ALPHA FIX Terminal Blocks





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Introduction

Overview

IDC is the abbreviation for Insulation Displacement Connection and means that the insulation of the conductor is cut on both sides together with the spring by the cutting unit. A secure contact is thus established between the conductor and the interconnecting conductor of the terminal. The range for a conductor cross-section of 1.5 mm² includes through-type and PE terminals for two, three and four connections.

Benefits

The advantages of this connection system are quite clear:

- Fast connection
- No stripping of conductor
- Conductor is merely cut to length, inserted, and connected by simply pushing a slide
- End sleeves are no longer required
- Simple handling
 - No special tool required, the screwdriver from the ALPHA FIX SL range can also be used here

Design

These terminal blocks are open on one side and require end plates for the last terminal in a block. The materials used are ecologically harmless, cadmium-free, and without halogens or silicone. The plastics used are made of WEMID, their flammability is V0 acc. to UL.

Mounting

The terminals are snapped onto 35 mm mounting rails acc. to EN 50 022-35 or IEC 112 and IEC 60715 TH35 standards and secured against movement using end retainers. Since the terminals are open on one side, make sure that they are all connected to the rail in the same direction.

Connection of conductors

Thanks to the insulation displacement system, solid, stranded or finely stranded conductors can be clamped safely and permanently from the front and without the use of end sleeves. PVC should be used as the insulation for the conductors, other types of insulation and conductors on request. Repeated connection up to 10 times is guaranteed, but the conductor must be cut to length again each time. The conductor is inserted into the red entry of through-type terminals, and into the yellow entry of PE terminals. The funnel is then pushed into the opposite direction using the screwdriver. A click indicates that the conductor is securely seated.

Testing

The test adapters can be used to test the slide with the throughtype terminals without interrupting operation.

Standards

The terminal blocks with insulation displacement connection comply with the requirements of the IEC 60947-7-1 or -2 and EN 60352-4 standards.

- Safe contact
- Thanks to the reliability of system
- Thanks to selected materials
- Tight fitting of the conductor is ensured through latching-in of the slide
- Space savings
 - Thanks to extremely small version, 5 mm wide
 - An assembly area of max. 100 mm is required for terminals with four connections.

Accessories

Linking system

The same linking system is used as in the compact ALPHA FIX SL range. The 2-, 3-, 4- or 10-pole link rails are inserted into the links from above. The bars can be shortened as required, but note that cover plates (8WA3 522-7WE..) must be inserted to retain the rated voltage of 250 V. Individual poles can be broken off if required.

Cover plates

The cover or end plates protect your fingers in the case of different external contours of the terminals, at the end of a terminal strip and for insulation of the link rails in the links.

End retainers

The 8WA2 808 end retainers are snapped onto the standard mounting rail to prevent the terminals from being shifted out of place.

Screwdrivers

The 8WA2 803 and 8WA2 880 screwdrivers are required to move the slide and to connect the conductor.

Labeling accessories

The 8WA8 84., 8WA8 85. and 8WA8 86. labels can also be used for this range.

Reduction sleeves

The sleeves ensure reliable retention of conductors with cross-sections of 0.25 $\rm mm^2$ and 0.34 $\rm mm^2.$

Test adapters

The test adapters are inserted into the opening above the conductor cross-section, and thus permit testing during operation.

Covers with warning arrow

The purpose of these covers is to identify the power input terminals.

ALPHA FIX Terminal Blocks ALPHA FIX IDC Terminals with Insulation Displacement Connection

Through-type terminals

Selection and ordering da	ta					
Dimensions	Version	Color E	ЭT	Order No.	PS*	Weight per PU approx. kg
Through-type terminals						
59,5	Terminal size 1.5 mm ² , width 5 mm SI AW	G 24-16				
	Through-type terminals, with two clamping points IDC/IDC	Gray A	۱.	8WA3 011-1DE20	50 units	0.008
1977 B	IDC/opring	Blue A	4	8WA3 011-1BE23	50 units	0.008
	ibo/sping	Blue A	A A	8WA3 021-1BE23	50 units	0.008
8WA3 011-1DE20	IDC/screw	Gray A Blue A	A A	8WA3 031-1DE20 8WA3 031-1BE23	50 units 50 units	0.009 0.009
59,5 8WA3 021-1DE20 59,5 59,5 59,5 59,5 59,5 59,5 59,5 59,						
	Through-type terminals, with three clamping					
8WA3 011-1DE30	points IDC/IDC	Gray A Blue A	A A	8WA3 011-1DE30 8WA3 011-1BE33	50 units 50 units	0.011 0.011
·93,5+	Through-type terminals, with four clamping points	s				
8WA3 011-1DE40	IDC/IDC	Gray A Blue A	A A	8WA3 011-1DE40 8WA3 011-1BE43	50 units 50 units	0.014 0.014
Accessories						
	Cover plates For through-type terminals with two clamping points	Gray A		8WA3 522-7WE01	50 units	0.214
	For through-type terminals with three elemning point	Blue A	4	8WA3 522-7WE03	50 units	0.214
		Blue A	Ň	8WA3 522-7WE33	50 units	0.270
8WA3 522-7WE01	For through-type terminals with four clamping points	Gray A Blue A	4	8WA3 522-7WE41 8WA3 522-7WE43	50 units 50 units	0.165 0.165
· · ·	Connection combs	Yellow		8W48 522-7//F02	60 unite	0 060
M Lump	For three terminals For four terminals For ten terminals	Yellow A Yellow A Yellow A		8WA8 522-7VF03 8WA8 522-7VF04 8WA8 522-7VF10	60 units 60 units 20 units	0.099 0.132 0.124
8WA8 522-7VF02	Covers, with warning arrow	Yellow		8WA3 522-7WE06	20 unite	500 U
4444				CINCOLL I WEDD	20 drillo	0.000
	Test adapter	Black A	A	8WA3 522-7WE07	25 units	0.200
1	Reduction sleeve	White A	A.	8WA3 522-7WE00	100 units	0.015

ALPHA FIX Terminal Blocks ALPHA FIX IDC Terminals with Insulation Displacement Connection

PE/ground terminals

Selection and ordering dat	a					
Dimensions	Version	Color	DT	Order No.	PS*	Weight
						per PU approx.
						kg
PE terminals with connection	on to standard mounting rail					
· 59.5 · · ·	PE terminal size 1.5 mm ² , width 5 mm	AWG 24-16				
Section and different 1		Green-yellow	A	8WA3 011-1PE20	50 units	0.012
T(, IOI ,)T	IDC/spring IDC/screw	Green-yellow Green-yellow	A X	8WA3 021-1PE20 8WA3 031-1PE20	50 units 50 units	0.012
8WA3 011-1PE20						
- 59,5						
50						
8WA3 021-1PE20						
59,5						
8WA3 U3 I- IPE2U						
	PE terminals, with three clamping points					
	IDC/IDC	Green-yellow	A	8WA3 011-1PE30	50 units	0.015
+ 93.5 · ·	PF terminals with four clamping points					
telleting genter 1	IDC/IDC	Green-yellow	А	8WA3 011-1PE40	50 units	0.017
True to the state of the state						
Accessories						
	Cover plates					
	For PE terminals with two clamping points	Gray	А	8WA3 522-7WE01	50 units	0.214
	For PE terminals with three clamping points	Gray	А	8WA3 522-7WE31	50 units	0.270
	For PE terminals with four clamping points	Gray	А	8WA3 522-7WE41	50 units	0.165
8WA3 522-7WE01						
	Test adapter	Black	А	8WA3 522-7WE07	100 units	0.015
A COLORING						
1	Reduction sleeve	White	А	8WA3 522-7WE00	100 units	0.015
8						

Introduction

Overview

The compact version of the terminal blocks, especially designed for distribution boards, saves space and the proven spring-loaded system ensures a secure and permanent connection. The range for conductor cross-sections of 2.5 mm² and 4 mm² includes through-type and PE terminals. The clearly defined top contour is retained for two and three connections.

Benefits

The advantages of this range of terminal blocks are:

- Simple connection
 - Front connection
 - No end sleeves required
- Same screwdriver from the ALPHA FIX SL range
- Space savings
 - Thanks to small version

Design

These terminal blocks are open on one side and require end plates. The materials used are ecologically harmless, cadmium-free, and without halogens or silicone. The plastics used are made of WEMID, their flammability is V0 acc. to UL.

Mounting

The terminals are snapped onto 35 mm mounting rails acc. to EN 50022-35 or IEC 112 and IEC 60715 TH35 standards and secured against movement using end retainers. Since the terminals are open on one side, make sure

• that each open side is followed by a closed one and

• that all terminals are connected to the rail in the same direction.

Connection of conductors

Solid, stranded or finely stranded conductors are clamped securely and permanently from the front and without the use of end sleeves. End sleeves need only be used for particularly corrosive applications.

Testing

Testing is possible without interrupting operation by inserting the test adapter into the screwdriver opening and test pin opening.

Standards

DIN VDE 0110 Part 1 DIN VDE 0609 and IEC 60947-7-1 or IEC 60947-7-2

- Flexible linking
 - Two links
 - Same linking accessories as with the IDC terminal blocks
- Uniform labeling accessories for the complete range of terminals

Accessories

Linking system

The same linking system is used as in the ALPHA FIX IDC range. The 2-, 3-, 4- or 10-pole link rails are inserted into the links from above. The bars can be shortened as required. Note that cover plates (8WA8 522-7W...) must be inserted to retain the rated voltage of 250 V. Individual contacts can be broken off if required.

Cover plates

The cover or end plates protect your fingers in the case of different external contours of the terminals, at the end of a terminal strip and for insulation of the link rails in the links.

End retainers

The 8WA2 808 end retainers are snapped onto the standard standard mounting rail to prevent the terminals from being shifted out of place.

Screwdrivers

The 8WA2 803 and 8WA2 880 screwdrivers are used to open the clamping point.

Labeling accessories

The 8WA8 84., 8WA8 85. and 8WA8 86. labels also match this range.

Test adapters

The test adapters are inserted into the opening above the conductor connection, and thus permit testing during operation.

Covers with warning arrow

The purpose of these covers is to identify the power input terminals.

Through-type terminals

Selection and ordering data

Dimensions	Version	Color	DT	Order No.	PS*	Weight per PU
						kg
Through-type terminals	Terminal size 2.5 mm ² , width 5 mm SN AWG 26	-14				
8WA2 511-1DF20	Through-type terminals, with two clamping points	Gray Blue	A A	8WA2 511-1DF20 8WA2 511-1BF23	50 units 50 units	0.005 0.005
50,5 50,5 8WA2 511-1DF30	Through-type terminals, with three clamping points	Gray Blue	A	8WA2 511-1DF30 8WA2 511-1BF33	50 units 50 units	0.007 0.007
61,5	Terminal size 4 mm ² , width 6 mm SN AWG 26-1	0				
8WA2 511-1DG20	Through-type terminals, with two clamping points	Gray Blue	A A	8WA2 511-1DG20 8WA2 511-1BG23	50 units 50 units	0.009 0.009
	Through-type terminals, with three clamping points					
8WA2 511-1DG30		Gray Blue	A	8WA2 511-1DG30 8WA2 511-1BG33	50 units 50 units	0.010 0.010
Accessories						
	Cover plates					
	For 2.5 mm ² through-type terminals	Gray Blue	A A	8WA8 522-7WF01 8WA8 522-7WF03	50 units 50 units	0.003 0.003
	For 4 mm ² through-type terminals	Gray	A	8WA8 522-7WG01	50 units	0.003
8WA8 522-7WG01		Dide	A	6WA0 522-7 WG05	50 units	0.003
	Connection combs					
NIN T	For 2.5 mm ² through-type terminals – For two terminals – For three terminals – For four terminals – For ten terminals	Yellow Yellow Yellow Yellow	A A A	8WA8 522-7VF02 8WA8 522-7VF03 8WA8 522-7VF04 8WA8 522-7VF10	60 units 60 units 60 units 20 units	0.060 0.099 0.132 0.124
8WA8 522-7VF02	For 4 mm ² through-type terminals – For two terminals – For three terminals – For four terminals – For ten terminals	Yellow Yellow Yellow Yellow	A A A	8WA8 522-7VG02 8WA8 522-7VG03 8WA8 522-7VG04 8WA8 522-7VG10	60 units 60 units 60 units 20 units	0.115 0.159 0.173 0.149
L L L L	Covers, with warning arrow					
	For 2.5 mm ² through-type terminals	Yellow	А	8WA8 522-7WF06	20 units	0.010
0VVAO D22-1 WFUO	For 4 mm ² through-type terminals	Yellow	А	8WA8 522-7WG06	20 units	0.020
8WA8 522-7WF07	Test adapters For 2.5 mm ² through-type terminals For 4 mm ² through-type terminals	Black Black	A A	8WA8 522-7WF07 8WA8 522-7WG07	25 units 25 units	0.202 0.215

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PE/ground terminals

Selection and ordering da	ata					
Dimensions	Version	Color	DT	Order No.	PS*	Weight per PU approx.
PE torminals with connect	ion to standard mounting rail					ку
PE terminais with connect	Terminal size 2.5 mm ² width 5 mm	N/G 26-14				
50.5 +	PE terminals, with two clamping points	Green-vellow	А	8WA2 511-1PF20	50 units	0.011
						0.011
- 50,5 · ·	PE terminals, with three clamping points	Green-yellow	A	8WA2 511-1PF30	50 units	0.011
	Terminal size 4 mm ² , width 6 mm 🔊	AWG 26-10				
61,5 9	PE terminals, with two clamping points	Green-yellow	A	8WA2 511-1PG20	50 units	0.015
61,5	PE terminals, with three clamping points	Green-yellow	A	8WA2 511-1PG30	50 units	0.016
Accessories						
	Cover plates					
	For 2.5 mm ² PE terminals	Gray	А	8WA8 522-7WF01	50 units	0.003
	For 4 mm ² PE terminals	Gray	A	8WA8 522-7WG01	50 units	0.003
8WA8 522-7WG01	0					
4444	Covers, with warning arrow	N/ 11				
	For 2.5 mm ² PE terminals	Yellow	A	8WA8 522-7WF06	20 units	0.010
	For 4 mm ⁻ PE terminals	YEIIOW	A	8WA8 522-7WG06	20 units	0.020

Introduction

Overview

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

Advantages

- Fast mounting
- Easy to snap on
- Insulated on both sides, no end plates required
- Simple connection
- -Front connection, no end sleeves required
- 15° angle between screwdriver and conductor
 Same screwdriver for terminal sizes 1.5, 2.5, 4 and 6 mm²
- Same sciewarver for terminal sizes 1.3, 2.3, 4 and 6 min
- busbar
- Small number of linking accessories
- Screwless cross connection system consisting of only 3 accessories: two-pole bridge, link rail with one-pin plugs for terminal sizes 2.5, 4 and 6 mm².
- Uniform labels on cards for the entire terminal range up to 70 mm².

Standards

DIN VDE 0110 Part 1, DIN VDE 0609 and IEC 60947-7-1 or IEC 60947-7-2.

For 8WA2 the size of the connecting holes corresponds to the rated cross-sections of the conductors.

The terminals are finger-safe acc. to IEC 60529 and DIN VDE 0106 Part 100 (except for bare terminals and solder terminations). Through-type terminals are also resistant to earthquakes acc. to IEC 60068-2-6.

Colored terminal blocks

With colored wiring acc. to DIN VDE 0113 Part 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 a link to the mounting rail).

Testing

Testing is possible without interrupting operation by inserting the test plug into the provided opening, whereby the following test plug arrangement must be observed:



Design

The terminal blocks are insulated on both sides. End plates are therefore not required. The symmetrical version of the standard terminals prevents them from being snapped on the wrong way round. The insulating bodies up to and including terminal size 16 are made of thermoplastic, polyamide 6.6 with a tracking resistance of CTI 600 acc. to DIN VDE 0303 Part 1.

The materials used are ecologically harmless: e.g. cadmium-free, and without halogens or silicone.

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



Equipped terminal strip



8WA2 through-type terminal without screws, sectional view

Terminal size

The terminal size corresponds to the rated cross-section. Acc. to DIN VDE 0611 and IEC 60947-7-1, one finely stranded copper conductor without end sleeve can be connected to each clamping point. If the rated cross-section is connected with an end sleeve, the next larger terminal size has to be used. End sleeves should only be used in particularly corrosive ambient atmospheric conditions.

Clamping methods

The clamping point is opened by insertion of the operating device, the conductor is inserted to the stop and is clamped tight after the screwdriver is removed. This method guarantees observation of all national and international tensile requirements. The spring steel of the spring-loaded terminal is of nickel-chromium, ensuring that the contacting between the conductor and the terminal will be corrosion-proof and vibration-resistant.

Mounting

The terminals are snapped onto 35 mm mounting rails acc. to EN 50022-35 or IEC 112 and IEC 60715 TH35 standards and secured against movement using end retainers. A lateral mounting tolerance of 0.2 mm has to be observed.

Conductor connection

Due to the spring-loaded terminal system solid, stranded or finely stranded conductors can be clamped safely and permanently by front insertion and without the use of end sleeves. It is recommended to connect only one conductor per clamping point. The cable entries are designed in such a way that the insulation of the rated conductor cross-section as well as that of the next smaller cross-section cannot be clamped in this opening (the length of insulation to be stripped is printed on the terminal). As a splice protection measure when using finely stranded and very finely stranded conductors, the ends can be tin-coated or compacted by means of ultrasound.

Overview

Connection of aluminum conductors

Spring-loaded terminals are also suitable for solid aluminum conductors of up to 4 mm² if the generally applicable preparation techniques, e.g. brushing and greasing, are used.

Also it has to be taken into account that due to the lower conductivity of aluminum, the rated uninterrupted currents will be lower:

- 1.5 mm² = 10 A
- 2.5 mm² = 16 A
- 4 mm² = 22 A

Accessories

Linking system

The two-pole bridge is used for the linking of adjoining terminals. To connect non-adjacent terminals, the link rail, which can be cut to any required length, is inserted into the links and the terminals are connected with the one-pin plugs.

Bridges and plugs



No linking accessories are necessary for initiator-actuator terminals.

Insulation plates

8WA2 836 or 8WA2 845 insulation plates are used for isolation of the link rails.

Barriers

The yellow barriers protrude from the terminal line and are used as visual separation as well as to increase the rated insulation voltage.

End retainers and accessories

The 8WA2 808 end retainers are snapped onto the standard mounting rails to prevent the terminals from sliding out of place. For isolation of the 8WA2 842 neutral busbar, the 8WA2 837 busbar end (8WA2 826 for Insta terminals) is inserted in the end retainer.

Introduction

There are several options for labeling the end retainers: the 8WA1 806 end label, the 8WA8 826–0A. terminal strip label and 4 labeling plates. The end retainers can also be used for the 8WA1 terminals with the 6×6 mm neutral busbar.

Screwdrivers

The 8WA2 803 and 8WA2 804 screwdrivers are used for opening the clamping points with conductor cross-sections from 1.5 to 6 mm²; for 10 and 16 mm² the 8WA2 806 is used.

Retaining plates

The 8WA2 835 and 8WA2 844 retaining plates are used for fixing the 8WA2 830 link rail in position and for removing it from the linking duct.

Labeling accessories

To allow easier handling, the 8WA8 84. and 8WA8 86. labels are provided in card form with horizontal or vertical inscription, suitable for all terminals from 1.5 to 70 $\rm mm^2.$

The 8WA2 850 label holders are included in the scope of supply of the two-tier terminals. They can also be snapped into the sockets for test plugs on the standard terminals.

The 8WA2 838 group identification label is snapped onto retaining plates or insulation plates.

Lockout

The 8WA2 848 lockout prevents impermissible switching of the neutral disconnector on terminals with a neutral isolating function.

Insulation stop

The 8WA2 82. insulation stops ensure reliable retention of the conductor insulation for thin conductors.

10 × 3 mm neutral busbars and accessories

The 8WA2 805 cover is available for the neutral busbar in order to ensure touch protection.

The 8WA2 843 busbar support is included in the scope of supply of the 8WA2 011-1NK23 and -3JG11 feeder terminals. The busbar support can be inserted into the neutral isolating terminals or the Insta terminals with neutral isolating function in order to fix the 8WA2 842 neutral busbar in position.

Test plugs

The terminals have openings for 8WA1 867 test plugs.

Through-type terminals

Selection and ordering data

With thermoplastic insulating body · Front connection with spring-loaded terminals · 1-pole

			<u> </u>	-	-				
Dimensions	rupted current	Version	Color	Fig. No.	DI	Order No.	PS*	Weight per PU	
	Rated insula-							approx.	
Through-type terminals	with two clampin	a points						ĸġ	
	Terminal siz	e 2.5 mm ² · Width 5.2 r	mm 🔊 AWG 2	8-14 @ AW	G 26	I 5-14			
← <u>60</u> →	24 A 800 V	Through-type terminal	Light gray Red Blue		A A	8WA2 011-1DF20 8WA2 011-1BF21 8WA2 011-1BF23	100 units 100 units 100 units	0.008 0.008 0.008	
CE SIEMENS 82		Barrier	Yellow	1	А	8WA2 811	100 units	0.003	
N. W.		Insulation plate	Yellow	3	А	8WA2 836	100 units	0.001	
8WA2 011-1DF20		Retaining plate for link rail	Light gray	5	A	8WA2 835	100 units	0.001	
4 −−−−65−−−−→	Terminal siz	e 4 mm ² · Width 6.2 mr	m 🔊 AWG 28-	-12 @ AWG	26-1	2			
	32 A 800 V	Through-type terminal	Light gray Red Blue		A A	8WA2 011–1DG20 8WA2 011–1BG21 8WA2 011–1BG23	100 units 100 units 100 units	0.011 0.010 0.010	
		Barrier	Yellow	1	А	8WA2 811	100 units	0.003	
		Insulation plate	Yellow	3	А	8WA2 836	100 units	0.001	
8WA2 011-1DG20		Retaining plate for link rail	Light gray	(5)	А	8WA2 835	100 units	0.001	
≠ 70→	Terminal siz	e 6 mm ² · Width 8.2 mr	m 🔊 AWG 24-	-10 @ AWG	24-1	0			
	41 A 800 V	Through-type terminal	Light gray Blue		A	8WA2 011–1DH20 8WA2 011–1BH23	100 units 100 units	0.016 0.016	
CE SIEMENS		Barrier	Yellow	1	А	8WA2 811	100 units	0.003	
		Insulation plate	Yellow	4	А	8WA2 845	100 units	0.001	
8WA2 011-1DH20		Retaining plate for link rail	Light gray	6	A	8WA2 844	100 units	0.001	
	32 A	Two-pole bridge 1)	Light gray			8WA2 831	100 units	0.002	
	32 A	One-pin plug	Black			8WA2 832	100 units	0.001	
	32 A	Link rail 500 mm long				8WA2 830	20 units	0.029	
←−−− 86−−−− →	Terminal siz	e 10 mm ² · Width 10 m	10 mm ² · Width 10 mm 🔊 AWG 24-8						
The start	57 A 800 V	Through-type terminal	Light gray Blue		A A	8WA2 011–1DJ20 8WA2 011–1BJ23	50 units 50 units	0.026 0.026	
8		Barrier	Yellow		А	8WA2 817	50 units	0.004	
8WA2 011-1DJ20		Finger protection cover (1 pack = 100 units, only available as pack)	Yellow	9	A	8WA2 856	100 units	0.017	
4 89.4 →	Terminal siz	e 16 mm ² · Width 12 m	im 🔊 AWG 24	-6					
The second	76 A 800 V	Through-type terminal	Light gray Blue		A A	8WA2 011–1DK20 8WA2 011–1BK23	50 units 50 units	0.034 0.058	
K 1 1 8		Barrier	Yellow		А	8WA2 817	50 units	0.004	
8WA2 011-1DK20		Finger protection cover (1 pack = 100 units, only available as pack)	Yellow	9	A	8WA2 857	100 units	0.017	
	32 A	Two-pole bridge 1)	Light gray		A	8WA2 851	50 units	0.007	
	32 A	One-pin plug	Black		А	8WA2 852	50 units	0.006	
	32 A	Link rail 500 mm long			А	8WA2 853	5 units	0.072	
1	2	3	4 5	6 (D		8	(9)	
							T		

1) For use without link rail.

Through-type terminals

Selection and ordering data

With thermoplastic insulating body · Front connection with spring-loaded terminals

					-							
Dimensions	Rated uninter- rupted current	Version	Color Fig. No.		DT	Order No.	PS*	Weight per PU approx.				
	Rated insula- tion voltage							kg				
Through-type terminals with	three clamp	ing points										
➡73,5►	Terminal siz	ze 2.5 mm ² · Width 5.2 mm 🔊 AW	G 28-14 (E AW	'G 26	<u>5</u> -14						
	24 A 800 V	Through-type terminal	Light gray Blue		A	8WA2 011–1DF30 8WA2 011–1BF33	100 units 100 units	0.010 0.010				
CE SIEMENS R		Barrier	Yellow	2	А	8WA2 813	100 units	0.003				
		Insulation plate	Yellow	3	А	8WA2 836	100 units	0.001				
8WA2 011-1DF30		Retaining plate for link rail	Light gray	5	А	8WA2 835	100 units	0.001				
→ 79,5 →	Terminal siz	Terminal size 4 mm ² · Width 6.2 mm 🔊 AWG 28-12 🖲 AWG 26-12										
	32 A 800 V	Through-type terminal	Light gray Blue		A	8WA2 011–1DG30 8WA2 011–1BG33	100 units 100 units	0.014 0.014				
CE SIEMENS R		Barrier	Yellow	2	А	8WA2 813	100 units	0.003				
		Insulation plate	Yellow	3	А	8WA2 836	100 units	0.001				
8WA2 011-1DG30		Retaining plate for link rail	Light gray	5	А	8WA2 835	100 units	0.001				
1-pole through-type termina	ls with four o	lamping points										
	Terminal siz	ze 2.5 mm ² · Width 5.2 mm A AW	G 28–14 🛙	AW	G 26	-14						
87	24 A 800 V	Through-type terminal	Light gray Blue		A	8WA2 011–1DF40 8WA2 011–1BF43	100 units 100 units	0.012 0.012				
28.0		Barrier	Yellow	\bigcirc	А	8WA2 813	100 units	0.003				
		Insulation plate	Yellow	3	А	8WA2 836	100 units	0.001				
8WA2 011-1DF40		Retaining plate for link rail	Light gray	5	А	8WA2 835	100 units	0.001				
	32 A	Two-pole bridge ²)	Light gray			8WA2 831	100 units	0.002				
	32 A	One-pin plug	Black			8WA2 832	100 units	0.001				
	32 A	Link rail 500 mm long				8WA2 830	20 units	0.029				

Two-tier terminals

Selection and ordering data

Dimensions	Rated uninter- rupted current Rated insula- tion voltage	Version	Color	Fig. No.	DT	Order No.	PS*	Weight per PU approx. kg
1/2-pole two-tier terminals with	th four clam	ping points						
	Terminal siz	12						
88,2	32 A 690 V	2-pole with 2×2 clamping points	Light gray ¹) Blue		A	8WA2 011–2DG20 8WA2 011–2BG23	100 units 100 units	0.018 0.017
	32 A 800 V	1-pole with 1 × 4 clamping points	Light gray Blue		A	8WA2 011–2DG40 8WA2 011–2BG43	100 units 100 units	0.018 0.018
ě – – – – – – – – – – – – – – – – – – –		Barrier	Yellow	1	А	8WA2 812	100 units	0.004
		Insulation plate	Yellow	3	А	8WA2 836	100 units	0.001
8WA2 011-2DG20		Retaining plate for link rail	Light gray	5	А	8WA2 835	100 units	0.001
Version: 2-pole		Label holders (included in scope of delivery of two-tier terminals, can also be used for through- type terminals)	Light gray	8	A	8WA2 850	50 units	0.001
1-pole	32 A	Two-pole bridge ²)	Light gray			8WA2 831	100 units	0.002
	32 A	One-pin plug	Black			8WA2 832	100 units	0.001
115000004	32 A	Link rail 500 mm long				8WA2 830	20 units	0.029

For further accessories, see Page 14/18, for labeling accessories, see Page 14/45.

1) Delivery includes 2 label holders, a further 2 can be fitted.

2) For use without link rail.

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Neutral isolating terminals

Selection and ordering data

With thermoplastic insulating body \cdot Front connection with spring-loaded terminals \cdot 1-pole with one clamping point

Dimensions	Rated uninter- rupted current	Version	Color	DT	Order No.	PS*	Weight per PU approx.
	tion voltage						kg
€8,5>	Terminal size	e 4 mm ² · Width 6.2 mm 🔊	AWG 28-12 🛽 AWG	G 26-*	12		
8WA2 011-1NG23	32 A Isolating distance 400 V	Neutral isolating terminal	Blue	•	8WA2 011–1NG23	100 units	0.015
€71	Terminal siz	e 6 mm ² · Width 8.2 mm 🔊	AWG 24-10 @ AW	G 24- ⁻	10		
	41 A Isolating distance 400 V	Neutral isolating terminal	Blue	•	8WA2 011–1NH23	100 units	0.021
8WA2 011-1NH23 8WA2 011-3JH10	41 A	Neutral isolating terminal High Insta terminal level, for mixin standard and Insta terminals on th standard mounting rail	Blue g e	A	8WA2 011–3JH10	100 units	0.021
89,4	Terminal size	e 16 mm ² · Width 12 mm 🔊	AWG 24-6				
	76 A Isolating distance 400 V	Neutral isolating terminal	Blue	A	8WA2 011–1NK20	50 units	0.038

Accessorie	es							
j	the second		Neutral busbar support	Blue	A	8WA2 843	50 units	0.001
81//42 8//3	, 1 r		Lockout	Yellow	А	8WA2 848	50 units	0.001
8WA2 848		Neutral busbar end for insertion into 8WA2 808 end retainer	Blue	A	8WA2 837	100 units	0.001	
8WA2 837		135 A	Neutral busbar 10 × 3 mm; tin-coated 1000 mm long		A	8WA2 842	10 units	0.267
3.			Cover for neutral busbar 500 mm long	Transparent	A	8WA2 805	10 units	0.013
8WA2 842		68 A 800 V	Feeder terminal 16 mm ² Width 10 mm With screw connection (delivery includes the 8WA2 843 neutral busbar support)	Blue	A	8WA2 011–1NK23	50 units	0.028
8WA2 805			Feeder terminal for 10 x 3 mm and 6 x 6 mm neutral busbars Up to 4 mm ² Up to 25 mm ² Up to 35 mm ²	Bare	A A A	8WA2 867 8WA2 868 8WA2 870	250 units 100 units 100 units	0.004 0.014 0.019



æ 74

8WA2 011-1NK23



8WA2 867/868/870



PE terminals

Selection and ordering data	l						
Dimensions	Rated uninter- rupted current	Version	Color	DT	Order No.	PS*	Weight per PU approx.
	Rated insula- tion voltage						kg
PE terminals with 2 clamping	points and	connection to standard mou	nting rail				
60 +	Terminal siz	e 2.5 mm ² · Width 5.2 mm					
		PE terminal	Green-yellow	•	8WA2 011–1PF20	100 units	0.011
← 65	Terminal siz	e 4 mm ² · Width 6.2 mm					
		PE terminal	Green-yellow	•	8WA2 011–1PG20	100 units	0.014
← 70→	Terminal siz	e 6 mm ² · Width 8.2 mm					
		PE terminal	Green-yellow	•	8WA2 011–1PH20	100 units	0.019
4 −−−−−− 8 6−−−− →	Terminal siz	e 10 mm ² · Width 10 mm					
		PE terminal	Green-yellow	A	8WA2 011–1PJ20	50 units	0.032
k 80.4 bl	Terminal siz	e 16 mm ² · Width 12 mm					
		PE terminal	Green-yellow	A	8WA2 011–1PK20	50 units	0.041
		Two-pole bridge PE/ground/N function: 10/16 mm ² connect blue through-type terminal to PE terminal 10/16 mm ²	Yellow	A	8WA2 854	50 units	0.007
PE terminals with 3 clamping	points and	connection to standard mou	nting rail				
	Terminal siz	e 2.5 mm ² · Width 5.2 mm PE terminal	Green-yellow	•	8WA2 011–1PF30	100 units	0.013
4	Terminal siz	e 4 mm ² · Width 6.2 mm					
		PE terminal	Green-yellow	•	8WA2 011–1PG30	100 units	0.017
PE terminals with 4 clamping	points and	connection to standard mou	nting rail				
	Terminal siz	e 2.5 mm ² · Width 5.2 mm PE terminal	Green-yellow	A	8WA2 011–1PF40	100 units	0.015

Fuse terminals

Overview

Fuse terminals are used to protect control circuits from short circuit.

The fuse terminals are intended for G fuse links 5 mm × 20 mm and $5\,\text{mm}\times25\,\text{mm}$ up to 6.3 A and 250 V and for bridging links up to 16 A and 800 V and have a location for a replacement fuse link.

Fuse terminals are positive opening fuse-disconnectors.

The fuse links must be replaced at zero voltage.

Touch protection is provided in both closed and open positions.

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

The fixing base of the terminal allows both centered and recessed mounting, allowing the unhindered routing of a 10 mm x 3 mm copper busbar. The fuse terminal can therefore be joined into a single group with the other terminals of a branch.

Selection and ordering data

With thermoplastic insulating body · Front connection with spring-loaded terminals

Dimensions	Rated unin- terrupted current	Version	Version DT			PS*	Weight per PU approx.
	Rated insula- tion voltage						kg
1	Terminal si	ze 4 mm ² · Width 10	mm				
	6.3 A ¹) 800 V	Fuse terminal	Light gray		8WA2 011-1SG20	50 units	0.021
a Line I	16 A ²) 800 V	Bridging link (5 mm × 25 mm)		A	8WA1 891	10 units	0.004
79.5	6.3 A 24/250 V	Fuse terminal With LED, 24 V AC/DC	Light gray	A	8WA2 011-1SG21	50 units	0.022
1. 4 2	6.3 A 48/250 V	Fuse terminal With LED, 48 V AC/DC	Light gray	A	8WA2 011-1SG22	50 units	0.022
	6.3 A 230/250 V	Fuse terminal With LED, 230 V AC/DC	Light gray	A	8WA2 011-1SG23	50 units	0.021
8WA2 011–1SG20	1 A 1.6 A 2.5 A 4 A 6.3 A 250 V	G fuse links (5 mm × 20 mm)	IEC 60127-2, DIN VDE 0820 Part 22, quick, high breaking capacity: 1.5 kA	A A A A	8WA1 822-7EF16 8WA1 822-7EF18 8WA1 822-7EF21 8WA1 822-7EF23 8WA1 822-7EF23 8WA1 822-7EF25	10 units 10 units 10 units 10 units 10 units	0.001 0.001 0.001 0.001 0.001
8WA1 891	1 A 1.6 A 2.5 A 4 A 6.3 A 250 V	Fuse links (5 mm × 20 mm)	IEC 60127-2, DIN VDE 0820 Part 22, slow, low breaking capacity: $35 \text{ A at } I_n \le 2.5 \text{ A}$ $10 \times I_n \text{ at } I_n > 2.5 \text{ A}$	A A A A	8WA1 822-7EF76 8WA1 822-7EF78 8WA1 822-7EF81 8WA1 822-7EF83 8WA1 822-7EF83 8WA1 822-7EF85	10 units 10 units 10 units 10 units 10 units	0.001 0.001 0.001 0.001 0.001

Terminals for components

Selection and ordering data

Dimensions		Rated unin- terrupted current	Version	Color	DT	Order No.	PS*	Weight per PU approx.
		Rated insula- tion voltage						kg
		Terminal si	ze 4 mm ² · Width 10) mm			_	
		6.3 A	Basic enclosure	Light gray	А	8WA2 011-1SG28	50 units	0.019
415		500 V to next terminal	For self-fitting with components					
◄79.5►		6.3 A / 0.65 W	Plug with PCB For components and	Light gray	A	8WA1 822-7EE00	1 unit	0.009
8WA2 011-1SG28			label (20 mm x 9 mm)					
36 max 4	A B.:	32 A	Two-pole bridge ³)	Light gray		8WA2 831	100 units	0.002
		32 A	One-pin plug	Black		8WA2 832	100 units	0.001
		32 A	Link rail 500 mm long			8WA2 830	20 units	0.029
8WA1 822-7EE00	Plug completely							

equipped.

example 1) When using fuses.

2) When using the bridging link.

3) For use without link rail

Space for

components

Diode terminals

Selection and ordering data	NWith thermo	plastic insulating bod	ly · Front co	nnection with sp	oring	-loaded terminals		
Dimensions	Rated uninter- rupted current	Version	Color	Arrangement of components	DT	Order No.	PS*	Weight per PU approx.
	Rated insula- tion voltage							kg
	Terminal siz	e 2.5 mm ² · Width 5.2	2 mm					
	1 A	Diode terminal ¹)	Light gray	<u>2 </u>	A	8WA2 011–1EF20	100 units	0.009
	Terminal siz	e 4 mm ² · Width 6.2 n	nm					
SIEMENS SIEMENS	32/1 A 250 V	Diode terminal ²)	Light gray		A	8WA2 011–6EG20	100 units	0.018
				°1 2 °3 ⊠ 4	A	8WA2 011-6EG21	100 units	0.017
8WA2 011–6EG20	1 A 250 V	Diode terminal ²)	Light gray		A	8WA2 011-6EG22	100 units	0.017
	32/1 A 250 V	Diode terminal ²)	Light gray		A	8WA2 011–6EG23	100 units	0.018
					A	8WA2 011–6EG24	100 units	0.017
88,2 88,2 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	32 A 24 V	Terminal with red LED	Light gray		A	8WA2 011–6EG25	100 units	0.018
La Christian all and	22.4	Two polo bridgo ³	Light gray			9WA2 921	100 unite	0.002
8WA2 011-6EG25	32 A		Eigni gray Black			8WA2 832	100 units	0.002
	32 A	Link rail 500 mm long	Diach			8WA2 830	20 units	0.029

Sliding-link terminals

Selection and ordering data

Dimensions	Rated uninter- rupted current	Version Color		DT	Order No.	PS*	Weight per PU approx.
	Rated insula- tion voltage						kg
	Terminal siz	e 2.5 mm ² · Width 5.2	mm				
Ri ci Biver	16 A 400 V	Isolating terminal for isolation of current path without disconnecting the conductors	Light gray h	A	8WA2 011-1LF20	50 units	0.010
4.10 (4.1)	32 A	Two-pole bridge ³)	Light gray		8WA2 831	100 units	0.002
	32 A	One-pin plug	Black		8WA2 832	100 units	0.001
8WA2 011–1LF20	32 A	Link rail 500 mm long			8WA2 830	20 units	0.029

Peak blocking voltage 1000 V.
 Peak blocking voltage U_{RRM} 1000 V.
 For use without link rail.

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Insta or three-tier terminals

Overview

The Insta terminals incorporate up to 3 different terminal functions in one insulating body of 6.2 mm width. With only two terminals a complete three-phase feeder (L₁, L₂, L₃, PE/ground, N) can be set up and each phase can be bridged and multiplied by the 3 cross connection links. The dimensions comply with the requirements for mounting distribution boards in public buildings. The neutral busbar has a different height than the neutral isolating terminals; for the infeed, the 16 mm² feeder terminal 8WA2 011–3JG11 or 8WA2 846 is used.

L, L, L Insta terminal

The 8WA2 011-3JG30 terminal includes three through-type connections for phase conductors, i.e. three potentials can be multiplied with one terminal.

PE/ground, L, NT Insta terminal

The 8WA2 011–3JG10 terminal is the basic model for AC circuits. It comprises:

- PE/ground connection
- Through-type connection for one phase conductor (L1)
- Neutral conductor connection which can be isolated from the 10 mm × 3 mm neutral busbar by means of a slide.

A complete three-phase feeder requires an additional 8WA2 011– 3JG12 (L₂, L₃) terminal. The three-phase feeder can be multiplied by means of the linking system described below.

PE/ground, L, N Insta terminal

If no neutral isolation is required, the 8WA2 011–3JG17 terminal is used:

• PE/ground connection

Dimensions

2

(4)

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

Selection and ordering data

116.7

-73.9 ------70 With thermoplastic insulating body · Front connection with spring-loaded terminals

	· · · · · · · · · · · · · · · ·			1-	9			
	Rated uninter- rupted current	Version		Fig. No.	DT	Order No.	PS*	Weight per PU approx.
1	Rated insula- tion voltage							kg
2.1	Terminal size 32 A 400 V between phase cond. 250 V between phase cond., PE terminal and neutral isolat-	4 mm ² · Width 6.2 mm [®] 9 Insta terminal	AWG 28- PE, L, NT L, L ¹) PE, L, L PE, L, N L, L	12	A A A	8WA2 011-3JG10 8WA2 011-3JG12 8WA2 011-3JG15 8WA2 011-3JG16 8WA2 011-3JG16 8WA2 011-3JG18	100 units 100 units 100 units 100 units 100 units 100 units	0.031 0.024 0.021 0.028 0.028 0.024
4	ing terminal	Three-phase outgoing terminal	L, L, L j			8WA2 011–3JG30	100 units	0.021
	Insta termin	al accessories						
6	68 A 800 V	Feeder terminal, width 10 mm, 16 mm ² (the 8WA2 843 neutral busbar rail is included in the scope of sup- ply)	Blue	2	A	8WA2 011–3JG11	50 units	0.030
	41 A	Neutral isolating terminal high Insta terminal level, for mix- ing standard and Insta terminals on the standard mounting rail	Blue	3	A	8WA2 011–3JH10	100 units	0.021
		Barrier	Yellow	4	А	8WA2 816	100 units	0.005
		Neutral busbar end for neutral busbar 10×3 mm, for insertion in end retainer	Gray	5	A	8WA2 826	100 units	0.002
		Neutral busbar support	Blue	6	А	8WA2 843	50 units	0.001
		Lockout	Yellow	1	А	8WA2 848	50 units	0.001

8WA2 011-3JG121)

8WA2 011-3JG18

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8WA2 808 end retainer with 8WA2 826 busbar end piece

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8WA2 011-3JG10

8WA2 011-3JG16, -3JG17

8WA2 011-3JG15



8WA2 011-3JG30

Three-phase outgoing lines (L_1, L_2, L_3) can be multiplied using this terminal.

The version of the 8WA2 011–3JG16 terminal is similar to that of the 8WA2 011–3JG17 terminal; instead of a through-type connection for the N-conductor, a through-type connection for a second phase conductor has been provided.

L and L, L Insta terminal

The 8WA2 011–3JG15 and

8WA2 011-3JG18 terminals respectively include one and two through-type connec-

tions for phase conductors.

Example strip fitted with Insta terminals

3 links

Link

rail

Bridge

Plug

Linking accessories

Overview

The 8WA2 831 (8WA2 851)²) two-pole bridge is used for linking adjoining terminals. To connect non-adjacent terminals, the 8WA2 830 (8WA2 853)²) link rail, which can be cut to any required length, is inserted into the links and the terminals are connected with the 8WA2 832 (8WA2 852)²) one-pin plugs.

Bridges and plugs

With 8WA2 831, the 10 $\rm mm^2$ and 16 $\rm mm^2$ through-type terminals can be linked to 6 $\rm mm^2$ terminals.

With the yellow 8WA2 584 2-pole bridge, the PE terminal (10 or 16 mm²) can be connected to the PE/ground/N function with a blue through-type terminal (10 or 16 mm²). For individual mounting, use end retainers on both sides.

No linking accessories are necessary for initiator-actuator terminals.

Selection and ordering data

	Rated uninter- rupted current	Version	Color	Fig. No.	DT	Order No.	PS*	Weight per PU approx.
								kg
\bigcirc	Terminal size	$\approx 2.5 \text{ mm}^2$ to 6 mm ²						
1 Alexandre and a second secon	32 A	Two-pole bridge 1)	Light gray	\bigcirc		8WA2 831	100 units	0.002
MA	32 A	One-pin plug	Black	8		8WA2 832	100 units	0.001
ŲŲ	32 A	Link rail 500 mm long		9		8WA2 830	20 units	0.029
(8) (9)	Terminal size	es 10 mm ² to 16 mm ²						
	76 A	Two-pole bridge ¹)	Light gray	\bigcirc	А	8WA2 851	50 units	0.007
U.S.	76 A	Two-pole bridge ¹) PE/ground/N function	Yellow		A	8WA2 854	50 units	0.007
	76 A	One-pin plug	Black	8	А	8WA2 852	50 units	0.006
	76 A	Link rail 500 mm long		9	A	8WA2 853	5 units	0.072

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1) For use without link rail.
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2) Values in brackets for terminal sizes 10 and 16 mm².

Other accessories

Selection and ordering data

`								
Dimensions	Rated unin- terrupted current	Version	Color	Fig. No.	DT	Order No.	PS*	Weight per PU approx.
	Rated insula- tion voltage							kg
0	Terminal si	zes 2.5 to 16 mm ²						
		Barrier (1 × 2) width 1 mm Barrier (1 × 3) width 1 mm Barrier width 1 mm Barrier, two-tier width 1 mm	Yellow Yellow Yellow Yellow	1213	A A A	8WA2 811 8WA2 813 8WA2 817 8WA2 812	100 units 100 units 50 units 100 units	0.003 0.003 0.004 0.004
		End retainer, width 9 mm Suitable for end label 8WA1 806 or terminal strip label 8WA8 826-OA or device label -OH or 4 labels 8WA8, (can also be used for neutral busbar 6×6 mm as retainer)	Light gray	4	•	8WA2 808	100 units	0.011
		Neutral busbar end for neutral busbar 10×3 mm for insertion into end retainer	Blue	5	А	8WA2 837	100 units	0.001
		Group label I = 100 mm	White	6	А	8WA2 838	50 units	0.001
		Label holder	Light gray	\bigcirc	А	8WA2 850	50 units	0.001
		Screwdriver up to 6 mm ²						
		Length: approx. 100 mm; 3.5 × 0.5 Length: approx. 175 mm; 3.5 × 0.5 Length: approx. 175 mm; 3.5 × 0.5 partially	Orange Green Green	8 9 9	A A A	8WA2 804 8WA2 803 8WA2 880	1 unit 1 unit 1 unit	0.012 0.024 0.034
		Screwdriver up to 16 mm ² Length: approx. 175 mm; 5.5 × 0.8	Green	9	А	8WA2 806	100 units	0.063
	Terminal si	zes 2.5 and 4 mm ²						
§		Insulation stop for conductors 0.08-0.2 mm ² (200 strands quintuple) 0.25-0.5 mm ² (200 strands quintuple) 0.75-1.5 mm ² (200 strands quintuple)	White Light gray Dark gray	10	A A A	8WA2 820 8WA2 821 8WA2 822	1000 units 1000 units 1000 units	0.078 0.066 0.062
		Insulation plate	Yellow	(11)	А	8WA2 836	100 units	0.001
		Retaining plate for link rail	Light grav	(1)	А	8WA2 835	100 units	0.001
	Terminal ai	700.4 and 6 mm^2	Light gray	C				
	ierminai si	Neutral busbar support (separate) for neutral isolating terminals	Blue	13	A	8WA2 843	50 units	0.001
		Lockout for neutral isolating terminals	Yellow	(14)	А	8WA2 848	50 units	0.001
6	135 A	Neutral busbar 10 × 3 mm, tin-coated, 1000 mm long		(15)	A	8WA2 842	10 units	0.267
		Cover for neutral busbar, 500 mm long	Transpar- ent	(16)	А	8WA2 805	10 units	0.013
	Terminal si	zes 6 mm ²						
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		Insulation plate	Yellow	(\overline{D})	А	8WA2 845	100 units	0.001
		Retaining plate for link rail	Light grav	10	Δ	8WA2 844	100 units	0.001
P	Tenerical		Lignicylay	•	~	511AL 011	100 units	0.001
	ierminal si							
9	68 A 800 V	Feeder terminal 4 to 16 mm ² , with screw connection for neutral isolating terminals (8WA2 843 neutral busbar support is included in the scope of supply)	Blue	(19)	A	8WA2 011–1NK23	50 units	0.028
® aaaaa	32 A 76 A 125 A	Feeder terminal for 10 \times 3 mm and 6 \times 6 mm neutral busbars Up to 4 mm ² Up to 4 mm ² Up to 25 mm ² Up to 35 mm ²	Bare Bare Bare	20	A A A	8WA2 867 8WA2 868 8WA2 870	250 units 100 units 100 units	0.004 0.014 0.019
) ®	SIEI Transformer				

For linking accessories, see Page 14/17, for labeling accessories, see Page 14/45.

Initiator/actuator terminals

Overview

- \bullet Fast and inexpensive connection from signal transmitters to the PLC
- Only 5 mm wide and still a connection possibility for proximity switches with up to three conductors plus shielding
- Connecting is clear, simple and safe because:
 - It is done from the front
 - The connections are colored
- The conductors of only 0.08 to 1.5 mm² without end sleeves are secured using spring-loaded terminals.
- LEDs make the switch states or the application of voltage visible. It is no longer necessary to test with measuring instruments.
- Connection modules save time and wiring overhead since the potentials of the terminals (L+, L- and S) are automatically connected; linking accessories are superfluous.



Terminals and connection modules (always order as combined unit)

• The modules contain a feeder terminal and 8 or 17 initiator-actuator terminals and can be snapped or screwed onto 35 mm standard mounting rails.

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

A PE/ground connection can be established by inserting the 8WA2 827 yellow PE/ground sleeve into the green shield connection S.

The 8WA2 86. socket connectors provide the option of a plug-in 8-pole group output for the signal circuit. Unused positions on the connecting module can be covered with the 8WA2 847 separable 8-pole cover.



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

Initiator/actuator terminals

Selection and ordering data

With thermoplastic insulating body · Front connection with spring-loaded terminals PS* Weight per PU Dimensions Rated uninter- Version²) Colo Fig. DT Order No rupted current No approx Rated insulation voltage kg Terminal size 1.5 mm² · Width 5 mm **PNP** - - AF - -Feeder terminal (L+, L–, S) without LED (L+, L–) without LED (L+, L–, S) with green LED, 15–30 V (L+, L–, S) with green LED, 30–65 V 10 A 65 V¹) Orange 8WA2 011-3KE00 50 units 0.012 Orange Orange Orange A A A 8WA2 011-3KE01 8WA2 011-3KE02 100 units 50 units 0.010 0.012 8WA2 011-3KE00 50 units 8WA2 011-3KE03 0.011 Initiator terminal (current consumption with LED 4.8 mA) (L+, L-, A) without LED (L+, L-, S, A) without LED (L+, L-, S, A) with yellow LED, 15–30 V (L+, L-, A) with yellow LED, 15–30 V (L+, L-, A) with yellow LED, 30–65 V (L+, L-, A) with yellow LED, 30–65 V 8WA2 011-3KE10 50 units 0.011 10 A 65 V¹) Light grav AAAAA 50 units 50 units 8WA2 011-3KE11 8WA2 011-3KE12 8WA2 011-3KE13 8WA2 011-3KE13 8WA2 011-3KE14 0.012 0.011 0.012 0.011 Light gray Light gray Light gray Light gray Light gray 50 units 50 units 5 -, S, A) with yellow LED, 30–65 V 8WA2 011-3KE15 50 units 0.011 Actuator terminal (current consumption with LED 4.8 mA) (L–, S, A) without LED (L–, S, A) with yellow LED, 15–30 V (L–, S, A) with yellow LED, 30–65 V Light gray Light gray Light gray 8WA2 011-3KE31 8WA2 011-3KE33 50 units 50 units 0.011 10 A 65 V¹) Initiator terminal 8WA2 011-3KE13 A A A 0.011 with connection module 8WA2 011-3KE35 50 units 0.011 NPN Feeder terminal (L+, L–, S) without LED Orange (L+, L–) without LED or ground connection Orange 8WA2 011-3KE00 0.012 10 A 65 V¹) 50 units A 8WA2 011-3KE01 100 units 0.010 Initiator terminal 8WA2 011-3KE22 (L+, L-, A) with yellow LED, 15-30 V Light gray А 50 units 0.011 10 A 65 V ¹) Actuator terminal 8WA2 011–3KE33 with LED Actuator terminal 10 A 65 V¹) (L+, S, A) without LED Light gray А 8WA2 011-3KE30 50 units 0.010 Connection module for all PNP and NPN terminals _B (L+, L-, S integrated) for 8 initiator/actuator Black terminals and 1 feeder terminal (L+, L-, S integrated) for 16 initiator/ Black actuator terminals, one feeder terminal and space for one terminal for further linking for subsequent module 10 A 65 V¹) 1 А 8WA2 011-3KE50 10 units 0.017 А 8WA2 011-3KE51 0.035 5 units Me Õ Т Accessories Cover for connection module, 8-pole, separable Black 2 А 8WA2 847 10 units 0.004 Female multipoint connector, 8-pole, straight 8WA2 865 0.009 Gray 3 A 1 unit 8WA2 866 angled Gray А 1 unit 0.009 8WA2 011-3KE50, -3KE51 Plug connector, 8-pole Gray 4 А 8WA2 862 1 unit 0.014 Coding element, latching White (5) А 8WA2 863 0.001 1 unit **Operating device** White 6 А 8WA2 864 1 unit 0.032 Dimen--3KE50 -3KE51 Screwdrivers Length: approx. 100 mm; 3.5×0.5 Length: approx. 175 mm; 3.5×0.5 8WA2 804 8WA2 803 0.012 1 unit Orange () (8) A A Green 1 unit 47 65 93 65 PE/ground identification Sleeve for insertion into shield connection (10 strands 9-fold) (9) А 8WA2 827 1000 units 0.002 Yellow Insulation stop, for insertion into conductor guide, pro-vides secure holding of conductor insulation with thin initi-ator conductors 0.08–0.2 mm² (200 quintuple strands) 0.25–0.5 mm² (200 quintuple strands) 0.75–1.0 mm² (200 quintuple strands) White (10) 8WA2 820 1000 units 0.078 A A A Light gray Dark gray 8WA2 821 1000 units 0.066 8WA2 822 1000 units 0.062 1 2 3 (4) (9) TREES FOR 33333 man (6) 8WA2 862 with 8WA2 862 with 10000 8 8WA2 865 8WA2 866

For labeling accessories, see Page 14/45.

- 1) The terminals are suitable for 250 V, pollution severity 2.
- 2) L+ = brown S (shield) = green L- = blue A (output), connection not colored



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General technical data

Technical specifications

Continuous load at increased ambient temperatures

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

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

 $I_{\rm th2}$ = Thermal current acc. to with selection tables, in relation to the ratedcross-section

 $I_{\rm th2}'$ = Thermal current at increased ambient temperature k = Reduction factor acc. to the table

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

The maximum terminal overtemperature of 45 K acc. to IEC 60 947-7-1 and DIN VDE 0611, Part 1, is not exceeded at ambient temperatures up to 100 $^\circ\text{C}.$

Connections

Standard mounting rails as PEN rails

Only rails made of copper can be used.

The same current-carrying capacity as with protective-conductor busbars is to be used as a basis.

PEN rails can only carry terminals, not devices.

Standard mounting rails as protective conductor busbars

Protective conductors with a larger cross-section than the equally conductive cross-section of the protective-conductor busbars can be connected to standard mounting rails which are also protectiveconductor busbars and only carry current in the event of a fault.

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

Terminal size	Туре	Thread diameter of connection screws	Screwdriver size acc. to DIN 5264	Torque ²) = test torque	Tensile force to IEC 60947-1	Stripped length
			0WA2 005 01 0WA2 004)	Nm	N	mm
1.5	8WA2 011–3KE ³)	-	0.5 × 3.5	-	30	8–9
2.5	8WA2 011- ³)	-	0.5 × 3.5	-	50	7–9
4	8WA2 011- ³)	-	0.5 × 3.5	-	50	8–10
6	8WA2 011-3)	-	0.5 × 3.5	-	60	11–13
10	8WA2 011-4)	-	0.8 × 5.5	-	-	-
16	8WA2 011–1NK23, 8WA2 011–3JG11	M 4	0.8 × 4	1.2	100	13
25	8WA2 846	M 6	1.2 × 6.5	2.5	135	-

Rated impulse withstand voltage of terminal block

Values dependent on the rated voltage of power supply ≤ rated insulation voltage of terminal block; extract from EN 60947-1, Table H.1. Terminal blocks are tested acc. to overvoltage category III.

Rated voltage of power supply (≤ rated insulation voltage of device)	age of power supply Maximum rated operating voltage against ground Preferred values of rated impulse withstand voltage against ground Overvoltage category				1.2/50 μ s pulse
RMS value AC V	RMS value AC or DC V	l kV	ll kV	lli 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

 With 8WA1 010–1PQ00 terminal, max. 95 mm² finely stranded or 120 mm² stranded can be connected.

3) Operating device 8WA2 803 or 8WA2 804.

4) Operating device 8WA2 806.

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Tightening torques also apply to accessories (sockets, link rails etc.).

General technical data

Technical specifications

Single-conductor connection

Terminal	Туре	Minimum	conducto	or cross-se	ction		Maximum conductor cross-section				
size		Solid	Strand- ed	Finely stranded	Finely str end sleev	Finely stranded with end sleeve ¹)		Strand- ed	Finely stranded	Finely stra end sleev	anded with e ¹)
		mm ²	mm ²	mm ²	mm²	Size	mm²	mm ²	mm ²	mm ²	Size
1.5	8WA2 011-3KE	0.08	0.5	0.2	-	-	1.5	1.5	1.5	-	-
2.5	8WA2 011–1	0.08	0.08	0.08	80.0	-	2.5	2.5	2.5	1.5	1.5–7
4	8WA2 011	0.08	0.08	0.08	80.0	-	4	4	4	2.5	2.5–9
6	8WA2 011-1 . H	0.2	0.2	0.2	0.2	-	6	6	6	4	4–12
10	8AW2 011–1 . J	0.2	0.2	0.2	0.2	-	10	10	10	6	-
16	8AW2 011–1 . K 8WA2 011–1NK23, –3JG11	0.2 1	0.2 10	0.2 2.5	0.2 1	_ 1_10	10 16	16 25	16 16	10 16	_ 16–12
	8WA2 846	2.5	2.5	2.5	-	-	16	-	-	35	-

In the second second

Terminal	Туре	I rated data			91 rated data			
size		AWG	Rated current I _n	Rated voltage <i>U</i> e	AWG	Rated current I _n	Rated voltage <i>U</i> e	
			Α	v		Α	v	
1.5	8WA2 011-3KE	28–16	10	AC 65 DC	22–16	10	65	
2.5	8WA2 011-1 . F	26–14	20	600	28–14	20	600	
4	8WA2 011–1 . G 8WA2 011–2 8WA2 011–3JG1 .	26–12 28–12 28–12	25 25 25	600 600 300	28–12 28–12 28–12	25 20 20	600 600 300	
6	8WA2 011-1 . H	24–10	40	600	24–10	40	600	
10	8WA2 011-1 . J ²)	24–8			24–8			
16	8WA2 011-3JG11, -3NK23	12–4	70	600	12–4	73	600	
	8WA2 011–1 . K ²)	24–6			24–6			

Conductor cross-sections according to 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 21 20 19	0.643 0.724 0.813 0.912	0.33 0.41 0.52 0.65	10 9 8 7	2.588 2.906 3.268 3.665	5.26 6.63 8.37 10.55	3/0 4/0 5/0 6/0	10.404 11.684	85.01 107.21 135.35 170.50

1) End sleeves to DIN 46228 Sheet 1 without insulation. Size corresponds to rated size of sleeve. Press using PZ 1.5i, PZ 2, PZ 4, PZ 16, MTR 35, MTR 110 clamp from Weidmüller.

2) The terminals have been submitted for certification.

Introduction

Overview

Terminal strips with different terminal blocks



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

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

Standards

DIN VDE 0110 Part 1, DIN VDE 0609 and IEC 60947-7-1 or IEC 60947-7-2

The size of the connecting holes is as laid down in DIN VDE 50027.

The terminals are finger-safe acc. to IEC 60529 and DIN VDE 0106 Part 100 (except for bare terminals and solder terminations). Through-type terminals are also resistant to earthquakes acc. to IEC 60068-2-6.

Colored terminal blocks

With colored wiring acc. to DIN VDE 0113 Part 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 a link to the mounting rail).

Desian

The terminals are insulated on both sides, with the exception of twotier, flat-type and bolt-type screw terminals, which are insulated on one side only.

The insulating material for terminal sizes up to 240 is made of thermoplastic, polyamide 6.6, and for the flat-type and bolt-type screw terminals of duroplastic; with a resistance to creepage CTI acc. to IEC 112 and DIN VDE 0303, Part 1.

The materials used are ecologically harmless: e.g. cadmium-free, and without halogens or silicone.

The plastics used are flame-retardant and self-extinguishing acc. to IEC 60695 Part 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. Possible creeping of the clamped conductor is thus compensated. 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. Strain-relief clamps for terminal sizes 2.5, 4 and 6. Screw with connection disk for fuse terminals, circuit-breaker terminals and component terminals.

Terminal size

The terminal size corresponds to the rated cross-section. Acc. to DIN VDE 0611 one finely stranded copper conductor of nominal cross-section with or without connector sleeve can be connected to each clamping point.

Mounting

The terminals are snapped onto 35 mm mounting rails acc. to EN 50022-35 or IEC 112 and IEC 60715 TH35 and secured against movement using end retainers.

A lateral mounting tolerance of 0.2 mm has to be observed between the terminals

Screw fixing - in particular of the terminal blocks - is possible with the 8WA1 815 fastening accessory.

Conductor connection

Except for flat- and bolt-type versions, all terminals are designed so that solid, stranded and finely stranded conductors with or without end sleeves (acc. 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 connecting cross-sections when 1 or 2 conductors are connected, see "Technical specifications"

Introduction

Overview

Connection of aluminum conductors

Siemens screw terminals are suitable for connecting aluminum conductors when the normal processing guidelines, for example brush-ing and greasing of the conductors before connection, are complied with

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

Stranded conductors must be crimped in prepared plug connectors immediately after being stripped of their insulation (the shaft of the pin-end connector is made of pure aluminum, the pin of copper).



8WA1 through-type terminal with screw connection on both sides, sectional view

- 1 Screwdriver guide 2 Cut-out for label 3 Cable entry
- Terminal body 4
- 5 Thread for parallel link rail6 Elastic retaining foot

Accessories

Parallel link rails

The link rails are screwed into the terminals from above and allow parallel connection of max. 10 terminals up to terminal size 35. The 10-pole link rails can be shortened as required. On 70 mm² terminals the link rails are two-pole. On the 95 mm² to 240 mm² terminals they are inserted in the connection points. Link rails for flat-type and bolt-type screw terminals are not included in the scope of delivery.

Barriers

Barriers are yellow in color and project beyond the contours of the terminals. Their functions are the visual separation of groups of terminals, the electrical isolation of adjacent link rails and improving the insulation rating for solder and push-on terminals.

Insulation plates

8WA1 825 and 8WA1 022-7TK00 insulation plates can be used with different terminals for providing electrical insulation between link rails.

Test sockets and plugs

The 8WA1 854 test sockets for 2.3 mm diameter test plugs and reduction plugs with a 4 mm diameter can be screwed into some terminals in place of the link rails.

Disconnecting links

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

Covers with warning arrow

The purpose of these covers is to identify the power input terminals and also to provide additional protection against accidental contact.

End retainers and marking tags

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

Through-type terminals

Selection and ordering data

With thermoplastic insulating body · Screw connection on both sides

Dimensions	Rated uninter- rupted current	Version		Fig. No. (see Page	DT	Order No.	PS*	Weight per PU
	Rated insula-			14/26)				approx.
	tion voltage							ку
	Terminal siz	te 1.5 · Width 5.5 mm	Soldered connection on I	both sides	S		50 1	0.007
41 - 9 - 9 -	18 A AC 380 V,	Single terminal	Beige		A	8WA1 221	50 units	0.007
	DC 450 V with alternately	Barrier	Width 1 mm	(13)	A	8WA1 820	100 units	0.002
2 (positioned terminals When using	Cover	With warning arrow White, inscription possible	(5) (6)	A A	8WA1 810 8WA1 860	100 units 100 units	0.001 0.001
8WA1 221	barriers up to 800 V			10				
	Terminal siz	Single terminel	M AWG 22-12 @ AWG 18	-12		9WA1 011 1DE11	100 unite	0.009
	800 V	Single terminal	Blue		A	8WA1 011–1BF23	100 units	0.008
SHOWINS &			Orange		A	8WA1 011–1BF22	100 units	0.008
L'Independent			Green-yellow Black		A A	8WA1 011–1PF11 8WA1 011–1BF24	100 units 100 units	0.008 0.008
			Green		Α	8WA1 011-1BF25	100 units	0.008
8WATUTI-IDFTT		Terminal block	Beige, 3-pole, width 18 mm Beige, 10-pole, width 61 mm			8WA1 011-3DF21	50 units	0.022
			With labeling 1 10 Without labeling		A	8WA1 011-0DF22 8WA1 011-0DF21	20 units 20 units	0.072 0.073
1 Contraction of the second		Barrier	Width 1 mm	13	А	8WA1 820	100 units	0.002
		Insulation plate ⁶)		2	А	8WA1 825	100 units	0.001
	24 A	Link rail for	2 terminals 3 terminals	(3)	A A	8WA1 895 8WA1 896	100 units 100 units	0.002 0.003
			4 terminals 10 terminals	(4)	A	8WA1 897 8WA1 898	100 units 100 units	0.005 0.011
8WA1 011-3DF21		Bridge for link rails		(14)	A	8WA1 822-7VF01	100 units	0.003
	32 A	Disconnecting link ¹)		(15)	A	8WA1 865	100 units	0.006
		Cover	With warning arrow	(5)	A	8WA1 810	100 units	0.001
ACTIVITY AND		for link rails	White, inscription possible Transparent	6	A A	8WA1 860 8WA1 822-7AX01	100 units	0.001
		length 80 mm	White, inscription possible	U	A	8WA1 822-7AX03	10 units	0.001
-1-	10 A	Test socket 2.3 mm Ø		16	А	8WA1 854	100 units	0.001
	18 A	Flat connector 6.3–0.8	Slotted ²)	1)	А	8WA1 890	100 units	0.001
8WA1 011-0DF21	Terminal siz	e 4 · Width 6.5 mm · '	91 AWG 18-10 @ AWG 18	-10				
	32 A 800 V	Single terminal	Beige Blue		A	8WA1 011-1DG11 8WA1 011-1BG11	100 units 100 units	0.010 0.010
41			Red		A	8WA1 011-1BG21	100 units	0.010
			Green-yellow		Â	8WA1 011-1PG11	100 units	0.011
		Terminal block	Beige 2 pale width 10 5 mm		A	8WA1 011 2DC21	EQ unito	0.040
SIEMENS Present Store		Terminal block	Beige, 3-pole, width 19.5 mm Beige, 10-pole, width 65.5 mm			8WA1 011-3DG21	20 units	0.029
			Without labeling		A	8WA1 011-0DG21	20 units 20 units	0.097
8WA1 011-1DG11		Terminal strip	6-pole		А	8WA1 741–2X	50 units	0.080
		Barrier	Width 1 mm	13	А	8WA1 820	100 units	0.002
		Insulation pl. up to 400 \	1	2	А	8WA1 825	100 units	0.001
CONTRACTOR OF	32 A	Link rail for	2 terminals 3 terminals	3	A A	8WA1 850 8WA1 851	100 units 100 units	0.003
			4 terminals 10 terminals		A	8WA1 852 8WA1 853	100 units	0.006
- min		Bridge for link rails		(14)	A	8WA1 822-7VG00	100 units	0.004
1-		Disconnecting link ³)		(5)	A	8WA1 865	100 units	0.006
8WA1 011-0DG21		Cover	With warning arrow	6	A	8WA1 811	100 units	0.001
		for link rollo	White, inscription possible	Ő	Â	8WA1 862	100 units	0.001
- A-A-		length 80 mm	White, inscription possible	U	A	8WA1 822-7AX01	10 units	0.001
	10 A	Test socket 2.3 mm Ø		16	А	8WA1 854	100 units	0.001
123450	18 A	Soldering tag		18	А	8WA7 41	100 units	0.001
S Frences		Flat connector 6.3–0.8	Slotted ⁴)	1	А	8WA1 890	100 units	0.001
		Mounting part for 6 sing	le terminals, 3 terminal blocks		А	8WA1 815	1 unit	0.020
		3-pole and 1 terminal blo	CK 10-pole (for dimensions, see l	rage 14/52)				

8WA1 741-2X

Through-type terminals

Selection and ordering data

With thermoplastic insulating body · Screw connection on both sides

Dimensions	Rated uninter- rupted current	Version	rsion F		DT	Order No.	PS*	Weight per PU
	Rated insula-							approx.
41	Terminal size	e 6 · Width 8 mm · 🔊 Al	NG 14-8 @ AWG 16-8					ĸġ
A CONTRACTOR	41 A 800 V	Single terminal	Blue Green-yellow Black		A A A	8WA1 011–1DH11 8WA1 011–1BH23 8WA1 011–1PH11 8WA1 011–1BH24	100 units 100 units 100 units 100 units	0.014 0.014 0.014 0.014
A CONTRACT OF		Terminal block	Beige, 3-pole, width 24.5 mm			8WA1 011-3DH21	20 units	0.038
8WA1 011-1DH11		Barrier	Width 1 mm	(13)	А	8WA1 821	100 units	0.003
		Insulation plate up to 400 V		2	А	8WA1 825	100 units	0.001
0-12-	41 A	Link rail for	2 terminals 3 terminals 4 terminals 10 terminals	3 4	A A A	8WA1 885 8WA1 886 8WA1 887 8WA1 888	100 units 100 units 100 units 100 units	0.003 0.005 0.007 0.017
1 FEE		Bridge for link rails		(14)	А	8WA1 822-7VH00	100 units	0.004
1	32 A	Disconnecting link ¹)		(15)	А	8WA1 865	100 units	0.006
		Cover	With warning arrow White, inscription possible	5	A A	8WA1 811 8WA1 862	100 units 100 units	0.001 0.001
8WA1 011-3DH21		for link rails, length 80 mm	Transparent White, inscription possible	0	A A	8WA1 822–7AX01 8WA1 822–7AX03	10 units 10 units	0.001 0.001
	10 A	Test socket 2.3 mm $Ø$		16	А	8WA1 854	100 units	0.001
4 1 •	18 A	Soldering tag		1	А	8WA7 41	100 units	0.001
		Flat connector 6.3–0.8	Slotted ⁴)	18	А	8WA1 890	100 units	0.001
	Terminal size	e 16 · Width 10 mm · 🔊	AWG 12-4 @ AWG 14-6				50 1	0.000
and the second	76 A 800 V	Single terminal	Blue		A	8WA1 204 8WA1 011–1BK11	50 units	0.023
		Terminal block, 3-pole	Width 30 mm			8WA1 304	20 units	0.067
8WA1 204		Barrier	Width 1 mm	(13)	А	8WA1 821	100 units	0.003
		Insulation plate for single te	rminal up to 500 V	(19)	А	8WA1 822-7TK00	100 units	0.001
1 AL	76 A	Link rail for	2 terminals 3 terminals 4 terminals 10 terminals	3 4	A A A	8WA1 842 8WA1 845 8WA1 848 8WA1 802	50 units 50 units 50 units 50 units	0.012 0.017 0.023 0.056
		Cover for link rails ⁵), length 100 mm	With warning arrow White, inscription possible Transparent White, inscription possible	56	A A A	8WA1 812 8WA1 892 8WA1 822–7AX02 8WA1 822–7AX04	100 units 100 units 10 units 10 units	0.001 0.001 0.001 0.001
8WA1 304 ① ③ ③ ③	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0	0	+		
			8			8		

For labeling accessories, see Page 14/45.

Footnotes for pages 14/25 and 14/26:

1) Two 8WA1 820 barriers (spacers) are required between the terminals of sizes 2.5 and 6.

2) For voltages up to 250 V.

3) Three 8WA1 820 barriers (spacers) are required between the terminals of size 4.

4) For voltages up to 250 V. One or two flat connectors can be fitted with terminal sizes 4 and 6.

- 5) Can only be used for single terminals.
- 6) 400 V between link rails with insulation plates.

14

Order No.

DT

Through-type terminals

PS*

Weight

Selection and ordering data

Rated uninter-

Version

With thermoplastic insulating body · Screw connection on both sides



Dimensions



8WA1 305



8WA1 206





8WA1 011-1DS10



8WA1 011-1DU10 1



Rate of Nisulation voltage kg Terminal size 35 · Width 16 mm AWG 10-1 @ AWG 12-2 125 A Single terminal Beige Blue A 8WA1 205 8WA1 011-1BM11 50 units 50 units - Barrier Width 48 mm 8WA1 305 20 units - Barrier Width 1.5 mm A 8WA1 823 25 units 125 A Link rail for 2 terminals 3 terminals A 8WA1 828 8WA1 803 20 units - Cover With warn. arrow A 8WA1 803 8WA1 803 20 units - Cover With warn. arrow A 8WA1 813 100 units - Cover With warn. arrow A 8WA1 893 100 units - Cover With warn. arrow A 8WA1 893 100 units - Cover With warn. arrow A 8WA1 893 100 units - Cover With warn. arrow A 8WA1 893 100 units - Burtie Transparent O A 8WA1 893 100 units <th>0.066 0.066 0.195 0.006 0.001 0.026 0.040 0.129 0.001 0.138 0.001</th>	0.066 0.066 0.195 0.006 0.001 0.026 0.040 0.129 0.001 0.138 0.001
Terminal size 35 · Width 16 mm MAWG 10-1 € AWG 12-2 125 A Single terminal Beige Blue A SWA1 205 SWA1 011-1BM11 50 units 50 units 50 units - Barrier Width 48 mm Beige Width 1.5 mm A SWA1 305 20 units - Barrier Width 1.5 mm ① A SWA1 823 25 units 125 A Link rail for 2 terminals 3 terminals 10 terminals ③ A SWA1 823 20 units - Cover With warn. arrow ⑤ A SWA1 803 20 units 20 units - Cover With warn. arrow ⑥ A SWA1 813 100 units - Cover With warn. arrow ⑥ A SWA1 893 100 units - Cover With warn. arrow ⑥ A SWA1 893 100 units - Cover With warn. arrow ⑥ A SWA1 893 100 units - Cover With warn. arrow ⑥ A SWA1 893 100 units - Mathie, inscription ⑥ A SWA1 822-7AX02 10 units - Mathie, inscription ⑦	0.066 0.066 0.195 0.006 0.001 0.026 0.040 0.129 0.001 0.138 0.001
125 A 800 V Single terminal Blue Beige Blue A 8WA1 205 8WA1 011-1BM11 50 units 50 units Terminal block, 3-pole Width 48 mm N 8WA1 305 20 units - Barrier Width 1.5 mm 0 A 8WA1 823 25 units - Barrier Width 1.5 mm 0 A 8WA1 823 25 units 125 A Insulation plate for single term. (up to 500 V) Q A 8WA1 822 7TK00 100 units 125 A Link rail for 2 terminals 3 terminals 10 terminals A 8WA1 803 8WA1 803 20 units 50 units 20 units - Cover With warn. arrow S A 8WA1 813 8WA1 803 20 units 100 units - Cover With warn. arrow S A 8WA1 893 8WA1 803 100 units 100 units - for link rails ¹), length 100 mm Transparent White, inscription Q A 8WA1 822-7AX02 8WA1 822-7AX04 10 units	0.066 0.066 0.195 0.006 0.001 0.026 0.040 0.129 0.001 0.138 0.001
Terminal block, 3-poleWidth 48 mm8WA1 30520 units-BarrierWidth 1.5 mm①A8WA1 82325 unitsInsulation plate for single term. (up to 500 V)②A8WA1 822-7TK00100 units125 ALink rail for2 terminals 3 terminals 10 terminals 10 terminals 6A8WA1 828 8WA1 803 8WA1 803 8WA1 803 20 units50 units 20 units 20 units-CoverWith warn. arrow⑤A8WA1 813 8WA1 893100 units-for link rails ¹), length 100 mmTransparent White, inscription⑦A8WA1 822-7AX02 8WA1 822-7AX04 A10 units	0.195 0.006 0.001 0.026 0.040 0.129 0.001 0.138 0.001 0.001
- Barrier Width 1.5 mm ① A 8WA1 823 25 units Insulation plate for single term. (up to 500 V) ② A 8WA1 822–7TK00 100 units 125 A Link rail for 2 terminals 3 terminals 10 terminals ③ A 8WA1 828 8WA1 803 50 units - Cover With warn. arrow ⑤ A 8WA1 813 100 units - Cover With warn. arrow ⑥ A 8WA1 893 100 units for link rails ¹), length 100 mm Transparent White, inscription ⑦ A 8WA1 822–7AX02 10 units	0.006 0.001 0.026 0.040 0.129 0.001 0.138 0.001 0.001
Insulation plate for single term. (up to 500 V) A 8WA1 822-7TK00 100 units 125 A Link rail for 2 terminals 3 terminals 10 terminals 3 A 8WA1 828 8WA1 803 8WA1 803 50 units 20 units - Cover With warn. arrow 5 A 8WA1 813 100 units - Cover With warn. arrow 6 A 8WA1 893 100 units for link rails ¹), length 100 mm Transparent White, inscription ① A 8WA1 822-7AX02 8WA1 822-7AX04 10 units	0.001 0.026 0.040 0.129 0.001 0.138 0.001 0.001
125 A Link rail for 2 terminals 3 terminals 10 terminals 3 (€) A A 8WA1 828 8WA1 803 8WA1 803 50 units 20 units - Cover With warn. arrow 6 A 8WA1 813 100 units White, inscription possible 6 A 8WA1 823 100 units for link rails ¹), length 100 mm Transparent White, inscription 0 A 8WA1 822-7AX02 10 units	0.026 0.040 0.129 0.001 0.138 0.001 0.001
- Cover With warn. arrow (\$) A 8WA1 813 100 units White, inscription (\$) A 8WA1 893 100 units for link rails ¹), length 100 mm Transparent White, inscription ① A 8WA1 822–7AX02 10 units	0.001 0.138 0.001 0.001
White, inscription (is possible A 8WA1 893 100 units for link rails ¹), Transparent (i) A 8WA1 822–7AX02 10 units length 100 mm White, inscription A 8WA1 822–7AX02 10 units	0.138 0.001 0.001
for link rails ¹), Transparent ⑦ A 8WA1 822–7AX02 10 units length 100 mm White, inscription A 8WA1 822–7AX04 10 units	0.001 0.001
possible	
Terminal size 70 · Width 25 mm 🔊 AWG 8-3/0 🔮 AWG 8-1/0	
192 A 800 VSingle terminalBeige Blue8WA1 206 8WA1 011-1BP1160 units 10 units	0.170 0.172
Barrier Width 1.5 mm ① A 8WA1 824 25 units	0.011
192 A Link rail For 2 terminals A 8WA1 216 20 units	0.053
- Cover With warn. arrow (s) A 8WA1 814 50 units	0.004
Terminal size 95 · Width 25 mm 🔊 AWG 4/0-2 💿 AWG 4/0-2	
232 A 1000 VSingle terminalBeige8WA1 011-1DQ1010 units	0.191
CoverWith warn. arrow(5)A8WA1 822-7AQ0050 units	0.002
Link For 2 terminals (a) A 8WA1 822–7VQ12 5 units For 3 terminals (b) A 8WA1 822–7VQ13 5 units	0.094 0.144
Terminal size 150 · Width 31 mm 🔊 AWG 300-2 🖲 AWG 300-2	
309 A 1000 VSingle terminalBeige8WA1 011-1DS105 units	0.315
Cover With warn. arrow (s) A 8WA1 822–7AS00 50 units	0.003
Link For 2 terminals 9 A 8WA1 822–7VS12 5 units For 3 terminals Image: Comparison of the second seco	0.155 0.244
reminal size 240 · Width 36 mm MAAWG 500/2-0 @ AWG 500/2-0	0.074
1000 V	0.371
Cover with warning arrow Yellow(5)A8WA1 822-7AU0050 units	0.003
Link for two terminals(9)A8WA1 822–7VU125 units	0.206
2 3 4 5 6 7	
HE BEE	

Fig.

For labeling accessories, see Page 14/45. 1) Can only be used for single terminals.

14

Neutral isolating and branch terminals

Overview

Neutral isolating terminals allow an insulation test to be performed without disconnecting the neutral conductor acc. to DIN VDE 0108 and DIN VDE 0100 (Rules for the installation of electric power equipment).

The branch terminals are used for the connection of lines (L), e.g. for power supplies, to the busbar $6 \text{ mm} \times 6 \text{ mm}$.

Selection and ordering data

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

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

With 1 screw connection as well as connection to the neutral conductor bar or busbar 6 mm \times 6 mm to DIN 1761 with insulating body made of blue or beige thermoplastic

Dimensions	Rated uninter- rupted current	Version	Color	D	T Order I	No.	PS*	Weight per PU approx.	
	Rated insulation voltage							ka	
Terminal size 2.5 · Width 6 r	mm · with integ	gral test socket in solid g	part of terminal 🔊 A	WG 22-1	2 @ AWG	a 22-12			
55	24 A	Isolating terminal	Blue	•	8WA1	011–1NF01	100 units	0.012	
8WA1 011-1NF01	Isol. distance 400 V	Branch terminal	Beige	A	8WA1	011–1NF02	100 units	0.012	
Terminal size 4 · Width 6.5 r	mm · with integ	gral test socket in solid p	oart of terminal 🔊 A	WG 18-1	0 🛭 AWG	18-10			
55	32 A 500 V	Isolating terminal	Blue	•	8WA1	011–1NG31	100 units	0.014	
	Isol. distance 400 V	Branch terminal	Beige	A	8WA1	011–1NG32	100 units	0.014	
Terminal size 6 · Width 8 m	m · with intear	al test socket in solid pa	rt of terminal SN AW	/G 14-8 @	AWG 14	-8			
55	41 A	Isolating terminal	Blue		8WA1	011–1NH01	100 units	0.017	
	500 V	Branch terminal	Beige	Δ	8WA1	011-1NH02	100 units	0.017	
8WA1 011-1NH01	Isol. distance 400 V								
Terminal size 16 · Width 10	mm 🔊 AWG	12-4							
55	76 A 500 V	Isolating terminal	Blue		8WA1	604	50 units	0.027	
8WA1 604	Isol. distance 400 V	Branch terminal	Beige	A	8WA1	011–1NK02	50 units	0.027	
Accessories									
	Rated uninter- rupted current	Version		Fig. No. D	T Order I	No.	PS*	Weight per PU approx.	
	105.4	Neutral buckey	1104		0050	204.0	10	kg	
0	125 A	6 mm × 6 mm	2000 mm long	(1) B B	8WC5	020	10 units 1 unit	0.373	
25	32 A 76 A	Feeder terminal for neutral busbar 6 × 6 mm and	Connection up to 4 mm ² 25 mm ²	 2 A 2 A 	8WA2	867 868	250 units 100 units	0.004 0.014	
2 2 2	125 A	10 × 3 mm, bare	35 mm ²	ă A	8WA2	870	100 units	0.019	
9	-	Cover ¹) for neutral busbar	Length 155 mm	3 A	8WA1	822-7AX00	10 units	0.012	
		Label holders (1 pack = 100 holders)		В	3TX4 2	210–0J	100 units	0.031	

1) Not for 8WA1 604 and 8WA1 011-1NK02.

PE and PEN terminals

PS*

Weight per PU

Overview

Dimensions

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

The elimination of a separate PE busbar allows the PE terminals to be lined up with the insulated main conductor terminals and neutral

Version

isolating terminals in any required arrangement. This results in a clear relationship to the individual circuits.

The bare 8WA1 010–1PH01 PE terminals should preferably be used for connecting the shields of screened cables. They are normally mounted on a standard mounting rail, which is installed insulated by means of an 8WA1 857 insulation carrier. The rail is connected to the PE conductor only by one PE terminal.

Order No.

Selection and ordering data

With connection to standard mounting rail · With thermoplastic insulating body

Number of

screw

Fig. No. DT











		CONNECTIONS					appiox.
							kg
Terminal size 2.5 · Widt	h 6 mm						
PE terminal	Green-yellow Green-yellow	1 2	1	A A	8WA1 011–1PF01 8WA1 011–1PF00	100 units 100 units	0.019 0.020
Terminal size 4 · Width	7.2 mm						
PE terminal	Green-yellow Green-yellow	1 2	2	A A	8WA1 011–1PG01 8WA1 011–1PG00	50 units 50 units	0.022 0.024
Terminal size 6 · Width	8 mm						
PE terminal	Green-yellow	2	3	A	8WA1 011–1PH00	100 units	0.029
Terminal size 6 · Width	6 mm						
PE terminal (also for use as shield terminal)	Bare	1	4	A	8WA1 010–1PH01	50 units	0.013
Terminal size 16 · Width	n 12 mm						
PE terminal and PEN terminal for <i>I</i> = 76 A	Green-yellow	2	5	A	8WA1 011–1PK00	50 units	0.046
Terminal size 35 · Width	n 16 mm						
PE terminal and PEN terminal for <i>I</i> = 125 A	Green-yellow	2	6	A	8WA1 011–1PM00	50 units	0.093
Terminal size 95 · Width	n 26 mm						
PE terminal and PEN terminal for <i>I</i> = 232 Å	Bare Only for standard mounting rail 35 mm × 15 mm	2	1	A	8WA1 010-1PQ00	10 units	0.291
Marking tag			8	А	8WA8 07	50 units	0.001

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14

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Insta or three-tier terminals

Overview

The Insta or three-tier terminals incorporate up to three different functions of a terminal in one insulating body of 6 mm width. The width of 3 Insta terminals corresponds to the standard spacing of 18 mm used in distributor panels. Terminals can only be removed from the rail using a tool.

All connection points for incoming and outgoing conductors have a cut-out for a 8WA8 8.. label. The PE/ground conductor connections are already green-yellow, and the neutral conductor connections are already blue.

The neutral busbar has the same position on Insta terminals and neutral isolating terminals. For example, a 16 mm² neutral isolating terminal can be used as the incoming terminal to the neutral busbar.

The neutral busbar can be by-passed in the case of the 8WA1 011– 3JF16, –3JF17 and –3JF18 with a mounting depth of 42.5 mm.

PE/ground, L, NT Insta terminal

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

PÉ/ground connection

- Through-type connection for one phase conductor
 Neutral conductor connection, which can be isolated from the 6 mm x 6 mm neutral busbar.

PE/ground, L, N Insta terminal

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

- PE/ground connection
- Through-type connection for one phase conductor • Through-type connection for the neutral conductor.

PE/ground, L, L Insta terminal

The structure of the 8WA1 011-3JF16 terminal corresponds to the aforementioned version. Instead of the through-type connection for the neutral conductor a through-type connection for a second phase conductor has been provided.

L, L Insta terminal

The 8WA1 011–3JF18 terminal includes two through-type connections for two phase conductors. It is generally used for three-phase AC outgoing circuits.

Selection and ordering data

With thermoplastic insulating body · Screw connection on both sides

tion voltage mm		kg
WAI 011-3JF16 to -3JF18, -3JF20 24 A 400 V, betw. phase conductors; 250 V Insta terminal PE, L, L betw. phase conductors; 250 V PE, L, L Barrier up to 400 V A PE, L, N L, L A A Barrier up to 400 V A A Barrier up to 160 V A A Barrier up to 160 V B A A A A Barrier up to 160 V B A A A A Barrier up to 160 V A A A Barrier up to 160 V B A A A Barrier up to 160 V A A A Barrier up to 160 V B A A A A A A A Barrier up to 160 V A A A A A A A A A A A A A A A A A A A	22–12 50 units 50 units 50 units 50 units 50 units 50 units 50 units 100 units	s 0.028 s 0.028 s 0.027 s 0.030 s 0.005 s 0.001
Accessories	2 100 units	s 0.003

441	24 A	Link rail for	2 terminals 3 terminals 4 terminals 10 terminals	A A A A	8WA1 822–7VF02 8WA1 822–7VF03 8WA1 822–7VF04 8WA1 822–7VF10	100 units 100 units 100 units 100 units	0.003 0.004 0.006 0.014
BWA2 867/868/870		Cover ¹)	With warn. arrow 6.5 White, inscription 6.5 possible	A A	8WA1 811 8WA1 862	100 units 100 units	0.001 0.001
		for link rails, length 80 mm	Transparent White, inscription possible	A A	8WA1 822-7AX01 8WA1 822-7AX03	10 units 10 units	0.001 0.001
	125 A	Neutral busbar 6 mm × 6 mm	1104 mm long ²) 2000 mm long ²)	B B	8GF9 324–2 8WC5 020	10 units 1 unit	0.373 0.640
	00.4	Feeder terminal	Connection up to 4 mm ²	А	8WA2 867	250 units	0.004
	32 A 76 A	6 × 6 mm and	25 mm ²	А	8WA2 868	100 units	0.014
3WA1 808	125 A	10 × 3 mm, blank	35 mm ²	А	8WA2 870	100 units	0.019
N		End retainer Insulation carrier	10	A A	8WA1 808 8WA1 857	50 units 20 units	0.014 0.010
3WA1 857		Device identification for end retainer (blank	label)	В	3TX4 210–0H	100 units	0.029
Feeder terminal		Blank labeling plates terminals	for identification of	А	8WA8 848-2AY	100 units	0.018
15			ê — — —		â		







For labeling accessories, see 14/45.

1) Up to 3 terminals next to one another. Prices apply to orders above € 25.—. For orders less than € 25.—, a processing fee of € 2.50 will be added.

Neutral busbar

8GF9 324-2/8WC5 020

14/30

* This quantity or a multiple thereof can be ordered.

Flat-type and bolt-type screw terminals

Overview

The flat-type and bolt-type screw terminals are an alternative to the terminals with hinged screw connection (8WA1 207 and 8WA1 208).

They can be used for current rails and – by means of cable lugs – for all conductor types. The additional space and mounting requirements for the cable lugs must be taken into consideration.

The flat-type terminals have through-holes. A second wrench must be used for backing up when tightening the screws. This prevents high forces from affecting the standard mounting rail. It is recommended, though, to use 15 mm high standard mounting rails. The flat-type terminals have a label holder for up to four 8WA8 8.. labeling plates or one 3TX4 210–0H device identification label. The bolt-type screw terminals have two label holders for two 8WA8 8..-.. labeling plates each.

Selection and ordering data

					I nrougn-type	terminals · with insulating b	ody made of durop	DIASTIC		
Dimension	IS				Rated uninter- rupted current	Version	DT	Order No.	PS*	Weight per PU approx.
					Rated insulation voltage					kg
Flat-type	e terr	ninals	• Scre	w con	nection on both	sides				
	н				Terminal size	70 · Width 32 mm 🔊 AWG (6-3/0 🕲 AWG 2/0-1	•		
	×		t		168 A AC 1000 V, DC 1200 V	Flat-type terminal	A	8WA1 012-1DP14	10 units	0.167
Rail width = 8WA1 012–1DP14		Terminal size	95 · Width 46 mm 🔊 AWG	1-4/0 🕲 AWG 4/0-2	/0					
		250 A 1000 V AC, 1200 V DC	Flat-type terminal	А	8WA1 012-1DQ14	5 units	0.269			
				Terminal size	150 · Width 46 mm 🔊 4/0 A	WG-300 MCM @ n	nax. 300 MCM			
	70	95	150	240	335 A 1000 V AC,	Flat-type terminal	А	8WA1 012-1DS14	5 units	0.382
A B	60 18	66 25	74	82 40	Terminal aiza	040 Width E4 mm				
H	84	90 M10	106	122 M16		240 · Width 54 mm			E	0.010
T MA ¹) (Nm)	47 6	47 10	47 15.5	50 30	435 A AC 1000 V DC 1200 V	Flat-type terminal	A	8WA1 012-1D014	5 UNITS	0.619
Dolt two			minal	with M	Chalt					
воп-тур	e scr	ew ter	minai	with w	Terminal size	16 · Width 18 mm				
	M6	- 17			82 A 380 V AC, 450 V DC	Bolt-type screw terminal, MA ¹) = 3.0 Nm	А	8WA1 012–1DK10	50 units	0.029
50										
Access	ories	s for <u>fl</u> a	at-type	e termi	nals					
	160		8		Cover plate (laminated pape with end bracket	r, thickness 2 mm)	A	8WA1 822–7TX01	10 units	0.052
8WA1 822-	-7TX0	1	V		Barrier (laminated pape	r, thickness 2 mm)	А	8WA1 822-7TX00	10 units	0.025
 ⊲ 1	60				Cover for terminal size	70	А	8WA1 822-7AP00	10 units	0.075

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с ,

8WA1 822-7TX00

For labeling accessories, see Page 14/45. 1) MA = tightening torque.

Two-tier terminals

Selection and ordering data

With thermoplastic insulating body · Screw connection on both sides

Dimensions	Rated uninter- rupted current Rated insula-	Version	Color	DT	Order No.	PS*	Weight per PU approx.
	lion vollage						kg
Two-tier terminal, 2-pole with 2	electrically i	solated links					
	Terminal siz	e 4 \cdot Width 6.5 mm \cdot	AWG 18-10	@ AWG 18-10			
64	32 A 690 V	Two-tier terminal	Beige Blue	A A	8WA1 011–2DG11 8WA1 011–2BG11	100 units 100 units	0.021 0.021
	With cover plates 800 V						
Two-tier terminal, 1-pole							
	Terminal siz	e 4 \cdot Width 6.5 mm \cdot	FL AWG 18-10	@ AWG 18-10			
	32 A 690 V	Two-tier terminal	Beige Blue	A A	8WA1 011–6DG11 8WA1 011–6BG11	100 units 100 units	0.020 0.020
	With cover plates 800 V						

Ac	00	00	ori	00
AU	ue	55		e 5

Accessories										
			Rated uninter- rupted current	Version		Fig. No. (see Page 14/33)	DT	Order No.	PS*	Weight per PU approx.
										kg
Rated voltage	AC	DC	-	Cover plate	Width 1.5 mm	1	А	8WA1 817	100 units	0.006
Between link rails			-	Barrier	Width 1.5 mm	2	А	8WA1 823	25 units	0.006
With insulation plate	400 V	450 V	-	Cover	With warn. arrow White, inscription	10	A A	8WA1 811 8WA1 862	100 units 100 units	0.001 0.001
With cover plate or barrier	800 V	900 V		for link rail	Transparent		А	8WA1 822-7AX01	10 units	0.001
With open	500 V	600 V	For top leve	I with 2-pole terminal	S					
disconnecting link	500 V	000 V	32 A	Link rail for	2 terminals	⊕	A	8WA1 850	100 units	0.003
With alternately bent soldering tags	400 V	450 V			4 terminals 10 terminals		A ►	8WA1 851 8WA1 852 8WA1 853	100 units 100 units	0.006 0.014
With adjacent termi-	250 V	300 V	-	Insulation plate		3	А	8WA1 825	100 units	0.001
and insulated plugs			32 A	Bridge for link rails		5	А	8WA1 822-7VG00	100 units	0.004
			32 A	Disconnecting link ¹)		6	А	8WA1 865	100 units	0.006
			10 A	Test socket Ø 2.3 mm		\bigcirc	А	8WA1 854	100 units	0.001
			18 A	Soldering tag		8	А	8WA7 41	100 units	0.001
			18 A	Flat connector 6.3–0.8	Slotted ²)	9	А	8WA1 890	100 units	0.001
			For bottom I	evel with 1-pole and	2-pole terminal	S				
			32 A	Link rail for	2 terminals 10 terminals	49	A	8WA1 835 8WA1 838	100 units 100 units	0.003 0.027
			-	Insulation plate		3	А	8WA1 825	100 units	0.001
			32 A	Bridge for link rails		5	А	8WA1 822-7VG01	10 units	0.006
			10 A	Test socket 2.3 mm Ø and associated distance	e sleeve	\bigcirc	A A	8WA1 884 8WA1 822–7VH11	100 units 100 units	0.001 0.001

For labeling accessories, see Page 14/45.

The terminals must be provided with end plates and mounted with the end plates pointing to one another.
 For voltages up to 250 V. One or two flat connectors can be fitted with terminal size 4.

Two-tier terminals with solid-state components

		With thermoplastic insula	ting body · Screw c	onnecti	on on both sides		
Dimensions	Arrangement of components	Rated uninterrupted current Rated insulation voltage	Version	DT	Order No.	PS*	Weight per PU approx.
							kg
64	Terminal size 4 · V	Vidth 6.5 mm 🔊 AWG 18-10)				
		32/1 A 250 V	Diode terminal	A	8WA1 011–6EG20	100 units	0.021
		32/1 A 250 V	Diode terminal	A	8WA1 011–6EG21	100 units	0.020
SWATUTI-6EG20		1 A 250 V	Diode terminal	A	8WA1 011-6EG22	100 units	0.020
		32/1 A 250 V	Diode terminal	A	8WA1 011-6EG23	100 units	0.020
		32/1 A 250 V	Diode terminal	A	8WA1 011–6EG24	100 units	0.020
8WA1 011-6EG51		0.25^2) $U_Z = 2.4 V^1$)	Zener diode terminal	A	8WA1 011–6EG44	100 units	0.021
		32 A DC 24 V	Terminal with red LED	A	8WA1 011–6EG25	100 units	0.021
		32 A DC 24 V	Terminal with red LED, with diode for voltage limitation	A	8WA1 011–6EG26	100 units	0.021
	1 ~ - 2 ~ + 3 4	1 A AC 250 V	Rectifier terminal	A	8WA1 011–6EG27	100 units	0.021
		_ 250 V	Compensating terminal 20 Ω, 0.75 W	A	8WA1 011–6EG51	100 units	0.021

Selection and ordering data

Design



For labeling accessories, see Page 14/45.

Break-through voltage ±5%.
 Let-through current.

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Diode and isolating terminals

Selection and ordering data

With thermoplastic insulating body

Terminal size 2.5 · Width 6 mm Diode terminals · Screw connection on both sides with facility for test plug with 2.3 mm Ø

Dimensions		Rated insula- tion voltage	Rated uninter- rupted current	Version	DT	Order No.	PS*	Weight per PU approx.
- 4 ► 3			А					kg
	. I	250 V <i>U</i> _{RRM} ¹)	1	Diode terminal	A	8WA1 011-1EF20	100 units	0.009
<u>۽</u>		250 V <i>U</i> _{RRM} ²)	0.25	Diode terminal	A	8WA1 011-1EF28	100 units	0.009
8WA1 011-1EF20	· •	$U_{\rm Z} = 2.4 \ V^3$)	0.25 ⁴)	Zener diode terminal	А	8WA1 011-1EF24	100 units	0.008
Through-type term	inals with sectionaliz	ing feature · \	Nith 2 holes f	or test plug with 2.3 mm Ø				
Dimensions		Rated uninterru Rated insulation	ipted current n voltage	Version	DT	Order No.	PS*	Weight per PU approx.
								kg
	12 41 51 51 51 51 51 51 51 51 51 51 51 51 51	10 A AC 380 V, DC 4 (with alternately tags)	150 V v bent soldering	Isolating terminal With screw connection on both sides With 1 screw connection and 1 sol- dering connection	A	8WA1 501 8WA1 511	100 units 50 units	0.009 0.009
⊶ 8WA1 501	8WA1 511	Open isolating AC 380 V, DC 4 Up to AC 750 V using barriers	distance 150 V , DC 900 V when	Through-type terminals with sectional current path without disconnection of connection screws to e.g. measure th circuit. When using connection comb stage.	lizing cond ie loop s, the	feature are used for con uctors. It is possible us o resistance or to conne connectable cross-sec	nvenient iso ing the socl ect an amm ction is redu	lation of the kets of the eter into the ced by one
Accessories								

Addesseries								
	Rated uninterrupted current	Version		Fig. No.	DT	Order No.	PS*	Weight per PU approx.
								kg
0 2	-	Barrier	Width 1 mm	1	А	8WA1 820	100 units	0.002
		Jumper plug		3	А	8WA1 873	10 units	0.004
ااا ريكى	10 A	Connection comb ⁵)	2-contact 3-contact 4-contact	2	A A A	8WA1 822–7VF12 8WA1 822–7VF13 8WA1 822–7VF14	100 units 50 units 50 units	0.002 0.001 0.002
3 4 5	10 A	Test plugs	White Red Blue	4	A A A	8WA1 867 8WA1 868 8WA1 870	10 units 10 units 10 units	0.002 0.002 0.002
	10 A	Reduction plug		5	A	8WA1 871	10 units	0.006

Terminals for components

Selection and ordering data

Terminal size 1.5 · Width 10 mm

Terminal for components · Screw connection on both sides for 2 conductors each · Plug with PCB for components



Limits for current/ power loss	Version		DT	Order No.	PS*	Weight per PU approx.
						kg
6.3 A 500 V ⁶)	Terminal (only enclosure)	for components For self-fitting with components	A	8WA1 011-1EE00	1 unit	0.018
6.3 A/0.65 W	Plug	with PCB For components and labeling plate (20 mm × 9 mm)	A	8WA1 822–7EE00	1 unit	0.009

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Dimensions/version



67 8WA1 011-1EE0

-	
	Plug
DO	completely
	equipped, example

For labeling accessories, see Page 14/45.

1) Peak reverse voltage 1000 V.

2) Peak reverse voltage 4000 V.

3) Break-through voltage ±5%.

4) Let-through current.

5) When used the conductor cross-section is reduced by one terminal size.

6) To the next terminal, defined internally by customer components.

Fuse terminals

Overview

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

The fuse terminals are intended for G fuse links $5\,\text{mm}\times20\,\text{mm}\,\text{and}$ 5 mm × 25 mm up to 6.3 A and 250 V and for linking links up to 16 A and 800 V and have a mounting for a replacement fuse link.

Fuse terminals are positive opening fuse-disconnectors.

The fuse links must be replaced at zero voltage. Touch protection is provided in both closed and open positions.

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

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

Selection and ordering data

With thermoplastic insulating body \cdot Screw connection on both sides for 2 conductors each

Dimensions	Rated uninter- rupted current	Version		Fig. No.	DT	Order No.	PS*	Weight per PU approx.
① • 57	Rated insulation voltage							kg
	Terminal size	1.5 · Width 10 mm 🔊	AWG 18-14 @ AWG 18	3-14				
	6.3 A ¹) 16 A ²)	Fuse terminal		1		8WA1 011-1SF12	25 units	0.019
	250 V ¹), 800 V ²) Open isolating distance 500 V							
	1 A 1.6 A 2.5 A 4 A 6.3 A	G fuse links (5 mm × 20 mm)	IEC 60127-2, DIN VDE 0820 Part 22, quick high breaking capacity: 1.5 kA	2	A A A A	8WA1 822-7EF16 8WA1 822-7EF18 8WA1 822-7EF21 8WA1 822-7EF23 8WA1 822-7EF23 8WA1 822-7EF25	10 units 10 units 10 units 10 units 10 units	0.001 0.001 0.001 0.001 0.001
3	250 V							
	1 A 1.6 A	G fuse links (5 mm × 20 mm)	IEC 60127-2, DIN VDE 0820 Part 22,	2	A A	8WA1 822–7EF76 8WA1 822–7EF78	10 units 10 units	0.001 0.001
④	2.5 A 4 A 6.3 A		capacity: $35 \text{ A at } I_n \le 2.5 \text{ A}$ $10 \times I_n \text{ at } I_n > 2.5 \text{ A}$		A A A	8WA1 822–7EF81 8WA1 822–7EF83 8WA1 822–7EF85	10 units 10 units 10 units	0.001 0.001 0.001
(5)	250 V							
	16 A	Bridging link (5 mm × 25	5 mm)	3	А	8WA1 891	10 units	0.004
- Burnalinael	65 A	Link rails	I = 104 mm, 10 connection I = 206 mm, 21 connection	IS (4) IS (5)	A A	8WA1 822–7VD05 8WA1 822–7VD08	20 units 20 units	0.017 0.037

Through-type terminals with plug-in connection

Selection and ordering d	lata With thermopl	astic insulating body \cdot	Screw connection on b	ooth s	ides	for 2 conductors each		
	Terminal size (6 · Width 8 mm						
	16 A per connec- tion point 400 V	Through-type terminal with plug-in connection	Beige	6	А	8WA1 232	50 units	0.011
	Up to 1000 V when using barriers	4 tab connectors 6.3–0.8 ³)						
		Barrier	Width 1 mm	1	А	8WA1 821	100 units	0.003
	24 A	Link rails	For 2 terminals For 10 terminals	89	A A	8WA1 822–7VH12 8WA1 822–7VH20	100 units 100 units	0.004 0.023
		Cover	With warning arrow White, inscription possible		A A	8WA1 811 8WA1 862	100 units 100 units	0.001 0.001
	8	9	10	1				
	ΪΪ		4	2				

For labeling accessories, see Page 14/45.

1) When using fuses.

2) When using the bridging link.

3) Fully insulated tab receptacles must be used with voltages above 400 V up to 1000 V.

Measuring transformer terminals

Overview

Measuring transformer terminals can be used for testing and isolating circuits in switchgear installations, control rooms and the like without any interruption of operation.

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

Test sockets for plugs with a diameter of 4 mm can be screwed into the front side of the through-type and isolating terminals. The rated insulation voltage between colored test sockets is 125 V. The rated insulation voltage between test sockets and link rails which are 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 contact.

Instrument set for one transformer

The basic circuit of the transformer terminal blocks becomes clear in the instrument set for a transformer. Much larger instrument sets also contain this basic circuit which is extended by adding on equivalent circuits. Links between the basic circuits allow many kinds of tests to be carried out, parallel outgoing feeders to other measuring devices, the 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 be used as well. 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 instruments. The neutral point is produced on the measuring instruments on the one hand, and using a shortened link rail 8WA1 822-7VH10 on the other. The instrument isolating terminal 1 is connected to the neutral point using a connection comb

Note

The terminal sets for current transformers are considerably simplified by the introduction of the 8WA1 011-1MH10 through-type terminals and the associated disconnecting links. Instead of the 12 isolating or instrument isolating terminals which have been used up to now, only four instrument isolating terminals and three through-type terminals now have to be used.

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 bridges connect terminals 1, 4 and 7 with the neutral point. It is formed in terminals 10, 11, 12 and 13 with an 8WA1 887 link rail.



Instrument set for 1 transformer
 Instrument set for 3 transformers
 Instrument set for 3 transformers

with neutral point
 (4) Instrument set with test facility

Туре	Required number with					
	1	2	3	4		
8WA1 011–1MH10 8WA1 011–1MH11 8WA1 011–1MH15	1 1	3 3	3 4	7 3 3		
8WA1 825 ^a) 8WA1 885 8WA1 887		2	2	3 1		
8WA1 822-7VH10 8WA1 822-7VH01 8WA1 822-7PH00 8WA1 822-7VH22	1	3	1 ^b) 3 1	3 4		

a) May also be required between instrument

b) Shortened

Link rail

- Insulation plate
- Disconnecting link (closed)
- Connecting comb, 2-pole

Connection possibility for transformer terminals (instrument sets)

Measuring transformer terminals



For labeling accessories, see Page 14/45.

1) Rated insulation voltage with open disconnecting link to DIN VDE 0110: 125 V Gr. C or 250 V Gr. B.

- 2) Rated voltage between test socket and passing link rail: 16 V.
- 3) Rated voltage between two test sockets: 125 V.

Circuit-breaker terminals for auxiliary circuits

Overview

Circuit-breaker terminals are used for short-circuit protection or for protection against overloading and short-circuiting in auxiliary and control circuits after control transformers.

Benefits

- Space-saving construction in terminal block version
- Clear arrangement on the terminal rail (standard mounting rail 35 mm)
- Unambiguous indication of switch position or "released" statusNo fuses
- Switch/isolating point function
- Signals via built-in auxiliary switches
- Floating through-connection parallel to the switching contacts
- Double connection to all terminals possible
- Inscription with terminal block labeling accessories.

Specifications

DIN VDE 0660 Part 101, IEC 60947-2 and DIN VDE 0611 Part 1, insofar as they relate to circuit-breaker terminals. Finger-safe acc. to DIN VDE 0106 Part 100.



Rated short-circuit, switch-on and switch-off capacities acc. to DIN VDE 0660 Part 101 for circuit-breaker terminal 8WA1 011-.SF.

Characteristics



Characteristics of short-circuit releases

Technical specifications

Rated operating voltage	Max. AC 250 V 50/60 Hz Max. DC 60 V
Minimum operating voltage	AC/DC 24 V
Power loss	Max. 1 W
Rated impulse voltage	4 kV
Pollution degree (DIN VDE 0110 Part 1/ Part 2 01.89)	3
Rated operating current of auxiliary switch	1 A
Rated current of through-type connection	16 A

Selection instructions

When selecting circuit-breaker terminals, the different release characteristics must be taken into account.

Inductive AC current consumers such as contactor coils and solenoid valves have inrush peaks up to ten times the uninterrupted current. Circuit-breaker terminals with short-circuit releases are to be selected such that they do not release as a consequence of inrush peaks.

With regard to circuit-breaker terminals with overload and short-circuit release, a low rated uninterrupted current can be chosen because the short-circuit releases only respond when the levels are high.

Ordering examples:

Existing unit: solenoid valve AC 50 Hz, 24 V, 20 VA

1. Required:	Selected unit:
Circuit-breaker terminal with short-circuit release Selection according to making current: Uninterrupted current=20 VA:24 V=0.83 / Making current = 10 · uninterrupted current = 8.3 A	Circuit-breaker terminal 10 A Order No. 8WA1 011–1SF28 A
2. Required:	Selected unit:
Circuit-breaker terminal with overload and short-circuit releases. Selection according to uninterrupted	Circuit-breaker terminal 2 A Order No. 8WA1 011–2SF25
current: Uninterrupted current= 20 VA:24 V=0 83 A	Check: the making current is 10 · continuous current = 8.3 A. This 4 15 times the rated uninterrupted

10 · continuous current = 8.3 A. This is 4.15 times the rated uninterrupted current of 2 A. The short-circuit release has not yet tripped.



Characteristics of combined overload and short-circuit releases at ambient temperature of 40 $^\circ\mathrm{C}$

Mech. endurance Electr. endurance	8000 operating cycles 4000 operating cycles
Polarity with DC	Any
Mounting position	Any
Resistance to vibration	10 <i>g</i> at ≤ 70 Hz
Conductor cross-sections -Solid -Finely stranded with end sleeve	1 or 2 × (0.75–1.5) mm ² 1 or 2 × (1–2.5) mm ²
Tightening torque	0.8 Nm
Stripped length	10 mm

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Circuit-breaker terminals

for auxiliary circuits

Selection and ordering data

With thermoplastic insulating body · Screw connection on both sides for 2 conductors each

Dimensions	Versic	n	Maximum rated operating voltage	Rated uninterru	DT	Order No.	PS*	Weight per PU approx
				A				kg
	Term	inal size 1.5	· Width 12.5 mm · 🔊 /	AWG 14-*	12 @ AW(G 14		0
89	Circu	it-breaker term	inal with short-circuit relea	se				
0		7	250 V AC, 60 V DC	1	A	8WA1 011-1SF24	20 units	0.053
	4	0032		2	A A	8WA1 011-1SF25 8WA1 011-1SF26	20 units 20 units	0.052 0.053
CHIERDERIA	2	SHOO		6 10	A A	8WA1 011-1SF27 8WA1 011-1SF28	20 units 20 units	0.053 0.050
ENAL MOTION SET		it-broskor torm	inal with overload and sho	rt-circuit r				
al al			250 V AC, 60 V DC	1	A	8WA1 011-2SF24	20 units	0.052
		g		2 4	A	8WA1 011-2SF25 8WA1 011-2SF26	20 units 20 units	0.051 0.051
6 6	14	100HS		6 10	A	8WA1 011-2SF27	20 units	0.051
		z	11/1 / 00 F	10	11	0WAT 011-23F20	20 01110	0.000
	lerm	inal size 1.5	· Width 22.5 mm					
8WA1 011-1SF24	auxili	ary switch with	n 1 NO contact and 1 NC co	ntact				
	1	13 21	AC 250 V, DC 60 V	1	A	8WA1 011-6SF24 8WA1 011-6SF25	10 units 10 units	0.096
	-+	-+7 8		4	A	8WA1 011-6SF26	10 units	0.092
		<u>1422</u>		10	Â	8WA1 011-6SF27 8WA1 011-6SF28	10 units	0.090
	Circu auxili	it-breaker term ary switch and	inal with overload and sho	rt-circuit re	elease. 4-12 @ AW	/G 14		
	r - °1		AC 250 V, DC 60 V	1	A	8WA1 011-4SF24	10 units	0.089
	-+-			4	A	8WA1 011-4SF25 8WA1 011-4SF26	10 units	0.092
	2	22 4 P		6 10	A A	8WA1 011-4SF27 8WA1 011-4SF28	10 units 10 units	0.105 0.088
	Circu	it-breaker term	inal with overload and sho	rt-circuit re	elease			
	auxili	ary switch with	n 1 NO contact and 1 NC co	ntact	sicuse,			
	1	13 21	AC 250 V, DC 60 V	0.5 1	A A	8WA1 011-8SF23 8WA1 011-8SF24	10 units 10 units	0.093 0.092
	the state of the s	-+/ <u>ş</u>		2 4	A A	8WA1 011-8SF25 8WA1 011-8SF26	10 units 10 units	0.097 0.092
	<u>2</u>	<u>14</u> 22 \$		6 10	A	8WA1 011-8SF27 8WA1 011-8SF28	10 units	0.090
A								
Accessories								
Example	For terminals	Rated V uninter-	Version	Length	Fig. D1 No.	Order No.	PS*	Weight per PU
		rupted						approx.
		A		mm				kg
1	8WA1 011-1SF2.	76	Feeder terminal	-	A	8WA1 822-7VD00	10 units	0.012
1	8WA1011-2SF2. 8WA1011-4SF2.	(Johnection up to 16 mm ²					
	8WA1 011-6SF2. 8WA1 011-8SF2.							
2	8WA1 011-1SF2.	65 I	Link rail, 1-pole					
View and the	8WA1 011-2SF2.		18 connéctions 9 connections	206 104	A A	8WA1 822-7VD06 8WA1 822-7VD07	20 units 20 units	0.036 0.017
3	8WA1 011_4SF2	65	Link rail. 1-pole					
	8WA1 011-6SF2.		10 connections	206 104	1 A	8WA1 822-7VD01	20 units	0.031
particle states interest interesting	0WA1011-03F2.	100		104		0WA1 022-1 VD02	20 units	0.015
4	övvaιu11−4SF2.	120	9 connections/pole	206	3 A	8WA1 822-7VD03	10 units	0.061
			o connections/pole	104	(4) A	8WA1 822-7VD04	iu units	0.031
AND NO YORK								

Transformer terminals

Overview

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

The terminals are insulated on both sides, and are finger-safe acc. to DIN VDE 0106 Part 100. They possess all properties of the SIGUT connection system.

Break-off 12-part 8WA8 858-... labeling strips or the normal labeling accessories can be used to designate the transformer terminals.

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



- 1 Retainer for 2 mm \times 10 mm
- 2 Soldered connection 3 Hinged cover

Selection and ordering data

-									
Dimensions	Terminal size Conductor cross-section	Rated uninterrupted current Rated insulation voltage	Version	Width mm	DT	Order No.	PS*	Weight per PU approx.	
_		to DIN VDE 0110, Group C						kg	
Transformer terminal with insulating body made of molded thermoplastic for standard mounting 2 mm × 10 mm, with screw and plug-in connection as well as soldered connection on device si									
	Terminal size 4 Screw connection: Solid 0.5 mm ² to 6 mm ² Finely stranded with or without end sleeve 0.5 mm ² to 4 mm ²	24 A	Terminal Gray	7.5	A	8WA9 200	100 units	0.007	
A the state of th		600 V to ® 600 V to ® Group D	Labeling strip Plain		А	8WA8 848-2AY	100 units	0.018	
			Labeling strip Labeled as selected		А	8WA8 847-0XA	100 units	0.018	
8WA9 200 (plan view)	Stripped length 10 mm Tab connector: 6.3–0.8 ¹) Soldered connection: Solid up to 3 mm Ø Finely stranded up to 2.5 mm ² Stripped length 7 mm @18–10 AWG %1 8–10 AWG		Terminal strip for 8WA1 terminals	22	A	8WA1 822-7BX00	100 units	0.004	

Customized designs

Selection and ordering data

Dimensions	Terminal size	Rated uninterrupted current Rated insulation voltage	Version	Length DT L	Order No.	PS*	Weight per PU approx.
		Group C		mm			kg
	Terminal size 2.5	24 A 690 V	Terminal strip with 8 terminal blocks 8WA1 011–3DF21 with printed numbers from 1 to 24	164 A	8WA1 905–0X	10 units	0.221
4,5 + + + 5 + 8WA1741-2X	Terminal size 4	32 A 690 V	Terminal strip with 6 single terminals 8WA1 011–1DG11 with snapped-on labeling plates from 1 to 6	57 A	8WA1 741–2X	50 units	0.080

1) Fully insulated tab receptacles must be used with voltages above 400 V up to 690 V.

Shield terminals

Overview



Inductive and capacitive interference which may cause failures in instrumentation and control installations can be prevented to a major extent with the 8WA4 shield connection system. It is a system with a high degree of electrical and mechanical safety, and it gives the user great flexibility of application. Three shield terminals are available, for conductor cross-sections 0 to 8 mm, 7 to 16 mm and 6 to 24 mm.

The method of mounting is simple, safe and time-saving, by a vertical snap-on technique:

- Directly into the detent holes of the mounting plate up to a thickness of 3 mm
- Onto a straight 10 × 3 mm copper rail with insulated supports or a bracket shaped to suit customer requirements
- Onto a copper rail with spacing bolts
- Onto a specially perforated transformer rail with distance sleeves.

Selection and ordering data



8WA4 302 (as delivered)

Accessories







8WA2 842



8WA4 306

Version	Color	Hole sp Width A	Dacing A+3	Height B	С	DT	Order No.	PS*	Weight per PU approx.
		mm	mm	mm	mm				kg
Shield terminal 0 to 8 mm	Bare	8	11	51	42	A	8WA4 301	5 units	0.013
Shield terminal 7 to 16 mm	Bare	16	19	53	45	A	8WA4 302	5 units	0.016
Shield terminal 6 to 24 mm	Bare	24	27	78	58	A	8WA4 303	5 units	0.022

	Holding block with thread	Gray	А	8WA4 304	4 units	0.025
	Holding block with tapping screw	Gray	А	8WA4 305	4 units	0.024
-	Copper rail 10 × 3 mm tin-plated, 1000 mm long		А	8WA2 842	10 units	0.267
	Mounting rail special perforation 1000 mm long	Tin- plated	A	8WA4 306	1 unit	0.261
	Distance sleeve for 8WA4 306		А	8WA4 307	10 units	0.018

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General technical data

Technical specifications

Continuous load at increased ambient temperatures

At ambient temperatures of up to +55 °C, the 8WA1 terminal blocks can be loaded with full thermal current. At higher ambient temperatures, a current reduction acc. to the following formula is necessary:

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

I_{th2} = Thermal current acc. to selection tables, in relation to the rated cross-section

 I_{th2} = Thermal current at increased ambient temperature

k = Reduction factor acc. to the table

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

The maximum terminal overtemperature of 45 K acc. to IEC 60947-7-1 and DIN VDE 0611, Part 1, is not exceeded at ambient temperatures up to 100 $^\circ\text{C}.$

Connections

Standard mounting rails as PEN rails

Only rails made of copper can be used.

The same current-carrying capacity as with protective-conductor busbars is to be used as a basis.

PEN rails can only carry terminals, not devices.

Standard mounting rails as protective conductor busbars

Protective conductors with a larger cross-section than the equally conductive cross-section of the protective-conductor busbars can be connected to standard mounting rails which are also protectiveconductor busbars and only carry current in the event of a fault.

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

Terminal size	Type ²)	Thread diameter of connection screws	Screwdriver size acc. to DIN 5264 Form B	Tightening torque ²) = test torque acc. to DIN VDE 0609 and DIN VDE 0611 Nm	Tensile force acc. to IEC 60947-1 N	Stripped length
1.5	8WA1 011SF, 8WA1 011-1EE00	M 3.5	0.8 × 4	0.8	30	10
2.5	8WA1 1, 8WA1 011–1BF11, 8WA1 011–1EF 8WA1 011–F	M 2.5 and M 3 M 2.5	0.5 × 3 0.8 × 4	0.5	50 50	11
4	8WA1 011–G 8WA2 867	М 3	0.8 × 4	0.5 0.8–1	50	11
6	8WA1 2, 8WA1 011 H	M 3.5	0.8 × 4	0.8	60	11
16	8WA1 4, 8WA1 011 K	M 4	0.8 × 4	1.2	90	13
25	8WA2 868			2.5–3		
35	8WA15, 8WA1 011– M 8WA2 870	M 6	1.2 × 6.5	2.5 2.5–3	120	17
70	8WA16	M 8	4 hexagon socket	6	160	25
95	8WA1 7, 8WA1 010–1PQ00	M 10 M 8	13 (size across flats) 6 hexagon socket	10 15–20	180	29 30
150	8WA18	M 10	8 hexagon socket	25–30	240	38
240	8WA18	M 10	8 hexagon socket	25–30	240	38

Rated impulse withstand voltage of terminal block

Values dependent on the rated voltage of power supply ≤ rated insulation voltage of terminal block; extract from EN 60947-1, Table H.1. Terminal blocks are tested acc. to overvoltage category III.

Rated voltage of power supply (≤ rated insulation voltage of device)	Maximum rated operating voltage against ground	Preferred values of rated impulse withstand voltage as 1.2/50 μ s pulse Overvoltage category						
RMS value AC V	RMS value AC V or DC	l kV	ll kV	lli kV	IV kV			
-	50	330	500	800	1500			
66/115	100	500	800	1500	2500			
120/208127/220	150	800	1500	2500	4000			
230/400277/480	300	1500	2500	4000	6000			
400/690	600	2500	4000	6000	8000			
1000	1000	4000	6000	8000	12000			

 With 8WA1 010–1PQ00 terminal, max. 95 mm² finely stranded or 120 mm² stranded can be connected. 2) Tightening torques also apply to accessories (sockets, link rails etc.).

General technical data

Technical specifications

Connection

Terminal	Туре	Minimum conductor cross-section Maximum conductor cross-sect						ection	otion		
size		Solid	Strand- ed	Finely stranded	Finely str end sleev	anded with	Solid	Strand- ed	Finely stranded	Finely stra end sleev	anded with e ¹)
		mm²	mm ²	mm²	mm²	Size	mm²	mm ²	mm²	mm ²	Size
Single-cor	nductor 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 8WA1 011–3JF 8WA1 501, 8WA1 511, 8WA1 011–1EF	0.25 ²) 0.25 ²) 0.25 ²)	0.5 0.5 0.5	0.5 0.5 0.5	0.5 0.5 0.5	0.5–10 0.5–10 0.5–10	4 4 4	2.5 2.5 2.5	2.5 2.5 2.5	2.5 2.5 1.5	2.5–12 ⁴) 2.5–7 1.5–10
4	8WA9 200 8WA2 860 feeder terminal 8WA1 011–G	0.5 1 0.5	1.5 1.5 1.5	1.5 1.5 0.5	0.75 0.75 0.75	0.75–10 0.75–10 0.75–10	6 6 6	4 4 4	4 4 4	4 4 4	4 4–12 ⁴) 4–12 ⁴)
6	8WA1 011–1.H 8WA1 010–1PH01	0.75 0.5	1.5 1.5	1.5 1.5	0.5 0.5	0.5–10 0.5–10	10 10	6 6	6 6	6 6	6–12 6–15
16	8WA1 204, 8WA1 304, 8WA1 011–1BK11 8WA1 604, 8WA1 011–1NK02 8WA1 011–1PK00 8WA2 861 feeder terminal	1.5 1.5 1.5 1.5	2.5 2.5 2.5 2.5	2.5 4 4 4	1 1.5 1.5 2.5	1–10 ³) 1–10 ³) 1.5–7 ⁶) 2.5–12	16 16 16 16	25 25 25 16	16 16 16 10	16 16 16 10	16–12 16–12 16–15 10–12
35	8WA1 205, 8WA1 305, 8WA1 011-1BM11 8WA1 011-1PM00 8JH4 114 feeder terminal	4 4 6	10 10 10	6 10 16	6 6 6	6–15 6–15 6–15	16 ⁵) 16 ⁵) 16	50 50 36	35 35 26	35 25 26	35–18 ⁷) 25–15 MTR 35
70	8WA1 206	10	16	16	16	16–12 ⁶)	95	95	95	-	-
95	8WA1 011-1DQ, 8WA1 010-1PQ00	-	50	50	-	-	95	95	95	_	-
150	8WA1 011-1DS	-	95	95	-	-	-	150	150	_	-
240	8WA1 011-1DU	-	150	150	-	-	240	240	240	-	-
Two-wire o	connection. 2 conductors each of s	ame cros	s-sectio	h: with er	d sleeves	s.					

rwo-wire connection, 2 conductors cach of same cross-section, with the sice cos,	
the two restancy lar sleeves must be inserted in the same position	
The two rectangular sleeves must be inserted in the same dosition.	

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 8WA1 501, 8WA1 511, 8WA1 011–1EF	$2 \times 0.12^2)$ $2 \times 0.12^2)$	2 × 0.5 2 × 0.5	2 × 0.5 2 × 0.25	2 × 0.5 ⁹) -	0.75–6 –	2 × 0.75 2 × 0.75	2 × 0.5 2 × 0.5	2 × 0.5 2 × 0.75	2 × 1.5 ⁹) -	1.5–10 –
4	8WA1 011-, .G, -1DG11 8WA1 011-2DG11 8WA1 011-6DG11, top 8WA1 011-6DG11, bottom 8WA1 011-1PG00 8WA1 011-1PG11, -1NG01	2×0.5 2×0.5 2×0.5 2×0.5 2×0.5 2×0.5 2×0.5	2 × 1 2 × 1 2 × 1 2 × 1 2 × 1 2 × 1 2 × 1	2 × 1 2 × 1 2 × 1 2 × 1 2 × 1 2 × 1 2 × 1	2×0.5 2×0.5 2×0.5 2×0.5 2×0.5 2×0.5 2×0.5	$\begin{array}{c} 0.5 \times 10 \\ 0.5 \times 10 \end{array}$	2×1.5 2×1 2×1.5 2×1 2×1 2×1.5	2×1.5 2×1.5	2×1.5 2×1.5 2×1.5 2×1.5 2×1.5 2×1.5 2×1.5	2×1.5 2×1 2×1 2×1 2×1 2×1 2×1	1.5–10 1–10 1–10 1–10 1–10 1–10
6	8WA1 011–1 . H, –3DH21 8WA1 010–1PH01	2 × 0.5 2 × 0.5	$2 \times 0.75 \\ 2 \times 0.75$	$\begin{array}{c} 2\times0.75\\ 2\times0.75\end{array}$	2 × 0.5 2 × 0.5	0.5 × 10 0.5 × 10	2 × 1.5 2 × 1.5	2 × 1.5 2 × 1.5	2 × 1.5 2 × 1.5	2 × 1.5 2 × 0.75	1.5–10 1–10
16	8WA1 204, 8WA1 304, 8WA1 604, 8WA1 011–1BK11 8WA1 734	2 × 1 2 × 2.5s	2 × 2.5 -	2 × 2.5 -	2 × 1 2 × 1.5	1–10 1.5–7 ⁶)	2 × 4 2 × 4	2 × 4 2 × 4	2 × 4 2 × 4	2 × 4 2 × 4	4–12 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
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)

- End sleeves acc. to DIN 46228 Sheet 1 without insulation. Size corresponds to rated size of sleeve.
 Press using PZ 1,5i, PZ 2, PZ 4, PZ 16, MTR 35, MTR 110 clamp from Weidmüller.
 0.12/0.25 mm² corresponds to 0.4/0.6 mm Ø.

3) For 0.75 mm² conductors, use end sleeves 1–10

and press on with insert E1 or PZ 1.5.

4) With voltages > 500 V, shorten end sleeves with inserted conductor to 10 mm prior to pressing.
5) Tested up to 16 mm².

6) Fully insert two end sleeves in succession, and press.

7) Reduction in voltage to 630 V required.

8) With screw connection.

9) With PZ 1.5 above one another 🗄

10) Stripped length 27 mm.

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General technical data

Technical specifications

Terminal	Туре	for a start of the star		R ratings			
size		AWG	Rated current <i>I</i> n	Rated voltage <i>U</i> e	AWG	Rated current I _n	Rated voltage <i>U</i> e
			Α	v		Α	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	AC 240/DC 60
	8WA1 011–1SF25, –2SF25, –4SF25	14	2	-	14–12	2	AC 240/DC 60
	8WA1 011–1SF26, -2SF26, -4SF26 8WA1 011–1SF27, -2SF27, -4SF27 8WA1 011–1SF28, -2SF28, -4SF28	14 14 14	4 6 10		14–12 14–12 14–12	4 6 10	AC 240/DC 60 AC 240/DC 60 AC 240/DC 60
2.5	8WA1 011-1BF21, -1BF22, -1BF23, -1PF11	18–12	25	600	22–12	26	600
	8WA1 011-1DF11, -3DF21, -0DF21, -0DF22	18–12	25	600	22–12	26	600
	8WA1 011-1NF01, -1NF02	22–12	26	600	22–12	26	600
	8WA1 011–3JF.	_	-	-	22–12	26	300
	8WA1 011–1PF00, 8WA1 011–1PF01	22–12	-	-	22–12	-	-
	8WA1 501	22–12	10	300 D	22–12	10	300
4	8WA1 011–1PG00, 8WA1 011–1PG01	18–10	_	_	18–10	_	_
	8WA1 011–1BG11, -1BG21, -1BG22	18–10	40	600	18–10	35	600
	8WA1 011–1DG11, -3DG21, -0DG21, -0DG22	18–10	40	600	18–10	35	600
	8WA1 011–1NG31, –1NG32	18–10	40	600	18–10	35	600
	8WA1 011–1PG11	18–10	40	600	–	-	-
	8WA1 011–2BG11, –2DG11	18–10	40	300	18–10	35	600
	8WA1 011–6BG11, –6DG11 8WA1 011–6EG 8WA9 200	18–10 – 18–10	_40 _25	300 - 300	18–10 18–10 18–10	35 34 26	600 300 600
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 8WA1 204, 8WA1 304 8WA1 604	_ 14_6 _	70 	_ 600 _	- 12-4 12-4	79 79 73	600 600 300
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
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	8WA1 011-1DQ10	4/0-2/0	250	600	1-4/0	-	600
150	8WA1 011-1DS10	max. 300 MCM	365	600	1/5–5/0	_	600
240	8WA1 011-1DU10	300–500 MCM	600	600	300–500 MCM	-	600

Conductor cross-sections according to "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 21 20 19	0.643 0.724 0.813 0.912	0.33 0.41 0.52 0.65	10 9 8 7	2.588 2.906 3.268 3.665	5.26 6.63 8.37 10.55	3/0 4/0 5/0 6/0	10.404 11.684	85.01 107.21 135.35 170.50

1) Plug connection.

Labeling accessories

Selection and ordering data



Labeling plates for terminal blocks, 1 frame = 68 labeling plates



Device labeling plates, 1 frame = 20 labeling plates

Version	Inscription area/color W × H	DT	Order No.	PS*	Weight per PU approx.	
	mm × mm				kg	
Blank labeling plates (plotte	er inscription)					
Labeling plates (only available as pack)						
Individually removable for 8WA1	5×7 , white	А	8WA8 850-2AY	1020 units	0.176	
and 8WA2	5×10 , white ¹)	A	8WA8 851-2AY	1020 units	0.185	
Use individually for 8WA1, or together in grid for 8WA2						
Terminal size 2.5 mm ²	5 × 7	А	8WA8 852-2AY	1260 units	0.202	
	5 × 10	А	8WA8 854–2AY	1260 units	0.210	
For 8WA2 from terminal size 4 mm ²	6 × 7	А	8WA8 853-2AY	1080 units	0.193	
	6 × 10	А	8WA8 855-2AY	1080 units	0.215	
Device identification labeling plates	20×9 , white	А	3TX4 210–0R	380 units	0.307	
Labeling plates for individual wires	4×12 , white 4×18 , white		Obtainable from: Murrplastik			

Computer labeling system For individual inscription

Obtainable from:

Systemtechnik GmbH

of:

Labeling plates for terminal blocks murrplastik
 Device identification labeling Systemtech

plates

• Labeling plates for individual wires

1) Not for two-tier terminals (bottom level); flat-pin terminals: 8WA1 010-1PQ00, 8WA1 808.

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Labeling accessories

Selection and ordering data



Horizoptol	incorintion
DOUZOUIAL	INSCIDUION

Version	DT	Order No.	PS*	Weight per PU
				approx.
				kg
Labeling plates, type 1 Label size 5 mm x 7 mm inscription height 2 mm grid size 6.2 mm (1 pack = 200 labeling plates, only available as pack)				
Vertical inscription	В	8WA8 860-□□□	200 units	
Horizontal	В	8WA8 861-000	200 units	
Inscription		Ī		
15 (40x)		0BA		
610 (40x)		0BB		
1115 (40x)		0BC		
1620 (40x)		0BD		
2125 (40x)		0BE		
2630 (40x)		0BF		
3135 (40x)		0BG		
3640 (40x)		0BH		
4145 (40x)		0BJ		
4650 (40x)		0BK		
5155 (40x)		0BL		
5660 (40x)		0BM		
6165 (40x)		0BN		
6670 (40x)		0BP		
7175 (40x)		0BQ		
7680 (40x)		0BR		
8185 (40x)		0BS		
8690 (40x)		0BT		
9195 (40x)		0BU		
96100 (40x)		0BV		
120 (10x)		0AB		
140 (5x)		0AC		
41100 (3x)		0AD		
101200 (2x)		0AF		
201300 (2x)		0AG		
19, plain (20x)		0AA		
1100 (2x)		0AE		
A, BT (10x)		1AA		
U, V, W, X, Y, Z (30x) +, - (10x)		1AB		
L1, L2, L3, N, PE (40x)		1AC		
U1, V1, W1, U2, V2, W2, (30x); plain (20x)		1AD		
T1, T2, T3 (60x); plain (20x)		1AE		
T4, T5, T6 (60x); plain (20x)		1AF		
+		1AG		
-		1AH		

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Labeling accessories

Selection and ordering data



8WA8 861-0AQ

Version	DT	Order No.	PS*	Weight
				approx.
				kg
Labeling plates, type 2 Label size 5 mm x 7 mm inscription height 2 mm grid size 6.2 mm (1 pack = 200 labeling plates, only available as pack)				
Horizontal inscription	В	8WA8 861-000	200 units	
Inscription		Ī		
10, 20, 30,200 (10x yellow)		OCA		
210, 220,400 (10x yellow)		0CB		
410, 420,600 (10x yellow)		000		
610, 620,800 (10x yellow)		0CD		
810, 820,990 (10x yellow)		0CE		
Black warning arrows on yellow label		0CF		
1, 2, 3, 4,200 (1x)		0AQ		
201, 202,400 (1x)		0AR		
401, 402,600 (1x)		0AS		
601, 602,800 (1x)		0AT		
801, 802,999 (1x)		UAO		

Labeling accessories

Selection and ordering data



8WA8 847-2AF

Version	DT	Order No.	PS*	Weight per PU
				approx.
				кg
Labeling plates, type 3 Label size 5 mm x 7 mm inscription height 2 mm grid size 6.2 mm (1 pack = 100 labeling plates, only available as pack)				
Vertical inscription	В	8WA8 847-□□□	100 units	
Horizontal inscription	В	8WA8 848-□□□	100 units	
Inscription		T T		
L1 (100x)		2AC		
L2 (100x)		2AD		
L3 (100x)		2AE		
N		1AR		
MP		2AB		
PE		2AH		
L+		2AF		
L-		2AG		
Green-yellow		2BA		
Blue		2BC		
PEN		2AJ		
E		2AA		
A		1AK		
E		1AS		
F		1AL		
Н		1AM		
К		1AN		
M		1AP		
N		1AR		
Q		1AQ		
R		1AA		
<u>S</u>		1AB		
T		1AC		
U		1AD		
V		1AE		
W		1AF		
X		1AG		
Y		1AH		
Ζ		1AJ		
Labeling plates, inscription as selected Label size 5 mm x 7 mm character height 2 mm grid size 6.2 mm (1 pack = 100 labeling plates, only available as pack)				
Vertical inscription	С	8WA8 847-0XA	100 units	
Horizontal inscription	С	8WA8 848-0XA	100 units	
Labeling plates.	А	8WA8 848-2AY	100 units	

Labeling plates, without inscription Label size 5 mm x 7 mm not suitable for plotting (1 pack = 100 labeling plates, only available as pack)

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Labeling accessories

Select	ion and ordering data					
		Voreion	DT	Order No	DC*	Woight
		Version	DI	Older No.	гJ	per PU
						approx.
						kg
7	1	Labeling strips for label holders 8WA1 876/883/881	В	8WA8 818-□□□	500 units	
7	3	(1 pack = 50 strips = 500 labeling plates,		↑		
7	4 5					
7	6 7			051		
7	8	0		OEJ	-	
7		1		UAA		
10003	100	2		UAD		
LISE R		3		UAC		
		4		UAD		
		5		UAE	_	
		6		0AF	_	
		7		0AG		
		8		0AH		
		9		0AJ		
		1 to 0		0GA		
		А		1AK		
		В		1AS		
		С		1AT		
		D		1AU		
		E		1AV		
		F		1AL		
		G		1AW		
		Н		1AM		
		К		1AN		
		L		1AX		
		Μ		1AP		
		N		1AR		
		P		1AY		
		Q		1AQ		
		B		144		
		S		148	_	
		<u>т</u>		140		
		· U		14D		
		<u> </u>		145		
				145	_	
		×		140		
		<u>^</u>		140		
		7		141		
		Σ		IAJ		
		+		241	_	
				2AU		
		·		2AV		
		:		2AW		
		=		2AX	_	
				288		
		Labeling strips, without inscription for label holders 8WA1 876/883/881 (1 pack = 50 strips = 500 labeling plates, only available as pack)	, ,	8WA8 818-2AY	500 units	0.010
3		Label holders for identification of term with labeling strips 8WA8 818	inals			
1		for 8WA1, 8WA2, 8WA9 200	4 labeling A plates	8WA1 876	100 units	0.015
8WA1 87	76	except 8WA1 010, 8WA1 207,	6 labeling A	8WA1 883	100 units	0.018
		8WA1 208, label holder S (1 pack = 100 holders, only available as pack)	plates			

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Labeling accessories

Selection and ordering data

	Version		Number of labeling plates	DT	Order No.	PS*	Weight per PU approx.
	Group identification label for 8WA2 terminals for plugging onto insulation plates or insulating plates I = 100 mm white			A	8WA2 838	50 units	0.001
T	Label holders for 8WA2 terminals for insertion into test opening			A	8WA2 850	50 units	0.001
	End label 21 × 42 mm Paper label, inscription possible, with transparent cov suitable for end retainers 8WA1 805, 8WA1 808 and 8	er, WA2 808		A	8WA1 806	50 units	0.005
WA8 826-0AA	Terminal strip label suitable for end retainers 8WA1 808 and 8WA2 808, printed with X1 X2 X3 Plain			A A A B	8WA8 826-0AA 8WA8 826-0AB 8WA8 826-0AC 3TX4 210-0H	100 units 100 units 100 units 100 units	0.030 0.029 0.029 0.029
	Label holders for identification of wires with labeling strips 8WA8 818 Wires from 2 mm to 10 mm Ø with max. 8 labeling plates of labeling strip 8WA8 818-□□□ Width 5 mm (1 pack = 1000 holders)		8 Max. 8 labeling plates of labeling strip 8WA8 818	A	8WA1 881	1000 units	0.474
	Labeling plates for wires Wires from 2 mm to 10 mm Ø Labeling plate for inscription with waterproof pen Inscription area 9 mm x 30 mm (1 pack = 1000 labeling plates)			A	8WA8 846-2AY	1000 units	0.697

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Mounting accessories

Selection and ordering data

	Version	DT	Order No.	PS*	Weight per PU approx.
					kg
8WA1 867	Test plugs for terminals 8WA1 and 8WA2 with 2.3 mm Ø hole or test sockets 8WA1 854, 8WA1 884 Uninterrupted current 10 A White Red Blue	A A A	8WA1 867 8WA1 868 8WA1 870	10 units 10 units 10 units	0.002 0.002 0.002
8WA1 884	Test socket 2.3 mm Ø and associated distance sleeve for link rails, terminal sizes 2.5 and 4, two-tier terminals, rear level, terminal size 6 Uninterrupted current 10 A Test socket 1) Distance sleeve 1)	A A	8WA1 884 8WA1 822-7VH11	100 units 100 units	0.001 0.001
	Reduction plug for terminals 8WA1 and 8WA2 with 2.3 mm Ø hole or test sockets 8WA1 854, 8WA1 884 Continuous current 10 A With 4 mm Ø hole	A	8WA1 871	10 units	0.006
	Standard mounting rail, non-perforated Standard mounting rail, perforated EN 50022-35 × 7.5 2 m long, 1 mm thick, steel, Sendzimir galvanized	B B	5ST1 141 5ST1 145	1 unit 1 unit	0.700 0.700
5ST1 141	Standard mounting rail similar to EN 50022-35 × 15 2 m long, 1.5 mm thick, steel, galvanized, chromized, non-perforated	В	5ST1 142	1 unit	1.300
	Standard mounting rail EN 50022-35 × 15 2 m long, 2.3 mm thick, copper, non-perforated	A	8WA7 551	10 units	2.117
8WA1 808	End retainer Width 10 mm Molded thermoplastic suitable for end label 8WA1 806 or terminal strip label 8WA8 826-0A. or device label 3TX4 210-0H or 4 labeling plates 8WA8 8	A	8WA1 808	50 units	0.014
8WA1 805	End retainer²) Width 10.3 mm Steel suitable for end label 8WA1 806	A	8WA1 805	50 units	0.014

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The test socket must be used with a distance sleeve.
 A 8WA1 820 barrier must be inserted in the case of end retainers against a 8WA1 89. link rail (size 2.5).

Mounting accessories

Selection and ordering data

Dimensions	Version	DT	Order No.	PS*	Weight per PU approx.
0 0 0 0 0 0 0 0 0 0 0 0 0 0	Mounting bracket for standard mounting rails	A	8WA7 46	10 units	0.063
	Spacer bracket for raised mounting of terminal strips	A	8WA7 53	50 units	0.038
	Spacer with 5.5 mm hole for raised mounting of terminal strips	A	8WA7 52	100 units	0.007
	Insulation carrier for insulated mounting of mounting rails onto plates, frame profiles and standard mounting rails acc. to EN 50022-35	A	8WA1 857	20 units	0.010
	Label for identification of insulation carrier	A	8WA1 864	100 units	0.009
	Fixing part for screw mounting of 8WA1 304, 8WA1 011–3DF21, 8WA1 011–3DG21, 8WA1 011–0DG22, 8WA1 011–3DH21 terminal blocks and single terminals (no end retainer required)	А	8WA1 815	1 unit	0.020

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