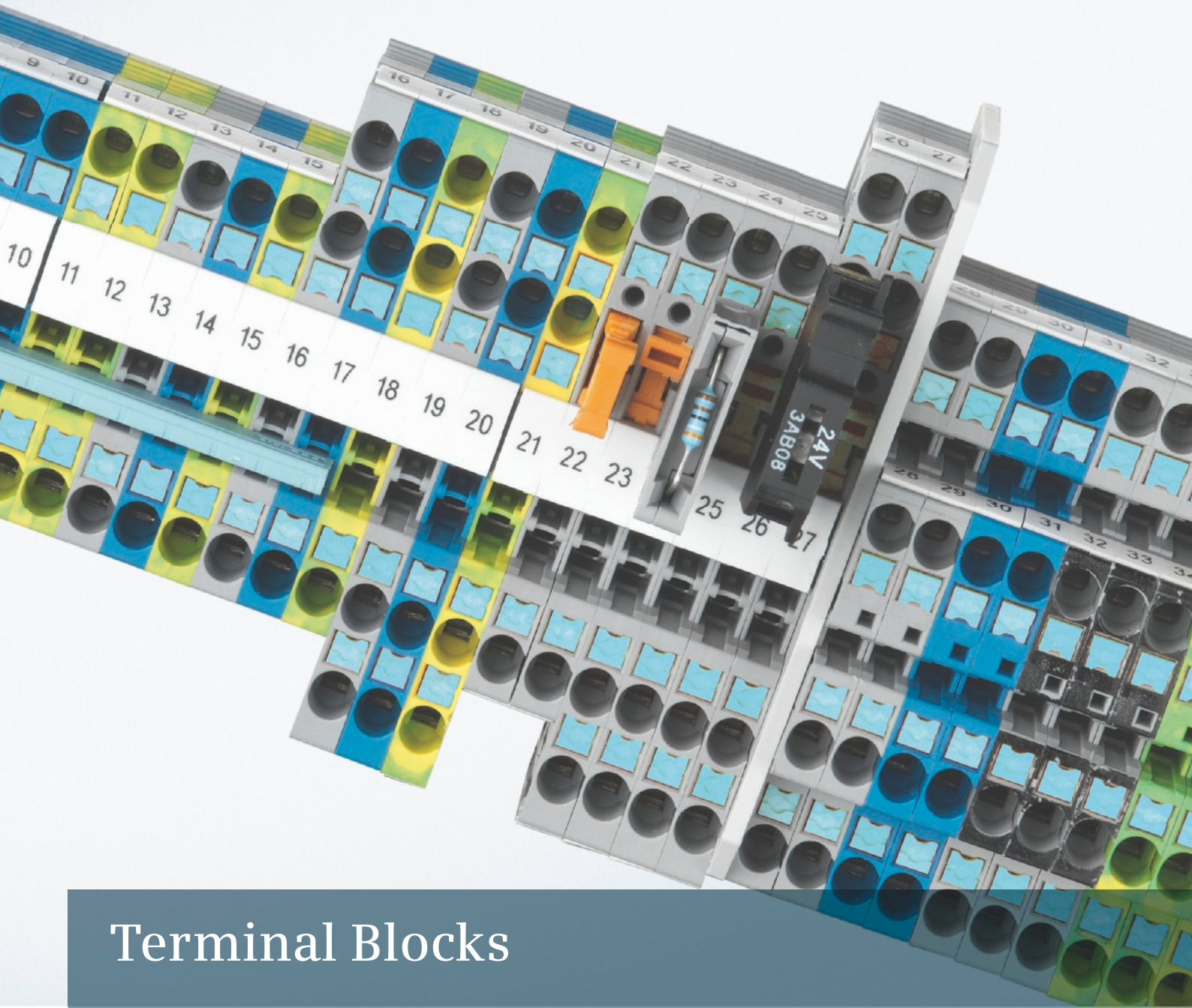


SIEMENS



Terminal Blocks

ALPHA FIX

Catalog
LV 52

Edition
2013

Answers for industry.

Related catalogs

Low-Voltage Power Distribution and Electrical Installation Technology

LV 10.1
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Mall

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iPo plug-in terminals • iPo installation terminals • Spring-loaded terminals • Combination plug-in terminals • Insulation displacement terminals • Screw terminals • Accessories for terminal blocks

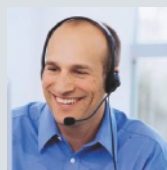
Busbar Trunking Systems, Overview • CD-K System – 25 A ... 40 A • BD 01 System – 40 A ... 160 A • BD2 System – 160 A ... 1250 A

All products of automation, drives and installation technology, including those in the catalogs listed above.

All products of automation, drives and installation technology, including those in the catalogs listed above.

All catalogs for low-voltage power distribution and electrical installation technology can be downloaded as PDF files.

Technical Support

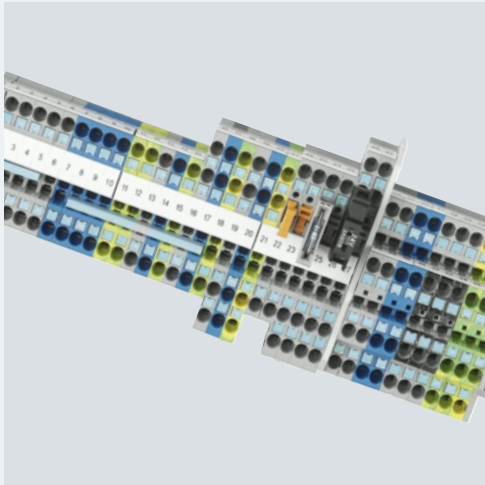


Expert advice on technical questions with a wide range of demand-optimized services for all our products and systems.

www.siemens.com/lowvoltage/technical-support

ALPHA FIX Terminal Blocks

Catalog LV 52 · 2013



VDE

VERBAND DER ELEKTROTECHNIK
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The products and systems listed in this catalog are developed and manufactured in accordance with a VDE-certified quality management system complying with EN ISO 9001:2000.

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The products contained in this catalog can also be found in the Interactive Catalog CA 01.

Order No.:

E86060-D4001-A510-D2-7600

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	8WH6 iPo Installation Terminals	3
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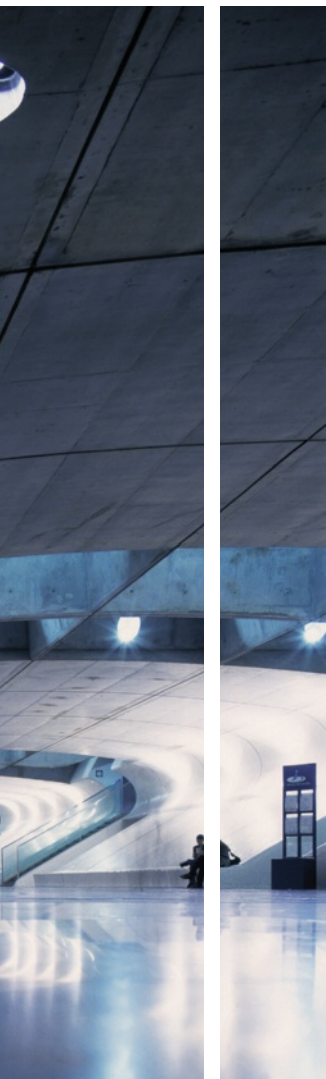


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Our portfolio includes switchboards, busbar trunking systems, distribution boards, protection, switching, measuring and monitoring devices, building management systems, switches and socket outlets. All over the world, the universality, modularity and intelligence of our components and systems give you innumerable benefits – all the time they are in use. Developed according to the respective international standards, we offer forward-looking design with innovative functions and ensure the highest quality standards world-wide.

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Get all the information you need – with just one click

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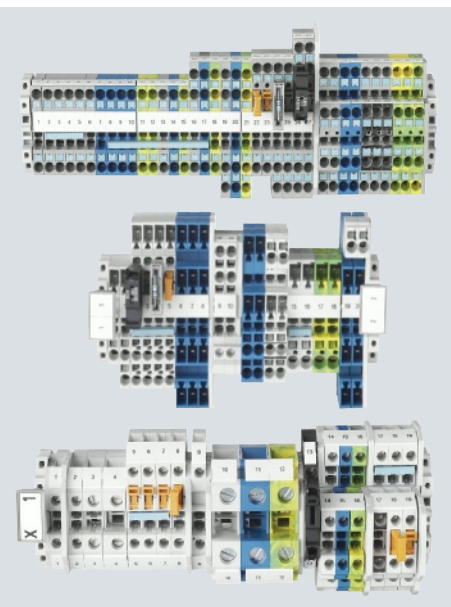
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Always at your service – every step of the way
 We offer comprehensive support, from planning to configuration to operation.

Introduction



8WH and 8WA Terminal Blocks

- 1/2 General data
- 1/3 Support rails/protective conductor busbars

8WH Terminal Blocks

- 1/4 8WH order selection

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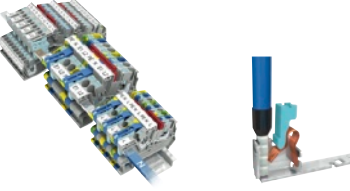
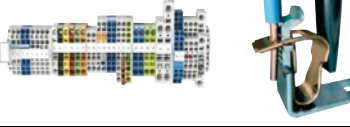

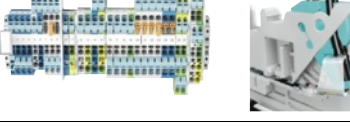





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Characteristic curves / Certificates

Introduction

8WH and 8WA Terminal Blocks

General data

Overview

	Connection system	Section	Special features
8WH terminals			
	8WH6 iPo plug-in terminals (iPo: in-Push-out)	2	The iPo connection method combines the advantages of spring-loaded and plug-in terminals - both rigid and flexible wires are easy to insert without the need for tools. Fast installation - with a minimum of effort and maximum contact stability.
	8WH6 iPo installation terminals	3	The iPo connection method combines the advantages of spring-loaded and plug-in terminals - both rigid and flexible wires are easy to insert without the need for tools. Fast installation - with a minimum of effort and maximum contact stability. Fast removal by simply pressing the unlatching button.
	8WH2 spring-loaded terminals	4	With the spring-loaded connection method, the tension spring exerts constant pressure on the conductor, which ensures excellent contact stability - even with applications subject to high levels of vibration. Fast removal by simply pressing the unlatching button.
	8WH5 combination plug-in terminals	5	Combination plug-in terminals are used where high availability is essential in the event of a fault. The contact system is able to withstand even extreme levels of vibration and both the terminal and the connector are fingerproof.
	8WH3 insulation displacement terminals	6	Thanks to the use of insulation displacement terminals, there is no need to strip the conductor. This ensures secure contact between the conductor and the connecting wire of the terminal.
	8WH1 screw terminals	7	The screw terminals have an impressively compact design and offer optimum handling. The elastic deformation capability of the terminal body prevents any creepage of the clamped conductor. Suitable for applications up to 1000 V DC.
	Accessories for 8WH	8	The 8WH accessories supplement the 8WH product range with the additional components required for installation.
8WA terminals			
	8WA1 screw terminals	9	The tried and tested screw terminals are insulated on both sides and enclosed at both ends. These terminals are extremely robust and can withstand high mechanical and thermal loads.
	8WA2 spring-loaded terminals • 8WA2 initiator/actuator terminals	10	Fast and cost-effective connection of signal transmitters
	Accessories for 8WA	11	The 8WA terminal block accessories supplement the 8WA product range with the additional components required for installation.

Rated short-time withstand current

Our terminals are able to withstand a rated short-time current corresponding to a current density of 120 A/mm² specific to the nominal cross-section for one second.

Support rails/protective conductor busbars

Overview

Support rail type							Excerpt from IEC 60947-7-2/EN 60947-7-2/VDE 0611 Part 3		
Width	Height	Thick-ness	Perforation type	Material	Surface	Rail profile	Short-circuit strength (Cu conductor)	Short-time withstand current, 1 s	Max. permissible thermal rated current with PEN function
mm	mm	mm					mm ² ¹⁾	kA	A
35	7.5	1.5	Non-perforated	Steel	Chromated	Standard mounting rail, acc. to EN 60 715 – 35 × 7.5	16	1.92	¹⁾
35	7.5	1.5	With holes	Steel	Chromated	Standard mounting rail, acc. to EN 60 715 – 35 × 7.5	16	1.92	²⁾
35	7.5	1.5	Non-perforated	Steel	Galvanized	Standard mounting rail, dimensions acc. to EN 60 715 – 35 × 7.5	16	1.92	²⁾
35	7.5	1.5	With holes	Steel	Galvanized	Standard mounting rail, dimensions acc. to EN 60 715 – 35 × 7.5	16	1.92	²⁾
35	7.5	1.5	Non-perforated	V2A high-grade steel	Chromated	Standard mounting rail, dimensions acc. to EN 60 715 – 35 × 7.5	16	1.92	²⁾
35	7.5	1.5	Non-perforated	Copper	Chromated	Standard mounting rail, dimensions acc. to EN 60 715 – 35 × 7.5	50	6.0	150
35	7.5	1.5	Non-perforated	Aluminum	Chromated	Standard mounting rail, dimensions acc. to EN 60 715 – 35 × 7.5	35	4.2	125
35	15	2.3	Non-perforated	Steel	Chromated	Standard mounting rail, acc. to EN 60 715 – 35 × 15	50	6.0	²⁾
35	15	1.5	Non-perforated	Steel	Chromated	Standard mounting rail, similar to EN 60 715 – 35 × 15	35	4.2	²⁾
35	15	1.5	With holes	Steel	Chromated	Standard mounting rail, similar to EN 60 715 – 35 × 15	35	4.2	²⁾
35	15	1.5	Non-perforated	Steel	Galvanized	Standard mounting rail, similar to EN 60 715 – 35 × 15	35	4.2	²⁾
35	15	1.5	With holes	Steel	Galvanized	Standard mounting rail, similar to EN 60 715 – 35 × 15	35	4.2	²⁾
35	15	1.5	Non-perforated	Copper	Chromated	Standard mounting rail, similar to EN 60 715 – 35 × 15	95	11.4	232
35	15	1.5	Non-perforated	Aluminum	Chromated	Standard mounting rail, similar to EN 60 715 – 35 × 15	70	8.4	192

¹⁾ Cross-sections calculated acc. to IEC 60439-1 / EN 60 439-1 / EN 60439-1 / VDE 0660 Part 500.

²⁾ Steel protective conductor busbars are not permissible for PEN function.

Introduction

8WH Terminal Blocks

8WH order selection

Terminal type	Connection type	Design	Number of terminals	Version	MLFB digits 1...9	MLFB digits 8...12
Installation terminals	iPo	Standard	2	L	8WH6 001-	
			4	L/L	8WH6 001-	
			4	L/N	8WH6 001-	
			5	PE/L/L	8WH6 001-	
			5	PE/L/N	8WH6 001-	
			5	PE/L/NT	8WH6 001-	
			5	PE/L/N isolating blade	8WH6 001-	
			5	PE/L/L isolating blade	8WH6 001-	
			5	PE/L/L through-type term. for isolat. term.	8WH6 001-	
			5	PE/L/L isolation	8WH6 001-	
	Spring-loaded terminals	Two-tier	4	L/PE	8WH2 020-	
			4	N/PE	8WH2 020-	
			4	N/L	8WH2 020-	
		Three-tier	6	PE/L/N	8WH2 030-	
			6	PE/L/L	8WH2 030-	

Order No., e.g.

8WH6 001-

4FF00

Insta terminal: Plug-in design · 5 connection points
2.5 mm² · Range of functions

8WH order selection

	1.5 mm ²			2.5 mm ²				4 mm ²		
	Through-type terminal, gray	Through-type terminal, blue	PE terminal, green/yellow	Through-type terminal, gray	Through-type terminal, blue	PE terminal	Terminals with range of functions	Through-type terminal, gray	Through-type terminal, blue	PE terminal, green/yellow
							4QF00			
							4DF00			
							4CF00			
							4HF00			
							4EF00			
							4FF00			
							4GF00			
							4NF00			
							4PF00			
							4MF00			
							4AF00			
							4BF00			
							4CF00			
							4EF00			
							4HF00			

Introduction

8WH Terminal Blocks

8WH order selection

Connection type	Terminals	Design	Number of terminals MLFB digits 1...7 MLFB digits 8...12	1.5 mm ²				2.5 mm ²								
				Through-type terminal, gray	Through-type terminal, colored	Through-type terminal, blue	PE terminal, green/yellow	Through-type terminal, gray	Through-type terminal, colored	Through-type terminal, blue	Instrument isolating terminal, blue	Isolating terminal, gray	Instrument isolating terminal, gray	PE terminal green/yellow		
Screw terminal	Standard		2	8WH1 000-					OAF00		OAF01					OCF07
		Two-tier	4	8WH1 020-					OAF00		OAF01					OCF07
		Two-tier	4	8WH1 025-					OAF00							
Spring-loaded terminal	Standard		2	8WH2 000-	OAE00	OAE0 ¹⁾	OAE01	OCE07	OAF00	OAF0 ¹⁾	OAF01		6AF00	6CF00		OCF07
			3	8WH2 003-	OAE00		OAE01	OCE07	OAF00		OAF01		6AF00	6CF00		OCF07
			4	8WH2 004-	OAE00		OAE01	OCE07	OAF00		OAF01	6CF01	6AF00	6CF00		OCF07
		Two-tier	4	8WH2 020-	OAE00		OAE01	OCE07	OAF00		OAF01					OCF07
			6	8WH2 023-					OAF00		OAF01					OCF07
		Two-tier 1-pole	6	8WH2 022-					OAF00							
			4	8WH2 025-	OAE00				OAF00		OAF01					
		Three-tier	6	8WH2 030-					OAF00		OAF01					
		Three-tier	6	8WH2 035-					OAF00							OCF07
		Four-tier	8	8WH2 040-					4LF00							
	Molded-case		2	8WH2 500-					OAF00		OAF01		6AF00	6CF00		OCF07
			3	8WH2 503-					OAF00		OAF01					OCF07
			4	8WH2 504-					OAF00		OAF01					OCF07
		Two-tier	4	8WH2 520-					OAF00		OAF01					OCF07
iPo	Standard		2	8WH6 000-					OAF00		OAF01					OCF07
			3	8WH6 003-					OAF00		OAF01					OCF07
			4	8WH6 004-					OAF00		OAF01					OCF07
		Two-tier	4	8WH6 020-					OAF00		OAF01					OCF07
Combination plugs	Standard		2	8WH5 000-					OAF00		OAF01					OCF07
			4	8WH5 004-					OAF00		OAF01					OCF07
Insulation displacement terminal technology (IDC)	Standard		2	8WH3 000-	OAE00		OAE01	OCE07	OAF00		OAF01					OCF07
			3	8WH3 003-	OAE00		OAE01	OCE07	OAF00		OAF01					OCF07
			4	8WH3 004-	OAE00		OAE01	OCE07								
		Two-tier	4	8WH3 020-	OAE00		OAE01	OCE07								

Order No., e.g.

8WH2 500- OAF00

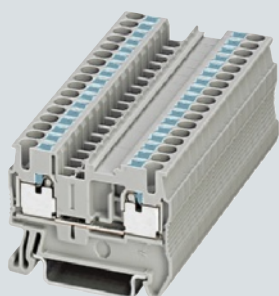
Standard terminal: Spring-loaded terminal · compact ·
2 connection points · 2.5 mm² · Through-type terminal, gray

Introduction

8WH Terminal Blocks

Notes

8WH6 iPo Plug-In Terminals



2/2	Introduction
2/3	General data
2/4	8WH6 through-type terminals
2/8	8WH6 fuse terminals
2/9	8WH6 isolating blade terminals
2/11	8WH6 isolating terminals
2/13	8WH6 two-tier terminals

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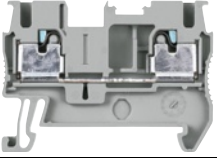

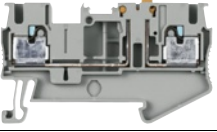
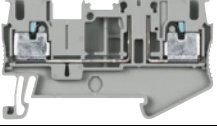
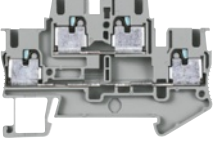
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8WH6 iPo Plug-In Terminals

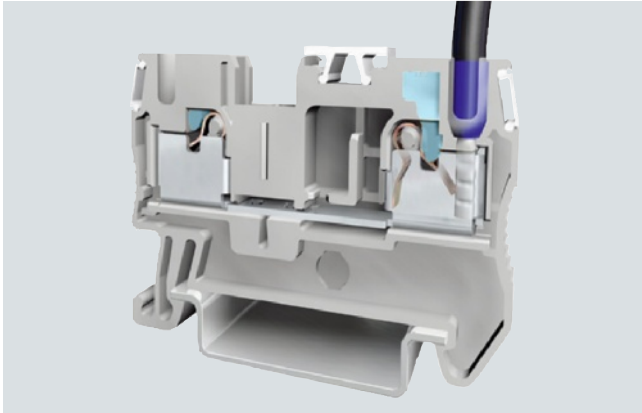
2

Introduction

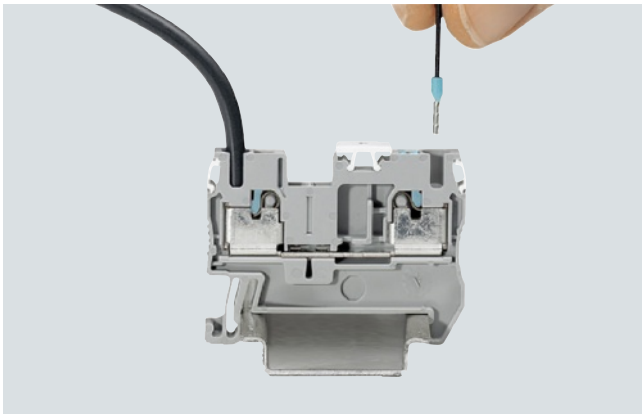
Overview

	Devices	Page	Function
	Through-type terminals	2/4	Connection of incoming and outgoing conductors
	Fuse terminals	2/8	Terminals which can be used to protect control circuits, for example
	Isolating blade terminals	2/9	Isolation of the circuit, e.g. for test purposes
	Isolating terminals	2/11	Isolation of the circuit, e.g. for test purposes
	Two-tier terminals	2/13	Compact form of the terminal blocks in which two connection wires can be installed

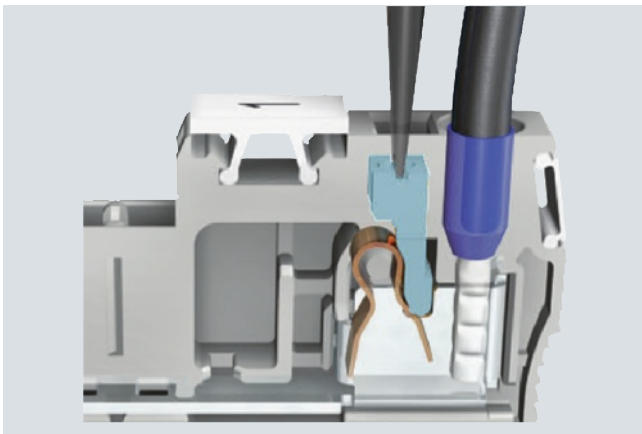
Overview



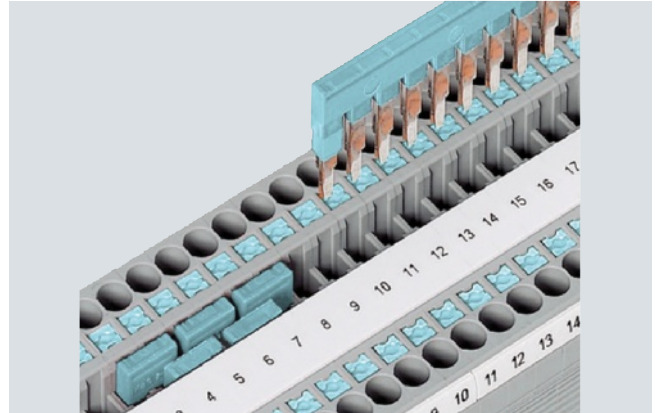
iPo connection method: Characterized by its simple and direct conductor connection, this series utilizes all the benefits of the 8WH system.



Super-light insertion: With an up to 50% lower insertion force, the iPo connection method permits easy and direct insertion of rigid and flexible conductors with end sleeves with a cross-section of more than 0.34 mm^2 .



Pusher button function: The actuation button is used to open the spring to either release the conductor or to connect smaller cross-sections from 0.14 mm^2 . It can be operated by any tool.



Easy bridging: The double bridge shaft supports the interconnection of any number of terminals using 2-pole jumpers. The 2-pole to 50-pole jumpers enable up to 50 terminals to be connected in a single step.

8WH6 iPo Plug-In Terminals

2

8WH6 through-type terminals

Overview



8WH6 through-type terminals are ideal for the direct tool-free wiring of conductors with end sleeve or rigid conductors. Easy insertion of flexible conductors with end sleeves upwards of 0.34 mm^2 . The actuation button can be used to open the clamping point with any type of screwdriver in order to unwire or wire small conductors. The compact design and front connection permit wiring in the narrowest of spaces. The double bridge shaft enables fast creation of an individual potential distribution and infeed, e.g. using a screw terminal.

A label can be snapped on to the middle of each terminal at the front. Further labels can also be mounted flat on the side of the terminals.

Technical specifications

	8WH6 000-0AF00 8WH6 000-0AF01	8WH6 003-0AF00 8WH6 003-0AF01	8WH6 004-0AF00 8WH6 004-0AF01
Dimensions			
• Width/length/height (NS 35/7.5) in mm	5.2 / 48.5 / 36.5	5.2 / 60.5 / 36.5	5.2 / 72 / 36.5
Max. electrical data			
• I_{max} in A	30	30 ¹⁾	
• U_{max} in V	800		
• Max. \varnothing in mm ²	0.14 ... 4		
• AWG	26-12		
Rating according to IEC 60947-7-1			
• Rated voltage in V (IEC / UL/CSA)	800 / 600		800 / --
• Rated current in A / cross-section in mm ²			
- IEC	24 / 2.5	24 ¹⁾ / 2.5	
- UL/CSA	20 / --		--
• Nominal cross-section in mm ²	2.5		
• AWG cross-section range (IEC / UL/CSA)	26-12 / 24-12		26-12 / --
Connection capacities			
• 1 conductor			
- Rigid in mm ²	0.14 ... 4		
- Flexible in mm ²	0.14 ... 2.5		
- Flexible end sleeve with/without plastic sleeve in mm ²	0.14 ... 2.5		
• Conductor cross-section, direct plug-in			
- Rigid in mm ²	0.34 ... 4		
- Flexible end sleeve with/without plastic sleeve in mm ²	0.34 ... 2.5		
General data			
• Stripped length in mm	10		
• Molded plastic	PA		
• Flammability class acc. to UL 94	V0		

¹⁾ The total current through all connected conductors must not exceed the max. load current.

8WH6 through-type terminals

	8WH6 000-0CF07	8WH6 003-0CF07	8WH6 004-0CF07
Dimensions			
• Width/length/height (NS 35/7.5) in mm	5.2 / 48.5 / 36.5	5.2 / 60.5 / 36.5	5.2 / 72 / 36.5
Max. electrical data			
• Max. Ø in mm ²	0.14 ... 4		
• AWG	26-12		
Rating according to IEC 60947-7-1			
• Nominal cross-section in mm ²	2.5		
• AWG cross-section range (IEC / UL/CSA)	26-12 / 24-12		26-12 / --
Connection capacities			
• 1 conductor			
- Rigid in mm ²	0.14 ... 4		
- Flexible end sleeve with/without plastic sleeve in mm ²	0.14 ... 2.5		
• Conductor cross-section, direct plug-in			
- Rigid in mm ²	0.34 ... 4		
- Flexible end sleeve with/without plastic sleeve in mm ²	0.34 ... 2.5		
General data			
• Stripped length in mm	10		
• Molded plastic	PA		
• Flammability Class acc. to UL 94	V0		

	8WH6 000-0AG00 8WH6 000-0AG01	8WH6 003-0AG00 8WH6 003-0AG01	8WH6 004-0AG00 8WH6 004-0AG01
Dimensions			
• Width/length/height in mm	6.2 / 56 / 36.5	6.2 / 66.5 / 36.5	6.2 / 77 / 36.5
Max. electrical data			
• I_{max} in A	38	38 ¹⁾	38 ¹⁾
• U_{max} in V	800	800	800
• Max. Ø in mm ²	0.2 ... 6	0.2 ... 6	0.2 ... 6
• AWG	24-10	24-10	24-10
Rating according to IEC 60947-7-1			
• Rated voltage in V (IEC / UL/CSA)	800 / 600	800 / 600	800 / 600
• Rated current in A / cross-section in mm ²			
- IEC	32 / 4	32 ¹⁾ / 4	32 ¹⁾ / 4
- UL/CSA	30 / --	30 / --	30 / --
• Nominal cross-section in mm ²	4	4	4
• AWG cross-section range (IEC / UL/CSA)	24-10 / 24-10	24-10 / 24-10	24-10 / 24-10
Connection capacities			
• 1 conductor			
- Rigid in mm ²	0.2 ... 6	0.2 ... 6	0.2 ... 6
- Flexible in mm ²	0.2 ... 4	0.2 ... 4	0.2 ... 4
- Flexible end sleeve with/without plastic sleeve in mm ²	0.25 ... 4	0.25 ... 4	0.25 ... 4
• Conductor cross-section, direct plug-in			
- Rigid in mm ²	0.5 ... 6	0.2 ... 6	0.5 ... 6
- Flexible end sleeve with/without plastic sleeve in mm ²	0.5 ... 4	0.5 ... 4	0.5 ... 4
General data			
• Stripped length in mm	12	12	12
• Molded plastic	PA	PA	PA
• Flammability Class acc. to UL 94	V0	V0	V0

1) The total current through all connected conductors must not exceed the max. load current.

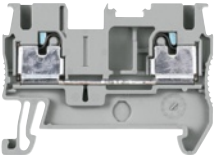
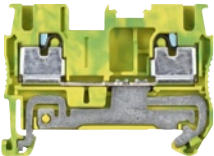
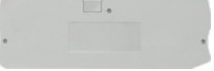


	8WH6 000-0CG07	8WH6 003-0CG07	8WH6 004-0CG07
Dimensions			
• Width/length/height (NS 35/7.5) in mm	6.2 / 56 / 36.5	6.2 / 66.5 / 36.5	6.2 / 77 / 36.5
Max. electrical data			
• Max. Ø in mm ²	0.2 ... 6	0.2 ... 6	0.2 ... 6
• AWG	24-10	24-10	24-10
Rating according to IEC 60947-7-1			
• Nominal cross-section in mm ²	4	4	4
• AWG cross-section range (IEC / UL/CSA)	24-10 / 24-10	24-10 / 24-10	24-10 / 24-10
Connection capacities			
• 1 conductor			
- Rigid in mm ²	0.2 ... 6	0.2 ... 6	0.2 ... 6
- Flexible end sleeve with/without plastic sleeve in mm ²	0.25 ... 4	0.2 ... 4	0.2 ... 4
• Conductor cross-section, direct plug-in			
- Rigid in mm ²	0.5 ... 6		
- Flexible end sleeve with/without plastic sleeve in mm ²	0.5 ... 4		
General data			
• Stripped length in mm	12	12	12
• Molded plastic	PA	PA	PA
• Flammability Class acc. to UL 94	V0	V0	V0

8WH6 iPo Plug-In Terminals











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8WH6 through-type terminals

Selection and ordering data

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
Terminal size 2.5 mm²						
 <p>8WH6 000-0AF00</p>	Through-type terminals, terminal size 2.5 mm² <ul style="list-style-type: none"> • C_{NUS} • Terminal width 5.2 mm • $I_{max} = 30$ A • $U_{max} = 800$ V • AWG 26-12 • Connection capacity, one conductor <ul style="list-style-type: none"> - Rigid 0.14 ... 4 mm² - Flexible 0.14 ... 2.5 mm² 					
	Versions <ul style="list-style-type: none"> • Two clamping points <ul style="list-style-type: none"> - Gray - Blue • Three clamping points <ul style="list-style-type: none"> - Gray - Blue • Four clamping points <ul style="list-style-type: none"> - Gray - Blue 		8WH6 000-0AF00 8WH6 000-0AF01	1 50 units 1 50 units	044 044	
 <p>8WH6 000-0CF07</p>	PE through-type terminals, terminal size 2.5 mm² <ul style="list-style-type: none"> • C_{NUS} • Terminal width 5.2 mm • AWG 26-12 • Connection capacity, one conductor <ul style="list-style-type: none"> - Rigid 0.14 ... 4 mm² - Flexible 0.14 ... 2.5 mm² • Green/yellow 					
	Versions <ul style="list-style-type: none"> • Two clamping points • Three clamping points • Four clamping points 		8WH6 000-0CF07 8WH6 003-0CF07 8WH6 004-0CF07	1 50 units 1 50 units 1 50 units	044 044 044	
Accessories						
	Covers, for terminal sizes 1.5 ... 2.5 mm² Width 2.2 mm					
	Versions <ul style="list-style-type: none"> • For two clamping points • For three clamping points • For four clamping points 		8WH9 000-1GA00 8WH9 000-2GA00 8WH9 000-4GA00	100 50 units 100 50 units 100 50 units	044 044 044	
 <p>8WH9 000-0GA00</p>	Cover segments, for terminal size 1.5 ... 2.5 mm² For covering multi-wire terminals when mounting two-wire terminals side-by-side		8WH9 000-0GA00			
			100 10 units 044			
 <p>8WH9 070-0AA00</p>	Compartment partitions, for terminal size 1.5 ... 4 mm² <ul style="list-style-type: none"> • For visual and electrical separation of terminal groups • 2 mm thick • Gray 					
	Versions <ul style="list-style-type: none"> • For two clamping points • For three clamping points • For four clamping points 		8WH9 070-0AA00 8WH9 070-0GA00 8WH9 070-0HA00	100 50 units 100 50 units 100 50 units	044 044 044	
Note For general accessories for 8WH terminal blocks, see chapter 8						

8WH6 through-type terminals

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
Terminal size 4 mm²						
						
8WH6 000-0AG00						
						
8WH6 003-0AG00						
						
8WH6 003-0AG01						
						
8WH6 004-0AG00						
						
8WH6 004-0AG01						
Through-type terminals, terminal size 4 mm²						
<ul style="list-style-type: none"> • C_{US} • Terminal width 6.2 mm • $I_{\text{max}} = 38 \text{ A}$ • $U_{\text{max}} = 800 \text{ V}$ • AWG 24-10 • Connection capacity, one conductor <ul style="list-style-type: none"> - Rigid 0.2 ... 6 mm² - Flexible 0.2 ... 4 mm² 						
Versions						
<ul style="list-style-type: none"> • Two clamping points <ul style="list-style-type: none"> - Gray - Blue • Three clamping points <ul style="list-style-type: none"> - Gray - Blue • Four clamping points <ul style="list-style-type: none"> - Gray - Blue 						
		8WH6 000-0AG00		1 50 units	044	
		8WH6 000-0AG01		1 50 units	044	
		8WH6 003-0AG00		1 50 units	044	
		8WH6 003-0AG01		1 50 units	044	
		8WH6 004-0AG00		1 50 units	044	
		8WH6 004-0AG01		1 50 units	044	
PE through-type terminal, terminal size 4 mm²						
						
8WH6 000-0CG07						
						
8WH6 003-0CG07						
						
8WH6 004-0CG07						
<ul style="list-style-type: none"> • C_{US} • Terminal width 6.2 mm • AWG 24-10 • Connection capacity, one conductor <ul style="list-style-type: none"> - Rigid 0.2 ... 6 mm² - Flexible 0.2 ... 4 mm² • Green/yellow 						
Versions						
<ul style="list-style-type: none"> • Two clamping points • Three clamping points • Four clamping points 						
		8WH6 000-0CG07		1 50 units	044	
		8WH6 003-0CG07		1 50 units	044	
		8WH6 004-0CG07		1 50 units	044	
Accessories						
Covers, for terminal size 4 mm²						
Width 2.2 mm						
Versions						
<ul style="list-style-type: none"> • For two clamping points • For three clamping points • For four clamping points 						
						
8WH9 003-1GA00		8WH9 003-1GA00		100 50 units	044	
		8WH9 003-2SA00		1 50 units	044	
		8WH9 003-4SA00		1 50 units	044	
Compartment partitions, for terminal size 1.5 ... 4 mm²						
<ul style="list-style-type: none"> • For visual and electrical separation of terminal groups • 2 mm thick • Gray 						
Versions						
<ul style="list-style-type: none"> • For two clamping points • For three clamping points • For four clamping points 						
						
8WH9 070-0AA00		8WH9 070-0AA00		100 50 units	044	
		8WH9 070-0GA00		100 50 units	044	
		8WH9 070-0HA00		100 50 units	044	

Note:

For general accessories for 8WH terminal blocks, [see chapter 8](#).

8WH6 iPo Plug-In Terminals

2

8WH6 fuse terminals

Overview



The fuse terminals are characterized by their compact design and have the same contour as through-type terminals and function terminals. Double bridging is possible. Versions with and without LED display to signal a fuse.







Fuse terminals can be inscribed at their clamping points with flat labels.

Technical specifications

	8WH6 000-1GG08	8WH6 000-1KG38	8WH6 000-1MG88
Dimensions			
• Width/length/height (NS 35/7.5) in mm	6.2 /56 / 62.5		
Max. electrical data			
• I_{max} in A	6.3 ¹⁾		
• U_{max} in V	500		
• Max. Ø in mm ²	0.2 ... 6		
• AWG	24-10		
Rating according to IEC 60947-7-1			
• Rated voltage in V (IEC / UL/CSA)	500 / 300		
• Rated current in A / cross-section in mm ²			
- IEC	6.3/ 1		
- UL/CSA	6.3 / --		
• Nominal cross-section in mm ²	4		
• AWG cross-section range (IEC / UL/CSA)	24-10 / 24-10		
Connection capacities			
• 1 conductor			
- Rigid in mm ²	0.2 ... 6		
- Flexible in mm ²	0.2 ... 4		
- Flexible end sleeve with/without plastic sleeve in mm ²	0.25 ... 4		
• Conductor cross-section, direct plug-in			
- Rigid in mm ²	0.5 ... 6		
- Flexible end sleeve with/without plastic sleeve in mm ²	0.5 ... 4		
General data			
• Stripped length in mm	12		
• Molded plastic	PA		
• Flammability class acc. to UL 94	V0		

¹⁾ The total current through all connected conductors must not exceed the max. load current.

Selection and ordering data

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
Terminal size 4 mm²						
 8WH6 000-1GG08	Fuse terminals, terminal size 4 mm², for 5 x 20 mm G fuse links <ul style="list-style-type: none"> •    • Terminal width 6.2 mm • $I_{max} = 6.3$ A • $U_{max} = 500$ V • AWG 24-10 • Connection capacity, one conductor <ul style="list-style-type: none"> - Rigid 0.2 ... 4 mm² - Flexible 0.2 ... 4 mm² • Black 					
	Versions <ul style="list-style-type: none"> • Without LED • With LED 10 ... 30 V AC/DC • With LED 110 ... 250 V AC/DC 			8WH6 000-1GG08	1 50 units	044
				8WH6 000-1KG38	1 50 units	044
				8WH6 000-1MG88	1 50 units	044
Accessories						
 8WA9 003-1GA00	Covers, for terminal size 4 mm² <ul style="list-style-type: none"> • For two clamping points • Width 2.2 mm 		8WH9 003-1GA00	100 50 units	044	
	Note: For general accessories for 8WH terminal blocks, see chapter 8.					

Overview



Through-type terminals with isolating blade capability are the most commonly used terminal types in measuring and control technology. Key features of the 8WH6 isolating blade terminals are the slim design of only 5.2 mm and their high current-carrying capacity. Convenient testing is made possible by the integral double function shaft located on one side of the isolating point and the integrated test contact located on the other. Standard connecting combs allow easy execution of all potential-distribution tasks. Three and four-wire terminals up to 2.5 mm² are available for the multi-conductor connection.

A label can be snapped on to the middle of each terminal at the front. Further labels can also be mounted flat on the side of the terminals.

Technical specifications

	8WH6 000-6AF00	8WH6 003-6AF00	8WH6 004-6AF00
Dimensions			
• Width/length/height (NS 35/7.5) in mm	5.2 / 60.5 / 36.5	5.2 / 74 / 36.5	5.2 / 84 / 36.5
Max. electrical data			
• I_{max} in A	20	20 ¹⁾	
• U_{max} in V	400		
• Max. Ø in mm ²	0.14 ... 4		
• AWG	26-12		
Rating according to IEC 60947-7-1			
• Rated voltage in V (IEC)	400		
• Rated current in A / cross-section in mm ² (IEC)	20 / 2.5	20 ¹⁾ / 2.5	
• Nominal cross-section in mm ²	2.5		
• AWG cross-section range (IEC)	26-12		
Connection capacities			
• 1 conductor			
- Rigid in mm ²	0.14 ... 4		
- Flexible in mm ²	0.14 ... 2.5		
- Flexible end sleeve with/without plastic sleeve in mm ²	0.14 ... 2.5		
• Conductor cross-section, direct plug-in			
- Rigid in mm ²	0.34 ... 4		
- Flexible end sleeve with/without plastic sleeve in mm ²	0.34 ... 2.5		
General data			
• Stripped length in mm	10		
• Molded plastic	PA		
• Flammability class acc. to UL 94	V0		

1) The total current through all connected conductors must not exceed the max. load current.

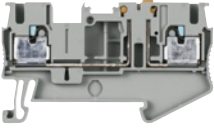
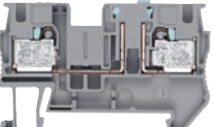



	8WH6 000-6AG00
Dimensions	
• Width/length/height (NS 35/7.5) in mm	6.2 / 54 / 36.5
Max. electrical data	
• I_{max} in A	20
• U_{max} in V	400
• Max. Ø in mm ²	0.2 ... 6
• AWG	24-10
Rating according to IEC 60947-7-1	
• Rated voltage in V (IEC / UL/CSA)	400 / 300
• Rated current in A / cross-section in mm ²	
- IEC	20 / 2.5
- UL/CSA	20 / --
• Nominal cross-section in mm ²	4
• AWG cross-section range (IEC / UL/CSA)	24-10 / 24-10
Connection capacities	
• 1 conductor	
- Rigid in mm ²	0.2 ... 6
- Flexible in mm ²	0.2 ... 4
- Flexible end sleeve with/without plastic sleeve in mm ²	0.25 ... 4
• Conductor cross-section, direct plug-in	
- Rigid in mm ²	0.5 ... 6
- Flexible end sleeve with/without plastic sleeve in mm ²	0.5 ... 4
General data	
• Stripped length in mm	12
• Molded plastic	PA
• Flammability class acc. to UL 94	V0

8WH6 iPo Plug-In Terminals

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8WH6 isolating blade terminals

Selection and ordering data

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG			
Terminal size 2.5 mm²									
 <p>8WH6 000-6AF00</p>	Isolating blade terminals, terminal size 2.5 mm² <ul style="list-style-type: none"> Terminal width 5.2 mm $I_{\max} = 20$ A $U_{\max} = 400$ V AWG 26-12 Connection capacity, one conductor <ul style="list-style-type: none"> Rigid 0.14 ... 4 mm² Flexible 0.14 ... 2.5 mm² 								
	Versions <ul style="list-style-type: none"> Two clamping points Three clamping points Four clamping points 								
	8WH6 000-6AF00						1	50 units	044
	8WH6 003-6AF00						1	50 units	044
8WH6 004-6AF00		1	50 units	044					
Terminal size 4 mm²									
 <p>8WH6 000-6CG00</p>	Isolating blade terminals, terminal size 4 mm² <ul style="list-style-type: none"> With 2 clamping points Terminal width 6.2 mm $I_{\max} = 20$ A $U_{\max} = 400$ V AWG 24-10 Connection capacity, one conductor <ul style="list-style-type: none"> Rigid 0.2 ... 6 mm² Flexible 0.2 ... 4 mm² Connection capacity, two conductors <ul style="list-style-type: none"> Rigid 0.5 ... 6 mm² 		8WH6 000-6CG00						
							1	50 units	044
Accessories									
 <p>8WH9 000-3SC00</p>	Covers, for terminal size 2.5 mm² Width 2.2 mm		8WH9 000-3SC00						
	<ul style="list-style-type: none"> For two clamping points For three clamping points For four clamping points 						100	50 units	044
	8WH9 000-3SD00						100	50 units	044
8WH9 000-5GA00		100	50 units	044					
 <p>8WA9 003-1GA00</p>	Covers, for terminal size 4 mm² <ul style="list-style-type: none"> For two clamping points Width 2.2 mm 		8WH9 003-1GA00						
							100	50 units	044
 <p>8WH9 070-0AA00</p>	Compartment partitions, for terminal size 1.5 ... 4 mm² <ul style="list-style-type: none"> For two clamping points For visual and electrical separation of terminal groups 2 mm thick Gray 		8WH9 070-0AA00						
							100	50 units	044

Note:

For general accessories for 8WH terminal blocks, [see chapter 8](#).

Overview



8WH6 isolating terminals in iPo connection technology are available for special wiring tasks. With the same contour as the isolating blade terminals, 8WH6 isolating terminals are fitted with a universal plug-in zone in the middle of the terminal. Numerous wiring tasks can be performed on a terminal width of 5.2 mm by integrating the isolated through-type connector, the isolating plug, the component connector or the fused plug.

A label can be snapped on to the middle of each terminal at the front. Further labels can also be mounted flat on the side of the terminals.

Technical specifications

	8WH6 000-6CF00	8WH6 003-6CF00	8WH6 004-6CF00
Dimensions			
• Width/length/height (NS 35/7.5) in mm	5.2 / 60.5 / 36.5	5.2 / 74 / 36.5	5.2 / 84 / 36.5
Max. electrical data			
• I_{max} in A	20	20 ¹⁾	
• U_{max} in V	400 ²⁾		
• Max. Ø in mm ²	0.14 ... 4		
• AWG	26-12		
Rating according to IEC 60947-7-1			
• Rated voltage in V (IEC)	400 ²⁾		
• Rated current in A / cross-section in mm ² (IEC)	20 / 2.5	20 ¹⁾ / 2.5	
• Nominal cross-section in mm ² (IEC)	2.5		
• AWG cross-section range (IEC)	26-12		
Connection capacities			
• 1 conductor			
- Rigid in mm ²	0.14 ... 4		
- Flexible in mm ²	0.14 ... 2.5		
- Flexible end sleeve with/without plastic sleeve in mm ²	0.14 ... 2.5		
• Conductor cross-section, direct plug-in			
- Rigid in mm ²	0.34 ... 4		
- Flexible end sleeve with/without plastic sleeve in mm ²	0.34 ... 2.5		
General data			
• Stripped length in mm	10		
• Molded plastic	PA		
• Flammability class acc. to UL 94	V0		
	8WH6 000-6CG00		
Dimensions			
• Width/length/height (NS 35/7.5) in mm	6.2 / 56 / 36.5		
Max. electrical data			
• I_{max} in A	20		
• U_{max} in V	400 ²⁾		
• Max. Ø in mm ²	0.2 ... 6		
• AWG	24-10		
Rating according to IEC 60947-7-1			
• Rated voltage in V (IEC / UL/CSA)	400 / 300		
• Rated current in A / cross-section in mm ²			
- IEC	20 / 2.5		
- UL/CSA	20 / --		
• Nominal cross-section in mm ²	4		
• AWG cross-section range (IEC / UL/CSA)	24-10 / 24-10		
Connection capacities			
• 1 conductor			
- Rigid in mm ²	0.2 ... 6		
- Flexible in mm ²	0.25 ... 4		
- Flexible end sleeve with/without plastic sleeve in mm ²	0.25 ... 4		
• Conductor cross-section, direct plug-in			
- Rigid in mm ²	0.5 ... 6		
- Flexible end sleeve with/without plastic sleeve in mm ²	0.5 ... 4		
General data			
• Stripped length in mm	12		
• Molded plastic	PA		
• Flammability class acc. to UL 94	V0		

¹⁾ The total current through all connected conductors must not exceed the max. load current.

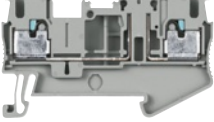
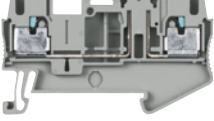

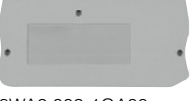


²⁾ Current and voltage are determined by the fitted plug.

8WH6 iPo Plug-In Terminals

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8WH6 isolating terminals

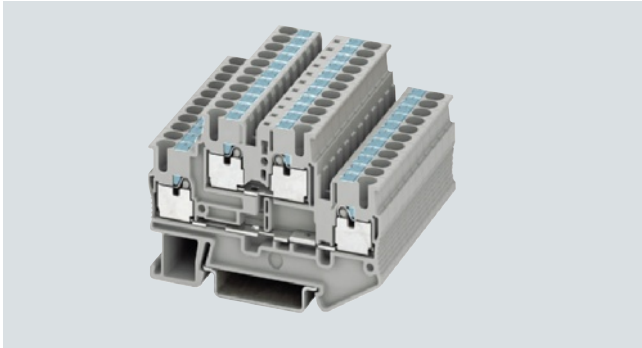
Selection and ordering data

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
Terminal size 2.5 mm²						
 <p>8WH6 000-6CF00</p>	Isolating terminals, terminal size 2.5 mm² <ul style="list-style-type: none"> Terminal width 5.2 mm $I_{\max} = 20 \text{ A}$ $U_{\max} = 400 \text{ V}$ AWG 26-12 Connection capacity, one conductor <ul style="list-style-type: none"> Rigid 0.14 ... 4 mm² Flexible 0.14 ... 2.5 mm² 					
	Versions <ul style="list-style-type: none"> Two clamping points Three clamping points Four clamping points 					
		8WH6 000-6CF00		1	50 units	044
		8WH6 003-6CF00		1	50 units	044
		8WH6 004-6CF00		1	50 units	044
Terminal size 4 mm²						
 <p>8WH6 000-6AG00</p>	Isolating terminals, terminal size 4 mm² <ul style="list-style-type: none"> With two clamping points Terminal width 6.2 mm $I_{\max} = 20 \text{ A}$ $U_{\max} = 400 \text{ V}$ AWG 24-10 Connection capacity, one conductor <ul style="list-style-type: none"> Rigid 0.2 ... 6 mm² Flexible 0.2 ... 4 mm² 					
		8WH6 000-6AG00		1	50 units	044
Accessories						
 <p>8WH9 000-3SC00</p>	Covers, for terminal size 2.5 mm² Width 2.2 mm <ul style="list-style-type: none"> For two clamping points For three clamping points For four clamping points 					
		8WH9 000-3SC00		100	50 units	044
		8WH9 000-3SD00		100	50 units	044
		8WH9 000-5GA00		100	50 units	044
 <p>8WH9 003-1GA00</p>	Covers, for terminal size 4 mm² Width 2.2 mm <ul style="list-style-type: none"> For two clamping points Width 2.2 mm 					
		8WH9 003-1GA00		100	50 units	044
 <p>8WH9 070-0AA00</p>	Compartment partitions, for terminal size 1.5 ... 4 mm² <ul style="list-style-type: none"> For two clamping points For visual and electrical separation of terminal groups 2 mm thick Gray 					
		8WH9 070-0AA00		100	50 units	044
 <p>8WH9 070-0GA00</p>	Compartment partitions, for terminal size 1.5 ... 4 mm² <ul style="list-style-type: none"> For three clamping points For visual and electrical separation of terminal groups 2 mm thick Gray 					
		8WH9 070-0GA00		100	50 units	044

Note:

For general accessories for 8WH terminal blocks, [see chapter 8](#).

Overview



With the two voltage levels routed through two tiers, the 8WH6 two-tier terminals require 50% less space than equivalent single-tier terminals. To implement a wide range of wiring tasks, connecting combs can be fitted to both tiers of the two-tier terminal series. Facilities for inscription are provided at each clamping point.

Two-tier terminals with equipotential bonding for the upper and lower tiers are also available.

With the same contour as 8WH6 two-tier terminals, 8WH6 two-tier PE terminals round off the product range. Perfect mechanical and electrical contact with the support rail is provided by simply snapping the terminals onto the rail. 8WH6 PE two-tier terminals comply with all the requirements of IEC 60947-7-2. These include in particular:

- Low contact resistance
- Stainless clamping points
- Green-yellow enclosure
- Additional inscription options.

A label can be mounted flat at each clamping point by simply snapping it on.

Technical specifications

	8WH6 020-0AF00 8WH6 020-0AF01	8WH6 025-0AF00	8WH6 020-0CF07	8WH6 020-0AG00 8WH6 020-0AG01	8WH6 025-0AG00	8WH6 020-0CG07
Dimensions • Width/length/height (NS 35/7.5) in mm	5.2 / 68 / 47.5	5.2 / 78 / 55		6.2 / 83.5 / 47.5		
Max. electrical data • I_{max} in A • U_{max} in V • Max. Ø in mm ² • AWG	26 500 0.14 ... 4 26-12	26 ¹⁾	-- --	32 500 0.2 ... 6 24-10		-- --
Rating according to IEC 60947-7-1 • Rated voltage in V (IEC) • Rated current in A / cross-section in mm ² - IEC - UL/CSA • Nominal cross-section in mm ² (IEC) • AWG cross-section range (IEC)	500 20 / 2.5 2.5 26-12	20 ¹⁾ / 2.5	-- -- / --	500 / 600 30 / -- 4 24-10 / 24-10		-- -- / -- -- / --
Connection capacities • 1 conductor - Rigid in mm ² - Flexible in mm ² - Flexible end sleeve with/without plastic sleeve in mm ² • Conductor cross-section, direct plug-in - Rigid in mm ² - Flexible end sleeve with/without plastic sleeve in mm ²	0.14 ... 4 0.14 ... 2.5 0.14 ... 2.5 0.34 ... 4 0.34 ... 2.5			0.2 ... 6 0.2 ... 4 0.25 ... 4 0.5 ... 6 0.5 ... 4		
General data • Stripped length in mm • Molded plastic • Flammability class acc. to UL 94	10 PA V0			12 PA V0		

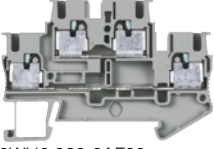
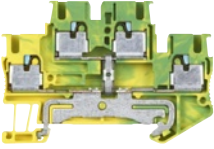


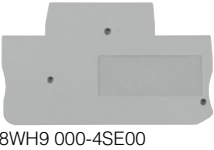
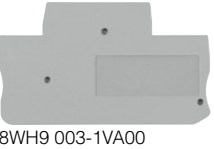

¹⁾ The total current through all connected conductors must not exceed the max. load current.

8WH6 iPo Plug-In Terminals

2

8WH6 two-tier terminals

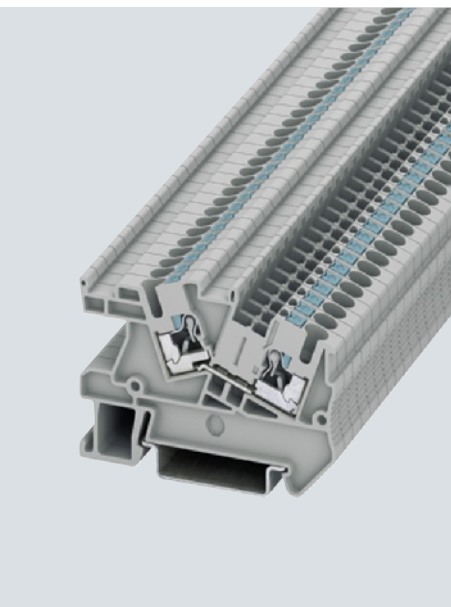
Selection and ordering data

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
Terminal size 2.5 mm²						
 8WH6 020-0AF00	Two-tier terminals, terminal size 2.5 mm² <ul style="list-style-type: none"> Terminal width 5.2 mm $I_{\max} = 26 \text{ A}$ $U_{\max} = 500 \text{ V}$ AWG 26-12 Connection capacity, one conductor <ul style="list-style-type: none"> Rigid 0.14 ... 4 mm² Flexible 0.14 ... 2.5 mm² 					
	Versions <ul style="list-style-type: none"> Without equipotential bonding <ul style="list-style-type: none"> Gray Blue With equipotential bonding 					
	8WH6 020-0AF00 8WH6 020-0AF01 8WH6 025-0AF00	1 50 units 044 1 50 units 044 1 50 units 044				
 8WH6 020-0CF07	PE two-tier terminals, terminal size 2.5 mm² <ul style="list-style-type: none"> Terminal width 5.2 mm AWG 26-12 Connection capacity, one conductor <ul style="list-style-type: none"> Rigid 0.14 ... 4 mm² Flexible 0.14 ... 2.5 mm² Green/yellow 					
	Note Bridging the terminal is only possible in the top level (central).					
Terminal size 4 mm²						
 8WH6 025-0AG00	Two-tier terminals, terminal size 4 mm² <ul style="list-style-type: none"> Terminal width 6.2 mm $I_{\max} = 32 \text{ A}$ $U_{\max} = 500 \text{ V}$ AWG 24-10 Connection capacity, one conductor <ul style="list-style-type: none"> Rigid 0.2 ... 6 mm² Flexible 0.2 ... 4 mm² 					
	Versions <ul style="list-style-type: none"> Without equipotential bonding <ul style="list-style-type: none"> Gray Blue With equipotential bonding 					
	8WH6 020-0AG00 8WH6 020-0AG01 8WH6 025-0AG00	1 50 units 044 1 50 units 044 1 50 units 044				
 8WH6 020-0CG07	PE two-tier terminals, terminal size 4 mm² <ul style="list-style-type: none"> Terminal width 6.2 mm AWG 24-10 Connection capacity, one conductor <ul style="list-style-type: none"> Rigid 0.2 ... 6 mm² Flexible 0.2 ... 4 mm² Green/yellow 					
	Note Bridging the terminal is only possible in the top level (central).					
Accessories						
 8WH9 000-4SE00	Covers, for terminal sizes 1.5 ... 2.5 mm² <ul style="list-style-type: none"> Width 2.2 mm Gray 					
	8WH9 000-4SE00					
 8WH9 003-1VA00	Covers, for terminal sizes 1.5 ... 4 mm² <ul style="list-style-type: none"> For two clamping points Width 2.2 mm 					
	8WH9 003-1VA00					
 8WH9 070-0BA00	Compartment partitions, for terminal size 1.5 ... 4 mm² <ul style="list-style-type: none"> For visual and electrical separation of terminal groups 2 mm thick Gray 					
	8WH9 070-0BA00					

Note:

For general accessories for 8WH terminal blocks, [see chapter 8](#).

8WH6 iPo Installation Terminals



3/2	Introduction
3/4	8WH through-type terminals
3/6	8WH through-type screw terminals
3/8	8WH N-conductor isolating terminals
3/10	8WH N-conductor isolating screw terminals
3/12	8WH installation terminals

3

More technical product information:

Service&Support Portal:

www.siemens.com/lowvoltage/technical-support

→ Product List:
Technical specifications

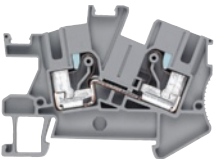

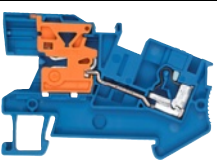
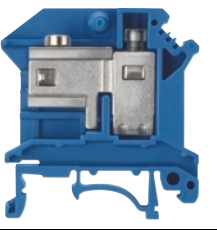

→ Entry List:
Updates / Downloads / FAQ /
Manuals / Operating instructions /
Characteristic curves / Certificates

8WH6 iPo Installation Terminals

Introduction

3

Overview

	Devices	Page	Function
	8WH through-type terminals	3/4	Connection of incoming and outgoing conductors up to 6 mm ²
	8WH through-type screw terminals	3/6	Connection of incoming and outgoing conductors up to 35 mm ² with screw terminals
	8WH N-conductor isolating terminals	3/8	Terminal blocks up to 6 mm ² and connection of an N-busbar 10 mm × 3 mm
	8WH N-conductor isolating screw terminals	3/10	Terminal blocks with screw connection up to 35 mm ² and connection of an N-busbar 10 mm × 3 mm
	8WH installation terminals	3/12	Terminal blocks for connection of an N-busbar 10 mm × 3 mm. These terminals offer up to three terminal functions in a single enclosure and are optimized for distribution board applications in installation technology.

Conductor cross-section	Terminal type ¹⁾	Terminal type → Design → No. of clamping points → Order No. (digits 1 ... 7) →	iPo technology	Screw terminals	iPo technology	Order No. (digits 8 ... 12)	
			Standard	Standard	Insta		
		Color	2 8WH6 000	2 8WH1 001	8WH6 001		
2.5 mm ²	Through-type	Gray	✓	--	--	0AF00	
		Blue	✓	--	--	0AF01	
	N-conductor isolating	Blue	✓	--	--	0BF00	
	PE	Green/yellow	✓	--	--	0CF07	
	Insta	L	Gray	--	--	✓	4QF00
		L/L		--	--	✓	4DF00
		L/N		--	--	✓	4CF00
		PE/L/L		--	--	✓	4HF00
		PE/L/N		--	--	✓	4EF00
		PE/L/NT		--	--	✓	4FF00
PE/L/N isolating blade			--	--	✓	4GF00	
PE/L/L isolating blade			--	--	✓	4NF00	
4 mm ²	Through-type	Gray	✓	--	--	0AG00	
		Blue	✓	--	--	0AG01	
	N-conductor isolating	Gray	✓	--	--	0BG00	
	PE	Green/yellow	✓	--	--	0CG07	
6 mm ²	Through-type	Gray	✓	--	--	0AH00	
		Blue	✓	--	--	0AH01	
	N-conductor isolating	Blue	✓	--	--	0BH00	
	PE	Green/yellow	✓	--	--	0CH07	
10 mm ²	N-conductor isolating	Blue	--	✓	--	0BJ01	
16 mm ²	Through-type	Blue	--	✓	--	0AK01	
		Gray	--	✓	--	0AK00	
	N-conductor isolating	Blue	--	✓	--	0BK01	
	PE	Green/yellow	--	✓	--	0CK07	
35 mm ²	Through-type	Gray	--	✓	--	0AM00	
		Blue	--	✓	--	0AM01	
	N-conductor isolating	Blue	--	✓	--	0BM01	
	PE	Green/yellow	--	✓	--	0CM07	

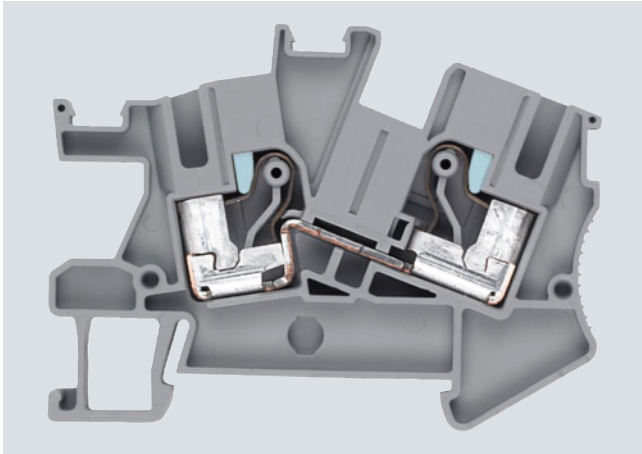
1) Only the main terminal types are listed here. You will find further versions on the following pages.

8WH6 iPo Installation Terminals

8WH through-type terminals

3

Overview



All types of conductors can be used with 8WH6 iPo technology. Rigid conductors and crimped flexible conductors are plugged directly into the terminal.

Flexible, untreated conductors can be connected using a screw-driver.

These terminals can be used interconnected with the N-busbar 10 × 3 mm.

A label can be snapped on to the middle of each terminal at the front. Labels can also be mounted flat on the clamping points of the terminals.

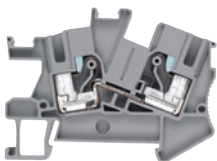
Technical specifications

		8WH6 001-0AF00 8WH6 001-0AF00	8WH6 001-OCF07	8WH6 001-0AG00 8WH6 001-0AG01	8WH6 000-OCG07	8WH6 001-0AH00 8WH6 001-0AH01	8WH6 001-0AH07
Cross-section	mm ²	2.5	2.5 (PE)	4	4 (PE)	6	6 (PE)
Dimensions							
• Width/length/width of cover	mm	5.2 / 59.5 / 2.2		6.2 / 66 / 2.2		8.2 / 66 / 2.2	
• Height (TS 35/7.5 / TS 35/15)	mm	43 / 50.5		46.3 / 53.8		50 / 57.5	
Rated current I_n / cross-section	A/ mm ²	24 / 2.5		32 / 4		41 / 6	
Max. load current I_{max} / cross-section	A/ mm ²	24 / 4		32 / 6		50/10	
Rated voltage U_n	V	800		800		800	
Connection capacities							
• Rigid	mm ²	0.14 ... 4		0.2 ... 6		0.5 ... 10	
• Flexible with end sleeve	mm ²	0.25 ... 2.5		0.25 ... 4		0.5 ... 6	
Stripped length	mm	10		12		12	
Molded plastic type		PA					
Flammability class acc. to UL 94		V0					
Support rails/protective conductor busbars		--		See section "Support rails" on page 1/3		See section "Support rails" on page 1/3	

Selection and ordering data

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
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Terminal size 2.5 mm²



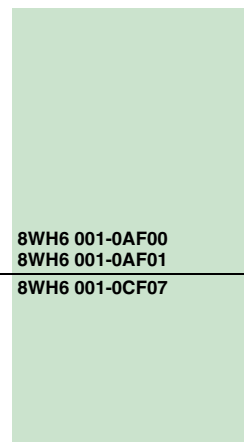
8WH6 001-0AF00

Through-type terminals, terminal size 2.5 mm², acc. to IEC 60 947-7-1

- Terminal width 5.2 mm, terminal length 59.5 mm
- Terminal height (NS 35/7.5) 43 mm
- Max. load current $I_{max} = 24$ A
- Rated voltage $U_n = 800$ V
- Rigid 0.14 ... 4 mm²
- Flexible with end sleeve 0.14 ... 2.5 mm²
- AWG 26-12

Versions

- Gray
- Blue



8WH6 001-0AF00
8WH6 001-0AF01

1 50 units 044
1 50 units 044

8WH6 001-OCF07

1 50 units 044



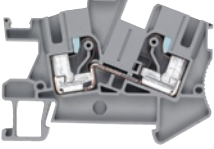

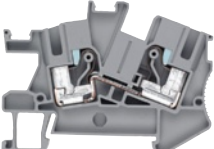



8WH6 001-OCF07

PE through-type terminals, terminal size 2.5 mm², IEC 60 947-7-2

- Green/yellow
- Terminal width 5.2 mm, terminal length 59.5 mm
- Terminal height 43 mm
- Cross-section max. 4 mm²
- Rigid 0.2 ... 4 mm²
- Flexible with end sleeve 0.2 ... 2.5 mm²
- AWG 24-12

8WH through-type terminals

3

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
Terminal size 4 mm²						
		Through-type terminals, terminal size 4 mm², acc. to IEC 60947-7-1				
8WH6 001-0AG00		<ul style="list-style-type: none"> Terminal width 6.2 mm Terminal length 66 mm Terminal height 46.3 mm Max. load current $I_{max} = 32$ A Rated voltage $U_n = 800$ V Rigid 0.2 ... 6 mm² Flexible with end sleeve 0.2 ... 4 mm² AWG 24-10 				
Versions						
<ul style="list-style-type: none"> Gray Blue 						
		8WH6 001-0AG00		1	50 units	044
		8WH6 001-0AG01		1	50 units	044
		PE through-type terminals, terminal size 4 mm², acc. to IEC 60947-7-2				
8WH6 001-0AG07		<ul style="list-style-type: none"> Green/yellow Terminal width 6.2 mm Terminal length 66 mm Terminal height 46.3 mm Rigid 0.2 ... 6 mm² Flexible with end sleeve 0.2 ... 4 mm² AWG 24-10 				
		8WH6 001-0CG07		1	50 units	044
Terminal size 6 mm²						
		Through-type terminals, terminal size 6 mm², acc. to IEC 60947-7-1				
8WH6 001-0AH00		<ul style="list-style-type: none"> Terminal width 8.2 mm Terminal length 66 mm Terminal height 50 mm Max. load current $I_{max} = 41$ A Rated voltage $U_n = 800$ V Rigid 0.5 ... 10 mm² Flexible with end sleeve 0.5 ... 6 mm² AWG 20 ... 8 				
Versions						
<ul style="list-style-type: none"> Gray Blue 						
		8WH6 001-0AH00		1	50 units	044
		8WH6 001-0AH01		1	50 units	044
		PE through-type terminals, terminal size 6 mm², acc. to IEC 60947-7-2				
8WH6 001-0AH07		<ul style="list-style-type: none"> Green/yellow Terminal width 8.2 mm Terminal length 66 mm Terminal height 50 mm Rigid 0.5 ... 10 mm² Flexible without end sleeve 0.5 ... 10 mm² Flexible with end sleeve 0.5 ... 6 mm² AWG 20-8 				
		8WH6 001-0CH07		1	50 units	044
Accessories						
		Support brackets				
		<ul style="list-style-type: none"> Made of blue molded plastic For holding the N-busbar 				
Versions						
<ul style="list-style-type: none"> For terminal size 2.5 ... 4 mm² For terminal size 6 mm² 						
		8WH9 143-0AF01		1	50 units	044
		8WH9 143-0AH01		1	50 units	044
		Covers				
		Gray				
Versions						
<ul style="list-style-type: none"> For terminal size 2.5 mm² For terminal size 4 mm² For terminal size 6 mm² 						
		8WH9 000-1WA00		100	50 units	044
		8WH9 003-7WA00		100	50 units	044
		8WH9 004-1WA00		100	50 units	044

Note:

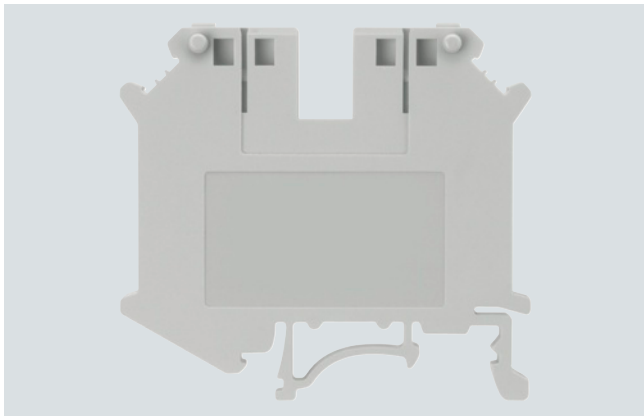
For general accessories for 8WH terminal blocks, see chapter 8.

8WH6 iPo Installation Terminals

8WH through-type screw terminals

3

Overview



We offer a comprehensive range of installation terminals with iPo technology for use in building management systems. We also offer a range of compact, cost-effective terminal blocks with screw terminals for connecting larger cross-sections.

Terminal blocks mounted on N-busbars are most commonly used in building management systems. In order to enable the butt-mounting of different terminals, contact to the N-busbar is always on the same mounting level. This means that 8WH1-001 screw terminals and 8WH6-001 plug-in terminals can be combined as required and mounted on a single support rail.

Labels can be affixed at each clamping point by simply snapping them on at the front.

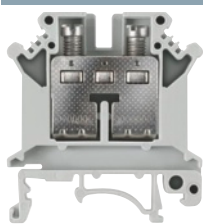
Technical specifications

		8WH1 001-0AK00 8WH1 001-0AK01	8WH1 001-0CK07	8WH1 001-0AM00 8WH1 001-0AM01	8WH1 001-0CM07
Cross-section	mm ²	16	16 (PE)	35	35 (PE)
Max. cross-section with comb (rigid/flexible)	mm ²	16 / 16	--	35 / 35	--
Dimensions					
• Width/length/width of cover	mm	12.2 / 42.5 / 1.8	12.2 / 42.5 / --	15.2 / 55 / --	15.2 / 55 / --
• Height (TS 35/7.5 / TS 35/15)	mm	47 / 54.5 / 52	47 / 54.5 / 52	51 / 58.5 / 56	51 / 58.5 / 56
Max. load current I_{max} /cross-section	A / mm ²	101 / 25	101 / 25	125 / 35	125 / 35
Rated impulse withstand voltage/pollution degree	kV	6 / 3	6 / 3	8 / 3	8 / 3
Overvoltage category / molded plastic group		III / I	III / I	III / I	III / I
Connection capacities					
• For one conductor					
- Rigid	mm ²	1.5 ... 16	1.5 ... 16	0.75 ... 35	0.75 ... 35
- Flexible with end sleeve	mm ²	1.5 ... 16	1.5 ... 16	0.75 ... 35	0.75 ... 35
• For two conductors of same cross-section					
- Rigid / flexible	mm ²	1.5 ... 6 / 1.5 ... 6	1.5 ... 6 / 1.5 ... 4	0.75 ... 15 / 0.75 ... 10	0.75 ... 16 / 0.75 ... 10
- Flexible with end sleeve	mm ²	1.5 ... 4	1.5 ... 6	0.75 ... 10	0.75 ... 10
Stripped length	mm	11	11	16	16
Plug gauge (IEC 60947-1)		B7	B7	B9	B9
Clamping point: Screw thread / tightening torque	Nm	M4 / 1.5 ... 1.8	M4 / 1.5 ... 1.8	M6 / 3.2 ... 3.7	M5 / 3.2 ... 3.7
Fixing: Screw thread / tightening torque	Nm	--	M4 / 1.5 ... 1.8	--	M5 / 2.5 ... 3
Molded plastic type		PA	PA	PA	PA
Flammability class acc. to UL 94		V2	V2	V2	V2
Approval data (UL/cUL and CSA)					
• UL/cUL					
- Rated voltage / rated current / conductor sizes	V/A/AWG	600 / 85 / 22-4	-- / -- / 22-4	600 / 115 / 18-2	-- / -- / 18-2
• CSA					
- Rated voltage / rated current / conductor sizes	V/A/AWG	600 / 85 / 22-4	-- / -- / 22-4	600 / 130 / 18-2	-- / -- / --

Selection and ordering data

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS* / P. unit	PG
---------	----	-----------	--------------	-------------------	---------------	----

Terminal size 16 mm²



8WH1 001-0AK00

Through-type screw terminals, terminal size 16 mm²

Width 12.2 mm

Versions


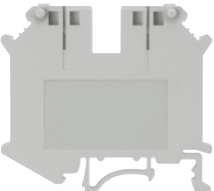

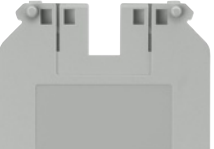





- Gray
- Blue

8WH1 001-0AK00
8WH1 001-0AK01

1 50 units 044
1 50 units 044

8WH through-type screw terminals

3

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
Terminal size 16 mm² (contd.)						
		Through-type screw PE terminals, terminal size 16 mm² • Width 12.2 mm • Enclosed at both ends • Green/yellow		8WH1 001-0CK07	1 50 units	044
8WH1 001-0CK07						
Terminal size 35 mm²						
		Through-type screw terminals, terminal size 35 mm² • Width 16 mm • Enclosed at both ends Versions • Gray • Blue		8WH1 001-0AM00 8WH1 001-0AM01	1 50 units 1 50 units	044 044
8WH1 001-0AM00						
		Through-type screw PE terminals, terminal size 35 mm² • Width 16 mm • Enclosed at both ends • Green/yellow		8WH1 001-0CM07	1 50 units	044
8WH1 001-0CM07						
Accessories						
		Covers, for screw terminals • 10/16 mm ² • Width 2 mm • Gray		8WH9 005-3PA00	100 50 units	044
8WH9 005-3PA00						
		Bridge, 10-pole For through-type terminals, 16 mm ² , gray and blue		8WH9 030-6AL00	1 10 units	044
8WH9 030-6AL00						
		Bridge, 2-pole For through-type terminals, 35 mm ² , gray and blue		8WH9 030-6BC00	1 10 units	044
8WH9 030-6BC00						
		Bridge, 3-pole For through-type terminals, 35 mm ² , gray and blue		8WH9 030-6BD00	1 10 units	044
8WH9 030-6BD00						
		Compartment partitions For through-type terminals, 16 mm ² , gray and blue		8WH9 070-6HA00	100 50 units	044
8WH9 070-6HA00						
		Insulation plates For through-type terminals, 16 and 35 mm ² , gray and blue		8WH9 070-6GA00	100 50 units	044
8WH9 070-6GA00						

Note:

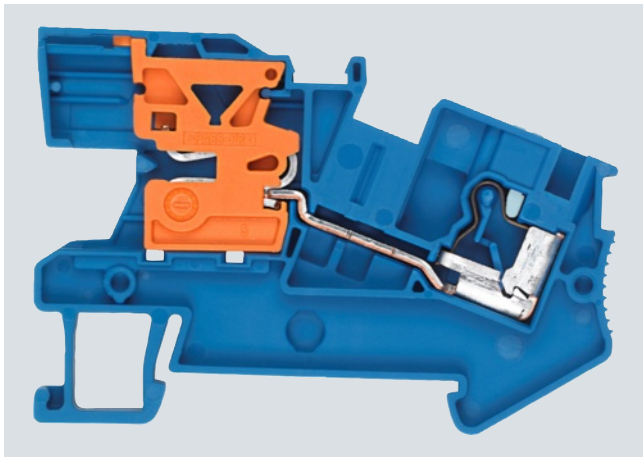
For general accessories for 8WH terminal blocks, [see chapter 8](#).

8WH6 iPo Installation Terminals

8WH N-conductor isolating terminals

3

Overview



The N-conductor disconnect slides are in the same position on all 8WH6-001 terminals using iPo plug-in technology.

A 10 mm × 3 mm busbar is used.

Notice: Only use Cu busbars.

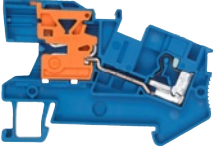
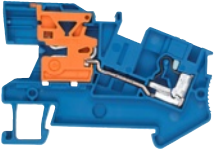
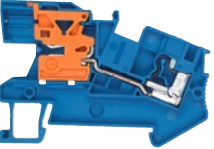




Installation instructions: To ensure that the N-busbars are securely mounted, the support brackets must be placed at the beginning and end of each terminal strip (in the case of longer terminal strips: every 20 cm).

A label can be snapped on to the middle of the terminal at the front. Labels can also be mounted flat on the clamping points of the terminals (not with N-busbar connection).

Technical specifications

		8WH6 001-0BF01	8WH6 001-0BG01	8WH6 001-0BH01
Cross-section	mm ²	2.5	4	6
Dimensions				
• Width/length/width of cover	mm	5.2 / 59 / 2.2	6.2 / 66 / 2.2	8.2 / 66 / 2.2
• Height (NS 35/7.5 / NS 35/15)	mm	46.3/ 53.8	46.3/ 53.8	50 / 57.5
Rated current I_n / cross-section	A/ mm ²	24 / 2.5	32 / 4	41 / 6
Rated voltage U_n	V	250	250	400
Connection capacities				
• Rigid	mm ²	0.14 ... 4	0.2 ... 6	0.5 ... 10
• Flexible with end sleeve	mm ²	0.25 ... 2.5	0.25 ... 4	0.5 ... 6
Stripped length	mm	10	10	12
Molded plastic type		PA	PA	PA
• Flammability class acc. to UL 94		V0	V0	V0

Selection and ordering data

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
Terminal size 2.5 mm²						
 8WH6 001-0BF01		N-conductor isolating terminals, terminal size 2.5 mm², acc. to IEC 60947-7-1 <ul style="list-style-type: none"> • Two clamping points • Terminal width 5.2 mm • Terminal length 59 mm • Terminal height (NS 35/7.5) 46.3 mm • Rated current 24 A / cross-section 2.5 mm² • Rated voltage $U_n = 250$ V • Rigid 0.14 ... 4 mm² • Flexible with end sleeve 0.14 ... 2.5 mm² • AWG 26 to 12 			1 50 units	044
Terminal size 4 mm²						
 8WH6 001-0BG01		N-conductor isolating terminals, terminal size 4 mm², acc. to IEC 60947-7-1 <ul style="list-style-type: none"> • Two clamping points • Terminal width 6.2 mm • Terminal length 66 mm • Terminal height (NS 35/7.5) 46.3 mm • Rated current 32 A / cross-section 4 mm² • Rated voltage $U_n = 250$ V • Rigid 0.2 ... 6 mm² • Flexible with end sleeve 0.25 ... 4 mm² • AWG 24 to 10 			1 50 units	044
Terminal size 6 mm²						
 8WH6 001-0BH01		N-conductor isolating terminals, terminal size 6 mm², acc. to IEC 60947-7-1 <ul style="list-style-type: none"> • Two clamping points • Terminal width 8.2 mm • Terminal length 66.3 mm • Terminal height (NS 35/7.5) 50 mm • Max. load current $I_{max} = 41$ A • Rated current 41 A / cross-section 6 mm² • Rated voltage $U_n = 400$ V • Rigid 0.5 ... 10 mm² • Flexible with end sleeve 0.5 ... 6 mm² • AWG 20-8 			1 50 units	044
Accessories						
 8WH9 143-0AF01		Support brackets <ul style="list-style-type: none"> • Made of blue molded plastic • For holding the N-busbar Versions <ul style="list-style-type: none"> • For terminal size 2.5 ... 4 mm² • For terminal size 6 mm² 			1 50 units 1 50 units	044 044
 8WH9 000-1SA00		Covers Gray Versions <ul style="list-style-type: none"> • For terminal size 2.5 mm² • For terminal size 4 mm² • For terminal size 6 mm² 			100 50 units 100 50 units 100 1 unit	044 044 044
 8WA2 867/8WA2 868/ 8WA2 870		Feeder terminals, for N-busbars <ul style="list-style-type: none"> • 6 × 6 mm and 10 × 3 mm • Bare Versions <ul style="list-style-type: none"> • Rated uninterrupted current 32 A, for connection of up to 4 mm² • Rated uninterrupted current 76 A, for connection of up to 25 mm² • Rated uninterrupted current 125 A, for connection of up to 35 mm² 			1 50 units 1 50 units 1 50 units	041 041 041
 8WA2 842		N-busbars, 10 mm × 3 mm <ul style="list-style-type: none"> • Tin-plated • 1000 mm long 			1 1 unit	041

Note:

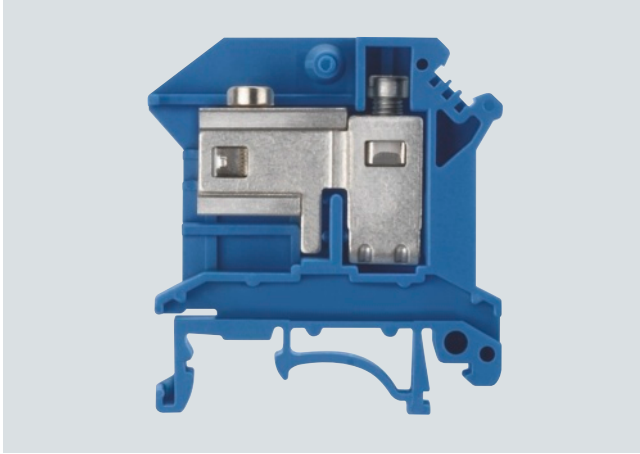
For general accessories for 8WH terminal blocks, see chapter 8.

8WH6 iPo Installation Terminals

8WH N-conductor isolating screw terminals

3

Overview



We offer a comprehensive range of installation terminals with iPo plug-in technology for use in building management systems. We also offer a range of compact, cost-effective terminal blocks with screw terminals for connecting larger cross-sections.

Terminal blocks mounted on N-busbars are most commonly used in building management systems. In order to enable the butt-mounting of different terminals, contact to the N-busbar is always on the same mounting level. This means that 8WH1-001 screw terminals and 8WH6-001 plug-in terminals can be combined as required and mounted on a single support rail.

The compact design of our N-conductor isolating terminals makes for a neat and clearly arranged terminal strip. The N-busbar can be connected over the terminal or over the disconnect slide of the N-conductor isolating terminal. The N-conductor isolating terminal also makes it easy to perform insulation measurements.

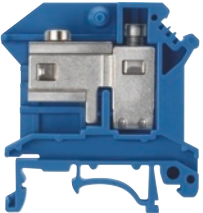
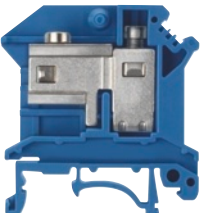

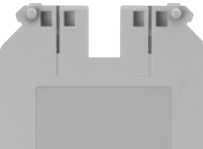



Labels can be affixed on the clamping points (screw) by simply snapping them on at the front.

Notice: Only use Cu busbars.

Technical specifications

		8WH1 001-0BJ01	8WH1 001-0BK01	8WH1 001-0BM01
Cross-section	mm ²	10	16	35
Dimensions				
• Width/length/width of cover	mm	10.2 / 43.5 / 1.8	12.2 / 43.5 / 1.5	16 / 55 / --
• Height (TS 35/7.5 / TS 35/15)	mm	47 / 54.5 / 52	54 / 61.5 / 59	51 / 58.5 / 56
Max. load current I_{max} /cross-section	A/ mm ²	63 / 16	90 / 25	110 / 35
Rated impulse withstand voltage/pollution degree	kV	6 / 3	6 / 3	6 / 3
Overvoltage category / molded plastic group		III / I	III / I	III / I
Connection capacities				
• For one conductor				
- Rigid	mm ²	0.5 ... 10	1.5 ... 16	0.75 ... 35
- Flexible with end sleeve	mm ²	0.5 ... 6	1.5 ... 16	0.75 ... 35
• For two conductors of same cross-section				
- Rigid / flexible	mm ²	0.5 ... 4 / 0.5 ... 4	1.5 ... 6 / 1.5 ... 4	0.75 ... 16 / 0.75 ... 10
- Flexible with end sleeve	mm ²	0.5 ... 2.5	1.5 ... 8	0.75 ... 10
Stripped length	mm	12	11	16
Plug gauge (IEC 60947-1)		B5	B6	B9
Clamping point: Screw thread / tightening torque	Nm	M4 / 1.5 ... 1.8	M4 / 1.5 ... 1.8	M6 / 3.2 ... 3.7
Fixing: Screw thread / tightening torque	Nm	M3 / 0.6 ... 0.8	M3 / 0.6 ... 0.8	M5 / 2.5 ... 3
Molded plastic type		PA	PA	PA
Flammability class acc. to UL 94		V2	V2	V2

Selection and ordering data

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
Terminal size 10 mm²						
		N-conductor isolating screw terminals, terminal size 10 mm²				
		<ul style="list-style-type: none"> • Width 10 mm • Blue 				
8WH1 001-0BJ01		8WH1 001-0BJ01		1	50 units	044
Terminal size 16 mm²						
		N-conductor isolating screw terminals, terminal size 16 mm²				
		<ul style="list-style-type: none"> • Width 12 mm • Blue 				
8WH1 001-0BK01		8WH1 001-0BK01		1	50 units	044
Terminal size 35 mm²						
		N-conductor isolating screw terminals, terminal size 35 mm²				
		<ul style="list-style-type: none"> • Width 16 mm • Enclosed at both ends • Blue 				
8WH1 001-0BM01		8WH1 001-0BM01		1	50 units	044
Accessories						
		Covers, for screw terminals				
		<ul style="list-style-type: none"> • 10/16 mm² • Width 2 mm • Gray 				
8WH9 005-3PA00		8WH9 005-3PA00		100	50 units	044
		Support brackets for N-conductor isolating screw terminals, terminal size 10 ... 35 mm²				
		<ul style="list-style-type: none"> • For holding the N-busbar • To be placed every 20 cm • 2 mm wide 				
8WH9 141-0BA01		8WH9 141-0BA01		1	50 units	044
		Terminals				
		Blue				
		Versions				
		<ul style="list-style-type: none"> • To 16 mm², width: 10.3 mm • To 35 mm², width: 14.4 mm, enclosed at both ends 				
8WH9 126-0BA01		8WH9 126-0BA01		1	50 units	044
		8WH9 127-0BA01		1	50 units	044
		N-busbars, 10 mm × 3 mm				
		<ul style="list-style-type: none"> • Made of copper, tin-plated • 1000 mm long 				
8WA2 842		8WA2 842		1	1 unit	041

Note:

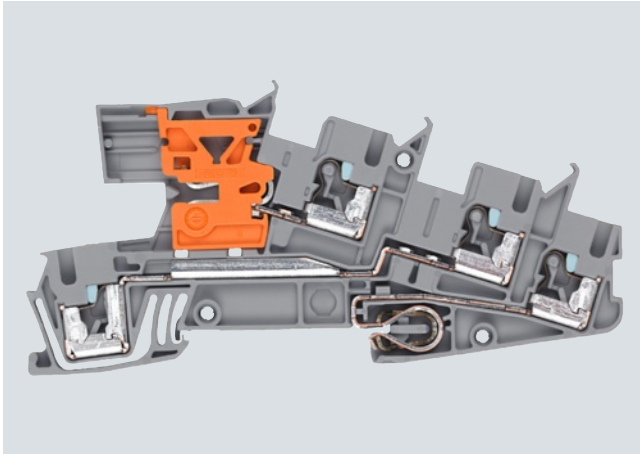
For general accessories for 8WH terminal blocks, see chapter 8.

8WH6 iPo Installation Terminals

8WH installation terminals

3

Overview



The three-tier plug-in terminals offer optimum operating characteristics for modern building installations. The plug-in connection allows tool-free wiring of the solid conductors.

These terminals can be used interconnected with the N-busbar 10×3 mm.

Notice: Only use Cu busbars.

Thanks to their compact design, the three-tier terminals can be installed in all types of building distribution boards. A load circuit can be quickly and easily wired, for example using a 5.2 mm wide installation terminal with terminal size 2.5 mm^2 and PE/L/NT connections.

The double bridge shafts support a multitude of individual wiring tasks. This also means it is practical and convenient to make subsequent modifications to the installation.






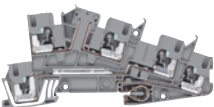
Labels can be mounted flat on the clamping points of the terminals.

Technical specifications

Installation terminals, standard version	8WH6 001-4QF00 8WH6 001-4DF00 8WH6 001-4CF00	8WH6 001-0HF00 8WH6 001-4EF00	8WH6 001-4FF00
Installation terminals with isolating function		8WH6 001-4GF00 8WH6 001-4NF00 8WH6 001-4PF00 8WH6 001-4MF00	
Cross-section	mm ²	2.5	
Dimensions			
• Width/length/width of cover	mm	5.5 / 101 / 2.2	
• Height (TS 35/7.5 / TS 35/15)	mm	50.5 / 58	
Rated current I_n cross-section	A / mm ²	24 / 4	
Max. load current I_{max} /cross-section	A / mm ²	30 ¹⁾ / 4	
Rated voltage U_n	V	400 (L-L) 250 (L-N or L-PE)	
Connection capacities			
• Rigid	mm ²	0.14 ... 4	
• Flexible with end sleeve	mm ²	0.14 ... 2.5	
Stripped length without insulation stop sleeve (no insulation stop sleeves should be used when using end sleeves)	mm	10	
Stripped length with insulation stop sleeve (no insulation stop sleeves should be used when using end sleeves)	mm	10	
Plug gauge (IEC 60947-1)		A3	
Molded plastic type		PA	
Flammability class acc. to UL 94		V0	

¹⁾ 3-pole terminal block






Selection and ordering data

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
Terminal size 2.5 mm²						
Installation terminals, terminal size 2.5 mm², standard version for N-busbar						
 8WH6 001-4QF00						
 8WH6 001-4DF00						
 8WH6 001-4HF00						
 8WH6 001-4FF00						
<ul style="list-style-type: none"> • Gray • Terminal width 5.2 mm • Rigid 0.14 ... 4 mm² • Flexible with end sleeve 0.14 ... 2.5 mm² • AWG 26-12 • Rated current 24 A / cross-section 4 mm² • Rated voltage $U_n = 400$ V (L-L) $U_n = 250$ V (L-N or L-PE) 						
Versions <ul style="list-style-type: none"> • L • L/L • L/N • PE/L/L • PE/L/N • PE/L/NT 						
		8WH6 001-4QF00		1	50 units	044
		8WH6 001-4DF00		1	50 units	044
		8WH6 001-4CF00		1	50 units	044
		8WH6 001-4HF00		1	50 units	044
		8WH6 001-4EF00		1	50 units	044
		8WH6 001-4FF00		1	50 units	044
Installation terminals, terminal size 2.5 mm², with isolating blade						
 8WH6 001-4NF00						
<ul style="list-style-type: none"> • Gray • Terminal width 5.2 mm • Rigid 0.25 ... 4 mm² • Flexible with end sleeve 0.25 ... 2.5 mm² • AWG 22-12 • Rated current 24 A / cross-section 4 mm² • Rated voltage $U_n = 400$ V (L-L) $U_n = 250$ V (L-N or L-PE) 						
Versions <ul style="list-style-type: none"> • PE/L/L (standard version, suitable for isolating terminal) • PE/L/N isolating blade • PE/L/L isolating blade 						
		8WH6 001-4PF00		1	50 units	044
		8WH6 001-4GF00		1	50 units	044
		8WH6 001-4NF00		1	50 units	044
Installation terminals, terminal size 2.5 mm², for isolating function						
 8WH6 001-4PF00						
<ul style="list-style-type: none"> • Gray • Terminal width 5.2 mm • Rigid 0.25 ... 4 mm² • Flexible with end sleeve 0.25 ... 2.5 mm² • AWG 22-12 • Rated current 24 A / cross-section 4 mm² • Rated voltage $U_n = 400$ V (L-L) $U_n = 250$ V (L-PE) 						
Versions <ul style="list-style-type: none"> • PE/L/L (standard version, suitable for isolating terminal) • PE/L/L isolation 						
		8WH6 001-4PF00		1	50 units	044
		8WH6 001-4MF00		1	50 units	044

8WH6 iPo Installation Terminals

8WH installation terminals

3

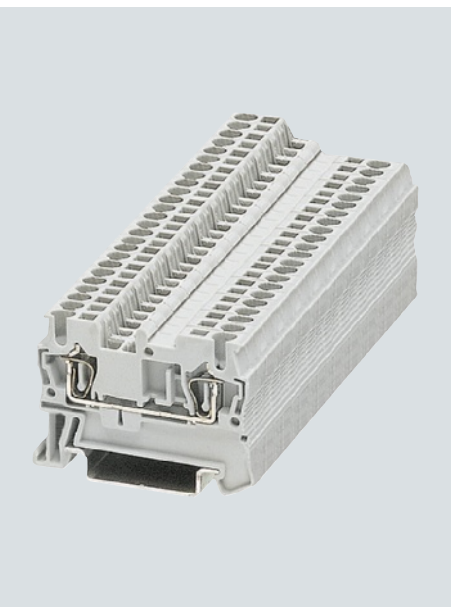
Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
Accessories						
 8WH9 142-0AF01		8WH9 142-0AF01		1	50 units	044
Support brackets, for terminal size 2.5 mm² <ul style="list-style-type: none"> • For holding the N-busbar • To be placed every 20 cm • 2 mm wide 						
 8WH9 000-3SA00		8WH9 000-3SA00		1	50 units	044
Covers, for terminal size 2.5 mm² gray						
 8WH9 000-6SA00		8WH9 000-6SA00		1	50 units	044
Covers, for terminal size 2.5 mm² and isolating terminal in contour gray						
 8WA2 867/8WA2 868/ 8WA2 870		8WA2 867 8WA2 868 8WA2 870		1	50 units	041
Feeder terminals, for N-busbars <ul style="list-style-type: none"> • 6 × 6 mm and 10 × 3 mm • Bare Versions						
<ul style="list-style-type: none"> • Rated uninterrupted current 32 A, for connection of up to 4 mm² • Rated uninterrupted current 76 A, for connection of up to 25 mm² • Rated uninterrupted current 125 A, for connection of up to 35 mm² 						
 8WA2 842		8WA2 842		1	1 unit	041
N-busbars, 10 mm × 3 mm <ul style="list-style-type: none"> • Made of copper, tin-plated • 1000 mm long 						

Note:

For general accessories for 8WH terminal blocks, [see chapter 8](#).

8WH2 Spring-Loaded Terminals

4



4/2	Introduction
4/3	General data on 8WH
4/7	8WH through-type terminals¹⁾
4/18	8WH hybrid through-type terminals¹⁾
4/21	8WH fuse terminals
4/23	8WH isolating blade terminals
4/25	8WH isolating terminals
4/27	8WH two-tier terminals¹⁾
4/33	8WH three-tier terminals
4/35	8WH four-tier motor terminals
4/37	8WH diode terminals
4/39	8WH two-tier diode terminals

4

¹⁾ Also available as a PE version

More technical product information:

Service&Support Portal:

www.siemens.com/lowvoltage/technical-support

→ Product List:
Technical specifications

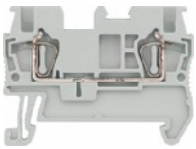
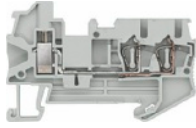

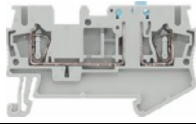
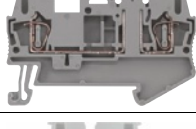
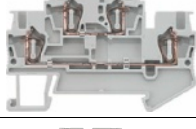
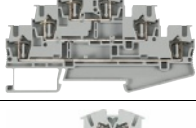
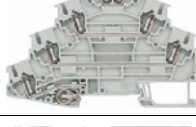
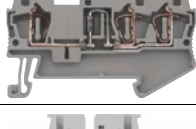
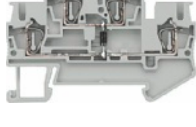
→ Entry List:
Updates / Downloads / FAQ /
Manuals / Operating instructions /
Characteristic curves / Certificates

8WH2 Spring-Loaded Terminals

Introduction

Overview

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8WH terminals	Devices	Page	Application
	Through-type terminals	4/7	Connection of incoming and outgoing conductors up to 35 mm ²
	Hybrid through-type terminals	4/18	Terminals with a range of connection methods
	Fuse terminals	4/21	Terminals which can be used to protect control circuits, for example
	Isolating blade terminals	4/23	Isolation of the circuit, e.g. for test purposes
	Isolating terminals	4/25	Isolation of the circuit, e.g. for test purposes
	Two-tier terminals	4/27	Compact form of the terminal block in which two connection wires can be installed
	Three-tier terminals	4/33	Compact terminal blocks up to 2.5 mm ² , in which three connection wires can be installed
	Four-tier motor terminals	4/35	Compact terminal blocks up to 4 mm ² , in which three connection wires plus PE can be installed
	Diode terminals	4/37	Terminal blocks with integrated diodes
	Two-tier diode terminals	4/39	Terminal blocks with integrated diodes

Overview

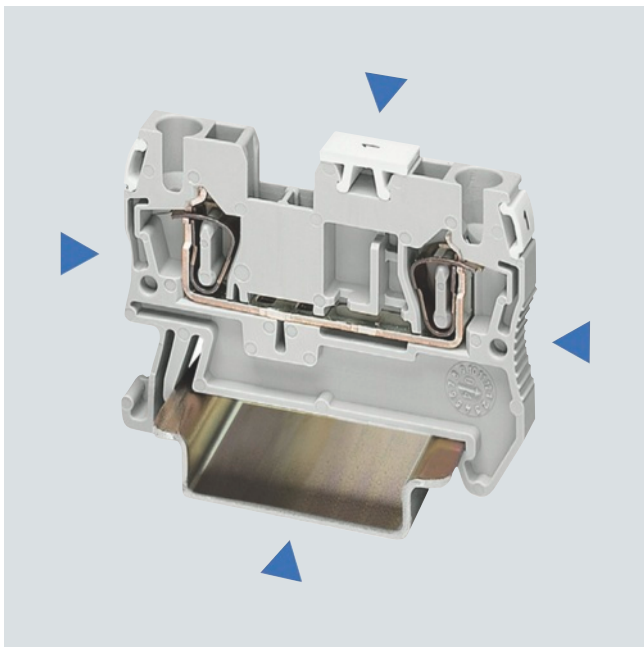
Conductor cross-section	Terminal type ¹⁾	Terminal type → Design → No. of clamping points → Order No. (digits 1 ... 7) → Color	Standard spring-loaded connection					Order No. (digits 8 ... 12)
			Standard		Two-tier			
			2 8WH2 000	3 8WH2 003	4 8WH2 004	4 8WH2 020	6 8WH2 023	
1.5 mm ²	Through-type	Gray	✓	✓	✓	✓	--	0AE00
		Blue	✓	✓	✓	✓	--	0AE01
	PE	Green/yellow	✓	✓	✓	✓	--	0CE07
2.5 mm ²	Through-type	Gray	✓	✓	✓	✓	✓	0AF00
		Blue	✓	✓	✓	✓	✓	0AF01
	Isolating	Gray	✓	✓	✓	--	--	6AF00
	Isolating blade	Gray	✓	✓	✓	--	--	0CF00
	PE	Green/yellow	✓	✓	✓	✓	✓	0CF07
4 mm ²	Through-type	Gray	✓	✓	✓	✓	--	0AG00
		Blue	✓	✓	✓	✓	--	0AG01
	Isolating	Gray	✓	--	--	--	--	6AG00
	Isolating blade	Gray	✓	--	--	--	--	6CG00
	PE	Green/yellow	✓	✓	✓	✓	--	0CG07
6 mm ²	Through-type	Gray	✓	✓	--	--	--	0AH00
		Blue	✓	✓	--	--	--	0AH01
	PE	Green/yellow	✓	✓	--	--	--	0CH07
10 mm ²	Through-type	Gray	✓	--	--	--	--	0AJ00
		Blue	✓	--	--	--	--	0AJ01
	PE	Green/yellow	✓	--	--	--	--	0CJ07
16 mm ²	Through-type	Gray	✓	--	--	--	--	0AK00
		Blue	✓	--	--	--	--	0AK01
	PE	Green/yellow	✓	--	--	--	--	0CK07
35 mm ²	Through-type	Gray	✓	--	--	--	--	0AM00
		Blue	✓	--	--	--	--	0AM01
	PE	Green/yellow	✓	--	--	--	--	0CM07

¹⁾ Only the main terminal types are listed here. You will find further versions on the following pages.

8WH2 Spring-Loaded Terminals

General data on 8WH

4



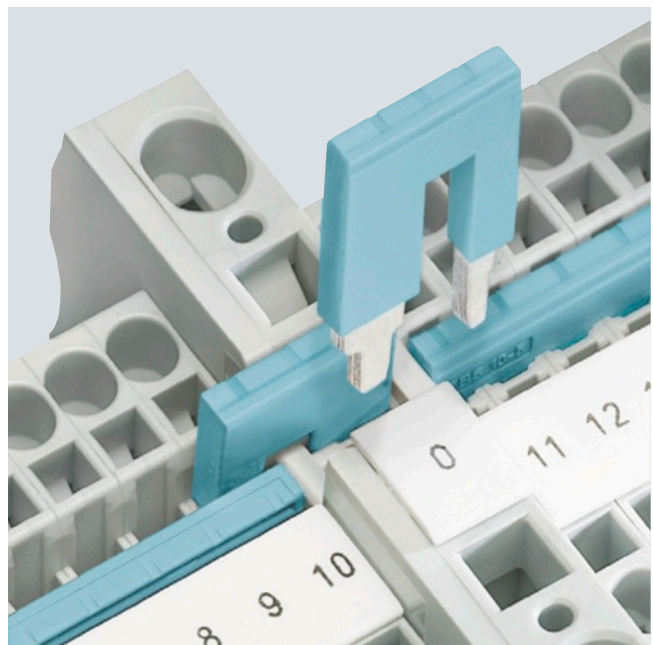
The space-saving design and conductor routing from above make spring-loaded terminals ideal for controlgear installations with minimum available space. The terminals are open at one end and can be closed using the appropriate covers.



The large and unambiguous marking in the center of the terminal is essential for ensuring reliable installation in minimum time. Each clamping point can also be separately labeled.



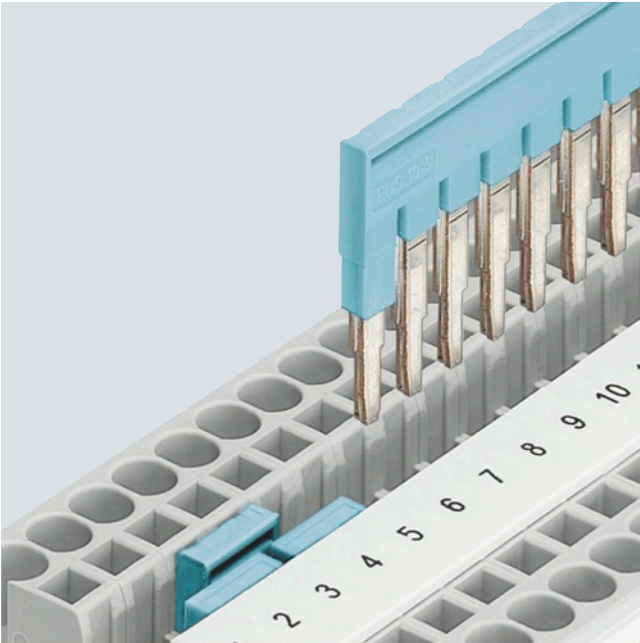
Spring-loaded terminals provide a large connection compartment for fast wiring of flexible and rigid conductors, including conductors with nominal cross-section and a fitted end sleeve.



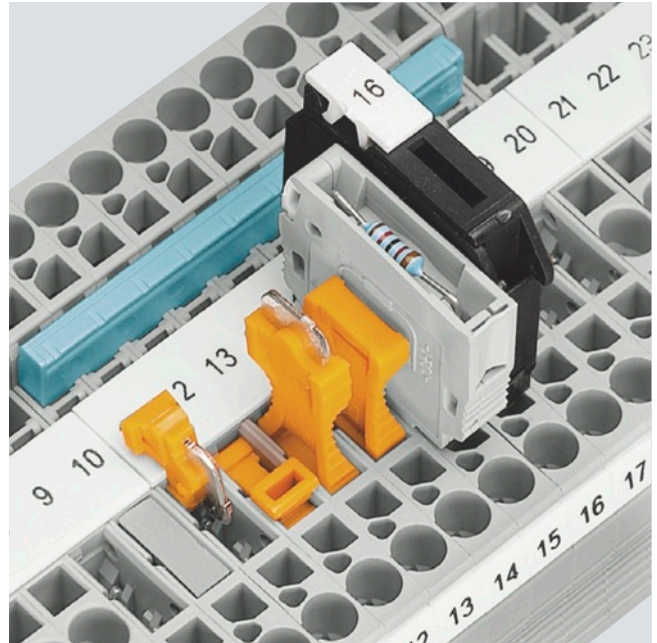
Reducing combs enable easy connection of terminals with various nominal cross-section. For example, they can be used for the fast creation of infeed blocks, e.g. by connecting a 10 mm² spring-loaded terminal with a 2.5 or 4 mm² spring-loaded terminal.

8WH2 Spring-Loaded Terminals

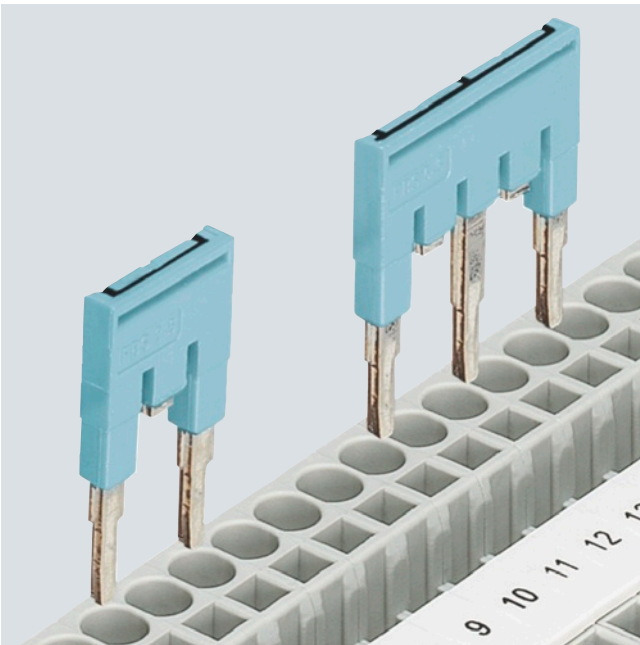
General data on 8WH



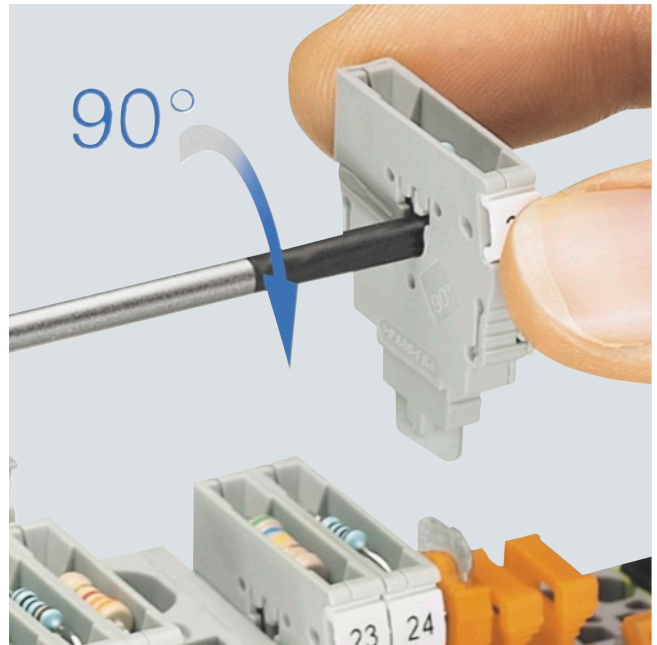
The 2 to 50-pole connecting combs also considerably reduce the time needed for assembly and wiring as they enable up to 50 terminals to be connected in a single step.



The universal plug-in zones of the isolating terminal can accommodate the isolated through-type connectors, isolating plugs, component connectors and fused connectors.



Contact tabs can be removed from the standard comb in order to skip individual terminals. This means that two potentials can run in parallel on a single terminal strip. The contact points can additionally be marked.

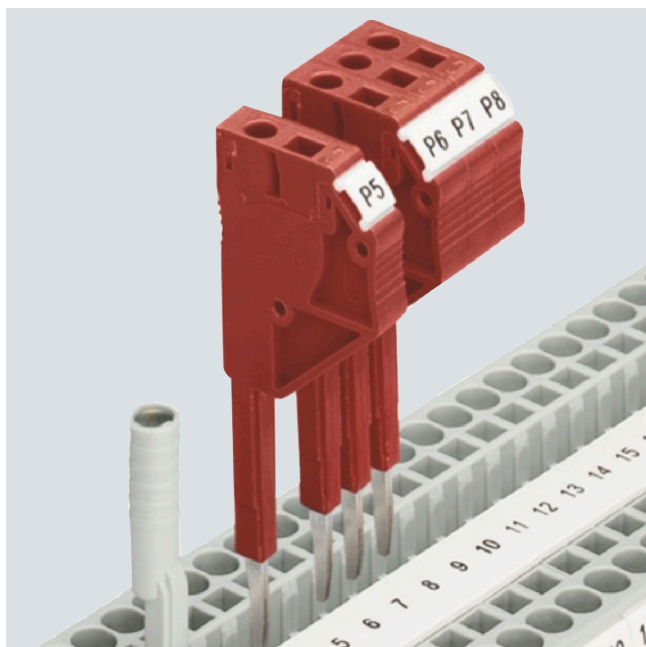


The component connector enables the convenient equipping with electronic components. One turn of the screwdriver opens the contact points and the component is easily inserted.

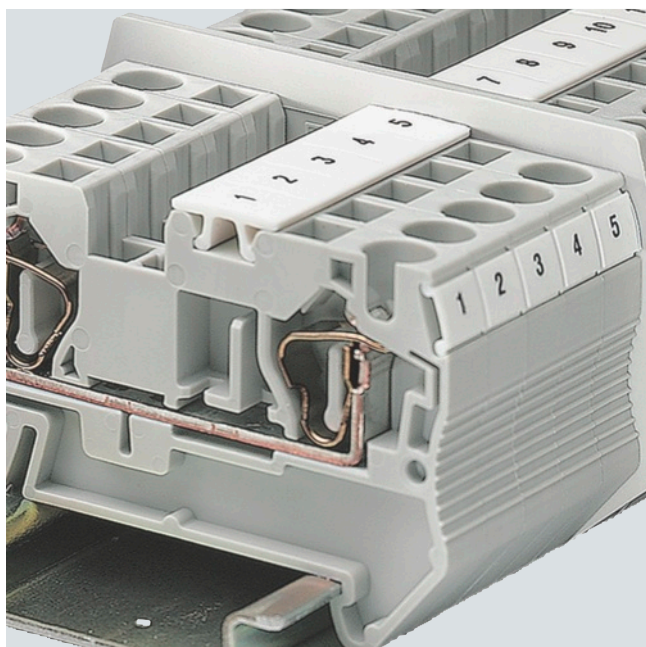
8WH2 Spring-Loaded Terminals

General data on 8WH

4



A comprehensive range of test accessories is also available for the spring-loaded terminal series. The test adapters for $\varnothing 4$ mm test plugs and modular test plugs enable all measuring and testing jobs to be performed in minimum time.



The compartment partitions project beyond the contours of the terminals and separate the groups both visually and electrically.



Cover segments are used to cover the projecting terminal segments of three and four-wire terminals when mounting two-wire terminals side-by-side. This ensures touch protection.

Note: The accessories for 8WH can only be used for 8WH terminals.

Overview

**With two clamping points**

The through-type terminals have an impressive space-saving design and offer optimized handling. With its front connection arrangement this series provides additional space between the cable ducts for wiring.

The double bridge shaft enables individual chain bridging with connecting combs. Accessories are available for testing and labeling.

With three clamping points

Terminals with three clamping points are a space-saving alternative to the standard through-type terminals for branching the potential.

It is often necessary for three conductors to be routed to a single terminal. This three clamping point version enables this without the need for additional terminals and jumpers.

With four clamping points

The double connection of the through-type terminals with four clamping points enables four conductors to be connected to a single potential. These versions with four clamping points are therefore suitable for use as compact potential distributors.

A label can be snapped on to the middle of each terminal at the front. Further labels can also be mounted flat on the side of the terminals.

PE/ground conductor function

The PE through-type terminals are available with the same contour as the through-type terminals. Simply snap the terminals onto the support rail to achieve full mechanical and electrical contact with the support rail.

The PE through-type terminals meet all the requirements of IEC 60947-7-2:

- Low contact resistance
- Stainless clamping points
- Green-yellow enclosure
- Additional inscription options

Technical specifications

	8WH2 000-0AE0	8WH2 000-0CE07	8WH2 003-0AE00 8WH2 003-0AE01	8WH2 003-0CE07	8WH2 004-0AE00 8WH2 004-0AE01
Dimensions					
• Width/length/cover width in mm	4.2 / 48.5 / 2.2		4.2 / 60.5 / 2.2		4.2 / 72 / 2.2
• Height (NS 35/7.5 / NS 35/15) in mm	36.8 / 44		36.5 / 44		
Technical specifications acc. to IEC/DIN VDE					
• Max. load current in A / cross-section in mm ²	17.5 / 1.5	--	17.5 / 1.5	--	17.5 / 1.5
• Rated impulse withstand voltage in kV / pollution degree	6 / 3				
• Overvoltage category / molded plastic group	III / I				
Connection capacities					
• Flexible with end sleeve, with plastic sleeve in mm ²	0.25 ... 1.5				
• Flexible with end sleeve, without plastic sleeve in mm ²	0.25 ... 1.5				
• Flexible with two-wire connection end sleeve, with plastic sleeve in mm ²	0.5				
Stripped length in mm	10				
Plug gauge (IEC 60947-1)	A1				
Molded plastic type	PA				
• Flammability class acc. to UL 94	V0				
Approval data (UL/cUL and CSA)					
• Rated voltage / rated current / conductor sizes					
- UL/cUL: in V/A / AWG	300 / 15 / 26-14	-- / -- / 26-14	300 / 15 / 26-14	-- / -- / 26-14	300 / 15 / 26-14
- CSA: in V/A / AWG	300 / 15 / 26-14	-- / -- / 26-14	300 / 15 / 26-14	--	300 / 15 / 26-14
Support rails/protective conductor busbars	--	See section "Support rails" on page 1/3	--	See section "Support rails" on page 1/3	--

8WH2 Spring-Loaded Terminals

8WH through-type terminals

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	8WH2 004-0CE07	8WH2 000-0AF0.	8WH2 000-0CF07	8WH2 003-0AF00 8WH2 003-0AF01	8WH2 003-0CF07
Dimensions					
• Width/length/cover width in mm	4.2 / 72 / 2.2	5.2 / 48.5 / 2.2		5.2 / 60.5 / 2.2	
• Height (NS 35/7.5 / NS 35/15) in mm	36.5 / 44	36.8 / 44		36.5 / 44	
Technical specifications acc. to IEC/DIN VDE					
• Max. load current in A / cross-section in mm ²	--	31 / 4	--	28 / 4	--
• Rated impulse withstand voltage in kV / pollution degree	6 / 3	8 / 3			
• Overvoltage category / molded plastic group	III / I				
Connection capacities					
• Flexible with end sleeve, with plastic sleeve in mm ²	0.25 ... 1.5	0.25 ... 2.5			
• Flexible with end sleeve, without plastic sleeve in mm ²	0.25 ... 1.5	0.25 ... 2.5			
• Flexible with two-wire connection end sleeve, with plastic sleeve in mm ²	0.5				
Stripped length in mm	10				
Plug gauge (IEC 60947-1)	A1	A3			
Molded plastic type	PA				
• Flammability class acc. to UL 94	V0				
Approval data (UL/cUL and CSA)					
• Rated voltage / rated current / conductor sizes	-- / -- / 26-14	300 / 20 / 26-12	-- / -- / 26-12	600 / 20 / 26-12	-- / -- / 26-12
- UL/cUL: in V/A / AWG	-- / -- / 26-14	--			
- CSA: in V/A / AWG					
Support rails/protective conductor busbars	See section "Support rails" on page 1/3	--	See section "Support rails" on page 1/3	--	See section "Support rails" on page 1/3
	8WH2 004-0AF00 8WH2 004-0AF01	8WH2 004-0CF07	8WH2 000-0AG0.	8WH2 003-0AG00 8WH2 003-0AG01	8WH2 004-0AG00 8WH2 004-0AG01
Dimensions					
• Width/length/cover width in mm	5.2 / 72 / 2.2		6.2 / 56 / 2.2	6.2 / 71.5 / 2.2	6.2 / 87 / 2.2
• Height (NS 35/7.5 / NS 35/15) in mm	36.5 / 44		36.8 / 44	36.5 / 44	
Technical specifications acc. to IEC/DIN VDE					
• Max. load current in A / cross-section in mm ²	28 / 4	--	40 / 6		
• Rated impulse withstand voltage in kV / pollution degree	8 / 3				
• Overvoltage category / molded plastic group	III / I				
Connection capacities					
• Flexible with end sleeve, with plastic sleeve in mm ²	0.25 ... 2.5		0.25 ... 4		
• Flexible with end sleeve, without plastic sleeve in mm ²	0.25 ... 2.5		0.25 ... 4		
• Flexible with two-wire connection end sleeve, with plastic sleeve in mm ²	0.5		0.5 ... 1		
Stripped length in mm	10				
Plug gauge (IEC 60947-1)	A3		A4		
Molded plastic type	PA				
• Flammability class acc. to UL 94	V0				
Approval data (UL/cUL and CSA)					
• Rated voltage / rated current / conductor sizes	600 / 20 / 26-12	-- / -- / 26-12	600 / 30 / 20-10		
- UL/cUL: in V/A / AWG	--				
- CSA: in V/A / AWG					
Support rails/protective conductor busbars	--	See section "Support rails" on page 1/3	--	--	--

	8WH2 000-0CG07	8WH2 003-0CG07	8WH2 004-0CG07	8WH2 000-0AH00 8WH2 000-0AH01	8WH2 003-0AH00 8WH2 003-0AH01
Dimensions					
• Width/length/cover width in mm	6.2 / 56 / 2.2	6.2 / 71.5 / 2.2	6.2 / 87 / 2.2	8.2 / 69.5 / 2.2	8.2 / 90.5 / 2.2
• Height (NS 35/7.5 / NS 35/15) in mm	36.8 / 44	36.5 / 44		43.5 / 51	
Technical specifications acc. to IEC/DIN VDE					
• Max. load current in A / cross-section in mm ²	--			52 / 10	
• Rated impulse withstand voltage in kV / pollution degree	8 / 3				
• Overvoltage category / molded plastic group	III / I				
Connection capacities					
• Flexible with end sleeve, with plastic sleeve in mm ²	0.25 ... 4			0.25 ... 6	
• Flexible with end sleeve, without plastic sleeve in mm ²	0.25 ... 4			0.25 ... 6	
• Flexible with two-wire connection end sleeve, with plastic sleeve in mm ²	0.5 ... 1			0.5 ... 1.5	
Stripped length in mm	10			12	
Plug gauge (IEC 60947-1)	A4			A5	
Molded plastic type	PA				
• Flammability class acc. to UL 94	V0				
Approval data (UL/cUL and CSA)					
• Rated voltage / rated current / conductor sizes	-- / -- / 20-10			600 / 50 / 20-8	
- UL/cUL: in V/A / AWG	--				
- CSA: in V/A / AWG					
Support rails/protective conductor busbars	See section "Support rails" on page 1/3	See section "Support rails" on page 1/3	See section "Support rails" on page 1/3	--	--


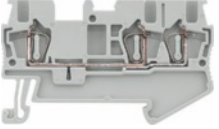











	8WH2 000-0CH07	8WH2 003-0CH07	8WH2 000-0AJ00 8WH2 000-0AJ01	8WH2 000-0CJ07
Dimensions				
• Width/length/cover width in mm	8.2 / 69.5 / 2.2	8.2 / 90.5 / 2.2	10 / 71.5 / 2.2	
• Height (NS 35/7.5 / NS 35/15) in mm	43.5 / 51		50.5 / 58	
Technical specifications acc. to IEC/DIN VDE				
• Max. load current in A / cross-section in mm ²	--		65 / 16	
• Rated impulse withstand voltage in kV / pollution degree	8 / 3			
• Overvoltage category / molded plastic group	III / I			
Connection capacities				
• Flexible with end sleeve, with plastic sleeve in mm ²	0.25 ... 6		0.25 ... 10	
• Flexible with end sleeve, without plastic sleeve in mm ²	0.25 ... 6		0.25 ... 10	
• Flexible with two-wire connection end sleeve, with plastic sleeve in mm ²	0.5 ... 1.5		1.5 ... 2.5	
Stripped length in mm	12		18	
Plug gauge (IEC 60947-1)	A5		A6	
Molded plastic type	PA			
• Flammability class acc. to UL 94	V0			
Approval data (UL/cUL and CSA)				
• Rated voltage / rated current / conductor sizes	-- / -- / 20-8		600 / 65 / 16-6	-- / -- / 16-6
- UL/cUL: in V/A / AWG	--			
- CSA: in V/A / AWG				
Support rails/protective conductor busbars	See section "Support rails" on page 1/3	See section "Support rails" on page 1/3	--	See section "Support rails" on page 1/3

	8WH2 000-0AK00 8WH2 000-0AK01	8WH2 000-0CK07	8WH2 000-0AM00 8WH2 000-0AM01	8WH2 000-0CM07
Dimensions				
• Width/length/cover width in mm	12 / 80 / 2.2		16 / 100 / --	
• Height (NS 35/7.5 / NS 35/15) in mm	51 / 58.5		59 / 66.5	
Technical specifications acc. to IEC/DIN VDE				
• Max. load current in A / cross-section in mm ²	90 / 25		125 / 35	
• Rated impulse withstand voltage in kV / pollution degree	8 / 3			
• Overvoltage category / molded plastic group	III / I			
Connection capacities				
• Flexible with end sleeve, with plastic sleeve in mm ²	0.25 ... 16		2.5 ... 35	
• Flexible with end sleeve, without plastic sleeve in mm ²	0.25 ... 16		2.5 ... 35	
• Flexible with two-wire connection end sleeve, with plastic sleeve in mm ²	1.5 ... 4		2.5 ... 10	
Stripped length in mm	18		25	
Plug gauge (IEC 60947-1)	A7		A8	
Molded plastic type	PA			
• Flammability class acc. to UL 94	V0			
Approval data (UL/cUL and CSA)				
• Rated voltage / rated current / conductor sizes	600 / 85 / 16-4	-- / -- / 16-4	600 / 115 / 14-2	-- / -- / 14-2
- UL/cUL: in V/A / AWG	--		600 / 115 / 14-2	-- / -- / 14-2
- CSA: in V/A / AWG				
Support rails/protective conductor busbars	--	See section "Support rails" on page 1/3	--	See section "Support rails" on page 1/3

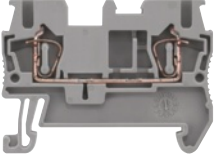

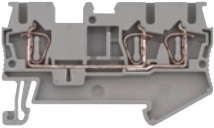

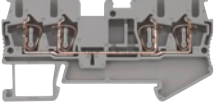

8WH2 Spring-Loaded Terminals

8WH through-type terminals

Selection and ordering data

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
Terminal size 1.5 mm²						
Through-type terminals, terminal size 1.5 mm²						
 8WH2 000-0AE00						
 8WH2 003-0AE00						
 8WH2 004-0AE00						
<ul style="list-style-type: none"> Terminal width 4.2 mm  US IEC 60947-7-1 <ul style="list-style-type: none"> Rigid 0.08 ... 1.5 mm² Flexible 0.08 ... 1.5 mm² AWG 28-16 I = 17.5 A The total current through all connected conductors must not exceed the max. load current U = 500 V 						
Versions						
<ul style="list-style-type: none"> Two clamping points <ul style="list-style-type: none"> Gray Blue Orange Red Black Green White Yellow 						
<ul style="list-style-type: none"> Three clamping points <ul style="list-style-type: none"> Gray,  Blue 						
<ul style="list-style-type: none"> Four clamping points <ul style="list-style-type: none"> Gray,  Blue 						
<ul style="list-style-type: none"> Two clamping points Three clamping points Four clamping points,  						
<ul style="list-style-type: none"> Terminal width 4.2 mm  US IEC 60947-7-1 <ul style="list-style-type: none"> Rigid 0.08 ... 1.5 mm² Flexible 0.08 ... 1.5 mm² AWG 28-16 Green/yellow 						
PE through-type terminals, terminal size 1.5 mm²						
 8WH2 000-0CE07						
 8WH2 003-0CE07						
 8WH2 004-0CE07						
<ul style="list-style-type: none"> Two clamping points,  Three clamping points Four clamping points,  						
<ul style="list-style-type: none"> Two clamping points Three clamping points Four clamping points 						


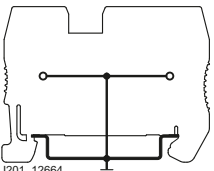
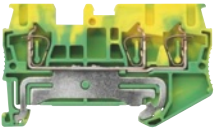
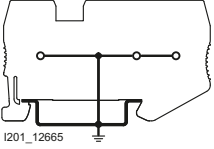

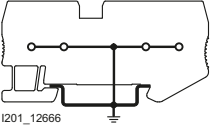
8WH through-type terminals

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
Terminal size 2.5 mm²						
 <p>8WH2 000-0AF00</p>	Through-type terminals, terminal size 2.5 mm², two clamping points <ul style="list-style-type: none"> Terminal width 5.2 mm  IEC 60947-7-1 <ul style="list-style-type: none"> Rigid 0.08 ... 4 mm² Flexible 0.08 ... 2.5 mm² AWG 28-12 I = 31 A U = 800 V 					
	Versions <ul style="list-style-type: none"> Gray Blue Orange Red Black Green White Yellow 		8WH2 000-0AF00 8WH2 000-0AF01 8WH2 000-0AF04 8WH2 000-0AF02 8WH2 000-0AF08 8WH2 000-0AF03 8WH2 000-0AF05 8WH2 000-0AF06	1 50 units 1 50 units 1 50 units 1 50 units 1 50 units 1 50 units 1 50 units 1 50 units	044 044 044 044 044 044 044	
 <p>8WH2 003-0AF00</p>	Through-type terminals, terminal size 2.5 mm², three clamping points <ul style="list-style-type: none"> Terminal width 5.2 mm  IEC 60947-7-1 <ul style="list-style-type: none"> Rigid 0.08 ... 4 mm² Flexible 0.08 ... 2.5 mm² AWG 28-12 I = 28 A The total current through all connected conductors must not exceed the max. load current U = 800 V 					
	Versions <ul style="list-style-type: none"> Gray Blue 		8WH2 003-0AF00 8WH2 003-0AF01	1 50 units 1 50 units	044 044	
 <p>8WH2 004-0AF00</p>	Through-type terminals, terminal size 2.5 mm², four clamping points <ul style="list-style-type: none"> Terminal width 5.2 mm  IEC 60947-7-1 <ul style="list-style-type: none"> Rigid 0.08 ... 4 mm² Flexible 0.08 ... 2.5 mm² AWG 28-12 I = 28 A The total current through all connected conductors must not exceed the max. load current U = 800 V 					
	Versions <ul style="list-style-type: none"> Gray Blue 		8WH2 004-0AF00 8WH2 004-0AF01	1 50 units 1 50 units	044 044	

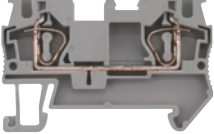

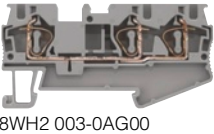

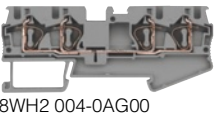

8WH2 Spring-Loaded Terminals

8WH through-type terminals

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Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
 <p>PE through-type terminals, terminal size 2.5 mm²</p> <ul style="list-style-type: none"> Terminal width 5.2 mm CSUS IEC 60947-7-2 <ul style="list-style-type: none"> Rigid 0.08 ... 4 mm² Flexible 0.08 ... 2.5 mm² AWG 28-12 Green/yellow <p>8WH2 000-OCF07</p>  <p>1201_12664 8WH2 000-OCF07</p>						
<p>Versions</p> <ul style="list-style-type: none"> Two clamping points Three clamping points Four clamping points 		<p>8WH2 000-OCF07</p> <p>8WH2 003-OCF07</p> <p>8WH2 004-OCF07</p>			<p>1 50 units 044</p> <p>1 50 units 044</p> <p>1 50 units 044</p>	
 <p>8WH2 003-OCF07</p>  <p>1201_12665 8WH2 003-OCF07</p>						
 <p>8WH2 004-OCF07</p>  <p>1201_12666 8WH2 004-OCF07</p>						


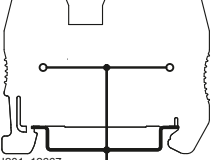

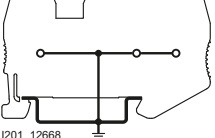

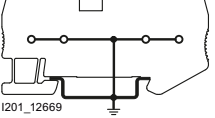
8WH through-type terminals

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
Terminal size 4 mm²						
 <p>8WH2 000-0AG00</p>	Through-type terminals, terminal size 4 mm², two clamping points <ul style="list-style-type: none"> Terminal width 6.2 mm  IEC 60947-7-1 <ul style="list-style-type: none"> Rigid 0.08 ... 6 mm², flexible 0.08 ... 4 mm², AWG 28-10 $I = 40$ A, $U = 800$ V 					
	Versions <ul style="list-style-type: none"> Gray Blue Orange Red Black Green White Yellow 					
 <p>8WH2 003-0AG00</p>	Through-type terminals, terminal size 4 mm², three clamping points <ul style="list-style-type: none"> Terminal width 6.2 mm  IEC 60947-7-1 <ul style="list-style-type: none"> Rigid 0.08 ... 6 mm², flexible 0.08 ... 4 mm², AWG 28-10 $I = 40$ A, the total current through all connected conductors must not exceed the max. load current $U = 800$ V 					
	Versions <ul style="list-style-type: none"> Gray Blue 					
 <p>8WH2 004-0AG00</p>	Through-type terminals, terminal size 4 mm², four clamping points <ul style="list-style-type: none"> Terminal width 6.2 mm  IEC 60947-7-1 <ul style="list-style-type: none"> Rigid 0.08 ... 6 mm², flexible 0.08 ... 4 mm², AWG 28-10 $I = 40$ A, the total current through all connected conductors must not exceed the max. load current $U = 800$ V 					
	Versions <ul style="list-style-type: none"> Gray Blue 					

8WH2 Spring-Loaded Terminals

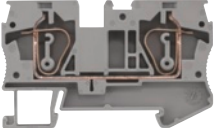

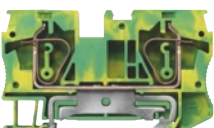

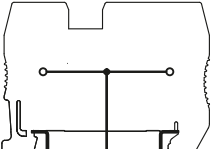


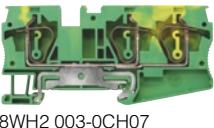

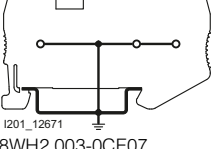


8WH through-type terminals

4

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
 <p>8WH2 000-0CG07</p>						
<p>PE through-type terminals, terminal size 4 mm²</p> <ul style="list-style-type: none"> Terminal width 6.2 mm CSUS IEC 60947-7-2 <ul style="list-style-type: none"> Rigid 0.08 ... 6 mm² Flexible 0.08 ... 4 mm² AWG 28-10 Green/yellow 						
<p>Versions</p> <ul style="list-style-type: none"> Two clamping points Three clamping points Four clamping points 						
 <p>I201_12667 8WH2 000-0CE07</p>		8WH2 000-0CG07		1	50 units	044
 <p>8WH2 003-0CG07</p>		8WH2 003-0CG07		1	50 units	044
 <p>I201_12668 8WH2 003-0CG07</p>		8WH2 004-0CG07		1	50 units	044
 <p>8WH2 004-0CG07</p>						
 <p>I201_12669 8WH2 004-0CG07</p>						

8WH through-type terminals


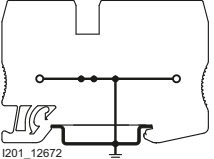

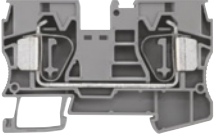


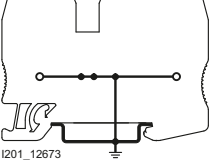

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Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
Terminal size 6 mm²						
 8WH2 000-0AH00		Through-type terminals, terminal size 6 mm², two clamping points <ul style="list-style-type: none"> Terminal width 8.2 mm  IEC 60947-7-1 <ul style="list-style-type: none"> Rigid 0.2 ... 10 mm² Flexible 0.2 ... 6 mm² AWG 24-8 I = 52 A U = 1000 V 				
Versions <ul style="list-style-type: none"> Gray Blue 						
		8WH2 000-0AH00 8WH2 000-0AH01		1 50 units	044	
 8WH2 000-0CH07		PE through-type terminals, terminal size 6 mm², two clamping points <ul style="list-style-type: none"> Terminal width 8.2 mm  IEC 60947-7-2 <ul style="list-style-type: none"> Rigid 0.2 ... 10 mm² Flexible 0.2 ... 6 mm² AWG 24-8 Green/yellow 				
Versions <ul style="list-style-type: none"> Gray Blue 						
		8WH2 000-0CH07		1 50 units	044	
 8WH2 000-0CE07						
Terminal size 6 mm², three clamping points						
 8WH2 003-0AH00		Through-type terminals, terminal size 6 mm², three clamping points <ul style="list-style-type: none"> Terminal width 8.2 mm  IEC 60947-7-1 <ul style="list-style-type: none"> Rigid 0.2 ... 10 mm² Flexible 0.2 ... 6 mm² AWG 24-8 I = 52 A The total current through all connected conductors must not exceed the max. load current U = 1000 V 				
Versions <ul style="list-style-type: none"> Gray Blue 						
		8WH2 003-0AH00 8WH2 003-0AH01		1 50 units	044	
 8WH2 003-0CH07		PE through-type terminals, terminal size 6 mm², three clamping points <ul style="list-style-type: none"> Terminal width 8.2 mm  IEC 60947-7-2 <ul style="list-style-type: none"> Rigid 0.2 ... 10 mm² Flexible 0.2 ... 6 mm² AWG 24-8 Green/yellow 				
Versions <ul style="list-style-type: none"> Gray Blue 						
		8WH2 003-0CH07		1 50 units	044	
 8WH2 003-0CE07						
Terminal size 10 mm²						
 8WH2 000-0AJ00		Through-type terminals, terminal size 10 mm² <ul style="list-style-type: none"> Terminal width 10.2 mm  IEC 60947-7-1 <ul style="list-style-type: none"> Rigid 1.5 ... 16 mm² Flexible 1.5 ... 10 mm² AWG 24-6 I = 65 A U = 1000 V 				
Versions <ul style="list-style-type: none"> Gray Blue 						
		8WH2 000-0AJ00 8WH2 000-0AJ01		1 50 units	044	
		8WH2 000-0AJ01		1 50 units	044	

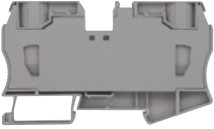




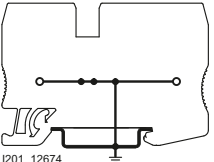




8WH2 Spring-Loaded Terminals

8WH through-type terminals

4

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
 <p>8WH2 000-0CJ07</p>  <p>8WH2 000-0CJ07</p> <p>PE through-type terminals, terminal size 10 mm²</p> <ul style="list-style-type: none"> Terminal width 10.2 mm  IEC 60947-7-2 <ul style="list-style-type: none"> - Rigid 1.5 ... 16 mm² - Flexible 1.5 ... 10 mm² - AWG 24-6 - $I = 65$ A Green/yellow 		8WH2 000-0CJ07		1	50 units	044
Terminal size 16 mm²						
 <p>8WH2 000-0AK00</p> <p>Through-type terminals, terminal size 16 mm²</p> <ul style="list-style-type: none"> Terminal width 12 mm  IEC 60947-7-1 <ul style="list-style-type: none"> - Rigid 1.5 ... 25 mm² - Flexible 1.5 ... 16 mm² - AWG 24-4 - $I = 90$ A - $U = 1000$ V <p>Versions</p> <ul style="list-style-type: none"> Gray Blue 		8WH2 000-0AK00 8WH2 000-0AK01		1	50 units	044
 <p>8WH2 000-0CK07</p>  <p>8WH2 000-0CK07</p> <p>PE through-type terminals, terminal size 16 mm²</p> <ul style="list-style-type: none"> Terminal width 12 mm  IEC 60947-7-2 <ul style="list-style-type: none"> - Rigid 1.5 ... 25 mm² - Flexible 1.5 ... 16 mm² - AWG 24-4 - $I = 90$ A Green/yellow 		8WH2 000-0CK07		1	25 units	044

8WH through-type terminals

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
Terminal size 35 mm²						
 8WH2 000-0AM00		Through-type terminals, terminal size 35 mm² <ul style="list-style-type: none"> Terminal width 16 mm  IEC 60947-7-1 <ul style="list-style-type: none"> Rigid 2.5 ... 35 mm² Flexible 2.5 ... 35 mm² AWG 14-2 I = 125 A U = 1000 V Enclosed at both ends 				
Versions						
<ul style="list-style-type: none"> Gray,  Blue 		8WH2 000-0AM00 8WH2 000-0AM01		1	10 units	044
 8WH2 000-0CM07		PE through-type terminals, terminal size 35 mm² <ul style="list-style-type: none"> Terminal width 16 mm  IEC 60947-7-2 <ul style="list-style-type: none"> Rigid 2.5 ... 35 mm² Flexible 2.5 ... 35 mm² AWG 14-2 I = 125 A Enclosed at both ends Green/yellow 				
Versions						
		8WH2 000-0CM07		1	10 units	044
 8WH2 000-0CM07						
Accessories						
 8WH9 070-0AA00		Compartment partitions <ul style="list-style-type: none"> For visual and electrical separation of terminal groups 2 mm thick 				
Versions						
		<ul style="list-style-type: none"> For terminal size 1.5 ... 4 mm² and two clamping points For terminal size 1.5 ... 4 mm² and three clamping points For terminal size 1.5 ... 4 mm² and four clamping points For terminal size 6 mm² 	8WH9 070-0AA00 8WH9 070-0GA00 8WH9 070-0HA00 8WH9 070-0DA00	100	50 units	044
 8WH9 000-1GA00		Covers Gray				
Versions						
		<ul style="list-style-type: none"> For terminal size 1.5 ... 2.5 mm² and two clamping points For terminal size 1.5 ... 2.5 mm² and three clamping points For terminal size 1.5 ... 2.5 mm² and four clamping points For terminal size 4 mm² and two clamping points For terminal size 4 mm² and three clamping points For terminal size 4 mm² and four clamping points For terminal size 6 mm² and two clamping points For terminal size 6 mm² and three clamping points For terminal size 10 mm² For terminal size 16 mm² 	8WH9 000-1GA00 8WH9 000-2GA00 8WH9 000-4GA00 8WH9 003-1GA00 8WH9 003-2GA00 8WH9 003-4GA00 8WH9 004-1GA00 8WH9 004-2GA00 8WH9 005-1GA00 8WH9 006-1GA00	100	50 units	044
 8WH9 000-0GA00		Cover segments <ul style="list-style-type: none"> Gray For covering multi-wire terminals when mounting two-wire terminals side-by-side 				
Versions						
		<ul style="list-style-type: none"> For terminal size 1.5 ... 2.5 mm² For terminal size 4 mm² 	8WH9 000-0GA00 8WH9 003-0GA00	100	10 units	044
 8WH9 061-5AA06		Warning covers Note: For the operating shafts of 8WH2 through-type terminals				
Versions						
		<ul style="list-style-type: none"> For terminal size 1.5 mm² For terminal size 2.5 mm² For terminal size 4 mm² For terminal size 6 mm² For terminal size 10 mm² For terminal size 16 mm² For terminal size 35 mm² 	8WH9 061-5AA06 8WH9 060-5AA06 8WH9 063-5AA06 8WH9 064-5AA06 8WH9 065-5AA06 8WH9 066-5AA06 8WH9 067-5AA06	100	50 units	044

Note:

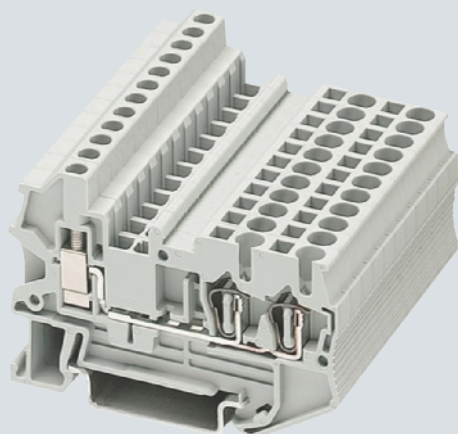
For general accessories for 8WH terminal blocks, see chapter 8.

* You can order this quantity or a multiple thereof.

8WH2 Spring-Loaded Terminals

8WH hybrid through-type terminals

Overview



The terminal connection compartment, on the spring-loaded side as well as on the screw side, enables connection to a nominal cross-section of 2.5 mm² or 4 mm², with or without end sleeves. The advantages of the different connection types are due to the fact that the spring-loaded terminal of the hybrid through-type terminal is used inside the control cabinet and the universal screw terminal is used at the end-user's side. A PE terminal with the same contour is available for the three-wire terminal. Contact is made by simply snapping the terminal onto the support rail.

This meets the requirements of IEC 60947-7-2:

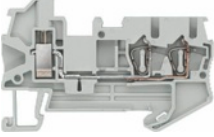
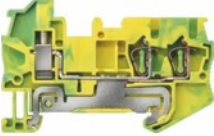
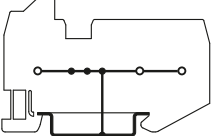
- Low contact resistance
- Stainless clamping points
- Green-yellow enclosure
- Additional inscription options.

A label can be snapped on to the middle of each terminal at the front. Further labels can also be mounted flat on the side of the terminals.

Technical specifications

	8WH2 103-2BF00 8WH2 103-2BF01	8WH2 103-3BF07	8WH2 103-2BG00 8WH2 103-2BG01	8WH2 103-3BG07
Dimensions				
• Width/length/cover width in mm	5.2 / 65.3 / 2.2		6.2 / 74.4 / 2.2	
• Height (NS 35/7.5 / NS 35/15) in mm	42.8 / 50.3			
Technical specifications acc. to IEC/DIN VDE				
• Max. load current in A / cross-section in mm ²	28 / 4	--	32 / 6	--
• Rated impulse withstand voltage in kV / pollution degree	8 / 3			
• Overvoltage category / molded plastic group	III / I			
Connection capacities				
• Flexible with end sleeve, with plastic sleeve in mm ²	0.25 ... 2.5		0.25 ... 4	
• Flexible with end sleeve, without plastic sleeve in mm ²	0.25 ... 2.5		0.25 ... 4	
• Flexible with two-wire connection end sleeve, with plastic sleeve in mm ²	0.5 ... 1			
Stripped length in mm	10			
Plug gauge (IEC 60947-1)	A3		A4	
Connection capacity of screw terminal				
• Flexible with end sleeves with/without plastic sleeve in mm ²	0.25 ... 2.5 / 0.25 ... 2.5		0.25 ... 4 / 0.25 ... 4	
Multi-conductor connection (two conductors of same cross-section)				
• Rigid/flexible in mm ²	0.14 ... 1.5 / 0.14 ... 1.5			
• Flexible with end sleeve, without plastic sleeve in mm ²	0.25 ... 1.5			
• Flexible with two-wire connection end sleeve, with plastic sleeve in mm ²	0.5 ... 1.5		0.5 ... 2.5	
Stripped length in mm	9			
Plug gauge (IEC 60947-1)	A3		A4	
Tightening torque in Nm	0.6 ... 0.8		0.6...0.8	
Molded plastic type	PA			
• Flammability class acc. to UL 94	V0			
Approval data (UL/cUL and CSA)				
• Rated voltage / rated current / conductor sizes				
- UL/cUL: in V/A / AWG	Applied for			
- CSA: in V/A / AWG	Applied for			
Support rails/protective conductor busbars	--	See section "Support rails" on page 1/3	--	See section "Support rails" on page 1/3

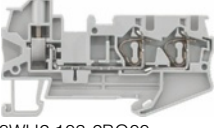
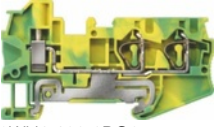

Selection and ordering data

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
Terminal size 2.5 mm²						
 <p>8WH2 103-2BF00</p>	Hybrid through-type terminals, terminal size 2.5 mm² <ul style="list-style-type: none"> Terminal width 5.2 mm IEC 60947-7-1 Spring <ul style="list-style-type: none"> Rigid 0.08 ... 4 mm² Flexible 0.08 ... 2.5 mm² AWG 28-12 I = 28 A The total current through all connected conductors must not exceed the max. load current U = 800 V Screw <ul style="list-style-type: none"> Rigid 0.14 ... 4 mm² Flexible 0.14 ... 2.5 mm² AWG 26-14 I = 28 A U = 800 V 					
	Versions <ul style="list-style-type: none"> Gray Blue 		8WH2 103-2BF00 8WH2 103-2BF01		1 50 units 1 50 units	044 044
 <p>8WH2 103-3BF07</p>	PE hybrid through-type terminals, terminal size 2.5 mm² <ul style="list-style-type: none"> Terminal width 5.2 mm IEC 60947-7-2 Spring <ul style="list-style-type: none"> Rigid 0.08 ... 4 mm² Flexible 0.08 ... 2.5 mm² AWG 28-12 Screw <ul style="list-style-type: none"> Rigid 0.14 ... 4 mm² Flexible 0.14 ... 2.5 mm² AWG 26-14 					
 <p>I201_12675 8WH2 103-3BF07</p>	8WH2 103-3BF07			1 50 units	044	

8WH2 Spring-Loaded Terminals

8WH hybrid through-type terminals

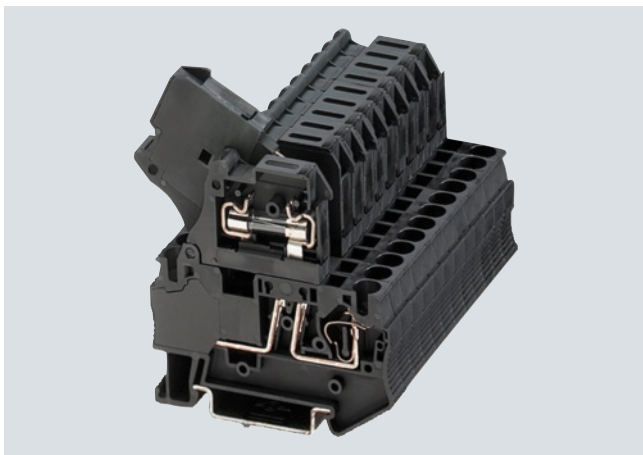
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Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
Terminal size 4 mm²						
 <p>8WH2 103-2BG00</p> <p>Hybrid through-type terminals, terminal size 4 mm²</p> <ul style="list-style-type: none"> Terminal width 6.2 mm IEC 60947-7-1 Spring <ul style="list-style-type: none"> Rigid 0.08 ... 6 mm² Flexible 0.08 ... 4 mm² AWG 28-10 I = 32 A The total current through all connected conductors must not exceed the max. load current U = 800 V Screw <ul style="list-style-type: none"> Rigid 0.14 ... 6 mm² Flexible 0.14 ... 4 mm² AWG 26-10 I = 32 A U = 800 V <p>Versions</p> <ul style="list-style-type: none"> Gray Blue 						
 <p>8WH2 103-3BG07</p> <p>PE hybrid through-type terminals, terminal size 4 mm²</p> <ul style="list-style-type: none"> Terminal width 6.2 mm IEC 60947-7-2 Spring <ul style="list-style-type: none"> Rigid 0.08 ... 6 mm² Flexible 0.08 ... 4 mm² AWG 28-10 Screw <ul style="list-style-type: none"> Rigid 0.14 ... 6 mm² Flexible 0.14 ... 4 mm² AWG 26-10 <p>1201_12676</p> <p>8WH2 103-3BG07</p>						
Accessories						
 <p>8WH9 000-2HA00</p> <p>Covers</p> <p>Gray</p> <p>Versions</p> <ul style="list-style-type: none"> For terminal size 2.5 mm² and three clamping points For terminal size 4 mm² and three clamping points 						
		8WH2 103-2BG00		1	50 units	044
		8WH2 103-2BG01		1	50 units	044
		8WH2 103-3BG07		1	50 units	044
		8WH9 000-2HA00		100	50 units	044
		8WH9 003-2HA00		100	50 units	044

Note:

For general accessories for 8WH terminal blocks, [see chapter 8](#).

Overview

**Fuse terminals for blade-type fuses**

The fuse terminals for blade-type fuses accommodate blade-type fuses according to ISO/DIS 8820 / DIN 72581-3. Terminals with LED display are available for fast fault diagnosis "at a glance".

Fuse terminals for G fuse links

Fuse terminals perform two important tasks in connected electrical systems. Firstly, they act as a fuse carrier and, secondly, as a potential distributor.

The full-length bridge shaft enables uninterrupted bridging between the through-type terminals and the fuse terminals.

Fuse terminals for G fuse links are available for standardized electrical fuse formats 5 × 20 mm and 6.3 × 32 mm (inch fuse) – and are optionally available with LED display to signal a blown fuse.

A label can be snapped on to the middle of the terminal at the front. Further labels can also be mounted flat on the side of the terminals.

Technical specifications



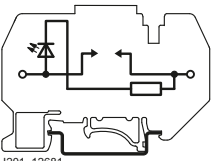

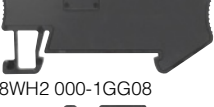



	8WH2 000-1AG08 8WH2 000-1BG28 8WH2 000-1BG38	8WH2 000-1GG08 8WH2 000-1JG38 8WH2 000-1JG68 8WH2 000-1MG08	8WH2 000-1HG08 8WH2 000-1NG38 8WH2 000-1NG68 8WH2 000-1RG08
Dimensions			
• Width/length in mm	8.2 / 86.5	6.2 / 61.5	8.2 / 76.5
• Height (NS 35/7.5 / NS 35/15) in mm	43.5 / 51	62.5 / 70	69 / 76.5
Technical specifications acc. to IEC/DIN VDE			
• Fuse type ISO/DIS 8820 / DIN 72581-3 / dimensions / in mm	C	G / 5 × 20	G / 6.3 × 32
• Maximum current for single arrangement in A	30	3.3	10
Max. power loss at 23 °C acc. to IEC 60647-7-3 in W ¹⁾			
• U in V	--	250	400
• Overload protection			
- Individually in W	--	1.6	
- As group in W	--	1.6	
• Without short-circuit protection			
- Individually in W	--	4	
- As group in W	--	2.5	
• I _{max} in A	--	6.3	10
• Rated impulse withstand voltage in kV / pollution degree	6 / 3	4 / 3	6 / 3
• Overvoltage category / molded plastic group	III / 1		
Connection capacities			
• Flexible with end sleeve without/with plastic sleeve in mm ²	0.25 ... 4 / 0.25 ... 4		
• Flexible with two-wire connection end sleeve, with plastic sleeve in mm ²	0.5		
Stripped length in mm	10		
Plug gauge (IEC 60947-1)	A4	A3	A4
Molded plastic type	PA		
• Flammability class acc. to UL 94	V0		
Approval data (UL/cUL and CSA)			
• Rated voltage / rated current / conductor sizes			
- UL/cUL: in V/A / AWG	600 / 30 / 24-10	300 / 6.3 / 24-10	300 / 10 / 24-10
- CSA: in V/A / AWG	--		

¹⁾ Please note: The G fuse holders must be selected according to the maximum power loss (heat dissipation) of the G fuse links. Depending on the application and method of installation, the heat rise conditions in closed fuse holders must be tested. Higher ambient temperatures represent an additional load for the fuse links. A shift in rated current should therefore be taken into account in such applications. When selecting G fuse links, make sure that they do not exceed the specified maximum power loss. For specification details, contact the fuse manufacturer.

8WH2 Spring-Loaded Terminals

8WH fuse terminals

Selection and ordering data

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
Terminal size 4 mm²						
 8WH2 000-1AG08  8WH2 000-1BG28  1201_12681 8WH2 000-1BG28	Fuse terminals, terminal size 4 mm², for blade-type fuses acc. to ISO/DIS8820/DIN72581-3 <ul style="list-style-type: none"> Terminal width 8.2 mm C_{US} Connection data <ul style="list-style-type: none"> Rigid 0.08 ... 6 mm² Flexible 0.08 ... 4 mm² AWG 28-10 I = 30 A U = 400 V Enclosed at both ends Versions <ul style="list-style-type: none"> Without LED display LED display 12 V LED display 24 V 					
		8WH2 000-1AG08		1	50 units	044
		8WH2 000-1BG28		1	50 units	044
		8WH2 000-1BG38		1	50 units	044
Fuse terminals, terminal size 4 mm², for 5 x 20 mm G fuse links						
 8WH2 000-1GG08  8WH2 000-1JG38  8WH2 000-1MG08	Fuse terminals, terminal size 4 mm², for 5 x 20 mm G fuse links <ul style="list-style-type: none"> Terminal width 6.2 mm C_{US} IEC 60947-7-3 With fuse <ul style="list-style-type: none"> Rigid 0.08 ... 6 mm², flexible 0.08 ... 4 mm², AWG 28-10 I_{max} = 6.3 A, only short-circuit protection, single 4 W, group 2.5 W U = 250 V, overload protection, single 4 W, group 1.6 W As isolating terminal <ul style="list-style-type: none"> Rigid 0.08 ... 6 mm², flexible 0.08 ... 4 mm², AWG 28-10 I = 6.3 A, U = 250 V Enclosed at both ends Versions <ul style="list-style-type: none"> Without LED display LED display 15 to 30 V LED display 30 to 60 V LED display 110 to 250 V 					
		8WH2 000-1GG08		1	50 units	044
		8WH2 000-1JG38		1	50 units	044
		8WH2 000-1JG68		1	50 units	044
		8WH2 000-1MG08		1	50 units	044
Fuse terminals, terminal size 4 mm², for G fuse links 6.3 x 32 mm (inch fuses)						
 8WH2 000-1HG08	Fuse terminals, terminal size 4 mm², for G fuse links 6.3 x 32 mm (inch fuses) <ul style="list-style-type: none"> Terminal width 8.2 mm C_{US} IEC 60947-7-3 With fuse <ul style="list-style-type: none"> Rigid 0.08 ... 6 mm², flexible 0.08 ... 4 mm², AWG 28-10 I = 10 A, U = 400 V Current and voltage are determined by the fitted fuse or the selected LED display As isolating terminal <ul style="list-style-type: none"> Rigid 0.08 ... 6 mm², flexible 0.08 ... 4 mm², AWG 28-10 I = 10 A, U = 400 V Enclosed at both ends Versions <ul style="list-style-type: none"> Without LED display With LED display 100 V to 250 V 					
		8WH2 000-1HG08		1	50 units	044
		8WH2 000-1RG08		1	50 units	044
Accessories						
 8WH9 070-0AA00	Compartment partitions, for terminal sizes 1.5 and 4 mm² Versions <ul style="list-style-type: none"> Two clamping points Three clamping points (inch fuse) 					
		8WH9 070-0AA00		100	50 units	044
		8WH9 070-0KA00		100	50 units	044

Note:

For general accessories for 8WH terminal blocks, [see chapter 8](#).

Overview



Through-type terminals with isolating blade capability are the most commonly used terminal types in measuring and control technology.

The isolating blade terminals with nominal cross-section of 2.5 mm² are characterized in particular by their slim design of 5.2 mm and their high current-carrying capacity of 16 A. In addition the terminals provide a test tap parallel to the isolation point for 2.3 mm \varnothing test plugs. Potential distributors can be conveniently assembled using connecting combs.

Terminals with three and four clamping points are available for multi-conductor connection. With their compact design these terminals can also be used in small terminal boxes and their front connection arrangement enables user-friendly wiring.

The isolating blade is secured to the terminal so that it cannot be lost.

A label can be snapped on to the middle of the terminal at the front. Further labels can also be mounted flat on the side of the terminals.

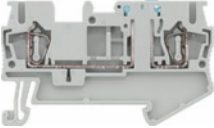
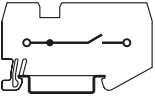

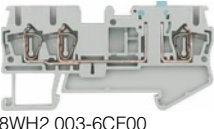
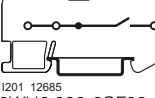

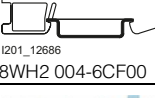



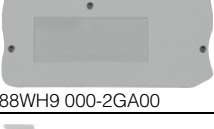

Technical specifications

	8WH2 000-6CF00	8WH2 500-6CF00	8WH2 003-6CF00	8WH2 004-6CF00	8WH2 000-6CG00
Dimensions					
• Width/length/cover width in mm	5.2 / 60.5 / 2.2	5.2 / 51 / 2.2	5.2 / 72 / 2.2	5.2 / 84 / 2.2	6.2 / 61.5 / --
• Height (NS 35/7.5 / NS 35/15) in mm	36.5 / 44	43 / 50.5	36.5 / 44		
Technical specifications acc. to IEC/DIN VDE					
• Max. load current in A / cross-section in mm ²	16 / 4				16 / 6
• Maximum data // rated data in A / mm ²	--				
• Rated impulse withstand voltage in kV / pollution degree	6 / 3				
• Overvoltage category / molded plastic group	III / I				
Connection capacities					
• Flexible with end sleeve, with plastic sleeve in mm ²	0.25... 2.5				0.25 ... 4
• Flexible with end sleeve, without plastic sleeve in mm ²	0.25 ... 2.5				0.25 ... 4
• Flexible with two-wire connection end sleeve, with plastic sleeve in mm ²	0.5				
Stripped length in mm	10				
Plug gauge (IEC 60947-1)	A4	A3	A4	A3	
Molded plastic type	PA				
• Flammability class acc. to UL 94	V0				
Approval data (UL/cUL and CSA)					
• Rated voltage / rated current / conductor sizes					
- UL/cUL: in V/A / AWG	600 / 16 / 26-12	600 / 16 / 24-12	600 / 16 / 26-12		300 / 6.3 / 24-10
- CSA: in V/A / AWG	--				

8WH2 Spring-Loaded Terminals

8WH isolating blade terminals

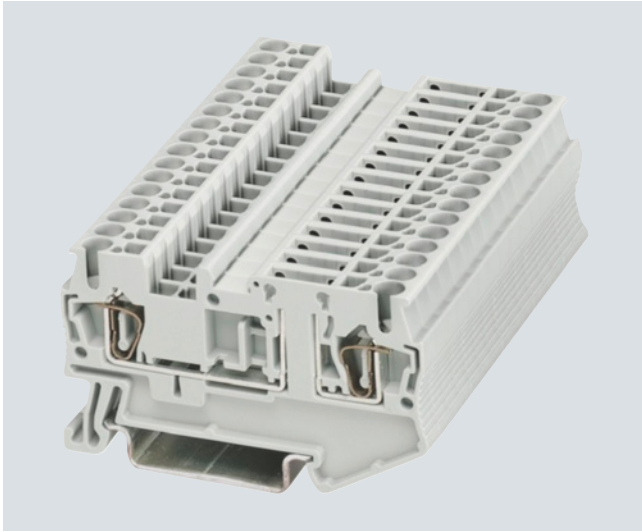
Selection and ordering data

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
Terminal size 2.5 mm²						
 <p>8WH2 000-6CF00</p>  <p>I201_12684 8WH2 000-6CF00</p>						
Isolating blade terminals, terminal size 2.5 mm² <ul style="list-style-type: none"> Terminal width 5.2 mm  <ul style="list-style-type: none"> IEC 60947-7-1 <ul style="list-style-type: none"> Rigid 0.08 ... 4 mm² Flexible 0.08 ... 2.5 mm² AWG 28-12 I = 16 A U = 400 V For 3 and 4 clamping points: <ul style="list-style-type: none"> Rigid 0.14 ... 4 mm² Flexible 0.14 ... 2.5 mm² AWG 26-14 						
Versions <ul style="list-style-type: none"> Gray <ul style="list-style-type: none"> Two clamping points Three clamping points Four clamping points 						
Note On terminals with three and four clamping points, the total current through all connected conductors must not exceed the max. load current.						
 <p>8WH2 003-6CF00</p>  <p>I201_12685 8WH2 003-6CF00</p>						
 <p>8WH2 004-6CF00</p>  <p>I201_12686 8WH2 004-6CF00</p>						
					1 50 units 044 1 50 units 044 1 50 units 044	
Isolating blade terminals, size 4mm², two clamping points						
 <p>8WH2 000-6CG00</p>						
<ul style="list-style-type: none"> Gray Terminal width 6.2 mm  <ul style="list-style-type: none"> IEC 60947-7-1 <ul style="list-style-type: none"> Rigid 0.08 ... 6 mm², flexible 0.08 ... 4 mm², AWG 28-10 I = 16 A, U = 400 V Enclosed at both ends 						
					1 50 units 044	
Accessories						
Compartment partitions, for terminal size 1.5 to 4 mm²						
 <p>8WH9 070-0AA00</p>						
Versions <ul style="list-style-type: none"> Two clamping points Three clamping points Four clamping points 						
					100 50 units 044 100 50 units 044 100 50 units 044	
Covers, for terminal sizes 1.5 ... 2.5 mm²						
 <p>88WH9 000-2GA00</p>						
Versions <ul style="list-style-type: none"> For two clamping points For three clamping points For four clamping points 						
					100 50 units 044 100 50 units 044 100 50 units 044	
 <p>8WH9 000-0GA00</p>						
Cover segments, for terminal size 2.5 mm² and three or four clamping points						
					100 10 units 044	

Note:

For general accessories for 8WH terminal blocks, see chapter 8.

Overview



The isolating terminals are available with the same contour as the isolating blade terminals. The terminals excel with their narrow width of only 5.2 mm and their high current load rating of 16 A.

There is a test option for 2.3 mm \varnothing test plugs at both ends of the isolating point.

The 6.2 mm wide isolating terminal with terminal size 4 mm² is a base terminal for accommodating:

- Isolating plugs
- Through-type connectors
- Fused connectors
- Component connectors

A label can be snapped on to the middle of the terminal at the front. Further labels can also be mounted flat on the side of the terminals.

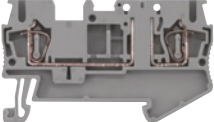
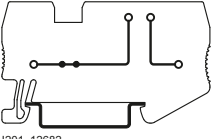
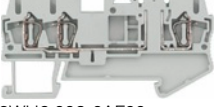


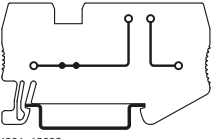



Technical specifications

	8WH2 000-6AF00	8WH2 500-6AF00	8WH2 003-6AF00	8WH2 004-6AF00	8WH2 000-6AG00
Dimensions					
• Width/length/cover width in mm	5.2 / 60.5 / 2.2	5.2 / 51 / 2.2	5.2 / 72 / 2.2	5.5 / 84 / 2.2	6.2 / 61.5 / --
• Height (NS 35/7.5 / NS 35/15) in mm	36.5 / 44	43 / 50.5	36.5 / 44		
Technical specifications acc. to IEC/DIN VDE					
• Max. load current in A / cross-section in mm ²	16 / 4				16 / 6
• Rated impulse withstand voltage in kV / pollution degree	6 / 3				
• Overvoltage category / molded plastic group	III / I				
Connection capacities					
• Flexible with end sleeve, with plastic sleeve in mm ²	0.25 ... 2.5				0.25 ... 4
• Flexible with end sleeve, without plastic sleeve in mm ²	0.25 ... 2.5				0.25 ... 4
• Flexible with two-wire connection end sleeve, with plastic sleeve in mm ²	0.5				
Stripped length in mm	10				
Plug gauge (IEC 60947-1)	A3				A4
Molded plastic type	PA				
• Flammability class acc. to UL 94	V0				
Approval data (UL/cUL and CSA)					
• Rated voltage / rated current / conductor sizes					
- UL/cUL: in V/A / AWG	300 / 16 / 26-12	300 / 16 / 24-12	300 / 16 / 26-12		300 / 6.3 / 24-10
- CSA: in V/A / AWG	--				

8WH2 Spring-Loaded Terminals

8WH isolating terminals

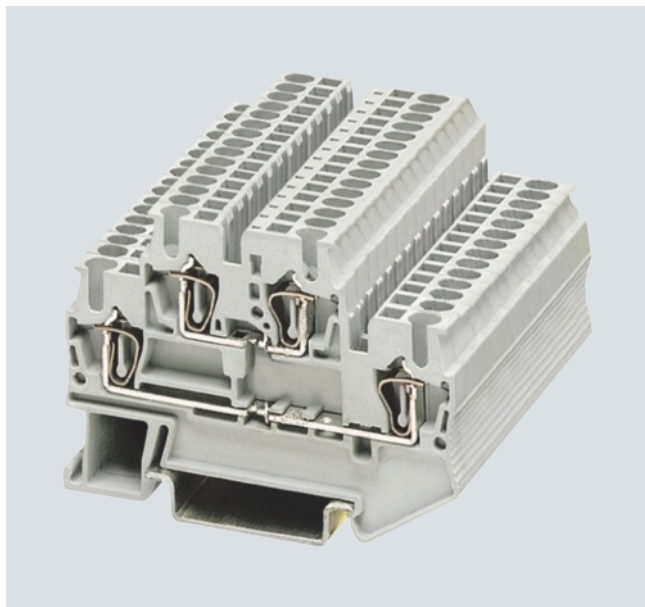
Selection and ordering data

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
Terminal size 2.5 mm²						
 <p>8WH2 000-6AF00</p>  <p>I201_12682 8WH2 000-6AF00</p>  <p>8WH2 003-6AF00</p>  <p>8WH2 004-6AF00</p>		Isolating terminals, terminal size 2.5 mm² <ul style="list-style-type: none"> • Gray • Terminal width 5.2 mm • cULus • IEC 60947-7-1 <ul style="list-style-type: none"> - Rigid 0.08 ... 4 mm² - Flexible 0.08 ... 2.5 mm² - AWG 28-12 - Current and voltage are determined by the fitted plug - $I = 16\text{ A}$ - $U = 400\text{ V}$ Versions <ul style="list-style-type: none"> • Two clamping points • Three clamping points • Four clamping points 				
		8WH2 000-6AF00		1	50 units	044
		8WH2 003-6AF00		1	50 units	044
		8WH2 004-6AF00		1	50 units	044
Terminal size 4 mm²						
 <p>8WH2 000-6AG00</p>  <p>I201_12682 8WH2 000-6AG00</p>		Isolating terminals, terminal size 4 mm², two clamping points <ul style="list-style-type: none"> • Gray • Terminal width 6.2 mm • cULus • IEC 60947-7-1 <ul style="list-style-type: none"> - Rigid 0.08 ... 6 mm² - Flexible 0.08 ... 4 mm² - AWG 28-10 - Current and voltage are determined by the fitted plug - $I = 16\text{ A}$ - $U = 400\text{ V}$ • Enclosed at both ends 				
		8WH2 000-6AG00		1	50 units	044
Accessories						
 <p>8WH9 070-0GA00</p>		Compartment partitions Versions <ul style="list-style-type: none"> • For terminal size 2.5 mm² <ul style="list-style-type: none"> - For three clamping points - For four clamping points • For terminal size 4 mm² <ul style="list-style-type: none"> - For two clamping points 				
		8WH9 070-0GA00		100	50 units	044
		8WH9 070-0HA00		100	50 units	044
		8WH9 070-0AA00		100	50 units	044
 <p>8WH9 000-2GA00</p>		Covers Gray Versions <ul style="list-style-type: none"> • For terminal size 1.5 ... 2.5 mm² and two clamping points • For terminal size 2.5 mm² and three clamping points • For terminal size 2.5 mm² and four clamping points 				
		8WH9 000-2GA00		100	50 units	044
		8WH9 000-4GA00		100	50 units	044
		8WH9 000-5GA00		100	50 units	044
 <p>8WH9 000-0GA00</p>		Cover segments, for terminal size 1.5 mm² and 2.5 mm² and three or four clamping points Gray				
		8WH9 000-0GA00		100	10 units	044

Note:

For general accessories for 8WH terminal blocks, see chapter 8.

Overview

**Standard two-tier terminals**

With the two voltage levels routed through two separate tiers, the two-tier terminals require 50% less space than equivalent single-tier terminals. To implement a wide range of wiring tasks, connecting combs can be fitted to both tiers of the spring-loaded terminal series. Facilities for inscription are provided at each clamping point.

PE/ground conductor function

Perfect mechanical and electrical contact with the support rail is provided by simply snapping the terminals onto the rail.

The PE two-tier terminals meet all the requirements of IEC 60947-7-2:

- Low contact resistance
- Stainless clamping points
- Green-yellow enclosure
- Additional inscription options.

PE/L and PE/N types

The PE/L and PE/N types provide a PE/ground contact to the support rail in the lower tier. The upper tier is designed as a through-type tier. Color coding of the PE and neutral tiers enables clear and unambiguous distribution of the potential.

The clamping points of two-tier terminals can be inscribed with flat labels.

Technical specifications

	8WH2 020-0AE00 8WH2 020-0AE01 8WH2 025-0AE00	8WH0 020-0CE07	8WH2 020-0AF00 8WH2 020-0AF01 8WH2 025-0AF00	8WH2 023-0AF00 8WH2 023-0AF01 8WH2 022-0AF00	8WH2 020-0CF07
Dimensions					
• Width/length/cover width in mm	4.2 / 67.5 / 2.2		5.2 / 67.5 / 2.2	5.2 / 91.5 / 2.2	5.2 / 67.5 / 2.2
• Height (NS 35/7.5 / NS 35/15) in mm	47.5 / 55				
Technical specifications acc. to IEC/DIN VDE					
• Max. load current in A / cross-section in mm ²	17.5 / 1.5	--	26 / 4	--	--
• Maximum data / rated data in A / mm ²	--			26 / 4 // 22 / 2.5	--
• Rated impulse withstand voltage in kV / pollution degree	6 / 3				
• Overvoltage category / molded plastic group	III / I				
Connection capacities					
• Flexible with end sleeve, with plastic sleeve in mm ²	0.25 ... 1.5		0.25 ... 2.5		
• Flexible with end sleeve, without plastic sleeve in mm ²	0.25 ... 1.5		0.25 ... 2.5		
• Flexible with two-wire connection end sleeve, with plastic sleeve in mm ²	0.5				
Stripped length in mm	10				
Plug gauge (IEC 60947-1)	A1		A3		
Molded plastic type	PA				
• Flammability class acc. to UL 94	V0				
Approval data (UL/cUL and CSA)					
• Rated voltage / rated current / conductor sizes					
- UL/cUL: in V/A / AWG	300 / 15 / 26-14	-- / -- / 26-14	600 / 20 / 26-12	300 / 20 / 26-12	-- / -- / 26-12
- CSA: in V/A / AWG	300 / 15 / 26-14	-- / -- / 26-14	--		-- / -- / 26-12
Support rails/protective conductor busbars	--	See section "Support rails" on page 1/3	--		See section "Support rails" on page 1/3

8WH2 Spring-Loaded Terminals

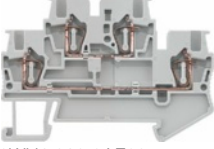
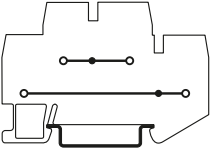
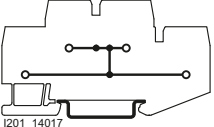
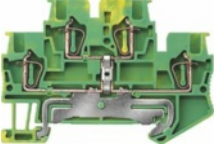
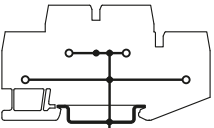
8WH two-tier terminals

4

	8WH2 023-0CF07	8WH2 020-4AF00	8WH2 020-4BF00
Dimensions			
• Width/length/cover width in mm	5.2 / 91.5 / 2.2	5.2 / 67.5 / 2.2	
• Height (NS 35/7.5 / NS 35/15) in mm	47.5 / 55		
Technical specifications acc. to IEC/DIN VDE			
• Max. load current in A / cross-section in mm ²	--	32 / 4	
• Rated impulse withstand voltage in kV / pollution degree	6 / 3		
• Overvoltage category / molded plastic group	III / I		
Connection capacities			
• Flexible with end sleeve, with plastic sleeve in mm ²	0.25 ... 2.5		
• Flexible with end sleeve, without plastic sleeve in mm ²	0.25 ... 2.5		
• Flexible with two-wire connection end sleeve, with plastic sleeve in mm ²	0.5		
Stripped length in mm	10		
Plug gauge (IEC 60947-1)	A3		
Molded plastic type	PA		
• Flammability class acc. to UL 94	V0		
Approval data (UL/cUL and CSA)			
• Rated voltage / rated current / conductor sizes			
- UL/cUL: in V/A / AWG	-- / -- / 26-12	300 / 20 / 26-12	--
- CSA: in V/A / AWG	-- / -- / 26-12	--	
Support rails/protective conductor busbars	See section "Support rails" on page 1/3	--	

	8WH2 020-4CF00	8WH2 020-0AG00 8WH2 020-0AG01 8WH2 025-0AG00	8WH2 020-0CG07
Dimensions			
• Width/length/cover width in mm	5.2 / 67.5 / 2.2	6.2 / 83.5 / 2.2	6.2 / 83.5 / 2.2
• Height (NS 35/7.5 / NS 35/15) in mm	47.5 / 55		
Technical specifications acc. to IEC/DIN VDE			
• Max. load current in A / cross-section in mm ²	26 / 4	32 / 6	--
• Rated impulse withstand voltage in kV / pollution degree	6 / 3		
• Overvoltage category / molded plastic group	III / I		
Connection capacities			
• Flexible with end sleeve, with plastic sleeve in mm ²	0.25 ... 2.5	0.25 ... 4	0.25 ... 4
• Flexible with end sleeve, without plastic sleeve in mm ²	0.25 ... 2.5	0.25 ... 4	0.25 ... 4
• Flexible with two-wire connection end sleeve, with plastic sleeve in mm ²	0.5	0.5 ... 1	0.5 ... 1
Stripped length in mm	10		
Plug gauge (IEC 60947-1)	A3	A4	
Molded plastic type	PA		
• Flammability class acc. to UL 94	V0		
Approval data (UL/cUL and CSA)			
• Rated voltage / rated current / conductor sizes			
- UL/cUL: in AWG	300 / 20 / 26-12	300 / 30 / 20-10	20-10
- CSA: in AWG	-- / -- / 26-12		20-10
Support rails/protective conductor busbars	--		See section "Support rails" on page 1/3

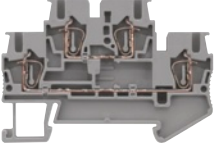
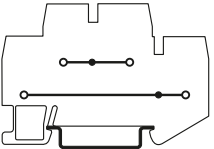
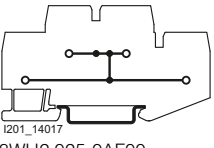
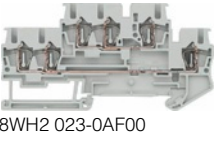
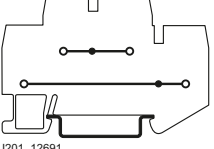
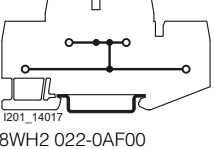

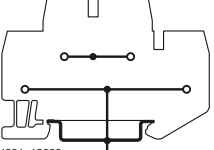
Selection and ordering data

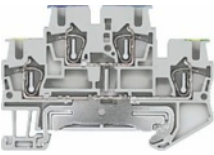
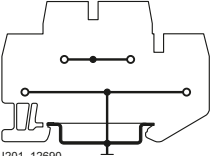
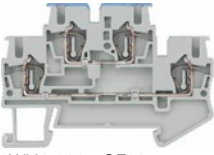
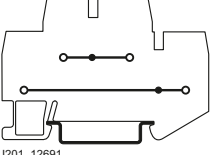




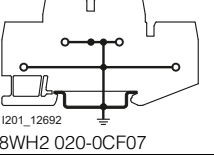



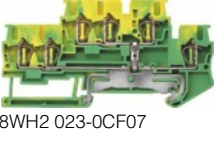
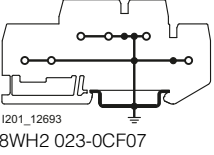



Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
Terminal size 1.5 mm²						
 8WH2 020-0AE00  I201_12691 8WH2 020-0AE00  I201_14017 8WH2 025-0AE00	Two-tier terminals, terminal size 1.5 mm² <ul style="list-style-type: none"> Terminal width 4.2 mm UL US, Ⓢ IEC 60947-7-1 <ul style="list-style-type: none"> Rigid 0.08 ... 1.5 mm² Flexible 0.08 ... 1.5 mm² AWG 28-16 I = 17.5 A The total current through all connected conductors must not exceed the max. load current U = 500 V Versions <ul style="list-style-type: none"> Gray <ul style="list-style-type: none"> Without equipotential bonding, 2-pole Ⓢ With equipotential bonding, 1-pole Blue, 2-pole 					
 8WH2 020-0CE07  I201_12688 8WH2 020-0CE07	PE two-tier terminals, terminal size 1.5 mm² <ul style="list-style-type: none"> Terminal width 4.2 mm UL US, Ⓢ IEC 60947-7-1 <ul style="list-style-type: none"> Rigid 0.08 ... 1.5 mm² Flexible 0.08 ... 1.5 mm² AWG 28-16 Green/yellow 	8WH2 020-0CE07			1 50 units	044

8WH2 Spring-Loaded Terminals

8WH two-tier terminals

4

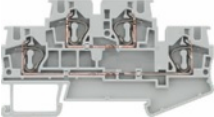
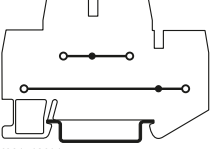
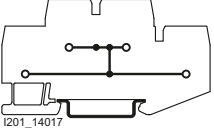


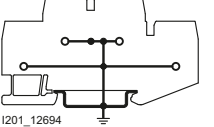

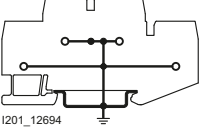



Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	
Terminal size 2.5 mm²							
 <p>8WH2 020-0AF00</p>  <p>1201_12691 8WH2 020-0AF00</p>  <p>1201_14017 8WH2 025-0AF00</p>		<p>Two-tier terminals, terminal size 2.5 mm²</p> <ul style="list-style-type: none"> Terminal width 5.2 mm <ul style="list-style-type: none"> <ul style="list-style-type: none"> IEC 60947-7-1 <ul style="list-style-type: none"> Rigid 0.08 ... 4 mm² Flexible 0.08 ... 2.5 mm² AWG 28-12 I = 26 A The total current through all connected conductors must not exceed the max. load current U = 500 V <p>Versions</p> <ul style="list-style-type: none"> Gray <ul style="list-style-type: none"> Without equipotential bonding, 2-pole With equipotential bonding, 1-pole Blue <ul style="list-style-type: none"> Without equipotential bonding, 2-pole With equipotential bonding, 1-pole 					<p>8WH2 020-0AF00 1 50 units 044</p> <p>8WH2 025-0AF00 1 50 units 044</p> <p>8WH2 020-0AF01 1 50 units 044</p> <p>8WH2 025-0AF01 1 50 units 044</p>
 <p>8WH2 023-0AF00</p>  <p>1201_12691 8WH2 023-0AF00</p>  <p>1201_14017 8WH2 022-0AF00</p>		<p>Two-tier terminals, terminal size 2.5 mm², three clamping points on one level</p> <ul style="list-style-type: none"> Terminal width 5.2 mm <ul style="list-style-type: none"> <ul style="list-style-type: none"> IEC 60947-7-1 <ul style="list-style-type: none"> Rigid 0.08 ... 4 mm² Flexible 0.08 ... 2.5 mm² AWG 28-12 I = 26 A The total current through all connected conductors must not exceed the max. load current U = 500 V <p>Versions</p> <ul style="list-style-type: none"> Gray <ul style="list-style-type: none"> Without equipotential bonding, 2-pole With equipotential bonding, 1-pole Blue, 2-pole 					<p>8WH2 023-0AF00 1 50 units 044</p> <p>8WH2 022-0AF00 1 50 units 044</p> <p>8WH2 023-0AF01 1 50 units 044</p>
 <p>8WH2 020-4AF00</p>  <p>1201_12689 8WH2 020-4AF00</p>		<p>Two-tier terminals, terminal size 2.5 mm², L at top and PE at bottom</p> <ul style="list-style-type: none"> Gray Terminal width 5.2 mm <ul style="list-style-type: none"> <ul style="list-style-type: none"> DIN VDE 0611 and IEC 60947-7-2 <ul style="list-style-type: none"> Rigid 0.08 ... 4 mm² Flexible 0.08 ... 2.5 mm² AWG 28-12 I = 32 A U = 500 V 					<p>8WH2 020-4AF00 1 50 units 044</p>

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
 <p>8WH2 020-4BF00</p>  <p>I201_12690 8WH2 020-4BF00</p>		Two-tier terminals, terminal size 2.5 mm², N at top and PE at bottom	8WH2 020-4BF00	1	50 units	044
		<ul style="list-style-type: none"> • Gray • Terminal width 5.2 mm • DIN VDE 0611 and IEC 60947-7-2 <ul style="list-style-type: none"> - Rigid 0.08 ... 4 mm² - Flexible 0.08 ... 2.5 mm² - AWG 28-12 - I = 32 A - U = 500 V 				
 <p>8WH2 020-4CF00</p>  <p>I201_12691 8WH2 020-4CF00</p>		Two-tier terminals, terminal size 2.5 mm², N at top and L at bottom	8WH2 020-4CF00	1	50 units	044
		<ul style="list-style-type: none"> • Gray • Terminal width 5.2 mm •    • IEC 60947-7-1 <ul style="list-style-type: none"> - Rigid 0.08 ... 4 mm² - Flexible 0.08 ... 2.5 mm² - AWG 28-12 - I = 26 A - U = 500 V 				
 <p>8WH2 020-0CF07</p>  <p>I201_12692 8WH2 020-0CF07</p>		PE two-tier terminals, terminal size 2.5 mm², two clamping points on one level	8WH2 020-0CF07	1	50 units	044
		<ul style="list-style-type: none"> • Terminal width 5.2 mm •    • IEC 60947-7-2 <ul style="list-style-type: none"> - Rigid 0.08 ... 4 mm² - Flexible 0.08 ... 2.5 mm² - AWG 28-12 • Green/yellow 				
 <p>8WH2 023-0CF07</p>  <p>I201_12693 8WH2 023-0CF07</p>		PE two-tier terminals, terminal size 2.5 mm², three clamping points on one level	8WH2 023-0CF07	1	50 units	044
		<ul style="list-style-type: none"> • Terminal width 5.2 mm •    • IEC 60947-7-2 <ul style="list-style-type: none"> - Rigid 0.08 ... 4 mm² - Flexible 0.08 ... 2.5 mm² - AWG 28-12 • Green/yellow 				

8WH2 Spring-Loaded Terminals

8WH two-tier terminals

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Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
Terminal size 4 mm²						
 <p>8WH2 020-0AG00</p>  <p>1201_12691 8WH2 020-0AG00</p>  <p>1201_14017 8WH2 025-0AG00</p>		Two-tier terminals, terminal size 4 mm² <ul style="list-style-type: none"> Terminal width 6.2 mm  <ul style="list-style-type: none"> IEC 60947-7-1 <ul style="list-style-type: none"> Rigid 0.08 ... 6 mm² Flexible 0.08 ... 4 mm² AWG 28-10 I = 32 A The total current through all connected conductors must not exceed the max. load current U = 500 V Versions <ul style="list-style-type: none"> Gray <ul style="list-style-type: none"> Without equipotential bonding, 2-pole With equipotential bonding, 1-pole Blue, 2-pole 				
 <p>8WH2 020-0CG07</p>  <p>1201_12694 8WH2 020-0CG07</p>		8WH2 020-0CG07		1	50 units	044
PE two-tier terminals, terminal size 4 mm²						
 <p>8WH2 020-0CG07</p>  <p>1201_12694 8WH2 020-0CG07</p>		PE two-tier terminals, terminal size 4 mm² <ul style="list-style-type: none"> Terminal width 6.2 mm  <ul style="list-style-type: none"> IEC 60947-7-2 <ul style="list-style-type: none"> Rigid 0.08 ... 6 mm² Flexible 0.08 ... 4 mm² AWG 28-10 Green/yellow 				
Accessories						
 <p>8WH9 070-0BA00</p>		Compartment partitions, for terminal size 1.5 to 4 mm² <ul style="list-style-type: none"> For visual and electrical separation of terminal groups 2 mm thick 				
 <p>8WH9 000-1VA00</p>		Covers Gray Versions <ul style="list-style-type: none"> For terminal size 1.5 ... 2.5 mm² For terminal size 2.5 mm² and three clamping points For terminal size 4 mm² 				
		8WH9 070-0BA00		100	50 units	044
		8WH9 000-1VA00 8WH9 000-2VA00 8WH9 003-1VA00		100	50 units	044
				100	50 units	044

Note:

For general accessories for 8WH terminal blocks, [see chapter 8](#).

Overview



Our three-tier terminals offer three feed-through levels in a slim 5.2 mm terminal enclosure. They enable high wiring density – ideal for switchboards where space is at a premium.

With one bridge shaft per tier, these terminal blocks are ideal for use as compact potential distributors or initiator terminals. All six clamping points are interconnected on the equipotential bonding versions.

The three-tier terminal range is rounded off with a PE terminal with the same contour.

Inscription

Each tier of three-tier terminals can be inscribed with flat labels. If a label holder is used, the labels can be inserted at the front.

Benefits

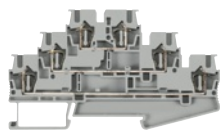
- Three feed-through levels with minimum footprint
- Comprehensive range of inscription options
- Matching accessories for 8WH terminal range
- One bridge shaft per tier
- Label holder is inserted.

Technical specifications

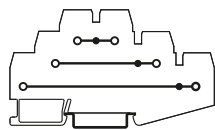
	8WH2 030-0AF00 8WH2 030-0AF01 8WH2 035-0AF00	8WH2 035-0CF07	8WH2 030-4EF00 8WH2 030-4HF00
Dimensions			
• Width/length in mm	5.2 / 99.5	5.2 / 99.5	5.2 / 99.5
• Height (TS 35/7.5 / TS 35/15 / TS 32) in mm	58 / 65.5	58 / 65.5	58 / 65.5
Technical specifications acc. to IEC/DIN VDE			
• Max. load current in A / cross-section in mm ²	28 / 4	--	28 / 4
• Rated impulse withstand voltage in kV / pollution degree	6 / 3	6 / 3	6 / 3
• Overvoltage category / molded plastic group	III / I	III / I	III / I
Connection capacities			
• Flexible with end sleeve without / with plastic sleeve in mm ²	0.25 ... 2.5	0.25 ... 2.5	0.25 ... 2.5
• Flexible with end sleeve, without plastic sleeve in mm ²	0.25 ... 2.5	0.25 ... 2.5	0.25 ... 2.5
• Flexible with TWIN end sleeve with plastic sleeve in mm ²	0.5	0.5	0.5
Stripped length in mm	10	10	10
Plug gauge (IEC 60947-1)	A3	A3	A3
Molded plastic type	PA	PA	PA
• Flammability class acc. to UL 94	V0	V0	V0
Approval data (UL/CUR and CSA)			
• Rated voltage / rated current / conductor sizes			
- UL/CUR: V/A/AWG	600 / 20 / 26-12	-- / -- / 24-12	300 / 20 / 26-12
- CSA: V/A/AWG	--	--	--

Selection and ordering data

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS/ P. unit	PG
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Terminal size 2.5 mm²

8WH2 030-0AF00



8WH2 030-0AF00

Three-tier terminals, terminal size 2.5 mm²

- Enclosed at both ends
- Terminal width 5.2 mm
-
- IEC 60947-7-1
 - Rigid 0.08-4 mm²
 - Flexible 0.08-2.5 mm²
 - AWG 28-12
 - I = 28 A
 - U = 500 V

Versions

- Gray
- Blue



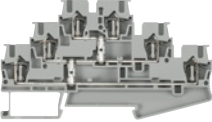
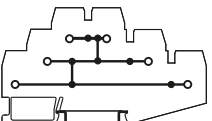
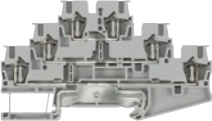
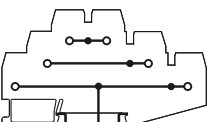
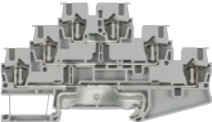
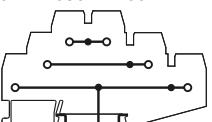
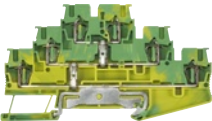
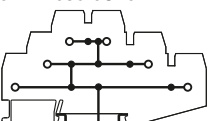


8WH2 030-0AF00
8WH2 030-0AF01

1 50 units 044
1 50 units 044

8WH2 Spring-Loaded Terminals

8WH three-tier terminals

4

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS/ P. unit	PG	
 <p>8WH2 035-0AF00</p>  <p>1201_13975</p> <p>8WH2 035-0AF00</p>		Three-tier terminals, with equipotential bonding, terminal size 2.5 mm² <ul style="list-style-type: none"> Enclosed at both ends Terminal width 5.2 mm C^{UL}us IEC 60947-7-1 <ul style="list-style-type: none"> Rigid 0.08-4 mm² Flexible 0.08-2.5 mm² AWG 28-12 I = 28 A U = 500 V <p>Note</p> <p>The total current through all connected conductors must not exceed the max. load current.</p>			1	50 units	044
 <p>8WH2 030-4EF00</p>  <p>1201_13976</p> <p>8WH2 030-4EF00</p>		Three-tier terminals, "PE/L/N", terminal size 2.5 mm² <ul style="list-style-type: none"> Enclosed at both ends Terminal width 5.2 mm C^{UL}us IEC 60947-7-1 + IEC 60947-7-2 <ul style="list-style-type: none"> Rigid 0.08-4 mm² Flexible 0.08-2.5 mm² AWG 28-12 			1	50 units	044
 <p>8WH2 030-4HF00</p>  <p>1201_13976</p> <p>8WH2 030-4HF00</p>		Three-tier terminals, "PE/L/L", terminal size 2.5 mm² <ul style="list-style-type: none"> Enclosed at both ends Terminal width 5.2 mm C^{UL}us IEC 60947-7-1 + IEC 60947-7-2 <ul style="list-style-type: none"> Rigid 0.08-4 mm² Flexible 0.08-2.5 mm² AWG 28-12 I = 28 A U = 500 V 			1	50 units	044
 <p>8WH2 035-0CF07</p>  <p>1201_13978</p> <p>8WH2 035-0CF07</p>		PE three-tier terminals, terminal size 2.5 mm² <ul style="list-style-type: none"> Enclosed at both ends Terminal width 5.2 mm C^{UL}us IEC 60947-7-2 <ul style="list-style-type: none"> Rigid 0.08-4 mm² Flexible 0.08-2.5 mm² AWG 28-12 			1	50 units	044
Accessories							
 <p>8WH9 000-1GD00</p>		Covers for three-tier terminals			100	50 units	044
 <p>8WH9 060-4BA00</p>		Label holders, for three-tier terminals			100	100 units	044

Note:

For general accessories for 8WH terminal blocks, see chapter 8.

Overview

**Terminal size 2.5 mm²**

The four-tier motor terminals with terminal size 2.5 mm² are ideal for the compact wiring of AC loads. They have three through-levels and one PE connection which is contacted by simply snapping it onto the mounting rail.

No cross-bridging option.

Terminal size 4 mm²

Like the 2.5 mm² version, the four-tier motor terminal with 4 mm² also allows the wiring of three phases and the PE in a single terminal. This terminal is enclosed at both ends.

No cross-bridging option.

Integrated PE/ground conductor function

PE contact with the support rail is made by simply snapping the terminal onto the rail. This makes the four-tier motor terminals with terminal size 4 mm² ideal for the space-saving wiring of AC motors.

Inscription

Each clamping point has a facility for inscription and a test option for 2.3 mm Ø test plugs.

There is also sufficient space to make large marking with labels in the middle of the terminal.

Labels can be mounted flat at the side of the terminals by simply snapping on


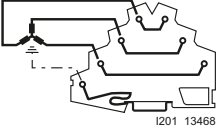



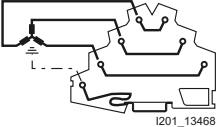



Technical specifications

	8WH2 040-4LF00	8WH2 040-4LG00
Dimensions		
• Width/length/cover width in mm	5.2 / 98.5 / 2.2	6.2 / 101 / --
• Height (NS 35/7.5 / NS 35/15) in mm	73.5 / 81	83.5 / 91
Technical specifications acc. to IEC/DIN VDE		
• Max. load current in A / cross-section in mm ²	26 / 4	32 / 6
• Rated impulse withstand voltage in kV / pollution degree	8 / 3	
• Overvoltage category / molded plastic group	III / I	
Connection capacities		
• Flexible with end sleeve, with plastic sleeve in mm ²	0.25 ... 2.5	0.25 ... 4
• Flexible with end sleeve, without plastic sleeve in mm ²	0.25 ... 2.5	0.25 ... 4
• Flexible with two-wire connection end sleeve, with plastic sleeve in mm ²	--	0.5 ... 1
Stripped length in mm	10	
Plug gauge (IEC 60947-1)	A3	A4
Molded plastic type	PA	
• Flammability class acc. to UL 94	V0	
Approval data (UL/cUL and CSA)		
• Rated voltage / rated current / conductor sizes		
- UL/cUL: in V/A / AWG	-- / -- / 26-12	--
- CSA: in V/A / AWG	--	600 / 30 / 28-10

8WH2 Spring-Loaded Terminals

8WH four-tier motor terminals

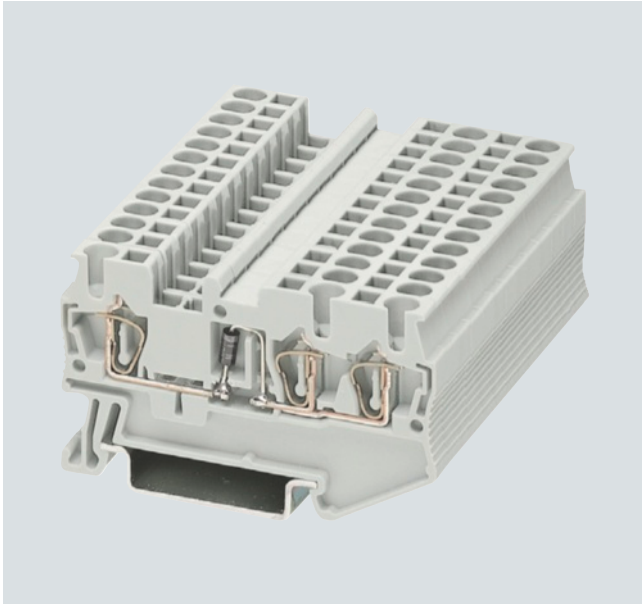
Selection and ordering data

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
Terminal size 2.5 mm²						
 <p>8WH2 040-4LF00</p>  <p>8WH2 040-4LF00 I201_13468</p>		Four-tier motor terminals, terminal size 2.5 mm² <ul style="list-style-type: none"> Terminal width 5.2 mm   IEC 60947-7-1 and IEC 60947-7-2 <ul style="list-style-type: none"> Rigid 0.08 ... 4 mm² Flexible 0.08 ... 2.5 mm² AWG 28-12 I = 26 A U = 800 V 				
Terminal size 4 mm²						
 <p>8WH2 040-4LG00</p>  <p>8WH2 040-4LG00 I201_13468</p>		Four-tier motor terminals, terminal size 4 mm² <ul style="list-style-type: none"> Terminal width 6.2 mm   IEC 60947-7-1 and IEC 60947-7-2 <ul style="list-style-type: none"> Rigid 0.08 ... 6 mm² Flexible 0.08 ... 4 mm² AWG 28-10 I = 32 A U = 800 V Enclosed at both ends 				
Accessories						
 <p>8WH2 040-4LG00</p>		Covers For four-tier motor terminals, terminal size 2.5 mm²				
		8WH9 000-1GE00		100	50 units	044

Note:

For general accessories for 8WH terminal blocks, [see chapter 8](#).

Overview



Diode terminals with a nominal cross-section of 2.5 mm² and a mounting width of just 5.2 mm can be used to implement many different wiring tasks. The diode is soldered in from left to right or vice versa as required.

A label can be snapped on to the middle of each terminal at the front. Further labels can also be mounted flat on the side of the terminals.

4

Technical specifications

	8WH2 003-5DF00 8WH2 003-5CF00
Dimensions	
• Width/length/cover width in mm	5.5 / 60.5 / 2.2
• Height HV-M ... (NS 35/7.5 / NS 35/15) in mm	36.5 / 44
Technical specifications acc. to IEC/DIN VDE	
• Max. load current in A / cross-section in mm ²	Determined by the diode / 4
• Rated impulse withstand voltage in kV / pollution degree	4 / 3
• Overvoltage category / molded plastic group	III / I
Connection capacities	
• Flexible with end sleeve, with plastic sleeve in mm ²	0.25 ... 2.5
• Flexible with end sleeve, without plastic sleeve in mm ²	0.25 ... 2.5
• Flexible with two-wire connection end sleeve, with plastic sleeve in mm ²	0.5
Stripped length in mm	10
Plug gauge (IEC 60947-1)	A3
Molded plastic type	PA
• Flammability class acc. to UL 94	V0
Approval data (UL/cUL and CSA)	
• Rated voltage / rated current / conductor sizes	
- UL/cUL: V/A/AWG	600 / 20 / 26-12
- CSA: V/A/AWG	--

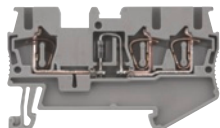
8WH2 Spring-Loaded Terminals

8WH diode terminals

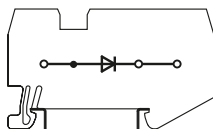
Selection and ordering data

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
---------	----	-----------	--------------	-------------------	-------------	----

Terminal size 2.5 mm²

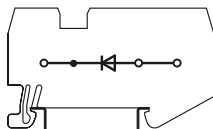


8WH2 003-5DF00



I201_12712

8WH2 003-5DF00



I201_12713

8WH2 003-5CF00

Diode terminals, terminal size 2.5 mm², with three clamping points

- Uninterrupted limiting current: 0.5 A
- Blocking voltage: 1300 V
- Terminal width 5.2 mm
- **CAUTION**
- Connection data
 - Rigid 0.08 ... 4 mm²
 - Flexible 0.08 ... 2.5 mm²
 - AWG 28-12
 - I = the maximum current is determined by the diode
 - $U = 500$ V
- With integrated diode
- Integrated: diode 1N 4007

Versions

- Let-through from left to right
- Let-through from right to left

8WH2 003-5DF00
8WH2 003-5CF00

1 50 units 044
1 50 units 044

Accessories



8WH9 070-0GA00

Compartment partitions, for terminal size 1.5 to 4 mm² and three clamping points

8WH9 070-0GA00

100 50 units 044



8WH9 000-4GA00

Covers, for terminal size 1.5 ... 2.5 mm² and three clamping points

8WH9 000-4GA00

100 50 units 044



8WH9 000-0GA00

Cover segments, for terminal size 1.5 and 2.5 mm² and three clamping points

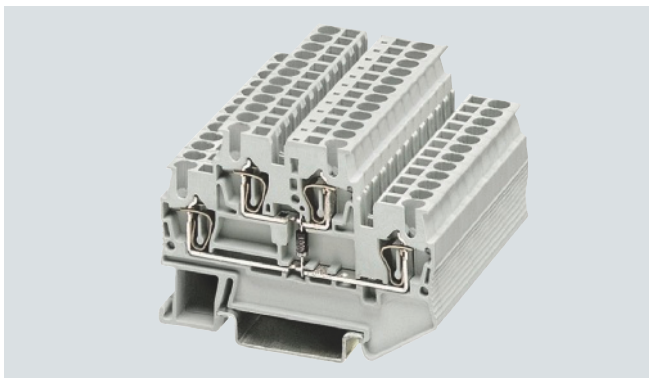
8WH9 000-0GA00

100 10 units 044

Note:

For general accessories for 8WH terminal blocks, [see chapter 8](#).

Overview



Two-tier diode terminals can be used together with different versions to implement many different wiring tasks.

The following circuits are possible in the tightest spaces:

- Freewheel diode circuits
- Lamp test circuits
- Signaling and fault signaling circuits.

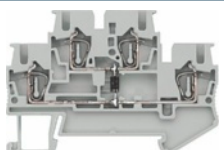
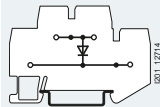
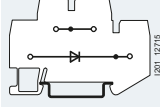
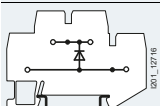
The clamping points of two-tier terminals can be inscribed with flat labels.

4

Technical specifications

	8WH2 020-5AF00, 5DF00, 5BF00	5HF00, 5FF00, 5KF00, 5EF00, 5GF00	5JF30, 5JF80
Dimensions			
• Width/length/cover width in mm	5.2 / 67.5 / 2.2		
• Height (NS 35/7.5 / NS 35/15) in mm	47.5 / 55		
Technical specifications acc. to IEC/DIN VDE			
• Max. load current in A (not via diodes) / cross-section in mm ²	26 / 4		
• Rated impulse withstand voltage in kV / pollution degree	4 / 3		
• Overvoltage category / molded plastic group	III / I		
Connection capacities			
• Flexible with end sleeve, with plastic sleeve in mm ²	0.25 ... 2.5		
• Flexible with end sleeve, without plastic sleeve in mm ²	0.25 ... 2.5		
• Flexible with two-wire connection end sleeve, with plastic sleeve in mm ²	0.5		
Stripped length in mm	10		
Plug gauge (IEC 60947-1)	A3		
Molded plastic type	PA		
• Flammability class acc. to UL 94	V0		
Approval data (UL/cUL and CSA)			
• Rated voltage / rated current / conductor sizes			
- UL/cUL: in V/A / AWG	300 / 20 / 26-12		
- CSA: in V/A / AWG	300 / 20 / 26-12		

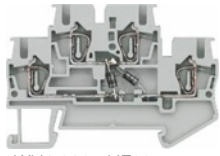
Selection and ordering data

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS* / P. unit	PG
General data						
Terminal size 2.5 mm²						
 8WH2 020-5AF00	Two-tier diode terminals, size 2.5 mm², with one diode <ul style="list-style-type: none"> • Terminal width 5.2 mm • Connection data <ul style="list-style-type: none"> - Rigid 0.08 ... 4 mm², flexible 0.08 ... 2.5 mm², AWG 28-12 - $I = 26 \text{ A}$, $U = 500 \text{ V}$ • Maximum current determined by diode • Integrated: diode 1N 4007 <ul style="list-style-type: none"> - Blocking voltage: 1300 V, uninterrupted limiting current: 0.5 A 					
	Circuit diagram	Versions				
		Let-through from top to bottom	8WH2 020-5AF00		1 50 units	044
		Let-through from bottom left to top right	8WH2 020-5DF00		1 50 units	044
	Let-through from bottom to top	8WH2 020-5BF00		1 50 units	044	

8WH2 Spring-Loaded Terminals

8WH two-tier diode terminals

4



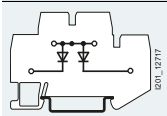
8WH2 020-5HF00

Two-tier diode terminals, terminal size 2.5 mm², with two diodes

- Terminal width 5.2 mm
- Connection data
 - Rigid 0.08 ... 4 mm²
 - Flexible 0.08 ... 2.5 mm²
 - AWG 28-12
 - $I = 26 \text{ A}$, $U = 500 \text{ V}$
- Maximum current determined by diode
- Integrated: diode 1N 4007
 - Blocking voltage: 1300 V
 - Uninterrupted limiting current: 0.5 A

Circuit diagram

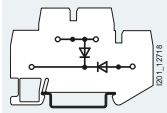
Versions



Let-through from top to bottom left and from top to bottom right

8WH2 020-5HF00

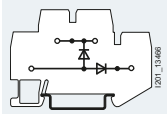
1 50 units 044



Let-through from top to bottom left and from bottom right to bottom left

8WH2 020-5KF00

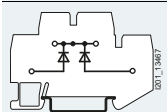
1 50 units 044



Let-through from bottom left to top and from bottom left to bottom right

8WH2 020-5EF00

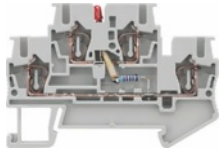
1 50 units 044



Let-through from bottom left to top and from bottom right to top

8WH2 020-5GF00

1 50 units 044



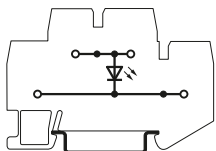
8WH2 020-5JF30

Two-tier diode terminals, terminal size 2.5 mm², with LED

- Terminal width 5.2 mm
- Connection data
 - Rigid 0.08 ... 4 mm²
 - Flexible 0.08 ... 2.5 mm²
 - AWG 28-12
 - $I = 26 \text{ A}$
 - $U = 500 \text{ V}$

Versions

- 15 to 30 V DC/2.5 to 7.5 A
- 110 to 230 V AC/DC / 0.5 to 1.0 A (glow lamp)



8WH2 020-5JF30

8WH2 020-5JF30

1 50 units 044

8WH2 020-5JF80

1 50 units 044

Accessories



8WH9 070-0BA00

Compartment partitions, for terminal size 1.5 to 4 mm²

8WH9 070-0BA00

100 50 units 044



8WH9 000-1VA00

Covers, for terminal size 1.5 and 2.5 mm²

8WH9 000-1VA00

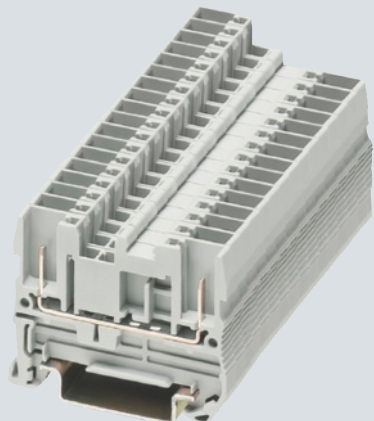
100 50 units 044

Note:

For general accessories for 8WH terminal blocks, see chapter 8.

8WH5 Combination Plug-In Terminals

5



5/2	Introduction
5/5	8WH5 through-type terminals¹⁾
5/7	8WH5 hybrid through-type terminals with iPo connection
5/8	8WH9 plugs¹⁾

¹⁾ Also available as a PE version

5

More technical product information:

Service&Support Portal:

www.siemens.com/lowvoltage/technical-support

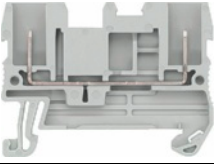
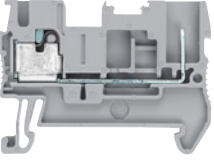
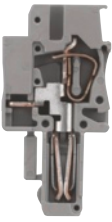
→ Product List:
Technical specifications

→ Entry List:
Updates / Downloads / FAQ /
Manuals / Operating instructions /
Characteristic curves / Certificates

8WH5 Combination Plug-In Terminals

Introduction

Overview

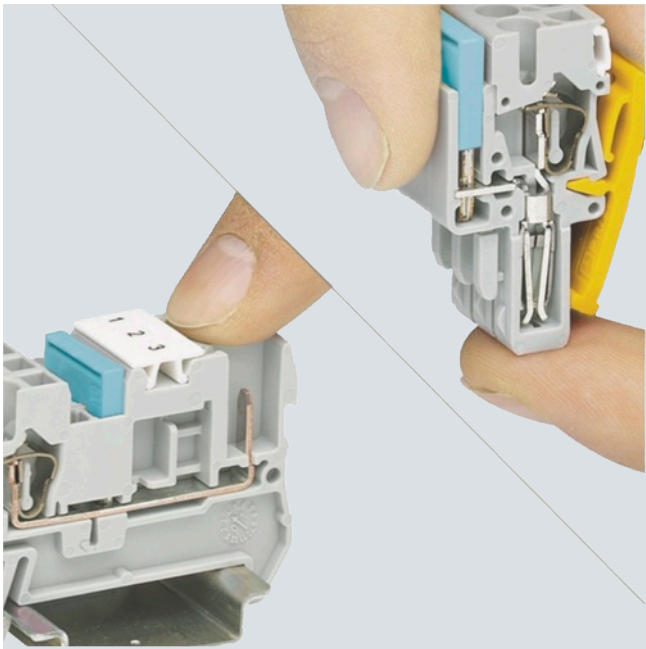
	Devices	Page	Function
	8WH5 through-type terminals	5/5	Terminals for the connection of combination plug-in terminals
	8WH5 hybrid through-type terminals with iPo connection	5/7	Terminals for the connection of combination plug-in terminals
	8WH9 plugs	5/8	For connection of combination plugs for fast wiring

Features

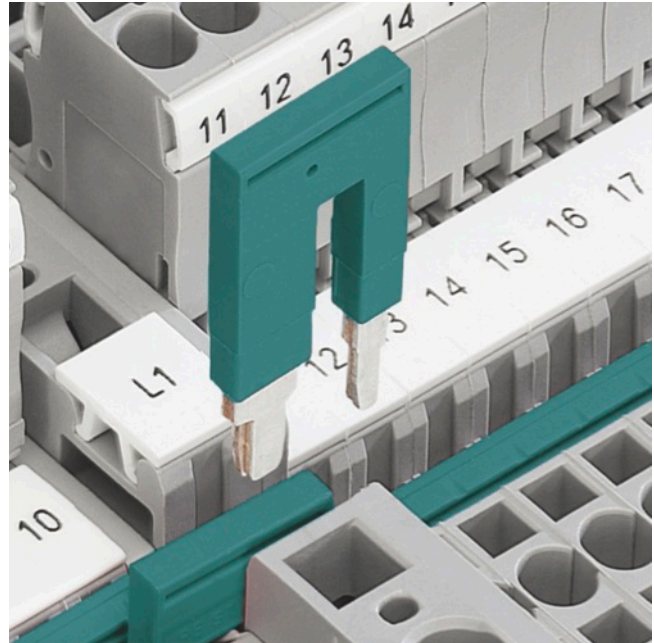
Conductor cross-section	Terminal type ¹⁾	Color	Combination plugs		Order No. (digits 8 ... 12)
			Terminal type → Design → No. of clamping points → Order No. (digits 1 ... 7) →	Standard 2 8WH5 000	
2.5 mm ²	Through-type	Gray	✓	4 8WH5 004	0AF00
		Blue	✓	✓	0AF01
		PE Green/yellow	✓	✓	OCF07

Benefits**High-performance contact**

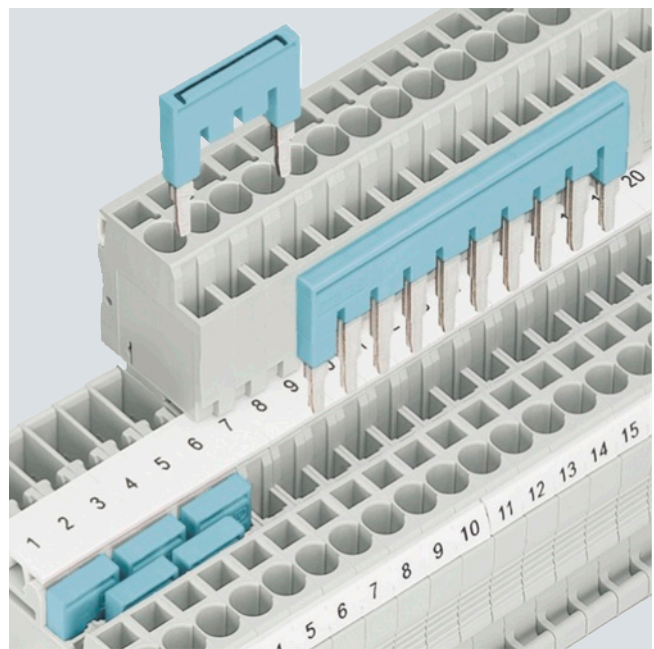
The advanced plug-in system of the combination plug-in terminals enables plug-in wiring up to a rated current of 32 A and a rated voltage of 800 V. The contact system withstands extreme vibration thanks to the integral overspring.

Fingerproof design

With its fingerproof base terminals and plugs, the combination plug-in terminal system provides maximum user protection. As well as enhancing safety, this provides exceptional flexibility during configuration: the power can be supplied either through the terminals or the plugs.

Time and cost-saving potential distribution

When feeding in large cross-sections, the reducing comb enables time and cost-saving distribution of the potential. For example, it can link a 10 mm² through-type terminal to a 2.5 mm² through-type terminal and two clamping points.

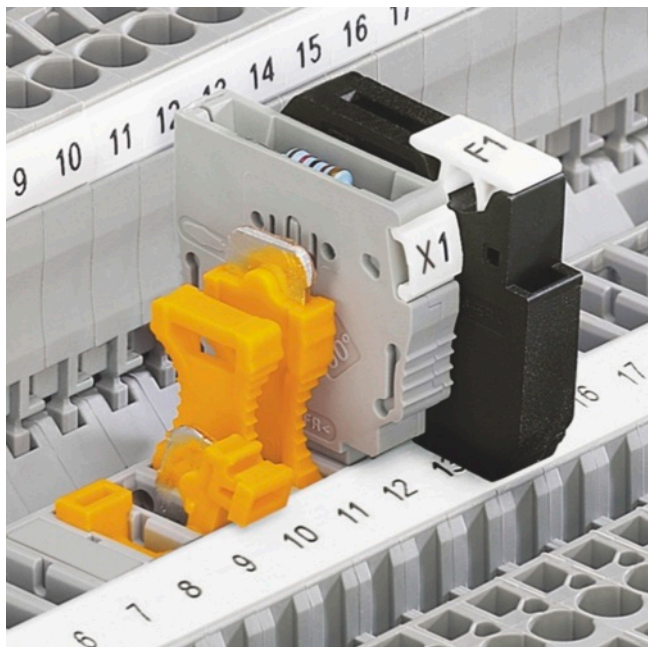
Standardized connecting comb system

The standardized connecting comb system allows up to 50 terminals to be connected efficiently and quickly with a single jumper. Teeth can be removed to skip individual terminals.

8WH5 Combination Plug-In Terminals

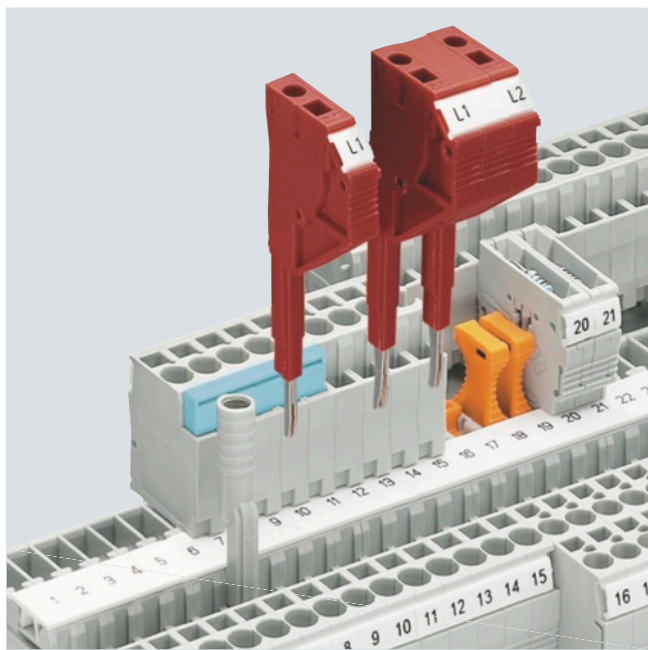
Introduction

Universal plug-in zone



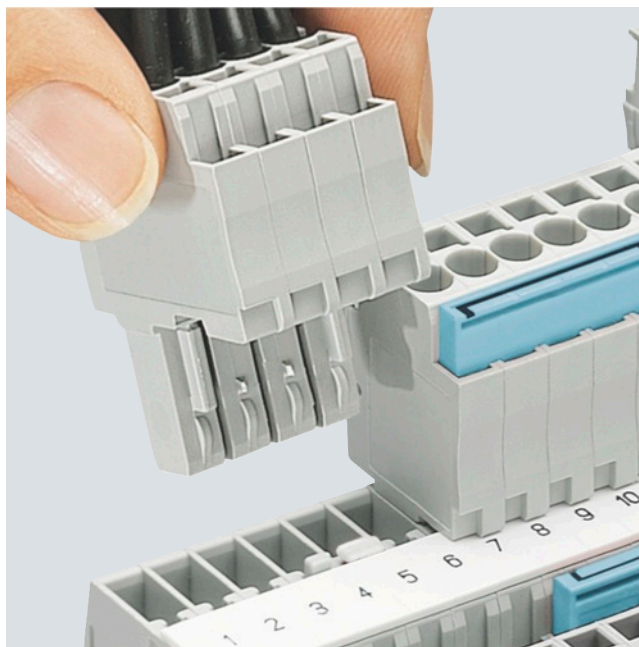
The universal plug-in zone of the isolating terminal can accommodate isolated through-type connectors, isolating plugs, component connectors and fused connectors.

Assembling test adapters



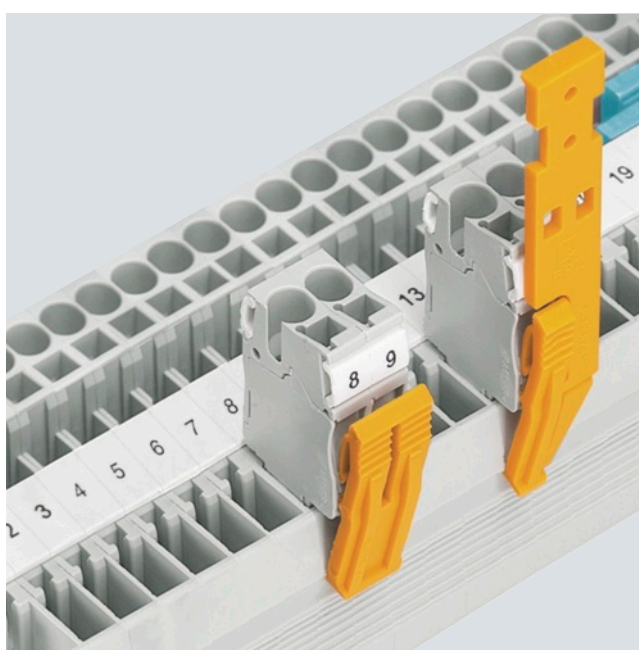
Test adapters are available for $\varnothing 4$ mm test and safety test plugs. Test plugs can be individually assembled, thanks to the modular design of the test plugs. Measuring leads can be connected over a 1.5 mm^2 spring-loaded terminal.

Coding the combination plug-in terminals



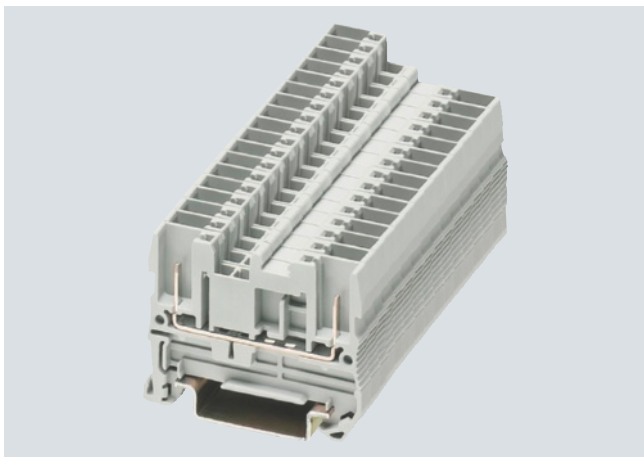
The combination plug-in terminals can be coded with the pin on the plug. The pin is simply removed from the plug, rotated and fitted in the coding position of the base terminal.

Snap-on strain relief



Snap-on clamps are available to relieve cable strain at the plugs. Latches are also available to secure the plugs firmly to the base terminals.

Overview



Plugs can be connected at both ends of the terminal using the through-type terminals of the combination plug-in terminals. This makes the combination plug-in terminal system even more flexible and allows the terminals to be used as connecting elements between modules.

The plugs used have a terminal size of 2.5 mm², thus enabling continued use of familiar accessories, such as latches, strain relief and shield connectors.

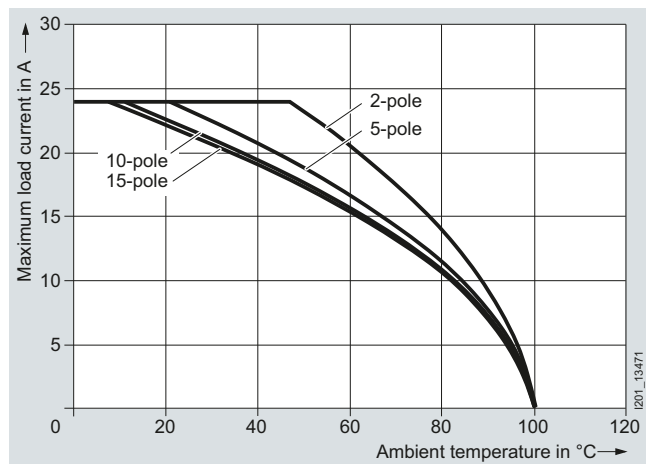
PE terminals with the same contour are available for the base terminals. These are simply snapped onto the support rail to establish a connection to ground potential.

A label can be snapped on to the middle of each terminal at the front. Further labels can also be mounted flat on the side of the terminals.

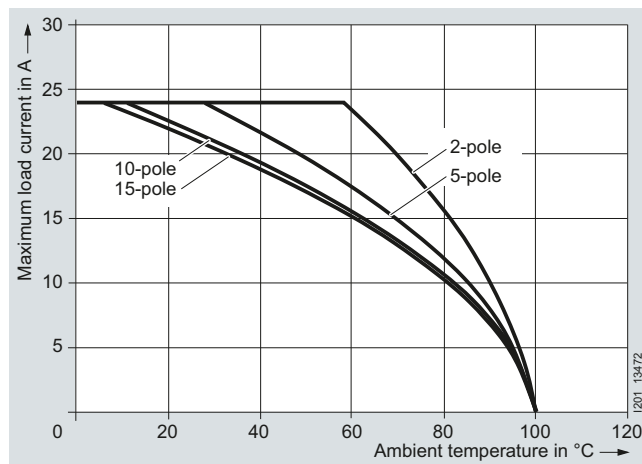
Technical specifications

	8WH5 000-0AF00, 8WH5 000-0AF01	8WH5 004-0AF00, 8WH5 004-0AF01	8WH5 000-0CF07	8WH5 004-0CF07
Dimensions				
• Width/length/cover width in mm	5.2 / 48.5 / 2.2	5.2 / 89.5 / 2.2	5.2 / 48.5 / 2.2	5.2 / 89.5 / 2.2
• Height (TS 35/7.5 / TS 35/15) in mm	36.5 / 44	36.5 / 44	36.5 / 44	36.5 / 44
Technical specifications acc. to IEC/DIN VDE				
• Max. load current in A ¹⁾ / cross-section in mm ²	24 / 4	24 / 4	--	--
• Rated impulse withstand voltage in kV / pollution degree	6 / 3			
• Overvoltage category / molded plastic group	III / I			
Connection capacities				
• Flexible with end sleeve, with plastic sleeve in mm ²	0.25 ... 2.5			
• Flexible with end sleeve, without plastic sleeve in mm ²	0.25 ... 2.5			
• Flexible with two-wire connection end sleeve, with plastic sleeve in mm ²	0.5			
Molded plastic type	PA			
• Flammability class acc. to UL 94	V0			
Approval data (UL/cUL and CSA)				
• Rated voltage / rated current / conductor sizes				
- UL/cUL: in V/A / AWG	300 / 20 / --		-- / -- / -- See section "8WH9 Plugs" on page 5/8	-- / -- / --
- CSA: in V/A / AWG	--			
Support rails/protective conductor busbars	--			See section "Support rails" on page 1/3

¹⁾ Derating of the load current is necessary for higher temperatures and/or multi-pole combination plug versions.



Derating curve for 8WH5 000-0AF00






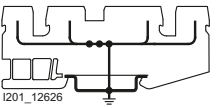






Derating curve for 8WH5 004-0AF00

8WH5 Combination Plug-In Terminals

8WH5 through-type terminals

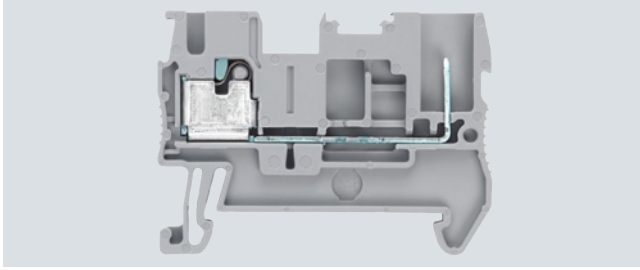
Selection and ordering data

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
Terminal size 2.5 mm²						
 <p>8WH5 000-0AF00</p>  <p>8WH5 004-0AF00</p>		Through-type terminals, terminal size 2.5 mm² <ul style="list-style-type: none"> Terminal width 5.2 mm  <ul style="list-style-type: none"> IEC 61 984 - I = 24 A - U = 500 V Versions <ul style="list-style-type: none"> Gray <ul style="list-style-type: none"> - Two clamping points - Four clamping points Blue <ul style="list-style-type: none"> - Two clamping points - Four clamping points Note <p>On the terminal with four clamping points, the total current through all connected conductors must not exceed the max. load current.</p>				
		8WH5 000-0AF00 8WH5 004-0AF00 8WH5 000-0AF01 8WH5 004-0AF01		1 50 units 044 1 50 units 044 1 50 units 044 1 50 units 044		
 <p>8WH5 000-0CF07</p>  <p>8WH5 004-0CF07</p>  <p>8WH5 004-0CF07</p>		PE through-type terminals, terminal size 2.5 mm² <ul style="list-style-type: none"> Green/yellow Terminal width 5.2 mm  <ul style="list-style-type: none"> IEC 61 984 Versions <ul style="list-style-type: none"> Two clamping points Four clamping points 				
		8WH5 000-0CF07 8WH5 004-0CF07		1 50 units 044 1 50 units 044		
Accessories						
 <p>8WH9 070-0AA00</p>		Compartment partitions, for terminal size 1.5 to 4 mm² <ul style="list-style-type: none"> For visual and electrical separation of terminal groups 2 mm thick Versions <ul style="list-style-type: none"> For two clamping points For four clamping points 				
		8WH9 070-0AA00 8WH9 070-0HA00		100 50 units 044 100 50 units 044		
 <p>8WH9 000-1LA00</p>		Cover segments, for terminal size 2.5 mm² and four terminals <ul style="list-style-type: none"> Gray For covering multi-wire terminals when mounting two-wire terminals side-by-side 				
		8WH9 000-1LA00		100 50 units 044		
 <p>8WH9 000-4NA00</p>		Covers, for terminal size 2.5 mm² Gray Versions <ul style="list-style-type: none"> Two clamping points Four clamping points 				
		8WH9 000-1GA00 8WH9 000-4NA00		100 50 units 044 100 50 units 044		

Note:

For general accessories for 8WH terminal blocks, [see chapter 8](#).

Overview



The 8WH5 hybrid through-type terminals with iPo connection provide a modular solution for fast, flexible wiring of plants and machines. They combine the advantages of the combination terminal system with those of the iPo terminals.

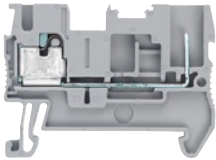
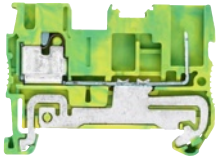


A label can be snapped on to the middle of each terminal at the front. Further labels can also be mounted flat on the side of the terminals.

Technical specifications

	8WH5 100-2PF00	8WH5 100-3PF07
Dimensions		
• Width/length/cover width in mm	5.2 / 48.5 / 2.2	
• Height (TS 35/7.5 / TS 35/15) in mm	36.5	
Technical specifications acc. to IEC/DIN VDE		
• Max. load current in A ¹⁾ / cross-section in mm ²	24	--
• Rated impulse withstand voltage in kV / pollution degree	500	--
Connection capacity, 1 conductor		
• Rigid	0.14 ... 2.5	
• Flexible with end sleeve without / with plastic sleeve in mm ²	0.14 ... 2.5	
Molded plastic type		
• Flammability class acc. to UL 94	V0	
Approval data (UL/cUL and CSA)		
• Rated voltage / rated current / conductor sizes		
- UL/cUL: in V/A / AWG	500 / 300 / 26-12	
- CSA: in V/A / AWG	-- / --	
Support rails/protective conductor busbars	--	See section "Support rails" on page 1/3

¹⁾ Derating of the load current is necessary for higher temperatures and/or multi-pole combination plug versions.

Selection and ordering data

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS* / P. unit	PG
Hybrid through-type terminals with iPo connection, terminal size 2.5 mm²						
 Hybrid through-type terminals, terminal size 2.5 mm² <ul style="list-style-type: none"> • Gray • Terminal width 5.2 mm • Rated current 24 A / cross-section 2.5 mm² • Rated voltage $U_n = 500$ V • Rigid 0.14 ... 4 mm² • Flexible with end sleeve 0.14 ... 2.5 mm² • Stripped length 10 mm 		8WH5 100-2PF00		1	50 units	044
 PE hybrid through-type terminals, terminal size 2.5 mm² <ul style="list-style-type: none"> • Green/yellow • Terminal width 5.2 mm • Rigid 0.14 ... 4 mm² • Flexible with end sleeve 0.14 ... 2.5 mm² • Connection type: plug-in spring-loaded connection • Stripped length 10 mm 		8WH5 100-3PF07		1	50 units	044
Accessories						
 Compartment partitions For terminal size 1.5 ... 4 mm ² and four clamping points		8WH9 070-0HA00		100	50 units	044
 Covers For terminal size 2.5 mm ² and two clamping points		8WH9 000-1GA00		100	50 units	044

Note:

For general accessories for 8WH terminal blocks, see chapter 8.

* You can order this quantity or a multiple thereof.

8WH5 Combination Plug-In Terminals

8WH9 plugs

Overview



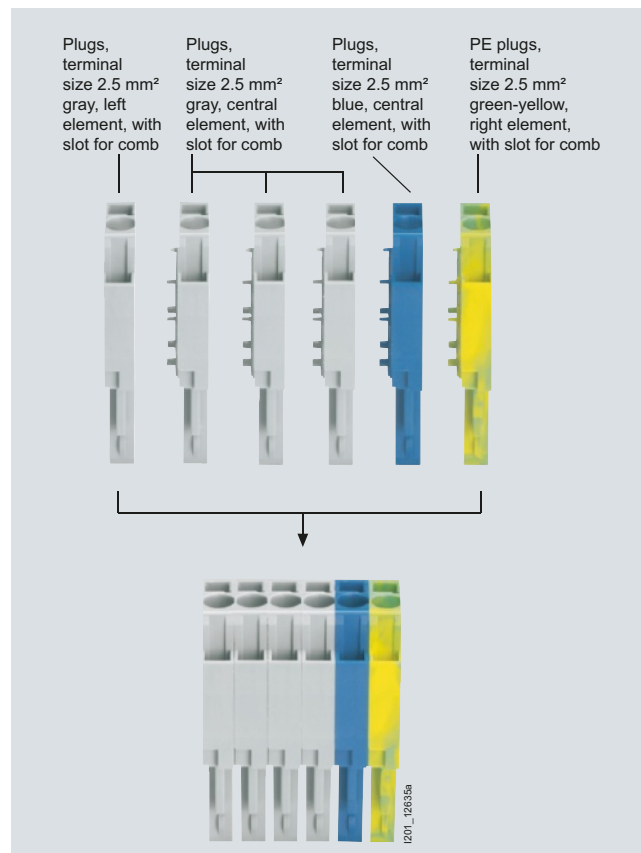
Assembled by the user in-situ from single-pole plug elements, the combination plug-in terminals in kit form provide a customized solution for every task.

For the existing plugs with terminal sizes 2.5 mm² and 4 mm², and the plug with comb connection and terminal size 2.5 mm², single-pole basic versions in the colors gray, blue and green-yellow are available.

A left and a right element are needed for the two ends of the assembled connector for each multi-pole plug. The number of middle elements depends on the plug's required number of poles. The individual elements are simply pushed together and latched with securing pins. The right-hand component has an integrated cover, which covers the plug block.

Labels enable flat inscription of the plugs.

Design




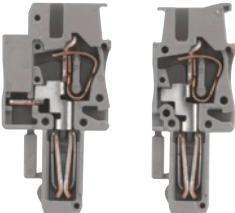
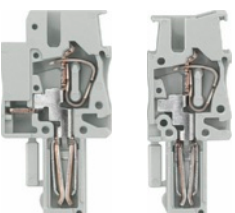
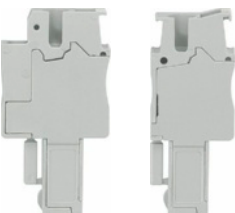

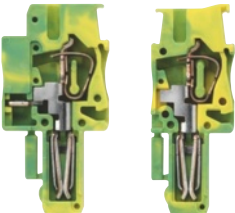

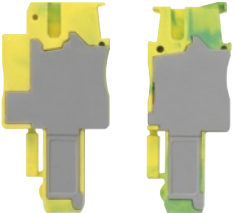
Example of a 6-pole plug

Technical specifications

	8WH9 040-1AB00 8WH9 040-1AB01 8WH9 040-1BB00 8WH9 040-1BB01 8WH9 040-1CB00 8WH9 040-1CB01 8WH9 040-1DB00 8WH9 040-1DB01 8WH9 040-1EB00 8WH9 040-1EB01 8WH9 040-1FB00 8WH9 040-1FB01	8WH9 040-1AB07 8WH9 040-1BB07 8WH9 040-1CB07 8WH9 040-1DB07 8WH9 040-1EB07 8WH9 040-1FB07	8WH9 050-1KB00 8WH9 050-1KB01 8WH9 050-1LB00 8WH9 050-1LB01 8WH9 050-1MB00 8WH9 050-1MB01	8WH9 050-1KB07 8WH9 050-1LB07 8WH9 050-1MB07
Dimensions	--			
• Width/length/cover width in mm	--			
• Height (TS 35/7.5 / TS 35/15) in mm	--			
Technical specifications acc. to IEC/DIN VDE				
• Max. load current in A ¹⁾ / cross-section in A / mm ²	24 / 4		32 / 6	
• Rated impulse withstand voltage in kV / pollution degree	6 / 3		8 / 3	
• Overvoltage category / molded plastic group	III / I			
Connection capacities				
• Flexible with end sleeve, with plastic sleeve in mm ²	0.25 ... 2.5		0.25 ... 4	
• Flexible with end sleeve, without plastic sleeve in mm ²	0.25 ... 2.5		0.25 ... 4	
• Flexible with two-wire connection end sleeve, with plastic sleeve in mm ²	0.5		0.5 ... 1	
Stripped length	10			
Plug gauge (IEC 60947-1)	A3		A4	
Molded plastic type	PA			
• Flammability class acc. to UL 94	V0			
Approval data (UL/cUL and CSA)				
• Rated voltage / rated current / conductor sizes	600 / 20 / 26-12		Applied for	
- UL/cUL: in V/A / AWG	--		Applied for	
- CSA: in V/A / AWG				
Support rails/protective conductor busbars	--		See section "Support rails" on page 1/3	

¹⁾ Derating of the load current is necessary for higher temperatures and/or multi-pole combination plug versions.









Selection and ordering data

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
Terminal size 2.5 mm²						
Plugs, terminal size 2.5 mm²						
<ul style="list-style-type: none"> Terminal width 5.2 mm  Connection data <ul style="list-style-type: none"> Rigid 0.08 ... 4 mm² Flexible 0.08 ... 2.5 mm² AWG 28-12 I = 24 A U = 500 V Number of poles = 1 						
Versions						
 8WH9 040-1DB00 / -1AB00						
 8WH9 040-1EB00 / -1BB00						
 8WH9 040-1FB00 / -1CB00						
<ul style="list-style-type: none"> Gray <ul style="list-style-type: none"> Left element, with slot for comb Central element, with slot for comb Right element, with slot for comb Left element, without slot for comb Central element, without slot for comb Right element, without slot for comb Blue <ul style="list-style-type: none"> Left element, with slot for comb Central element, with slot for comb Right element, with slot for comb Left element, without slot for comb Central element, without slot for comb Right element, without slot for comb 						
		8WH9 040-1DB00 8WH9 040-1EB00 8WH9 040-1FB00 8WH9 040-1AB00 8WH9 040-1BB00 8WH9 040-1CB00		1 50 units 1 50 units 1 50 units 1 50 units 1 50 units 1 50 units	044 044 044 044 044 044	
		8WH9 040-1DB01 8WH9 040-1EB01 8WH9 040-1FB01 8WH9 040-1AB01 8WH9 040-1BB01 8WH9 040-1CB01		1 50 units 1 50 units 1 50 units 1 50 units 1 50 units 1 50 units	044 044 044 044 044 044	
PE plugs, terminal size 2.5 mm²						
<ul style="list-style-type: none"> Green/yellow Terminal width 5.2 mm  Connection data <ul style="list-style-type: none"> Rigid 0.08 ... 4 mm² Flexible 0.08 ... 2.5 mm² AWG 28-12 I = 24 A U = 500 V Number of poles = 1 						
Versions						
 8WH9 040-1DB07 / -1AB07						
 8WH9 040-1EB07 / -1BB07						
 8WH9 040-1FB07 / -1CB07						
		8WH9 040-1DB07 8WH9 040-1EB07 8WH9 040-1FB07 8WH9 040-1AB07 8WH9 040-1BB07 8WH9 040-1CB07		1 50 units 1 50 units 1 50 units 1 50 units 1 50 units 1 50 units	044 044 044 044 044 044	

8WH5 Combination Plug-In Terminals

8WH9 plugs

5

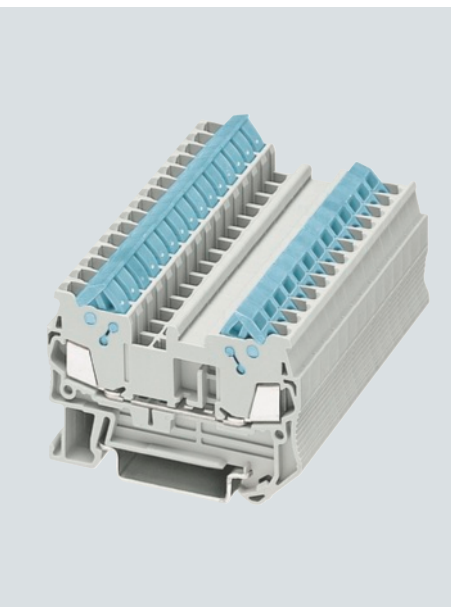
Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG					
Terminal size 4 mm²											
 8WH9 040-1KB00	Plugs, terminal size 4 mm², without slot for comb <ul style="list-style-type: none"> Terminal width 6.2 mm Connection data <ul style="list-style-type: none"> Rigid 0.08 ... 6 mm² Flexible 0.08 ... 24 mm² AWG 28-10 I = 32 A U = 800 V Number of poles = 1 Versions <ul style="list-style-type: none"> Gray <ul style="list-style-type: none"> Left element Central element Right element Blue <ul style="list-style-type: none"> Left element Central element Right element 	8WH9 040-1KB00 8WH9 040-1LB00 8WH9 040-1MB00 8WH9 040-1KB01 8WH9 040-1LB01 8WH9 040-1MB01		1 50 units 044 1 50 units 044 1 50 units 044 1 50 units 044 1 50 units 044 1 50 units 044							
 8WH9 040-1LB00											
 8WH9 040-1MB00											
PE plugs, terminal size 4 mm², without slot for comb											
 8WH9 040-1KB07						<ul style="list-style-type: none"> Green/yellow Terminal width 6.2 mm Connection data <ul style="list-style-type: none"> Rigid 0.08 ... 6 mm² Flexible 0.08 ... 24 mm² AWG 28-10 I = 32 A U = 800 V Number of poles = 1 Versions <ul style="list-style-type: none"> Left element Central element Right element 	8WH9 040-1KB07 8WH9 040-1LB07 8WH9 040-1MB07	1 50 units 044 1 50 units 044 1 50 units 044			
 8WH9 040-1LB07											
 8WH9 040-1MB07											
Accessories											
 8WH9 050-2BA04	Latches Number of poles: 2 Versions <ul style="list-style-type: none"> With strain relief Without strain relief 	8WH9 050-2BA04 8WH9 050-2AA04		100 50 units 044 100 50 units 044							
 8WH9 120-DB08	Shielding <ul style="list-style-type: none"> For connection of shielded cables For cables with 5 to 10 mm diameter Black 	8WH9 120-ODB08	1	50 units 044							

Note:

For general accessories for 8WH terminal blocks, [see chapter 8](#).

8WH3 Insulation Displacement Terminals

6



6/2	Introduction
6/5	8WH through-type terminals
6/9	8WH two-tier terminals
6/11	8WH isolating terminals

More technical product information:

Service&Support Portal:

[www.siemens.com/lowvoltage/
technical-support](http://www.siemens.com/lowvoltage/technical-support)

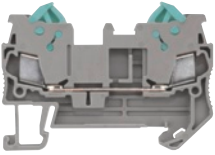
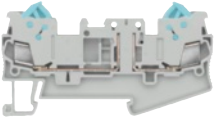
→ Product List:
Technical specifications

→ Entry List:
Updates / Downloads / FAQ /
Manuals / Operating instructions /
Characteristic curves / Certificates

8WH3 Insulation Displacement Terminals

Introduction

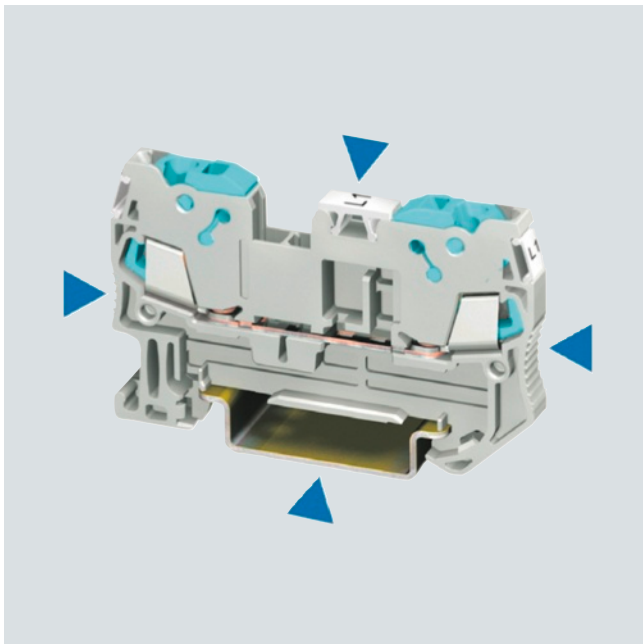
Overview

	Devices	Page	Function
	8WH through-type terminals	6/5	Connection up to 2.5 mm ² of incoming and outgoing conductors
	8WH isolating terminals	6/11	Isolation of the circuit, e.g. for test purposes

1) Only the main terminal types are listed here. You will find further versions on the following pages.

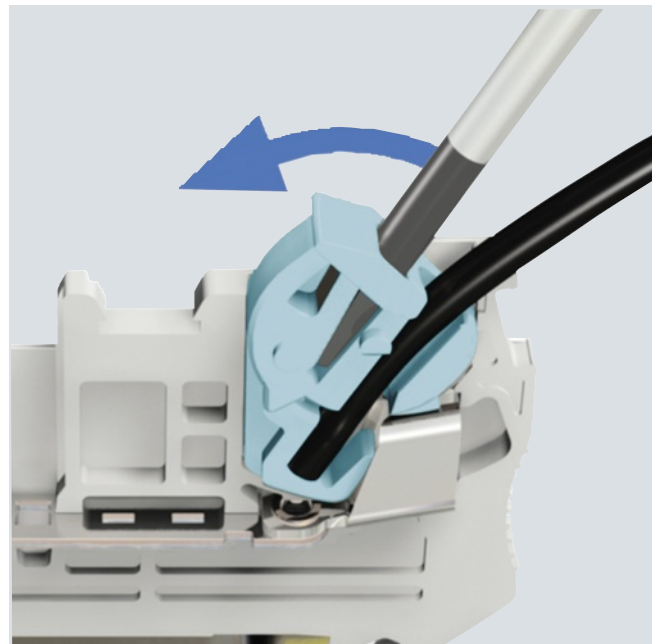
Features

Conductor cross-section	Terminal type ¹⁾	Terminal type → Design → No. of clamping points → Order No. (digits 1 ... 7) → Color	Insulation displacement terminal				Order No. (digits 8 ... 12)
			Standard	3	4	Two-tier 4	
			8WH3 000	8WH3 003	8WH3 004	8WH3 020	
1.5 mm ²	Through-type	Gray	✓	✓	✓	✓	0AE00
		Blue	✓	✓	✓	✓	0AE01
	Isolating	Gray	✓	--	--	--	6AE00
		PE	Green/yellow	✓	✓	✓	0CE07
2.5 mm ²	Through-type	Gray	✓	✓	--	--	0AF00
		Blue	✓	✓	--	--	0AF01
	Isolating	Gray	✓	--	--	--	6AF00
		PE	Green/yellow	✓	--	--	0CF07



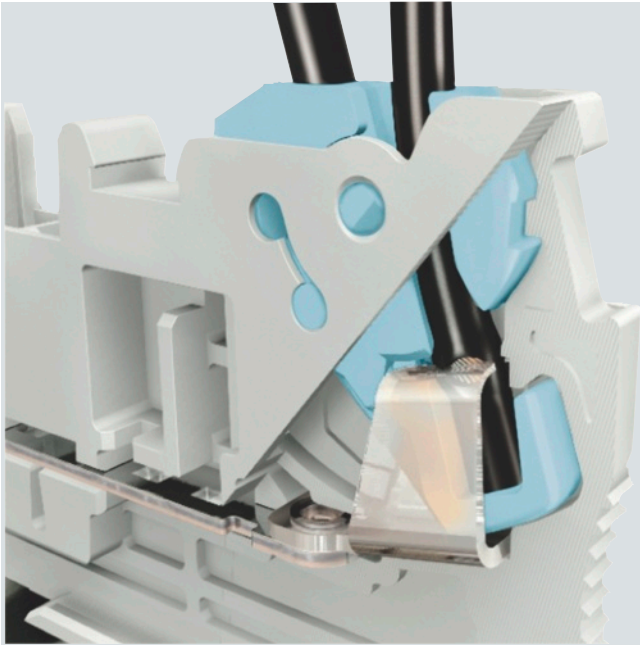
A key feature of the insulation displacement series is its IDC rotary connection. This concept saves considerable space in the control cabinet without impairing other quality features, such as

- Large surface marking
- Maximum connection compartment
- Flexible connecting combs.

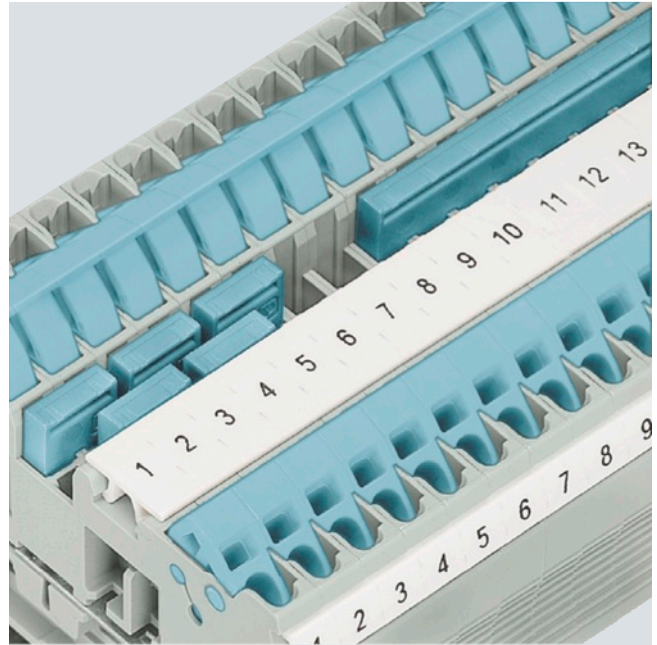


Time savings of 60 % and more compared to other connection systems.

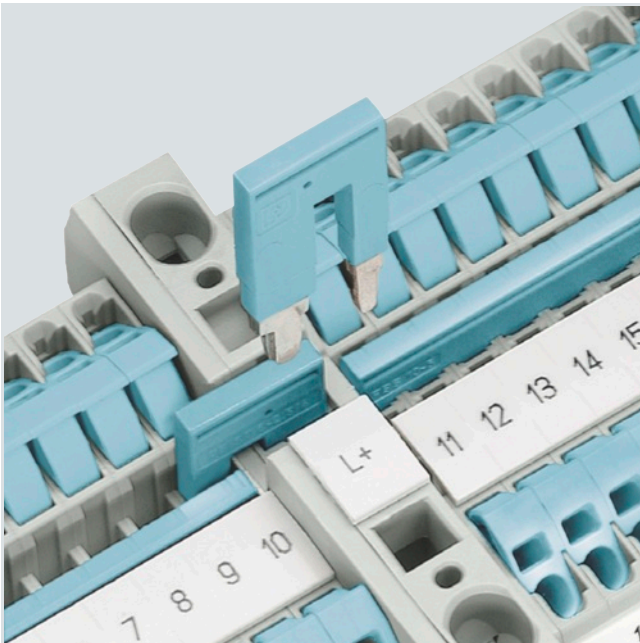
With the quick-connect insulation displacement terminal system, there is no need to strip the insulation or protect the splice. The cables only need to be cut to length for contacting within seconds.



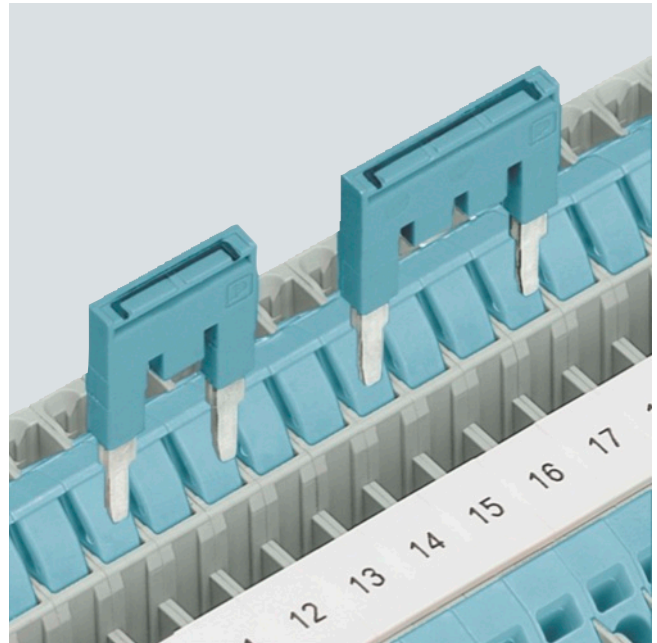
Conductor connections from 0.25 to 2.5 mm² are produced by the cutting contact. High-grade special alloys and latching of the switch states ensure reliable electrical connections at all times. Large, spring-loaded contact points ensure 24 A current load rating.



The standardized connecting comb system allows several terminals to be linked efficiently and quickly with a single jumper. The range covers 2 to 50-pole jumpers, which can help considerably to reduce the amount of wiring outlay.



When feeding in large cross-sections, the reducing comb enables time and cost-saving distribution of the potential. For example, it can link a 10 mm² spring-loaded through-type terminal to a 1.5 mm² insulation displacement through-type terminal and two clamping points - or to a 2.5 mm² insulation displacement through-type terminal and two clamping points.

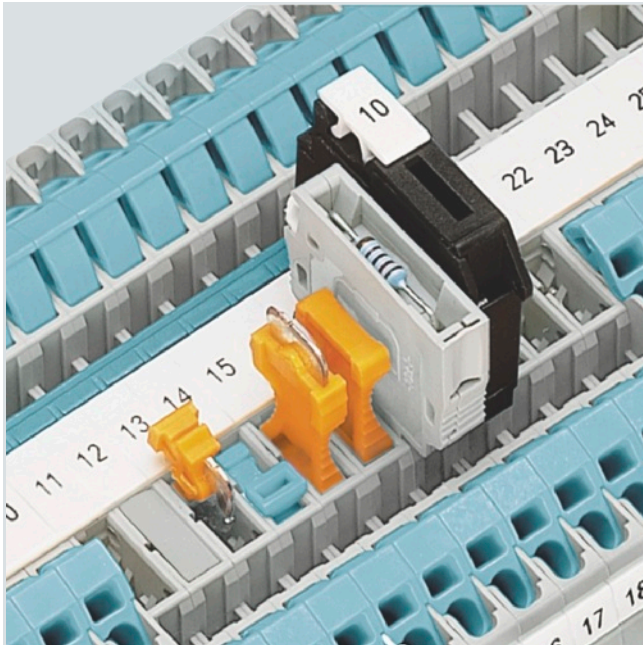


Teeth can be removed from the standard comb in order to skip individual terminals, so that two potentials can run in parallel. A marking option is provided on the top of the connecting comb.

8WH3 Insulation Displacement Terminals

Introduction

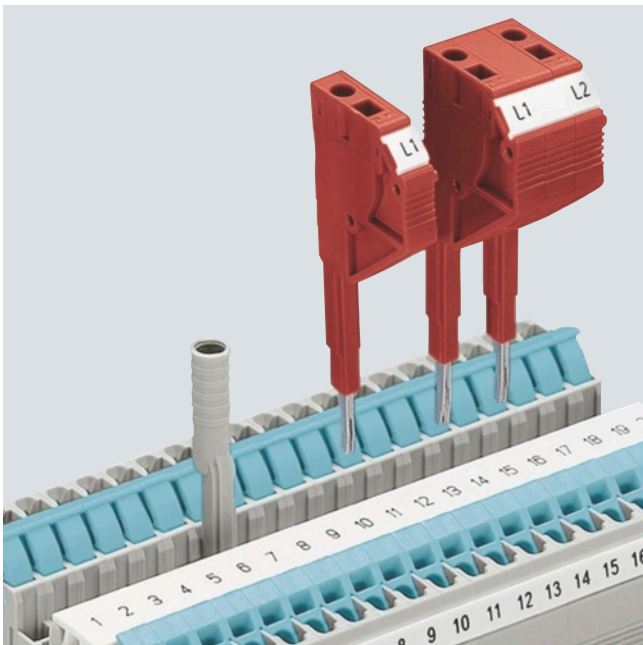
6



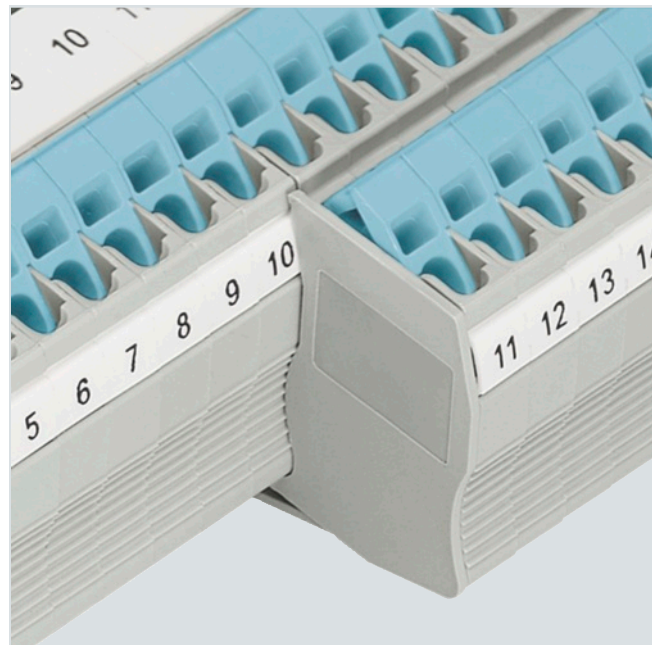
The universal plug-in zone of the isolating terminal can accommodate isolated through-type connectors, isolating plugs, component connectors and fused connectors.



The unambiguous and easy-to-read marking in the center of the terminal is essential for time-saving installation. In addition to the large inscription in the center, each clamping point can also be labeled separately.

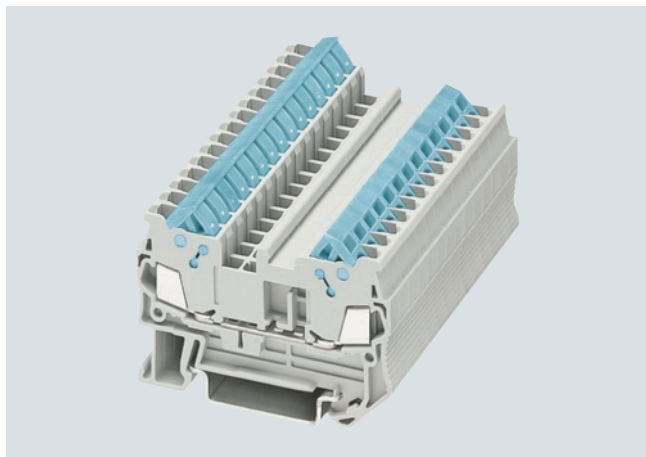


Test adapters are available for $\varnothing 4$ mm test and safety test plugs. Test plugs can be individually assembled, thanks to the modular design of the test plugs. Measuring leads can be connected over a 1.5 mm^2 spring-loaded/insulation displacement terminal.



The cover segment is used to cover multi-wire terminals when mounting two-wire terminals side by side. These devices meet all fingerproof requirements.

Overview



A key feature of the insulation displacement through-type terminal is its compact design. With its clear and space-saving front connection arrangement, this insulation displacement series provides additional space between the cable ducts for wiring. Using the double bridge shaft, it is also possible to use individual chain bridging, as well as a reducing comb, e.g. from a 2.5 mm² tension spring through-type terminal to a 35 mm² tension spring through-type terminal. Used in this way, reducing combs enable the quick and easy assembly of potential incoming feeders and distributors.

A label can be snapped on to the middle of the terminal at the front. Further labels can also be mounted flat on the side of the terminals.

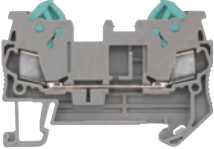


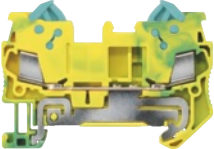
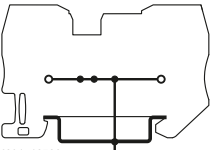

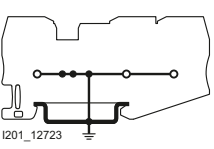

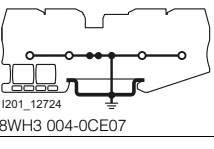
Technical specifications

	8WH3 000-0AE00 8WH3 000-0AE01	8WH3 003-0AE00 8WH3 003-0AE01	8WH3 004-0AE00 8WH3 004-0AE01	8WH3 000-0CE07	8WH3 003-0CE07
Dimensions					
• Width/length/cover width in mm	5.2 / 58.8 / 2.2	5.2 / 76.4 / 2.2	5.2 / 94 / 2.2	5.2 / 58.8 / 2.2	5.2 / 76.4 / 2.2
• Height (TS 35/7.5 / TS 35/15) in mm	39.3 / 46.8				
Technical specifications acc. to IEC/DIN VDE					
• Max. load current in A / cross-section in mm ²	17.5 / 1.5			--	
• Rated impulse withstand voltage in kV / pollution degree	8 / 3				
• Overvoltage category / molded plastic group	III / I				
Conductor cross-section acc. to DIN VDE 0295					
• Core insulation	PVC / PE (other insulation types on request)				
• Solid/finely stranded H05V-U/R/K / H07V-U/R/K in mm ²	0.5 ... 1.0 / 1.5				
• Halogen-free H05Z-U/R/K / H07Z-U/R/K in mm ²	0.5 ... 1.0 / 1.5				
• Finely stranded / very finely stranded					
- (Strand Ø ≥ 0.1 mm) in mm ²	0.25 ... 0.34				
- (Strand Ø ≥ 0.19 mm) AWG	24-16				
Number of circuits					
• At least 100x the same cross-section in mm ²	0.25 ... 1.5				
Molded plastic type	PA				
• Flammability class acc. to UL 94	V0				
Approval data (UL/cUL and CSA)					
• Rated voltage / rated current / conductor sizes					
- UL/cUL: in V/A / AWG	600 / 10 / 24-16			-- / -- / 24-16	
- CSA: in V/A / AWG	--				
Support rails/protective conductor busbars	--				See section "Support rails" on page 1/3
	8WH3 004-0CE07	8WH3 000-0AF00 8WH3 000-0AF01	8WH3 003-0AF00 8WH3 003-AF01	8WH3 000-0CF07	8WH3 003-0CF07
Dimensions					
• Width/length/cover width in mm	5.2 / 94 / 2.2	6.2 / 62.6 / 2.2	6.2 / 82.5 / 2.2	6.2 / 62.6 / 2.2	6.2 / 82.5 / 2.2
• Height (TS 35/7.5 / TS 35/15) in mm	39.3 / 46.8		42.8 / 50.3	39.3 / 46.8	42.8 / 50.3
Technical specifications acc. to IEC/DIN VDE					
• Max. load current in A / cross-section in mm ²	--	24 / 2.5		--	
• Rated impulse withstand voltage in kV / pollution degree	8 / 3				
• Overvoltage category / molded plastic group	III / I				
Conductor cross-section acc. to DIN VDE 0295					
• Core insulation	PVC / PE (other insulation types on request)				
• Solid/finely stranded H05V-U/R/K / H07V-U/R/K in mm ²	0.5 ... 1.0 / 1.5	0.5 ... 1.5 / 1.5 ... 2.5			
• Halogen-free H05Z-U/R/K / H07Z-U/R/K in mm ²	0.5 ... 1.0 / 1.5	0.5 ... 1.5 / 1.5 ... 2.5			
• Finely stranded / very finely stranded					
- (Strand Ø ≥ 0.1 mm) in mm ²	0.25 ... 0.34	--			
- (Strand Ø ≥ 0.19 mm) AWG	24-16	20-14			
Number of circuits					
• At least 100x the same cross-section in mm ²	0.25 ... 1.5	0.5 ... 2.5			
Molded plastic type	PA				
• Flammability class acc. to UL 94	V0				
Approval data (UL/cUL and CSA)					
• Rated voltage / rated current / conductor sizes					
- UL/cUL: in V/A / AWG	-- / -- / 24-16	Applied for			
- CSA: in V/A / AWG	--	Applied for			
Support rails/protective conductor busbars	See section "Support rails" on page 1/3	--			See section Support rails" on page 1/3

8WH3 Insulation Displacement Terminals

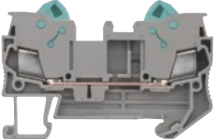

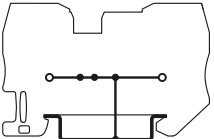

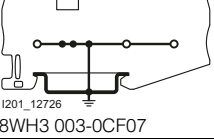
8WH through-type terminals

Selection and ordering data

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
Terminal size 1.5 mm²						
Through-type terminals, terminal size 1.5 mm²						
<ul style="list-style-type: none"> Terminal width 5.2 mm Connection data <ul style="list-style-type: none"> Rigid 0.25 ... 1.5 mm² Flexible 0.25 ... 1.5 mm² AWG 24-16 I = 17.5 A U = 800 V More information, see Technical specifications on page 6/5 						
Versions						
<ul style="list-style-type: none"> Gray <ul style="list-style-type: none"> Two clamping points Three clamping points Four clamping points Blue <ul style="list-style-type: none"> Two clamping points Three clamping points Four clamping points 						
Note						
On terminals with three and four clamping points, the total current through all connected conductors must not exceed the max. load current.						
 <p>8WH3 000-0AE00</p>						
 <p>8WH3 003-0AE00</p>						
 <p>8WH3 004-0AE00</p>						
PE through-type terminals, terminal size 1.5 mm²						
<ul style="list-style-type: none"> Green/yellow Terminal width 5.2 mm Connection data <ul style="list-style-type: none"> Rigid 0.25 ... 1.5 mm² Flexible 0.25 ... 1.5 mm² AWG 24-16 More information, see Technical specifications on page 6/5 						
Versions						
<ul style="list-style-type: none"> Two clamping points Three clamping points Four clamping points 						
 <p>8WH3 000-0CE07</p>						
 <p>1201_12722</p> <p>8WH3 000-0CE07</p>						
 <p>8WH3 003-0CE07</p>						
 <p>1201_12723</p> <p>8WH3 003-0CE07</p>						
 <p>8WH3 004-0CE07</p>						
 <p>1201_12724</p> <p>8WH3 004-0CE07</p>						
		8WH3 000-0AE00 8WH3 003-0AE00 8WH3 004-0AE00		1 50 units 1 50 units 1 50 units	044 044 044	
		8WH3 000-0AE01 8WH3 003-0AE01 8WH3 004-0AE01		1 50 units 1 50 units 1 50 units	044 044 044	
		8WH3 000-0CE07 8WH3 003-0CE07 8WH3 004-0CE07		1 50 units 1 50 units 1 50 units	044 044 044	






6

8WH through-type terminals

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
Terminal size 2.5 mm²						
 <p>8WH3 000-0AF00</p>						
Through-type terminals, terminal size 2.5 mm² <ul style="list-style-type: none"> Terminal width 6.2 mm Connection data <ul style="list-style-type: none"> Rigid 0.5 ... 2.5 mm² Flexible 0.5 ... 2.5 mm² AWG 20-14 I = 24 A U = 800 V 						
Versions <ul style="list-style-type: none"> Gray <ul style="list-style-type: none"> Two clamping points Three clamping points Blue <ul style="list-style-type: none"> Two clamping points Three clamping points 						
Note On terminals with three clamping points, the total current through all connected conductors must not exceed the max. load current.						
		8WH3 000-0AF00 8WH3 003-0AF00		1 50 units	044	044
		8WH3 000-0AF01 8WH3 003-0AF01		1 50 units	044	044
PE through-type terminals, terminal size 2.5 mm²						
 <p>8WH3 000-0CF07</p>						
<ul style="list-style-type: none"> Green/yellow Terminal width 6.2 mm Connection data <ul style="list-style-type: none"> Rigid 0.5 ... 2.5 mm² Flexible 0.5 ... 2.5 mm² AWG 20-14 						
Versions <ul style="list-style-type: none"> Two clamping points Three clamping points 						
		8WH3 000-0CF07 8WH3 003-0CF07		1 50 units	044	044
 <p>1201_12725 8WH3 000-0CF07</p>						
 <p>8WH3 003-0CF07</p>						
 <p>1201_12726 8WH3 003-0CF07</p>						

8WH3 Insulation Displacement Terminals

8WH through-type terminals

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
Accessories						
 8WH9 070-0JA00		Compartment partitions, for terminal size 1.5 to 2.5 mm² <ul style="list-style-type: none"> For visual and electrical separation of terminal groups 2 mm thick Versions <ul style="list-style-type: none"> Two clamping points Three clamping points 				
		8WH9 070-0JA00 8WH9 070-0KA00		100	50 units	044
				100	50 units	044
 8WH9 070-0LA00		Compartment partitions, for terminal size 1.5 mm² and four connection points				
		8WH9 070-0LA00		100	50 units	044
 8WH9 001-1AA00		Covers, for terminal size 1.5 mm² Gray Versions <ul style="list-style-type: none"> Two clamping points Three clamping points Four clamping points 				
		8WH9 001-1AA00 8WH9 001-2AA00 8WH9 001-4AA00		100	50 units	044
				100	50 units	044
				100	50 units	044
 8WH9 000-1AA00		Covers, for terminal size 2.5 mm² Gray Versions <ul style="list-style-type: none"> Two clamping points Three clamping points 				
		8WH9 000-1AA00 8WH9 000-2AA00		100	50 units	044
				100	50 units	044
 8WH9 001-0AA00		Cover segments, for three or four clamping points <ul style="list-style-type: none"> Gray For covering multi-wire terminals when mounting two-wire terminals side-by-side Versions <ul style="list-style-type: none"> For terminal size 1.5 mm² For terminal size 2.5 mm² 				
		8WH9 001-0AA00 8WH9 000-0AA00		100	50 units	044
				100	50 units	044

Note:

For general accessories for 8WH terminal blocks, [see chapter 8](#).

Overview



Key features of the IDC two-tier terminals for terminal size 1.5 mm² are their ultra compact design and the double bridge shaft for each tier. This enables simultaneous bridging and testing.

With its clear and space-saving front connection arrangement, this two-tier terminal series provides additional space between the cable ducts for wiring.

The PE/ground conductor terminal of this range meets all the requirements of IEC 60 947-7-2.

These include:

- Low contact resistance
- Stainless clamping points and PE mounting foot
- Green-yellow enclosure and
- Additional inscription options.

The clamping points of two-tier terminals can be inscribed with flat labels.

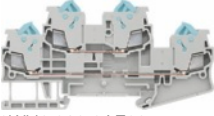



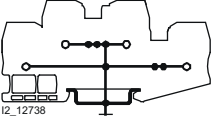


Technical specifications

	8WH3 020-0AE00 8WH3 020-0AE01	8WH3 020-0CE07
Dimensions		
• Width/length/cover width in mm	5.2 / 99.6 / 2.2	
• Height (TS 35/7.5 / TS 35/15) in mm	49.9 / 57.4	
Technical specifications acc. to IEC/DIN VDE		
• Max. load current in A / cross-section in mm ²	17.5 / 1.5	--
• Rated impulse withstand voltage in kV / pollution degree	6 / 3	
• Overvoltage category / molded plastic group	III / I	
Conductor cross-section acc. to DIN VDE 0295		
• Core insulation	PVC / PE (other insulation types on request)	
• Solid/finely stranded H05V-U/R/K / H07V-U/R/K in mm ²	0.4 ... 1.0 / 1.5	
• Halogen-free H05Z-U/R/K / H07Z-U/R/K in mm ²	0.5 ... 1.0 / 1.5	
• Finely stranded / very finely stranded		
- (Strand Ø ≥ 0.1 mm) in mm ²	0.25 ... 0.34	
- (Strand Ø ≥ 0.19 mm) AWG	24-16	
Number of circuits		
• At least 100x the same cross-section in mm ²	0.25 ... 1.5	
Molded plastic type	PA	
• Flammability class acc. to UL 94	V0	
Approval data (UL/cUL and CSA)		
• Rated voltage / rated current / conductor sizes		
- UL/cUL: in V/A / AWG	600 / 10 / 24-16	-- / -- / 24-16
- CSA: in V/A / AWG	--	
Support rails/protective conductor busbars	--	See section "Support rails" on page 1/3

8WH3 Insulation Displacement Terminals

8WH two-tier terminals

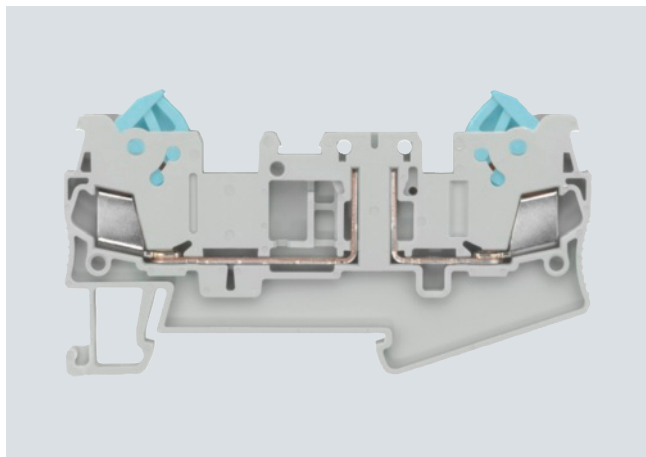
Selection and ordering data

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS* / P. unit	PG
Terminal size 1.5 mm²						
 <p>8WH3 020-0AE00</p>	Two-tier terminals, terminal size 1.5 mm² <ul style="list-style-type: none"> Terminal width 5.2 mm  Connection data <ul style="list-style-type: none"> Rigid 0.25 ... 1.5 mm² Flexible 0.25 ... 1.5 AWG 24-16 I = 17.5 A U = 500 V More information, see Technical specifications on page 6/5 					
	Versions <ul style="list-style-type: none"> Gray Blue 					
 <p>8WH3 020-0CE07</p>	PE two-tier terminals, terminal size 1.5 mm² <ul style="list-style-type: none"> Green/yellow Terminal width 5.2 mm  Connection data <ul style="list-style-type: none"> Rigid 0.25 ... 1.5 mm² Flexible 0.25 ... 1.5 AWG 24-16 More information, see Technical specifications on page 6/5 					
	 <p>8WH3 020-0CE07</p>					
Accessories						
 <p>8WH9 070-0MA00</p>	Compartment partitions, for terminal size 1.5 mm²		8WH9 070-0MA00		100	50 units 044
 <p>8WH9 001-1BA00</p>	Covers, for terminal size 1.5 mm²		8WH9 001-1BA00		100	50 units 044

Note:

For general accessories for 8WH terminal blocks, see [chapter 8](#).

Overview



8WH3 isolating terminals using insulation displacement technology are available for special wiring tasks. Numerous wiring tasks can be performed on a terminal width of 5.2 mm by integrating the isolated through-type connector, the isolating plug, the component connector or the fused plug.

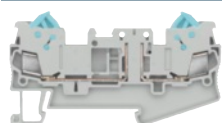
A label can be snapped on to the middle of each terminal at the front. Further labels can also be mounted flat on the side of the terminals.

Technical specifications

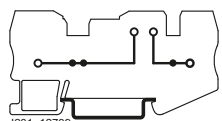
	8WH3 000-6AE00	8WH3 000-6AF00
Dimensions		
• Width/length/cover width in mm	5.2 / 76.4 / 2.2	6.2 / 82.5 / 2.2
• Height (TS 35/7.5 / TS 35/15) in mm	39.3 / 46.8	42.8 / 50.3
Technical specifications acc. to IEC/DIN VDE		
• Max. load current in A / cross-section in mm ²	16 / 1.5	16 / 2.5
• Rated impulse withstand voltage in kV / pollution degree	6 / 3	
• Overvoltage category / molded plastic group	III / I	
Conductor cross-section acc. to DIN VDE 0295		
• Core insulation	PVC / PE (other insulation types on request)	
• Solid/finely stranded H05V-U/R/K / H07V-U/R/K in mm ²	0.5 ... 1.0 / 1.5	0.5 ... 1.0 / 1.5 ... 2.5
• Halogen-free H05Z-U/R/K / H07Z-U/R/K in mm ²	0.5 ... 1.0 / 1.5	0.5 ... 1.0 / 1.5 ... 2.5
• Finely stranded / very finely stranded		
- (Strand Ø ≥ 0.1 mm) in mm ²	0.25 ... 0.34	--
- (Strand Ø ≥ 0.19 mm) AWG	24-16	20-14
Number of circuits		
• At least 100x the same cross-section in mm ²	0.25 ... 1.5	0.5 ... 2.5
Molded plastic type	PA	
• Flammability class acc. to UL 94	V0	
Approval data (UL/cUL and CSA)		
• Rated voltage / rated current / conductor sizes		
- UL/cUL: in V/A / AWG	600 / 10 / 24-16	Applied for
- CSA: in V/A / AWG	600 / 10 / 24-16	Applied for


Selection and ordering data

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG

Terminal size 1.5 mm²

8WH3 000-6AE00

1201_12739
8WH3 000-6AE00Isolating terminals, terminal size 1.5 mm²

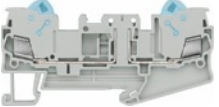



- Gray
- Terminal width 5.2 mm
-  us
- Connection data
 - Rigid 0.25 ... 1.5 mm²
 - Flexible 0.25 ... 1.5 mm²
 - AWG 24-16
 - I = 16 A
 - U = 400 V
 - Current and voltage are determined by the fitted plug
- More information, see [Technical specifications on page 6/5](#)

8WH3 000-6AE00

1 50 units 044

8WH3 Insulation Displacement Terminals

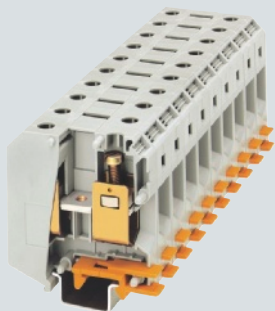
8WH isolating terminals

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
Terminal size 2.5 mm²						
 <p>8WH3 000-6AF00</p>		8WH3 000-6AF00		1	50 units	044
Isolating terminals, terminal size 2.5 mm² <ul style="list-style-type: none"> • Gray • Terminal width 6.2 mm • Connection data <ul style="list-style-type: none"> - Rigid 0.5 ... 2.5 mm² - Flexible 0.5 ... 2.5 mm² - AWG 20-14 - I = 16 A - U = 400 V - Current and voltage are determined by the fitted plug • More information, see Technical specifications on page 6/5 						
Accessories						
 <p>8WH9 070-0KA00</p>		8WH9 070-0KA00		100	50 units	044
Compartment partitions, for terminal size 1.5 to 2.5 mm² and three clamping points						
 <p>8WH9 001-2AA00</p>		8WH9 001-2AA00 8WH9 000-2AA00		100	50 units	044
Covers Versions <ul style="list-style-type: none"> • For terminal size 1.5 mm² and three clamping points • For terminal size 2.5 mm² and three clamping points 						
 <p>8WH9 001-0AA00</p>		8WH9 001-0AA00 8WH9 000-0AA00		100	50 units	044
Cover segments Versions <ul style="list-style-type: none"> • For terminal size 1.5 mm² and three or four clamping points • For terminal size 2.5 mm² and three or four clamping points 						

Note:

For general accessories for 8WH terminal blocks, see [chapter 8](#).

8WH1 Screw Terminals



7/2	Introduction
7/3	General data on 8WH
7/4	8WH through-type terminals¹⁾
7/8	8WH fuse terminals
7/10	8WH isolating blade terminals
7/11	8WH isolating terminals
7/12	8WH two-tier terminals¹⁾
7/15	8WH two-tier terminals with isolating function/isolating blade
7/17	8WH diode terminals
7/18	8WH two-tier diode terminals
7/20	8WH high-current terminals¹⁾
7/24	8WH shield terminals

¹⁾ Also available as a PE version

More technical product information:

Service&Support Portal:

www.siemens.com/lowvoltage/technical-support

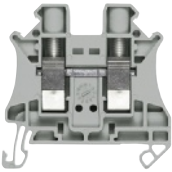

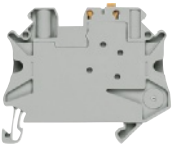
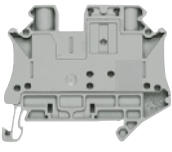
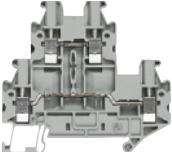
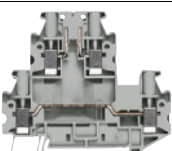
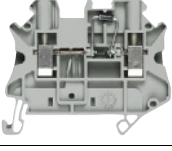
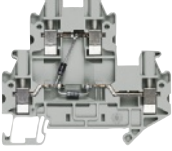


→ Product List:
Technical specifications

→ Entry List:
Updates / Downloads / FAQ /
Manuals / Operating instructions /
Characteristic curves / Certificates

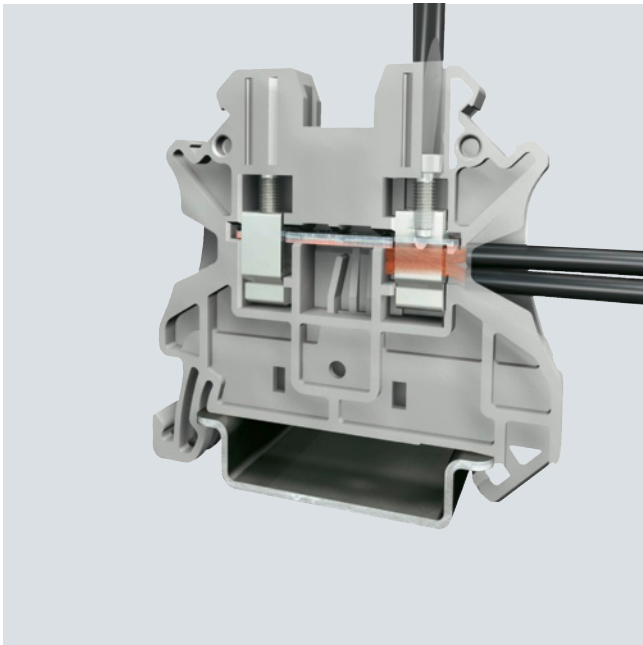
8WH1 Screw Terminals

Introduction

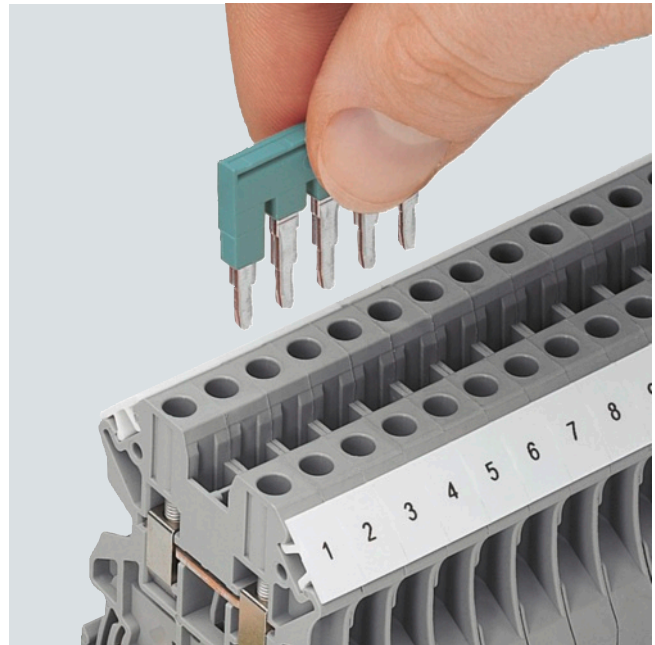
Overview

	Devices	Page	Function
	Through-type terminals	7/4	Connection of incoming and outgoing conductors up to 35 mm ²
	Fuse terminals	7/8	Terminals which can be used to protect control circuits, for example
	Isolating blade terminals	7/10	Isolation of the circuit, e.g. for test purposes
	Isolating terminals	7/11	Isolation of the circuit, e.g. for test purposes
	Two-tier terminals	7/12	Compact form of the terminal block in which two connection wires can be installed
	Two-tier terminals with isolating function	7/15	Compact form of the terminal block in which two connection wires can be installed
	Diode terminals	7/17	Terminal blocks with integrated diodes
	Two-tier diode terminals	7/18	Terminal blocks with integrated diodes
	8WH high-current terminals	7/20	Connection of incoming and outgoing cables from 50 to 240 mm ²
	8WH shield terminals	7/24	Terminals for connection of shielded cables

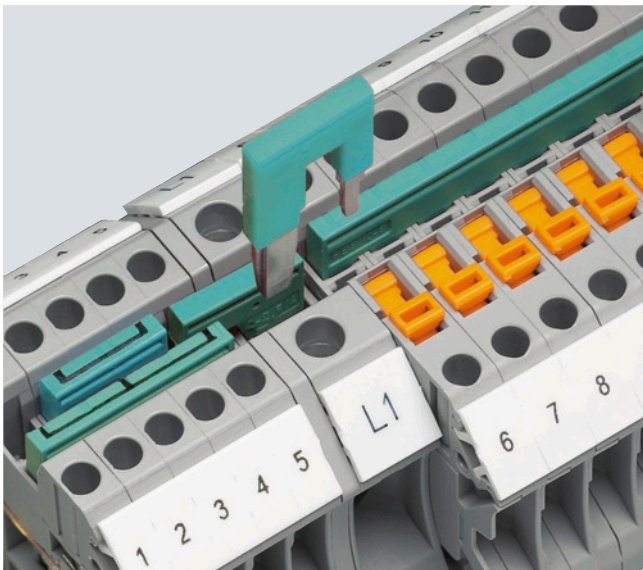
Overview



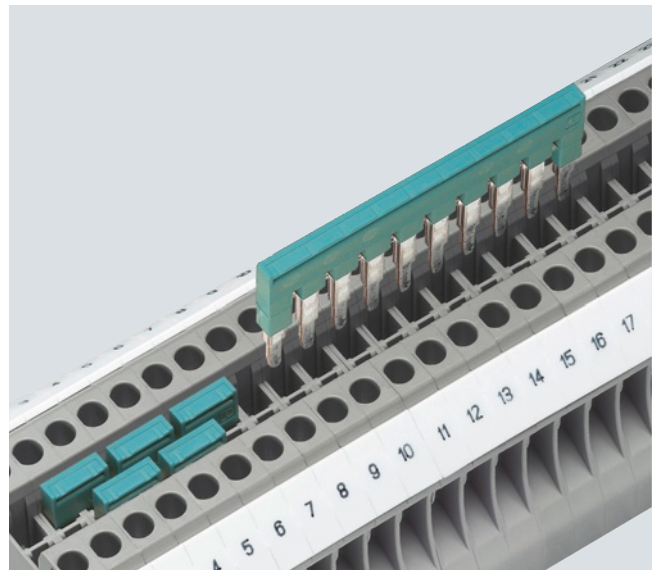
The screw terminal is characterized by its global standard, multi-conductor connection and maintenance-free design.



The potential distribution can be quickly implemented with the standardized connecting combs. Flexible chain bridging, level bridging, or skipping of several terminals are possible through two or more bridge shafts in all the terminals.



Reducing combs enable easy connection of terminals with various nominal cross-sections and terminal designs. Reducing combs can be used for the quick assembly of infeed blocks.

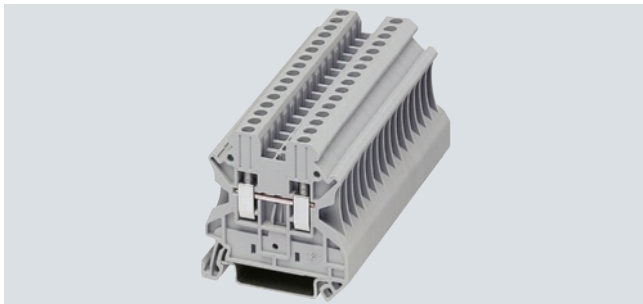


The double bridge shaft enables an assembly of any number of terminals with two-pole jumpers. The 2-pole to 50-pole jumpers enable up to 50 terminals to be connected in a single step.

8WH1 Screw Terminals

8WH through-type terminals

Overview





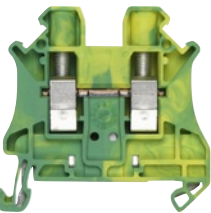



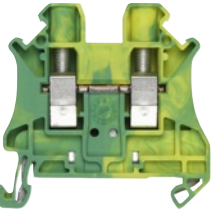



8WH through-type terminals are characterized by their compact design and optimum handling. They are available in conductor cross-section areas from 2.5 to 35 mm² and can be inscribed with labels. The double bridge shaft enables individual chain bridging by means of standard connecting combs. Corresponding accessories are available for testing and labeling. Secure electrical and mechanical contact with the support rail is established by simply snapping the terminals onto the rail.

The individual clamping points can be inscribed at the front using the labels.

Technical specifications







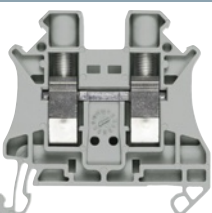

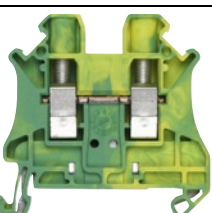

	8WH1 000-0AF00 8WH1 000-0AF01	8WH1 000-0AG00 8WH1 000-0AG01	8WH1 000-0AH00 8WH1 000-0AH01	8WH1 000-0AJ00 8WH1 000-0AJ01	8WH1 000-0AK00 8WH1 000-0AK01	8WH1 000-0AM00 8WH1 000-0AM01
Dimensions						
• Width/length/cover width in mm	5.2 / 47.7 / 2.2	6.2 / 47.7 / 2.2	8.2 / 47.7 / 2.2	10.2 / 47.7 / 2.2	12 / 55.3 / 2.2	16 / 60.2 / --
• Height (NS 35/7.5 / NS 35/15) in mm	47.5 / 55				55 / 62.5	65.7 / 73.2
Technical specifications acc. to IEC/DIN VDE						
• Max. load current in A / cross-section in mm ²	32 / 4	41 / 6	57 / 10	76 / 16	101 / 25	150 / 50
• Rated impulse withstand voltage in kV / pollution degree	8 kV / 3					
• Rated insulation voltage (working voltage) U_i in V acc. to IEC 60497-7-1	1000					
• Overvoltage category / molded plastic group	III / I					
Connection capacities						
• Flexible with end sleeve, with plastic sleeve in mm ²	0.25 ... 2.5	0.25 ... 4	0.25 ... 6	0.5 ... 10	1.0 ... 16	1.5 ... 35
• Flexible with end sleeve, without plastic sleeve in mm ²	0.25 ... 2.5	0.25 ... 4	0.25 ... 6	0.5 ... 10	1.0 ... 16	1.5 ... 35
• Flexible with two-wire connection end sleeve, with plastic sleeve in mm ²	0.5 ... 1.5	0.5 ... 2.5	0.5 ... 4	0.5 ... 6	0.75 ... 10	1.5 ... 10
• Rigid in mm ²	0.14 ... 4	0.14 ... 6	0.2 ... 10	0.5 ... 16	1.5 ... 25	1.5 ... 50
Stripped length in mm	9		10		14	18
Tightening torque in Nm	0.6 ... 0.8		1.5 ... 1.8		2.5 ... 3.0	3.2 ... 3.7
Molded plastic type	PA					
• Flammability class acc. to UL 94	V0					
Approval data (UL/cUL and CSA)						
• Rated voltage / rated current / conductor sizes						
- UL/cUL: in V/A / AWG	600 / 20 / 26-12	600 / 30 / 26-10	600 / 50 / 24-8	600 / 65 / 20-6	600 / 85 / 16-4	600 / 150 / 14-1/0
- CSA: in V/A / AWG	600 / 20 / 26-12	600 / 30 / 26-10	600 / 50 / 24-8	600 / 65 / 20-6	600 / 85 / 16-4	600 / 150 / 14-1/0
	8WH1 000-0CF07	8WH1 000-0CG07	8WH1 000-0CH07	8WH1 000-0CJ07	8WH1 000-0CK07	8WH1 000-0CM07
Dimensions						
• Width/length/cover width in mm	5.2 / 47.7 / 2.2	6.2 / 47.7 / 2.2	8.2 / 47.7 / 2.2	10.2 / 47.7 / 2.2	12 / 55.3 / 2.2	16 / 60.2 / --
• Height (NS 35/7.5 / NS 35/15) in mm	47.5 / 55				55 / 62.5	65.7 / 73.2
Technical specifications acc. to IEC/DIN VDE						
• Max. load current in A / cross-section in mm ²	-- / 4	-- / 6	-- / 10	-- / 16	101 / 25	125 / 35
• Rated impulse withstand voltage in kV / pollution degree	8 kV / 3					
• Overvoltage category / molded plastic group	III / I					
Connection capacities						
• Flexible with end sleeve, with plastic sleeve in mm ²	0.25 ... 2.5	0.25 ... 2.4	0.25 ... 6	0.5 ... 10	1.0 ... 16	1.5 ... 35
• Flexible with end sleeve, without plastic sleeve in mm ²	0.25 ... 2.5	0.25 ... 2.4	0.25 ... 6	0.5 ... 10	1.0 ... 16	1.5 ... 35
• Flexible with two-wire connection end sleeve, with plastic sleeve in mm ²	0.5 ... 1.5	0.5 ... 2.5	0.5 ... 4	0.5 ... 6	0.75 ... 10	1.5 ... 10
• Rigid in mm ²	0.14 ... 4	0.14 ... 6	0.2 ... 10	0.5 ... 16	1.5 ... 25	1.5 ... 35
Stripped length in mm	9		10		14	18
Tightening torque in Nm	0.6 ... 0.8		1.6 ... 1.8	1.5 ... 1.8	2.5 ... 3.0	3.2 ... 3.7
Molded plastic type	PA					
• Flammability class acc. to UL 94	V0					
Approval data (UL/cUL and CSA)						
• Rated voltage / rated current / conductor sizes						
- UL/cUL: in V/A / AWG	-- / -- / 26-12	-- / -- / 26-10	-- / -- / 24-8	-- / -- / 20-6	-- / -- / 16-4	-- / -- / 14-1/0
- CSA: in V/A / AWG	-- / -- / 26-12	-- / -- / 26-10	-- / -- / 24-8	-- / -- / 20-6	-- / -- / 16-4	-- / -- / 14-1/0

Selection and ordering data



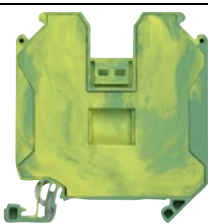




Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
Terminal size 2.5 mm²						
 8WH1 000-0AF00	Through-type terminals, terminal size 2.5 mm² <ul style="list-style-type: none"> •  Us • Terminal width 5.2 mm • $I_{max} = 32$ A • $U_{max} = 1000$ V • AWG 26-12 • Connection capacity, one conductor <ul style="list-style-type: none"> - Rigid 0.14 ... 4 mm² - Flexible 0.14 ... 4 mm² • Connection capacity, two conductors <ul style="list-style-type: none"> - Rigid 0.14 ... 1.5 mm² - Flexible 0.14 ... 1.5 mm² 					
	Versions <ul style="list-style-type: none"> • Gray • Blue 					
 8WH1 000-0CF07	PE through-type terminals, terminal size 2.5 mm² <ul style="list-style-type: none"> •  Us • Terminal width 5.2 mm • AWG 26-12 • Connection capacity, one conductor <ul style="list-style-type: none"> - Rigid 0.14 ... 4 mm² - Flexible 0.14 ... 4 mm² • Connection capacity, two conductors <ul style="list-style-type: none"> - Rigid 0.14 ... 1.5 mm² - Flexible 0.14 ... 1.5 mm² • Green/yellow 		8WH1 000-0CF07		1 50 units	044
	Versions <ul style="list-style-type: none"> • Gray • Blue 					
Terminal size 4 mm²						
 8WH1 000-0AG00	Through-type terminals, terminal size 4 mm² <ul style="list-style-type: none"> •  Us • Terminal width 6.2 mm • $I_{max} = 41$ A • $U_{max} = 1000$ V • AWG 26-10 • Connection capacity, one conductor <ul style="list-style-type: none"> - Rigid 0.14 ... 6 mm² - Flexible 0.14 ... 6 mm² • Connection capacity, two conductors <ul style="list-style-type: none"> - Rigid 0.14 ... 1.5 mm² - Flexible 0.14 ... 1.5 mm² 					
	Versions <ul style="list-style-type: none"> • Gray • Blue 					
 8WH1 000-0CG07	PE through-type terminals, terminal size 4 mm² <ul style="list-style-type: none"> •  Us • Terminal width 6.2 mm • AWG 26-10 • Connection capacity, one conductor <ul style="list-style-type: none"> - Rigid 0.14 ... 6 mm² - Flexible 0.14 ... 6 mm² • Connection capacity, two conductors <ul style="list-style-type: none"> - Rigid 0.14 ... 1.5 mm² - Flexible 0.14 ... 1.5 mm² • Green/yellow 		8WH1 000-0CG07		1 50 units	044
	Versions <ul style="list-style-type: none"> • Gray • Blue 					
Terminal size 6 mm²						
 8WH1 000-0AH00	Through-type terminals, terminal size 6 mm² <ul style="list-style-type: none"> •  Us • Terminal width 8.2 mm • $I_{max} = 57$ A • $U_{max} = 1000$ V • AWG 24-8 • Connection capacity, one conductor <ul style="list-style-type: none"> - Rigid 0.2 ... 10 mm² - Flexible 0.2 ... 10 mm² • Connection capacity, two conductors <ul style="list-style-type: none"> - Rigid 0.2 ... 2.5 mm² - Flexible 0.2 ... 2.5 mm² 					
	Versions <ul style="list-style-type: none"> • Gray • Blue 					

8WH1 Screw Terminals

8WH through-type terminals

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG											
 <p>8WH1 000-0CH07</p> <p>PE through-type terminals, terminal size 6 mm²</p> <ul style="list-style-type: none"> •  US • Terminal width 8.2 mm • AWG 24-8 • Connection capacity, one conductor <ul style="list-style-type: none"> - Rigid 0.2 ... 10 mm² - Flexible 0.2 ... 10 mm² • Connection capacity, two conductors <ul style="list-style-type: none"> - Rigid 0.2 ... 2.5 mm² - Flexible 0.2 ... 2.5 mm² • Green/yellow <table border="1"> <thead> <tr> <th>Accessories</th> <th>Section</th> <th>Page</th> </tr> </thead> <tbody> <tr> <td>• Covers, for through-type terminals, for terminal size 2.5 ... 10 mm²</td> <td>Accessories</td> <td>7/7</td> </tr> <tr> <td>• Compartment partitions, for through-type terminals, for terminal size 2.5 ... 10 mm²</td> <td>dto.</td> <td>7/7</td> </tr> <tr> <td>• Warning covers, for terminal size 6 mm²</td> <td>dto.</td> <td>7/7</td> </tr> </tbody> </table>	Accessories	Section	Page	• Covers, for through-type terminals, for terminal size 2.5 ... 10 mm ²	Accessories	7/7	• Compartment partitions, for through-type terminals, for terminal size 2.5 ... 10 mm ²	dto.	7/7	• Warning covers, for terminal size 6 mm ²	dto.	7/7		8WH1 000-0CH07		1 50 units	044
	Accessories	Section	Page														
	• Covers, for through-type terminals, for terminal size 2.5 ... 10 mm ²	Accessories	7/7														
	• Compartment partitions, for through-type terminals, for terminal size 2.5 ... 10 mm ²	dto.	7/7														
• Warning covers, for terminal size 6 mm ²	dto.	7/7															
		8WH9 000-1PA00		100 50 units	044												
		8WH9 070-6BA00		100 50 units	044												
		8WH9 064-5BA06		100 50 units	044												
Terminal size 10 mm²																	
 <p>8WH1 000-0AJ00</p> <p>Through-type terminals, terminal size 10 mm²</p> <ul style="list-style-type: none"> •  US • Terminal width 10.2 mm • $I_{max} = 76$ A • $U_{max} = 1000$ V • AWG 20-6 • Connection capacity, one conductor <ul style="list-style-type: none"> - Rigid 0.5 ... 16 mm² - Flexible 0.5 ... 16 mm² • Connection capacity, two conductors <ul style="list-style-type: none"> - Rigid 0.5 ... 4 mm² - Flexible 0.5 ... 4 mm² <table border="1"> <thead> <tr> <th>Versions</th> </tr> </thead> <tbody> <tr> <td>• Gray</td> </tr> <tr> <td>• Blue</td> </tr> </tbody> </table>	Versions	• Gray	• Blue														
	Versions																
• Gray																	
• Blue																	
		8WH1 000-0AJ00		1 50 units	044												
		8WH1 000-0AJ01		1 50 units	044												
 <p>8WH1 000-0CJ07</p> <p>PE through-type terminals, terminal size 10 mm²</p> <ul style="list-style-type: none"> •  US • Terminal width 10.2 mm • AWG 20-6 • Connection capacity, one conductor <ul style="list-style-type: none"> - Rigid 0.5 ... 16 mm² - Flexible 0.5 ... 16 mm² • Connection capacity, two conductors <ul style="list-style-type: none"> - Rigid 0.5 ... 4 mm² - Flexible 0.5 ... 4 mm² • Green/yellow 		8WH1 000-0CJ07		1 50 units	044												
Terminal size 16 mm²																	
 <p>8WH1 000-0AK00</p> <p>Through-type terminals, terminal size 16 mm²</p> <ul style="list-style-type: none"> •  US • Terminal width 12.2 mm • $I_{max} = 101$ A • $U_{max} = 1000$ V • AWG 16-4 • Connection capacity, one conductor <ul style="list-style-type: none"> - Rigid 1.5 ... 25 mm² - Flexible 1.5 ... 25 mm² • Connection capacity, two conductors <ul style="list-style-type: none"> - Rigid 1 ... 6 mm² - Flexible 1 ... 6 mm² <table border="1"> <thead> <tr> <th>Versions</th> </tr> </thead> <tbody> <tr> <td>• Gray</td> </tr> <tr> <td>• Blue</td> </tr> </tbody> </table>	Versions	• Gray	• Blue														
	Versions																
• Gray																	
• Blue																	
		8WH1 000-0AK00		1 50 units	044												
		8WH1 000-0AK01		1 50 units	044												
 <p>8WH1 000-0CK07</p> <p>PE through-type terminals, terminal size 16 mm²</p> <ul style="list-style-type: none"> •  US • Terminal width 12.2 mm • AWG 16-4 • Connection capacity, one conductor <ul style="list-style-type: none"> - Rigid 1.5 ... 25 mm² - Flexible 1.5 ... 25 mm² • Connection capacity, two conductors <ul style="list-style-type: none"> - Rigid 1 ... 6 mm² - Flexible 1 ... 6 mm² • Green/yellow 		8WH1 000-0CK07		1 50 units	044												

8WH through-type terminals

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG						
Terminal size 35 mm²												
 8WH1 000-0AM00	Through-type terminals, terminal size 35 mm² <ul style="list-style-type: none"> •  US • Terminal width 16 mm • $I_{max} = 150$ A • $U_{max} = 1000$ V • AWG 16-1/0 • Connection capacity, one conductor <ul style="list-style-type: none"> - Rigid 1.5 ... 50 mm² - Flexible 1.5 ... 50 mm² • Connection capacity, two conductors <ul style="list-style-type: none"> - Rigid 1.5 ... 16 mm² - Flexible 1.5 ... 10 mm² • Enclosed at both ends 											
	Versions <ul style="list-style-type: none"> • Gray • Blue 						8WH1 000-0AM00 8WH1 000-0AM01	1 50 units 1 50 units	044 044			
 8WH1 000-0CM07	PE through-type terminals, terminal size 35 mm² <ul style="list-style-type: none"> •  US • Terminal width 16 mm • AWG 16-2 • Connection capacity, one conductor <ul style="list-style-type: none"> - Rigid 1.5 ... 35 mm² - Flexible 1.5 ... 35 mm² • Connection capacity, two conductors <ul style="list-style-type: none"> - Rigid 1.5 ... 16 mm² - Flexible 1.5 ... 10 mm² • Enclosed at both ends • Green/yellow 											
	Versions <ul style="list-style-type: none"> • Green/yellow 						8WH1 000-0CM07	1 50 units	044			
Accessories												
 8WH9 000-1PA00	Covers, for through-type terminals <ul style="list-style-type: none"> • 2.2 mm wide • Gray 											
	Versions <ul style="list-style-type: none"> • For terminal size 2.5 ... 10 mm² • For terminal size 16 mm² 						8WH9 000-1PA00 8WH9 076-1PA00	100 50 units 100 50 units	044 044			
 8WH9 002-8AC10	Reducing combs, for connecting terminals, for 8WH1											
	Versions <ul style="list-style-type: none"> • From terminal size 6 mm² to 2.5 or 4 mm² <ul style="list-style-type: none"> - From screw to screw - From screw to spring • From terminal size 10 mm² to 2.5 or 4 mm² <ul style="list-style-type: none"> - From screw to screw - From screw to spring • From terminal size 16 mm² to 2.5 or 4 mm² <ul style="list-style-type: none"> - From screw to screw - From screw to spring • From terminal size 35 mm² to 2.5 or 4 mm² <ul style="list-style-type: none"> - From screw to screw - From screw to spring 						8WH9 002-8AC10 8WH9 002-8BC10 8WH9 002-8CC10 8WH9 002-8DC10 8WH9 002-8EC10 8WH9 002-8FC10 8WH9 002-8GC10 8WH9 002-8HC10	1 10 units 1 10 units 1 10 units 1 10 units 1 10 units 1 10 units 1 10 units 1 10 units	044 044 044 044 044 044 044			
Compartment partitions, for through-type terminals, for terminal size 2.5 ... 10 mm², for 8WH1 <ul style="list-style-type: none"> • For visual and electrical separation of terminal groups • 2 mm thick 												
 8WH9 066-5BA06	Warning covers, for 8WH1 <ul style="list-style-type: none"> • Lightning symbol • Yellow 											
	Versions <ul style="list-style-type: none"> • For terminal size 2.5 mm², width 5.2 mm • For terminal size 4 mm², width 6.2 mm • For terminal size 6 mm², width 8.2 mm • For terminal size 10 mm², width 10.2 mm • For terminal size 16 mm², width 12.2 mm • For terminal size 35 mm², width 16 mm 						8WH9 060-5BA06 8WH9 063-5BA06 8WH9 064-5BA06 8WH9 065-5BA06 8WH9 066-5BA06 8WH9 067-5BA06	100 50 units 100 50 units 100 50 units 100 50 units 100 50 units 100 50 units	044 044 044 044 044 044			

8WH1 Screw Terminals

8WH fuse terminals

Overview



The 8WH fuse terminals adopt the function of the fuse holders for 5×20 mm and 6.3×32 mm G fuse links and all potential distribution tasks with the double bridge shaft.

The individual clamping points can be inscribed at the front using labels.








7

Technical specifications

	8WH1 000-1GG08	8WH1 000-1KG38	8WH1 000-1MG88	8WH1 000-1HH08	8WH1 000-1PH38
Dimensions					
• Width/length/cover width in mm	6.2 / 57.8 / --			8.2 / 57.8 / --	
• Height (NS 35/7.5 / NS 35/15) in mm	73 / 80.5				
Technical specifications acc. to IEC/DIN VDE					
• Max. load current in A ¹⁾ / cross-section in mm ²	6.3 / 6			10 / 10	
• Rated impulse withstand voltage in kV / pollution degree	6 kV / 3		4 kV / 3	8 kV / 3	
• Rated insulation voltage (working voltage) U_i in V acc. to IEC 60497-7-1	500			630	
• Overvoltage category / molded plastic group	III / I				
Connection capacities					
• Flexible with end sleeve, with plastic sleeve in mm ²	0.25 ... 4			0.25 ... 6	
• Flexible with end sleeve, without plastic sleeve in mm ²	0.25 ... 4			0.25 ... 6	
• Flexible with two-wire connection end sleeve, with plastic sleeve in mm ²	0.5 ... 2.5			0.5 ... 4	
• Rigid in mm ²	0.14 ... 6			0.2 ... 10	
Stripped length in mm	9			10	
Tightening torque in Nm	0.6 ... 0.8			1.5 ... 1.8	
Molded plastic type	PA				
• Flammability class acc. to UL 94	V0				
Approval data (UL/cUL and CSA)					
• Rated voltage / rated current / conductor sizes					
- UL/cUL: in V/A / AWG	600 / 6.3 / 26-10			600 / 16 / 24-8	
- CSA: in V/A / AWG	600 / 6.3 / 26-10			-- / -- / --	

¹⁾ Please observe the maximum power loss.

Selection and ordering data

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
Terminal size 4 mm²						
 <p>8WH1 000-1GG08</p>	Fuse terminals, terminal size 4 mm², for 5 x 20 mm G fuse links <ul style="list-style-type: none"> •   US • Terminal width 6.2 mm • $I_{max} = 6.3$ A • $U_{max} = 500$ V • AWG 26-10 • Connection capacity, one conductor <ul style="list-style-type: none"> - Rigid 0.14 ... 6 mm² - Flexible 0.14 ... 6 mm² • Connection capacity, two conductors <ul style="list-style-type: none"> - Rigid 0.14 ... 1.5 mm² - Flexible 0.14 ... 1.5 mm² • Enclosed at both ends • Black 					
	Versions <ul style="list-style-type: none"> • Without LED • With LED 10 ... 30 V AC/DC • With LED 110 ... 250 V AC/DC 					
Terminal size 6 mm²						
 <p>8WH1 000-1HH08</p>	Fuse terminals, terminal size 6 mm², for G fuse links 6.3 x 32 mm (inch fuses) <ul style="list-style-type: none"> •   US • Terminal width 8.2 mm • $I_{max} = 10$ A • $U_{max} = 630$ V • AWG 24-8 • Connection capacity, one conductor <ul style="list-style-type: none"> - Rigid 0.2 ... 10 mm² - Flexible 0.2 ... 10 mm² • Connection capacity, two conductors <ul style="list-style-type: none"> - Rigid 0.2 ... 2.5 mm² - Flexible 0.2 ... 2.5 mm² • Enclosed at both ends • Black 					
	Versions <ul style="list-style-type: none"> • Without LED • With LED 12 ... 30 V AC/DC 					
Accessories						
 <p>8WH9 002-8AC10</p>	Reducing combs, for connecting terminals, from terminal size 6 mm² to 2.5 or 4 mm², from screw to screw		8WH9 002-8AC10		1 10 units	044

Note:

For general accessories for 8WH terminal blocks, see chapter 8.

8WH1 Screw Terminals

8WH isolating blade terminals

Overview



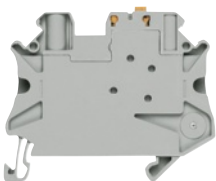
Key features of the 8WH isolating blade terminals are their slim design and high current carrying capacity of 20 A. They can be bridged with standard terminal jumpers over the double bridge shaft.

The individual clamping points can be inscribed at the front using labels.

Technical specifications

8WH1 000-6CG00	
Dimensions	
• Width/length/cover width in mm	6.2 / 57.8 / --
• Height (NS 35/7.5 / NS 35/15) in mm	49.1 / 56.6
Technical specifications acc. to IEC/DIN VDE	
• Max. load current in A / cross-section in mm ²	20 / 6
• Rated impulse withstand voltage in kV / pollution degree	6 kV / 3
• Rated insulation voltage (working voltage) U_i in V acc. to IEC 60497-7-1	500
• Overvoltage category / molded plastic group	III / I
Connection capacities	
• Flexible with end sleeve, with plastic sleeve in mm ²	0.25 ... 4
• Flexible with end sleeve, without plastic sleeve in mm ²	0.25 ... 4
• Flexible with two-wire connection end sleeve, with plastic sleeve in mm ²	0.5 ... 2.5
• Rigid in mm ²	0.14 ... 6
Stripped length in mm	9
Tightening torque in Nm	0.6 ... 0.8
Molded plastic type	PA
• Flammability class acc. to UL 94	V0
Approval data (UL/cUL and CSA)	
• Rated voltage / rated current / conductor sizes	
- UL/cUL: in V/A / AWG	600 / 16 / 26-10
- CSA: in V/A / AWG	600 / 16 / 26-10

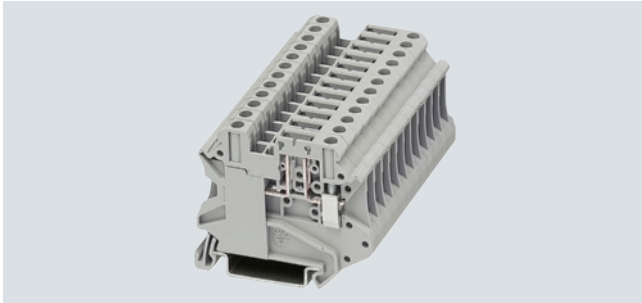
Selection and ordering data

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
Terminal size 4 mm²						
 8WH1 000-6CG00		Isolating blade terminals, terminal size 4 mm²				
		<ul style="list-style-type: none"> • C^{UL} US • Terminal width 6.2 mm • $I_{max} = 20$ A • $U_{max} = 500$ V • AWG 26-12 • Connection capacity, one conductor <ul style="list-style-type: none"> - Rigid 0.14 ... 4 mm² - Flexible 0.14 ... 4 mm² • Connection capacity, two conductors <ul style="list-style-type: none"> - Rigid 0.14 ... 1.5 mm² - Flexible 0.14 ... 1.5 mm² • Enclosed at both ends • Gray 	8WH1 000-6CG00		1 50 units	044
Accessories						
		Warning covers, for terminal size 4 mm²				
		<ul style="list-style-type: none"> • Lightning symbol • Width 6.2 mm • Yellow 				
		8WH9 063-5BA06		100 50 units	044	

Note:

For general accessories for 8WH terminal blocks, [see chapter 8](#).

Overview



8WH isolating terminals serve for mounting various function plugs.

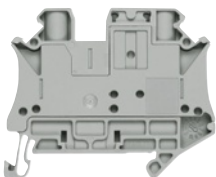
The individual clamping points can be inscribed at the front using labels.

Technical specifications

	8WH1 000-6AG00	8WH1 000-6AH00
Dimensions		
• Width/length/cover width in mm	6.2 / 57.8 / --	
• Height (NS 35/7.5 / NS 35/15) in mm	49.1 / 56.6	73 / 80.5
Technical specifications acc. to IEC/DIN VDE		
• Max. load current in A / cross-section in mm ²	20 / 6	20 / 10
• Rated impulse withstand voltage in kV / pollution degree	6 kV / 3	
• Rated insulation voltage (working voltage) U_i in V acc. to IEC 60497-7-1	500	
• Overvoltage category / molded plastic group	III / I	
Connection capacities		
• Flexible with end sleeve, with plastic sleeve in mm ²	0.25 ... 4	0.26 ... 6
• Flexible with end sleeve, without plastic sleeve in mm ²	0.25 ... 4	0.26 ... 6
• Flexible with two-wire connection end sleeve, with plastic sleeve in mm ²	0.5 ... 2.5	0.5 ... 4
• Rigid in mm ²	0.14 ... 6	0.2 ... 10
Stripped length in mm	9	10
Tightening torque in Nm	0.6 ... 0.8	1.5 ... 1.8
Molded plastic type	PA	
• Flammability class acc. to UL 94	V0	
Approval data (UL/cUL and CSA)		
• Rated voltage / rated current / conductor sizes		
- UL/cUL: in V/A / AWG	600 / 16 / 26-10	-- / -- / --
- CSA: in V/A / AWG	600 / 16 / 26-10	-- / -- / --

Selection and ordering data

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS* / P. unit	PG
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Terminal size 4 mm²

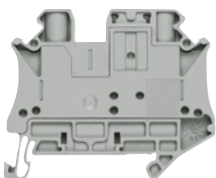
8WH1 000-6AG00

Isolating terminals, terminal size 4 mm²

- US
- Terminal width 6.2 mm
- $I_{max} = 20$ A
- $U_{max} = 400$ V
- AWG 26-10
- Connection capacity, one conductor
 - Rigid 0.14 ... 6 mm²
 - Flexible 0.14 ... 6 mm²
- Connection capacity, two conductors
 - Rigid 0.14 ... 1.5 mm²
 - Flexible 0.14 ... 1.5 mm²
- Enclosed at both ends
- Gray

8WH1 000-6AG00

1 50 units 044

Terminal size 6 mm²

8WH1 000-6AH00

Isolating terminals, terminal size 6 mm²

- US
- Terminal width 8.2 mm
- $I_{max} = 20$ A
- $U_{max} = 500$ V
- AWG 24-8
- Connection capacity, one conductor
 - Rigid 0.2 ... 10 mm²
 - Flexible 0.2 ... 10 mm²
- Connection capacity, two conductors
 - Rigid 0.2 ... 2.5 mm²
 - Flexible 0.2 ... 2.5 mm²
- Enclosed at both ends
- Gray

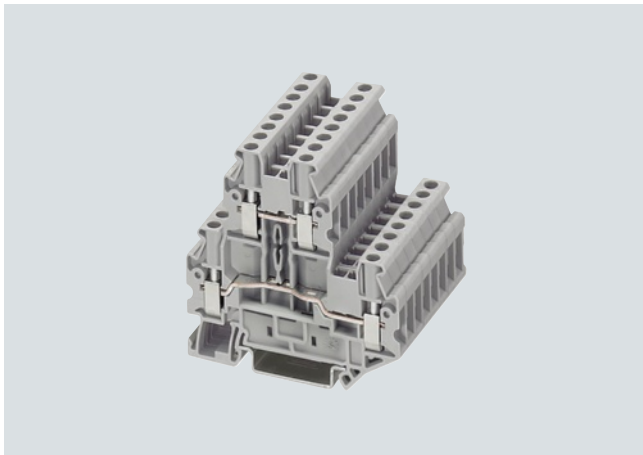
8WH1 000-6AH00

1 50 units 044

8WH1 Screw Terminals

8WH two-tier terminals

Overview



The compact 8WH1 two-tier terminal is available in the nominal cross-sections 2.5 and 4 mm². The voltage levels routed in a 5.2 mm or 6.2 mm grid through two tiers reduce the space required in the control cabinet by a further 50%. Two integral bridge shafts per tier and two facilities for large inscriptions of all clamping points are provided.

With 8WH1 025 two-tier terminals the upper and lower level are connected.

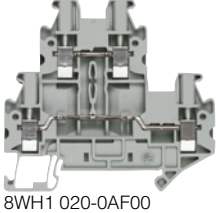

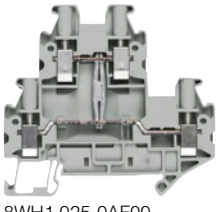
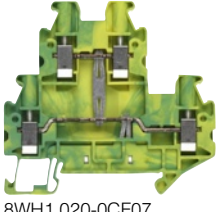

The tier offset on the 8WH two-tier terminals allows for excellent access to the lower level, even when fully wired. Spacer plates can be used to compensate for the tier offset if other terminals are mounted side by side.

The clamping points of the 8WH1 two-tier terminals can be inscribed at the front using the labels.

Technical specifications

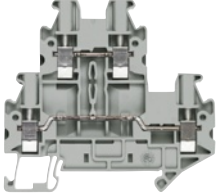

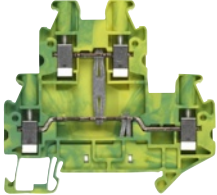




	8WH1 020-0AF00 8WH1 020-0AF01	8WH1 020-0AG00 8WH1 020-0AG01	8WH1 020-0CF07	8WH1 020-0CG07
Dimensions				
• Width/length/cover width in mm	5.2 / 69.9 / 2.2	6.2 / 69.9 / 2.2	5.2 / 69.9 / 2.2	6.2 / 69.9 / 2.2
• Height (NS 35/7.5 / NS 35/15) in mm	65 / 72.5			
Technical specifications acc. to IEC/DIN VDE				
• Max. load current in A / cross-section in mm ²	28 / 4	36 / 6	-- / 4	-- / 6
• Rated impulse withstand voltage in kV / pollution degree	6 kV / 3	8 kV / 3		
• Rated insulation voltage (working voltage) U_i in V acc. to IEC 60497-7-1	500	800	--	
• Overvoltage category / molded plastic group	III / I			
Connection capacities				
• Flexible with end sleeve, with plastic sleeve in mm ²	0.25 ... 2.5	0.25 ... 4	0.25 ... 2.5	0.25 ... 4
• Flexible with end sleeve, without plastic sleeve in mm ²	0.25 ... 2.5	0.25 ... 4	0.25 ... 2.5	0.25 ... 4
• Flexible with two-wire connection end sleeve, with plastic sleeve in mm ²	0.5 ... 1.5	0.5 ... 2.5	0.5 ... 1.5	0.5 ... 2.5
• Rigid in mm ²	0.14 ... 4	0.14 ... 6	0.14 ... 4	0.14 ... 6
Stripped length in mm	9			
Tightening torque in Nm	0.5 ... 0.6	0.6 ... 0.8	0.5 ... 0.6	0.6 ... 0.8
Molded plastic type	PA			
• Flammability class acc. to UL 94	V0			
Approval data (UL/cUL and CSA)				
• Rated voltage / rated current / conductor sizes				
- UL/cUL: in V/A / AWG	600 / 20 / 26-12	600 / 30 / 26-12	-- / -- / 26-12	-- / -- / 26-10
- CSA: in V/A / AWG	-- / -- / --			
	8WH1 025-0AF00	8WH1 025-0AG00		
Dimensions				
• Width/length/cover width in mm	6.2 / 69.9 / 2.2			
• Height (NS 35/7.5 / NS 35/15) in mm	65 / 72.5			
Technical specifications acc. to IEC/DIN VDE				
• Max. load current in A / cross-section in mm ²	28 / 4	36 / 6		
• Rated impulse withstand voltage in kV / pollution degree	6 kV / 3	8 kV / 3		
• Rated insulation voltage (working voltage) U_i in V acc. to IEC 60497-7-1	500			
• Overvoltage category / molded plastic group	III / I			
Connection capacities				
• Flexible with end sleeve, with plastic sleeve in mm ²	0.25 ... 2.5	0.25 ... 4		
• Flexible with end sleeve, without plastic sleeve in mm ²	0.25 ... 2.5	0.25 ... 4		
• Flexible with two-wire connection end sleeve, with plastic sleeve in mm ²	0.5 ... 1.5	0.5 ... 2.5		
• Rigid in mm ²	0.14 ... 4	0.14 ... 6		
Stripped length in mm	9			
Tightening torque in Nm	0.5 ... 0.6	0.6 ... 0.8		
Molded plastic type	PA			
• Flammability class acc. to UL 94	V0			
Approval data (UL/cUL and CSA)				
• Rated voltage / rated current / conductor sizes				
- UL/cUL: in V/A / AWG	600 / 20 / 26-12	600 / 30 / 26-10		
- CSA: in V/A / AWG	-- / -- / --			

Selection and ordering data

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
Terminal size 2.5 mm²						
 8WH1 020-0AF00	Two-tier terminals, terminal size 2.5 mm² <ul style="list-style-type: none"> •  US • Terminal width 5.2 mm • $I_{max} = 28$ A • $U_{max} = 500$ V • AWG 26-12 • Connection capacity, one conductor <ul style="list-style-type: none"> - Rigid 0.14 ... 4 mm² - Flexible 0.14 ... 4 mm² • Connection capacity, two conductors <ul style="list-style-type: none"> - Rigid 0.14 ... 1.5 mm² - Flexible 0.14 ... 1.5 mm² 					
	Versions <ul style="list-style-type: none"> • Gray <ul style="list-style-type: none"> - Without equipotential bonding - With equipotential bonding • Blue <ul style="list-style-type: none"> - Without equipotential bonding 					
 8WH1 025-0AF00			8WH1 020-0AF00 8WH1 025-0AF00	1	50 units	044
			8WH1 020-0AF01	1	50 units	044
 8WH1 020-0CF07	PE two-tier terminals, terminal size 2.5 mm² <ul style="list-style-type: none"> •  US • Terminal width 5.2 mm • AWG 26-12 • Connection capacity, one conductor <ul style="list-style-type: none"> - Rigid 0.14 ... 4 mm² - Flexible 0.14 ... 4 mm² • Connection capacity, two conductors <ul style="list-style-type: none"> - Rigid 0.14 ... 1.5 mm² - Flexible 0.14 ... 1.5 mm² • Green/yellow 					

8WH1 Screw Terminals

8WH two-tier terminals

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
Terminal size 4 mm²						
 <p>8WH1 020-0AG00</p>		<p>Two-tier terminals, terminal size 4 mm²</p> <ul style="list-style-type: none"> •  US • Terminal width 6.2 mm • $I_{max} = 36$ A • $U_{max} = 800$ V • AWG 26-10 • Connection capacity, one conductor <ul style="list-style-type: none"> - Rigid 0.14 ... 6 mm² - Flexible 0.14 ... 6 mm² • Connection capacity, two conductors <ul style="list-style-type: none"> - Rigid 0.14 ... 1.5 mm² - Flexible 0.14 ... 1.5 mm² <p>Versions</p> <ul style="list-style-type: none"> • Gray <ul style="list-style-type: none"> - Without equipotential bonding - With equipotential bonding • Blue <ul style="list-style-type: none"> - Without equipotential bonding 				
		8WH1 020-0AG00		1	50 units	044
		8WH1 025-0AG00		1	50 units	044
		8WH1 020-0AG01		1	50 units	044
 <p>8WH1 020-0CG07</p>		<p>PE two-tier terminals, terminal size 4 mm²</p> <ul style="list-style-type: none"> •  US • Terminal width 6.2 mm • AWG 26-10 • Connection capacity, one conductor <ul style="list-style-type: none"> - Rigid 0.14 ... 6 mm² - Flexible 0.14 ... 6 mm² • Connection capacity, two conductors <ul style="list-style-type: none"> - Rigid 0.14 ... 1.5 mm² - Flexible 0.14 ... 1.5 mm² • Green/yellow 				
		8WH1 020-0CG07		1	50 units	044
Accessories						
 <p>8WH9 000-1QA00</p>		<p>Covers, for two-tier terminals, for terminal size 2.5 ... 4 mm²</p> <ul style="list-style-type: none"> • Width 2.2 mm • Gray 				
		8WH9 000-1QA00		100	50 units	044
 <p>8WH9 160-0AA00</p>		<p>Spacer plates, for two-tier terminals, for terminal size 2.5 ... 4 mm²</p> <ul style="list-style-type: none"> • Compensates for tier offset if other terminals are mounted side by side • 2.5 mm thick • Gray 				
		8WH9 160-0AA00		100	50 units	044
 <p>8WH9 070-6FA00</p>		<p>Compartment partitions, for two-tier terminals, for terminal size 2.5 ... 4 mm²</p> <ul style="list-style-type: none"> • For visual and electrical separation of terminal groups • 2 mm thick • Gray 				
		8WH9 070-6FA00		100	50 units	044

Note:

For general accessories for 8WH terminal blocks, [see chapter 8](#).

8WH two-tier terminals with isolating function/isolating blade

Overview



Two-tier terminals with isolating function/isolating blade are also available with the same contour as 8WH1 two-tier terminals.

An increasing number of contact points need to be wired in the same space in the signal wiring. The two voltage levels routed through two separate tiers require 50% less space than equivalent single-tier terminals.

To implement a wide range of wiring tasks, particularly in measuring and control technology, an isolating blade or an isolating plug, a component plug or a fused plug for 5 x 20 mm glass tube fuses can be used in the standardized separation zone in the upper tier.

The looping of measuring devices is possible over the terminal screws with integrated test socket so that voltage and current measurements can be performed on both tiers without interruption. The tier offset makes access to the lower tier much easier.

The clamping points of two-tier terminals can be inscribed at the front using the labels.

Technical specifications

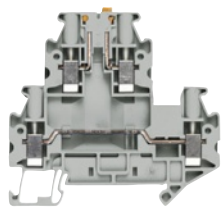
	8WH1 020-6AC00	8WH1 020-6AG00
Dimensions		
• Width/length/cover width in mm	6.2 / 69.9 / 2.2	
• Height (NS 35/7.5 / NS 35/15) in mm	65 / 72.5	
Technical specifications acc. to IEC/DIN VDE		
• Max. load current in A / cross-section in mm ²	38 ¹⁾ / 6	
• Rated impulse withstand voltage in kV / pollution degree	6 kV / 3	
• Rated insulation voltage (working voltage) U_i in V acc. to IEC 60497-7-1	500	
• Overvoltage category / molded plastic group	III / I	
Connection capacities		
• Flexible with end sleeve, with plastic sleeve in mm ²	0.25 ... 4	
• Flexible with end sleeve, without plastic sleeve in mm ²	0.25 ... 4	
• Flexible with two-wire connection end sleeve, with plastic sleeve in mm ²	0.5 ... 2.5	
• Rigid in mm ²	0.14 ... 6	
Stripped length in mm	9	
Tightening torque in Nm	0.6 ... 0.8	
Molded plastic type	PA	
• Flammability class acc. to UL 94	V0	
Approval data (UL/cUL and CSA)		
• Rated voltage / rated current / conductor sizes	600 / 5 / 26-10	
- UL/cUL: in V/A / AWG	-- / -- / --	
- CSA: in V/A / AWG		

1) Bottom level

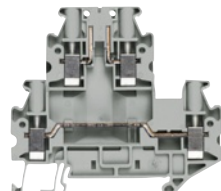
Selection and ordering data

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS* / P. unit	PG

Terminal size 4 mm²



8WH1 020-6AC00



8WH1 020-6AG00

Two-tier terminal, with isolating function/isolating blade, terminal size 4 mm²

- US
- Terminal width 6.2 mm
- $I_{max} = 38$ A
- $U_{max} = 500$ V
- AWG 26-10
- Connection capacity, one conductor
 - Rigid 0.14 ... 6 mm²
 - Flexible 0.14 ... 6 mm²
- Connection capacity, two conductors
 - Rigid 0.14 ... 1.5 mm²
 - Flexible 0.14 ... 1.5 mm²



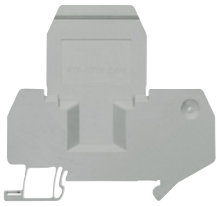
Versions

- Isolating links in the upper tier
- Isolating terminal in the upper tier

8WH1 020-6AC00 8WH1 020-6AG00	1 50 units	044
	1 50 units	044

8WH1 Screw Terminals

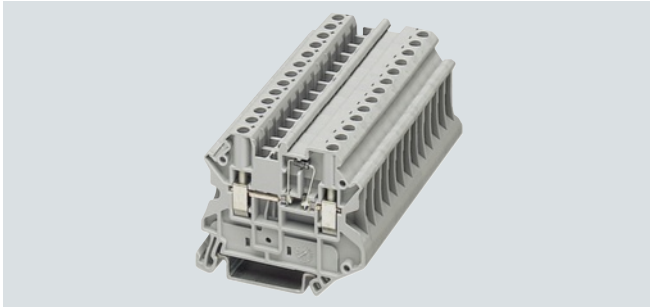
8WH two-tier terminals with isolating function/isolating blade

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG
Accessories						
 8WH9 000-1QA00		8WH9 000-1QA00		100	50 units	044
Covers, for two-tier terminals, for terminal size 2.5 ... 4 mm² <ul style="list-style-type: none"> • Width 2.2 mm • Gray 						
 8WH9 160-0AA00		8WH9 160-0AA00		100	50 units	044
Spacer plates, for two-tier terminals, for terminal size 2.5 ... 4 mm² <ul style="list-style-type: none"> • Compensates for tier offset if other terminals are mounted side by side • 2.5 mm thick • Gray 						
 8WH9 070-6FA00		8WH9 070-6FA00		100	50 units	044
Compartment partitions, for two-tier terminals, for terminal size 2.5 ... 4 mm² <ul style="list-style-type: none"> • For visual and electrical separation of terminal groups • 2 mm thick • Gray 						

Note:

For general accessories for 8WH terminal blocks, [see chapter 8](#).

Overview



8WH diode terminals can be used to implement many different wiring tasks. The 1N 4007 diode is soldered in from left to right or vice versa as required.

The double bridge shaft allows for combination with all standard and function terminals.

The 8WH diode terminals have the same contour as the 8WH isolating, isolating blade and fuse terminals. This has the advantage of enabling consistent inscriptions on all clamping points. Secure electrical and mechanical contact with the support rail is assured by simply snapping the terminals onto the rail.

The clamping points of diode terminals can be inscribed at the front using the labels.

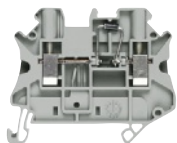
Technical specifications

	8WH1 000-6KG00	8WH1 000-6LG00
Dimensions		
• Width/length/cover width in mm	6.2 / 57.8 / 2.2	
• Height (NS 35/7.5 / NS 35/15) in mm	47.5 / 55	
Technical specifications acc. to IEC/DIN VDE		
• Max. load current in A ¹⁾ / cross-section in mm ²	-- / 6	
• Rated impulse withstand voltage in kV / pollution degree	8 kV / 3	
• Rated insulation voltage (working voltage) U_i in V acc. to IEC 60497-7-1	800	
• Overvoltage category / molded plastic group	III / I	
Connection capacities		
• Flexible with end sleeve, with plastic sleeve in mm ²	0.25 ... 4	
• Flexible with end sleeve, without plastic sleeve in mm ²	0.25 ... 4	
• Flexible with two-wire connection end sleeve, with plastic sleeve in mm ²	0.5 ... 2.5	
• Rigid in mm ²	0.14 ... 6	
Stripped length in mm	9	
Tightening torque in Nm	0.6 ... 0.8	
Molded plastic type	PA	
• Flammability class acc. to UL 94	V0	
Approval data (UL/cUL and CSA)		
• Rated voltage / rated current / conductor sizes		
- UL/cUL: in V/A / AWG	600 / 1 / 26-10	600 / 1 / 26-10
- CSA: in V/A / AWG	600 / 1 / 26-10	600 / 1 / 26-10

¹⁾ Maximum current determined by diode. A 1N 4007 diode is integrated, blocking voltage: 1300 V, max. continuous current: 0.5 A

Selection and ordering data

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS* / P. unit	PG
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Terminal size 4 mm²

8WH1 000-6KG00

Diode terminals, terminal size 4 mm², gray, C_{UL} US, ®

- Terminal width 6.2 mm
- $I_{max} = 0.5 A$, $U_{max} = 800 V$
- AWG 26-10
- Connection capacity, one conductor
 - Rigid 0.14 ... 6 mm², flexible 0.14 ... 6 mm²
- Connection capacity, two conductors
 - Rigid 0.14 ... 1.5 mm², flexible 0.14 ... 1.5 mm²
- With integrated diode: 1N 4007

Versions

- Let-through from left to right
- Let-through from right to left

8WH1 000-6LG00	1 50 units	044
8WH1 000-6KG00	1 50 units	044

Accessories



8WH9 000-2PA00

Covers, for diode terminals, for terminal size 2.5 ... 4 mm²

- Width 2.2 mm
- Gray

8WH9 000-2PA00	100 50 units	044
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Warning covers, for terminal size 4 mm²

- Lightning symbol, yellow

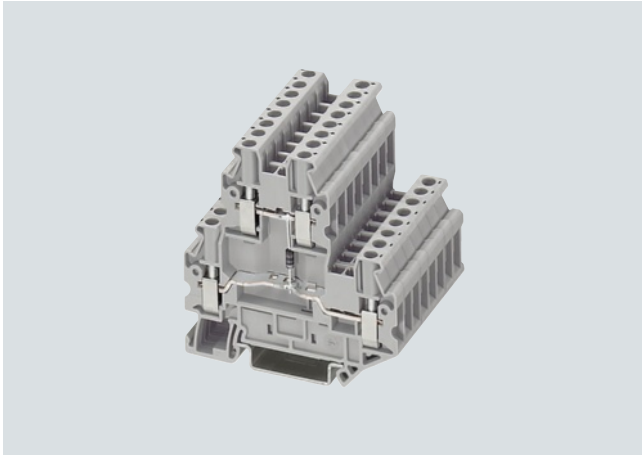
8WH9 063-5BA06	100 50 units	044
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Note: For general accessories for 8WH terminal blocks, see chapter 8.

8WH1 Screw Terminals

8WH two-tier diode terminals

Overview



8WH two-tier diode terminals with a width of only 5.2 mm can be used to implement many different wiring tasks. This makes the following possible in the narrowest of spaces:

- Freewheel diode circuits
- Lamp test circuits
- Signaling and fault signaling circuits.

The clamping points of the 8WH1 two-tier diode terminals can be inscribed at the front using the labels.

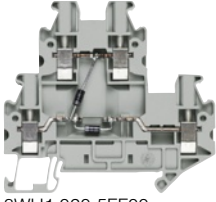




7

Technical specifications

	8WH1 020-5AF00	8WH1 020-5BF00	8WH1 020-5DF00	8WH1 020-5FF00	8WH1 020-5HF00
Dimensions					
• Width/length/cover width in mm	5.2 / 69.9 / 2.2				
• Height (NS 35/7.5 / NS 35/15) in mm	65 / 72.5				
Technical specifications acc. to IEC/DIN VDE					
• Max. load current in A ¹⁾ / cross-section in mm ²	28 / 4				
• Rated impulse withstand voltage in kV / pollution degree	6 kV / 3				
• Rated insulation voltage (working voltage) U_i in V acc. to IEC 60497-7-1	500				
• Overvoltage category / molded plastic group	III / I				
Connection capacities					
• Flexible with end sleeve, with plastic sleeve in mm ²	0.25 ... 2.5				
• Flexible with end sleeve, without plastic sleeve in mm ²	0.25 ... 2.5				
• Flexible with two-wire connection end sleeve, with plastic sleeve in mm ²	0.5 ... 1.5				
• Rigid in mm ²	0.14 ... 4				
Stripped length in mm	9				
Tightening torque in Nm	0.5 ... 0.6				
Molded plastic type	PA				
• Flammability class acc. to UL 94	V0				
Approval data (UL/cUL and CSA)					
• Rated voltage / rated current / conductor sizes					
- UL/cUL: in V/A / AWG	-- / -- / --				
- CSA: in V/A / AWG	-- / -- / --				

¹⁾ Maximum current determined by diode.
Integrated: diode 1N 4007, blocking voltage: 1300 V
max. continuous current: 0.5 A

Selection and ordering data

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
Terminal size 2.5 mm²						
 <p>8WH1 020-5FF00</p>	Two-tier diode terminals, terminal size 2.5 mm² <ul style="list-style-type: none"> •  US • Terminal width 6.2 mm • $I_{max} = 0.5$ A • $U_{max} = 800$ V • AWG 26-10 • Connection capacity, one conductor <ul style="list-style-type: none"> - Rigid 0.14 ... 4 mm² - Flexible 0.14 ... 4 mm² • Connection capacity, two conductors <ul style="list-style-type: none"> - Rigid 0.14 ... 1.5 mm² - Flexible 0.14 ... 1.5 mm² • With integrated diode: 1N 4007 • Gray 					
	Versions <ul style="list-style-type: none"> • With 1N 4007 diode integrated <ul style="list-style-type: none"> - Let-through from top to bottom - Let-through from bottom to top - Let-through from bottom left to top right • With two 1N 4007 diodes integrated <ul style="list-style-type: none"> - Let-through from top to bottom left and from bottom right to bottom left - Let-through from top to bottom left and from top to bottom right 					
			8WH1 020-5AF00		1 50 units	044
			8WH1 020-5BF00		1 50 units	044
			8WH1 020-5DF00		1 50 units	044
			8WH1 020-5FF00		1 50 units	044
		8WH1 020-5HF00		1 50 units	044	
Accessories						
 <p>8WH9 000-1QA00</p>	Covers, for two-tier terminals, for terminal size 2.5 ... 4 mm² <ul style="list-style-type: none"> • Width 2.2 mm • Gray 		8WH9 000-1QA00		100 50 units	044
 <p>8WH9 160-0AA00</p>	Spacer plates, for two-tier terminals, for terminal size 2.5 ... 4 mm² <ul style="list-style-type: none"> • Compensates for tier offset if other terminals are mounted side by side • 2.5 mm thick • Gray 		8WH9 160-0AA00		100 50 units	044
 <p>8WH9 070-6FA00</p>	Compartment partitions, for two-tier terminals, for terminal size 2.5 ... 4 mm² <ul style="list-style-type: none"> • For visual and electrical separation of terminal groups • 2 mm thick • Gray 		8WH9 070-6FA00		100 50 units	044

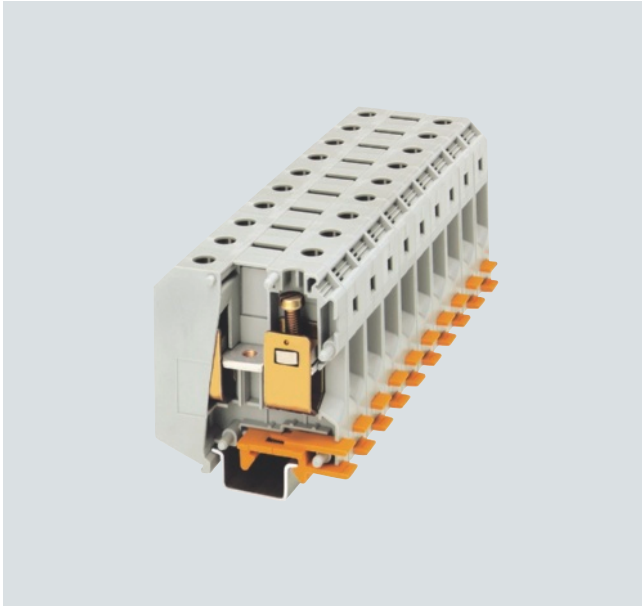
Note:

For general accessories for 8WH terminal blocks, see chapter 8.

8WH1 Screw Terminals

8WH high-current terminals

Overview



The high-current terminals cover cross-sectional areas from 16 to 240 mm². A reliable cable connection is ensured through effective design measures, such as:

- Three-point centering of the conductor in the prismatic sleeve base
- Low contact resistance of the contact area through grooved surface
- Screw locking through spring-loaded elements
- Terminals enclosed at both ends.

The terminals have an enclosed insulating body made of polyamide 6.6.

The terminals are available in gray and blue.

8WH labels must be used at the front for inscription purposes.

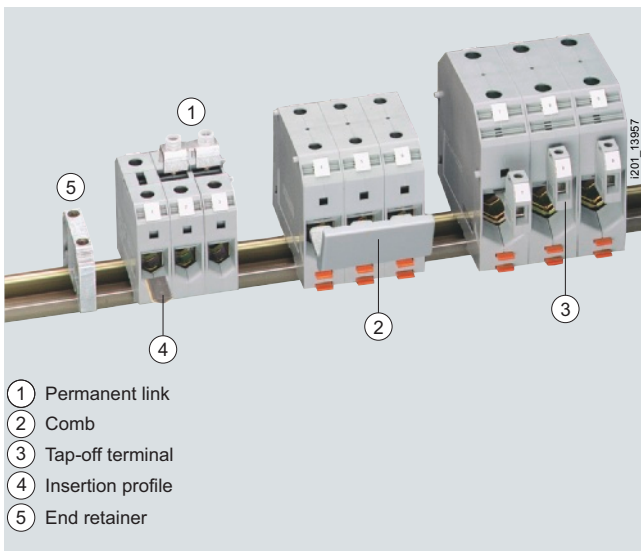
For terminals with terminal sizes up to 95 mm², green-yellow PE/ground conductor terminals are available.

Mounting on support rails acc. to IEC 60715.

Benefits

- Larger connection up to 240 mm²
- The right terminal is always available - whatever the connection functions
- Simple inscription using 8WH standard
- Comprehensive range of accessories available
- Enclosed insulating body made of polyamide 6.6.

Design



Assembled terminal blocks

Using the 50 mm² terminals, permanent links can be mounted in 2 and 3-pole versions. Combs are required with 95 ... 240 mm² terminals.






Technical specifications

	8WH1 000-0AN00 8WH1 000-0AN01	8WH1 000-0CN07	8WH1 000-0AQ00 8WH1 000-0AQ01
Dimensions			
• Width/length in mm	20 / 70.5		25 / 83
• Height (TS 35/7.5 / TS 35/15 / TS 32) in mm	-- / 83.5 / 81.5		-- / 97.5 / 95.5
Technical specifications acc. to IEC/DIN VDE			
• Max. load current in A / cross-section in mm ²	150 / 50		232 / 95
• Maximum cross-section with comb (rigid/flexible) in mm ²	--		95 / 70
• Rated impulse withstand voltage in kV / pollution degree	8 / 3		
• Overvoltage category / molded plastic group	III / I		
Connection capacities			
• Flexible with end sleeve without/with plastic sleeve in mm ²	25 ... 50 / 25 ... 50		35 ... 95 / 35 ... 95
Multi-conductor connection (two conductors of same cross-section)			
• Rigid/flexible in mm ²	10 ... 16 / 10 ... 16		25 ... 35 / 25 ... 35
• Flexible with end sleeve, without plastic sleeve in mm ²	10 ... 16		16 ... 35
Stripped length in mm	24		33
Plug gauge (IEC 60947-1)	B10		B12
Screw thread	M6	--	M8
Tightening torque in Nm	6 ... 8	--	15 ... 20
Clamping point: screw thread / tightening torque in Nm	--	M6 / 6 ... 8	--
Fixing: screw thread / tightening torque in Nm	--	M6 / 6 ... 8	--
Molded plastic type	PA		
• Flammability class acc. to UL 94	V0		
Approval data (UL/cUL and CSA)			
• Rated voltage / rated current / conductor sizes			
- UL/cUL: V/A/AWG	600 / 150 / 6 - 0	6 - 1 / 0	600 / 230 / 2 - 000
- CSA: V/A/AWG	600 / 125 / 6 - 0	--	600 / 230 / 1 - 000
Support rails/protective conductor busbars	--	See section "Support rails" on page 1/3	--
	8WH1 000-0CQ07	8WH1 000-0AS00 8WH1 000-0AS01	8WH1 000-0AU00 8WH1 000-0AU01
Dimensions			
• Width/length in mm	25 / 83	31 / 100	36 / 100
• Height (TS 35/7.5 / TS 35/15 / TS 32) in mm	-- / 99 / 96.5	-- / 118.5 / 116	-- / 131.5 / 129.5
Technical specifications acc. to IEC/DIN VDE			
• Max. load current in A / cross-section in mm ²	232 / 95	309 / 150	415 / 240
• Maximum cross-section with comb (rigid/flexible) in mm ²	--	150 / 120	240 / 185
• Rated impulse withstand voltage in kV / pollution degree	8 / 3		
• Overvoltage category / molded plastic group	III / I		
Connection capacities			
• Flexible with end sleeve without/with plastic sleeve in mm ²		50 ... 150 / 50 ... 150	70 ... 185 / 70 ... 185
Multi-conductor connection (two conductors of same cross-section)			
• Rigid/flexible in mm ²	25 ... 35 / 25 ... 35	25 ... 50 / 35 ... 50	35 ... 95 / 50...95
• Flexible with end sleeve, without plastic sleeve in mm ²	16 ... 35	25 ... 50	35 ... 50
Stripped length in mm	30	40	
Plug gauge (IEC 60947-1)	B12	B14	B15
Screw thread	--	M10	
Tightening torque in Nm	--	25 ... 30	
Clamping point: screw thread / tightening torque in Nm	M8 / 15 ... 20 (hexagon socket-head screw)	--	--
Fixing: screw thread / tightening torque in Nm	M8 / 15 ... 20 (hexagon socket-head screw)	--	--
Molded plastic type	PA		
• Flammability class acc. to UL 94	V0		
Approval data (UL/cUL and CSA)			
• Rated voltage / rated current / conductor sizes			
- UL/cUL: V/A/AWG	2 ... 4 / 0	600 / 285 / 2 AWG - 300 kcmil	600 / 380 / 00 - 500 kcmil
- CSA: V/A/AWG	2 ... 4 / 0	600 / 275 / 2 AWG - 300 kcmil	600 / 400 / 0 - 500 kcmil
Support rails/protective conductor busbars	See section "Support rails" on page 1/3	--	--







8WH1 Screw Terminals

8WH high-current terminals

Selection and ordering data

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
Terminal size 50 mm²						
 <p>8WH1 000-0AN00</p>	High-current terminals, terminal size 50 mm² <ul style="list-style-type: none"> Enclosed at both ends Terminal width 20 mm CSUs IEC 60947-7-1 <ul style="list-style-type: none"> Rigid 16 ... 50 mm² Flexible 25 ... 50 mm² AWG 6-0 I = 150 A U = 1000 V 					
	Versions <ul style="list-style-type: none"> Gray Blue 					
 <p>8WH1 000-0CN07</p>	High-current PE terminals, terminal size 50 mm² <ul style="list-style-type: none"> Green/yellow Enclosed at both ends Terminal width 20 mm CSUs IEC 60947-7-1 <ul style="list-style-type: none"> Rigid 16 ... 50 mm² Flexible 25 ... 50 mm² AWG 6-0 I = 150 A U = 1000 V 					
Terminal size 95 mm²						
 <p>8WH1 000-0AQ00</p>	High-current terminals, terminal size 95 mm² <ul style="list-style-type: none"> Enclosed at both ends Terminal width 25 mm CSUs IEC 60947-7-1 <ul style="list-style-type: none"> Rigid 25 ... 95 mm² Flexible 35 ... 95 mm² AWG 4-000 I = 232 A U = 1000 V 					
	Versions <ul style="list-style-type: none"> Gray Blue 					
 <p>8WH1 000-0CQ07</p>	High-current PE terminals, terminal size 95 mm² <ul style="list-style-type: none"> Green/yellow Enclosed at both ends Terminal width 25 mm CSUs IEC 60947-7-1 <ul style="list-style-type: none"> Rigid 25 ... 95 mm² Flexible 35 ... 95 mm² AWG 4-000 I = 232 A U = 1000 V 					
 <p>8WA1 010-1PQ00</p>	High-current PE terminals and high-current PEN terminals, terminal size 95mm², two screw terminals <ul style="list-style-type: none"> Bare For I = 232 A Mounting width 16 mm Terminal height 63 mm Terminal length 75 mm For 35 mm x 15 mm standard mounting rail only 					
	Note 8WH accessories do not match this terminal.					

8WH high-current terminals

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
Terminal size 150 mm²						
						
8WH1 000-0AS00						
High-current terminals, terminal size 150 mm²						
<ul style="list-style-type: none"> Enclosed at both ends Terminal width 31 mm CE mark IEC 60947-7-1 <ul style="list-style-type: none"> Rigid 35 ... 150 mm² Flexible 50 ... 150 mm² AWG 2-300 I = 309 A U = 1000 V 						
Versions						
<ul style="list-style-type: none"> Gray Blue 						
		8WH1 000-0AS00		1 10 units	044	
		8WH1 000-0AS01		1 10 units	044	
Terminal size 240 mm²						
						
8WH1 000-0AU00						
High-current terminals, terminal size 240 mm²						
<ul style="list-style-type: none"> Enclosed at both ends Terminal width 36 mm CE mark IEC 60947-7-1 <ul style="list-style-type: none"> Rigid 70 ... 240 mm² Flexible 70 ... 240 mm² AWG 00-500 I = 415 A U = 1000 V 						
Versions						
<ul style="list-style-type: none"> Gray Blue 						
		8WH1 000-0AU00		1 10 units	044	
		8WH1 000-0AU01		1 10 units	044	
Accessories						
						
8WH9 120-0AA00						
Tap-off terminals						
<ul style="list-style-type: none"> When wiring a pick-off with a smaller cross-section, observe the overload and short-circuit strength specified in VDE 0100 Part 430 I_{max}: 57 A Cross-section: 10 mm² 						
Versions						
<ul style="list-style-type: none"> For terminal size 50 mm² For terminal size 95 mm² For terminal size 150 ... 240 mm² 						
		8WH9 120-0AA00		1 10 units	044	
		8WH9 120-0BA00		1 10 units	044	
		8WH9 120-0CA00		1 10 units	044	
						
8WH9 020-3AA00						
Combs						
<ul style="list-style-type: none"> Totally insulated Fitted in the clamping sleeve and latched with the terminal enclosure 						
Versions						
<ul style="list-style-type: none"> For terminal size 95 mm², I_{max}: 232 A <ul style="list-style-type: none"> 2-pole 3-pole For terminal size 150 mm², I_{max}: 232 A <ul style="list-style-type: none"> 2-pole 3-pole For terminal size 240 mm², I_{max}: 320 A <ul style="list-style-type: none"> 2-pole 3-pole 						
		8WH9 020-3AA00		1 10 units	044	
		8WH9 020-3BA00		1 10 units	044	
		8WH9 020-3CA00		1 10 units	044	
		8WH9 020-3DA00		1 10 units	044	
		8WH9 020-3EA00		1 10 units	044	
		8WH9 020-3FA00		1 10 units	044	
						
8WH9 020-3MA00						
Insertion profiles						
Evens out the prismatic sleeve base when using flat conductors						
Versions						
<ul style="list-style-type: none"> For terminal size 50 mm² For terminal size 95 mm² For terminal sizes 150 and 240 mm² 						
		8WH9 020-3MA00		1 10 units	044	
		8WH9 020-3NA00		1 10 units	044	
		8WH9 020-3PA00		1 10 units	044	
						
8WH9 020-6HC00						
Permanent links, for terminal size 50 mm²						
<ul style="list-style-type: none"> For cross links Screw heads with insulating collar Remove partition first I_{max} = 150 A 						
Versions						
<ul style="list-style-type: none"> 2-pole 3-pole 						
		8WH9 020-6HC00		1 10 units	044	
		8WH9 020-6HD00		1 10 units	044	

Note:

For general accessories for 8WH terminal blocks, see chapter 8.

8WH1 Screw Terminals

8WH shield terminals

Overview



In industrial process engineering, a high interference immunity is required for electrical measuring and control equipment. It is a decisive factor in the availability of industrial equipment. When designing low-interference systems, great importance is placed on cable shielding and the respective shield ground. The critical point is where the cable shield is connected to the enclosure ground. The connection should have a low resistance and a low inductive reactance, while being quick and easy to establish. The shield terminals are ideally suited for this purpose and can be used with all common cable shields.

The effectiveness of cable shields depends to a large extent on the contact quality of the shield connection. The shield terminals have a large, low-impedance contact area with the shield, which reduces the voltage drop across it. Connected at one end only, shields can help reduce only low-frequency, capacitive interference, such as that caused by high-voltage installations. To pro-

tect from the much more common inductive interference signals, the cable shield must be connected at both ends.

However, differences in the ground potential can cause a compensating current to flow through the cable shield.

To reduce this interference current, it is advisable to connect the shield at several points along its length. The shorter the spaces between the clamping points, the smaller the compensating currents in the cable shield. In systems where safety is especially important, triaxial shields are used. These consist of two braids that are insulated from each other, with the outer shield connected at both ends and the inner one at only one end. With this arrangement, the equipotential bonding currents and the inductive interference are conducted through the outer shield, and the capacitive interference dissipated through the inner shield.

Depending on the length of the terminal strip, two or more support brackets are fitted, which provide both an electrical and a mechanical connection from the busbar to the support rail and therefore to the enclosure ground. The shield terminal is simply fitted to the busbar after all wires have been connected.

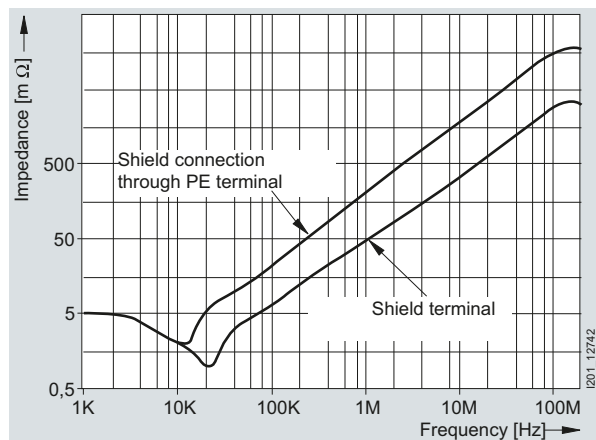
A spring-loaded pressure plate regulates the force applied to the cable to ensure an optimum contact with the busbar at all times.

If the cable shield is to be connected at another point of the control cabinet instead of directly in front of the terminal strip, we recommend using support brackets made of molded plastic.

Technical specifications





	8WH9 130-0KA00	8WH9 130-0LA00	8WH9 130-0MA00	8WH9 130-0NA00	8WH9 130-0PA00
Dimensions	See dimensional drawing	See dimensional drawing	See dimensional drawing	See dimensional drawing	See dimensional drawing
Contact resistance in mΩ		< 1			
Connection data					
• Diameter	2 ... 5	3 ... 8	3 ... 14	3 ... 20	20 ... 35
• Tightening torque in Nm	0.4	0.6	0.8	0.8	1.5 ... 1.8

	8WH9 130-0AA00	8WH9 130-0BA00	8WH9 130-0CA00	8WH9 130-0DA00
Dimensions	See dimensional drawing	See dimensional drawing	See dimensional drawing	See dimensional drawing
Contact resistance in mΩ	The contact resistance is determined by the mounting area.			
Connection data				
• Diameter	3 ... 8	3 ... 14	3 ... 20	20 ... 35
• Tightening torque in Nm	0.6	0.8	0.8	1.5 ... 1.8







Comparison of shield connection through PE terminal and through shield terminal

Selection and ordering data

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
General details						
Note						
<ul style="list-style-type: none"> The shield terminals must not be used for strain relief. Support brackets have galvanic connections from the busbar to the support rail or to the mounting block. Busbar 10 mm × 3 mm 						
Terminal diameter 3 ... 8 mm						
Shield terminal, terminal diameter 3 ... 8 mm						
Versions						
<ul style="list-style-type: none"> For direct shield attachment on conductive mounting plate - Sheet thickness 1 ... 2 mm For busbars 						
		8WH9 130-0AA00		1 10 units		044
8WH9 130-0AA00		8WH9 130-0LA00		1 10 units		044
						
8WH9 130-0LA00						
Terminal diameter 3 ... 14 mm						
Shield terminal, terminal diameter 3 ... 14 mm						
Versions						
<ul style="list-style-type: none"> For direct shield attachment on conductive mounting plate - Sheet thickness 1 ... 2 mm For busbars 						
		8WH9 130-0BA00		1 10 units		044
8WH9 130-0BA00		8WH9 130-0MA00		1 10 units		044
						
8WH9 130-0MA00						



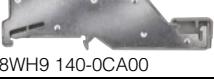

8WH1 Screw Terminals

8WH shield terminals

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
Terminal diameter 3 ... 20 mm						
 <p>8WH9 130-0CA00</p>	Shield terminal, terminal diameter 3 ... 20 mm Versions <ul style="list-style-type: none"> • For direct shield attachment on conductive mounting plate - Sheet thickness 1 ... 2 mm • For busbars 					
 <p>8WH9 130-0NA00</p>			8WH9 130-0NA00	1	10 units	044
Terminal diameter 20 ... 35 mm						
 <p>8WH9 130-0DA00</p>	Shield terminal, terminal diameter 20 ... 35 mm Versions <ul style="list-style-type: none"> • For direct shield attachment on conductive mounting plate - Sheet thickness 1 ... 2 mm • For busbars 					
 <p>8WH9 130-0PA00</p>			8WH9 130-0PA00	1	10 units	044

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8WH shield terminals

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
Accessories						
 8WH9 140-0DA00						
Support brackets						
Versions <ul style="list-style-type: none"> • For terminal cross-section 8 to 35 mm², made of molded plastic and conductive connection <ul style="list-style-type: none"> - With retaining screw - For 10 x 3 mm busbars • For terminal diameter 8 to 20 mm, for mounting rail with clearance of approx. 30 mm to the busbar <ul style="list-style-type: none"> - For 10 x 3 mm busbars • For terminal diameter 8 to 20 mm, for mounting rail with clearance of approx. 65 mm to the busbar <ul style="list-style-type: none"> - For 10 x 3 mm busbars 						
		8WH9 140-0DA00		1	10 units	044
 8WH9 140-0BA00						
		8WH9 140-0BA00		1	10 units	044
 8WH9 140-0CA00						
		8WH9 140-0CA00		1	10 units	044
 8WA2 842						
		8WA2 842		1	1 unit	041
N-busbars, 10 mm x 3 mm <ul style="list-style-type: none"> • Copper, aluminum • 1000 mm long 						

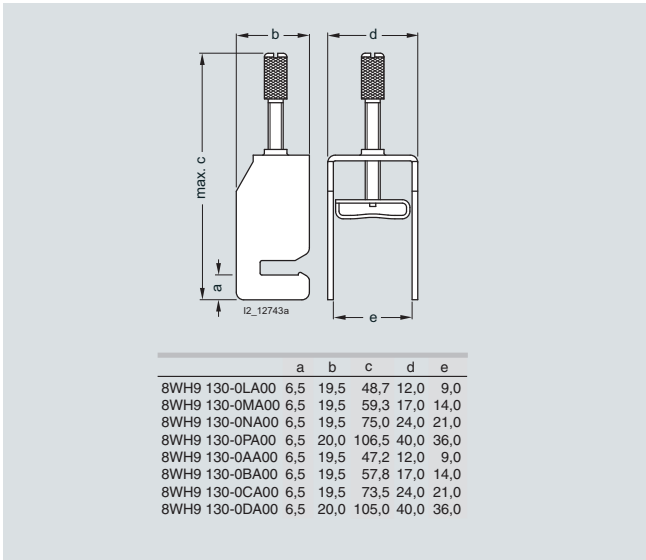
Note:

For general accessories for 8WH terminal blocks, [see chapter 8](#).

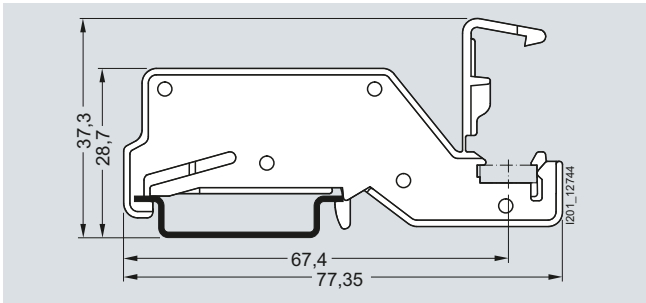
8WH1 Screw Terminals

8WH shield terminals

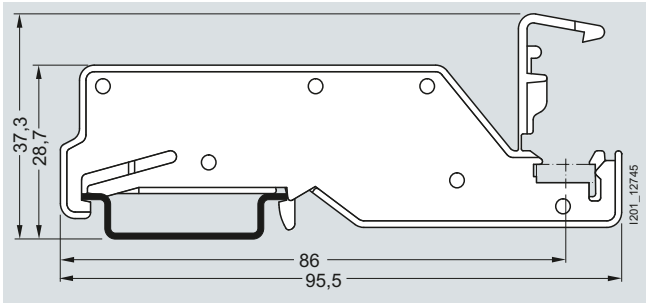
Dimensional drawings



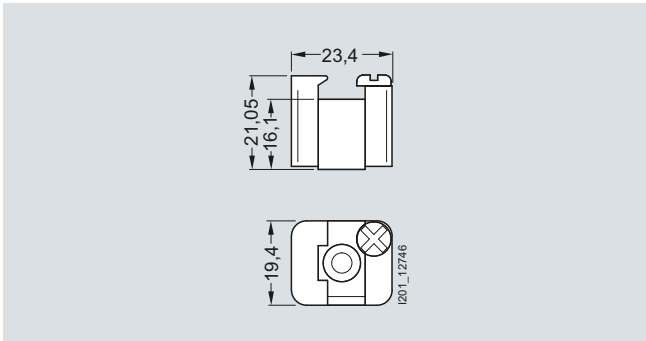
Shield terminals



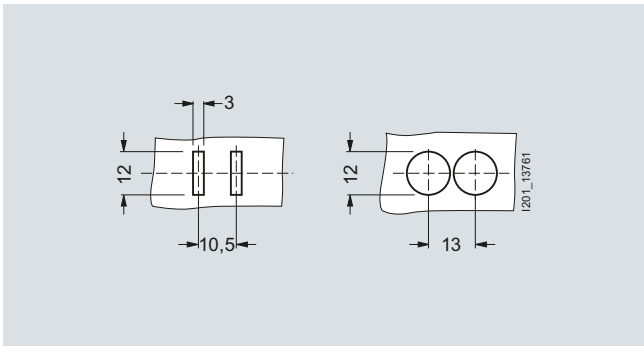
8WH9 140-OBA00



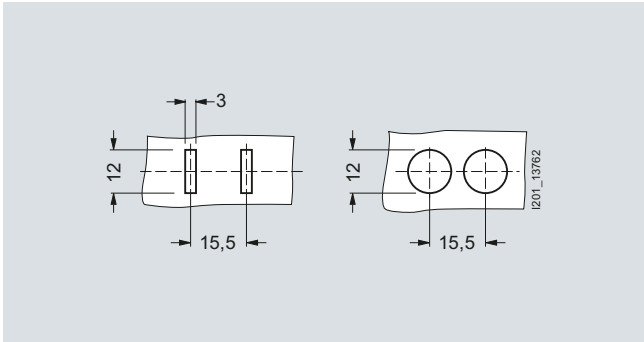
8WH9 140-OCA00



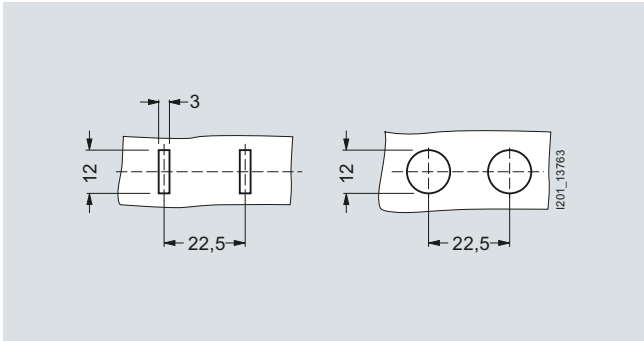
8WH9 140-ODA00



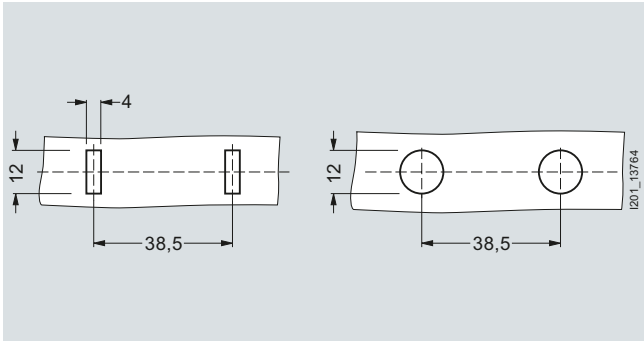
Punching template and drill plan for 8WH9 130-OAA00



Punching template and drill plan for 8WH9 130-OBA00

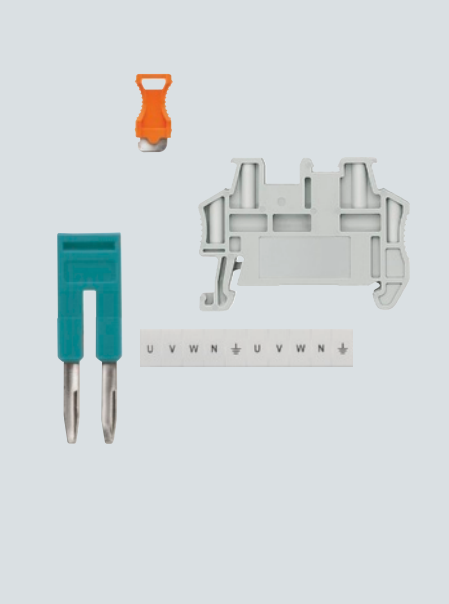


Punching template and drill plan for 8WH9 130-OCA00



Punching template and drill plan for 8WH9 130-ODA00

Accessories for 8WH Terminal Blocks



8/2	Accessories for labeling system
8/3	Standard labeling system
8/8	Mounting accessories

More technical product information:

Service&Support Portal:

www.siemens.com/lowvoltage/technical-support

→ Product List:
Technical specifications


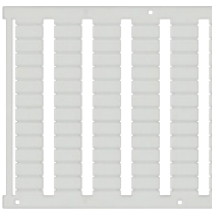
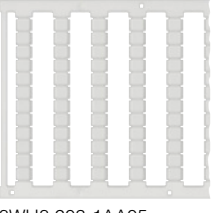
→ Entry List:
Updates / Downloads / FAQ /
Manuals / Operating instructions /
Characteristic curves / Certificates

Accessories for 8WH Terminal Blocks

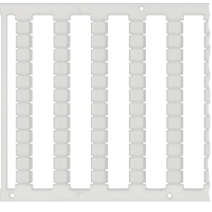
Accessories for labeling system

Selection and ordering data



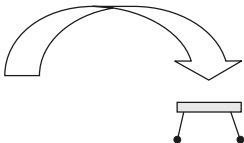
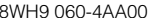
Accessories for ALPHA FIX PRINT printer labeling systems

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
		8WH9 060-6BA08		1	1 unit	044
Fluid cartridges, for ALPHA FIX PRINT printers Black						
		8WH8 202-1AA05		100	1200 units	044
Labels, front, for labeling 8WH terminal blocks using the ALPHA FIX PRINT printer						
Versions						
<ul style="list-style-type: none"> • 4.2 mm wide • 5.2 mm wide • 6.2 mm wide • 8.2 mm wide • 10.2 mm wide • 12.2 mm wide • 16.2 mm wide 		<ul style="list-style-type: none"> 8WH8 202-1AA05 8WH8 202-2AA05 8WH8 202-3AA05 8WH8 202-4AA05 8WH8 202-5AA05 8WH8 202-6AA05 8WH8 202-7AA05 		<ul style="list-style-type: none"> 100 100 100 100 100 100 100 	<ul style="list-style-type: none"> 1200 units 960 units 800 units 560 units 480 units 400 units 320 units 	<ul style="list-style-type: none"> 044 044 044 044 044 044 044
		8WH8 203-1AA05		100	1200 units	044
Labels, flat, for labeling 8WH terminal blocks using the ALPHA FIX PRINT printer						
Versions						
<ul style="list-style-type: none"> • 4.2 mm wide • 5.2 mm wide • 6.2 mm wide • 8.2 mm wide • 10.2 mm wide • 12.2 mm wide • 16.2 mm wide 		<ul style="list-style-type: none"> 8WH8 203-1AA05 8WH8 203-2AA05 8WH8 203-3AA05 8WH8 203-4AA05 8WH8 203-5AA05 8WH8 203-6AA05 8WH8 203-7AA05 		<ul style="list-style-type: none"> 100 100 100 100 100 100 100 	<ul style="list-style-type: none"> 1200 units 960 units 800 units 560 units 480 units 400 units 320 units 	<ul style="list-style-type: none"> 044 044 044 044 044 044 044

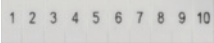
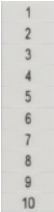

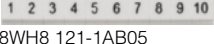

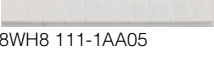
Accessories for plotter labeling system

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
		8WH8 112-1AA05 8WH8 112-2AA05 8WH8 112-4AA05		100	1024 units	044
Labels, for plotter system						
Versions						
<ul style="list-style-type: none"> • Front <ul style="list-style-type: none"> - For terminal width 4.2 mm - For terminal width 5.2 and 6.2 mm - For terminal width 8.2, 10, 12 and 16 mm • Flat <ul style="list-style-type: none"> - For terminal width 4.2, 5.2, 6.2, 8.2 and 10 mm - For terminal width 12 and 16 mm 				<ul style="list-style-type: none"> 100 100 100 100 	<ul style="list-style-type: none"> 1024 units 1400 units 1000 units 2000 units 	<ul style="list-style-type: none"> 044 044 044 044
Note		The labels can only be printed using the plotter, or they can be written by hand.				
		8WH8 113-1AA05 8WH8 113-6AA05		100	1080 units	044

Adapters for 8WA labels

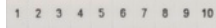
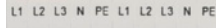


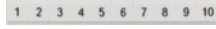


Version	DT	Order No.	Price per PU	PE	PS*/P. unit	PG
 		8WH9 060-4AA00		100	100 units	044
Adapters, for inscription of 8WA labels 5 × 20 units						
						
Note		The labels can only be printed using the plotter, or they can be written by hand.				
		8WH9 060-4AA00		100	100 units	044

Selection and ordering data

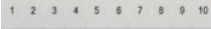

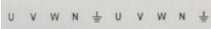


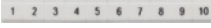


Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
 8WH8 120-1AB05 Labels, front, for terminal width 4.2 mm and terminal size 1.5 mm² (excl. 8WH3), horizontal inscription Versions • Incremental numbering - 1 ... 10 (10x) - 11 ... 20 (10x) - 21 ... 30 (10x) - 31 ... 40 (10x) - 41 ... 50 (10x) - 51 ... 60 (10x) - 61 ... 70 (10x) - 71 ... 80 (10x) - 81 ... 90 (10x) - 91 ... 100 (10x) • Custom inscription		8WH8 120-1A□□□ ▲▲▲ B05 B15 B25 B35 B45 B55 B65 B75 B85 C05 8WH8 120-1XA05		100	100 units	044
 8WH8 140-1AB05 Labels, front, for terminal width 4.2 mm and terminal size 1.5 mm² (excl. 8WH3), vertical inscription Versions • Incremental numbering - 1 ... 10 (10x) - 11 ... 20 (10x) - 21 ... 30 (10x) - 31 ... 40 (10x) • Custom inscription		8WH8 140-1A□□□ ▲▲▲ B05 B15 B25 B35 8WH8 140-1XA05		100	100 units	044
 8WH8 110-1AA05 Labels, front, for terminal width 4.2 mm and terminal size 1.5 mm² (excl. 8WH3), blank		8WH8 110-1AA05		100	100 units	044
 8WH8 121-1AB05 Labels, flat, for terminal width 4.2 mm and terminal size 1.5 mm² (excl. 8WH3), horizontal inscription Versions • Incremental numbering - 1 ... 10 (10x) - 11 ... 20 (10x) - 21 ... 30 (10x) - 31 ... 40 (10x) - 41 ... 50 (10x) - 51 ... 60 (10x) - 61 ... 70 (10x) - 71 ... 80 (10x) - 81 ... 90 (10x) - 91 ... 100 (10x) • Custom inscription		8WH8 121-1A□□□ ▲▲▲ B05 B15 B25 B35 B45 B55 B65 B75 B85 C05 8WH8 121-1XA05		100	100 units	044
 8WH8 141-1AB05 Labels, flat, for terminal width 4.2 mm and terminal size 1.5 mm² (excl. 8WH3), vertical inscription Versions • Incremental numbering - 1 ... 10 (10x) - 11 ... 20 (10x) - 21 ... 30 (10x) - 31 ... 40 (10x) - 41 ... 50 (10x) - 51 ... 60 (10x) - 61 ... 70 (10x) - 71 ... 80 (10x) - 81 ... 90 (10x) - 91 ... 100 (10x) • Custom inscription		8WH8 141-1A□□□ ▲▲▲ B05 B15 B25 B35 B45 B55 B65 B75 B85 C05 8WH8 141-1XA05		100	100 units	044
 8WH8 111-1AA05 Labels, flat, for terminal width 4.2 mm and terminal size 1.5 mm² (excluding 8WH3), blank		8WH8 111-1AA05		100	100 units	044

Accessories for 8WH Terminal Blocks

Standard labeling system


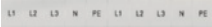


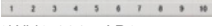
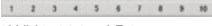



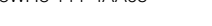
Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
 <p>Labels, front, for terminal width 5.2 mm and terminal size 2.5 mm² (8WH3: 1.5 mm²), horizontal inscription</p> <p>8WH8 120-2AB05</p> <p>Versions</p> <ul style="list-style-type: none"> • Incremental numbering 						
 <p>8WH8 120-2AA15</p> <ul style="list-style-type: none"> - 1 ... 10 (10x) - 11 ... 20 (10x) - 21 ... 30 (10x) - 31 ... 40 (10x) - 41 ... 50 (10x) - 51 ... 60 (10x) - 61 ... 70 (10x) - 71 ... 80 (10x) - 81 ... 90 (10x) - 91 ... 100 (10x) • L1/L2/L3/N/PE • Custom inscription 		8WH8 120-2A□□□ ▲▲▲ B05 B15 B25 B35 B45 B55 B65 B75 B85 C05 A15		100 100 units	044	
 <p>8WH8 140-2AB05</p> <p>Labels, front, for terminal width 5.2 mm and terminal size 2.5 mm² (8WH3: 1.5 mm²), vertical inscription</p> <p>Versions</p> <ul style="list-style-type: none"> • Incremental numbering 						
<ul style="list-style-type: none"> - 1 ... 10 (10x) - 11 ... 20 (10x) - 21 ... 30 (10x) - 31 ... 40 (10x) - 41 ... 50 (10x) - 51 ... 60 (10x) - 61 ... 70 (10x) - 71 ... 80 (10x) - 81 ... 90 (10x) - 91 ... 100 (10x) • Custom inscription 		8WH8 140-2A□□□ ▲▲▲ B05 B15 B25 B35 B45 B55 B65 B75 B85 C05		100 100 units	044	
 <p>8WH8 110-2AA05</p> <p>Labels, front, for terminal width 5.2 mm and terminal size 2.5 mm² (8WH3: 1.5 mm²), blank</p>		8WH8 110-2AA05		100 100 units	044	
 <p>8WH8 121-2AB15</p> <p>Labels, flat, for terminal width 5.2 mm and terminal size 2.5 mm² (8WH3: 1.5 mm²), horizontal inscription</p> <p>Versions</p> <ul style="list-style-type: none"> • Incremental numbering 						
<ul style="list-style-type: none"> - 1 ... 10 (10x) - 11 ... 20 (10x) - 21 ... 30 (10x) - 31 ... 40 (10x) - 41 ... 50 (10x) - 51 ... 60 (10x) - 61 ... 70 (10x) - 71 ... 80 (10x) - 81 ... 90 (10x) - 91 ... 100 (10x) • Custom inscription 		8WH8 121-2A□□□ ▲▲▲ B05 B15 B25 B35 B45 B55 B65 B75 B85 C05		100 100 units	044	
 <p>8WH8 141-2AB15</p> <p>Labels, flat, for terminal width 5.2 mm and terminal size 2.5 mm² (8WH3: 1.5 mm²), vertical inscription</p> <p>Versions</p> <ul style="list-style-type: none"> • Incremental numbering 						
<ul style="list-style-type: none"> - 1 ... 10 (10x) - 11 ... 20 (10x) - 21 ... 30 (10x) - 31 ... 40 (10x) - 41 ... 50 (10x) - 51 ... 60 (10x) - 61 ... 70 (10x) - 71 ... 80 (10x) - 81 ... 90 (10x) - 91 ... 100 (10x) • Custom inscription 		8WH8 141-2A□□□ ▲▲▲ B05 B15 B25 B35 B45 B55 B65 B75 B85 C05		100 100 units	044	
 <p>8WH8 111-2AA05</p> <p>Labels, flat, for terminal width 5.2 mm and terminal size 2.5 mm² (8WH3: 1.5 mm²), blank</p>		8WH8 111-2AA05		100 100 units	044	

Standard labeling system

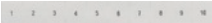
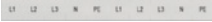

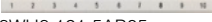

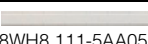
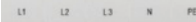
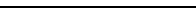


Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
 <p>Labels, front, for terminal width 6.2 mm and terminal size 4 mm² (8WH3: 2.5 mm²), horizontal inscription</p> <p>8WH8 120-3AB05</p> <p>Versions</p> <ul style="list-style-type: none"> • Incremental numbering <ul style="list-style-type: none"> - 1 ... 10 (10x) - 11 ... 20 (10x) - 21 ... 30 (10x) - 31 ... 40 (10x) - 41 ... 50 (10x) - 51 ... 60 (10x) - 61 ... 70 (10x) - 71 ... 80 (10x) - 81 ... 90 (10x) - 91 ... 100 (10x) • L1/L2/L3/N/PE • U/V/W/N/grounding • Custom inscription 		8WH8 120-3A□□□ ▲▲▲ B05 B15 B25 B35 B45 B55 B65 B75 B85 C05 A15 A25		100	100 units	044
 <p>8WH8 120-3AA15</p>						
 <p>8WH8 120-3AA25</p>						
 <p>8WH8 140-3AB05</p> <p>Labels, front, for terminal width 6.2 mm and terminal size 4 mm² (8WH3: 2.5 mm²), vertical inscription</p> <p>Versions</p> <ul style="list-style-type: none"> • Incremental numbering <ul style="list-style-type: none"> - 1 ... 10 (10x) - 11 ... 20 (10x) - 21 ... 30 (10x) - 31 ... 40 (10x) - 41 ... 50 (10x) - 51 ... 60 (10x) - 61 ... 70 (10x) - 71 ... 80 (10x) - 81 ... 90 (10x) - 91 ... 100 (10x) • Custom inscription 		8WH8 140-3A□□□ ▲▲▲ B05 B15 B25 B35 B45 B55 B65 B75 B85 C05		100	100 units	044
		8WH8 140-3XA05		100	100 units	044
 <p>8WH8 110-3AA05</p> <p>Labels, front, for terminal width 6.2 mm and terminal size 4 mm² (8WH3: 2.5 mm²), blank</p>		8WH8 110-3AA05		100	100 units	044
 <p>8WH8 121-3AB05</p> <p>Labels, flat, for terminal width 6.2 mm and terminal size 4 mm² (8WH3: 2.5 mm²), horizontal inscription</p> <p>Versions</p> <ul style="list-style-type: none"> • Incremental numbering <ul style="list-style-type: none"> - 1 ... 10 (10x) - 11 ... 20 (10x) - 21 ... 30 (10x) - 31 ... 40 (10x) - 41 ... 50 (10x) - 51 ... 60 (10x) - 61 ... 70 (10x) - 71 ... 80 (10x) - 81 ... 90 (10x) - 91 ... 100 (10x) • Custom inscription 		8WH8 121-3A□□□ ▲▲▲ B05 B15 B25 B35 B45 B55 B65 B75 B85 C05		100	100 units	044
		8WH8 121-3XA05		100	100 units	044
 <p>8WH8 141-3AB05</p> <p>Labels, flat, for terminal width 6.2 mm and terminal size 4 mm² (8WH3: 2.5 mm²), vertical inscription</p> <p>Versions</p> <ul style="list-style-type: none"> • Incremental numbering <ul style="list-style-type: none"> - 1 ... 10 (10x) • Custom inscription 		8WH8 141-3AB05 8WH8 141-3XA05		100	100 units	044
				100	100 units	044
 <p>8WH8 111-3AA05</p> <p>Labels, flat, for terminal width 6.2 mm and terminal size 4 mm² (8WH3: 2.5 mm²), blank</p>		8WH8 111-3AA05		100	100 units	044

Accessories for 8WH Terminal Blocks

Standard labeling system

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
 <p>Labels, front, for terminal width 8.2 mm and terminal size 6 mm², horizontal inscription</p> <p>8WH8 120-4AB05</p> <p>Versions</p> <ul style="list-style-type: none"> • Incremental numbering <ul style="list-style-type: none"> - 1 ... 10 (10x) - 11 ... 20 (10x) - 21 ... 30 (10x) - 31 ... 40 (10x) - 41 ... 50 (10x) - 51 ... 60 (10x) - 61 ... 70 (10x) - 71 ... 80 (10x) - 81 ... 90 (10x) - 91 ... 100 (10x) • L1/L2/L3/N/PE • Custom inscription 		8WH8 120-4A□□□ ▲▲▲ B05 B15 B25 B35 B45 B55 B65 B75 B85 C05 A15		100	100 units	044
 <p>8WH8 120-4AA15</p>		8WH8 120-4XA05		100	100 units	044
 <p>Labels, front, for terminal width 8.2 mm and terminal size 6 mm², vertical inscription</p> <p>8WH8 140-4AB05</p> <p>Versions</p> <ul style="list-style-type: none"> • Incremental numbering <ul style="list-style-type: none"> - 1 ... 10 (10x) - 11 ... 20 (10x) - 21 ... 30 (10x) • Custom inscription 		8WH8 140-4A□□□ ▲▲▲ B05 B15 B25		100	100 units	044
 <p>8WH8 140-4AA05</p>		8WH8 140-4XA05		100	100 units	044
 <p>Labels, front, for terminal width 8.2 mm and terminal size 6 mm², blank</p> <p>8WH8 110-4AA05</p>		8WH8 110-4AA05		100	100 units	044
 <p>Labels, flat, for terminal width 8.2 mm and terminal size 6 mm², horizontal inscription</p> <p>8WH8 121-4AB05</p> <p>Versions</p> <ul style="list-style-type: none"> • Incremental numbering <ul style="list-style-type: none"> - 1 ... 10 (10x) - 11 ... 20 (10x) - 21 ... 30 (10x) • Custom inscription 		8WH8 121-4A□□□ ▲▲▲ B05 B15 B25		100	100 units	044
 <p>8WH8 121-4AA05</p>		8WH8 121-4XA05		100	100 units	044
 <p>Labels, flat, for terminal width 8.2 mm and terminal size 6 mm², vertical inscription</p> <p>8WH8 141-4AB05</p> <p>Versions</p> <ul style="list-style-type: none"> • Incremental numbering <ul style="list-style-type: none"> - 1 ... 10 (10x) - 11 ... 20 (10x) - 21 ... 30 (10x) • Custom inscription 		8WH8 141-4A□□□ ▲▲▲ B05 B15 B25		100	100 units	044
 <p>8WH8 141-4AA05</p>		8WH8 141-4XA05		100	100 units	044
 <p>Labels, flat, for terminal width 8.2 mm and terminal size 6 mm², blank</p> <p>8WH8 111-4AA05</p>		8WH8 111-4AA05		100	100 units	044






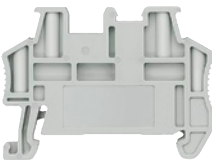
Standard labeling system

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
 Labels, front, for terminal width 10 and 12 mm and terminal sizes 10 and 16 mm², horizontal inscription 8WH8 120-5AB05 Versions <ul style="list-style-type: none"> • Incremental numbering <ul style="list-style-type: none"> - 1 ... 10 (10x) - 11 ... 20 (10x) - 21 ... 30 (10x) - 31 ... 40 (10x) • L1/L2/L3/N/PE • U/V/W/N/grounding • Custom inscription 		8WH8 120-5A□□□ ▲▲▲ B05 B15 B25 B35 A15 A25 8WH8 120-5XA05		100	100 units	044
 Labels, front, for terminal width 10 and 12 mm and terminal sizes 10 and 16 mm², vertical inscription 8WH8 120-5AA15 Versions <ul style="list-style-type: none"> • Incremental numbering <ul style="list-style-type: none"> - 1 ... 10 (10x) - 11 ... 20 (10x) - 21 ... 30 (10x) - 31 ... 40 (10x) • L1/L2/L3/N/PE • U/V/W/N/grounding • Custom inscription 		8WH8 140-5A□□□ ▲▲▲ B05 B15 B25 B35 8WH8 140-5XA05		100	100 units	044
 Labels, front, for terminal width 10 and 12 mm and terminal sizes 10 and 16 mm², blank 8WH8 140-5AB05 Versions <ul style="list-style-type: none"> • Incremental numbering <ul style="list-style-type: none"> - 1 ... 10 (10x) - 11 ... 20 (10x) - 21 ... 30 (10x) - 31 ... 40 (10x) • Custom inscription 		8WH8 110-5AA05 8WH8 140-5XA05		100	100 units	044
 Labels, front, for terminal width 10 and 12 mm and terminal sizes 10 and 16 mm², horizontal inscription 8WH8 110-5AA05 Versions <ul style="list-style-type: none"> • Incremental numbering <ul style="list-style-type: none"> - 1 ... 10 (10x) - 11 ... 20 (10x) - 21 ... 30 (10x) • Custom inscription 		8WH8 121-5A□□□ ▲▲▲ B05 B15 B25 8WH8 121-5XA05		100	100 units	044
 Labels, flat, for terminal width 10 and 12 mm and terminal sizes 10 and 16 mm², vertical inscription 8WH8 121-5AB05 Versions <ul style="list-style-type: none"> • Incremental numbering <ul style="list-style-type: none"> - 1 ... 10 (10x) • Custom inscription 		8WH8 141-5AB05 8WH8 141-5XA05		100	100 units	044
 Labels, flat, for terminal width 10 and 12 mm and terminal sizes 10 and 16 mm², blank 8WH8 141-5AB05 Versions <ul style="list-style-type: none"> • Incremental numbering <ul style="list-style-type: none"> - 1 ... 10 (10x) • Custom inscription 		8WH8 111-5AA05 8WH8 141-5XA05		100	100 units	044
 Labels, front, for terminal width 16 mm and terminal size 35 mm², horizontal inscription 8WH8 111-5AA05 Versions <ul style="list-style-type: none"> • L1/L2/L3/N/PE • Custom inscription 		8WH8 120-7AA15 8WH8 120-7XA05 8WH8 140-7XA05		100	100 units	044
 Labels, front, for terminal width 16 mm and terminal size 35 mm², vertical inscription, custom inscription 8WH8 120-7AA15 Versions <ul style="list-style-type: none"> • L1/L2/L3/N/PE • Custom inscription 		8WH8 110-7AA05 8WH8 111-7AA05		100	100 units	044
 Labels, front, for terminal width 16 mm and terminal size 35 mm², blank 8WH8 110-7AA05 Versions <ul style="list-style-type: none"> • L1/L2/L3/N/PE • Custom inscription 		8WH8 110-7AA05 8WH8 111-7AA05		100	100 units	044
 Labels, flat, for terminal width 16 mm and terminal size 35 mm², blank 8WH8 110-7AA05 Versions <ul style="list-style-type: none"> • L1/L2/L3/N/PE • Custom inscription 		8WH8 110-7AA05 8WH8 111-7AA05		100	100 units	044

Accessories for 8WH Terminal Blocks

Mounting accessories

Selection and ordering data

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
 <p>Modular test plugs For individual assembly of test plug connectors</p> <p>Versions</p> <ul style="list-style-type: none"> • For terminal width 4.2 mm and terminal size 1.5 mm² ¹⁾ • For terminal width 5.2 mm and terminal size 2.5 mm² ¹⁾ • For terminal width 6.2 mm and terminal size 6 mm² ¹⁾ <p>¹⁾ excluding 8WH3</p>		<p>8WH9 010-0DB02</p> <p>8WH9 010-0EB02</p> <p>8WH9 010-0FB02</p>		<p>1</p> <p>1</p> <p>1</p>	<p>10 units</p> <p>10 units</p> <p>10 units</p>	<p>044</p> <p>044</p> <p>044</p>
<p>8WH9 010-0DB02</p>						
 <p>Spacer plates For leaving out single terminals for individual test plug assembly</p> <p>Versions</p> <ul style="list-style-type: none"> • For terminal width 4.2 mm and terminal size 1.5 mm² ¹⁾ • For terminal width 5.2 mm and terminal size 2.5 mm² ¹⁾ • For terminal width 6.2 mm and terminal size 6 mm² ¹⁾ <p>¹⁾ excl. 8WH3</p>		<p>8WH9 010-2AA02</p> <p>8WH9 010-2BA02</p> <p>8WH9 010-2CA02</p>		<p>1</p> <p>1</p> <p>1</p>	<p>10 units</p> <p>10 units</p> <p>10 units</p>	<p>044</p> <p>044</p> <p>044</p>
<p>8WH9 010-2AA02</p>						
 <p>Terminal strip markers, for end retainers</p> <ul style="list-style-type: none"> • Height-adjustable • For quick-fit end retainers • Facility for inscription with terminal strip marker or two labels, front, for terminal width 10.2 mm • Labeling field size: 20 x 8 mm 		8WH9 150-1CA00		1	100 units	044
<p>8WH9 150-1CA00</p>						
 <p>Test adapters</p> <ul style="list-style-type: none"> • For 4 mm Ø PS test plugs and 4 mm Ø safety test plugs • Makes contact in the bridge shaft 		8WH9 010-0JB00		1	10 units	044
<p>8WH9 010-0JB00</p>						
 <p>Reducing combs</p> <p>Versions</p> <ul style="list-style-type: none"> • For bridging of a through-type terminal, terminal size 2.5 or 4 mm² <ul style="list-style-type: none"> - for a through-type terminal, terminal size 1.5 mm² - for a through-type terminal, terminal size 6 mm² - for a through-type terminal, terminal size 10 mm² - for a through-type terminal, terminal size 16 mm² - for a through-type terminal, terminal size 35 mm² • For bridging of a through-type terminal, terminal size 16 mm² <ul style="list-style-type: none"> - for a through-type terminal, terminal size 35 mm² <p>Note</p> <p>Not for 8WH1 through-type terminals and 8WH3 insulation displacement terminals.</p>		<p>8WH9 020-0CC10</p> <p>8WH9 020-0FC10</p> <p>8WH9 020-0AC10</p> <p>8WH9 020-0BC10</p> <p>8WH9 020-0EC10</p> <p>8WH9 020-0DC10</p>		<p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p>	<p>10 units</p> <p>10 units</p> <p>10 units</p> <p>10 units</p> <p>10 units</p> <p>10 units</p>	<p>044</p> <p>044</p> <p>044</p> <p>044</p> <p>044</p> <p>044</p>
<p>8WH9 020-0FC10</p>						
 <p>Quick-fit end retainers Facility for inscription with labels, front, for terminal width 5.2 mm and terminal strip marker</p>		8WH9 150-0CA00		1	50 units	044
<p>8WH9 150-0CA00</p>						

Mounting accessories

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
Screwdrivers						
For opening spring-loaded terminals						
Versions						
<ul style="list-style-type: none"> • 0.4 × 2.5 mm • 0.6 × 3.5 mm • 0.8 × 4.0 mm • 1.0 × 5.5 mm 		8WH9 200-0AA00 8WH9 200-0AB00 8WH9 200-0AC00 8WH9 200-0AD00		1 1 1 1	10 units 10 units 10 units 10 units	044 044 044 044
Connecting combs						
Versions		Max. load current I_{max}				
<ul style="list-style-type: none"> • For terminal width 4.2 mm and terminal size 1.5 mm² (excl. 8WH3) <ul style="list-style-type: none"> - 2-pole - 3-pole - 4-pole - 5-pole - 10-pole - 20-pole 		17.5 A	8WH9 020-6AC10 8WH9 020-6AD10 8WH9 020-6AE10 8WH9 020-6AF10 8WH9 020-6AL10 8WH9 020-6AS10	1 1 1 1 1 1	50 units 50 units 50 units 50 units 10 units 10 units	044 044 044 044 044 044
<ul style="list-style-type: none"> • For terminal width 5.2 mm and terminal size 2.5 mm² (for 8WH3: 1.5mm²) <ul style="list-style-type: none"> - 2-pole - 3-pole - 4-pole - 5-pole - 10-pole - 20-pole - 50-pole 		24 A	8WH9 020-6BC10 8WH9 020-6BD10 8WH9 020-6BE10 8WH9 020-6BF10 8WH9 020-6BL10 8WH9 020-6BS10 8WH9 020-6BT10	1 1 1 1 1 1 1	50 units 50 units 50 units 50 units 10 units 10 units 10 units	044 044 044 044 044 044 044
<ul style="list-style-type: none"> • For terminal width 6.2 mm and terminal size 4 mm² (for 8WH3: 2.5mm²) <ul style="list-style-type: none"> - 2-pole - 3-pole - 4-pole - 5-pole - 10-pole - 20-pole - 50-pole 		32 A	8WH9 020-6CC10 8WH9 020-6CD10 8WH9 020-6CE10 8WH9 020-6CF10 8WH9 020-6CL10 8WH9 020-6CS10 8WH9 020-6CT10	1 1 1 1 1 1 1	50 units 50 units 50 units 50 units 10 units 10 units 10 units	044 044 044 044 044 044 044
<ul style="list-style-type: none"> • For terminal width 8.2 mm and terminal size 6 mm² <ul style="list-style-type: none"> - 2-pole - 3-pole - 4-pole - 5-pole - 10-pole 		41 A	8WH9 020-6DC10 8WH9 020-6DD10 8WH9 020-6DE10 8WH9 020-6DF10 8WH9 020-6DL10	1 1 1 1 1	10 units 10 units 10 units 10 units 10 units	044 044 044 044 044
<ul style="list-style-type: none"> • For terminal width 10 mm and terminal size 10 mm², 2-pole, 		57 A	8WH9 020-6EC10	1	10 units	044
<ul style="list-style-type: none"> • For terminal width 12 mm and terminal size 16 mm², 2-pole 		76 A	8WH9 020-6FC10	1	10 units	044
<ul style="list-style-type: none"> • For terminal width 16 mm, terminal size 35 mm², 2-pole 		101 A	8WH9 020-6GC10	1	10 units	044









8WH9 200-0AA00



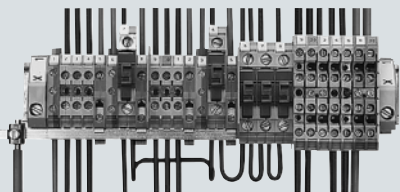
8WH9 020-6AC10

Accessories for 8WH Terminal Blocks

Mounting accessories

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
Plug-in zone connectors, for isolating terminals						
Versions						
 8WH9 040-0DB04		8WH9 040-0DB04		1	50 units	044
 8WH9 020-8AB00		8WH9 020-8AB00		1	50 units	044
 8WH9 040-3AB08		8WH9 040-3AB08 8WH9 040-3BB08 8WH9 040-3CB08 8WH9 040-3DB08		1	10 units	044
<ul style="list-style-type: none"> Isolating plugs <ul style="list-style-type: none"> - Orange Through-type connectors <ul style="list-style-type: none"> - Gray - I_{max}: 16 A Fused connectors <ul style="list-style-type: none"> - Black - I_{max}: 6.3 A - Facility for labeling with labels, flat, for terminal width 6.2 mm - G fuses 5 x 20 mm Versions <ul style="list-style-type: none"> - With LED display for 12 to 30 V, 1 ... 2.5 mA - With LED display for 30 to 60 V, 0.8 ... 2.0 mA - With LED display for 110 to 250 V, 0.5 ... 2.5 mA - Without LED display Note <ul style="list-style-type: none"> • The G fuse holders must be selected according to the maximum power loss (heat dissipation) of the G fuse links. Depending on the application and method of installation, the heat rise conditions in closed fuse holders must be tested. • Higher ambient temperatures represent an additional load for the fuse links. A shift in rated current should therefore be taken into account in such applications 						
 8WH9 040-0BB00		8WH9 040-0BB00		1	10 units	044
Feeder terminals, for N-busbars						
<ul style="list-style-type: none"> • 6 x 6 mm and 10 x 3 mm • Bare Versions <ul style="list-style-type: none"> • Rated uninterrupted current 32 A, for connection of up to 4 mm² • Rated uninterrupted current 76 A, for connection of up to 25 mm² • Rated uninterrupted current 125 A, for connection of up to 35 mm² 						
 8WA2 867/8WA2 868/ 8WA2 870		8WA2 867 8WA2 868 8WA2 870		1	50 units	041
 8WA2 842		8WA2 842		1	1 unit	041
N-busbars, 10 mm x 3 mm <ul style="list-style-type: none"> • Made of copper, tin-plated • 1000 mm long 						

8WA1 Screw Terminals



9/2	Introduction
9/3	General data on 8WA
9/9	8WA through-type terminals¹⁾
9/15	8WA N-conductor isolating and branch terminals
9/17	8WA Insta or three-tier terminals
9/19	8WA two-tier terminals
9/21	8WA two-tier terminals with electronic components
9/23	8WA diode and isolating terminals
9/24	8WA terminals for components
9/25	8WA fuse terminals
9/26	8WA through-type terminals with soldered and plug-in connection
9/27	8WA measuring transformer terminals
9/32	8WA transformer terminals

¹⁾ Also available as a PE version

More technical product information:

Service&Support Portal:
www.siemens.com/lowvoltage/technical-support




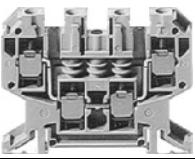
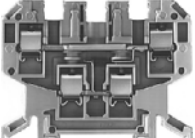
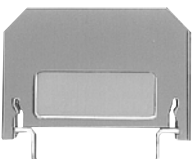


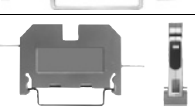

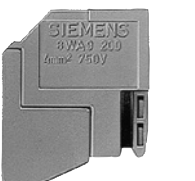
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 Technical specifications

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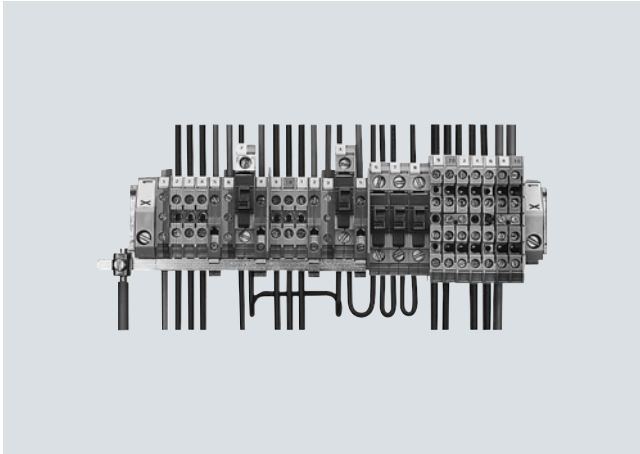
8WA1 Screw Terminals

Introduction

Overview

	Devices	Page	Function
	8WA through-type terminals	9/9	Connection of incoming and outgoing conductors up to 70 mm ²
	8WA N-conductor isolating and branch terminals	9/15	N-conductor isolating terminals connected to N-busbar 6 mm x 6 mm
	8WA Insta or three-tier terminals	9/17	These terminals have up to three terminal functions in a single enclosure and may also have an N-isolating terminal connection to an N-busbar 6 mm x 6 mm. They are optimized for distribution board applications in installation technology
	8WA two-tier terminals	9/19	Compact design of the terminal blocks, in which two connecting wires can be installed
	8WA two-tier terminals with electronic components	9/21	Terminal blocks with integrated diodes
	8WA diode and isolating terminals	9/23	Terminal blocks with integrated diodes or isolation for testing purposes
	8WA terminals for components	9/24	Terminals that enable installation of components in the circuit
	8WA fuse terminals	9/25	Terminals which can be used to protect control circuits, for example
	8WA through-type terminals with soldered and plug-in connection	9/26	Terminals with connection for soldered or plug-in connection
	8WA measuring transformer terminals	9/27	Measuring transformer terminals can be used for testing and isolating circuits in switchboards, control rooms, etc. without interrupting operation
	8WA transformer terminals	9/32	Optimized terminals for transformers and rectifiers

Overview



Terminal strips with different terminal blocks: 8WA1 011-1DG11 terminal blocks, 8WA1 011-1NG31 N-conductor isolating terminals with feeder terminal for N-busbar 6 × 6 mm, 8WA1 011-1PG00 PE terminals, 8WA1 011-1SF12 fuse terminals, and various two-tier terminals. The EN 50022-35-compliant standard mounting rail serves as the PE bar.

Terminal blocks are used for the space-saving connection of incoming and outgoing cables in switchboards and distribution boards.

Standards

EN 60664-1,
EN 60999 and
IEC 60947-7-1 or
IEC 60947-7-2.

The terminals are finger-safe acc. to IEC 60529 and DIN EN 50274 (except for bare terminals and solder connections). Through-type terminals are resistant to earthquakes according to IEC 60068-2-6.

Rated short-time withstand current

Our screw terminals are able to withstand a rated short-time current corresponding to a current density of 120 A/mm^2 specific to the nominal cross-section for a duration of one second.

Colored terminal blocks

With colored wiring according to EN 60204-1, the connecting level can also be included in the colored markings:

- Red for control circuits with AC current
- Blue for control circuits with DC current or neutral conductor
- Orange for interlock circuits with AC or DC current which are fed from outside and are live when the main switch is turned off
- Green-yellow through-type terminals for protective conductors (without connection to the support rail).

Design

The terminal blocks are insulated at both ends, with the exception of two-tier, flat and bolt-type terminals, which are insulated on one side only.

The insulating material for terminal sizes up to 70 mm^2 is made of thermoplast, polyamide 6.6.

The materials used are environment-friendly: For example, they are cadmium-free and contain no halogens or silicone.

The plastics used are flame-retardant and self-extinguishing according to EN 60695-2-2, VDE 0471, Part 2-2 and UL 94 V-2.

Clamping methods

The terminals are designed so that when the terminal screws are tightened, any tensile stress which occurs causes elastic deformation of the terminal bodies. This compensates for any creepage of the clamping conductor. Deformation of the thread part prevents loosening of the clamping screw, even in the event of heavy mechanical and thermal strain (e. g. vibration stress of 10 g or thermal cycles).

The following clamping methods are used: terminal body with pressure plate for terminal sizes 16, 35 and 70 mm^2 . Strain-relief clamps for terminal sizes 2.5, 4 and 6 mm^2 . Screw with connection disk for fuse terminals and component terminals.

Terminal size

The terminal size corresponds to the nominal cross-section. According to EN 60947-7-1, a finely stranded copper conductor of nominal cross-section can be connected to any clamping point with or without end sleeve.

Mounting

The terminals are snapped onto 35 mm support rails according to IEC 60715 TH35 and secured against movement using end retainers.

A lateral mounting tolerance of 0.2 mm must be maintained between the terminals.

Conductor connection

Except for flat and bolt-type versions, all terminal bodies are designed so that solid, stranded and finely stranded conductors with or without end sleeves (according to DIN 46228) can be securely clamped (please observe cross-section).

Damage to the clamped conductors is prevented by pressure plates or strain-relief clamps. For the conductor cross-sections when 1 or 2 conductors are connected, see technical specifications.

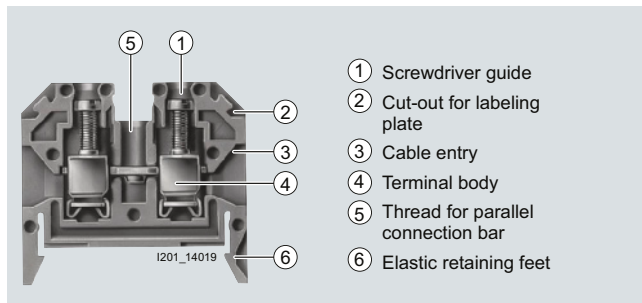
8WA1 Screw Terminals

General data on 8WA

Connection of aluminum conductors

Siemens screw terminals are suitable for connecting aluminum conductors provided there is compliance with the normal processing guidelines, i.e. the brushing and greasing of the conductors before connection.

After a few days, the connection should be tightened again for safety reasons.



8WA1 through-type terminal with screw terminal at both ends, sectional view

PE and PEN terminals

In switchgear and controlgear systems the support rails for the terminal blocks are frequently used as protective ground busbars. The PE terminals establish the connection to the support rail.

The fact that there is no separate PE busbar means the PE terminals, the insulated main conductor terminals and N-conductor isolating terminals can be arranged according to user requirements. This makes the individual circuits clearly manageable.

The bare 8WA1 010-1PH01 PE terminals are primarily used for connecting the shields of shielded cables. They are normally mounted on a standard mounting rail, which is supported by an 8WA1 857 insulation carrier and which is equipped with only one PE terminal for connection to the PE conductor.

Accessories

Parallel connection bars

The connection bars are screwed into the terminals from above and allow parallel connection of up to 10 terminals up to terminal size 35 mm². The 10-pole connection bars can be shortened as required. On 70 mm² terminals the connection bars are two-pole.

Barriers

Barriers are yellow in color and project beyond the contours of the terminals. They serve the visual separation of groups of terminals, the electrical isolation of adjacent connection bars and the improvement of the rated insulation voltage for soldered and plug-in connections.

Insulation plates

8WA1 825 and 8WA1 822-7TK00 insulation plates can be used with different terminals for providing electrical insulation between connection bars.

Test sockets and plugs

The 8WA1 854 test sockets for Ø 2.3 test plugs and reduction plugs with a Ø 4 mm hole can be screwed into some terminals in place of the connection bars.

Disconnecting links

The 8WA1 865 disconnecting links provide a detachable connection between two adjacent terminals sizes 2.5 to 6 mm².

Covers with lightning symbol

The purpose of these covers is to identify the power input terminals. At the same time, they provide additional touch protection.

End retainers and end labeling plates

End retainers are available in thermoplastic or galvanized and chromated steel. The end labeling plate can be fitted in an 8WA1 808 end retainer or, in any of three positions, in an 8WA1 805 end retainer.

Technical specifications

Continuous load at increased ambient temperatures

The 8WA1 terminal blocks can withstand an uninterrupted current at ambient temperatures of up to +55 °C. At higher ambient temperatures, a current reduction according to the following formula is required:

$$I_{th2'} = I_{th2} \cdot k$$

I_{th2} = Uninterrupted current according to selection tables, relative to the nominal cross-section

$I_{th2'}$ = Uninterrupted current at increased ambient temperature

k = Derating factor according to table

Ambient temperature	Derating factor k
60 °C	0.94
65 °C	0.88
70 °C	0.82
75 °C	0.75
80 °C	0.67
85 °C	0.58
90 °C	0.47
95 °C	0.33

The highest permissible clamping point overtemperature of 45 K specified in IEC 60947-7-1 is not exceeded at an ambient temperature of up to 100 °C.

Clamping points

Terminal size	Type ¹⁾	Thread diameter of terminal screws	Screwdriver blades acc. to DIN 5264 Form B	Tightening torque = test torque acc. to DIN VDE 0609 and DIN VDE 0611 Nm	Tensile forces acc. to IEC 60947-1 at max. conductor connection N	Stripped length mm
1.5	8WA1 011-.SF., 8WA1 011-1EE00	M3.5	0.8 × 4	0.8	40	10
2.5	8WA1 . . 1, 8WA1 011-1BF11, 8WA1 011-1EF . . 8WA1 011-. . F . .	M2.5 and M3	0.5 × 3	0.5	50	11
		M2.5	0.8 × 4	0.5	50	11
4	8WA1 011-. . G . . 8WA2 867	M3 M3.5	0.8 × 4	0.5 0.8 ... 1	60	11
6	8WA1 . . 2, 8WA1 011-. . H . .	M3.5	0.8 × 4	0.8	80	11
16	8WA1 . . 4, 8WA1 011-. . K . .	M4	0.8 × 4	1.2	100	13
25	8WA2 868	M5	1.2 × 6.5	2	135	
35	8WA1 . . 5, 8WA1 011-. . M . . 8WA2 870	M6	1.2 × 6.5	2.5	190	17
				2.5 ... 3		
50	8WH1 000-0AN00, 8WH1 000-0AN01, 8WH1 000-0CN07 8WH1 070-0AN00	M6	1.2 × 8	6 ... 8	--	24
		M6	--	3 ... 7	--	6 ... 25
70	8WA1 . . 6	M8	4 hexagon socket-head	6	285	25
95	8WA1 010-1PQ00, 8WH1 000-0AQ00, 8WH1 000-0AQ01 8WH1 000-0CQ07 8WH1 070-0AQ00 8WH1 060-0AQ00	M8	6 hexagon socket-head	15 ... 20	--	30
		M8	6 hexagon socket-head	15 ... 20	--	33
		M8	6 hexagon socket-head	15 ... 20	--	30
		M8	--	6 ... 15	--	16 ... 25
		M8	--	25 ... 30	--	29
150	8WH1 000-0AS0, 8WH1 070-0AS00 8WH1 060-0AS00	M10	8 hexagon socket-head	25 ... 30	--	40
		M10	--	10 ... 18	--	10 ... 18
		M10	--	25 ... 30	--	34
240	8WH1 000-0AU0, 8WH1 060-0AU00	M10	10 hexagon socket-head	30 ... 35	--	40
		M10	--	30 ... 35	--	34

¹⁾ Tightening torque also applicable for accessories (socket, connection bars, etc.).

Standard mounting rails as PEN rails

Only use Cu busbars.

They must have the same current carrying capacity as protective conductor busbars.

PEN busbars must carry only terminals and no devices.

Standard mounting rails as protective conductor busbars

Protective conductors with a larger cross-section than the protective conductor busbar, and with the same conductivity, can be connected to standard mounting rails that are also protective conductor busbars and carry current only under fault conditions.

Standard mounting rail acc. to EN 50022-35 and IEC 60715 TH35	Material	Type	Max. permissible cross-section of connected protective conductor mm ²
35 × 7.5	Steel	5ST1 141	16
	Steel, perforated	5ST1 145	16
Similar to 35 × 15	Steel	5ST1 142	35
	Steel	--	50
	Copper	8WA7 551	150 ¹⁾

¹⁾ With 8WA1 010-1PQ00 terminal connection of up to 95 mm² finely stranded or 120 mm² stranded.

8WA1 Screw Terminals

General data on 8WA

Rated impulse withstand voltage of terminal blocks

Values dependent on the mains rated voltage
 ≤ rated insulation voltage of terminal block; excerpt from
 EN 60947-1, table H.1.

Terminal blocks are tested acc. to overvoltage category III.

Rated mains voltage (≤ rated insulating voltage of the device) RMS value V AC	Maximum rated operating voltage to ground RMS value V AC or V DC	Preferred values for rated impulse withstand voltage as 1.2/50 μs pulse Overvoltage category			
		I kV	II kV	III kV	IV kV
--	50	330	500	800	1500
66/115	100	500	800	1500	2500
120/208 127/220	150	800	1500	2500	4000
230/400 277/480	300	1500	2500	4000	6000
400/690	600	2500	4000	6000	8000
1000	1000	4000	6000	8000	12000

Connection

Terminal size mm ²	Type	Smallest conductor cross-section					Largest conductor cross-section				
		Solid mm ²	Stranded mm ²	Finely stranded mm ²	Finely stranded with end sleeve ¹⁾		Solid mm ²	Stranded mm ²	Finely stranded mm ²	Finely stranded with end sleeve ¹⁾	
		mm ²	mm ²	mm ²	mm ²	Size	mm ²	mm ²	mm ²	mm ²	Size
Single-conductor connection											
1.5	8WA1 011-SF . . . 8WA1 011-1EE00	1	--	--	0.75	0.75 ... 10	2.5	--	--	1.5	1.5 ... 10
2.5	8WA1 211, 8WA1 011-. .F. .	0.25 ²⁾	0.5	0.5	0.5	0.5 ... 10	4	2.5	2.5	2.5	2.5 ... 12 ⁴⁾
	8WA1 011-3JF . .	0.25 ²⁾	0.5	0.5	0.5	0.5 ... 10	4	2.5	2.5	2.5	2.5 ... 7
	8WA1 501, 8WA1 511, 8WA1 011-1EF. .	0.25 ²⁾	0.5	0.5	0.5	0.5 ... 10	4	2.5	2.5	2.5	1.5 ... 10
4	8WA9 200	0.5	1.5	1.5	0.75	0.75 ... 10	6	4	4	4	4
	8WA2 86. feeder terminal	1	1.5	1.5	0.75	0.75 ... 10	6	4	4	4	4 ... 12 ⁴⁾
	8WA1 011-. .G. .	0.5	1.5	0.5	0.75	0.75 ... 10	6	4	4	4	4 ... 12 ⁴⁾
6	8WA1 011-1.H. .	0.75	1.5	1.5	0.5	0.5 ... 10	10	6	6	6	6 ... 12
	8WA1 010-1PH01	0.5	1.5	1.5	0.5	0.5 ... 10	10	6	6	6	6 ... 15
16	8WA1 204, 8WA1 304, 8WA1 011-1BK11	1.5	2.5	2.5	1	1 ... 10 ³⁾	16	25	16	16	16 ... 12
	8WA1 604, 8WA1 011-1NK02	1.5	2.5	4	1.5	1 ... 10 ³⁾	16	25	16	16	16 ... 12
	8WA1 011-1PK00	1.5	2.5	4	1.5	1.5 ... 7 ⁶⁾	16	25	16	16	16 ... 15
	8WA2 86. feeder terminal	1.5	2.5	4	2.5	2.5 ... 12	16	16	10	10	10 ... 12
25	8WH1 060-0AL00	--	--	4	4	--	--	25	25	--	
35	8WA1 205, 8WA1 305, 8WA1 011-1BM11	4	10	6	6	6 ... 15	16 ⁵⁾	50	35	35	35 ... 18 ⁷⁾
	8WA1 011-1PM00	4	10	10	6	6 ... 15	16 ⁵⁾	50	35	25	25 ... 15
	8JH4 114 feeder terminal	6	10	16	6	6 ... 15	16	35	25	25	25 ... 15
	8WA2 870	6	10	16	6	6 ... 15	16	35	25	25	25 ... 15
50	8WH1 000-0AN00	--	--	10	10	--	--	--	50	50	--
	8WH1 000-0AN01	--	--	10	10	--	--	--	50	50	--
	8WH1 000-0CN07	--	--	25	25	--	--	--	50	50	--
	8WH1 070-0AN00	--	--	6 ¹⁾	--	--	--	--	--	35 ¹⁾	--
	8WH1 060-0AN00	--	--	25	25	--	--	--	50	50	--
70	8WA1 206	10	16	16	16	16 ... 12 ⁶⁾	95	95	95	--	--
95	8WA1 010-1PQ00	--	50	50	--	--	--	95	95	--	--
	8WH1 000-0AQ00	--	--	35	35	--	--	--	95	95	--
	8WH1 000-0AQ01	--	--	35	35	--	--	--	95	95	--
	8WH1 000-0CQ07	--	--	35	35	--	--	--	35	95	--
	8WH1 070-0AQ00	--	--	--	16 ¹⁾	--	--	--	--	35 ¹⁾	--
	8WH1 060-0AQ00	--	--	35	35	--	--	--	95	95	--
	150	8WH1 000-0AS00, 8WH1 000-0AS01	--	--	50	50	--	--	--	150	150
8WH1 060-0AS00	--	--	50	50	--	--	--	150	150	--	
240	8WA1 011-1DU. .	--	--	--	--	--	--	240	240	--	--
	8WH1 000-0AU00, 8WH1 000-0AU01	--	--	70	70	--	--	--	185	185	--
	8WH1 060-0AU00	--	--	--	--	--	--	--	--	--	--

¹⁾ End sleeves acc. to DIN 46228 Sheet 1 without insulation. Size corresponds to sleeve nominal size.

²⁾ 0.12/0.25 mm² corresponds to Ø 0.4/0.6 mm.


³⁾ For 0.75 mm² conductors, use end sleeves 1-10 and press on with insert E1 or PZ 1.5.

⁴⁾ At voltages > 500 V, shorten end sleeves with inserted conductor to 10 mm before pressing on.

⁵⁾ Tested up to 16 mm².

⁶⁾ Fit and press on two end sleeves one after the other (up to stop).

⁷⁾ Voltage reduction to 630 V required.

Terminal size mm ²	Type	Smallest conductor cross-section					Largest conductor cross-section				
		Solid mm ²	Stranded mm ²	Finely stranded mm ²	Finely stranded with end sleeve ¹⁾ mm ² Size		Solid mm ²	Stranded mm ²	Finely stranded mm ²	Finely stranded with end sleeve ¹⁾ mm ² Size	
Two-wire connection , 2 conductors each of same cross-section; with end sleeves the two rectangular sleeves must be inserted in the same position. 											
1.5	8WA1 011-. SF . ., -1EE00	2 × 1	--	--	2 × 0.75	1 ... 10 ³⁾	2 × 2.5	--	--	2 × 1.5	1.5 ... 10
2.5	8WA1 211, 8WA1 011-. F . .	2 × 0.12 ²⁾	2 × 0.5	2 × 0.5	2 × 0.5 ⁹⁾	0.75 ... 6	2 × 0.75	2 × 0.5	2 × 0.5	2 × 1.5 ⁹⁾	1.5 ... 10
	8WA1 501, 8WA1 511, 8WA1 011-1EF . .	2 × 0.12 ²⁾	2 × 0.5	2 × 0.25	--	--	2 × 0.75	2 × 0.5	2 × 0.75	--	--
4	8WA1 011-. G . ., -1DG11	2 × 0.5	2 × 1	2 × 1	2 × 0.5	0.5 × 10	2 × 1.5	2 × 1.5	2 × 1.5	2 × 1.5	1.5 ... 10
	8WA1 011-2DG11	2 × 0.5	2 × 1	2 × 1	2 × 0.5	0.5 × 10	2 × 1	2 × 1.5	2 × 1.5	2 × 1	1 ... 10
	8WA1 011-6DG11, top	2 × 0.5	2 × 1	2 × 1	2 × 0.5	0.5 × 10	2 × 1.5	2 × 1.5	2 × 1.5	2 × 1	1 ... 10
	8WA1 011-6DG11, bottom	2 × 0.5	2 × 1	2 × 1	2 × 0.5	0.5 × 10	2 × 1	2 × 1.5	2 × 1.5	2 × 1	1 ... 10
	8WA1 011-1PG00	2 × 0.5	2 × 1	2 × 1	2 × 0.5	0.5 × 10	2 × 1	2 × 1.5	2 × 1.5	2 × 1	1 ... 10
6	8WA1 011-1 . H . ., -3DH21	2 × 0.5	2 × 0.75	2 × 0.75	2 × 0.5	0.5 × 10	2 × 1.5	2 × 1.5	2 × 1.5	2 × 1.5	1.5 ... 10
	8WA1 010-1PH01	2 × 0.5	2 × 0.75	2 × 0.75	2 × 0.5	0.5 × 10	2 × 1.5	2 × 1.5	2 × 1.5	2 × 0.75	1 ... 10
16	8WA1 204, 8WA1 304, 8WA1 604, 8WA1 011-1BK11	2 × 1	2 × 2.5	2 × 2.5	2 × 1	1 ... 10	2 × 4	2 × 4	2 × 4	2 × 4	4 ... 12
	8WA1 734	2 × 2.5	--	--	2 × 1.5	1.5 ... 7 ⁶⁾	2 × 4	2 × 4	2 × 4	2 × 4	4 ... 12
35	8WA1 205, 8WA1 305, 8WA1 011-1BM11, 8WA1 735	2 × 4	2 × 10	2 × 6	2 × 6	6 ... 15	2 × 10	2 × 10	2 × 10	2 × 10	10 ... 15
50	8WH1 000-0AN00, 8WH1 000-0AN01, 8WH1 000-0CN07	2 × 10	2 × 10	2 × 10	2 × 10	--	2 × 35	2 × 35	2 × 35	2 × 35	--
70	8WA1 206	2 × 10	2 × 10	2 × 10	2 × 10	10 ... 12 ⁶⁾	2 × 16	2 × 16	2 × 16	2 × 16	16 ... 12 ⁷⁾
95	8WH1 000-0AQ00, 8WH1 000-0AQ01, 8WH1 000-0CQ07	2 × 25	2 × 25	2 × 25	2 × 25	--	2 × 35	2 × 35	2 × 35	2 × 35	--
150	8WH1 000-0AS00, 8WH1 000-0AS01	2 × 25	2 × 25	2 × 25	2 × 25	--	2 × 50	2 × 50	2 × 50	2 × 50	--
240	8WH1 000-0AU00, 8WH1 000-0AU01	2 × 35	2 × 35	2 × 35	2 × 35	--	2 × 95	2 × 95	2 × 95	2 × 95	--

¹⁾ End sleeves acc. to DIN 46228 Sheet 1 without insulation. Size corresponds to sleeve nominal size.

²⁾ 0.12/0.25 mm² corresponds to Ø 0.4/0.6 mm.

³⁾ For 0.75 mm² conductors, use end sleeves 1-10 and press on with insert E1 or PZ 1.5.

⁴⁾ At voltages > 500 V, shorten end sleeves with inserted conductor to 10 mm before pressing on.

⁵⁾ Tested up to 16 mm².

⁶⁾ Fit and press on two end sleeves one after the other (up to stop).

⁷⁾ Voltage reduction to 630 V required.

Conductor cross-sections to AWG "American Wire Gauge"

AWG No.	Wire diameter mm	Cross-section mm ²	AWG No.	Wire diameter mm	Cross-section mm ²	AWG No.	Wire diameter mm	Cross-section mm ²
30	0.254	0.051	18	1.024	0.82	6	4.115	13.30
29	0.287	0.065	17	1.151	1.04	5	4.620	16.77
28	0.320	0.081	16	1.290	1.31	4	5.189	21.15
27	0.363	0.102	15	1.450	1.65	3	5.827	26.66
26	0.404	0.128	14	1.628	2.08	2	6.543	33.62
25	0.455	0.163	13	1.829	2.63	1	7.348	42.41
24	0.511	0.205	12	2.052	3.31	1/0	8.252	53.52
23	0.574	0.259	11	2.304	4.17	2/0	9.266	67.43
22	0.643	0.33	10	2.588	5.26	3/0	10.404	85.01
21	0.724	0.41	9	2.906	6.63	4/0	11.684	107.21
20	0.813	0.52	8	3.268	8.37	5/0	--	135.35
19	0.912	0.65	7	3.665	10.55	6/0	--	170.50

8WA1 Screw Terminals

General data on 8WA

® and ⚡ rating

Terminal size	Type	CSA rating AWG	Rated current		UR rating		Rated voltage	
			I_n A	I_n A	AWG	I_n A	U_e V	U_e V
1.5	8WA1 011-1SF12	18-14	6.3	600	18-14	6.3	600	
	8WA1 011-1SF24, -2SF24, -4SF24	14	1	--	14-12	1	AC240/DC60	
	8WA1 011-1SF25, -2SF25, -4SF25	14	2	--	14-12	2	AC240/DC60	
	8WA1 011-1SF26, -2SF26, -4SF26	14	4	--	14-12	4	AC240/DC60	
	8WA1 011-1SF27, -2SF27, -4SF27	14	6	--	14-12	6	AC240/DC60	
	8WA1 011-1SF28, -2SF28, -4SF28	14	10	--	14-12	10	AC240/DC60	
2.5	8WA1 011-1BF21, -1BF22, -1BF23, -1PF11	18-12	25	600	22-12	26	600	
	8WA1 011-1DF11, -3DF21, -0DF21, -0DF22	18-12	25	600	22-12	26	600	
	8WA1 011-1NF01, -1NF02	22-12	26	600	22-12	26	600	
	8WA1 011-3JF..	--	--	--	22-12	26	300	
	8WA1 011-1PF00, 8WA1 011-1PF01	22-12	--	--	22-12	--	--	
	8WA1 501	22-12	10	300 D	22-12	10	300	
4	8WA1 011-1PG00, 8WA1 011-1PG01	18-10	--	--	18-10	--	--	
	8WA1 011-1BG11, -1BG21, -1BG22	18-10	40	600	18-10	35	600	
	8WA1 011-1DG11, -3DG21, -0DG21, -0DG22	18-10	40	600	18-10	35	600	
	8WA1 011-1NG31, -1NG32	18-10	40	600	18-10	35	600	
	8WA1 011-1PG11	18-10	40	600	--	--	--	
	8WA1 011-2BG11, -2DG11	18-10	40	300	18-10	35	600	
	8WA1 011-6BG11, -6DG11	18-10	40	300	18-10	35	600	
	8WA1 011-6EG..	--	--	--	18-10	34	300	
	8WA9 200	18-10	25	300	18-10	26	600	
	6	8WA1 011-1PH00	--	--	--	14-8	--	--
8WA1 011-1BH23, -1PH11		16-10	35	600	14-8	44	600	
8WA1 011-1DH11, -3DH21		16-8	35	600	14-8	44	600	
8WA1 011-1NH01, -1NH02		14-8	44	600	14-8	44	600	
8WA1 011-1MH10, -1MH11, -1MH15		16-10	35/40	600/300 C/D	14-8	44	600/300	
8WA1 232		--	--	--	-- ¹⁾	24	600	
16	8WA1 011-1BK11	14-6	70	600	12-4	79	600	
	8WA1 011-1NK02	--	--	--	12-4	73	300	
	8WA1 011-1PK00	12-4	--	--	12-4	--	--	
	8WA1 012-1DK10	--	--	--	--	79	600	
	8WA1 204, 8WA1 304	14-6	70	600	12-4	79	600	
	8WA1 604	--	--	--	12-4	73	300	
25	8WH1 060-0AL00	6-4	100	600	6-4	85	600	
35	8WA1 011-1BM11	12-2	100	600	10-1	120	600	
	8WA1 011-1PM00	10-1	--	--	10-1	--	--	
	8WA1 205, 8WA1 305	12-2	100	600	10-1	120	600	
50	8WH1 000-0AN00, 8WH1 000-0AN01	6-0	125	600	6-0	150	600	
	8WH1 000-0CN07	--	--	--	6-1	--	--	
	8WH1 060-0AN00	6-0	125	600	6-0	150	600	
	8WA1 012-1DP14	2/0-1	170	600	6-3/0	--	600	
70	8WA1 206	8-1/0	150	600	8-3/0	220	600	
	8WH1 000-0AQ00, 8WH1 000-0AQ01	1-000	220	600	2-000	230	600	
95	8WH1 000-0CQ07	2-4	--	--	2-4	--	--	
	8WH1 060-0AQ00	2-000	200	600	2-000	230	600	
	8WH1 000-0AS0, 8WH1 000-0AS01	2 - 300 kcmil	275	600	2 - 300 kcmil	285	600	
150	8WH1 060-0AS00	2 - 300 kcmil	275	600	2 - 300 kcmil	285	600	
	8WH1 000-0AU00, 8WH1 000-0AU01	0 - 500 kcmil	400	600	0 - 500 kcmil	380	600	
240	8WH1 000-0AU00	0 - 500 kcmil	400	600	0 - 500 kcmil	380	600	








¹⁾ Plug-in connection

Selection and ordering data



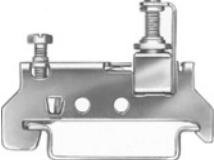

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
General details						
<ul style="list-style-type: none"> Thermoplastic insulating body Screw terminal at both ends Enclosed at both ends 						
Note	Section	Page				
For labeling accessories, see ...	Accessories	8/2				
Terminal size 2.5 mm²						
Through-type terminals, terminal size 2.5 mm²						
<ul style="list-style-type: none"> Rated uninterrupted current 24 A Rated insulation voltage 800 V Mounting width 6 mm Terminal height 26 mm Terminal length 41 mm AWG 22-12 AWG 18-12 						
Versions						
<ul style="list-style-type: none"> Single terminals <ul style="list-style-type: none"> Beige Blue Red Orange Yellow Black Green Terminal blocks <ul style="list-style-type: none"> Beige, 3-pole, width 18 mm Beige, 10-pole, width 61 mm, with designation 1 ... 10 Beige, 10-pole, width 61 mm, without inscription 						
Accessories						
<ul style="list-style-type: none"> Covers <ul style="list-style-type: none"> With lightning symbol, for terminal size 1.5 to 2.5 mm² Accessories 9/13 White, facility for inscription, for terminal size 1.5 to 2.5 mm² Accessories 9/13 For connection bars <ul style="list-style-type: none"> Transparent, for terminal size 2.5 to 6 mm² Accessories 9/13 White, facility for inscription, for terminal size 2.5 to 6 mm² Accessories 9/13 Jumpers, for terminal size 2.5 mm² Accessories 9/13 Test sockets Accessories 9/14 Disconnecting links Accessories 9/14 						
Note						
Between terminals with terminal sizes 2.5 and 6 mm ² , two 8WH1 820 barriers are required.						
<ul style="list-style-type: none"> Insulation plates, for terminal size 2.5 to 6 mm² Accessories 9/14 Connection bars, for terminal size 2.5 mm² <ul style="list-style-type: none"> For two terminals Accessories 9/14 For three terminals Accessories 9/14 For four terminals Accessories 9/14 For ten terminals Accessories 9/14 Barriers, for terminal size 1.5 to 4 mm² Accessories 9/14 						
PE through-type terminals, terminal size 2.5 mm²						
<ul style="list-style-type: none"> Green/yellow Mounting width 6 mm Terminal height 26 mm Terminal length 51 mm 						
Versions						
<ul style="list-style-type: none"> One screw terminal Two screw terminals 						
Accessories						
Barriers, for terminal size 1.5 to 4 mm ² Accessories 9/14						
8WA1 011-1DF11		8WA1 011-1DF11		1	100 units	041
		8WA1 011-1BF23		1	50 units	041
		8WA1 011-1BF21		1	50 units	041
		8WA1 011-1BF22		1	50 units	041
		8WA1 011-1BF26		1	50 units	041
		8WA1 011-1BF24		1	50 units	041
		8WA1 011-1BF25		1	50 units	041
8WA1 011-3DF21		8WA1 011-3DF21		1	10 units	041
		8WA1 011-0DF22		1	20 units	041
		8WA1 011-0DF21		1	20 units	041
8WA1 011-0DF21		8WA1 810		1	50 units	041
		8WA1 860		1	50 units	041
		8WA1 822-7AX01		1	10 units	041
		8WA1 822-7AX03		1	10 units	041
		8WA1 822-7VF01		1	50 units	041
		8WA1 854		1	100 units	041
		8WA1 865		1	50 units	041
		8WA1 825		1	50 units	041
		8WA1 895		1	50 units	041
		8WA1 896		1	50 units	041
		8WA1 897		1	20 units	041
		8WA1 898		1	10/200 units	041
		8WA1 820		1	50 units	041
8WA1 011-1PF01		8WA1 011-1PF01		1	50 units	041
		8WA1 011-1PF00		1	50 units	041
		8WA1 820		1	50 units	041

8WA1 Screw Terminals

8WA through-type terminals






Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG																														
Terminal size 4 mm²																																				
 <p>8WA1 011-1DG11</p>	Through-type terminals, terminal size 4 mm² <ul style="list-style-type: none"> • Rated uninterrupted current 32 A • Rated insulation voltage 800 V • Mounting width 6.5 mm • Terminal height 30 mm • Terminal length 41 mm •  AWG 18-10 •  AWG 18-10 																																			
	Versions <ul style="list-style-type: none"> • Single terminals <ul style="list-style-type: none"> - Beige - Blue - Red - Orange - Black • Terminal blocks <ul style="list-style-type: none"> - Beige, 3-pole, width 19.5 mm - Beige, 10-pole, width 65.5 mm, labeled 1 ... 10 - Beige, 10-pole, width 65.5 mm, without inscription 																																			
 <p>8WA1 011-0DG21</p>	Accessories <table border="1"> <thead> <tr> <th></th> <th>Section</th> <th>Page</th> </tr> </thead> <tbody> <tr> <td colspan="3">Covers</td> </tr> <tr> <td>- With lightning symbol, for terminal size 4 and 6 mm²</td> <td>Accessories</td> <td>9/13</td> </tr> <tr> <td>- White, facility for inscription, for terminal size 4 and 6 mm²</td> <td>Accessories</td> <td>9/13</td> </tr> <tr> <td>- For connection bars <ul style="list-style-type: none"> ◦ Transparent, for terminal size 2.5 to 6 mm² ◦ White, facility for inscription, for terminal size 2.5 to 6 mm² </td> <td>Accessories</td> <td>9/13</td> </tr> <tr> <td>◦ White, facility for inscription, for terminal size 2.5 to 6 mm²</td> <td>Accessories</td> <td>9/13</td> </tr> <tr> <td>• Jumpers, for terminal size 4 mm²</td> <td>Accessories</td> <td>9/13</td> </tr> <tr> <td>• Terminal strips</td> <td>Accessories</td> <td>9/14</td> </tr> <tr> <td>• Test sockets</td> <td>Accessories</td> <td>9/14</td> </tr> <tr> <td>• Disconnecting links</td> <td>Accessories</td> <td>9/14</td> </tr> </tbody> </table>			Section	Page	Covers			- With lightning symbol, for terminal size 4 and 6 mm ²	Accessories	9/13	- White, facility for inscription, for terminal size 4 and 6 mm ²	Accessories	9/13	- For connection bars <ul style="list-style-type: none"> ◦ Transparent, for terminal size 2.5 to 6 mm² ◦ White, facility for inscription, for terminal size 2.5 to 6 mm² 	Accessories	9/13	◦ White, facility for inscription, for terminal size 2.5 to 6 mm ²	Accessories	9/13	• Jumpers, for terminal size 4 mm ²	Accessories	9/13	• Terminal strips	Accessories	9/14	• Test sockets	Accessories	9/14	• Disconnecting links	Accessories	9/14				
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<ul style="list-style-type: none"> • Insulation plates, for terminal size 2.5 to 6 mm² • Connection bars, for terminal size 4 mm² <ul style="list-style-type: none"> - For two terminals - For three terminals - For four terminals - For ten terminals • Barriers, for terminal size 1.5 to 4 mm² 																																				
PE through-type terminals, terminal size 4 mm² <ul style="list-style-type: none"> • Green/yellow • Mounting width 7.2 mm • Terminal height 30 mm • Terminal length 51 mm •   																																				
 <p>8WA1 011-1PG01</p>	Versions <ul style="list-style-type: none"> • One screw terminal • Two screw terminals 																																			
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8WA through-type terminals










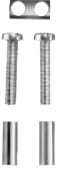

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG																																																																																
Terminal size 6 mm²																																																																																						
 8WA1 011-1DH11	Through-type terminals, terminal size 6 mm² <ul style="list-style-type: none"> Rated uninterrupted current 41 A Rated insulation voltage 800 V Mounting width 8 mm Terminal height 33 mm Terminal length 41 mm AWG 14-8 AWG 16-8 																																																																																					
	Versions <ul style="list-style-type: none"> Single terminals <ul style="list-style-type: none"> Beige Blue Black Terminal blocks <ul style="list-style-type: none"> Beige, 3-pole, width 24.5 mm 																																																																																					
 8WA1 011-3DH21	Accessories <table border="1"> <thead> <tr> <th></th> <th>Section</th> <th>Page</th> </tr> </thead> <tbody> <tr> <td colspan="3">Covers</td> </tr> <tr> <td>- With lightning symbol, for terminal size 4 to 6 mm²</td> <td>Accessories</td> <td>9/13</td> </tr> <tr> <td>- White, facility for inscription, for terminal size 4 and 6 mm²</td> <td>Accessories</td> <td>9/13</td> </tr> <tr> <td>- For connection bars, transparent, for terminal size 2.5 to 6 mm²</td> <td>Accessories</td> <td>9/13</td> </tr> <tr> <td>• Jumpers, for terminal size 6 mm²</td> <td>Accessories</td> <td>9/13</td> </tr> <tr> <td>• Test sockets</td> <td>Accessories</td> <td>9/14</td> </tr> <tr> <td>• Disconnecting links</td> <td>Accessories</td> <td>9/14</td> </tr> </tbody> </table>			Section	Page	Covers			- With lightning symbol, for terminal size 4 to 6 mm ²	Accessories	9/13	- White, facility for inscription, for terminal size 4 and 6 mm ²	Accessories	9/13	- For connection bars, transparent, for terminal size 2.5 to 6 mm ²	Accessories	9/13	• Jumpers, for terminal size 6 mm ²	Accessories	9/13	• Test sockets	Accessories	9/14	• Disconnecting links	Accessories	9/14																																																												
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<ul style="list-style-type: none"> Insulation plates, for terminal size 2.5 to 6 mm² Connection bars, for terminal size 6 mm² <ul style="list-style-type: none"> For two terminals For three terminals For four terminals For ten terminals Barriers, for terminal size 6 and 16 mm² 																																																																																						
PE through-type terminals, terminal size 6 mm², one screw terminal <ul style="list-style-type: none"> Bare Mounting width 6 mm Terminal height 25 mm Terminal length 44 mm Also for use as shield terminal 																																																																																						
 8WA1 010-1PH01	Accessories <table border="1"> <thead> <tr> <th></th> <th>Section</th> <th>Page</th> </tr> </thead> <tbody> <tr> <td>Barriers, for terminal size 6 and 16 mm²</td> <td>Accessories</td> <td>9/14</td> </tr> </tbody> </table>			Section	Page	Barriers, for terminal size 6 and 16 mm ²	Accessories	9/14																																																																														
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 8WA1 011-1PH00	Accessories <table border="1"> <thead> <tr> <th></th> <th>Section</th> <th>Page</th> </tr> </thead> <tbody> <tr> <td>Barriers, for terminal size 6 and 16 mm²</td> <td>Accessories</td> <td>9/14</td> </tr> </tbody> </table>			Section	Page	Barriers, for terminal size 6 and 16 mm ²	Accessories	9/14																																																																														
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8WA1 Screw Terminals

8WA through-type terminals

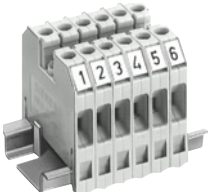






Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG																																			
Terminal size 16 mm²																																									
 8WA1 204	Through-type terminals, terminal size 16 mm² <ul style="list-style-type: none"> Rated uninterrupted current 76 A Rated insulation voltage 800 V Mounting width 10 mm Terminal height 38 mm Terminal length 41 mm AWG 12-4 AWG 14-6 																																								
	Versions <ul style="list-style-type: none"> Single terminals <ul style="list-style-type: none"> - Beige - Blue Terminal blocks <ul style="list-style-type: none"> - 3-pole, width 30 mm 																																								
 8WA1 304	Accessories																																								
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		8WA1 204 8WA1 011-1BK11 8WA1 304	1 1 1	20 units 10 units 20 units	041 041 041																																				
		8WA1 812 8WA1 892 8WA1 822-7AX02 8WA1 822-7TK00 8WA1 842 8WA1 845 8WA1 848 8WA1 802 8WA1 821	1 1 1 1 1 1 1 1 1	50 units 50 units 10 units 50 units 20 units 20 units 10 units 50 units	041 041 041 041 041 041 041 041																																				
 8WA1 011-1PK00	PE through-type terminals and through-type PEN terminals, terminal size 16 mm² <ul style="list-style-type: none"> Green/yellow for I = 76 A Mounting width 12 mm Terminal height 38 mm Terminal length 53 mm Two screw terminals AWG 																																								
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		8WA1 821	1	50 units	041																																				
Terminal size 35 mm²																																									
 8WA1 205	Through-type terminals, terminal size 35 mm² <ul style="list-style-type: none"> Rated uninterrupted current 125 A Rated insulation voltage 800 V Mounting width 16 mm Terminal height 50 mm Terminal length 53 mm AWG 10-1 AWG 12-2 																																								
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		8WA1 813 8WA1 893 8WA1 822-7AX02 8WA1 822-7TK00 8WA1 828 8WA1 803 8WA1 804 8WA1 823	1 1 1 1 1 1 1 1	50 units 50 units 10 units 50 units 20 units 20 units 10 units 25 units	041 041 041 041 041 041 041 041																																				

8WA through-type terminals

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	
 <p>PE through-type terminals and through-type PEN terminals, terminal size 35 mm²</p> <ul style="list-style-type: none"> • Green/yellow • for $I = 125$ A • Mounting width 16 mm • Terminal height 50 mm • Terminal length 53 mm • Two screw terminals •   <p>Accessories</p> <p><i>Barriers, for terminal size 35 mm²</i></p>		8WA1 011-1PM00		1	25 units	041	
			8WA1 823		1	25 units	041
Terminal size 70 mm²							
 <p>Through-type terminals, terminal size 70 mm²</p> <ul style="list-style-type: none"> • Rated uninterrupted current 192 A • Rated insulation voltage 800 V • Mounting width 25 mm • Terminal height 64.5 mm • Terminal length 73.5 mm •  AWG 8-3/0 •  AWG 8-1/0 <p>Versions</p> <ul style="list-style-type: none"> • Beige • Blue <p>Accessories</p> <p><i>Covers, with lightning symbol, for terminal size 70 mm²</i></p> <p><i>Connection bars, for terminal size 70 mm², for 2 terminals</i></p> <p><i>Barriers, for terminal size 70 mm²</i></p>		8WA1 206		1	10/60 units	041	
			8WA1 011-1BP11		1	10 units	041
		8WA1 814		1	50 units	041	
		8WA1 216		1	20 units	041	
		8WA1 824		1	25 units	041	
Accessories							
Covers							
Versions							
 <p>8WA1 810</p>				1	50 units	041	
			8WA1 811		1	50 units	041
		8WA1 812		1	50 units	041	
		8WA1 813		1	50 units	041	
		8WA1 814		1	50 units	041	
 <p>8WA1 860</p>				1	50 units	041	
			8WA1 862		1	50 units	041
		8WA1 892		1	50 units	041	
		8WA1 893		1	50 units	041	
 <p>8WA1 822-7AX01</p>				1	10 units	041	
			8WA1 822-7AX02		1	10 units	041
		8WA1 822-7AX03		1	10 units	041	
Jumpers							
For connection bars							
Versions							
 <p>8WA1 822-7VF01</p>				1	50 units	041	
			8WA1 822-7VG00		1	50 units	041
			8WA1 822-7VH00		1	50 units	041
 <p>8WA1 808</p>				1	50 units	041	
			8WA1 808		1	50 units	041

8WA1 Screw Terminals

8WA through-type terminals

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
 <p>Terminal strips</p> <ul style="list-style-type: none"> • 6-pole • Labeled 1 to 6 		8WA1 741-2X		1	5 units	041
<p>8WA1 741-2X</p>						
 <p>Test sockets</p> <ul style="list-style-type: none"> • Ø 2.3 mm • Up to 10 A • Terminal size 2.5 to 6 mm² 		8WA1 854		1	100 units	041
<p>8WA1 854</p>						
 <p>Test plugs</p> <ul style="list-style-type: none"> • For 8WA1 and 8WA2 terminals with 2.3 mm Ø hole or 8WA1 854, 8WA1 884 test sockets • Uninterrupted current 10 A <p>Versions</p> <ul style="list-style-type: none"> • Red • Blue 		8WA1 868 8WA1 870		1 1	10 units 10 units	041 041
<p>8WA1 868</p>						
 <p>Disconnecting links</p> <p>Up to 32 A</p> <p>Note</p> <p>Between terminals with terminal sizes 2.5 and 6 mm², two 8WH1 820 barriers are required.</p>		8WA1 865		1	50 units	041
<p>8WA1 865</p>						
 <p>Insulation plates</p> <p>Versions</p> <ul style="list-style-type: none"> • For terminal size 2.5 ... 6 mm² • For terminal sizes 16 and 35 mm² 		8WA1 825 8WA1 822-7TK00		1 1	50 units 50 units	041 041
<p>8WA1 825</p>						
 <p>Connection bars</p> <p>Versions</p> <ul style="list-style-type: none"> • For terminal size 2.5 mm² <ul style="list-style-type: none"> - For two terminals - For three terminals - For four terminals - For ten terminals • For terminal size 4 mm² <ul style="list-style-type: none"> - For two terminals - For three terminals - For four terminals - For ten terminals • For terminal size 6 mm² <ul style="list-style-type: none"> - For two terminals - For three terminals - For four terminals - For ten terminals • For terminal size 16 mm² <ul style="list-style-type: none"> - For two terminals - For three terminals - For four terminals - For ten terminals • For terminal size 35 mm² <ul style="list-style-type: none"> - For two terminals - For three terminals - For ten terminals • For terminal size 70 mm² <ul style="list-style-type: none"> - For two terminals 		8WA1 895 8WA1 896 8WA1 897 8WA1 898 8WA1 850 8WA1 851 8WA1 852 8WA1 853 8WA1 885 8WA1 886 8WA1 887 8WA1 888 8WA1 842 8WA1 845 8WA1 848 8WA1 802 8WA1 828 8WA1 803 8WA1 804 8WA1 216		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	50 units 50 units 20 units 10/200 units 50 units 50 units 20 units 10 units 50 units 50 units 20 units 10 units 20 units 20 units 10 units 10 units 20 units 20 units 10 units	041 041 041 041 041 041 041 041 041 041 041 041 041 041 041 041
<p>8WA1 895</p>						
 <p>Barriers</p> <p>Versions</p> <ul style="list-style-type: none"> • For terminal size 1.5 ... 4 mm² • For terminal sizes 6 and 16 mm² • For terminal size 35 mm² • For terminal size 70 mm² 		8WA1 820 8WA1 821 8WA1 823 8WA1 824		1 1 1 1	50 units 50 units 25 units 25 units	041 041 041 041
<p>8WA1 820</p>						

8WA N-conductor isolating and branch terminals

Overview

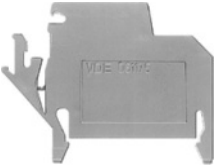




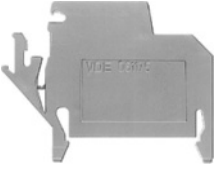


N-conductor isolating terminals permit an insulation test to be performed without disconnecting the neutral conductor according to DIN VDE 0108 and DIN VDE 0100 (Standards for the erection of power installations).

The branch terminals are used for the connection of lines (L), for example for power supplies, to the 6 mm x 6 mm busbar.

The rated voltage between two branch terminals (1 slide open) is 289 V.




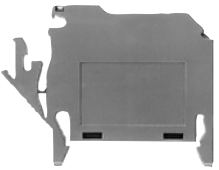





When they are used as shield terminals according to DIN VDE 0160, they provide isolation between the central reference point (shield connection conductor) and the PE conductor.

Selection and ordering data

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG															
General details <ul style="list-style-type: none"> • 1 screw terminal and connection to the neutral conductor bar or 6 mm x 6 mm busbar acc. to DIN 1761 • Insulating body made of blue or beige thermoplastic • Enclosed at both ends <table border="1"> <thead> <tr> <th>Note</th> <th>Section</th> <th>Page</th> </tr> </thead> <tbody> <tr> <td>For labeling accessories, see ...</td> <td>Accessories</td> <td>11/2</td> </tr> </tbody> </table>							Note	Section	Page	For labeling accessories, see ...	Accessories	11/2									
Note	Section	Page																			
For labeling accessories, see ...	Accessories	11/2																			
Terminal size 2.5 mm²																					
 8WA1 011-1NF01	N-conductor isolating terminal, terminal size 2.5 mm² <ul style="list-style-type: none"> • Blue • Rated uninterrupted current 24 A • Rated insulation voltage 500 V • Mounting width 6 mm • Terminal height 35 mm • Terminal length 55 mm • With built-in test socket in the fixed part of the terminal •  AWG 22-12 •  AWG 22-12 <table border="1"> <thead> <tr> <th>Accessories</th> <th>Section</th> <th>Page</th> </tr> </thead> <tbody> <tr> <td>• Covers, for connection bars</td> <td>Accessories</td> <td>9/16</td> </tr> <tr> <td>• N-busbars, 6 mm x 6 mm</td> <td>Accessories</td> <td>9/16</td> </tr> <tr> <td>• Label holders</td> <td>Accessories</td> <td>9/16</td> </tr> </tbody> </table>		Accessories	Section	Page	• Covers, for connection bars	Accessories	9/16	• N-busbars, 6 mm x 6 mm	Accessories	9/16	• Label holders	Accessories	9/16	8WA1 011-1NF01	1	50 units	041			
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	• N-busbars, 6 mm x 6 mm	Accessories	9/16																		
• Label holders	Accessories	9/16																			
		8WA1 822-7AX00	1	10 units	041																
		8GF9 324-2	1	10 units	042																
		3TX4 210-0J	100	100 units	41B																
Branch terminals, terminal size 2.5 mm² <ul style="list-style-type: none"> • Beige • Isolating distance 400 V • Mounting width 6 mm • Terminal height 35 mm • Terminal length 55 mm • With built-in test socket in the fixed part of the terminal • Isolating distance •  AWG 22-12 •  AWG 22-12 <table border="1"> <thead> <tr> <th>Accessories</th> <th>Section</th> <th>Page</th> </tr> </thead> <tbody> <tr> <td>• Covers, for connection bars</td> <td>Accessories</td> <td>9/16</td> </tr> <tr> <td>• N-busbars, 6 mm x 6 mm</td> <td>Accessories</td> <td>9/16</td> </tr> <tr> <td>• Label holders</td> <td>Accessories</td> <td>9/16</td> </tr> </tbody> </table>							Accessories	Section	Page	• Covers, for connection bars	Accessories	9/16	• N-busbars, 6 mm x 6 mm	Accessories	9/16	• Label holders	Accessories	9/16			
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• N-busbars, 6 mm x 6 mm	Accessories	9/16																			
• Label holders	Accessories	9/16																			
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		8WA1 822-7AX00	1	10 units	041																
		8GF9 324-2	1	10 units	042																
		3TX4 210-0J	100	100 units	41B																
Terminal size 4 mm²																					
 8WA1 011-1NG31	N-conductor isolating terminal, terminal size 4 mm² <ul style="list-style-type: none"> • Blue • Rated uninterrupted current 32 A • Rated insulation voltage 500 V • Mounting width 6.5 mm • Terminal height 35 mm • Terminal length 55 mm • With built-in test socket in the fixed part of the terminal •  AWG 18-10 •  AWG 18-10 <table border="1"> <thead> <tr> <th>Accessories</th> <th>Section</th> <th>Page</th> </tr> </thead> <tbody> <tr> <td>• Covers, for connection bars</td> <td>Accessories</td> <td>9/16</td> </tr> <tr> <td>• Feeder terminals, for N-busbars</td> <td>Accessories</td> <td>9/16</td> </tr> <tr> <td>• N-busbars, 6 mm x 6 mm</td> <td>Accessories</td> <td>9/16</td> </tr> <tr> <td>• Label holders</td> <td>Accessories</td> <td>9/16</td> </tr> </tbody> </table>		Accessories	Section	Page	• Covers, for connection bars	Accessories	9/16	• Feeder terminals, for N-busbars	Accessories	9/16	• N-busbars, 6 mm x 6 mm	Accessories	9/16	• Label holders	Accessories	9/16	8WA1 011-1NG31	1	50 units	041
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• Label holders	Accessories	9/16																			
		8WA1 822-7AX00	1	10 units	041																
		8WA2 867	1	50 units	041																
		8GF9 324-2	1	10 units	042																
		3TX4 210-0J	100	100 units	41B																

8WA1 Screw Terminals

8WA N-conductor isolating and branch terminals

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG															
Terminal size 6 mm²																					
 <p>8WA1 011-1NH01</p>	N-conductor isolating terminals, terminal size 6 mm² <ul style="list-style-type: none"> • Blue • Rated uninterrupted current 41 A • Rated insulation voltage 500 V • Mounting width 8 mm • Terminal height 35 mm • Terminal length 55 mm • With built-in test socket in the fixed part of the terminal •  AWG 14-8 •  AWG 14-8 		8WA1 011-1NH01		1	50 units 041															
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• Label holders	Accessories	9/16																			
		8GF9 324-2		1	10 units 042																
		3TX4 210-0J		100	100 units 41B																
Terminal size 16 mm²																					
 <p>8WA1 604</p>	N-conductor isolating terminals, terminal size 16 mm² <ul style="list-style-type: none"> • Blue • Rated uninterrupted current 76 A • Rated insulation voltage 500 V • Mounting width 10 mm • Terminal height 35 mm • Terminal length 55 mm •  AWG 12-4 		8WA1 604		1	50 units 041															
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		8GF9 324-2		1	10 units 042																
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Branch terminals, terminal size 16 mm²																					
<ul style="list-style-type: none"> • Beige • Isolating distance 400 V • Mounting width 10 mm • Isolating distance •  AWG 12-4 		8WA1 011-1NK02		1	50 units 041																
<table border="1"> <thead> <tr> <th>Accessories</th> <th>Section</th> <th>Page</th> </tr> </thead> <tbody> <tr> <td>• Covers, for connection bars</td> <td>Accessories</td> <td>9/16</td> </tr> <tr> <td>• N-busbars, 6 mm × 6 mm</td> <td>Accessories</td> <td>9/16</td> </tr> <tr> <td>• Label holders</td> <td>Accessories</td> <td>9/16</td> </tr> </tbody> </table>		Accessories	Section	Page	• Covers, for connection bars	Accessories	9/16	• N-busbars, 6 mm × 6 mm	Accessories	9/16	• Label holders	Accessories	9/16	8WA1 822-7AX00		1	10 units 041				
Accessories	Section	Page																			
• Covers, for connection bars	Accessories	9/16																			
• N-busbars, 6 mm × 6 mm	Accessories	9/16																			
• Label holders	Accessories	9/16																			
		8GF9 324-2		1	10 units 042																
		3TX4 210-0J		100	100 units 41B																
Accessories																					
 <p>8WA1 822-7AX00</p>	Covers, for connection bars <ul style="list-style-type: none"> • Not for 8WA1 604 and 8WA1 011-1NK02 • Length 155 mm 		8WA1 822-7AX00		1	10 units 041															
 <p>8WA2 870 / 868 / 867</p>	Feeder terminals, for N-busbars <ul style="list-style-type: none"> • 6 × 6 mm and 10 × 3 mm • Bare 		<table border="1"> <thead> <tr> <th>Versions</th> </tr> </thead> <tbody> <tr> <td> <ul style="list-style-type: none"> • Rated uninterrupted current 32 A, for connection of up to 4 mm² • Rated uninterrupted current 76 A, for connection of up to 25 mm² • Rated uninterrupted current 125 A, for connection of up to 35 mm² </td> </tr> </tbody> </table>		Versions	<ul style="list-style-type: none"> • Rated uninterrupted current 32 A, for connection of up to 4 mm² • Rated uninterrupted current 76 A, for connection of up to 25 mm² • Rated uninterrupted current 125 A, for connection of up to 35 mm² 	8WA2 867		1	50 units 041											
Versions																					
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				8WA2 868		1	50 units 041														
				8WA2 870		1	50 units 041														
 <p>8GF9 324-2</p>	N-busbars, 6 mm × 6 mm <ul style="list-style-type: none"> • Rated uninterrupted current 125 A • 1109 mm long • For four-field 		8GF9 324-2		1	10 units 042															
<table border="1"> <thead> <tr> <th>Note</th> </tr> </thead> <tbody> <tr> <td>Prices apply for orders from € 25.00. For orders below € 25.00, a processing charge of € 2.50 net will be added.</td> </tr> </tbody> </table>		Note	Prices apply for orders from € 25.00. For orders below € 25.00, a processing charge of € 2.50 net will be added.																		
Note																					
Prices apply for orders from € 25.00. For orders below € 25.00, a processing charge of € 2.50 net will be added.																					
Label holders		3TX4 210-0J		100	100 units 41B																

Overview

The Insta or three-tier terminals incorporate up to 3 different terminal functions in one insulating body of 6 mm width. The width of 3 Insta terminals corresponds to the modular width of 18 mm standardized in distribution board assembly. **Tools are required to remove the terminals from the support rail.**

All clamping points for incoming and outgoing cables have a cutout for an 8WA8 8.. label. The protective conductor connections are already marked green-yellow and the neutral conductor connections blue.

The N-busbar has the same position for Insta terminals and N-conductor isolating terminals. This allows, for example, the use of a 16 mm² N-conductor isolating terminal as an infeed for the N-busbar.

8WA1 011-3JF16, -3JF17 and -3JF18 allow the N-busbar to be routed with a mounting depth of 42.5 mm.

PE, L, NT Insta terminal

The 8WA1 011-3JF20 terminal is the basic version for AC circuits. It comprises:

- Protective conductor connection
- Through-type connection for one phase conductor
- Neutral conductor connection that can be isolated from the 6 mm × 6 mm N-busbar.

PE, L, N Insta terminals

If no neutral conductor isolation is required, the 8WA1 011-3JF17 terminal is used:

- Protective conductor connection
- Through-type connection for one phase conductor
- Through-type connection for the neutral conductor


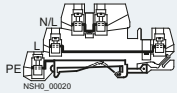
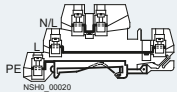
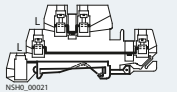
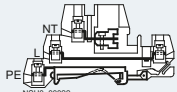
PE, L, L Insta terminal

Design of 8WA1 011-3JF16 terminal as previous version. Instead of the through-type connection for the neutral conductor, a through-type connection for a second phase conductor is fitted.

L, L Insta terminal





8WA1 011-3JF18 terminal contains two through-type connections for two phase conductors. These are generally used for three-phase outgoing lines.

Selection and ordering data

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
General details <ul style="list-style-type: none"> • Thermoplastic insulating body • Screw terminal at both ends • Enclosed at both ends • Neutral terminal, 6 mm × 6 mm neutral conductor connection 						
Note		Section	Page			
For labeling accessories, see ...		Accessories	11/2			
Terminal size 2.5 mm²						
 <p>8WA1 011-3JF16</p>						
Insta terminals, terminal size 2.5 mm² <ul style="list-style-type: none"> • Rated uninterrupted current 24 A • Rated insulation voltage <ul style="list-style-type: none"> - 400 V between phase conductors - 250 V between phase and protective conductors and for neutral isolating distance • Mounting width 6 mm • Terminal height 42.5 mm • Terminal length 87 mm • Screw terminals at both ends • AWG 22-12 						
Circuit diagram		Type				
		PE, L, L				
		PE, L, N				
		L, L				
		PE, L, NT				
Accessories		Section	Page			
Barriers, for Insta terminals, terminal size 2.5 mm and measuring transformer terminals, terminal size 6		Accessories	9/18			
		8WA1 011-3JF16		1	50 units	041
		8WA1 011-3JF17		1	50 units	041
		8WA1 011-3JF18		1	50 units	041
		8WA1 011-3JF20		1	50 units	041
		8WA1 822-7TH00		1	50 units	041

8WA1 Screw Terminals

8WA Insta or three-tier terminals

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
Accessories						
Covers Up to three terminals side-by-side						
Versions						
<ul style="list-style-type: none"> • With lightning symbol, for terminal size 4 and 6 mm² • White, facility for inscription, for terminal size 4 and 6 mm² • For connection bars, for terminal size 2.5 to 6 mm² <ul style="list-style-type: none"> - Transparent - White 		8WA1 811 8WA1 862		1 1	50 units 50 units	041 041
		8WA1 822-7AX01 8WA1 822-7AX03		1 1	10 units 10 units	041 041
Feeder terminals, for N-busbars						
<ul style="list-style-type: none"> • 6 mm × 6 mm and 10 mm × 3 mm • Bare 						
Versions						
<ul style="list-style-type: none"> • Connection up to 4 mm² • Connection up to 25 mm² • Connection up to 35 mm² 		8WA2 867 8WA2 868 8WA2 870		1 1 1	50 units 50 units 50 units	041 041 041
 8WA2 870 / 868 / 867						
End retainers, thermoplastic						
Width 10 mm						
 8WA1 808		8WA1 808		1	50 units	041
Device labels						
For end retainer, blank label						
		3TX4 210-0H		100	100 units	41B
Insulation carriers, for mounting insulated support rails						
 8WA1 857		8WA1 857		1	20 units	041
Blank labels						
For terminal marking						
		8WA8 848-2AY		100	100 units	041
N-busbars, 6 mm × 6 mm						
<ul style="list-style-type: none"> • Rated uninterrupted current 125 A • 1109 mm long • For four-field 						
Note						
Prices apply for orders from € 25.00. For orders below € 25.00, a processing charge of € 2.50 net will be added.						
 8GF9 324-2		8GF9 324-2		1	10 units	042
Connection bars, for Insta terminals						
Versions						
<ul style="list-style-type: none"> • For two terminals • For three terminals • For four terminals • For ten terminals 		8WA1 822-7VF02 8WA1 822-7VF03 8WA1 822-7VF04 8WA1 822-7VF10		1 1 1 1	50 units 50 units 20 units 10 units	041 041 041 041
Barriers, for Insta terminals, terminal size 2.5 mm² and measuring transformer terminals, terminal size 6 mm²						
		8WA1 822-7TH00		1	50 units	041

8WA two-tier terminals

Overview

Two-tier terminals are a compact form of the terminal blocks. They are therefore open on one side. They can contain two connecting cables with two connections each or they can be laid out as terminal blocks with four connections on the same potential.

An advantage is the standardized front for mounting, linking and labeling.

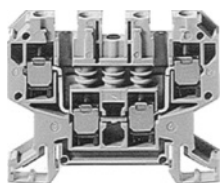
Technical specifications

	Rated voltage	
	AC	DC
Between connection bars		
• With insulation plate	400 V	450 V
• With end plate or barrier	800 V	900 V
• With disconnecting link opened	500 V	600 V
For alternately bent soldering tags	400 V	450 V
For adjacent terminals with soldering tags and insulated plugs	250 V	300 V

Selection and ordering data

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
General details						
<ul style="list-style-type: none"> Thermoplastic insulating body Screw terminal at both ends 						
Note	Section	Page				
For labeling accessories, see ...	Accessories	11/2				

Terminal size 4 mm²



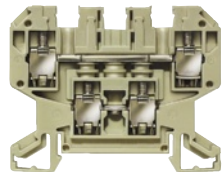
8WA1 011-6DG11

Two-tier terminals, terminal size 4 mm²

- Rated uninterrupted current 32 A
- Rated insulation voltage 690 V (with end plate 800 V)
- Mounting width 6.5 mm
- Terminal height 45 mm
- Terminal length 64 mm
- AWG 18-10
- AWG 18-10

Versions

- Beige
 - 1-pole
 - 2-pole, with two isolated connections
- Blue
 - 1-pole
 - 2-pole, with two isolated connections



8WA1 011-2DG11

Accessories





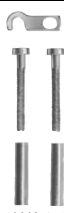


- Covers**
 - With lightning symbol, for terminal size 4 and 6 mm²
 - White, facility for inscription, for terminal size 4 and 6 mm²
 - For connection bars, for terminal size 2.5 to 6 mm², transparent
- Jumpers**
 - For upper tier of 2-pole terminals
 - For lower tier of 1 and 2-pole terminals
- Spacer sleeves**
- End plates**
- Test sockets**
 - For upper tier of 2-pole terminals
 - For lower tier of 1 and 2-pole terminals
- Disconnecting links**
- Insulation plates**
 - For upper tier of 2-pole terminals
 - For lower tier of 1 and 2-pole terminals
- Connection bars**
 - For upper tier of 2-pole terminals
 - For two terminals
 - For three terminals
 - For four terminals
 - For ten terminals
 - For lower tier of 1 and 2-pole terminals
 - For two terminals
 - For ten terminals
- Barriers**

8WA1 011-6DG11	1	50 units	041
8WA1 011-2DG11	1	50 units	041
8WA1 011-6BG11	1	50 units	041
8WA1 011-2BG11	1	50 units	041
8WA1 811	1	50 units	041
8WA1 862	1	50 units	041
8WA1 822-7AX01	1	10 units	041
8WA1 822-7VG00	1	50 units	041
8WA1 822-7VG01	1	50 units	041
8WA1 822-7VH11	1	100 units	041
8WA1 817	1	50 units	041
8WA1 854	1	100 units	041
8WA1 884	1	100 units	041
8WA1 865	1	50 units	041
8WA1 825	1	50 units	041
8WA1 825	1	50 units	041
8WA1 850	1	50 units	041
8WA1 851	1	50 units	041
8WA1 852	1	20 units	041
8WA1 853	1	10 units	041
8WA1 835	1	50 units	041
8WA1 838	1	10 units	041
8WA1 823	1	25 units	041

* You can order this quantity or a multiple thereof.

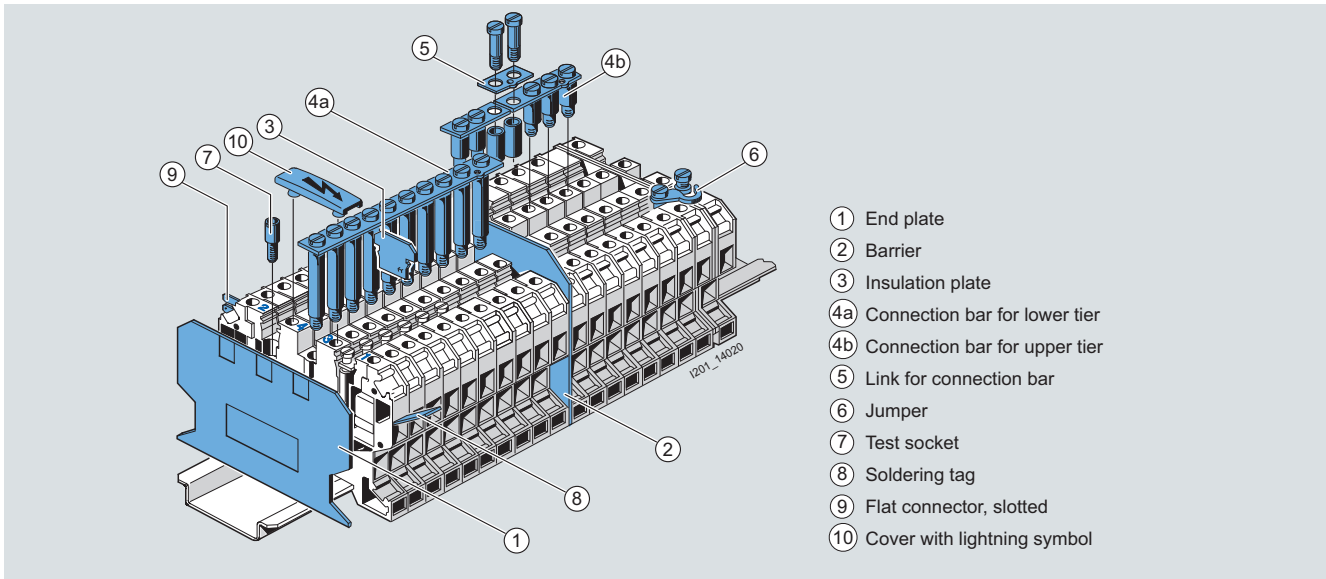
8WA1 Screw Terminals

8WA two-tier terminals

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
Accessories						
Covers						
Versions						
 8WA1 811	• With lightning symbol, for terminal size 4 and 6 mm ²	8WA1 811		1	50 units	041
 8WA1 862	• White, facility for inscription, for terminal size 4 and 6 mm ²	8WA1 862		1	50 units	041
 8WA1 822-7AX01	• For connection bars, for terminal size 2.5 to 6 mm ² , transparent	8WA1 822-7AX01		1	10 units	041
Jumpers						
• For connection bars • For terminal size 4 mm ²						
Versions						
	• For upper tier of 2-pole terminals	8WA1 822-7VG00		1	50 units	041
	• For lower tier of 1 and 2-pole terminals	8WA1 822-7VG01		1	50 units	041
End plates, for two-tier terminals						
		8WA1 817		1	50 units	041
Test sockets						
Ø 2.3 mm						
Versions						
 8WA1 854	• For upper tier of 2-pole terminals	8WA1 854		1	100 units	041
	• For lower tier of 1 and 2-pole terminals	8WA1 884		1	100 units	041
Accessories						
Spacer sleeves						
	• For lower tier of 1 and 2-pole terminals	8WA1 822-7VH11		1	100 units	041
	• Suitable for 2.3 mm test socket					
Disconnecting links						
For upper tier of 2-pole terminals						
Note						
The terminals must be fitted with end plates and must be fitted with the end plates facing each other.						
 8WA1 865		8WA1 865		1	50 units	041
Insulation plates, for terminal size 2.5 to 6 mm²						
 8WA1 825		8WA1 825		1	50 units	041
Connection bars						
Versions						
	• For upper tier of 2-pole terminals	8WA1 850		1	50 units	041
	- For two terminals	8WA1 851		1	50 units	041
	- For three terminals	8WA1 852		1	20 units	041
	- For four terminals	8WA1 853		1	10 units	041
	- For ten terminals					
	• For lower tier of 1 and 2-pole terminals	8WA1 835		1	50 units	041
	- For two terminals	8WA1 838		1	10 units	041
	- For ten terminals					
Barriers						
 8WA1 823		8WA1 823		1	25 units	041

8WA two-tier terminals with electronic components

Design

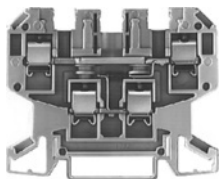


- ① End plate
- ② Barrier
- ③ Insulation plate
- ④a Connection bar for lower tier
- ④b Connection bar for upper tier
- ⑤ Link for connection bar
- ⑥ Jumper
- ⑦ Test socket
- ⑧ Soldering tag
- ⑨ Flat connector, slotted
- ⑩ Cover with lightning symbol

Selection and ordering data

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
General details <ul style="list-style-type: none"> Thermoplastic insulating body Screw terminal at both ends Open on one side Beige 						
Note		Section	Page			
For labeling accessories, see ...		Accessories	11/2			

Terminal size 4 mm²



Diode terminals, terminal size 4 mm²

- Rated insulation voltage 250 V
- Mounting width 6.5 mm
- Terminal height 45 mm
- Terminal length 64 mm
- AWG 18-10
- Jumpering not supported

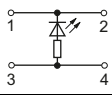
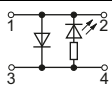
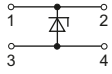
8WA1 011-6EG20

Type	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
<ul style="list-style-type: none"> Rated uninterrupted current 32/1 A 	8WA1 011-6EG20		1 10 units	041	
<ul style="list-style-type: none"> Rated uninterrupted current 32/1 A 	8WA1 011-6EG21		1 10 units	041	
<ul style="list-style-type: none"> Rated uninterrupted current 1 A 	8WA1 011-6EG22		1 10 units	041	
<ul style="list-style-type: none"> Rated uninterrupted current 32/1 A 	8WA1 011-6EG23		1 10 units	041	
<ul style="list-style-type: none"> Rated uninterrupted current 32/1 A 	8WA1 011-6EG24		1 10 units	041	
Accessories		Section	Page		
End plates, for two-tier terminals		Accessories	9/22	8WA1 817	1 50 units 041

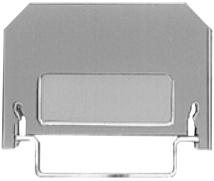


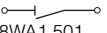


* You can order this quantity or a multiple thereof.

8WA1 Screw Terminals

8WA1 two-tier terminals with electronic components

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	
Terminals with red LED, terminal size 4 mm² <ul style="list-style-type: none"> Rated uninterrupted current 32 A Rated insulation voltage 24 V DC Mounting width 6.5 mm Terminal height 45 mm Terminal length 64 mm AWG 18-10 							
Type • Without diode for current limitation		8WA1 011-6EG25		1	10 units	041	
							
• With diode for current limitation		8WA1 011-6EG26		1	10 units	041	
							
Accessories		Section	Page				
End plates, for two-tier terminals		Accessories	9/22	8WA1 817	1	50 units	041
Zener diode terminals, terminal size 4 mm² <ul style="list-style-type: none"> Mounting width 6.5 mm Terminal height 45 mm Terminal length 64 mm AWG 18-10 Let-through current 0.25 A Avalanche voltage $U_Z = 2.4 \text{ V}, \pm 5 \%$ 		8WA1 011-6EG44		1	10 units	041	
							
Accessories		Section	Page				
End plates, for two-tier terminals		Accessories	9/22	8WA1 817	1	50 units	041
Accessories							
End plates, for two-tier terminals		8WA1 817		1	50 units	041	



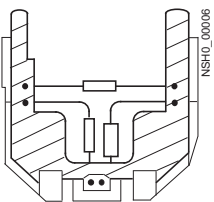
Selection and ordering data

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
General details <ul style="list-style-type: none"> Thermoplastic insulating body Enclosed at both ends 						
Note		Section	Page			
For labeling accessories, see ...		Accessories	11/2			
Terminal size 2.5 mm²						
 8WA1 011-1EF20		Diode terminals, terminal size 2.5 mm² <ul style="list-style-type: none"> Rated insulation voltage 250 V U_{RRM} Mounting width 6 mm Terminal height 26 mm Terminal length 41 mm Screw terminals at both ends with test options for Ø 2.3 mm test plug Rated uninterrupted current 1 A Peak blocking voltage 1000 V 		8WA1 011-1EF20		1 5 units 041
 8WA1 011-1EF20		Accessories <ul style="list-style-type: none"> Test plugs Barriers, for terminal size 1.5 to 4 mm² 		8WA1 868 8WA1 820		1 10 units 041 1 50 units 041
 8WA1 501		Through-type terminals, terminal size 2.5 mm², with sectionalizing feature <ul style="list-style-type: none"> Rated uninterrupted current 10 A Rated insulation voltage 380 V AC, 450 V DC (with alternate outgoing soldering tags) <ul style="list-style-type: none"> Open isolating distance 380 V AC, 450 V DC For use of barriers up to 750 V AC, 900 V DC Mounting width 6 mm Terminal height 29 mm Terminal length 41 mm With 2 holes for Ø 2.3 mm test plug With screw terminals at both ends 		8WA1 501		1 10 units 041
 8WA1 501		Note Through-type terminals with sectionalizing feature allow easy isolation of the current path without disconnection of conductors. The sockets of the terminal screws allow actions, such as the measuring of the loop resistance or connection of an ammeter to the circuit. The use of connection combs reduces the conductor cross-section by one level.		8WA1 868 8WA1 820		1 10 units 041 1 50 units 041
Accessories		Test plugs Red		8WA1 868		1 10 units 041
 8WA1 868		Barriers, for terminal size 1.5 to 4 mm²		8WA1 820		1 50 units 041
 8WA1 820						

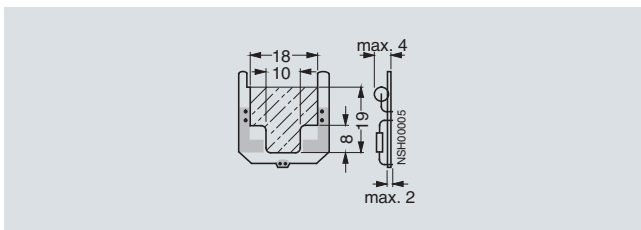
8WA1 Screw Terminals

8WA terminals for components

Selection and ordering data

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
General details <ul style="list-style-type: none"> • Terminals for components • Screw terminal at both ends for 2 conductors each • Plugs with PCB for components • Enclosed at both ends 						
Note		Section	Page			
For labeling accessories, see ...		Accessories	11/2			
Terminal size 1.5 mm²						
 <p>8WA1 011-1EE00</p>		Terminals for components, terminal size 1.5 mm² (enclosure only) <ul style="list-style-type: none"> • Rated uninterrupted current 6.3 A • Rated insulation voltage 500 V • Mounting width 10 mm • Terminal height 40 mm • Terminal length 57 mm • For self-fitting with components • To next terminal, determined internally through customer's components 		8WA1 011-1EE00		1 5/50 units 041
 <p>8WA1 822-7EE00</p>		Plugs for components, terminal size 1.5 mm² <ul style="list-style-type: none"> • Rated uninterrupted current 6.3 A • Rated insulation voltage 500 V • Mounting width 10 mm • Plug height 29 mm • Plug length 41 mm • With PCB and inscription label (20 mm × 9 mm) 		8WA1 822-7EE00		1 1 unit 041
 <p>Plugs, fully equipped, example</p>						

Dimensional drawings



Space for components

Overview

8WA1 011-1SF12 fuse terminals are used to protect control circuits against short-circuits.

The fuse terminals are intended for 5 mm × 20 mm and 5 mm × 25 mm G fuse links up to 6.3 A and 250 V and for bridging links up to 16 A and 800 V and have a mounting for a replacement fuse link.

The fuse terminals are suitable for fuse links, sizes ¼" × 1", ¼" × 1¼" (6.3 mm × 32 mm) to 6.3 A and 250 V.

Fuse terminals are positive opening fuse-disconnectors.



The fuse links must be replaced at zero voltage. Finger safety is ensured in both closed and open positions.

The LED indicates the status of the disconnected fuse (residual current from 2 mA to 5 mA), but not if the plug is removed (floating).

The double connection is designed so that two conductors with different cross-sections can also be securely connected.

The fixing base of the G fuse terminal allows both centered and recessed mounting, allowing the unhindered routing of a 6 mm × 6 mm N-busbar. The G fuse terminal can therefore be joined into a single group with the other terminals of a branch.



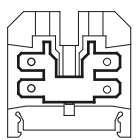



Selection and ordering data

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG																																																														
General details <ul style="list-style-type: none"> • With thermoplastic insulating body • Screw terminal at both ends for 2 conductors each • Enclosed at both ends <table border="1"> <thead> <tr> <th>Note</th> <th>Section</th> <th>Page</th> </tr> </thead> <tbody> <tr> <td>For labeling accessories, see ...</td> <td>Accessories</td> <td>11/2</td> </tr> </tbody> </table>							Note	Section	Page	For labeling accessories, see ...	Accessories	11/2																																																								
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Terminal size 1.5 mm²																																																																				
Fuse terminals, terminal size 1.5 mm² <ul style="list-style-type: none"> • Rated uninterrupted current 6.3 A when using fuses • Rated uninterrupted current 16 A when using the bridging link • Rated uninterrupted voltage 250 V when using fuses • Rated insulation voltage 800 V when using the bridging link • Mounting width 10 mm • Terminal height 42 mm • Terminal length 57 mm • Open isolating distance 500 V •  AWG 18-14 •  AWG 18-14 <table border="1"> <thead> <tr> <th>Versions</th> <th>Order No.</th> <th>Price per PU</th> <th>PU (UNIT, SET, M)</th> <th>PS*/P. unit</th> <th>PG</th> </tr> </thead> <tbody> <tr> <td rowspan="4"> <ul style="list-style-type: none"> • For G-fuse <ul style="list-style-type: none"> - Without LED - With LED 24 V AC/DC - With LED 48 V AC/DC - With LED 230 V AC/DC • For inch fuse <ul style="list-style-type: none"> - Without LED - With LED 24 V AC/DC - With LED, 120 V AC/110 V DC </td> <td>8WA1 011-1SF12</td> <td></td> <td>1</td> <td>10 units</td> <td>041</td> </tr> <tr> <td>8WA1 011-1SF13</td> <td></td> <td>1</td> <td>10 units</td> <td>041</td> </tr> <tr> <td>8WA1 011-1SF14</td> <td></td> <td>1</td> <td>10 units</td> <td>041</td> </tr> <tr> <td>8WA1 011-1SF15</td> <td></td> <td>1</td> <td>10 units</td> <td>041</td> </tr> <tr> <td></td> <td>8WA1 011-1SF30</td> <td></td> <td>1</td> <td>10 units</td> <td>041</td> </tr> <tr> <td></td> <td>8WA1 011-1SF31</td> <td></td> <td>1</td> <td>10 units</td> <td>041</td> </tr> <tr> <td></td> <td>8WA1 011-1SF32</td> <td></td> <td>1</td> <td>10 units</td> <td>041</td> </tr> </tbody> </table>							Versions	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	<ul style="list-style-type: none"> • For G-fuse <ul style="list-style-type: none"> - Without LED - With LED 24 V AC/DC - With LED 48 V AC/DC - With LED 230 V AC/DC • For inch fuse <ul style="list-style-type: none"> - Without LED - With LED 24 V AC/DC - With LED, 120 V AC/110 V DC 	8WA1 011-1SF12		1	10 units	041	8WA1 011-1SF13		1	10 units	041	8WA1 011-1SF14		1	10 units	041	8WA1 011-1SF15		1	10 units	041		8WA1 011-1SF30		1	10 units	041		8WA1 011-1SF31		1	10 units	041		8WA1 011-1SF32		1	10 units	041																	
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Bridging links 5 mm × 25 mm																																																																				
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8WA1 Screw Terminals

8WA through-type terminals with soldered and plug-in connection

Selection and ordering data

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
General details <ul style="list-style-type: none"> • With thermoplastic insulating body • Enclosed at both ends 						
Note		Section	Page			
For labeling accessories, see ...		Accessories	11/2			
Terminal size 1.5 mm²						
 8WA1 221		Through-type terminals, terminal size 1.5 mm² <ul style="list-style-type: none"> • Beige • Rated uninterrupted current 18 A • Rated insulation voltage 380 V AC, 450 V DC with alternately arranged terminals; when using barriers up to 800 V • Mounting width 5.5 mm • Terminal height 26 mm • Terminal length 41 mm • Soldered connection at both ends 		8WA1 221	1 50 units	041
Accessories		Section	Page			
• Covers						
- With lightning symbol		Accessories	9/26	8WA1 810	1 50 units	041
- White, facility for inscription		Accessories	9/26	8WA1 860	1 50 units	041
• Barriers, for terminal size 1.5 to 4 mm ²		Accessories	9/26	8WA1 820	1 50 units	041
Terminal size 6 mm²						
 8WA1 232		Through-type terminals, terminal size 6 mm², with plug-in terminal <ul style="list-style-type: none"> • Beige • Rated uninterrupted current 16 A per clamping point • Rated insulation voltage 400 V, when using barriers up to 1000 V • Mounting width 8 mm • Flat connection at both ends • Four flat-type connections 6.3 ... 0.8 mm 		8WA1 232	1 50 units	041
Accessories		Section	Page			
• Covers						
- With lightning symbol		Accessories	9/26	8WA1 811	1 50 units	041
- White, facility for inscription		Accessories	9/26	8WA1 862	1 50 units	041
• Connection bars						
- For two terminals		Accessories	9/26	8WA1 822-7VH12	1 50 units	041
- For ten terminals		Accessories	9/26	8WA1 822-7VH20	1 10 units	041
• Barriers, for terminal size 6 to 16 mm ²		Accessories	9/26	8WA1 821	1 50 units	041
 8WA1 232						
Accessories						
 8WA1 811		Covers				
Versions						
• With lightning symbol						
- For terminal size 1 ... 2.5 mm ²				8WA1 810	1 50 units	041
- For terminal size 6 mm ²				8WA1 811	1 50 units	041
• White, facility for inscription						
- For terminal size 1 ... 2.5 mm ²				8WA1 860	1 50 units	041
- For terminal size 6 mm ²				8WA1 862	1 50 units	041
 8WA1 822-7VH12		Connection bars, for through-type terminal, terminal size 6 mm², with plug-in connection				
Versions						
• For two terminals				8WA1 822-7VH12	1 50 units	041
• For ten terminals				8WA1 822-7VH20	1 10 units	041
 8WA1 821		Barriers				
Versions						
• For terminal size 1.5 ... 4 mm ²				8WA1 820	1 50 units	041
• For terminal size 6 ... 16 mm ²				8WA1 821	1 50 units	041

Overview

Measuring transformer terminals can be used for testing and isolating circuits in switchboards, control rooms, etc. without interrupting operation.

The isolating and instrument isolating terminals contain an isolating device in the through-type connection. The isolating device permits electrical separation between the input and output of a terminal.

Test sockets for plugs with a diameter of 4 mm can be screwed into the front side of the through-type and isolating terminals. The rated insulation voltage between colored test sockets is 125 V. The rated insulation voltage between test sockets and connection bars not connected to the terminal is 16 V (circuit 3, terminals 3 and 5).

Two adjacent terminals can be connected in parallel with the disconnecting link. The disconnecting link can be operated in any position of the isolating device.

Instrument set for one transformer

The instrument set for one transformer makes the basic circuit of the transformer terminal blocks clear. This basic circuit is also included in much larger instrument sets, which is extended by adding on equivalent circuits. Links between the basic circuits provide many kinds of testing facilities, parallel outgoing lines to other measuring devices, connection of test equipment, etc.

Instrument set for three transformers

The simplest version of an instrument set for a three-phase circuit consists of three basic circuits strung together without any continuing links or extensions. Instead of isolating terminals 1, 3 and 5, less expensive through-type terminals can also be used.

On the other hand, it is also possible to use instrument isolating terminals for this purpose so that the terminal versions are all the same.

Instrument set for three transformers with neutral point

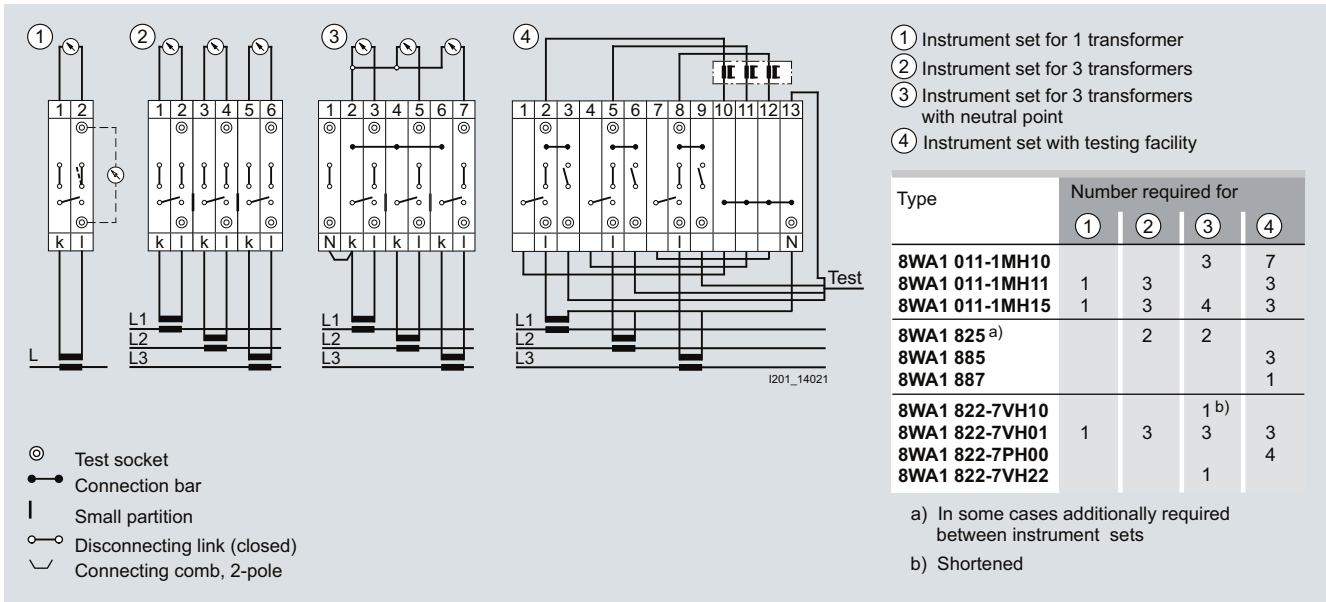
The instrument set with a neutral point is an extension of the previous circuit. Four instead of six lines are sufficient for connecting it with the measuring devices. The neutral point is produced on the measuring instruments on the one hand, and using a shortened 8WA1 822-7VH10 connection bar on the other. The instrument isolating terminal 1 is connected to the neutral point using a connecting comb.

Note

The introduction of the 8WA1 011-1MH10 through-type terminals and their associated disconnecting links has made it considerably easier to configure terminal sets for current transformers. Instead of the 12 isolating or instrument isolating terminals used previously, now only 4 instrument isolating terminals and 3 through-type terminals are required.

Instrument set with test facility

This instrument set represents a significant enhancement over previous types. In normal operation, terminals 2, 5 and 8 are closed. For testing a measuring instrument (e.g. a plotter), these terminals are opened and terminals 3, 6 and 9 are closed in order to feed in a test signal. The transformers first have to be short-circuited with the disconnecting links between terminals 1-2, 4-5 and 7-8. Wire jumpers connect terminals 1, 4 and 7 with the neutral point. It is formed in terminals 10, 11, 12 and 13 with an 8WA1 887 connection bar.




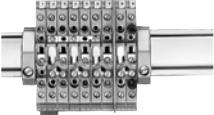
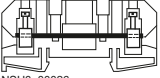


Connection option for measuring transformer terminals (instrument sets)


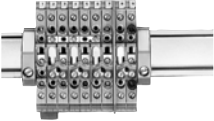
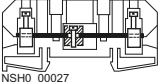


8WA1 Screw Terminals

8WA measuring transformer terminals

Selection and ordering data


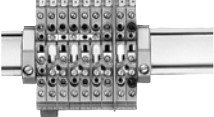
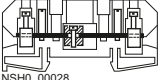







Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
General details <ul style="list-style-type: none"> • With thermoplastic insulating body • Screw terminals at both ends and two holes for test sockets for Ø 4 mm test plug, insulated at both ends • Enclosed at both ends 						
Note		Section	Page			
For labeling accessories, see ...		Accessories	11/2			
Terminal size 6 mm²						
 8WA1 011-1MH10		Through-type terminals, terminal size 6 mm² <ul style="list-style-type: none"> • Rated uninterrupted current 41 A • Rated insulation voltage 500 V • Mounting width 8 mm • Terminal height 33 mm • Terminal length 83 mm • Without test sockets •  AWG 14-8 •  AWG 16-10 		8WA1 011-1MH10		1 20 units 041
 Typical circuit diagram		Accessories				
 NSH0_00026 8WA1 011-1MH10		<ul style="list-style-type: none"> • Covers, for connection bars <ul style="list-style-type: none"> - Transparent <i>Accessories</i> 9/30 - White, facility for inscription <i>Accessories</i> 9/30 • Test sockets <ul style="list-style-type: none"> - Rated voltage between test socket and bypassed connection bar: 16 V, recessed <i>Accessories</i> 9/30 - Rated voltage between two test sockets: 125 V <ul style="list-style-type: none"> ◦ Green <i>Accessories</i> 9/30 ◦ Black <i>Accessories</i> 9/30 ◦ Red <i>Accessories</i> 9/30 • Test plugs <i>Accessories</i> 9/30 • Disconnecting links <i>Accessories</i> 9/30 • Insulation plates, for terminal size 2.5 to 6 mm² <i>Accessories</i> 9/30 • Connection combs <ul style="list-style-type: none"> - 10-pole for measuring transformer terminals, can be shortened as required <i>Accessories</i> 9/31 - 2-pole <i>Accessories</i> 9/31 • Connection bars, for terminal size 6 mm² <ul style="list-style-type: none"> - Two terminals <i>Accessories</i> 9/31 - Three terminals <i>Accessories</i> 9/31 - Four terminals <i>Accessories</i> 9/31 - Ten terminals <i>Accessories</i> 9/31 - Unmounted for ten terminals <i>Accessories</i> 9/31 • Barriers, for Insta terminals, terminal size 2.5 mm² and measuring transformer terminals, terminal size 6 mm² <i>Accessories</i> 9/31 		8WA1 822-7AX01 1 10 units 041 8WA1 822-7AX03 1 10 units 041 8WA1 822-7PH00 1 50 units 041 8WA1 822-7PH03 1 50 units 041 8WA1 822-7PH06 1 50 units 041 8WA1 822-7PH08 1 50 units 041 8WA1 868 1 10 units 041 8WA1 822-7VH01 1 50 units 041 8WA1 825 1 50 units 041 8WA7 163 1 10 units 041 8WA1 822-7VH22 1 10 units 041 8WA1 885 1 50 units 041 8WA1 886 1 50 units 041 8WA1 887 1 20 units 041 8WA1 888 1 10 units 041 8WA1 822-7VH10 1 50 units 041 8WA1 822-7TH00 1 50 units 041		

8WA measuring transformer terminals




Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
 <p>8WA1 011-1MH11</p>  <p>Typical circuit diagram</p>  <p>NSH0_00027 8WA1 011-1MH11</p>		8WA1 011-1MH11		1 20 units		041
	<p>Isolating terminals, terminal size 6 mm²</p> <ul style="list-style-type: none"> • Rated uninterrupted current 41 A • Rated insulation voltage 500 V • Mounting width 8 mm • Terminal height 33 mm • Terminal length 83 mm • Without test sockets •  AWG 14-8 •  AWG 16-10 					
<p>Accessories</p> <ul style="list-style-type: none"> • <i>Covers, for connection bars</i> <ul style="list-style-type: none"> - Transparent <i>Accessories</i> 9/30 - White, facility for inscription <i>Accessories</i> 9/30 • <i>Test sockets</i> <ul style="list-style-type: none"> - Rated voltage between test socket and bypassed connection bar: 16 V, recessed <i>Accessories</i> 9/30 - Rated voltage between two test sockets: 125 V <ul style="list-style-type: none"> ◦ Green <i>Accessories</i> 9/30 ◦ Black <i>Accessories</i> 9/30 ◦ Red <i>Accessories</i> 9/30 • <i>Test plugs</i> <i>Accessories</i> 9/30 • <i>Disconnecting links</i> <i>Accessories</i> 9/30 • <i>Insulation plates, for terminal size 2.5 to 6 mm²</i> <i>Accessories</i> 9/30 • <i>Connection combs</i> <ul style="list-style-type: none"> - 10-pole for measuring transformer terminals, can be shortened as required <i>Accessories</i> 9/31 - 2-pole <i>Accessories</i> 9/31 • <i>Connection bars, for terminal size 6 mm²</i> <ul style="list-style-type: none"> - Two terminals <i>Accessories</i> 9/31 - Three terminals <i>Accessories</i> 9/31 - Four terminals <i>Accessories</i> 9/31 - Ten terminals <i>Accessories</i> 9/31 - Unmounted for ten terminals <i>Accessories</i> 9/31 • <i>Barriers, for Insta terminals, terminal size 2.5 mm² and measuring transformer terminals, terminal size 6 mm²</i> <i>Accessories</i> 9/31 						
		8WA1 822-7AX01		1 10 units		041
		8WA1 822-7AX03		1 10 units		041
		8WA1 822-7PH00		1 50 units		041
		8WA1 822-7PH03		1 50 units		041
		8WA1 822-7PH06		1 50 units		041
		8WA1 822-7PH08		1 50 units		041
		8WA1 868		1 10 units		041
		8WA1 822-7VH01		1 50 units		041
		8WA1 825		1 50 units		041
		8WA7 163		1 10 units		041
		8WA1 822-7VH22		1 10 units		041
		8WA1 885		1 50 units		041
		8WA1 886		1 50 units		041
		8WA1 887		1 20 units		041
		8WA1 888		1 10 units		041
		8WA1 822-7VH10		1 50 units		041
		8WA1 822-7TH00		1 50 units		041

8WA1 Screw Terminals

8WA measuring transformer terminals

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG																																																																						
 <p>8WA1 011-1MH15</p>  <p>Typical circuit diagram</p>  <p>NSH0_00028 8WA1 011-1MH15</p>		Instrument isolating terminals, terminal size 6 mm²																																																																										
		<ul style="list-style-type: none"> • Mounting width 8 mm • Terminal height 33 mm • Terminal length 83 mm • Open isolating distance • With recessed test sockets •  AWG 14-8 •  AWG 16-10 				1 20 units 041																																																																						
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		8WA1 822-7AX03		1 10 units		041																																																																						
		8WA1 822-7PH00		1 50 units		041																																																																						
		8WA1 822-7PH03		1 50 units		041																																																																						
		8WA1 822-7PH06		1 50 units		041																																																																						
		8WA1 822-7PH08		1 50 units		041																																																																						
		8WA1 868		1 10 units		041																																																																						
		8WA1 822-7VH01		1 50 units		041																																																																						
		8WA1 825		1 50 units		041																																																																						
		8WA7 163		1 10 units		041																																																																						
		8WA1 822-7VH22		1 10 units		041																																																																						
		8WA1 885		1 50 units		041																																																																						
		8WA1 886		1 50 units		041																																																																						
		8WA1 887		1 20 units		041																																																																						
		8WA1 888		1 10 units		041																																																																						
		8WA1 822-7VH10		1 50 units		041																																																																						
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		8WA1 868		1 10 units		041																																																																						
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		Rated insulation voltage with disconnecting link open according to DIN VDE 0110: 125 V Gr. C or 250 V Gr. B																																																																										
																																																																												
		8WA1 822-7VH01		1 50 units		041																																																																						
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		8WA1 825		1 50 units		041																																																																						

8WA measuring transformer terminals

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG				
 8WA7 163		Connection combs For inserting in the clamping points								
		Versions								
		8WA7 163		1	10 units	041				
		8WA1 822-7VH22		1	10 units	041				
 8WA1 885		Connection bars, for terminal size 6 mm²								
		Versions								
		• Two terminals					8WA1 885	1	50 units	041
		• Three terminals					8WA1 886	1	50 units	041
		• Four terminals					8WA1 887	1	20 units	041
• Ten terminals		8WA1 888	1	10 units	041					
• Unmounted for ten terminals		8WA1 822-7VH10		1	50 units	041				
 8WA1 822-7TH00		Barriers, for Insta terminals, terminal size 2.5 mm² and measuring transformer terminals, terminal size 6 mm²								
		8WA1 822-7TH00								

8WA1 Screw Terminals

8WA transformer terminals

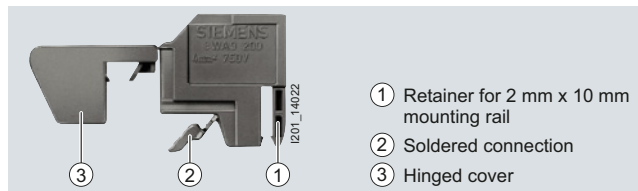
Overview

The 8WA9 200 terminals are used for transformers and rectifiers.

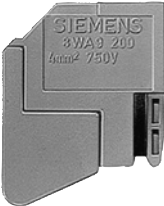

The terminals are insulated at both ends and are finger-safe to DIN VDE 0106 Part 100.

The normal labeling accessories can be used to label the transformer terminals.

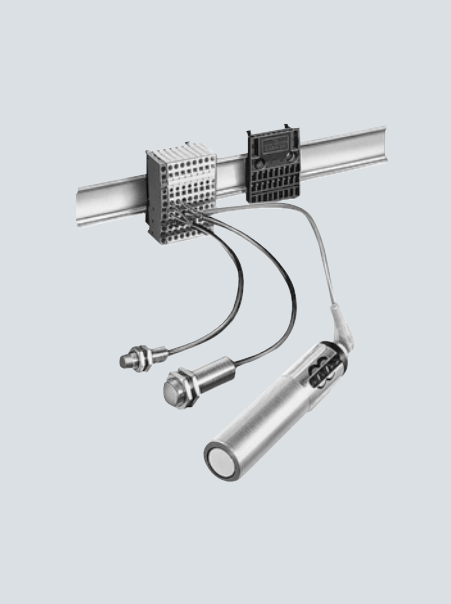
In addition to the screw connection, the 8WA9 terminals have a 6.3-0.8 flat connector. The soldered connection is protected by a hinged cover following soldering on of the conductor.



Selection and ordering data

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG											
Terminal size 4 mm²																	
 8WA9 200 (side view)  8WA9 200 (plan view)	Transformer terminals, terminal size 4 mm² <ul style="list-style-type: none"> • Enclosed at both ends • Beige • Rated uninterrupted current 24 A • Rated insulation voltage acc. to DIN VDE 0110, Group C 690 V, 600 V to Ⓢ, 600 V to Ⓢ Group D • Mounting width 7.5 mm • Terminal height 34 mm • Terminal length 27 mm • With insulating body • Made of molded thermoplastic • For 2 mm x 10 mm mounting rail • Screw terminal: <ul style="list-style-type: none"> - Solid 0.5 mm² up to 6 mm² - Finely stranded with or without end sleeve 0.5 mm² to 4 mm² - Stripped length 10 mm • Flat connector: 6.3-0.8 • Soldered connection: <ul style="list-style-type: none"> - Solid up to Ø 3 mm - Finely stranded up to 2.5 mm² - Stripped length 7 mm - Ⓢ18-10 AWG, Ⓢ18-10 AWG 		8WA9 200		1	100 units	041										
	<table border="1"> <thead> <tr> <th>Accessories</th> <th>Section</th> <th>Page</th> </tr> </thead> <tbody> <tr> <td>• Labeling strips</td> <td></td> <td></td> </tr> <tr> <td>- Blank</td> <td>Accessories</td> <td>9/32</td> </tr> <tr> <td>- Any inscription</td> <td>Accessories</td> <td>9/32</td> </tr> </tbody> </table>	Accessories	Section	Page	• Labeling strips			- Blank	Accessories	9/32	- Any inscription	Accessories	9/32				
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• Any inscription																	
		8WA8 848-2AY		100	100 units	041											
		8WA8 847-OXA		100	100 units	041											
		8WA8 848-2AY		100	100 units	041											
		8WA8 847-OXA		100	100 units	041											

8WA2 Spring-Loaded Terminals



10/2

8WA initiator/actuator terminals

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Technical specifications

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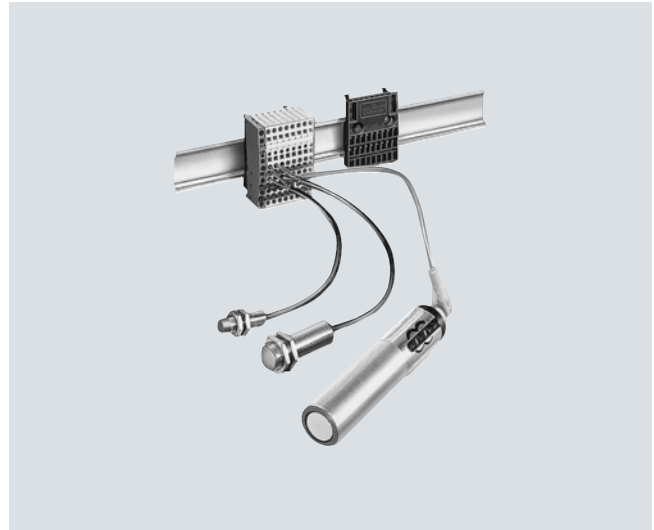
8WA2 Spring-Loaded Terminals

8WA initiator/actuator terminals

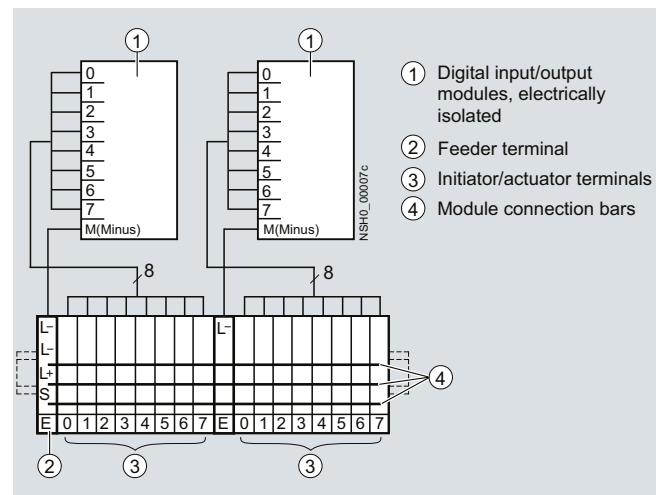
Overview

- Fast and cost-effective connection of signal transmitters to the PLC
- Only 5 mm wide but still fitted with connection facility for proximity switches with up to three conductors plus shielding
- Connection is clear, simple and safe due to:
 - Front connection
 - Color coding of clamping points
 - Conductors from only 0.08 to 1.5 mm² without end sleeves that are secured using spring-loaded terminals
- LEDs make the switch states or the application of voltage easy to see, it is no longer necessary to test with measuring instruments
- Connection modules cut wiring requirements and time because the potentials of the terminals (L+, L- and S) are automatically connected; there is therefore no need for linking accessories
- The modules contain a feeder terminal and 8 or 17 initiator/actuator terminals and can be snapped or screwed onto 35 mm standard mounting rails.

The feeder terminals are fitted with an additional negative outgoing feeder which can be used to supply isolated digital input/output modules. The frame (M) can therefore be bridged by means of the terminals.



Terminals and connection modules (always order as combined unit)



Initiator/actuator terminals with electrically isolated digital input/output modules

Technical specifications

Continuous load at increased ambient temperatures

8WA2 terminal blocks can be loaded with their full uninterrupted current at ambient temperatures of up to +55 °C. At higher ambient temperatures, a current reduction according to the following formula is required:

$$I_{th2}' = I_{th2} \cdot k$$

I_{th} = Uninterrupted current according to selection tables, relative to the nominal cross-section

I_{th2}' = Uninterrupted current at increased ambient temperature

k = Derating factor according to table

Ambient temperature	Derating factor k
60 °C	0.94
65 °C	0.88
70 °C	0.82
75 °C	0.75
80 °C	0.67
85 °C	0.58
90 °C	0.47
95 °C	0.33

The maximum permissible clamping point overtemperature of 45 K acc. to IEC 60947-7-1 and EN 60947-7-1, Part 1, is not exceeded at ambient temperatures up to 100 °C.

Clamping points

Terminal size	Type	Thread diameter of terminal screws	Screwdriver blades acc. to DIN 5264 8WA2 803 or 8WA2 804	Tightening torque = test torque	Tensile forces acc. to IEC 60947-1 at max. conductor connection	Stripped length
mm ²				Nm	N	mm
1.5	8WA2 011-3KE	--	0.5 × 3.5	--	40	8 ... 9

Single-conductor connection

Terminal size	Type	Smallest conductor cross-section					Largest conductor cross-section					
		Solid	Stranded	Finely stranded	Finely stranded with end sleeve		Solid	Stranded	Finely stranded	Finely stranded with end sleeve		
mm ²		mm ²	mm ²	mm ²	mm ²	Size	mm ²	mm ²	mm ²	mm ²	mm ²	Size
1.5	8WA2 011-3KE	0.08	0.5	0.2	--	--	1.5	1.5	1.5	--	--	


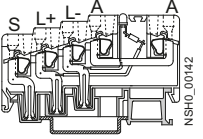
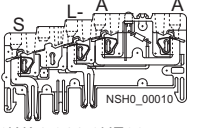


UL and IEC rating

Terminal size	Type	CSA rating			UR rating		
		AWG	Rated current I_n A	Rated voltage U_e V	AWG	Rated current I_n A	Rated voltage U_e V
1.5	8WA2 011-3KE	28 ... 16	10	AC 65 DC	22 ... 16	10	65

8WA2 Spring-Loaded Terminals

8WA initiator/actuator terminals

Selection and ordering data

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
General details <ul style="list-style-type: none"> Thermoplastic insulating body Front connection with spring-loaded terminal L+ = brown S (shield) = green L- = blue A (output), connection not colored Enclosed at both ends 						
Note		Section	Page			
For labeling accessories, see ...		8WA accessories	11/2			
Terminal size 1.5 mm²						
Feeder terminals, terminal size 1.5 mm² <ul style="list-style-type: none"> Orange Rated uninterrupted current 10 A Rated insulation voltage 65 V Mounting width 5 mm For 250 V, pollution degree 2 						
Versions						
• PNP						
- L+, L-, S, without LED			8WA2 011-3KE00	1	20 units	041
- L+, L-, without LED			8WA2 011-3KE01	1	20 units	041
- L+, L-, S, with green LED, 15 ... 30 V			8WA2 011-3KE02	1	20 units	041
• NPN						
- L+, L-, S, without LED			8WA2 011-3KE00	1	20 units	041
- L+, L-, without LED, without ground connection			8WA2 011-3KE01	1	20 units	041
 8WA2 011-3KE00						
Initiator terminals, terminal size 1.5 mm² <ul style="list-style-type: none"> Light gray Rated uninterrupted current 10 A Rated insulation voltage 65 V Mounting width 5 mm For 250 V, pollution degree 2 Current consumption with LED 4.8 mA PNP 						
Versions						
• L+, L-, A, without LED			8WA2 011-3KE10	1	20 units	041
• L+, L-, S, A, without LED			8WA2 011-3KE11	1	20 units	041
• L+, L-, A, with yellow LED, 15 ... 30 V			8WA2 011-3KE12	1	20 units	041
• L+, L-, S, A, with yellow LED, 15 ... 30 V			8WA2 011-3KE13	1	20 units	041
 8WA2 011-3KE13 initiator terminals with connection module						
Actuator terminals, terminal size 1.5 mm² <ul style="list-style-type: none"> Light gray Rated uninterrupted current 10 A Rated insulation voltage 65 V Mounting width 5 mm For 250 V, pollution degree 2 Current consumption with LED 4.8 mA 						
Versions						
• PNP						
- L-, S, A, without LED			8WA2 011-3KE31	1	20 units	041
- L-, S, A, with yellow LED, 15 ... 30 V			8WA2 011-3KE33	1	20 units	041
• NPN						
- L+, S, A, without LED			8WA2 011-3KE30	1	20 units	041
 8WA2 011-3KE33 actuator terminals with LED						
Connection modules, terminal size 1.5 mm², for all PNP and NPN terminals <ul style="list-style-type: none"> Black Rated uninterrupted current 10 A Rated insulation voltage 65 V Mounting width 5 mm For 250 V, pollution degree 2 L+, L-, S integrated 						
Versions						
• For 8 initiator/actuator terminals and one feeder terminal						
- Width 47 mm						
- Height 65 mm			8WA2 011-3KE50	1	10 units	041
• For 16 initiator/actuator terminals, one feeder terminal and space for one terminal for further bridging for subsequent module						
- Width 93 mm						
- Height 65 mm			8WA2 011-3KE51	1	5 units	041
 8WA2 011-3KE50						
Accessories						
Insulation stops, for conductors, for terminal sizes 2.5 ... 4 mm² <ul style="list-style-type: none"> 200 strands 5-fold 0.75 to 1.5 mm² Dark gray 						
 8WA2 822						

Accessories for 8WA Terminal Blocks



11/2	Accessories for labeling system
11/3	Standard labeling system
11/5	Mounting accessories

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→ Product List:
Technical specifications


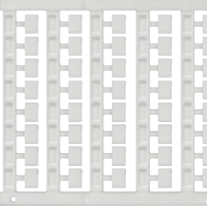
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Accessories for 8WA Terminal Blocks

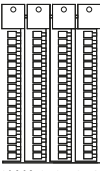
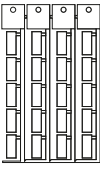
Accessories for labeling system

Selection and ordering data

Accessories for ALPHA FIX PRINT printer labeling systems

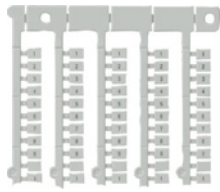
Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
 <p>Fluid cartridges, for ALPHA FIX PRINT printers Black</p> <p>8WH9 060-6BA08</p>		8WH9 060-6BA08		1	1 unit	044
 <p>Labels, for labeling 8WA terminal blocks using the ALPHA FIX PRINT printer 5 × 7 mm</p> <p>8WH8 202-2DA05</p>		8WH8 202-2DA05		100	560 units	044

Accessories for plotter labeling system

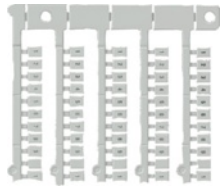
Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
 <p>Labels, for plotter inscription 1 frame = 68 labels</p> <p>Versions</p> <ul style="list-style-type: none"> For 8WA1 and 8WA2, individually removable <ul style="list-style-type: none"> - 5 × 7, white - 5 × 10, white not for two-tier terminals (bottom tier); flat terminals: 8WA1 010-1PQ00, 8WA1 808 <p>Note</p> <p>These labels can only be printed using the plotter.</p> <p>8WA8 850-2AY</p>		<p>8WA8 850-2AY</p> <p>8WA8 851-2AY</p> <p>8WA8 854-2AY</p>		100	1020 units	041
 <p>Device labels</p> <ul style="list-style-type: none"> 1 frame = 20 labels 20 × 9 White <p>Note</p> <p>These labels can only be printed using the plotter.</p> <p>3TX4 210-0R</p>		3TX4 210-0R		100	380 units	41B

Selection and ordering data

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
Labels, for manual inscription <ul style="list-style-type: none"> • Not suitable for plotting • Blank 						
Versions <ul style="list-style-type: none"> • Label size 5 mm × 7 mm • Label size 5 mm × 10 mm 		8WA8 848-2AY 8WA8 800-2AY		100	100 units	041
Note These labels are not suitable for printing with the ALPHA FIX PRINT printer or plotter.				100	100 units	041
Labels, type 860/861 <ul style="list-style-type: none"> • Label size 5 mm × 7 mm • Font height 2 mm • Grid size: 6.2 mm 						
Versions <ul style="list-style-type: none"> • Horizontal inscription • Vertical inscription 		8WA8 860-□□□ 8WA8 861-□□□		100	200 units	041
Inscription <ul style="list-style-type: none"> • 1...5 (40x) • 6...10 (40x) • 11...15 (40x) 		▲▲▲ 0BA 0BB 0BC		100	200 units	041
<ul style="list-style-type: none"> • 16...20 (40x) • 21...25 (40x) • 26...30 (40x) 		0BD 0BE 0BF				
<ul style="list-style-type: none"> • 31...35 (40x) • 36...40 (40x) • 41...45 (40x) 		0BG 0BH 0BJ				
<ul style="list-style-type: none"> • 46...50 (40x) • 51...55 (40x) • 56...60 (40x) 		0BK 0BL 0BM				
<ul style="list-style-type: none"> • 61...65 (40x) • 66...70 (40x) • 71...75 (40x) 		0BN 0BP 0BQ				
<ul style="list-style-type: none"> • 76...80 (40x) • 81...85 (40x) • 86...90 (40x) 		0BR 0BS 0BT				
<ul style="list-style-type: none"> • 91...95 (40x) • 96...100 (40x) • 1...20 (10x) 		0BU 0BV 0AB				
<ul style="list-style-type: none"> • 1...40 (5x) • 41...100 (3x) • 101...200 (2x) 		0AC 0AD 0AF				
<ul style="list-style-type: none"> • 201...300 (2x) • 1...9, blank (20x) • 1...100 (2x) 		0AG 0AA 0AE				
<ul style="list-style-type: none"> • A, B...T (10x) • U, V, W, X, Y, Z (30x) +, - (10x) • L1, L2, L3, N, PE (40x) • U1, V1, W1, U2, V2, W2, (30x); blank (20x) 		1AA 1AB 1AC 1AD				
Labels, yellow, with lightning symbol		8WA8 861-OCF		100	200 units	041




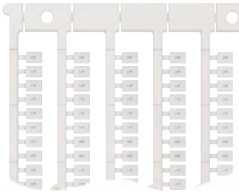



Horizontal inscription (8WA8 860-0AA)









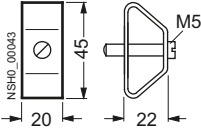
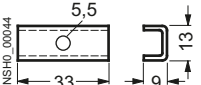
Vertical inscription (8WA8 861-0AA)

Accessories for 8WA Terminal Blocks

Standard labeling systems

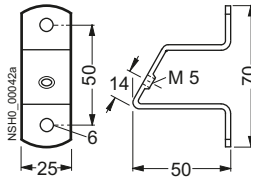
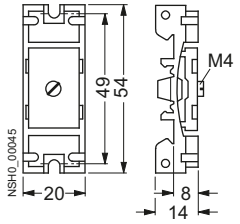

	Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	
 <p>Horizontal inscription (8WA8 847-0AA)</p>  <p>Vertical inscription (8WA8 848-0AA)</p>	Labels, type 847/848 <ul style="list-style-type: none"> Label size 5 mm × 7 mm Font height 2 mm Grid size: 6.2 mm 							
	Versions							
	<ul style="list-style-type: none"> Horizontal inscription Vertical inscription 			8WA8 847-□□□ 8WA8 848-□□□		100	100 units	041
	Inscription			▲▲▲				
	<ul style="list-style-type: none"> L1 (100x) L2 (100x) L3 (100x) 			2AC 2AD 2AE				
	<ul style="list-style-type: none"> N (100x) MP (100x) PE (100x) 			1AR 2AB 2AH				
	<ul style="list-style-type: none"> L+ (100x) L- (100x) 			2AF 2AG				
	<ul style="list-style-type: none"> Blue (100x) - <i>Note: Only as 8WA8 848</i> Ground symbol (100x) 			2BC 2AA				
	<ul style="list-style-type: none"> N (100x) X (100x) Y (100x) 			1AR 1AG 1AH				
		Labels, custom inscriptions <ul style="list-style-type: none"> Label size 5 mm × 7 mm Font height 2 mm Grid size: 6.2 mm Specify required inscription in plain text 						
	Versions							
	<ul style="list-style-type: none"> Horizontal inscription Vertical inscription 			8WA8 847-0XA 8WA8 848-0XA	100	100 units	041	
				8WA1 806	1	50 units	041	
 <p>8WA1 806</p>	End labeling plates <ul style="list-style-type: none"> 21 × 42 mm Paper label, inscription possible, with transparent cover Suitable for 8WA1 805, 8WA1 808 and 8WA2 808 end retainers 							
	Labels, for cables				100	1000 units	041	
 <p>8WA8 846-2AY</p>			8WA8 846-2AY					
	Terminal strip labels Suitable for 8WA1 808 and 8WA2 808 end retainers							
	Versions							
	<ul style="list-style-type: none"> Printed with "X1" Printed with "X2" Printed with "X3" Blank 			8WA8 826-0AA 8WA8 826-0AB 8WA8 826-0AC 3TX4 210-0H	100	100 units	041	
 <p>8WA8 826-0AA</p>					100	100 units	041	
					100	100 units	041	
					100	100 units	41B	

Selection and ordering data

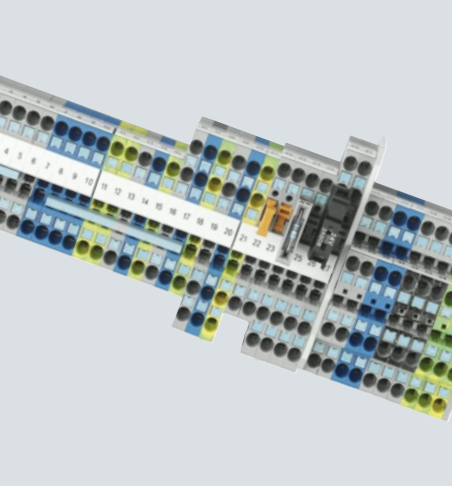
Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
 <p>End retainers, with screw fixing</p> <ul style="list-style-type: none"> Mounting width 10 mm Suitable for 8WA1 806 end labeling plate or 8WA8 826-0A terminal strip identification label or 3TX4 210-0H device label or four 8WA8 8 . labels. 		8WA1 808		1	50 units	041
 <p>End retainers, steel</p> <ul style="list-style-type: none"> Mounting width 10.3 mm Suitable for 8WA1 806 end labeling plates <p>Note</p> <p>An 8WA1 820 barrier must be inserted if using end retainers against an 8WA1 89. connection bar (size 2.5).</p>		8WA1 805		1	50 units	041
 <p>Standard mounting rails</p> <p>Versions</p> <ul style="list-style-type: none"> With holes <ul style="list-style-type: none"> EN 50022-35 × 7.5 2 m long, 1 mm thick Steel, sendzimir-galvanized Non-perforated <ul style="list-style-type: none"> Non-perforated, copper <ul style="list-style-type: none"> EN 50022-35 × 15 2 m long, 2.3 mm thick Non-perforated, steel, galvanized, chromated <ul style="list-style-type: none"> Similar to EN 50022-35 × 15 2 m long, 1.5 mm thick 		5ST1 145		1	20 units	020
		5ST1 141		1	20 units	020
		8WA7 551		1	1 unit	041
		5ST1 142		1	10 units	020
 <p>Test plugs</p> <ul style="list-style-type: none"> For 8WA1 and 8WA2 terminals with 2.3 mm Ø hole or 8WA1 854, 8WA1 884 test sockets Uninterrupted current 10 A <p>Versions</p> <ul style="list-style-type: none"> Red Blue 		8WA1 868 8WA1 870		1 1	10 units 10 units	041 041
 <p>Test sockets</p> <ul style="list-style-type: none"> Ø 2.3 mm With matching spacer sleeve for connection bars, terminal sizes 2.5 and 4 mm², two-tier terminals, rear level, terminal size 6 mm² Uninterrupted current 10 A <p>Versions</p> <ul style="list-style-type: none"> Test sockets Spacer sleeves <p>Note</p> <p>The test socket must be used with a spacer sleeve.</p>		8WA1 884 8WA1 822-7VH11		1 1	100 units 100 units	041 041
 <p>Reduction plugs</p> <ul style="list-style-type: none"> For 8WA1 and 8WA2 terminals with 2.3 mm Ø hole or 8WA1 854, 8WA1 884 test sockets Uninterrupted current 10 A With 4 mm Ø hole 		8WA1 871		1	10 units	041
 <p>Spacer brackets</p> <p>For raised mounting of terminal strips</p>		8WA7 53		1	50 units	041
 <p>Spacers</p> <ul style="list-style-type: none"> With 5.5 mm hole For raised mounting of terminal strips 		8WA7 52		1	100 units	041

Accessories for 8WA Terminal Blocks

Mounting accessories

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
 <p>Mounting brackets For support rails</p> <p>8WA7 46</p>		8WA7 46		1	10 units	041
 <p>Insulation carriers For insulated mounting of support rails onto plates, frame profiles and standard mounting rails EN 50022-35</p> <p>8WA1 857</p>		8WA1 857		1	20 units	041
 <p>Screwdrivers, for 8WA2</p> <ul style="list-style-type: none"> • 3.5 mm × 0.5 mm, partially insulated • Green • Approx. 175 mm long <p>8WA2 880</p>		8WA2 880		1	1 unit	041

Appendix



12/2	Catalog notes
12/3	Ordering notes
12/5	UL notes
12/6	ATEX explosion protection
12/7	Further documentation
12/8	Quality management
12/9	Standards and approvals
12/15	Siemens contacts
12/16	Online services
12/18	Service & Support
12/19	Comprehensive support from A to Z
12/20	Software licenses
12/22	Subject index
12/24	Order No. index incl. export markings
12/30	Conditions of sale and delivery

Catalog notes

Overview

Trademarks

All product designations may be registered trademarks or product names of Siemens AG or supplier companies whose use by third parties for their own purposes may violate the rights of the owner.

Amendments

All technical data, dimensions and weights are subject to change without notice unless otherwise specified on the pages of this catalog.

Dimensions

All dimensions are in mm.

Images

The illustrations are not binding.

Technical data

The technical data in the catalog are for general information. The instruction manuals and the operating instructions on the products must be observed during assembly, operation and maintenance.

Further technical information is available at www.siemens.com/lowvoltage/support

- under Product List:
 - Technical specifications
- under Entry List:
 - Updates
 - Downloads
 - FAQ
 - Manuals
 - Operating instructions
 - Characteristic curves
 - Certificates

Configurators can be found at www.siemens.com/lowvoltage/configurators

Assembly, operation and maintenance

The instruction manuals and the operating instructions on the products must be observed during assembly, operation and maintenance.

Logistics

General

With regard to delivery service, communications and environmental protection, our logistics service ensures "quality from the moment of ordering right through to delivery". By designing our infrastructure according to customer requirements and implementing electronic order processing, we have successfully optimized our logistics processes.

We are proud of our personal consulting service, on-time deliveries and 1-day transport within Germany.

To this end, we supply the preferred types marked with ► ex works.

We regard the ISO 9001 certification and consistent quality checks as an integral part of our services.

Electronic order processing is fast, cost-efficient and error-free. Please contact us if you want to benefit from these advantages.

Packaging, packing units

The packaging in which our equipment is dispatched provides protection against dust and mechanical damage during transport, thus ensuring that all our products arrive in perfect condition.

We select our packaging for maximum environmental compatibility and reusability (e. g. crumpled paper instead of polystyrene chips for protection during transport in packages up to 32 kg) and, in particular, with a view to reducing waste.

With our multi-unit packaging and reusable packaging, we offer you specific types of packaging that are both kind to the environment and tailored to your requirements:

Your advantages at a glance:

- Lower order costs.
- Cost savings through uniform-type packaging: low/no disposal costs.
- Reduced time and cost thanks to short unpacking times.
- "Just-in-time" delivery directly to the production line helps reduce stock: cost savings through reduction of storage area.
- Fast assembly thanks to supply in sets.
- Standard Euro boxes - corresponding to the Euro pallet modular system - suitable for most conveyor systems.
- Active contribution to environmental protection.

Unless stated otherwise in the "Selection and ordering data" of this catalog, our products are supplied individually packed.

For small parts/accessories, we offer you economical packaging units as standard packs containing more than one item, e. g. 5, 10, 50 or 100 units. It is essential that whole number multiples of these quantities be ordered to ensure satisfactory quality of the products and problem-free order processing.

The products are delivered in a neutral carton. The label includes warning notices, the CE mark, the open arrow recycling symbol, and product description information in English and German. In addition to the Order No. (MLFB) and the number of items in the packaging, the Instr. Order No. is also specified for the operating instructions. It can be obtained from your local Siemens representative (you will find a list of your local Siemens representatives at www.siemens.com/automation/partner).

The device Order No. of most devices can also be acquired through the EAN barcode to simplify ordering and storage logistics.

The Order Nos. and EAN codes are assigned electronically in the master data of the products for low-voltage power distribution and electrical installation.

Ordering notes

Overview

Ordering special versions

When ordering products that differ from the standard versions listed in the catalog, "-Z" must be added to the Order No. indicated and the required features must be specified using alpha-numeric order codes or plain text.

Ordering very small quantities

When small orders are placed, the costs associated with order processing are greater than the order value. We therefore recommend that you combine several small orders. Where this is not possible, we regret that we are obliged to make a small processing charge: for orders with a net goods value of less than € 250 we charge a € 20 supplement to cover our order processing and invoicing costs.

Explanations on the Selection and Ordering Data**Delivery time class (DT)**

DT	Meaning	
▶	Preferred type	Preferred types are device types that can be delivered immediately ex works, i. e. they are dispatched within 24 hours.
A	Two workdays	If ordered in normal quantities, the products are usually delivered within the specified delivery times, calculated from the date we receive your order.
B	One week	In exceptional cases, delivery times may vary from those specified.
C	Three weeks	The delivery times are valid ex works from Siemens AG (products ready for dispatch).
D	Six weeks	Shipping times depend on the destination and the method of shipping. The standard shipping time for Germany is one day.
X	On request	The specified delivery times are correct at the time of going to print and are subject to constant optimization. Up-to-date information can be found at www.siemens.com/industrymail .

Price units (PU)

The price unit defines the number of units, sets or meters to which the specified price and weight apply.

PS/P. unit (packaging size/packaging unit)

The packaging size / packaging unit defines the number, e. g. of units, sets or meters, for outer packaging.

- The **first digit** in the PS/P. unit column (packaging size/packaging unit) indicates the minimum order quantity. You can only order this specified quantity or a multiple thereof.
- The **second digit** in the PS/P. unit column (packaging size/packaging unit) specifies the number of units contained in larger packaging (e. g. in a carton). You must order this quantity or a multiple thereof if you want the item to be delivered in a larger packaging quantity.

Examples:

PS/P. unit	Meaning
1 unit	You can order one item or a multiple thereof.
5 units	For example, five units are packed in a bag. Because the bags cannot be opened, you can only order a multiple of the quantity contained in the bag: 5, 10, 15, 20 etc.
5/100 units	One carton contains (for example) 20 bags, each containing 5 units, i. e. a total of 100 units. If only cartons are available for delivery, you need to order a multiple of the carton quantity: 100, 200, 300, etc. Ordering a quantity of 220 units, would result in the following delivery: two cartons, each containing 100 units (= 200 units) and 4 bags, each containing 5 units (= 20 units).
1 set	A set comprises a defined number of different parts.

Price groups (PG)

Each product is allocated to a price group.

Weight

The defined weight is the net weight in kg and refers to the price unit (PU).

Examples

DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS/P. unit	PG	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS/P. unit	PG
▶	8PQ4 000-1BA13		1	1/10 units	155	▶	8GB4 378		1	1 set*	032
DT:	Preferred type					DT:	Preferred type				
PU:	One unit (on which price is based)					PU:	One set* (on which price is based)				
PS/P. unit:	1 = minimum order quantity / 10 = quantity per carton					PS/P. unit:	The minimum order quantity is one set*				
PG:	155					PG:	032				
							* The selection and ordering data specify the parts that make up a set				

Low-voltage power distribution and electrical installation technology. The secrets of UL. You have our support.

Our products for low-voltage power distribution and electrical installation are designed not only for the IEC market. Numerous devices have both UL and IEC approval. This makes it easier for manufacturers of switchgear and controlgear assemblies to enter the North American market.

Exports to North America require special approvals which differ from the IEC directives. On the IEC market, directives define only the essential functions of a system. The technical details are not listed. By contrast, directives on the American market go into the details of how to carry out the installation work etc.

For OEMs and machine manufacturers it is important to know the main differences between the two technical worlds and to work together respectively with manufacturers and suppliers who have the right products and know-how.

Siemens is a strong partner in this case. Our know-how extends from the production of UL-approved devices to the wiring of control cabinets according to UL regulations.

These UL requirements are already taken into account when designing our devices for low-voltage power distribution and electrical installation. They are developed not only for the IEC market but also for the UL market.

We have been working with UL (Underwriters Laboratories Inc.®), the leading technical certification company in the USA, since 1969. We are also glad to share our knowledge with you in the form of training courses.

With our UL-certified products for low-voltage power distribution and electrical installation you are on the safe side and can build control cabinets according to UL standard easily and quickly.

This catalog contains UL-certified devices and systems from the SENTRON and ALPHA product families.



In addition to looking in this catalog you should also check out our Catalog LV 16 "Switching Devices and Components for Applications according to UL" for UL-specific products:

- SIRIUS 3RV17 and 3RV18 Circuit Breakers
- SENTRON protection, switching, measuring and monitoring devices
- ALPHA 8HP molded-plastic distribution systems
- ALPHA FIX Terminal Blocks

Take a look at our range of products and convince yourself. Or simply click on

www.siemens.com/lowvoltage/ul-europa

Here, you will find information on for example UL standards, UL classification and a number of technical particularities of UL.

Under "UL Overview/Standards and Approvals" we provide a summary of the available products and product groups. A table lists the UL standards to which the products conform and contains links to the corresponding UL reports.

Under "Portfolio" we round off with a list of our most relevant products for low-voltage power distribution and electrical installation as well as for low-voltage controls (including links to the respective Internet product pages).

Simply click on the navigation bar and go on a UL discovery tour!

ATEX explosion protection

Overview

In many industries the production, processing, transport and storage of combustible substances are accompanied by escaping gases, vapor or spray which find their way into the environment. Other processes result in combustible dust. Together with the oxygen in the air, the result can be an explosive atmosphere which will explode if ignited.

Serious injury to persons and damage to property can result particularly in the chemical and petrochemical industry, mineral oil and natural gas production, mining, mills (e. g. grain, solid materials) and many other sectors.

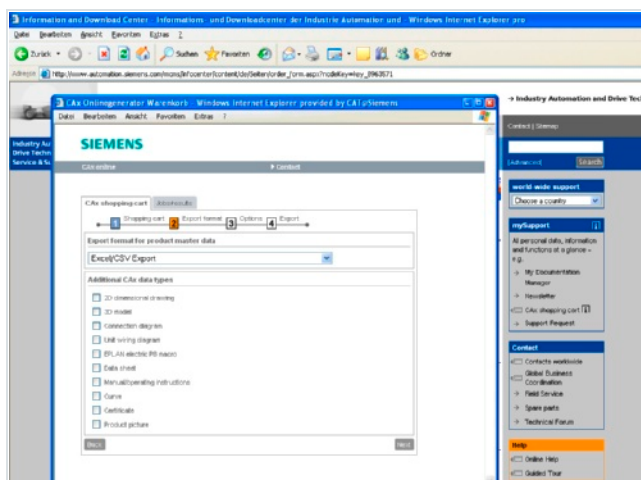
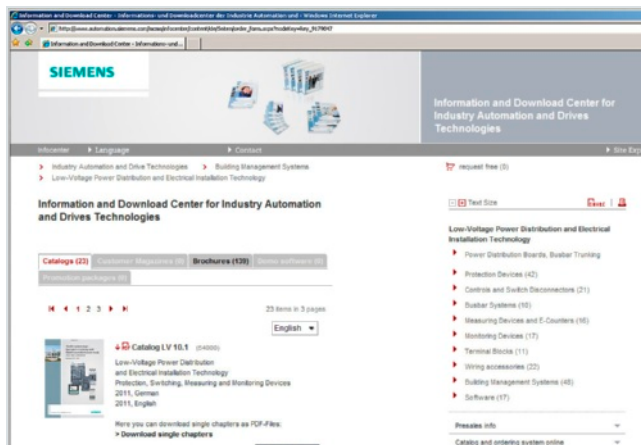
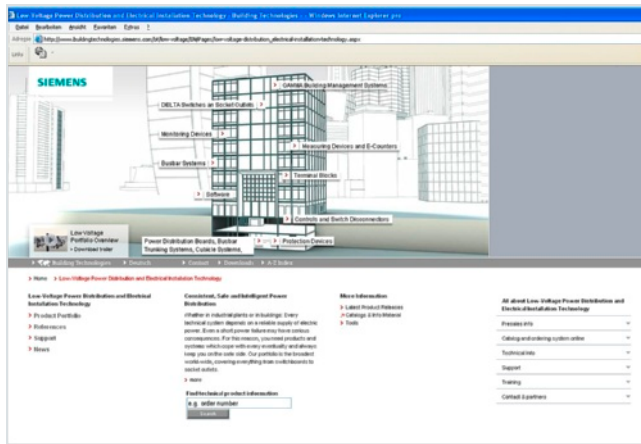
To guarantee the maximum possible safety in these areas, the legislators of most countries have drawn up requirements in the form of laws, regulations and standards. In the course of globalization, great progress has been made with regard to uniform directives for explosion protection.

With Directive 94/9/EC, the European Union laid the foundations for complete harmonization by requiring that all new devices as from 1st July 2003 have to be approved in accordance with this directive.

In this catalog, special attention is drawn to devices which comply with the ATEX Directive. However, it does not replace intensive study of the relevant fundamentals and directives when planning and installing electrical systems.



Overview



We regard product support as just as important as the products and systems themselves.

Visit our site on the Internet for a comprehensive offering of support for low-voltage power distribution and electrical installation products, such as

- Operating instructions and manuals for direct download
- Online registration for seminars and events
- Up-to-date answers to your queries and problems
- Software upgrades and updates for fast download
- Telephone assistance in more than 190 countries
- Photos and graphics for external use

and much more - all conveniently and easily accessible.

Address:

www.siemens.com/lowvoltage

You will find regularly updated information material such as catalogues, customer magazines, brochures and trial versions of software for low-voltage power distribution and electrical installation on the Internet at:

www.siemens.com/lowvoltage/infomaterial

Here, you can order your copy of the available documentation or download it in common file formats (PDF, ZIP).

For your configuration systems we can provide technical and graphic data in electronic form for the range of low-voltage power distribution and electrical installation products:

CAx online generator

For the further processing of low-voltage power distribution and electrical installation products in CAE/CAD systems the online generator provides:

- Technical product master data in CSV and Excel format
- Graphic product data
 - 2D dimensional drawings in DXF format (other formats optional)
 - 3D models in STEP format
 - Internal circuit diagrams
 - EPLAN electric P 8 macros
- Documentation in the form of PDF files
 - Product data sheets
 - Manuals
 - Operating instructions
 - Characteristic curves
 - Certificates
- Product photos
- Texts for tenders in GAEB and Text format.

www.siemens.com/cax

Quality management

Overview

The quality management system of our IC LMV LV Business Unit complies with the international standard ISO 9001.

The products and systems listed in this catalog are marketed using a VDE-approved quality management system according to ISO 9001.

VDE certificate

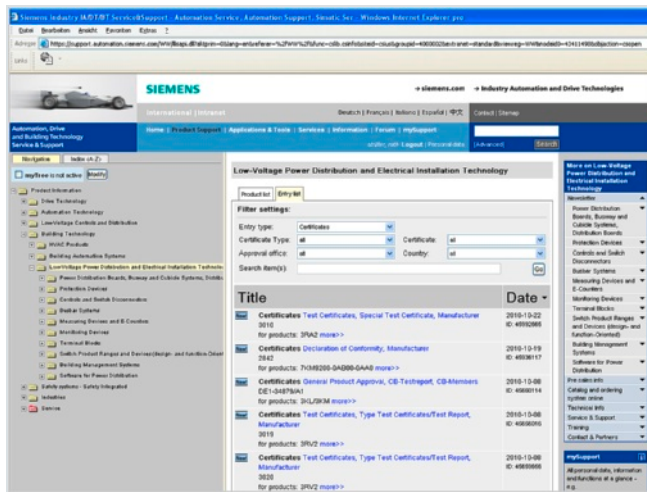
Siemens AG
Infrastructure & Cities Sector
Low and Medium Voltage Division
Low Voltage
Reg. No.: 40017/QM/03.06

Certificates

Information on the certificates available (CE, UL, CSA, FM, shipping authorizations) for low-voltage power distribution and electrical installation products can be found on the Internet at:

www.siemens.com/lowvoltage/support

In the Entry List you can use the certificate type (general product approval, explosion protection, test certificates, shipbuilding,...) as a filter criterion.

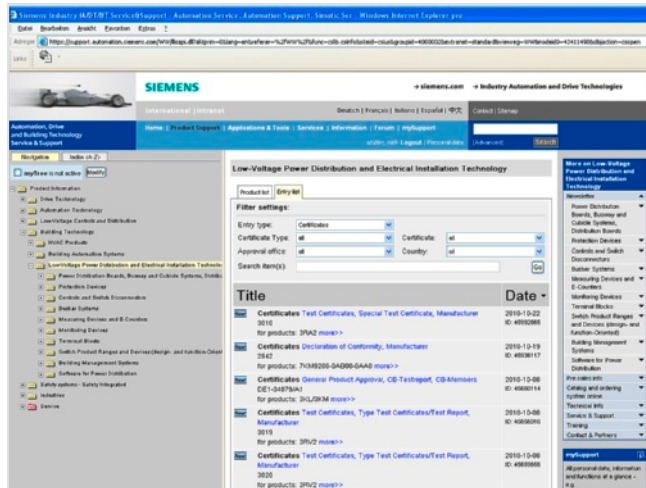


Overview

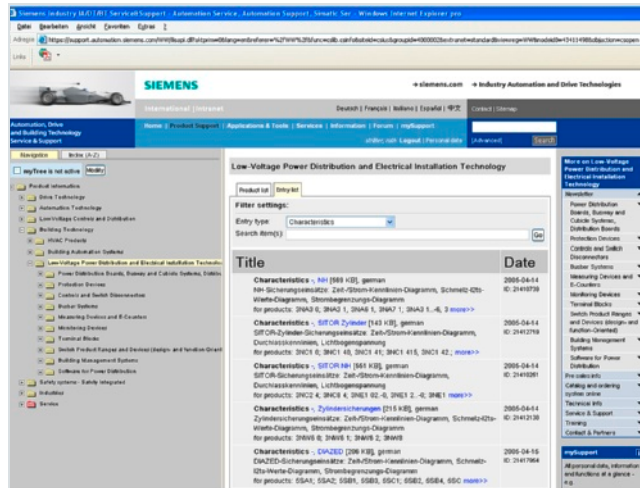
Approvals, test certificates, characteristic curves

An overview of the certificates available for low-voltage power distribution and electrical installation products along with more technical documentation can be consulted daily on the Internet at:

www.siemens.com/lowvoltage/support



Product support: Approvals / Certificates



Product support: Characteristic curves

Product standards (excerpt)

IEC	EN	DIN VDE	Title
60947-1	60947-1	--	Low-voltage controlgear and switchgear: General requirements
60947-2	60947-2	--	• Circuit breakers
60947-3	60947-3	--	• Load-break switches, disconnectors, switch disconnectors and fuse-combination units
60947-4-1	60947-4-1	--	• Contactors and motor starters: Electromechanical contactors and motor starters
60947-4-2	60947-4-2	--	• Contactors and motor starters: Semiconductor motor controllers and starters, soft starters
60947-4-3	60947-4-3	--	• AC semiconductor controllers and contactors for non-motor loads
60947-5-1	60947-5-1	--	• Control devices and switching elements: Electromechanical control circuit devices
60947-5-2	60947-5-2	--	• Control devices and switching elements: Proximity switches
60947-5-3	60947-5-3	--	• Proximity switches (specific behavior under fault conditions)
60947-5-5	60947-5-5	--	• EMERGENCY-STOP devices with mechanical latching
60947-5-6	60947-5-6	--	• Control devices and switching elements - DC interface for proximity switches and switching amplifier (NAMUR)
60947-5-7	60947-5-7	--	• Requirements for proximity switches with analog output
60947-5-8	60947-5-8	--	• Approval switches
60947-5-9	60947-5-9	--	• Flow sensors
60947-6-1	60947-6-1	--	• Multifunctional switching device: Transfer switches
60947-6-2	60947-6-2	--	• Multifunctional switching device: Control and protection switching device (CPS)
60947-7-1	60947-7-1	--	• Ancillary equipment: Terminal blocks for copper conductors
60947-7-2	60947-7-2	--	• Ancillary equipment: Protective conductor for copper conductors
60947-7-3	60947-7-3	--	• Ancillary equipment: Safety requirements for terminal blocks
60947-8	60947-8	--	• Releases for the integrated thermal Protection (PTC) of rotating electric machines
62026-2	50295	--	Low-voltage controlgear and switchgear: Actuator-Sensor Interface (AS-i)
60269-1	60269-1	--	Low-voltage fuses: General requirements
60269-4	60269-4	--	Low-voltage fuses: Supplementary requirements for fuse links for protecting semiconductor components
60050-441	--	--	International dictionary/switchgear and/or switching devices and fuses
60439-1	60439-1	--	Low-voltage switchgear assemblies: Type-tested and partially type-tested assemblies
60439-3	60439-3	--	Low-voltage switchgear assemblies – distribution boards
61439-1	61439-1	0660-600-1	Low-voltage switchgear assemblies – General part
61439-2	61439-2	0660-600-2	Low-voltage switchgear assemblies – Power switchgear assemblies
--	50274	--	Low-voltage switchgear assemblies - Protection from electric shock - Protection from accidental touching of dangerous active parts
61140	61140	--	Protection from electric shock - General requirements for apparatus and equipment
60664-1	60664-1	--	Insulation coordination for electrical equipment in low-voltage systems; Principles, requirements and tests

Standards and approvals

IEC	EN	DIN VDE	Title
60204-1	60204-1	--	Electrical equipment of machines: General requirements
--	50178	--	Equipment of electrical power installations with electronic equipment
60079-14	60079-14	--	Electrical apparatus for potentially explosive gas atmospheres Installing electrical apparatus in potentially explosive gas atmospheres (except mining)
60079-2	60079-2	--	Electrical equipment for potentially explosive gas atmospheres - Part 2 Pressurized enclosures M "p"
61810-1	61810-1	--	Electromechanical elementary relays (electromechanical switching relays without a fixed time response); General and safety-related requirements
61812-1	61812-1	--	Relays with a fixed time response (timing relays) for industrial applications - Part 1: Requirements and tests
60999-1	60999-1	--	Connecting materials - Safety requirements for screw terminals and screwless clamping points for electrical copper conductors - Part 1: General requirements and special requirements for clamping points for conductors from 0.2 mm ² to 35 mm ²
61000-4-1	61000-4-1	--	Electromagnetic compatibility (EMC) - Part 4: Testing and measuring techniques; Main Section 1: Overview of measuring techniques for interference immunity; Basic EMC standard
61000-6-3	61000-6-3	--	Electromagnetic compatibility (EMC); Basic specification for emitted interference in residential and commercial environments as well as in light industry
61000-6-4	61000-6-4	--	Electromagnetic compatibility (EMC); Basic specification for emitted interference in industrial environments
60044-1	60044-1	--	Measuring transducers: Current transformers

UL	CSA C22.2	ASME	JIS	Title
508	--	--	--	Industrial control equipment
489	--	--	--	Molded case circuit breakers, molded case switches and circuit breaker enclosures
1012	--	--	--	Power units other than CLASS 2
1561	--	--	--	Dry-type general purpose and power transformers
60601-1	--	--	--	Medical electrical equipment, Part 1: General requirements for safety (IEC 60601, EN 60601, VDE 0750-1)
1604	--	--	--	Electrical equipment for use in CLASS I and II, Division 2 and CLASS III hazardous (Classified) locations
1059	--	--	--	Terminal blocks
486A-486B	--	--	--	Wire connectors
486E	--	--	--	Equipment wiring terminals for use with aluminum and/or copper conductors
50	--	--	--	Enclosures for electrical equipment. Non-environmental considerations
--	No. 66	--	--	Specialty transformers
--	No. 14	--	--	Industrial control equipment
--	No. 5	--	--	Molded case circuit breakers, molded case switches and circuit breaker enclosures
--	No. 107-1	--	--	General use power supplies
--	--	A17.5 / B 44.1	--	Elevator and escalator electrical equipment
--	--	--	C 8201-4-1	Low-voltage switchgear and controlgear; Contactors and motor-starters

Approval requirements valid in different countries

Siemens low-voltage switchgear and controlgear are designed, manufactured and tested according to the relevant German standards (DIN and VDE), IEC publications and European standards (EN) as well as CSA and UL standards. The standards assigned to the single devices are stated in the relevant parts of this catalog.

As far as is economically viable, in addition to the pertinent VDE, EN and IEC standards, the requirements of the various regulations valid in other countries are also taken into account in the design of the equipment.

In some countries (see table below), an approval is required for certain low-voltage switchgear and controlgear components.

Depending on the market requirements, these devices have been submitted for approval to the authorized testing institutes.

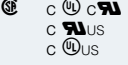


In some cases, CSA for Canada and UL for the USA only approve special switchgear versions. Such special versions are listed separately from the standard versions in the individual parts of this catalog.

For this equipment, partial limitations of the maximum permissible voltages, currents and rated outputs can be imposed, or special approval and, in some cases, special identification is required.

For use on board ship, the specifications of the marine classification societies must be observed (see table below). In some cases, they require type tests of the components to be approved.

The present state of approval is shown in the "Type overview of approved devices" tables on page 12/13.

Testing bodies, approval identification and approval requirements

	Canada ¹⁾	USA ¹⁾	China
Government-appointed or private, officially recognized testing bodies	CSA UL (USA)	UL	CQC
Approval symbol			
Approval requirements	+	+	+
Remarks	UL and CSA are authorized to grant approvals according to Canadian or US regulations. Please note: These approvals are frequently not recognized and additional approval often has to be obtained from the national testing authority.		CCC

For more information about UL and CSA see 12/11.

¹⁾ For guide numbers and file numbers for the approvals, visit our website at www.siemens.com/lowvoltage/support

Marine classification societies

	Germany	United Kingdom	France	Norway	CIS	Italy	Poland	USA
Name	Germanischer Lloyd	Lloyds Register of Shipping	Bureau Veritas	Det Norske Veritas	Russian Maritime Register of Shipping	Registro Italiano Navale	Polski Rejestr Statków	American Bureau of Shipping
Codes	GL	LRS	BV	DNV	RMRS	RINA	PRS	ABS


CE marking

Manufacturers of products which fall within the scope of EC directives must identify their products, operating instructions or packaging with a CE mark.

The CE mark confirms that a product fulfills the appropriate basic requirements of all pertinent directives. The mark is a mandatory requirement for putting products into circulation throughout the EC.

All the products in this catalog are in conformance with the EC directives and bear the CE mark.

- Low-voltage directive
- EMC directive
- Machinery directive
- Ex protection directive

The CE mark of conformity: .

Accident prevention

Test certificates and approvals from the BIA (German statutory industrial accident insurance institution in Bonn) and from SUVA (Swiss institute for accident prevention) are available for some devices in safety control systems. For details, see the respective product descriptions.

Special standards, for example the USA and Canada

In the USA and Canada, for machine tools and processing machines in particular, supply lines are laid using rubber insulated cable enclosed in heavy-duty steel piping similar to that used for gas or water pipe systems.

The tubing system must be completely watertight and electrically conductive (especially sleeving and elbows). Since the tubing system can also be grounded, the cable entries of enclosed units equipped with heavy-gauge or metric threads must be fitted with metal adapters between these threads and the tube thread. The necessary adapters are specified for the switchgear as accessories; they should be ordered separately unless otherwise specified.











Low-voltage switchgear and controlgear for auxiliary circuits (e.g. contactor relays, commanding and signaling devices and auxiliary switches/auxiliary contacts in general) are generally only approved by CSA and UL for "**Heavy Duty**" or "**Standard Duty**" and are identified either with these specifications in addition to the maximum permissible voltage or by using an abbreviation.

The abbreviations are harmonized with IEC 60947-5-1 Appendix 1 Table A.1 and correspond to the stated utilization categories.

For various switching devices detailed in the catalog, a note has been included to the effect that, above a certain voltage, the auxiliary switches/auxiliary contacts can only be used if they have the same polarity. This means that the input terminals can only be connected to the same pole of the control voltage, e. g. "600 V AC above 300 V AC same polarity".

Standards and approvals

Different features of UL approvals (for USA and Canada)

Recognized Component	Listed Product
Devices are identified on the rating plate using the "UL recognition mark": USA:  ,  Canada:  , 	Devices are identified using the "UL listing mark" on the rating plate e. g. USA:  LISTED 165 C Canada:  LISTED 165 C IND. CONT. EQ. IND. CONT. EQ. (165 C stands for: Siemens, I IA CD Division, Amberg plant)
Devices are approved as modules for "factory wiring", i. e.: as devices for installation in control systems, which are selected, installed, wired and tested entirely by trained personnel in factories, workshops or elsewhere, according to the operating conditions .	Devices are approved for "field wiring", i. e.: <ul style="list-style-type: none"> • As devices for installation in control systems, which are completely wired by trained personnel in factories, workshops or elsewhere. • As single devices for sale in retail outlets in the USA/Canada.
If devices are  or  approved as "listed products", they are also approved as  or  "recognized components".	

For more information about UL and CSA see 12/10.

Special standards, for example Russia**GOST approval for Russia**

A GOST approval is required for all products that are to be sold in Russia. The GOST mark has been obligatory on the packaging of all devices since mid-1998.

All devices delivered to any part of the Russian Federation must have this customs certification.

Type overview of approved devices

8WA and 8WH screw terminals

Type	Approvals										Marine classifications							
	Canada 1) 2)		USA 1)		China 3)	Czech Rep- lic	Slova- kia	Po- land	Hungary	Germany	United Kingdom	France	Norway	CIS	Italy	Poland	USA	
	©	cULus	®	c@us														UL
Terminal blocks⁴⁾																		
8WA1 010-1PH01	+	--	--	--	--	--	--	+	--	--	+	--	--	--	--	--	--	
8WA1 010-1PQ00	+	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
8WA1 011-0D	+	--	--	--	+	--	+	+	--	+	+	+	+	--	--	+	+	
8WA1 011-1BF21	+	--	--	--	+	--	+	+	--	+	+	+	+	--	--	+	+	
8WA1 011-1BF22	+	--	--	--	+	--	+	+	--	+	+	+	+	--	--	+	+	
8WA1 011-1BF23	+	--	--	--	+	--	+	+	--	+	+	+	+	--	--	+	+	
8WA1 011-1BF24	+	--	--	--	+	--	--	--	--	+	+	+	+	--	--	--	+	
8WA1 011-1BF25	+	--	--	--	+	--	--	--	--	--	--	--	--	--	--	--	--	
8WA1 011-1BG11	+	--	--	--	+	--	+	+	--	+	+	+	+	--	--	+	+	
8WA1 011-1BG21	+	--	--	--	+	--	+	+	--	+	+	+	+	--	--	+	+	
8WA1 011-1BG22	+	--	--	--	+	--	+	+	--	+	+	+	+	--	--	+	+	
8WA1 011-1BG24	+	--	--	--	+	--	--	--	--	+	+	+	+	--	--	--	+	
8WA1 011-1BH23	+	--	--	--	+	--	+	+	--	+	+	+	+	--	--	--	+	
8WA1 011-1BH24	+	--	--	--	+	--	--	--	--	+	+	+	+	--	--	--	+	
8WA1 011-1BK11	+	--	--	--	+	--	+	+	--	+	+	+	+	--	--	+	+	
8WA1 011-1BM11	+	--	--	--	+	--	+	+	--	+	+	+	+	--	--	+	+	
8WA1 011-1BP11	--	--	--	--	--	--	+	+	--	+	+	+	+	--	--	+	+	
8WA1 011-1DF11	+	--	--	--	+	--	+	+	--	+	+	+	+	--	--	+	+	
8WA1 011-1DG11	+	--	--	--	+	--	+	+	--	+	+	+	+	--	--	+	+	
8WA1 011-1DH11	+	--	--	--	+	--	+	+	--	+	+	+	+	--	--	+	+	
8WA1 011-1EF20	--	--	--	--	--	--	+	--	--	+	--	--	--	--	--	+	--	
8WA1 011-1MH1.	+ ⁵⁾	--	--	--	+	--	+	+	--	+	+	+	+	--	--	+	+	
8WA1 011-1EF28	--	--	--	--	--	--	--	--	--	+	--	--	--	--	--	--	--	
8WA1 011-1NF01	+	--	--	--	+	--	+	+	--	+	+	+	+	--	--	+	+	
8WA1 011-1NF02	+	--	--	--	+	--	--	--	--	+	+	+	+	--	--	+	+	
8WA1 011-1NG31	+	--	--	--	+	--	--	--	--	+	+	+	+	--	--	+	+	
8WA1 011-1NG32	+	--	--	--	+	--	--	--	--	+	+	+	+	--	--	+	+	

+ Standard version approved.

-- Not yet submitted for approval.

1) For guide numbers and file numbers for approvals, please visit www.siemens.com/lowvoltage/support and select "Product Support".

2) c© and cULus approvals are available in accordance with US approval.

3) Not required for terminal blocks.

4) For © and UL nominal data of the terminal blocks, please refer to the [Technical specifications](#).

5) 600 A, 5 A, Type D or 300 V, Type C.

Further certifications and approvals available on request.

Standards and approvals

Type	Approvals							Marine classifications							
	Canada 1) 2)	USA 1) 1)		Czech Repub- lic	Slovakia	Poland	Hungary	Germany	United Kingdom	France	Norway	CIS	Italy	Poland	USA
	Ⓢ	Ⓢ	UL	EZU	SKTC	SEP	MEEI	GL	LRS	BV	DNV	RMRS	RINA	PRS	ABS
Reihenklemmen³⁾															
8WA1 011-1NH01	+	--	+	+	+	--	+	+	+	+	+	--	--	+	+
8WA1 011-1NH02	+	--	+	--	--	--	--	+	+	+	+	--	--	+	+
8WA1 011-1NK02	--	--	--	--	+	--	--	+	+	+	+	--	--	+	+
8WA1 011-1PF00	+	--	+	+	+	--	+	+	+	+	+	--	--	+	+
8WA1 011-1PF01	+	--	+	+	+	--	+	+	+	+	+	--	--	+	+
8WA1 011-1PF11	+	--	+	+	+	--	+	+	+	+	+	--	--	+	+
8WA1 011-1PG00	+	--	+	+	+	--	+	+	+	+	+	--	--	+	+
8WA1 011-1PG01	+	--	+	+	+	--	+	+	+	+	+	--	--	+	+
8WA1 011-1PG11	+	--	+	+	+	--	+	+	+	+	+	--	--	+	+
8WA1 011-1PH00	+	--	+	+	+	--	+	+	+	+	+	--	--	+	+
8WA1 011-1PH11	+	--	+	+	+	--	+	+	+	+	+	--	--	+	+
8WA1 011-1PK00	+	--	+	--	+	--	+	+	+	+	+	--	--	+	+
8WA1 011-1PM00	+	--	+	--	--	--	+	+	+	+	+	--	--	+	+
8WA1 011-1SF12	+	--	+	+	+	--	+	+	+	+	+	--	--	+	+
8WA1 011-1SF2.	+	--	+	--	+	--	--	--	--	--	--	--	--	+	--
8WA1 011-2BG11	+	--	+	+	--	--	--	+	+	+	+	--	--	+	+
8WA1 011-2DG11	+	--	+	+	+	--	+	+	+	+	+	--	--	+	+
8WA1 011-2SF2.	+	--	+	--	+	--	--	--	--	--	--	--	--	+	--
8WA1 011-3D.21	+	--	+	+	+	--	+	+	+	+	+	--	--	+	+
8WA1 011-3JF16 bis	+	--	+	+	+	--	+	--	--	--	--	--	--	--	--
8WA1 011-3JF20	+	--	+	+	+	--	+	--	--	--	--	--	--	--	--
8WA1 011-6BG11	+	--	+	+	--	--	--	+	+	+	+	--	--	+	+
8WA1 011-6DG11	+	--	+	+	+	--	+	+	+	+	+	--	--	+	+
8WA1 011-6EG..	--	--	+	+	+	--	+	--	--	--	--	--	--	+	--
8WA1 012-1DK10	--	--	+	--	--	--	--	--	--	--	--	--	--	--	--
8WA1 012-1D.14	+	--	+	--	--	--	--	--	--	--	--	--	--	--	--
8WA1 204 bis	+	--	+	+	+	--	+	+	+	+	+	--	--	+	+
8WA1 206	+	--	+	+	+	--	+	+	+	+	+	--	--	+	+
8WA1 211	--	--	--	--	+	--	--	--	--	--	--	--	--	+	--
8WA1 221	--	--	--	--	+	--	--	--	--	--	--	--	--	+	--
8WA1 232	--	--	+	--	+	--	--	--	--	--	--	--	--	+	--
8WA1 304	+	--	+	+	+	--	+	+	+	+	+	--	--	+	+
8WA1 305	+	--	+	+	+	--	+	+	+	+	+	--	--	+	+
8WA1 501	+	--	+	--	--	--	--	--	--	--	--	--	--	--	--
8WA1 604	--	--	+	+	+	--	+	+	+	+	+	--	--	+	+
8WA2 011-3KE..	+	--	+	--	--	--	--	--	--	--	--	--	--	--	--
8WH	www.siemens.de/lowvoltage/support														

+ Standard version approved.
 -- Not yet submitted for approval.

Further certifications and approvals available on request.

1) For guide numbers and file numbers for approvals, please visit www.siemens.com/lowvoltage/support and select "Product Support".

2) cⓈ and cUL approvals are available in accordance with US approval.

3) For Ⓢ and UL nominal data of the terminal blocks, please refer to the [Technical specifications](#).

More information

You can find more information about standards and approvals at www.siemens.com/lowvoltage/support

If you have any questions concerning UL/CSA approvals, contact Technical Support, Tel.: +49 (911) 8957222.

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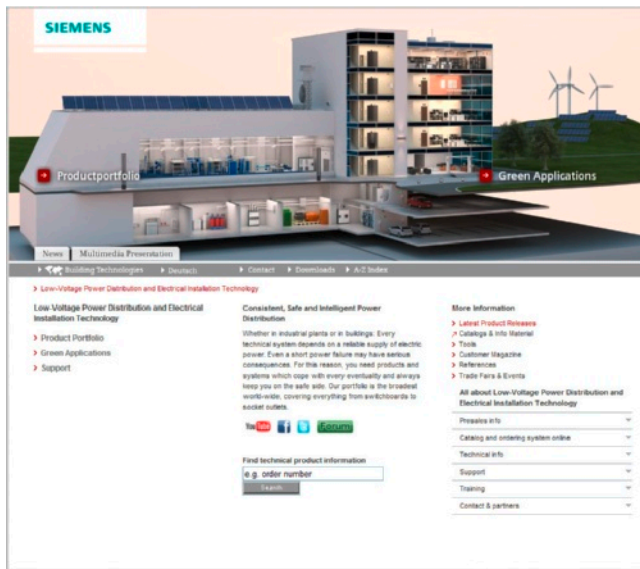
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Appendix Online Services

Information and ordering
in the Internet and on DVD

Low-Voltage Power Distribution and Electrical Installation Technology on the WWW

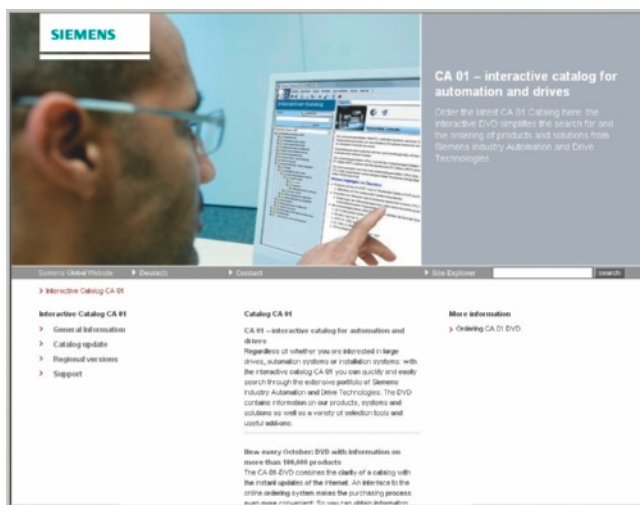


Siemens low-voltage power distribution and electrical installation technology offers switchboards, busbar trunking systems, distribution boards as well as protection, switching, measuring and monitoring devices, building management systems, switches and socket outlets. The consistency, modularity and intelligence of our components and systems offer you numerous advantages – throughout their service life and wherever you are in the world. We deliver trendsetting designs and innovative functions in unique quality, developed in accordance with the applicable international standards.

Comprehensive information about all products and systems as well as service and support is available in a compact and clear format on the Internet at:

www.siemens.com/lowvoltage

Product selection using the interactive catalog CA 01 of Industry



Detailed information together with convenient interactive functions:

The interactive catalog CA 01 covers more than 80 000 products and thus provides a full summary of the Siemens Industry Automation and Drive Technologies product base.

Here you will find everything that you need to solve tasks in the fields of automation, switchgear, installation and drives. All information is linked into a user interface which is easy to work with and intuitive.

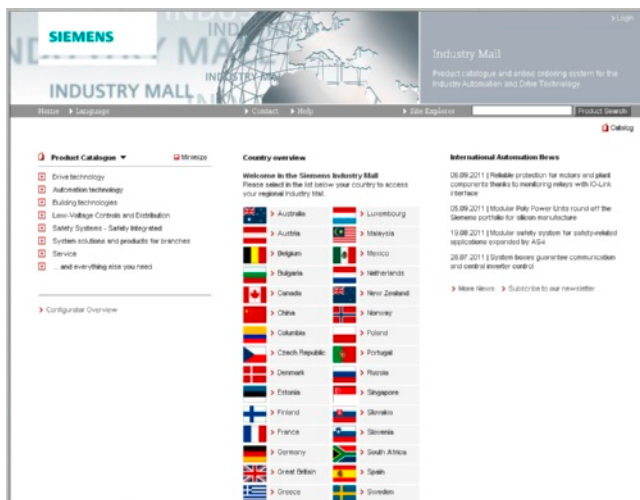
After selecting the product of your choice you can order at the press of a button, by fax or by online link.

Information on the interactive catalog CA 01 can be found on the Internet under

www.siemens.com/automation/ca01

or on DVD.

Easy Shopping with the Industry Mall



The Industry Mall is the virtual department store of Siemens AG on the Internet. Here you have access to a huge range of products presented in electronic catalogs in an informative and attractive way.

Data transfer via EDIFACT allows the whole procedure from selection through ordering to tracking of the order to be carried out online via the Internet.

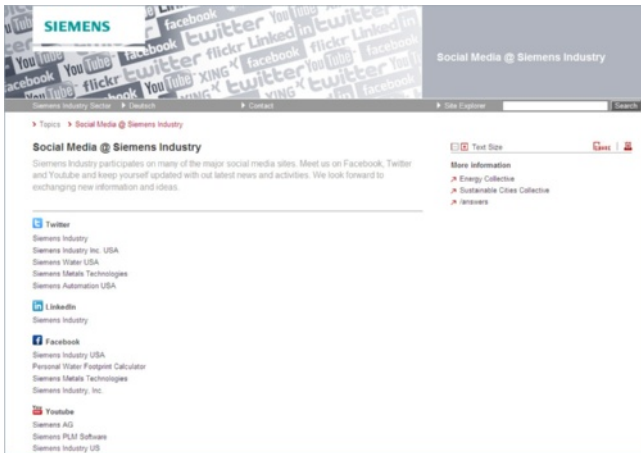
Numerous functions are available to support you.

For example, powerful search functions make it easy to find the required products, which can be immediately checked for availability. Customer-specific discounts and preparation of quotes can be carried out online as well as order tracking and tracing.

Please visit the Industry Mall on the Internet under:

www.siemens.com/industrymall

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Connect with Siemens Industry at our central access point:

www.siemens.com/industry/socialmedia

Or via our product pages at:

www.siemens.com/automation

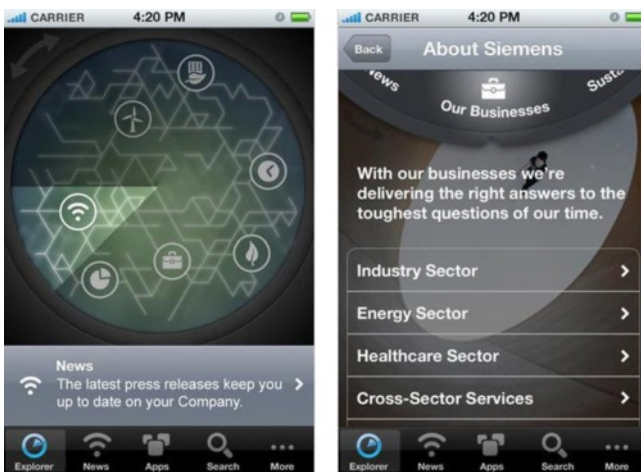
or

www.siemens.com/drives

To find out more about Siemens' current social media activities visit us at:

www.siemens.com/socialmedia

Mobile Media

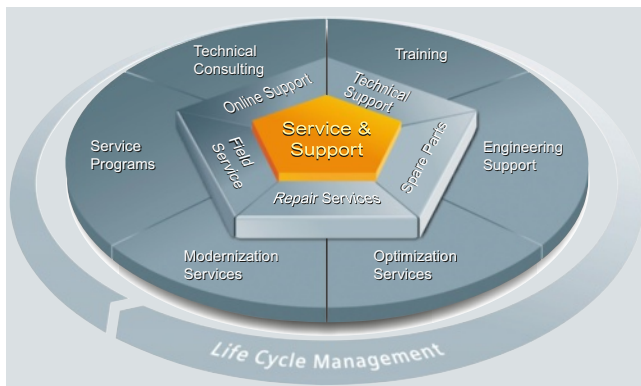


We are also constantly expanding our offering of cross-platform apps for smartphones and tablets. You will find the current Siemens apps at your app store.

Appendix

Service & Support

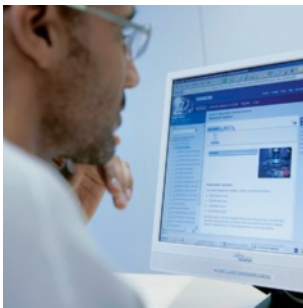
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You can obtain qualified, free support to help you produce specifications for technically equipping non-residential and industrial buildings at

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Overview

Product information

Website	Fast, targeted information on low-voltage power distribution: www.siemens.com/lowvoltage
Newsletter	Always up to date about our trend-setting products and systems: www.siemens.com/lowvoltage/newsletter

Product information/product & system selection

Information and Download Center	Current catalogs, customer magazines, brochures, demo software and promotion packages: www.siemens.com/lowvoltage/infomaterial
Industry Mall	Comprehensive information and order platform for the Siemens Industry Basket: www.siemens.com/lowvoltage/mall

Product & system engineering

SIMARIS software tools	Support in planning and configuration the electrical power distribution: www.siemens.com/simaris
ALPHA SELECT engineering software	Simple and fast configuration for distribution boards and metre cabinets with products from the Siemens Industry Basket: www.siemens.com/alpha-select

Product documentation

Service & Support portal	Comprehensive technical information - from planning to configuration and operation: www.siemens.com/lowvoltage/support
CAx Data	Collation of commercial and technical master product data: www.siemens.com/cax
Image database	Collection of product photographs and graphics, such as dimensional drawings and internal circuit diagrams: www.siemens.com/lowvoltage/bilddb

Product training

SITRAIN portal	Comprehensive training program about our products, systems and engineering tools: www.siemens.com/lowvoltage/training
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Product hotline

Technical Support	Support for all technical queries about our products: E-mail: support.automation@siemens.com www.siemens.com/lowvoltage/technical-support
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Software Licenses

Overview

Software types

Software requiring a license is categorized into types. The following software types have been defined:

- Engineering software
- Runtime software

Engineering software

This includes all software products for creating (engineering) user software, e.g. for configuring, programming, parameterizing, testing, commissioning or servicing.

Data generated with engineering software and executable programs can be duplicated for your own use or for use by third-parties free-of-charge.

Runtime software

This includes all software products required for plant/machine operation, e.g. operating system, basic system, system expansions, drivers, etc.

The duplication of the runtime software and executable programs created with the runtime software for your own use or for use by third-parties is subject to a charge.

You can find information about license fees according to use in the ordering data (e.g. in the catalog). Examples of categories of use include per CPU, per installation, per channel, per instance, per axis, per control loop, per variable, etc.

Information about extended rights of use for parameterization/configuration tools supplied as integral components of the scope of delivery can be found in the readme file supplied with the relevant product(s).

License types

Siemens Industry Automation & Drive Technologies offers various types of software license:

- Floating license
- Single license
- Rental license
- Rental floating license
- Trial license
- Demo license
- Demo floating license

Floating license

The software may be installed for internal use on any number of devices by the licensee. Only the concurrent user is licensed. The concurrent user is the person using the program. Use begins when the software is started.

A license is required for each concurrent user.

Single license

Unlike the floating license, a single license permits only one installation of the software per license.

The type of use licensed is specified in the ordering data and in the Certificate of License (CoL). Types of use include for example per instance, per axis, per channel, etc.

One single license is required for each type of use defined.

Rental license

A rental license supports the "sporadic use" of engineering software. Once the license key has been installed, the software can be used for a specific period of time (the operating hours do not have to be consecutive).

One license is required for each installation of the software.

Rental floating license

The rental floating license corresponds to the rental license, except that a license is not required for each installation of the software. Rather, one license is required per object (for example, user or device).

Trial license

A trial license supports "short-term use" of the software in a non-productive context, e.g. for testing and evaluation purposes. It can be transferred to another license.

Demo license

The demo license support the "sporadic use" of engineering software in a non-productive context, for example, use for testing and evaluation purposes. It can be transferred to another license. After the installation of the license key, the software can be operated for a specific period of time, whereby usage can be interrupted as often as required.

One license is required per installation of the software.

Demo floating license

The demo floating license corresponds to the demo license, except that a license is not required for each installation of the software. Rather, one license is required per object (for example, user or device).

Certificate of license (CoL)

The CoL is the licensee's proof that the use of the software has been licensed by Siemens. A CoL is required for every type of use and must be kept in a safe place.

Downgrading

The licensee is permitted to use the software or an earlier version/release of the software, provided that the licensee owns such a version/release and its use is technically feasible.

Delivery versions

Software is constantly being updated.

The following delivery versions

- PowerPack
- Upgrade

can be used to access updates.

Existing bug fixes are supplied with the ServicePack version.

PowerPack

PowerPacks can be used to upgrade to more powerful software. The licensee receives a new license agreement and CoL (Certificate of License) with the PowerPack. This CoL, together with the CoL for the original product, proves that the new software is licensed.

A separate PowerPack must be purchased for each original license of the software to be replaced.

Upgrade

An upgrade permits the use of a new version of the software on the condition that a license for a previous version of the product is already held.

The licensee receives a new license agreement and CoL with the upgrade. This CoL, together with the CoL for the previous product, proves that the new version is licensed.

A separate upgrade must be purchased for each original license of the software to be upgraded.

Software Licenses

ServicePack

ServicePacks are used to debug existing products. ServicePacks may be duplicated for use as prescribed according to the number of existing original licenses.

License key

Siemens Industry Automation & Drive Technologies supplies software products with and without license keys.

The license key serves as an electronic license stamp and is also the "switch" for activating the software (floating license, rental license, etc.).

The complete installation of software products requiring license keys includes the program to be licensed (the software) and the license key (which represents the license).

Software Update Service (SUS)

As part of the SUS contract, all software updates for the respective product are made available to you free of charge for a period of one year from the invoice date. The contract will automatically be extended for one year if it is not canceled three months before it expires.

The possession of the current version of the respective software is a basic condition for entering into an SUS contract.

You can download explanations concerning license conditions from www.siemens.com/automation/salesmaterial-as/catalog/en/terms_of_trade_en.pdf

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8WH9 064	4/17	N	N
8WH9 064-5B	7/6 ... 7	N	N
8WH9 065	4/17, 7/7	N	N
8WH9 066	4/17, 7/7	N	N
8WH9 067	4/17, 7/7	N	N
8WH9 070-OA	2/6 ... 7, 2/10, 2/12, 4/17, 4/22, 4/24, 4/26, 5/6	N	N
8WH9 070-OB	2/14, 4/32, 4/40	N	N
8WH9 070-OD	4/17	N	N

Appendix

Order number index incl. export markings

Order No.	Page	Export markings	
		ECCN	AL
8WH9 070-0G	2/6 ... 7, 2/12, 4/17, 4/24, 4/26, 4/38	N	N
8WH9 070-0H	2/6 ... 7, 4/17, 4/24, 4/26, 5/6 ... 7	N	N
8WH9 070-0J	6/8	N	N
8WH9 070-0K	4/22, 6/8, 6/12	N	N
8WH9 070-0L	6/8	N	N
8WH9 070-0M	6/10	N	N
8WH9 070-6B	7/6 ... 7	N	N
8WH9 070-6F	7/14, 7/16, 7/19	N	N
8WH9 070-6G	3/7	N	N
8WH9 070-6H	3/7	N	N
8WH9 076	7/7	N	N
8WH9 12	3/11	N	N
8WH9 120	5/10, 7/23	N	N
8WH9 13	7/25 ... 26	N	N
8WH9 140	7/27	N	N
8WH9 141	3/11	N	N
8WH9 142	3/14	N	N
8WH9 143	3/5, 3/9	N	N
8WH9 15	8/8	N	N
8WH9 16	7/14, 7/16, 7/19	N	N
8WH9 2	8/9	N	N

Appendix

Notes

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Conditions of sale and delivery

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- the text of the Comprehensive Terms and Conditions of Sale and Delivery of Siemens AG

in the Internet under

www.siemens.com/automation/salesmaterial-as/catalog/en/terms_of_trade_en.pdf

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		Safety Integrated Safety Technology for Factory Automation	SI 10
		SIMATIC HMI/PC-based Automation Human Machine Interface Systems/ PC-based Automation	ST 80/ ST PC
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		SIMATIC NET Industrial Communication	IK PI
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