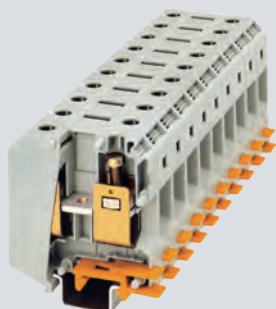


8WH1 Screw Terminals



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.support.automation.siemens.com

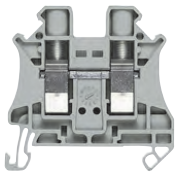

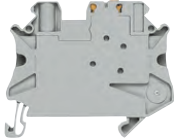
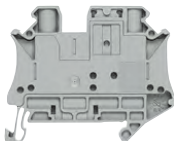
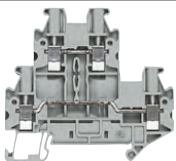
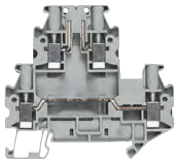
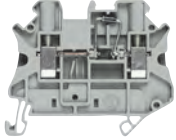
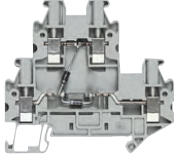


Product List:
Technical specifications

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

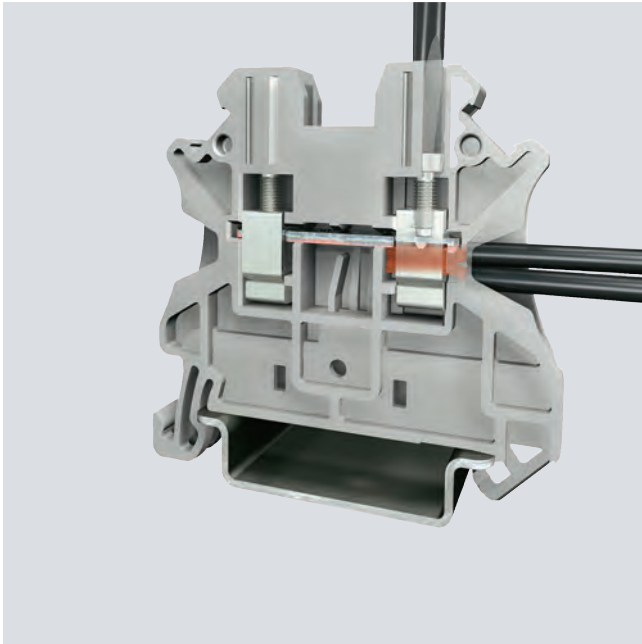
8WH1 Screw Terminals

Introduction

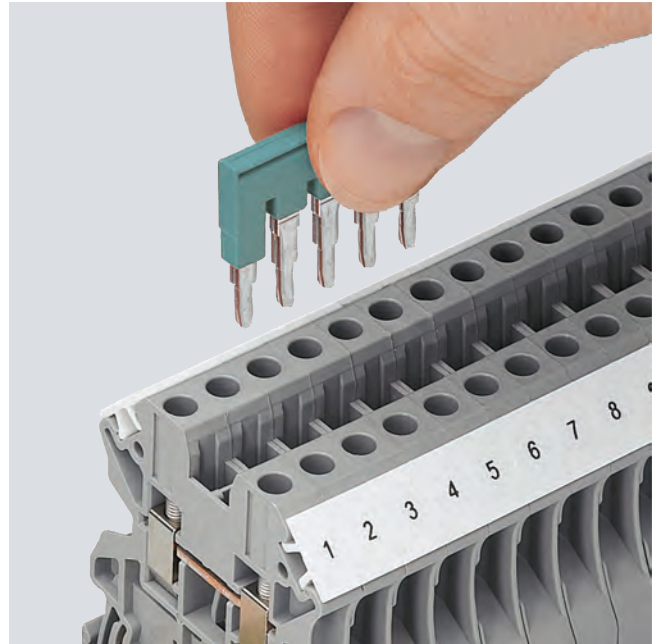
Overview

	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

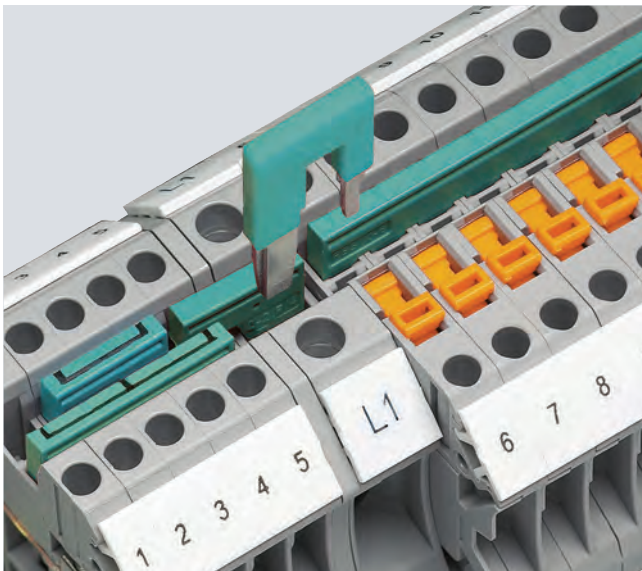
Overview



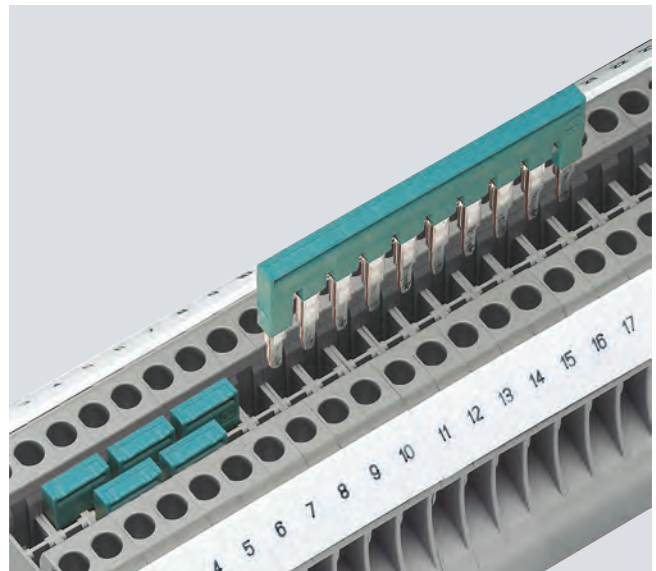
The screw terminal is characterized by its global standard, multi-conductor connection and maintenance-free design.



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.

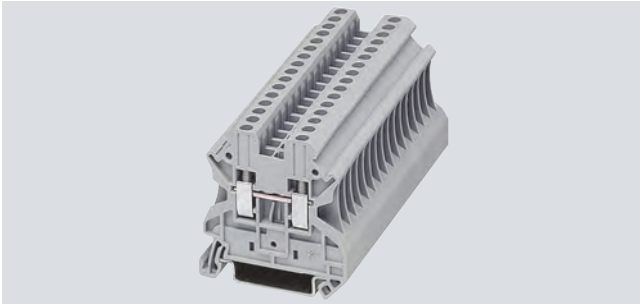


The double bridge shaft enables an assembly of any number of terminals with two-pole jumpers. The 2-pole to 50-pole jumpers enable up to 50 terminals to be connected in a single step.

8WH1 Screw Terminals

8WH through-type terminals

Overview



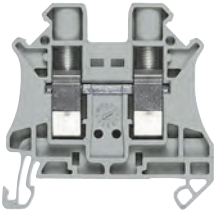

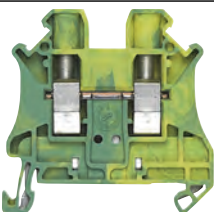

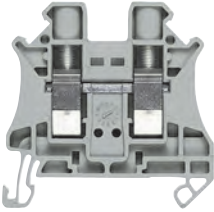

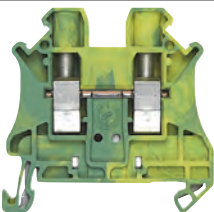

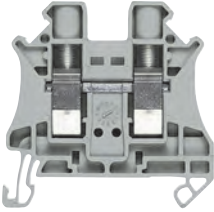

8WH through-type terminals are characterized by their compact design and optimum handling. They are available in conductor cross-section areas from 2.5 to 35 mm² and can be inscribed with labels. The double bridge shaft enables individual chain bridging by means of standard connecting combs. Corresponding 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

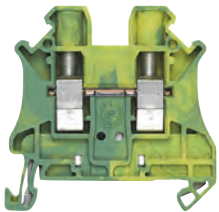


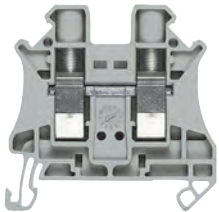


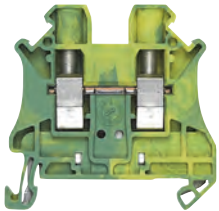


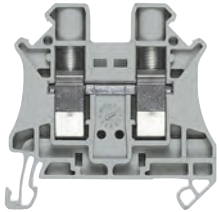


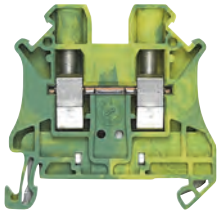


Version	Order No.	MOQ*
Terminal size 2.5 mm²		
 <p>8WH1 000-0AF00</p> <p>Through-type terminals, terminal size 2.5 mm²</p> <ul style="list-style-type: none"> •  US • Terminal width 5.2 mm • $I_{max} = 32$ A • $U_{max} = 1000$ V • AWG 26-12 • Connection capacity, one conductor <ul style="list-style-type: 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 <p>Versions</p> <ul style="list-style-type: none"> • Gray • Blue 	<p>8WH1 000-0AF00</p> <p>8WH1 000-0AF01</p>	<p>50 units</p> <p>50 units</p>
 <p>8WH1 000-0CF07</p> <p>PE through-type terminals, terminal size 2.5 mm²</p> <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 	<p>8WH1 000-0CF07</p>	<p>50 units</p>
Terminal size 4 mm²		
 <p>8WH1 000-0AG00</p> <p>Through-type terminals, terminal size 4 mm²</p> <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 <p>Versions</p> <ul style="list-style-type: none"> • Gray • Blue 	<p>8WH1 000-0AG00</p> <p>8WH1 000-0AG01</p>	<p>50 units</p> <p>50 units</p>
 <p>8WH1 000-0CG07</p> <p>PE through-type 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 	<p>8WH1 000-0CG07</p>	<p>50 units</p>
Terminal size 6 mm²		
 <p>8WH1 000-0AH00</p> <p>Through-type terminals, terminal size 6 mm²</p> <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 <p>Versions</p> <ul style="list-style-type: none"> • Gray • Blue 	<p>8WH1 000-0AH00</p> <p>8WH1 000-0AH01</p>	<p>50 units</p> <p>50 units</p>

* You can order this quantity or a multiple thereof.








8WH1 Screw Terminals

8WH through-type terminals

7

Version	Order No.	MOQ*
 <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 <p>Accessories</p> <ul style="list-style-type: none"> • Covers, for through-type terminals, for terminal size 2.5 ... 10 mm² • Compartment partitions, for through-type terminals, for terminal size 2.5 ... 10 mm² • Warning covers, for terminal size 6 mm² <p>Section Page</p> <ul style="list-style-type: none"> Accessories 7/7 dto. 7/7 dto. 7/7 	<p>8WH1 000-0CH07</p> <p>8WH9 000-1PA00</p> <p>8WH9 070-6BA00</p> <p>8WH9 064-5BA06</p>	<p>50 units</p> <p>50 units</p> <p>50 units</p> <p>50 units</p>
 <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 <p>Versions</p> <ul style="list-style-type: none"> • Gray • Blue 	<p>8WH1 000-0AJ00</p> <p>8WH1 000-0AJ01</p>	<p>50 units</p> <p>50 units</p>
 <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 	<p>8WH1 000-0CJ07</p>	<p>50 units</p>
 <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 <p>Versions</p> <ul style="list-style-type: none"> • Gray • Blue 	<p>8WH1 000-0AK00</p> <p>8WH1 000-0AK01</p>	<p>50 units</p> <p>50 units</p>
 <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 	<p>8WH1 000-0CK07</p>	<p>50 units</p>

* You can order this quantity or a multiple thereof.

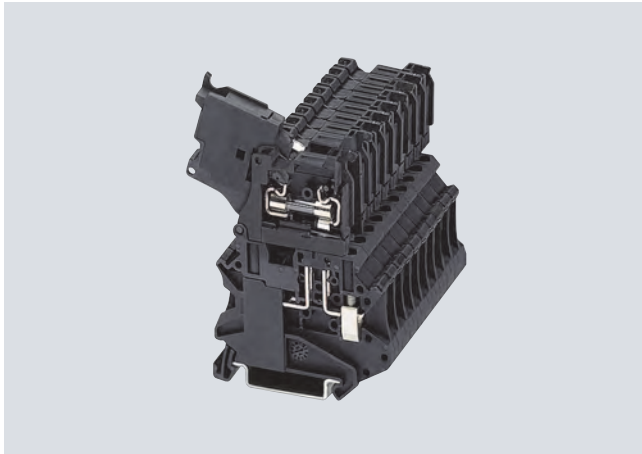
Version	Order No.	MOQ*
Terminal size 35 mm²		
 <p>8WH1 000-0AM00</p>	<p>Through-type terminals, terminal size 35 mm²</p> <ul style="list-style-type: none"> •  US • Terminal width 16 mm • $I_{max} = 150$ A • $U_{max} = 1000$ V • AWG 16-1/0 • Connection capacity, one conductor <ul style="list-style-type: 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 <p>Versions</p> <ul style="list-style-type: none"> • Gray • Blue 	
 <p>8WH1 000-0CM07</p>	<p>PE through-type terminals, terminal size 35 mm²</p> <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 	<p>8WH1 000-0AM00 50 units 8WH1 000-0AM01 50 units 8WH1 000-0CM07 50 units</p>
Accessories		
 <p>8WH9 000-1PA00</p>	<p>Covers, for through-type terminals</p> <ul style="list-style-type: none"> • 2.2 mm wide • Gray <p>Versions</p> <ul style="list-style-type: none"> • For terminal size 2.5 ... 10 mm² • For terminal size 16 mm² 	<p>8WH9 000-1PA00 50 units 8WH9 076-1PA00 50 units</p>
 <p>8WH9 002-8AC10</p>	<p>Reducing combs, for connecting terminals, for 8WH1</p> <p>Versions</p> <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 	<p>8WH9 002-8AC10 10 units 8WH9 002-8BC10 10 units 8WH9 002-8CC10 10 units 8WH9 002-8DC10 10 units 8WH9 002-8EC10 10 units 8WH9 002-8FC10 10 units 8WH9 002-8GC10 10 units 8WH9 002-8HC10 10 units</p>
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 		
 <p>8WH9 066-5BA06</p>	<p>Warning covers, for 8WH1</p> <ul style="list-style-type: none"> • Lightning symbol • Yellow <p>Versions</p> <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 	<p>8WH9 070-6BA00 50 units</p> <p>8WH9 060-5BA06 50 units 8WH9 063-5BA06 50 units 8WH9 064-5BA06 50 units 8WH9 065-5BA06 50 units 8WH9 066-5BA06 50 units 8WH9 067-5BA06 50 units</p>

* You can order this quantity or a multiple thereof.

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.

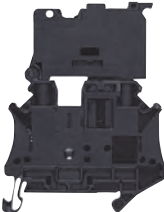

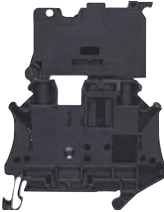

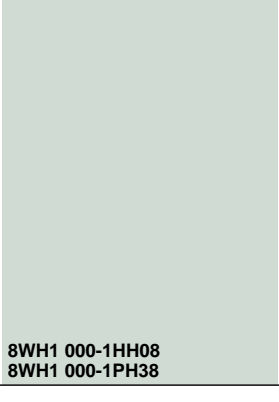

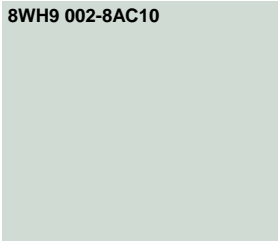
7

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	Order No.	MOQ*
Terminal size 4 mm²		
 <p>8WH1 000-1GG08</p> <p>Fuse terminals, terminal size 4 mm², for 5 x 20 mm G fuse links</p> <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 <p>Versions</p> <ul style="list-style-type: none"> • Without LED • With LED 10 ... 30 V AC/DC • With LED 110 ... 250 V AC/DC 	 <p>8WH1 000-1GG08</p> <p>8WH1 000-1KG38</p> <p>8WH1 000-1MG88</p>	<p>50 units</p> <p>50 units</p> <p>50 units</p>
Terminal size 6 mm²		
 <p>8WH1 000-1HH08</p> <p>Fuse terminals, terminal size 6 mm², for G fuse links 6.3 x 32 mm (inch fuses)</p> <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 <p>Versions</p> <ul style="list-style-type: none"> • Without LED • With LED 12 ... 30 V AC/DC 	 <p>8WH1 000-1HH08</p> <p>8WH1 000-1PH38</p>	<p>50 units</p> <p>50 units</p>
Accessories		
 <p>8WH9 002-8AC10</p> <p>Reducing combs, for connecting terminals, from terminal size 6 mm² to 2.5 or 4 mm², from screw to screw</p>	 <p>8WH9 002-8AC10</p>	<p>10 units</p>

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.

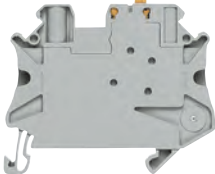

The individual clamping points can be inscribed at the front using labels.

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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

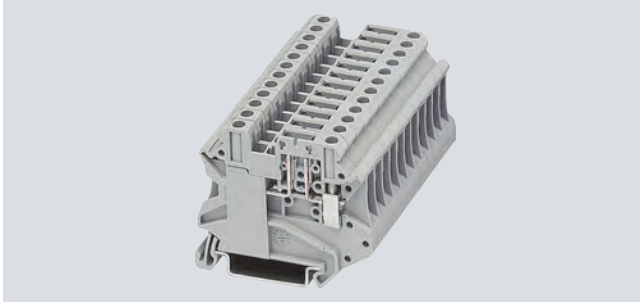
Selection and ordering data

Version	Order No.	MOQ*
<p>Terminal size 4 mm²</p>  <p>8WH1 000-6CG00</p> <p>Isolating blade terminals, terminal size 4 mm²</p> <ul style="list-style-type: none"> •  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	50 units
<p>Accessories</p> <p>Warning covers, for terminal size 4 mm²</p> <ul style="list-style-type: none"> • Lightning symbol • Width 6.2 mm • Yellow 	8WH9 063-5BA06	50 units

Note:

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

Overview



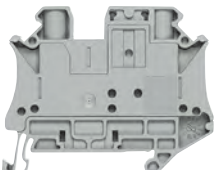

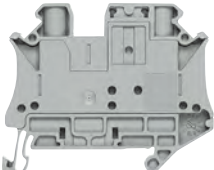

8WH isolating terminals serve for mounting various function plugs.

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 / --	73 / 80.5
• 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	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

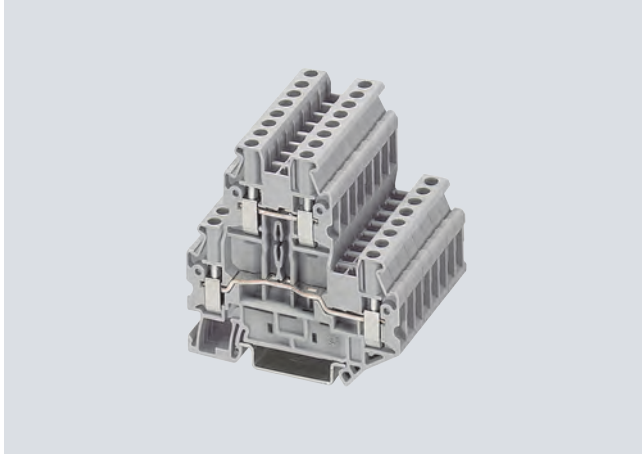
Version	Order No.	MOQ*
Terminal size 4 mm²  8WH1 000-6AG00 Isolating terminals, terminal size 4 mm² <ul style="list-style-type: none"> •  US • Terminal width 6.2 mm • $I_{max} = 20$ A • $U_{max} = 400$ V • AWG 26-10 • Connection capacity, one conductor <ul style="list-style-type: none"> - Rigid 0.14 ... 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 • Gray 	8WH1 000-6AG00	50 units
Terminal size 6 mm²  8WH1 000-6AH00 Isolating terminals, terminal size 6 mm² <ul style="list-style-type: none"> •  US • Terminal width 8.2 mm • $I_{max} = 20$ A • $U_{max} = 500$ 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 • Gray 	8WH1 000-6AH00	50 units

* You can order this quantity or a multiple thereof.

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.

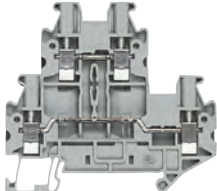
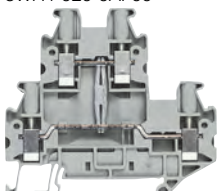

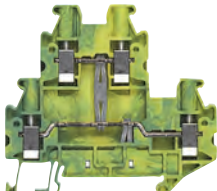

The tier offset on the 8WH two-tier terminals allows for excellent access to the lower level, even when fully wired. Spacer plates can be used to compensate for the tier offset if other terminals are mounted side by side.

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	500	800	--	
acc. to IEC 60497-7-1				
• 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	500			
acc. to IEC 60497-7-1				
• 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

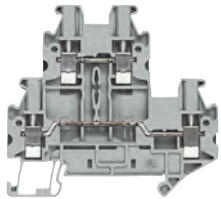

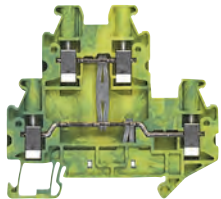



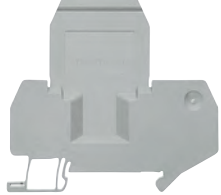
Version	Order No.	MOQ*
Terminal size 2.5 mm²		
 <p>8WH1 020-0AF00</p>  <p>8WH1 025-0AF00</p>	<p>Two-tier terminals, terminal size 2.5 mm²</p> <ul style="list-style-type: none"> •  US • Terminal width 5.2 mm • $I_{max} = 28$ A • $U_{max} = 500$ V • AWG 26-12 • Connection capacity, one conductor <ul style="list-style-type: 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 <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 	<p>8WH1 020-0AF00 50 units</p> <p>8WH1 025-0AF00 50 units</p> <p>8WH1 020-0AF01 50 units</p>
 <p>8WH1 020-0CF07</p>	<p>PE two-tier terminals, terminal size 2.5 mm²</p> <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 	<p>8WH1 020-0CF07 50 units</p>

* You can order this quantity or a multiple thereof.

8WH1 Screw Terminals

8WH two-tier terminals

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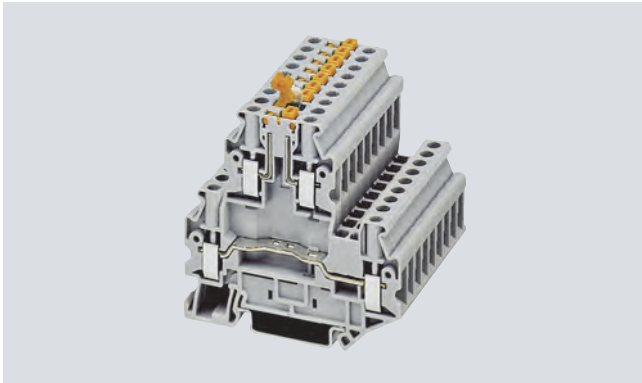
Version	Order No.	MOQ*
Terminal size 4 mm²		
 <p>8WH1 020-0AG00</p>	<p>Two-tier terminals, terminal size 4 mm²</p> <ul style="list-style-type: none"> •  US • Terminal width 6.2 mm • $I_{max} = 36\text{ A}$ • $U_{max} = 800\text{ V}$ • AWG 26-10 • Connection capacity, one conductor <ul style="list-style-type: 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 	<p>8WH1 020-0AG00 50 units</p> <p>8WH1 025-0AG00 50 units</p> <p>8WH1 020-0AG01 50 units</p>
 <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 	<p>8WH1 020-0CG07 50 units</p>
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 	<p>8WH9 000-1QA00 50 units</p>
 <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 	<p>8WH9 160-0AA00 50 units</p>
 <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 	<p>8WH9 070-6FA00 50 units</p>

Note:

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

8WH1 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

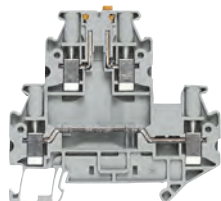
	8WH1 020-6AC00	8WH1 020-6AG00
Dimensions		
• Width/length/cover width in mm	6.2 / 69.9 / 2.2	
• Height (NS 35/7.5 / NS 35/15) in mm	65 / 72.5	
Technical specifications acc. to IEC/DIN VDE		
• Max. load current in A / cross-section in mm ²	38 ¹⁾ / 6	
• Rated impulse withstand voltage in kV / pollution 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		
- UL/cUL: in V/A / AWG	600 / 5 / 26-10	
- CSA: in V/A / AWG	-- / -- / --	

¹⁾ Bottom level

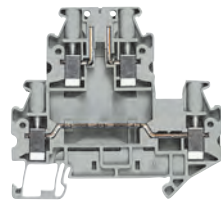
Selection and ordering data

Version	Order No.	MOQ*
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Terminal size 4 mm²



8WH1 020-6AC00



8WH1 020-6AG00

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

-
- 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	50 units
8WH1 020-6AG00	50 units

* You can order this quantity or a multiple thereof.

8WH1 Screw Terminals

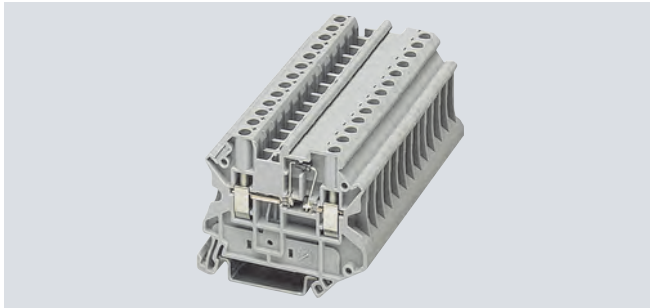
8WH two-tier terminals with isolating function/isolating blade

Version	Order No.	MOQ*
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 	<p>8WH9 000-1QA00 50 units</p>
 <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 	<p>8WH9 160-0AA00 50 units</p>
 <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 	<p>8WH9 070-6FA00 50 units</p>

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.

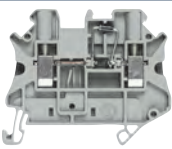

The clamping points of diode terminals can be inscribed at the front using the labels.

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

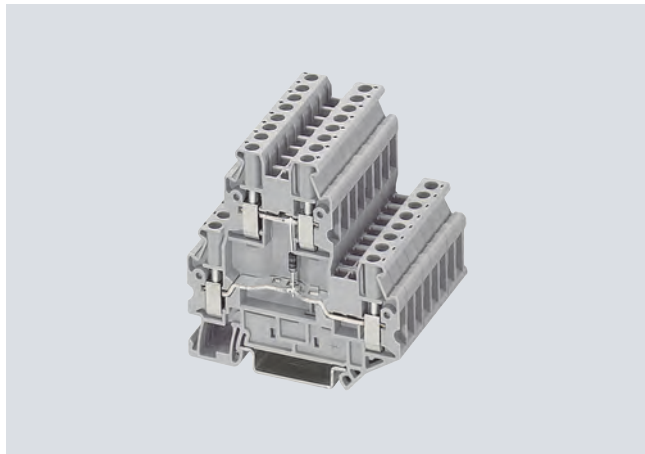
Version	Order No.	MOQ*
Terminal size 4 mm²		
 Diode terminals, terminal size 4 mm², gray, C_{UL} US, © <ul style="list-style-type: none"> Terminal width 6.2 mm $I_{max} = 0.5 A$, $U_{max} = 800 V$ AWG 26-10 Connection capacity, one conductor <ul style="list-style-type: none"> - Rigid 0.14 ... 6 mm², 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 With integrated diode: 1N 4007 		
Versions <ul style="list-style-type: none"> Let-through from left to right Let-through from right to left 	8WH1 000-6LG00 8WH1 000-6KG00	50 units 50 units
Accessories		
 Covers, for diode terminals, for terminal size 2.5 ... 4 mm² <ul style="list-style-type: none"> Width 2.2 mm Gray 	8WH9 000-2PA00	50 units
Warning covers, for terminal size 4 mm² <ul style="list-style-type: none"> Lightning symbol, yellow 	8WH9 063-5BA06	50 units

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.

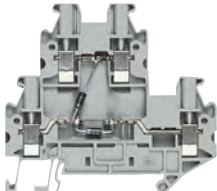



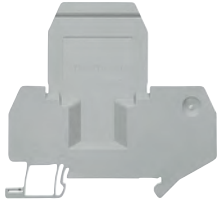
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Technical specifications

	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	Order No.	MOQ*
Terminal size 2.5 mm²		
 <p>8WH1 020-5FF00</p> <p>Two-tier diode terminals, terminal size 2.5 mm²</p> <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 <p>Versions</p> <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 	<p>8WH1 020-5AF00</p> <p>8WH1 020-5BF00</p> <p>8WH1 020-5DF00</p> <p>8WH1 020-5FF00</p> <p>8WH1 020-5HF00</p>	<p>50 units</p> <p>50 units</p> <p>50 units</p> <p>50 units</p> <p>50 units</p>
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	50 units
 <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	50 units
 <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	50 units

Note:

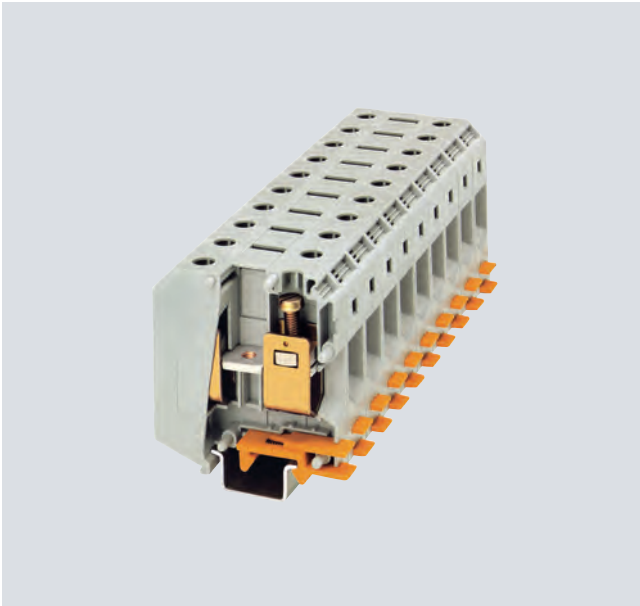
For general accessories for 8WH terminal blocks, [see chapter 8](#).

* You can order this quantity or a multiple thereof.

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.

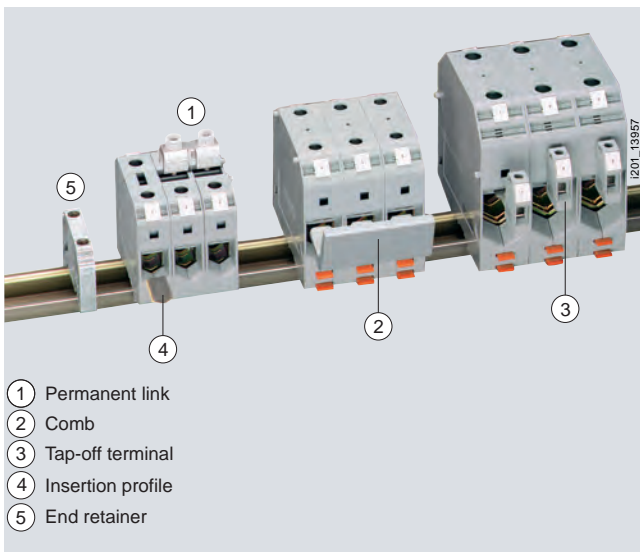
Mounting on support rails acc. to IEC 60715.

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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



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

Assembled terminal blocks




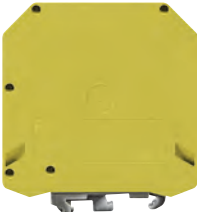


Technical specifications

	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	Order No.	MOQ*
Terminal size 50 mm²		
 <p>8WH1 000-0AN00</p> <p>High-current terminals, terminal size 50 mm²</p> <ul style="list-style-type: none"> Enclosed at both ends Terminal width 20 mm C^{UL}us 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 <p>Versions</p> <ul style="list-style-type: none"> Gray Blue 	<p>8WH1 000-0AN00</p> <p>8WH1 000-0AN01</p>	<p>10 units</p> <p>10 units</p>
 <p>8WH1 000-0CN07</p> <p>High-current PE terminals, terminal size 50 mm²</p> <ul style="list-style-type: none"> Green/yellow Enclosed at both ends Terminal width 20 mm C^{UL}us 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 	<p>8WH1 000-0CN07</p>	<p>10 units</p>
Terminal size 95 mm²		
 <p>8WH1 000-0AQ00</p> <p>High-current terminals, terminal size 95 mm²</p> <ul style="list-style-type: none"> Enclosed at both ends Terminal width 25 mm C^{UL}us 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>Versions</p> <ul style="list-style-type: none"> Gray Blue 	<p>8WH1 000-0AQ00</p> <p>8WH1 000-0AQ01</p>	<p>10 units</p> <p>10 units</p>
 <p>8WH1 000-0CQ07</p> <p>High-current PE terminals, terminal size 95 mm²</p> <ul style="list-style-type: none"> Green/yellow Enclosed at both ends Terminal width 25 mm C^{UL}us 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>8WH1 000-0CQ07</p>	<p>10 units</p>
 <p>8WA1 010-1PQ00</p> <p>High-current PE terminals and high-current PEN terminals, terminal size 95mm², two screw terminals</p> <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 <p>Note</p> <p>8WH accessories do not match this terminal.</p>	<p>8WA1 010-1PQ00</p>	<p>5 units</p>
Terminal size 150 mm²		
 <p>8WH1 000-0AS00</p> <p>High-current terminals, terminal size 150 mm²</p> <ul style="list-style-type: none"> Enclosed at both ends Terminal width 31 mm C^{UL}us 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 <p>Versions</p> <ul style="list-style-type: none"> Gray Blue 	<p>8WH1 000-0AS00</p> <p>8WH1 000-0AS01</p>	<p>10 units</p> <p>10 units</p>

* You can order this quantity or a multiple thereof.

Version	Order No.	MOQ*
Terminal size 240 mm²		
 <p>8WH1 000-0AU00</p>	<p>High-current terminals, terminal size 240 mm²</p> <ul style="list-style-type: none"> Enclosed at both ends Terminal width 36 mm Combs 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 <p>Versions</p> <ul style="list-style-type: none"> Gray Blue 	<p>8WH1 000-0AU00 10 units</p> <p>8WH1 000-0AU01 10 units</p>
Accessories		
 <p>8WH9 120-0AA00</p>	<p>Tap-off terminals</p> <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 <p>Versions</p> <ul style="list-style-type: none"> For terminal size 50 mm² For terminal size 95 mm² For terminal size 150 ... 240 mm² 	<p>8WH9 120-0AA00 10 units</p> <p>8WH9 120-0BA00 10 units</p> <p>8WH9 120-0CA00 10 units</p>
 <p>8WH9 020-3AA00</p>	<p>Combs</p> <ul style="list-style-type: none"> Totally insulated Fitted in the clamping sleeve and latched with the terminal enclosure <p>Versions</p> <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 	<p>8WH9 020-3AA00 10 units</p> <p>8WH9 020-3BA00 10 units</p> <p>8WH9 020-3CA00 10 units</p> <p>8WH9 020-3DA00 10 units</p> <p>8WH9 020-3EA00 10 units</p> <p>8WH9 020-3FA00 10 units</p>
 <p>8WH9 020-3MA00</p>	<p>Insertion profiles</p> <p>Evens out the prismatic sleeve base when using flat conductors</p> <p>Versions</p> <ul style="list-style-type: none"> For terminal size 50 mm² For terminal size 95 mm² For terminal sizes 150 and 240 mm² 	<p>8WH9 020-3MA00 10 units</p> <p>8WH9 020-3NA00 10 units</p> <p>8WH9 020-3PA00 10 units</p>
 <p>8WH9 020-6HC00</p>	<p>Permanent links, for terminal size 50 mm²</p> <ul style="list-style-type: none"> For cross links Screw heads with insulating collar Remove partition first $I_{max} = 150$ A <p>Versions</p> <ul style="list-style-type: none"> 2-pole 3-pole 	<p>8WH9 020-6HC00 10 units</p> <p>8WH9 020-6HD00 10 units</p>

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.

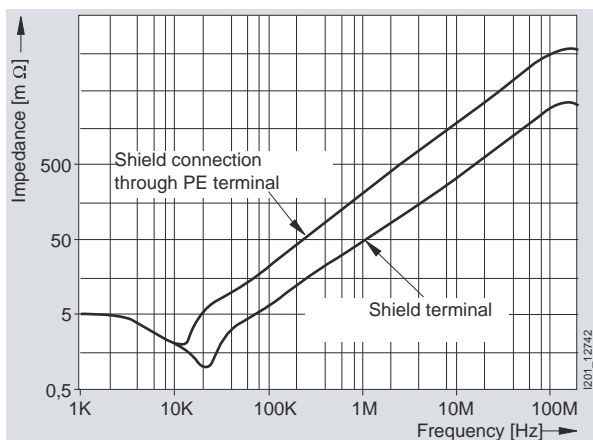
A spring-loaded pressure plate regulates the force applied to the cable to ensure an optimum contact with the busbar at all times.

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	Order No.	MOQ*
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 <ul style="list-style-type: none"> Sheet thickness 1 ... 2 mm For busbars 		
 8WH9 130-0AA0	8WH9 130-0AA0	10 units
 8WH9 130-0LA00	8WH9 130-0LA00	10 units
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 <ul style="list-style-type: none"> Sheet thickness 1 ... 2 mm For busbars 		
 8WH9 130-0BA00	8WH9 130-0BA00	10 units
 8WH9 130-0MA00	8WH9 130-0MA00	10 units

* You can order this quantity or a multiple thereof.

8WH1 Screw Terminals

8WH shield terminals

Version	Order No.	MOQ*
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Terminal diameter 3 ... 20 mm



8WH9 130-0CA00

Shield terminal, terminal diameter 3 ... 20 mm

Versions

- For direct shield attachment on conductive mounting plate
- Sheet thickness 1 ... 2 mm
- For busbars

8WH9 130-0CA00

10 units

8WH9 130-0NA00

10 units

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8WH9 130-0NA00

Terminal diameter 20 ... 35 mm



8WH9 130-0DA00

Shield terminal, terminal diameter 20 ... 35 mm

Versions

- For direct shield attachment on conductive mounting plate
- Sheet thickness 1 ... 2 mm
- For busbars

8WH9 130-0DA00





50 units

8WH9 130-0PA00

10 units



8WH9 130-0PA00

Version	Order No.	MOQ*
Accessories		
 8WH9 140-0DA00	8WH9 140-0DA00 10 units 8WH9 140-0BA00 10 units 8WH9 140-0CA00 10 units	
 8WH9 140-0BA00		
 8WH9 140-0CA00		
 8WA2 842		
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 		
N-busbars, 10 mm x 3 mm <ul style="list-style-type: none"> • Copper, aluminum • 1000 mm long 	8WA2 842	1 unit

Note:

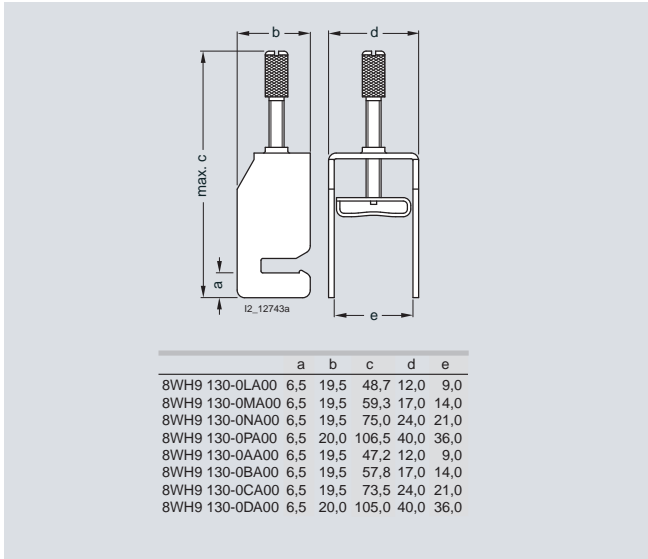
For general accessories for 8WH terminal blocks, [see chapter 8](#).

* You can order this quantity or a multiple thereof.

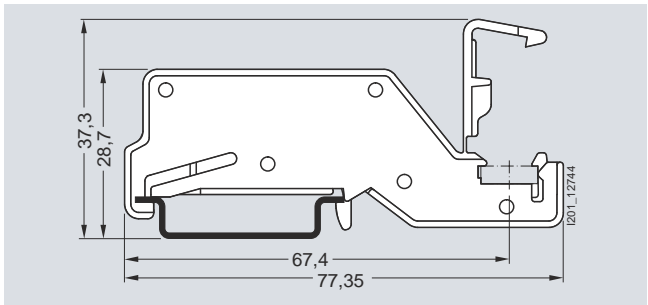
8WH1 Screw Terminals

8WH shield terminals

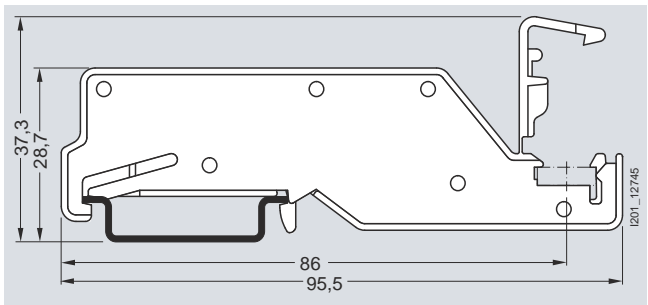
Dimensional drawings



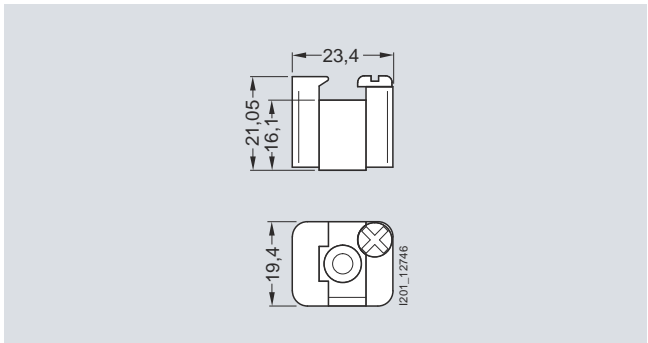
Shield terminals



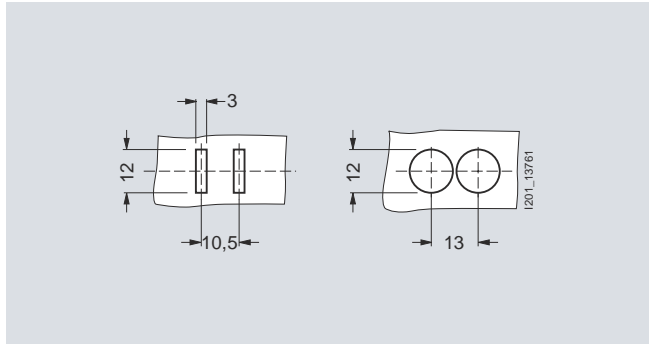
8WH9 140-0BA00



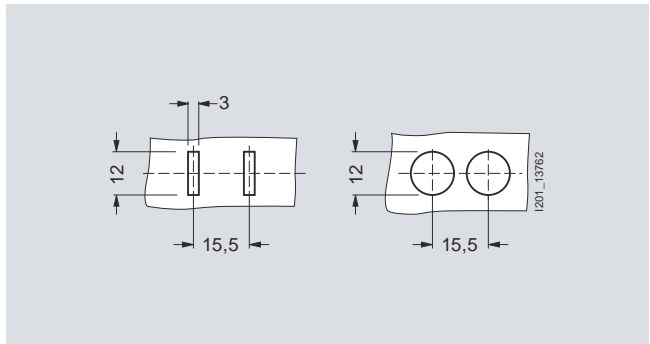
8WH9 140-0CA00



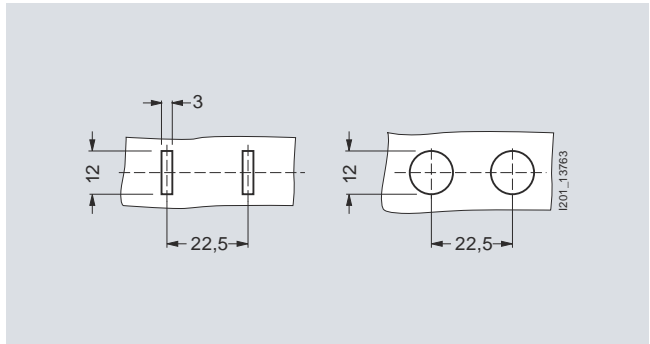
8WH9 140-0DA00



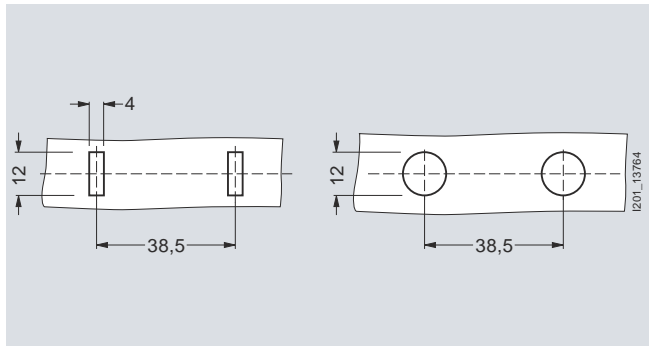
Punching template and drill plan for 8WH9 130-0AA00



Punching template and drill plan for 8WH9 130-0BA00



Punching template and drill plan for 8WH9 130-0CA00



Punching template and drill plan for 8WH9 130-0DA00