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¹⁾ Also available as a PE version

More technical product information:

Service&Support Portal:
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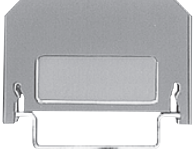


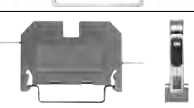


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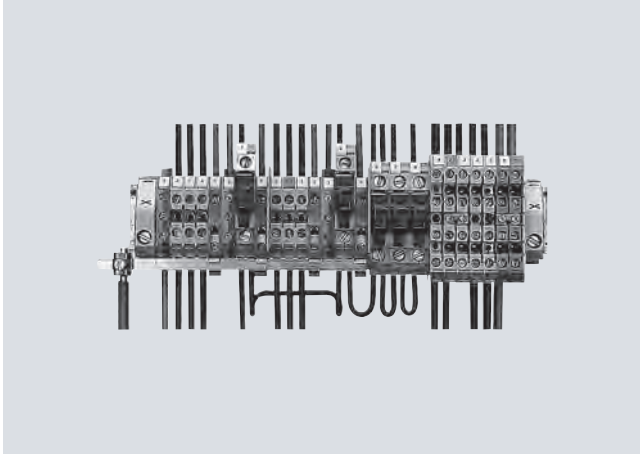
8WA1 Screw Terminals

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 60 947-7-1 or
IEC 60 947-7-2.

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/mm² 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 mm² 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 mm². Strain-relief clamps for terminal sizes 2.5, 4 and 6 mm². 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.

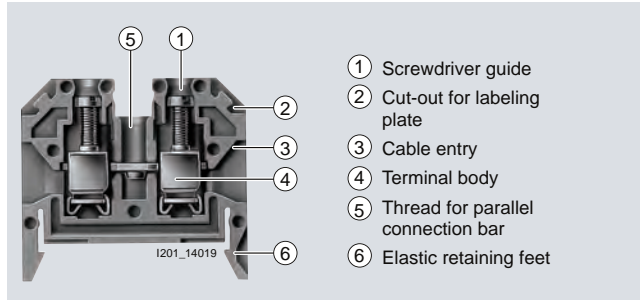
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General data on 8WA

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 60947-1 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	Tensile forces acc. to IEC 60947-1 at max. conductor connection	Stripped length
				Nm		
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⁾ mm ² Size		Solid mm ²	Stranded mm ²	Finely stranded mm ²	Finely stranded with end sleeve ¹⁾ 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	--
	8WA1 011-1DU. .	--	--	--	--	--	--	240	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 ∅ 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
8WA1 011-1PG11, -1NG01	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	
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 \varnothing 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 mm ²	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	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, -ODF21, -ODF22	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, -ODG21, -ODG22	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
70	8WA1 012-1DP14	2/0-1	170	600	6-3/0	--	600
	8WA1 206	8-1/0	150	600	8-3/0	220	600
95	8WH1 000-0AQ00, 8WH1 000-0AQ01	1-000	220	600	2-000	230	600
	8WH1 000-0CQ07	2-4	--	--	2-4	--	--
	8WH1 060-0AQ00	2-000	200	600	2-000	230	600
150	8WH1 000-0AS0, 8WH1 000-0AS01	2 - 300 kcmil	275	600	2 - 300 kcmil	285	600
	8WH1 060-0AS00	2 - 300 kcmil	275	600	2 - 300 kcmil	285	600
240	8WH1 000-0AU00, 8WH1 000-0AU01	0 - 500 kcmil	400	600	0 - 500 kcmil	380	600
	8WH1 000-0AU00	0 - 500 kcmil	400	600	0 - 500 kcmil	380	600

1) Plug-in connection

Selection and ordering data

Version	Order No.	MOQ*																																																																																					
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 - White, facility for inscription, for terminal size 1.5 to 2.5 mm² - 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 • Jumpers, for terminal size 2.5 mm² • Test sockets • Disconnecting links 																																																																																							
Note <p>Between terminals with terminal sizes 2.5 and 6 mm², two 8WH1 820 barriers are required.</p>																																																																																							
<ul style="list-style-type: none"> • Insulation plates, for terminal size 2.5 to 6 mm² • Connection bars, for terminal size 2.5 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 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																																																																																							
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8WA1 011-1PF00			8WA1 011-1PF00	50 units																																																																																			
8WA1 820	Accessories	9/14	8WA1 820	50 units																																																																																			

* You can order this quantity or a multiple thereof.

8WA1 Screw Terminals

8WA through-type terminals

Version	Order No.	MOQ*
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Terminal size 4 mm²



8WA1 011-1DG11



8WA1 011-ODG21

Through-type terminals, terminal size 4 mm²

- Rated uninterrupted current 32 A
- Rated insulation voltage 800 V
- Mounting width 6.5 mm
- Terminal height 30 mm
- Terminal length 41 mm
- **UL** AWG 18-10
- **CE** AWG 18-10

Versions

- Single terminals
 - Beige
 - Blue
 - Red
 - Orange
 - Black
- Terminal blocks
 - 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

Accessories

	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		
◦ Transparent, for terminal size 2.5 to 6 mm ²	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

Note

Between terminals with terminal sizes 2.5 and 6 mm², two 8WH1 820 barriers are required.

• Insulation plates, for terminal size 2.5 to 6 mm ²	Accessories	9/14
• Connection bars, for terminal size 4 mm ²		
- 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 mm ²	Accessories	9/14

PE through-type terminals, terminal size 4 mm²

- Green/yellow
- Mounting width 7.2 mm
- Terminal height 30 mm
- Terminal length 51 mm
- **UL** **CE**



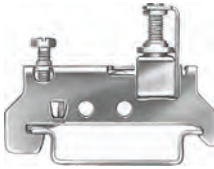

Versions

- One screw terminal
- Two screw terminals

Accessories

	Section	Page
Barriers, for terminal size 1.5 to 4 mm ²	Accessories	9/14

8WA1 011-1DG11	100 units
8WA1 011-1BG11	50 units
8WA1 011-1BG21	50 units
8WA1 011-1BG22	50 units
8WA1 011-1BG24	50 units
8WA1 011-3DG21	10 units
8WA1 011-ODG22	20 units
8WA1 011-ODG21	20 units
8WA1 811	50 units
8WA1 862	50 units
8WA1 822-7AX01	10 units
8WA1 822-7AX03	10 units
8WA1 822-7VG00	50 units
8WA1 741-2X	5 units
8WA1 854	100 units
8WA1 865	50 units
8WA1 825	50 units
8WA1 850	50 units
8WA1 851	50 units
8WA1 852	20 units
8WA1 853	10 units
8WA1 820	50 units
8WA1 011-1PG01	50 units
8WA1 011-1PG00	50 units
8WA1 820	50 units

Version	Order No.	MOQ*																																													
Terminal size 6 mm²																																															
 <p>8WA1 011-1DH11</p>  <p>8WA1 011-3DH21</p>	<p>Through-type terminals, terminal size 6 mm²</p> <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 <p>Versions</p> <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 <table border="1"> <thead> <tr> <th>Accessories</th> <th>Section</th> <th>Page</th> </tr> </thead> <tbody> <tr> <td>Covers</td> <td></td> <td></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> <p>Note</p> <p>Between terminals with terminal sizes 2.5 and 6 mm², two 8WH1 820 barriers are required.</p> <table border="1"> <tbody> <tr> <td>Insulation plates, for terminal size 2.5 to 6 mm²</td> <td>Accessories</td> <td>9/14</td> </tr> <tr> <td>Connection bars, for terminal size 6 mm²</td> <td></td> <td></td> </tr> <tr> <td>- For two terminals</td> <td>Accessories</td> <td>9/14</td> </tr> <tr> <td>- For three terminals</td> <td>Accessories</td> <td>9/14</td> </tr> <tr> <td>- For four terminals</td> <td>Accessories</td> <td>9/14</td> </tr> <tr> <td>- For ten terminals</td> <td>Accessories</td> <td>9/14</td> </tr> <tr> <td>Barriers, for terminal size 6 and 16 mm²</td> <td>Accessories</td> <td>9/14</td> </tr> </tbody> </table>	Accessories	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 mm²	Accessories	9/13	Test sockets	Accessories	9/14	Disconnecting links	Accessories	9/14	Insulation plates, for terminal size 2.5 to 6 mm²	Accessories	9/14	Connection bars, for terminal size 6 mm²			- 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 6 and 16 mm²	Accessories	9/14	<p>8WA1 011-1DH11 50 units</p> <p>8WA1 011-1BH23 50 units</p> <p>8WA1 011-1BH24 50 units</p> <p>8WA1 011-3DH21 20 units</p> <p>8WA1 811 50 units</p> <p>8WA1 862 50 units</p> <p>8WA1 822-7AX01 10 units</p> <p>8WA1 822-7VH00 50 units</p> <p>8WA1 854 100 units</p> <p>8WA1 865 50 units</p> <p>8WA1 825 50 units</p> <p>8WA1 885 50 units</p> <p>8WA1 886 50 units</p> <p>8WA1 887 20 units</p> <p>8WA1 888 10 units</p> <p>8WA1 821 50 units</p> <p>8WA1 010-1PH01 50 units</p> <p>8WA1 821 50 units</p> <p>8WA1 011-1PH00 50 units</p> <p>8WA1 821 50 units</p>
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Barriers, for terminal size 6 and 16 mm²	Accessories	9/14																																													
 <p>8WA1 010-1PH01</p>	<p>PE through-type terminals, terminal size 6 mm², one screw terminal</p> <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 <table border="1"> <thead> <tr> <th>Accessories</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>	Accessories	Section	Page	Barriers, for terminal size 6 and 16 mm ²	Accessories	9/14																																								
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 <p>8WA1 011-1PH00</p>	<p>PE through-type terminals, terminal size 6 mm², two screw terminals</p> <ul style="list-style-type: none"> Green/yellow Mounting width 8 mm Terminal height 33 mm Terminal length 51 mm AWG 14-8 AWG 16-8 <table border="1"> <thead> <tr> <th>Accessories</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>	Accessories	Section	Page	Barriers, for terminal size 6 and 16 mm ²	Accessories	9/14																																								
Accessories	Section	Page																																													
Barriers, for terminal size 6 and 16 mm ²	Accessories	9/14																																													

* You can order this quantity or a multiple thereof.

8WA1 Screw Terminals

8WA through-type terminals

Version	Order No.	MOQ*
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Terminal size 16 mm²



8WA1 204



8WA1 304

Through-type terminals, terminal size 16 mm²

- 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

- Single terminals
 - Beige
 - Blue
- Terminal blocks
 - 3-pole, width 30 mm

Accessories

- **Covers**
 - With lightning symbol, for terminal size 16 mm²
 - White, facility for inscription, for terminal size 16 mm²
 - For connection bars, transparent, for terminal size 16 and 35 mm²
- **Insulation plates, for terminal size 16 and 35 mm²**
- **Connection bars, for terminal size 16 mm²**
 - For two terminals
 - For three terminals
 - For four terminals
 - For ten terminals
- **Barriers, for terminal size 6 and 16 mm²**

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Accessories	9/13
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Accessories	9/14
Accessories	9/14

8WA1 204	20 units
8WA1 011-1BK11	10 units
8WA1 304	20 units

8WA1 812	50 units
8WA1 892	50 units

8WA1 822-7AX02	10 units
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8WA1 822-7TK00	50 units
-----------------------	----------

8WA1 842	20 units
8WA1 845	20 units
8WA1 848	10 units
8WA1 802	10 units
8WA1 821	50 units



8WA1 011-1PK00

PE through-type terminals and through-type PEN terminals, terminal size 16 mm²

- Green/yellow
- for I = 76 A
- Mounting width 12 mm
- Terminal height 38 mm
- Terminal length 53 mm
- Two screw terminals
-

Accessories

- **Barriers, for terminal size 6 and 16 mm²**

Section	Page
Accessories	9/14

8WA1 011-1PK00	25 units
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8WA1 821	50 units
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Terminal size 35 mm²



8WA1 205



8WA1 305

Through-type terminals, terminal size 35 mm²

- 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

Versions

- Single terminals
 - Beige
 - Blue
- Terminal blocks
 - 3-pole, width 48 mm

Accessories

- **Covers**
 - With lightning symbol, for terminal size 35 mm²
 - White, facility for inscription, for terminal size 35 mm²
 - For connection bars, transparent, for terminal size 16 and 35 mm²
- **Insulation plates, for terminal size 16 and 35 mm²**
- **Connection bars, for terminal size 35 mm²**
 - For two terminals
 - For three terminals
 - For ten terminals
- **Barriers, for terminal size 35 mm²**

Section	Page
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Accessories	9/13
Accessories	9/13
Accessories	9/14
Accessories	9/14
Accessories	9/14
Accessories	9/14
Accessories	9/14

8WA1 205	20 units
8WA1 011-1BM11	10 units













8WA1 305	20 units
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8WA1 813	50 units
8WA1 893	50 units

8WA1 822-7AX02	10 units
-----------------------	----------

8WA1 822-7TK00	50 units
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8WA1 828	20 units
8WA1 803	20 units
8WA1 804	10 units
8WA1 823	25 units

Version	Order No.	MOQ*								
 <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> <table border="1"> <thead> <tr> <th>Section</th> <th>Page</th> </tr> </thead> <tbody> <tr> <td>Barriers, for terminal size 35 mm²</td> <td>Accessories 9/14</td> </tr> </tbody> </table> <p>8WA1 011-1PM00</p>	Section	Page	Barriers, for terminal size 35 mm ²	Accessories 9/14	8WA1 011-1PM00	25 units				
Section	Page									
Barriers, for terminal size 35 mm ²	Accessories 9/14									
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> <table border="1"> <thead> <tr> <th>Section</th> <th>Page</th> </tr> </thead> <tbody> <tr> <td>Covers, with lightning symbol, for terminal size 70 mm²</td> <td>Accessories 9/13</td> </tr> <tr> <td>Connection bars, for terminal size 70 mm², for 2 terminals</td> <td>Accessories 9/14</td> </tr> <tr> <td>Barriers, for terminal size 70 mm²</td> <td>Accessories 9/14</td> </tr> </tbody> </table> <p>8WA1 206</p>	Section	Page	Covers, with lightning symbol, for terminal size 70 mm ²	Accessories 9/13	Connection bars, for terminal size 70 mm ² , for 2 terminals	Accessories 9/14	Barriers, for terminal size 70 mm ²	Accessories 9/14	8WA1 206 8WA1 011-1BP11	10/60 units 10 units
Section	Page									
Covers, with lightning symbol, for terminal size 70 mm ²	Accessories 9/13									
Connection bars, for terminal size 70 mm ² , for 2 terminals	Accessories 9/14									
Barriers, for terminal size 70 mm ²	Accessories 9/14									
Accessories										
Covers										
<p>Versions</p> <ul style="list-style-type: none"> • With lightning symbol <ul style="list-style-type: none"> - For terminal size 1.5 ... 2.5 mm² - For terminal sizes 4 and 6 mm² - For terminal size 16 mm² - For terminal size 35 mm² - For terminal size 70 mm² • White, facility for inscription <ul style="list-style-type: none"> - For terminal size 1.5 ... 2.5 mm² - For terminal sizes 4 and 6 mm² - For terminal size 16 mm² - For terminal size 35 mm² • For connection bars, transparent <ul style="list-style-type: none"> - For terminal size 2.5 ... 6 mm² - For terminal sizes 16 and 35 mm² • For connection bars, white, facility for inscription, for terminal size 2.5 to 6 mm² 										
 <p>8WA1 810</p>	8WA1 810 8WA1 811 8WA1 812 8WA1 813 8WA1 814	50 units 50 units 50 units 50 units 50 units								
 <p>8WA1 860</p>	8WA1 860 8WA1 862 8WA1 892 8WA1 893	50 units 50 units 50 units 50 units								
 <p>8WA1 822-7AX01</p>	8WA1 822-7AX01 8WA1 822-7AX02	10 units 10 units								
 <p>8WA1 822-7AX03</p>	8WA1 822-7AX03	10 units								
Jumpers For connection bars										
<p>Versions</p> <ul style="list-style-type: none"> • For terminal size 2.5 mm² • For terminal size 4 mm² • For terminal size 6 mm² 										
 <p>8WA1 822-7VF01</p>	8WA1 822-7VF01 8WA1 822-7VG00 8WA1 822-7VH00	50 units 50 units 50 units								
 <p>8WA1 808</p>	8WA1 808	50 units								

* You can order this quantity or a multiple thereof.

8WA1 Screw Terminals

8WA through-type terminals

Version	Order No.	MOQ*
 <p>Terminal strips</p> <ul style="list-style-type: none"> • 6-pole • Labeled 1 to 6 	8WA1 741-2X	5 units
<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	100 units
<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	10 units 10 units
<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	50 units
<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	50 units 50 units
<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	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
<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	50 units 50 units 25 units 25 units
<p>8WA1 820</p>		

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	Order No.	MOQ*															
<p>General details</p> <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>10/2</td> </tr> </tbody> </table>	Note	Section	Page	For labeling accessories, see ...	Accessories	10/2											
Note	Section	Page															
For labeling accessories, see ...	Accessories	10/2															
Terminal size 2.5 mm²																	
 <p>8WA1 011-1NF01</p> <p>N-conductor isolating terminal, terminal size 2.5 mm²</p> <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	<p>8WA1 011-1NF01</p> <p>50 units</p>				
Accessories	Section	Page															
• Covers, for connection bars	Accessories	9/16															
• N-busbars, 6 mm x 6 mm	Accessories	9/16															
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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															
<p>Branch terminals, terminal size 2.5 mm²</p> <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	<p>8WA1 011-1NF02</p> <p>50 units</p>				
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															
<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	<p>8WA1 822-7AX00</p> <p>10 units</p> <p>8GF9 324-2</p> <p>10 units</p> <p>3TX4 210-0J</p> <p>100 units</p>				
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															
Terminal size 4 mm²																	
 <p>8WA1 011-1NG31</p> <p>N-conductor isolating terminal, terminal size 4 mm²</p> <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	<p>8WA1 011-1NG31</p> <p>50 units</p>	
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															
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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															

* You can order this quantity or a multiple thereof.

8WA1 Screw Terminals

8WA N-conductor isolating and branch terminals

Version	Order No.	MOQ*															
Terminal size 6 mm²																	
 <p>8WA1 011-1NH01</p> <p>N-conductor isolating terminals, terminal size 6 mm²</p> <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 <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	<p>8WA1 011-1NH01</p> <p>50 units</p>				
Accessories	Section	Page															
• Covers, for connection bars	Accessories	9/16															
• N-busbars, 6 mm × 6 mm	Accessories	9/16															
• Label holders	Accessories	9/16															
	<p>8WA1 822-7AX00</p> <p>8GF9 324-2</p> <p>3TX4 210-0J</p>	<p>10 units</p> <p>10 units</p> <p>100 units</p>															
Terminal size 16 mm²																	
 <p>8WA1 604</p> <p>N-conductor isolating terminals, terminal size 16 mm²</p> <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 <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 × 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 × 6 mm	Accessories	9/16	• Label holders	Accessories	9/16	<p>8WA1 604</p> <p>50 units</p>	
Accessories	Section	Page															
• Covers, for connection bars	Accessories	9/16															
• Feeder terminals, for N-busbars	Accessories	9/16															
• N-busbars, 6 mm × 6 mm	Accessories	9/16															
• Label holders	Accessories	9/16															
	<p>8WA1 822-7AX00</p> <p>8WA2 868</p> <p>8GF9 324-2</p> <p>3TX4 210-0J</p>	<p>10 units</p> <p>50 units</p> <p>10 units</p> <p>100 units</p>															
	<p>Branch terminals, terminal size 16 mm²</p> <ul style="list-style-type: none"> • Beige • Isolating distance 400 V • Mounting width 10 mm • Isolating distance •  AWG 12-4 <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	<p>8WA1 011-1NK02</p> <p>50 units</p>			
Accessories	Section	Page															
• Covers, for connection bars	Accessories	9/16															
• N-busbars, 6 mm × 6 mm	Accessories	9/16															
• Label holders	Accessories	9/16															
	<p>8WA1 822-7AX00</p> <p>8GF9 324-2</p> <p>3TX4 210-0J</p>	<p>10 units</p> <p>10 units</p> <p>100 units</p>															
Accessories																	
 <p>8WA1 822-7AX00</p> <p>Covers, for connection bars</p> <ul style="list-style-type: none"> • Not for 8WA1 604 and 8WA1 011-1NK02 • Length 155 mm 	<p>8WA1 822-7AX00</p> <p>10 units</p>																
 <p>8WA2 870 / 868 / 867</p> <p>Feeder terminals, for N-busbars</p> <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>• Rated uninterrupted current 32 A, for connection of up to 4 mm²</td> </tr> <tr> <td>• Rated uninterrupted current 76 A, for connection of up to 25 mm²</td> </tr> <tr> <td>• Rated uninterrupted current 125 A, for connection of up to 35 mm²</td> </tr> </tbody> </table>	Versions	• Rated uninterrupted current 32 A, for connection of up to 4 mm ²	• Rated uninterrupted current 76 A, for connection of up to 25 mm ²	• Rated uninterrupted current 125 A, for connection of up to 35 mm ²	<p>8WA2 867</p> <p>50 units</p> <p>8WA2 868</p> <p>50 units</p> <p>8WA2 870</p> <p>50 units</p>												
Versions																	
• Rated uninterrupted current 32 A, for connection of up to 4 mm ²																	
• Rated uninterrupted current 76 A, for connection of up to 25 mm ²																	
• Rated uninterrupted current 125 A, for connection of up to 35 mm ²																	
 <p>8GF9 324-2</p> <p>N-busbars, 6 mm × 6 mm</p> <ul style="list-style-type: none"> • Rated uninterrupted current 125 A • 1109 mm long • For four-field <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.	<p>8GF9 324-2</p> <p>10 units</p>														
Note																	
Prices apply for orders from € 25.00. For orders below € 25.00, a processing charge of € 2.50 net will be added.																	
	<p>Label holders</p> <p>3TX4 210-0J</p>	<p>100 units</p>															

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


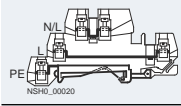
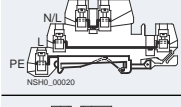
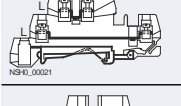

PE, L, L Insta terminal

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	Order No.	MOQ*
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	10/2
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	50 units
	8WA1 011-3JF17	50 units
	8WA1 011-3JF18	50 units
	8WA1 011-3JF20	50 units
	8WA1 822-7TH00	50 units

* You can order this quantity or a multiple thereof.

8WA1 Screw Terminals

8WA Insta or three-tier terminals

	Version	Order No.	MOQ*
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 8WA1 822-7AX01 8WA1 822-7AX03	50 units 50 units 10 units 10 units
 8WA2 870 / 868 / 867	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	50 units 50 units 50 units
 8WA1 808	End retainers, thermoplastic Width 10 mm	8WA1 808	50 units
	Device labels For end retainer, blank label	3TX4 210-0H	100 units
 8WA1 857	Insulation carriers, for mounting insulated support rails	8WA1 857	20 units
	Blank labels For terminal marking	8WA8 848-2AY	100 units
 8GF9 324-2	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	10 units
	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	50 units 50 units 20 units 10 units
	Barriers, for Insta terminals, terminal size 2.5 mm² and measuring transformer terminals, terminal size 6 mm²	8WA1 822-7TH00	50 units

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.

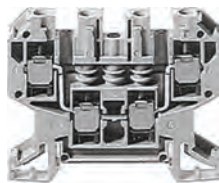
Technical specifications

	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

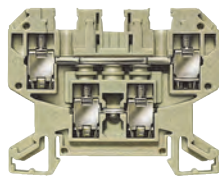
Selection and ordering data

Version	Order No.	MOQ*
General details <ul style="list-style-type: none"> Thermoplastic insulating body Screw terminal at both ends 		
Note	Section	Page
For labeling accessories, see ...	Accessories	10/2

Terminal size 4 mm²



8WA1 011-6DG11



8WA1 011-2DG11

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

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

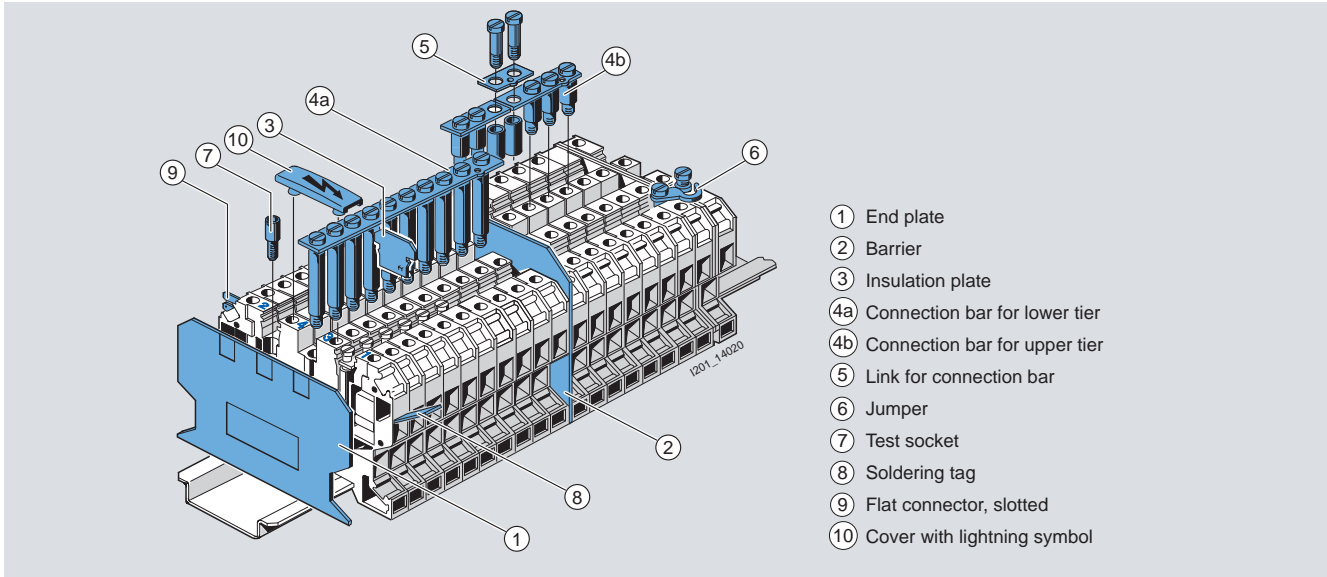
* You can order this quantity or a multiple thereof.

8WA1 Screw Terminals

8WA two-tier terminals

Version	Order No.	MOQ*
Accessories		
Covers		
Versions		
 8WA1 811	<ul style="list-style-type: none"> With lightning symbol, for terminal size 4 and 6 mm² 	8WA1 811 50 units
 8WA1 862	<ul style="list-style-type: none"> White, facility for inscription, for terminal size 4 and 6 mm² 	8WA1 862 50 units
 8WA1 822-7AX01	<ul style="list-style-type: none"> For connection bars, for terminal size 2.5 to 6 mm², transparent 	8WA1 822-7AX01 10 units
Jumpers		
<ul style="list-style-type: none"> For connection bars For terminal size 4 mm² 		
Versions		
<ul style="list-style-type: none"> For upper tier of 2-pole terminals For lower tier of 1 and 2-pole terminals 		
End plates, for two-tier terminals		
8WA1 817 50 units		
Test sockets		
Ø 2.3 mm		
Versions		
 8WA1 854	<ul style="list-style-type: none"> For upper tier of 2-pole terminals For lower tier of 1 and 2-pole terminals 	8WA1 854 100 units 8WA1 884 100 units
Accessories		
Spacer sleeves		
<ul style="list-style-type: none"> For lower tier of 1 and 2-pole terminals 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 50 units
Insulation plates, for terminal size 2.5 to 6 mm²		
 8WA1 825		8WA1 825 50 units
Connection bars		
Versions		
<ul style="list-style-type: none"> For upper tier of 2-pole terminals <ul style="list-style-type: none"> For two terminals For three terminals For four terminals For ten terminals For lower tier of 1 and 2-pole terminals <ul style="list-style-type: none"> For two terminals For ten terminals 		
8WA1 850 50 units 8WA1 851 50 units 8WA1 852 20 units 8WA1 853 10 units		
8WA1 835 50 units 8WA1 838 10 units		
Barriers		
 8WA1 823		8WA1 823 25 units

Design

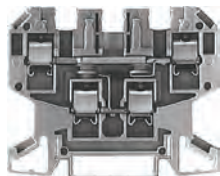


- ① End plate
- ② Barrier
- ③ Insulation plate
- ④a Connection bar for lower tier
- ④b Connection bar for upper tier
- ⑤ Link for connection bar
- ⑥ Jumper
- ⑦ Test socket
- ⑧ Soldering tag
- ⑨ Flat connector, slotted
- ⑩ Cover with lightning symbol

Selection and ordering data

Version	Order No.	MOQ*						
General details <ul style="list-style-type: none"> • Thermoplastic insulating body • Screw terminal at both ends • Open on one side • Beige 								
<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>10/2</td> </tr> </tbody> </table>			Note	Section	Page	For labeling accessories, see ...	Accessories	10/2
Note	Section	Page						
For labeling accessories, see ...	Accessories	10/2						

Terminal size 4 mm²



8WA1 011-6EG20

Diode terminals, terminal size 4 mm²

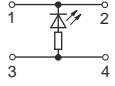
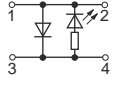
- Rated insulation voltage 250 V
- Mounting width 6.5 mm
- Terminal height 45 mm
- Terminal length 64 mm
- **AWG 18-10**
- **Jumpering not supported**

Type	Order No.	MOQ*						
<ul style="list-style-type: none"> • Rated uninterrupted current 32/1 A 	8WA1 011-6EG20	10 units						
<ul style="list-style-type: none"> • Rated uninterrupted current 32/1 A 	8WA1 011-6EG21	10 units						
<ul style="list-style-type: none"> • Rated uninterrupted current 1 A 	8WA1 011-6EG22	10 units						
<ul style="list-style-type: none"> • Rated uninterrupted current 32/1 A 	8WA1 011-6EG23	10 units						
<ul style="list-style-type: none"> • Rated uninterrupted current 32/1 A 	8WA1 011-6EG24	10 units						
<table border="1"> <thead> <tr> <th>Accessories</th> <th>Section</th> <th>Page</th> </tr> </thead> <tbody> <tr> <td>End plates, for two-tier terminals</td> <td>Accessories</td> <td>9/22</td> </tr> </tbody> </table>			Accessories	Section	Page	End plates, for two-tier terminals	Accessories	9/22
Accessories	Section	Page						
End plates, for two-tier terminals	Accessories	9/22						
	8WA1 817	50 units						

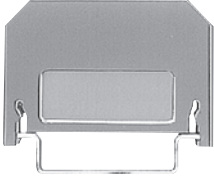
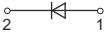



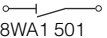
* You can order this quantity or a multiple thereof.

8WA1 Screw Terminals

8WA1 two-tier terminals with electronic components

Version	Order No.	MOQ*				
<p>Terminals with red LED, terminal size 4 mm²</p> <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 						
<p>Type</p> <ul style="list-style-type: none"> Without diode for current limitation 	8WA1 011-6EG25	10 units				
 <ul style="list-style-type: none"> With diode for current limitation 	8WA1 011-6EG26	10 units				
<p>Accessories</p> <p>End plates, for two-tier terminals</p>	<table border="1"> <thead> <tr> <th>Section</th> <th>Page</th> </tr> </thead> <tbody> <tr> <td>Accessories</td> <td>9/22</td> </tr> </tbody> </table>	Section	Page	Accessories	9/22	8WA1 817 50 units
Section	Page					
Accessories	9/22					
 <p>Zener diode terminals, terminal size 4 mm²</p> <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	10 units				
<p>Accessories</p> <p>End plates, for two-tier terminals</p>	<table border="1"> <thead> <tr> <th>Section</th> <th>Page</th> </tr> </thead> <tbody> <tr> <td>Accessories</td> <td>9/22</td> </tr> </tbody> </table>	Section	Page	Accessories	9/22	8WA1 817 50 units
Section	Page					
Accessories	9/22					
<p>Accessories</p> <p>End plates, for two-tier terminals</p>	8WA1 817	50 units				

Selection and ordering data

Version	Order No.	MOQ*
General details <ul style="list-style-type: none"> Thermoplastic insulating body Enclosed at both ends 		
Note	Section	Page
For labeling accessories, see ...	Accessories	10/2
Terminal size 2.5 mm²		
 <p>8WA1 011-1EF20</p>  <p>8WA1 011-1EF20</p>	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 5 units
Accessories <ul style="list-style-type: none"> Test plugs Barriers, for terminal size 1.5 to 4 mm² 	Section Accessories Accessories	Page 9/23 9/23
 <p>8WA1 868</p>	Test plugs Red	8WA1 868 10 units
 <p>8WA1 820</p>	Barriers, for terminal size 1.5 to 4 mm²	8WA1 820 50 units
 <p>8WA1 501</p>  <p>8WA1 501</p>	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 10 units
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.	
Accessories <ul style="list-style-type: none"> Test plugs, red Barriers, for terminal size 1.5 to 4 mm² 	Section Accessories Accessories	Page 9/23 9/23
Accessories	8WA1 868 10 units 8WA1 820 50 units	

* You can order this quantity or a multiple thereof.

8WA1 Screw Terminals

8WA terminals for components

Selection and ordering data

Version	Order No.	MOQ*
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 <i>For labeling accessories, see ...</i>	Section <i>Accessories</i>	Page <i>10/2</i>

Terminal size 1.5 mm²



8WA1 011-1EE00

Terminals for components, terminal size 1.5 mm² (enclosure only)

- 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

5/50 units



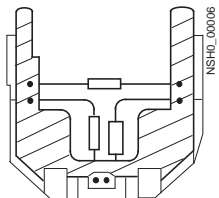
8WA1 822-7EE00

Plugs for components, terminal size 1.5 mm²

- 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)

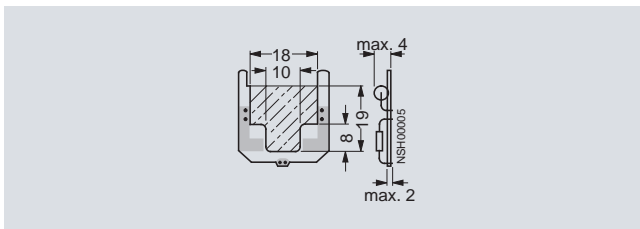
8WA1 822-7EE00

1 unit



Plugs, fully equipped, example

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 1/4" × 1", 1/4" × 1 1/4" (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



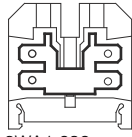



Version	Order No.	MOQ*
General details <ul style="list-style-type: none"> • With thermoplastic insulating body • Screw terminal at both ends for 2 conductors each • Enclosed at both ends 		
Note For labeling accessories, see ...	Section Accessories	Page 10/2
Terminal size 1.5 mm²		
 <p>8WA1 011-1SF12</p>	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 	
 <p>8WA1 011-1SF13</p>	Versions <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 	<p>8WA1 011-1SF12 10 units</p> <p>8WA1 011-1SF13 10 units</p> <p>8WA1 011-1SF14 10 units</p> <p>8WA1 011-1SF15 10 units</p> <p>8WA1 011-1SF30 10 units</p> <p>8WA1 011-1SF31 10 units</p> <p>8WA1 011-1SF32 10 units</p>
Accessories		
 <p>8WA1 822-7EF16</p>	G fuse links DIN 41660	
	Versions <ul style="list-style-type: none"> • Quick-response, high breaking capacity <ul style="list-style-type: none"> - Rated uninterrupted current 1 A - Rated uninterrupted current 1.6 A - Rated uninterrupted current 2.5 A - Rated uninterrupted current 4 A - Rated uninterrupted current 6.3 A • Slow-response, low breaking capacity <ul style="list-style-type: none"> - Rated uninterrupted current 1 A - Rated uninterrupted current 1.6 A - Rated uninterrupted current 2.5 A - Rated uninterrupted current 4 A - Rated uninterrupted current 6.3 A 	<p>8WA1 822-7EF16 10/200 units</p> <p>8WA1 822-7EF18 10 units</p> <p>8WA1 822-7EF21 10 units</p> <p>8WA1 822-7EF23 10 units</p> <p>8WA1 822-7EF25 10 units</p> <p>8WA1 822-7EF76 10 units</p> <p>8WA1 822-7EF78 10 units</p> <p>8WA1 822-7EF81 10 units</p> <p>8WA1 822-7EF83 10 units</p> <p>8WA1 822-7EF85 10 units</p>
 <p>8WA1 891</p>	Bridging links 5 mm × 25 mm	<p>8WA1 891 10 units</p>

* You can order this quantity or a multiple thereof.

8WA1 Screw Terminals

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

Selection and ordering data

Version	Order No.	MOQ*
General details <ul style="list-style-type: none"> • With thermoplastic insulating body • Enclosed at both ends 		
Note	Section	Page
For labeling accessories, see ...	Accessories	10/2
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 50 units
Accessories	Section	Page
• Covers		
- With lightning symbol	Accessories	9/26
- White, facility for inscription	Accessories	9/26
• Barriers, for terminal size 1.5 to 4 mm ²	Accessories	9/26
		8WA1 810 50 units 8WA1 860 50 units 8WA1 820 50 units
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 50 units
 8WA1 232		
Accessories	Section	Page
• Covers		
- With lightning symbol	Accessories	9/26
- White, facility for inscription	Accessories	9/26
• Connection bars		
- For two terminals	Accessories	9/26
- For ten terminals	Accessories	9/26
• Barriers, for terminal size 6 to 16 mm ²	Accessories	9/26
		8WA1 811 50 units 8WA1 862 50 units 8WA1 822-7VH12 50 units 8WA1 822-7VH20 10 units 8WA1 821 50 units
Accessories		
 8WA1 811	Covers	
	Versions	
	• With lightning symbol	
	- For terminal size 1 ... 2.5 mm ²	8WA1 810 50 units
	- For terminal size 6 mm ²	8WA1 811 50 units
	• White, facility for inscription	
	- For terminal size 1 ... 2.5 mm ²	8WA1 860 50 units
	- For terminal size 6 mm ²	8WA1 862 50 units
 8WA1 822-7VH12	Connection bars, for through-type terminal, terminal size 6 mm², with plug-in connection	
	Versions	
	• For two terminals	8WA1 822-7VH12 50 units
	• For ten terminals	8WA1 822-7VH20 10 units
 8WA1 821	Barriers	
	Versions	
	• For terminal size 1.5 ... 4 mm ²	8WA1 820 50 units
	• For terminal size 6 ... 16 mm ²	8WA1 821 50 units

8WA measuring transformer terminals

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 and isolating terminals. 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.

Legend:

- ⊙ Test socket
- Connection bar
- | Small partition
- ⌊ Disconnecting link (closed)
- ⌋ Connecting comb, 2-pole

Type	Number required for			
	①	②	③	④
8WA1 011-1MH10			3	7
8WA1 011-1MH11	1	3		3
8WA1 011-1MH15	1	3	4	3
8WA1 825 a)		2	2	
8WA1 885				3
8WA1 887				1
8WA1 822-7VH10			1 b)	
8WA1 822-7VH01	1	3	3	3
8WA1 822-7PH00				4
8WA1 822-7VH22			1	


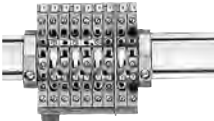
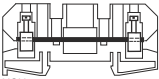


a) In some cases additionally required between instrument sets
b) Shortened


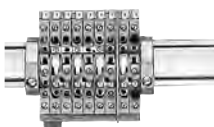
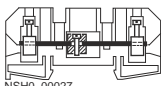


Connection option for measuring transformer terminals (instrument sets)

8WA1 Screw Terminals

8WA measuring transformer terminals

Selection and ordering data


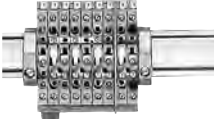
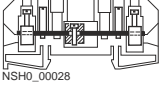







Version	Order No.	MOQ*
General details <ul style="list-style-type: none"> • With thermoplastic insulating body • Screw terminals at both ends and two holes for test sockets for Ø 4 mm test plug, insulated at both ends • Enclosed at both ends 		
Note	Section	Page
For labeling accessories, see ...	Accessories	10/2
Terminal size 6 mm²		
 <p>8WA1 011-1MH10</p>  <p>Typical circuit diagram</p>  <p>NSH0_00026 8WA1 011-1MH10</p>	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 20 units
Accessories <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 10 units 8WA1 822-7AX03 10 units 8WA1 822-7PH00 50 units 8WA1 822-7PH03 50 units 8WA1 822-7PH06 50 units 8WA1 822-7PH08 50 units 8WA1 868 10 units 8WA1 822-7VH01 50 units 8WA1 825 50 units 8WA7 163 10 units 8WA1 822-7VH22 10 units 8WA1 885 50 units 8WA1 886 50 units 8WA1 887 20 units 8WA1 888 10 units 8WA1 822-7VH10 50 units 8WA1 822-7TH00 50 units	

Version	Order No.	MOQ*																																																																				
 <p>8WA1 011-1MH11</p>  <p>Typical circuit diagram</p>  <p>NSH0_00027 8WA1 011-1MH11</p>	<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>8WA1 011-1MH11</p> <p>20 units</p>																																																																				
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* You can order this quantity or a multiple thereof.

8WA1 Screw Terminals

8WA measuring transformer terminals

Version	Order No.	MOQ*																																																																					
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8WA measuring transformer terminals

	Version	Order No.	MOQ*
 8WA7 163	Connection combs For inserting in the clamping points Versions <ul style="list-style-type: none"> • 10-pole for measuring transformer terminals, can be shortened as required • 2-pole 	8WA7 163 8WA1 822-7VH22	10 units 10 units
 8WA1 885	Connection bars, for terminal size 6 mm² Versions <ul style="list-style-type: none"> • Two terminals • Three terminals • Four terminals • Ten terminals • Unmounted for ten terminals 	8WA1 885 8WA1 886 8WA1 887 8WA1 888 8WA1 822-7VH10	50 units 50 units 20 units 10 units 50 units
 8WA1 822-7TH00	Barriers, for Insta terminals, terminal size 2.5 mm² and measuring transformer terminals, terminal size 6 mm²	8WA1 822-7TH00	50 units

* You can order this quantity or a multiple thereof.

8WA1 Screw Terminals

8WA transformer terminals

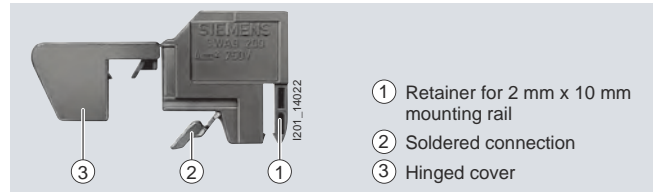
Overview

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	Order No.	MOQ*						
Terminal size 4 mm²								
 <p>8WA9 200 (side view)</p>  <p>8WA9 200 (plan view)</p>	<p>Transformer terminals, terminal size 4 mm²</p> <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 × 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 	<p>8WA9 200</p> <p>100 units</p>						
<p>Accessories</p> <ul style="list-style-type: none"> Labeling strips <ul style="list-style-type: none"> Blank Any inscription 	<table border="1"> <thead> <tr> <th>Section</th> <th>Page</th> </tr> </thead> <tbody> <tr> <td>Accessories</td> <td>9/32</td> </tr> <tr> <td>Accessories</td> <td>9/32</td> </tr> </tbody> </table>	Section	Page	Accessories	9/32	Accessories	9/32	<p>8WA8 848-2AY</p> <p>8WA8 847-OXA</p> <p>100 units 100 units</p>
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