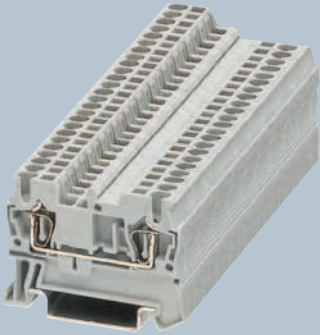


Terminals with Spring-Loaded Connection

12



8WH terminals¹⁾

12/2	Introduction
12/4	General data on 8WH
12/8	8WH through-type terminals ²⁾
12/23	8WH hybrid through-type terminals ²⁾
12/26	8WH fuse terminals
12/29	8WH isolating blade terminals
12/32	8WH isolating terminals
12/35	8WH two-tier terminals ²⁾
12/41	8WH three-tier terminals 
12/43	8WH four-tier motor terminals
12/45	8WH diode terminals
12/47	8WH two-tier diode terminals
12/50	8WH compact through-type terminals ²⁾
12/58	8WH compact isolating blade terminals
12/60	8WH compact isolating terminals
12/62	8WH compact two-tier terminals ²⁾
12/64	Support rails/ protective conductor busbars

8WA terminals

12/65	General data on 8WA
12/67	8WA through-type terminals ²⁾
12/72	8WA neutral isolating terminals
12/74	8WA two-tier terminals
12/76	8WA fuse terminals
12/77	8WA terminals for components
12/78	8WA diode terminals
12/79	8WA sliding-link terminals
12/80	8WA Insta or three-tier terminals
12/83	8WA initiator/actuator terminals
12/85	8WA general technical specifications

¹⁾ 8WH accessories can only be used for 8WH terminals.

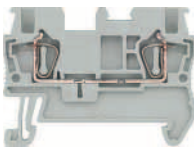
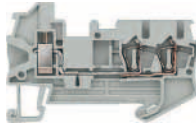
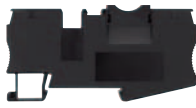
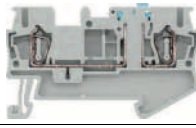
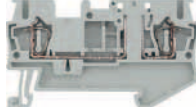
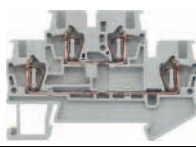
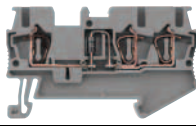
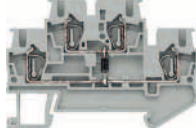
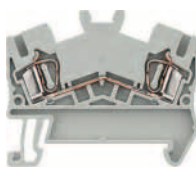
²⁾ Also available as a PE version

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

Introduction

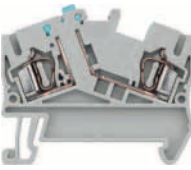
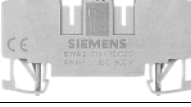
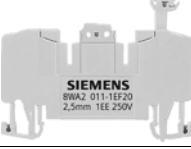
Overview

	Devices	Page	Application
8WH terminals			
	Through-type terminals	12/8	Connection of incoming and outgoing conductors up to 35 mm ²
	Hybrid through-type terminals	12/23	Terminals with a range of connection methods
	Fuse terminals	12/26	Terminals that protect, e.g. control circuits
	Isolating blade terminals	12/29	Isolation of the circuit, e.g. for test purposes
	Isolating terminals	12/32	Isolation of the circuit, e.g. for test purposes
	Two-tier terminals	12/35	Compact design of the terminal blocks, which can accommodate installation of two connecting cables
	Three-tier terminals 	12/41	Compact terminal blocks up to 2.5 mm ² , which can accommodate installation of three connecting cables
	Four-tier motor terminals	12/43	Compact terminal blocks up to 4 mm ² , which can accommodate installation of three connecting cables plus PE
	Diode terminals	12/45	Terminal blocks with integrated diodes
	Two-tier diode terminals	12/47	Terminal blocks with integrated diodes
	Compact through-type terminals	12/50	Compact terminals up to 6 mm ² with small longitudinal dimensions

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

Introduction

	Devices	Page	Application
	Compact isolating blade terminals	12/58	Compact terminals up to 2.5 mm ² with small longitudinal dimensions and isolation of circuits, e.g. for test purposes
	Compact isolating terminals	12/60	Compact terminals up to 2.5 mm ² with small longitudinal dimensions and isolation of circuits, e.g. for test purposes
	Compact two-tier terminals	12/62	Compact terminal blocks up to 4 mm ² , which can accommodate installation of two connecting cables
8WA terminals			
	Through-type terminals	12/67	Connection of incoming and outgoing cables up to 35 mm ²
	Neutral isolating terminals	12/72	Connection of neutral isolating terminal to neutral busbar 3 mm × 10 mm
	Two-tier terminals	12/74	Compact terminal blocks up to 4 mm ² , which can accommodate installation of two connecting cables
	Fuse terminals	12/76	Terminals up to 4 mm ² that protect, e.g. control circuits
	Terminals for components	12/77	Terminals up to 4 mm ² that enable installation of components in the circuit
	Diode terminals	12/78	Terminal blocks (2.5 mm ² and 4 mm ²) with integrated diodes or isolation for test purposes
	Sliding-link terminals	12/79	Terminal blocks with 2.5 mm ² for isolation for test purposes
	Insta or three-tier terminals	12/80	These terminals have up to three terminal functions in one enclosure and connection to a neutral busbar 10 mm × 3 mm. They are optimized for distribution board applications in installation technology
	Initiator/actuator terminals	12/83	Special terminals for connection of sensors and actuators

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

General data on 8WH

Overview

Conductor cross-section	Connection type →		Standard spring-loaded connection					Order No. (digits 8 ... 12)
	Connection type →		Standard			Two-tier		
	Number of clamping points →		2	3	4	4	6	
	Order No. (Digits 1 ... 7) →		8WH2 000	8WH2 003	8WH2 004	8WH2 020	8WH2 023	
	Terminal type ¹⁾	Color						
1.5 mm ²	Through-type	Gray	✓	✓	✓	✓	--	0AE00
		Blue	✓	✓	✓	✓	--	0AE01
	PE	Green-yellow	✓	✓	✓	✓	--	0CE07
2.5 mm ²	Through-type	Gray	✓	✓	✓	✓	✓	0AF00
		Blue	✓	✓	✓	✓	✓	0AF01
	Isolating	Gray	✓	✓	✓	--	--	6AF00
	Isolating blade	Gray	✓	✓	✓	--	--	0CF00
		Blue	--	--	✓	--	--	6CF01
	PE	Green-yellow	✓	✓	✓	✓	✓	0CF07
4 mm ²	Through-type	Gray	✓	✓	✓	✓	--	0AG00
		Blue	✓	✓	✓	✓	--	0AG01
	Isolating	Gray	✓	--	--	--	--	6AG00
	Isolating blade	Gray	✓	--	--	--	--	6CG00
		PE	Green-yellow	✓	✓	✓	✓	--
6 mm ²	Through-type	Gray	✓	✓	--	--	--	0AH00
		Blue	✓	✓	--	--	--	0AH01
	PE	Green-yellow	✓	✓	--	--	--	0CH07
10 mm ²	Through-type	Gray	✓	--	--	--	--	0AJ00
		Blue	✓	--	--	--	--	0AJ01
	PE	Green-yellow	✓	--	--	--	--	0CJ07
16 mm ²	Through-type	Gray	✓	--	--	--	--	0AK00
		Blue	✓	--	--	--	--	0AK01
	PE	Green-yellow	✓	--	--	--	--	0CK07
35 mm ²	Through-type	Gray	✓	--	--	--	--	0AM00
		Blue	✓	--	--	--	--	0AM01
	PE	Green-yellow	✓	--	--	--	--	0CM07

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

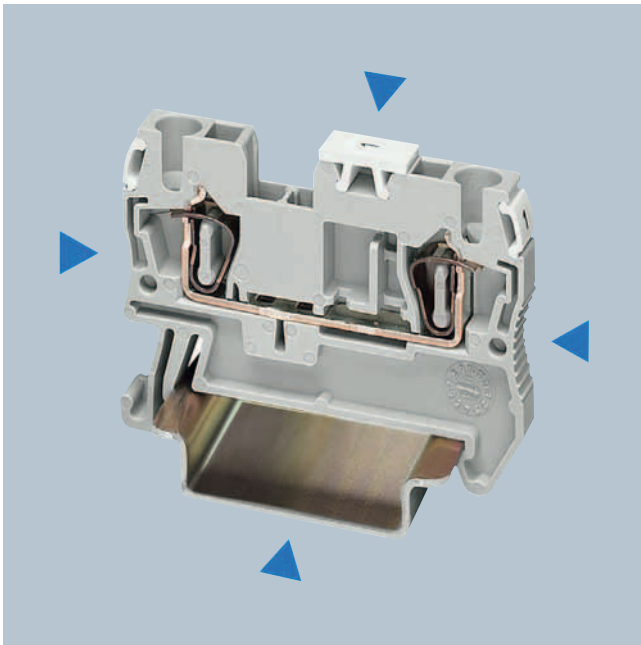
Rated short-time withstand current

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

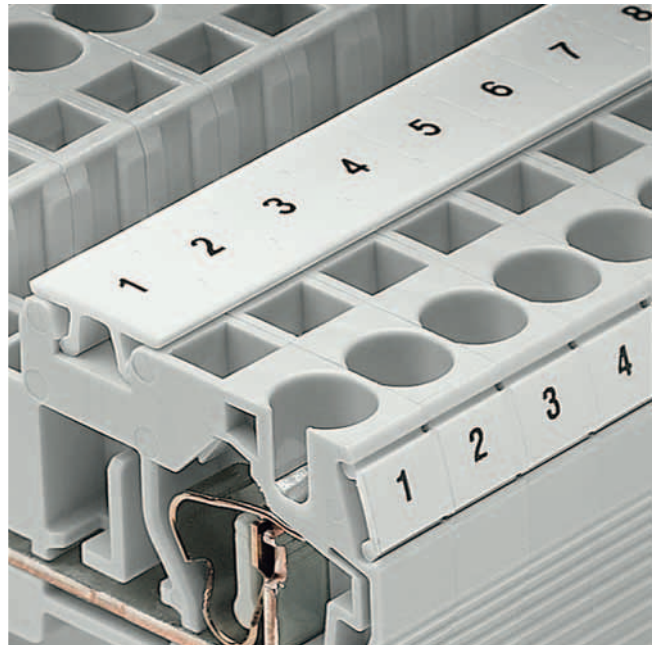
ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

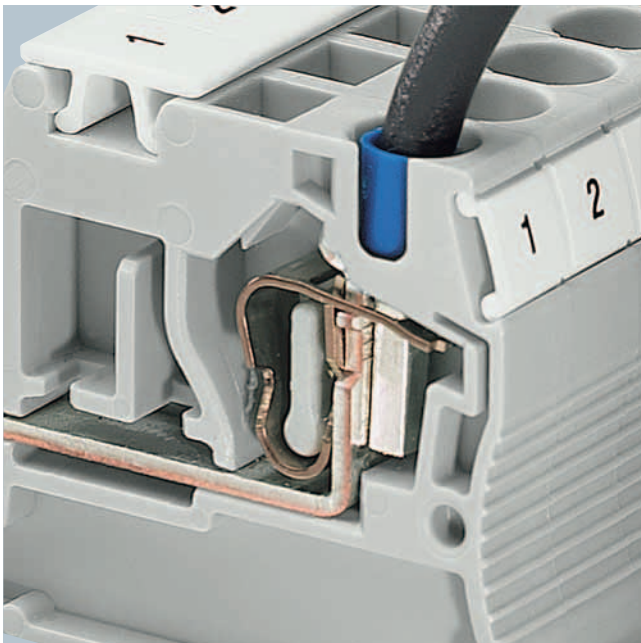
General data on 8WH



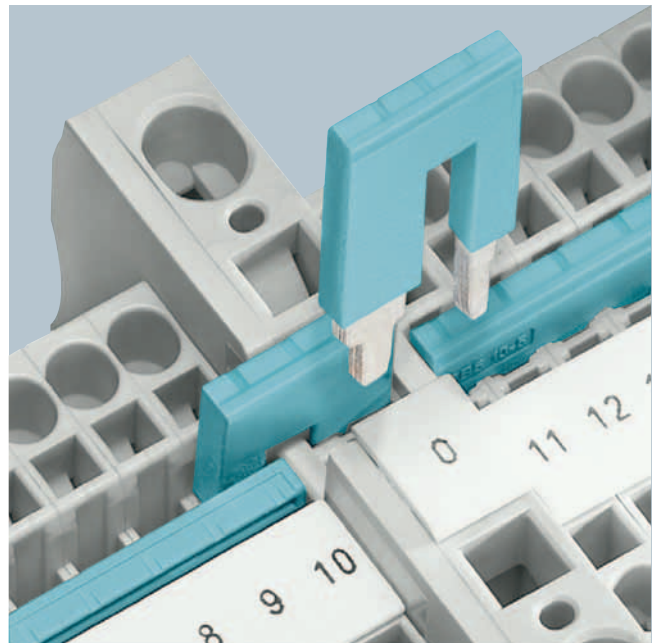
The space-saving design and conductor routing from above make spring-loaded terminals ideal for controlgear installations with minimum available space. The terminals are open at one end and can be closed using the appropriate covers.



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



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

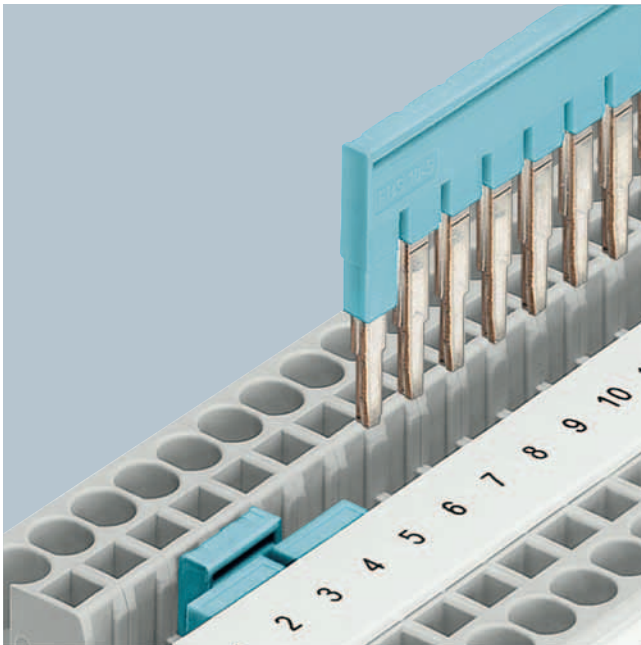


Reducing combs enable easy connection of terminals with various nominal cross-sections. Reducing combs allow quick assembly of infeed blocks, e.g. to connect a 10 mm² spring-loaded terminal with a 2.5 or 4 mm² spring-loaded terminal.

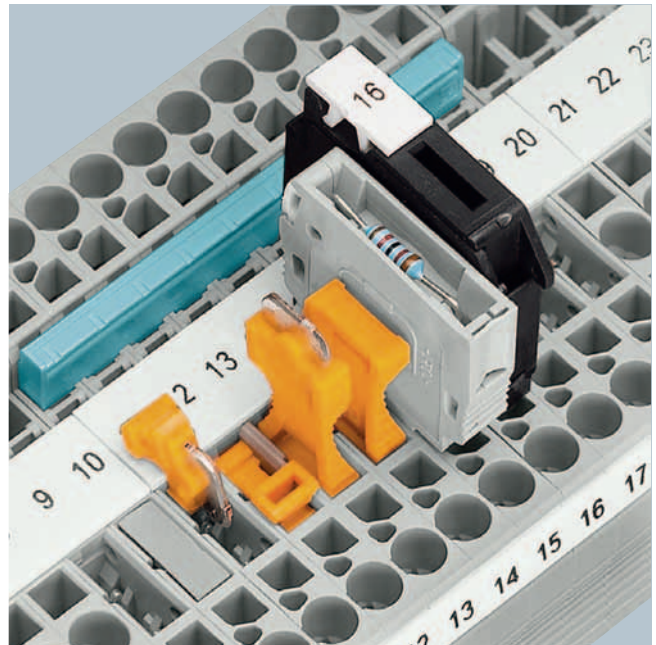
ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

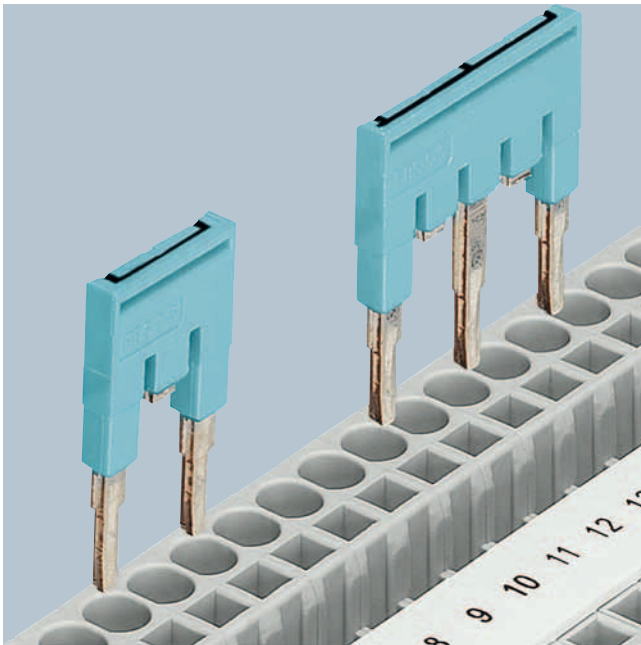
General data on 8WH



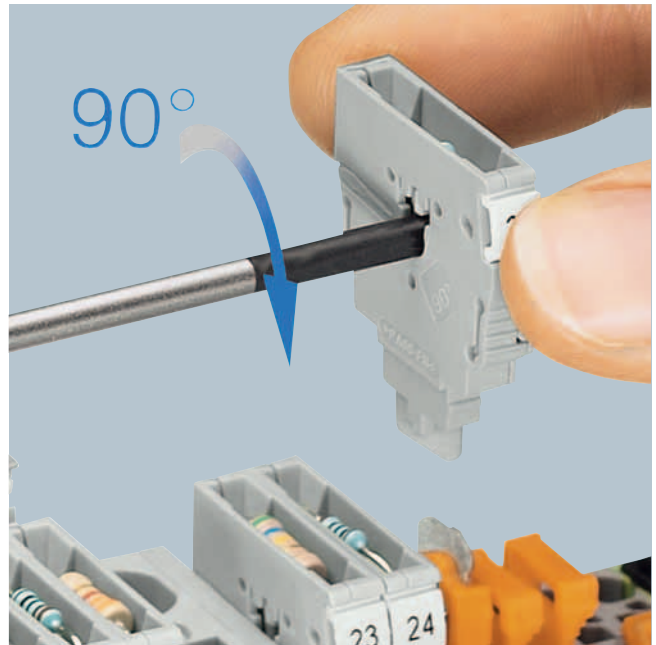
The 2- to 50-pole connecting combs also considerably reduce the time needed for assembly and wiring as they enable up to 50 terminals to be connected in a single step.



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



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

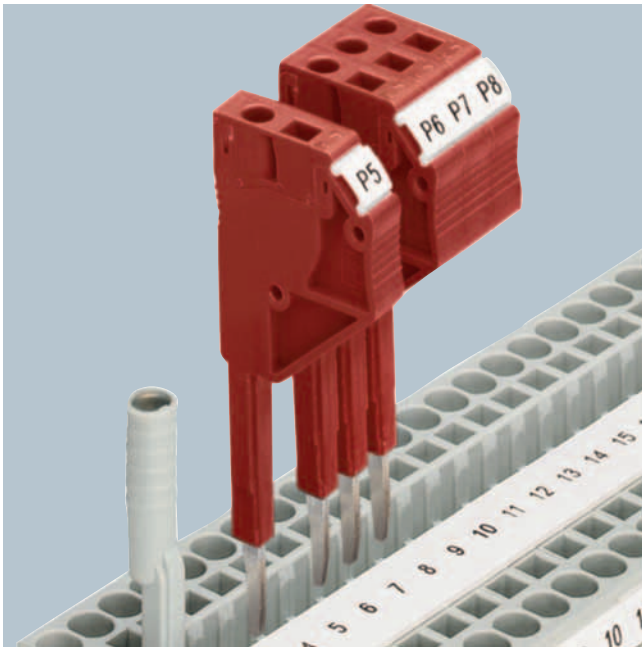


The component connector enables the convenient equipping with electronic components. One turn of the screwdriver opens the contact points and the component is easily inserted.

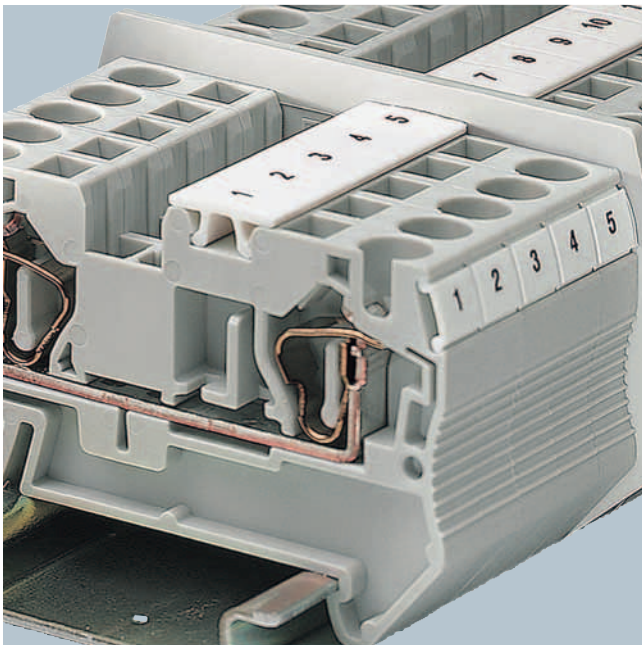
ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

General data on 8WH



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



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



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

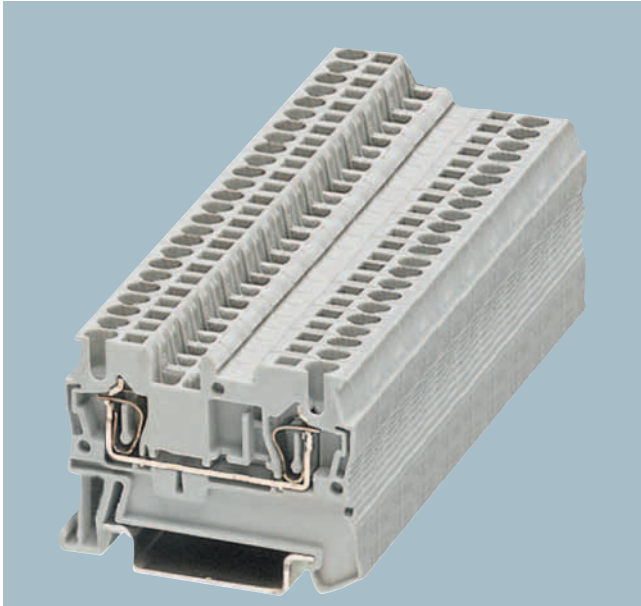
Note: The accessories for 8WH can only be used for 8WH terminals.

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

8WH through-type terminals

Overview



With two clamping points

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

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

With three clamping points

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

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

With four clamping points

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

PE/ground conductor function

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

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

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

Technical specifications

	8WH2 000-0AE0.	8WH2 000-0CE07	8WH2 003-0AE00 8WH2 003-0AE01	8WH2 003-0CE07	8WH2 004-0AE00 8WH2 004-0AE01
Dimensions					
• Width / length / width of cover in mm	4.2 / 48.5 / 2.2		4.2 / 60.5 / 2.2		4.2 / 72 / 2.2
• Height (NS 35/7.5 / NS 35/15) in mm	36.8 / 44		36.5 / 44		
Technical specifications acc. to IEC/DIN VDE					
• Max. load current in A / cross-section in mm²	17.5 / 1.5	--	17.5 / 1.5	--	17.5 / 1.5
• Rated impulse withstand voltage in kV / pollution degree	6 / 3				
• Overvoltage category / insulating group	III / I				
Connection capacities					
• Flexible with end sleeve with plastic sleeve in mm²	0.25 ... 1.5				
• Flexible with end sleeve without plastic sleeve in mm²	0.25 ... 1.5				
• Flexible with two-wire connection end sleeve with plastic sleeve in mm²	0.5				
Stripped length in mm	10				
Plug gage (IEC 60947-1)	A1				
Insulation type	PA				
• Flammability class acc. to UL 94	V0				
Approval data (UL/CUL and CSA)					
• Rated voltage / current / cable sizes					
- UL/CUL: in V/A / AWG	300 / 15 / 26-14	-- / -- / 26-14	300 / 15 / 26-14	-- / -- / 26-14	300 / 15 / 26-14
- CSA: in V/A / AWG	300 / 15 / 26-14	-- / -- / 26-14	300 / 15 / 26-14	--	300 / 15 / 26-14
Support rails/protective conductor busbars	--	See section Support rails	--	See section Support rails	--

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

8WH through-type terminals

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

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

8WH through-type terminals

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

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

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

8WH through-type terminals

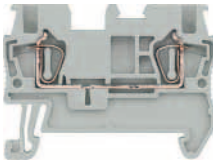
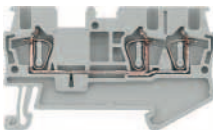
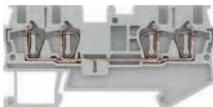
	8WH2 000-0AK00 8WH2 000-0AK01	8WH2 000-0CK07	8WH2 000-0AM00 8WH2 000-0AM01	8WH2 000-0CM07
Dimensions				
• Width / length / width of cover in mm	12 / 80 / 2.2		16 / 100 / --	
• Height (NS 35/7.5 / NS 35/15) in mm	51 / 58.5		59 / 66.5	
Technical specifications acc. to IEC/DIN VDE				
• Max. load current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

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

8WH through-type terminals

Selection and ordering data

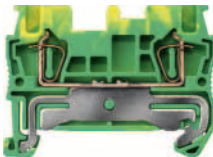
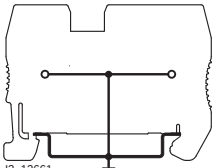
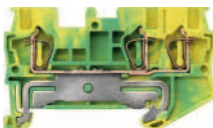
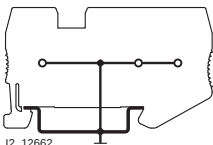
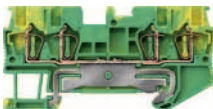
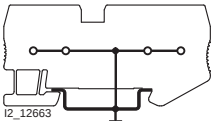
Version	DT	Order No.	Price per PU	PU	PS*/ P. unit	PG					
				Unit(s)	Unit(s)						
Terminal size 1.5 mm²											
Through-type terminals, terminal size 1.5 mm² - Terminal width 4.2 mm - CE mark - IEC 60947-7-1 - Rigid 0.08 - 1.5 mm² - Flexible 0.08 - 1.5 mm² - AWG 28-16 - I = 17.5 A - The total current through all connected conductors must not exceed the max. load current - U = 500 V - EN 50019 - Rigid 0.14 - 1.5 mm² - Flexible 0.14 - 1.5 mm² - AWG 26-16 - I = 17.5 A - U = 420 V											
Versions											
 8WH2 000-0AE00	- Two clamping points - Gray - Blue - Orange - Red - Black - Green - White - Yellow	A A B B B B B B	8WH2 000-0AE00 8WH2 000-0AE01 8WH2 000-0AE04 8WH2 000-0AE02 8WH2 000-0AE08 8WH2 000-0AE03 8WH2 000-0AE05 8WH2 000-0AE06	1 1 1 1 1 1 1 1	50 50 50 50 50 50 50 50	044 044 044 044 044 044 044 044					
 8WH2 003-0AE00	- Three clamping points - Gray,  - Blue	A A	8WH2 003-0AE00 8WH2 003-0AE01	1 1	50 50	044 044					
 8WH2 004-0AE00	- Four clamping points - Gray,  - Blue	C C	8WH2 004-0AE00 8WH2 004-0AE01	1 1	50 50	044 044					
Accessories		Section	Page								
- Covers, for terminal sizes 1.5 to 2.5 mm² - For two clamping points - For three clamping points - For four clamping points - Cover segments, for terminal size 1.5 to 2.5 mm² - Warning covers, for terminal size 1.5 mm²		Accessories	12/22	C	8WH9 000-1GA00 8WH9 000-2GA00 8WH9 000-4GA00	100 100 100	50 50 50	044 044 044			
		Accessories	12/22	A	8WH9 000-0GA00	100	10	044			
		Accessories	12/22	B	8WH9 061-5AA06	100	50	044			

* You can order this quantity or a multiple thereof.

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

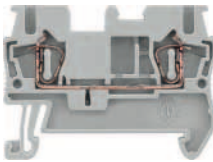
8WH through-type terminals

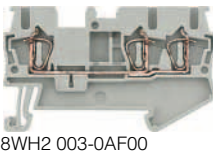
Version	DT	Order No.	Price per PU	PU	PS*/ P. unit	PG			
				Unit(s)	Unit(s)				
 8WH2 000-0CE07  I2_12661 8WH2 000-0CE07  8WH2 003-0CE07  I2_12662 8WH2 003-0CE07  8WH2 004-0CE07  I2_12663 8WH2 004-0CE07	Through-type PE terminals, terminal size 1.5 mm² - Terminal width 4.2 mm  - IEC 60947-7-1 - Rigid 0.08 - 1.5 mm² - Flexible 0.08 - 1.5 mm² - AWG 28-16 - EN 50019 - Rigid 0.14 - 1.5 mm² - Flexible 0.14 - 1.5 mm² - AWG 26-16 - Green-yellow								
Versions									
- Two clamping points,  - Three clamping points - Four clamping points, 			A	8WH2 000-0CE07	1	50	044		
			A	8WH2 003-0CE07	1	50	044		
			C	8WH2 004-0CE07	1	50	044		
Accessories	Section	Page							
- Covers, for terminal sizes 1.5 to 2.5 mm² - For two clamping points - For three clamping points - For four clamping points - Cover segments, for terminal size 1.5 to 2.5 mm²			Accessories	12/22	C	8WH9 000-1GA00	100	50	044
	Accessories	12/22	C	8WH9 000-2GA00	100	50	044		
	Accessories	12/22	C	8WH9 000-4GA00	100	50	044		
	Accessories	12/22	A	8WH9 000-0GA00	100	10	044		

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

8WH through-type terminals

Version			DT	Order No.	Price per PU	PU	PS*/P. unit	PG
						Unit(s)	Unit(s)	
Terminal size 2.5 mm²								
 8WH2 000-0AF00								
Through-type terminals, terminal size 2.5 mm², two clamping points - Terminal width 5.2 mm - CEUS - IEC 60947-7-1 - Rigid 0.08 - 4 mm² - Flexible 0.08 - 2.5 mm² - AWG 28-12 - I = 31 A - U = 800 V - EN 50019 - Rigid 0.2 - 4 mm² - Flexible 0.2 - 2.5 mm² - AWG 24-12 - I = 25/21 A - U = 550 V								
Versions								
- Gray - Blue - Orange - Red - Black - Green - White - Yellow				A	8WH2 000-0AF00	1	50	044
				A	8WH2 000-0AF01	1	50	044
				B	8WH2 000-0AF04	1	50	044
				B	8WH2 000-0AF02	1	50	044
				B	8WH2 000-0AF08	1	50	044
				B	8WH2 000-0AF03	1	50	044
				B	8WH2 000-0AF05	1	50	044
				B	8WH2 000-0AF06	1	50	044
Accessories		Section	Page					
Compartment partitions, for terminal size 1.5 to 4 mm² and two clamping points		Accessories	12/22	C	8WH9 070-0AA00	100	50	044
Covers, for terminal sizes 1.5 to 2.5 mm² and two clamping points		Accessories	12/22	C	8WH9 000-1GA00	100	50	044
Warning covers, for terminal size 2.5 mm²		Accessories	12/22	B	8WH9 060-5AA06	100	50	044

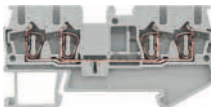
 8WH2 003-0AF00								
Through-type terminals, terminal size 2.5 mm², three clamping points - Terminal width 5.2 mm - CEUS - IEC 60947-7-1 - Rigid 0.08 - 4 mm² - Flexible 0.08 - 2.5 mm² - AWG 28-12 - I = 28 A - The total current through all connected conductors must not exceed the max. load current - U = 800 V - EN 50019 - Rigid 0.2 - 4 mm² - Flexible 0.2 - 2.5 mm² - AWG 24-12 - I = 25/21 A - The total current through all connected conductors must not exceed the max. load current - U = 550 V								
Versions								
- Gray - Blue				A	8WH2 003-0AF00	1	50	044
				A	8WH2 003-0AF01	1	50	044
Accessories		Section	Page					
Compartment partitions, for terminal size 1.5 to 4 mm² and three clamping points		Accessories	12/22	C	8WH9 070-0GA00	100	50	044
Covers, for terminal sizes 1.5 to 2.5 mm² and three clamping points		Accessories	12/22	C	8WH9 000-2GA00	100	50	044
Cover segments, for terminal sizes 1.5 to 2.5 mm²		Accessories	12/22	A	8WH9 000-0GA00	100	10	044
Warning covers, for terminal size 2.5 mm²		Accessories	12/22	B	8WH9 060-5AA06	100	50	044

* You can order this quantity or a multiple thereof.

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

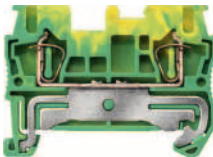
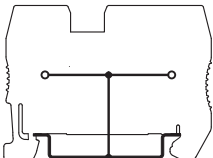
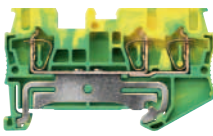
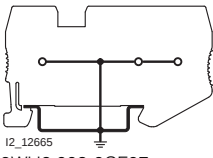
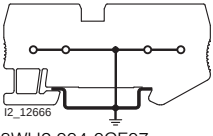
8WH through-type terminals

Version			DT	Order No.	Price per PU	PU	PS*/P. unit	PG
						Unit(s)	Unit(s)	
 8WH2 004-0AF00	Through-type terminals, terminal size 2.5 mm², four clamping points - Terminal width 5.2 mm  - IEC 60947-7-1 - Rigid 0.08 - 4 mm² - Flexible 0.08 - 2.5 mm² - AWG 28-12 - I = 28 A - The total current through all connected conductors must not exceed the max. load current - U = 800 V - EN 50019 - Rigid 0.2 - 4 mm² - Flexible 0.2 - 2.5 mm² - AWG 24-12 - I = 24/21 A - The total current through all connected conductors must not exceed the max. load current - U = 550 V							
	Versions - Gray - Blue			C	8WH2 004-0AF00	1	50	044
			C	8WH2 004-0AF01	1	50	044	
Accessories								
	Section	Page						
• <i>Compartment partitions, for terminal size 1.5 to 4 mm² and four clamping points</i>	Accessories	12/22	C	8WH9 070-0HA00		100	50	044
• <i>Covers, for terminal sizes 1.5 to 2.5 mm² and four clamping points</i>	Accessories	12/22	C	8WH9 000-4GA00		100	50	044
• <i>Cover segments, for terminal sizes 1.5 to 2.5 mm²</i>	Accessories	12/22	A	8WH9 000-0GA00		100	10	044
• <i>Warning covers, for terminal size 2.5 mm²</i>	Accessories	12/22	B	8WH9 060-5AA06		100	50	044

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

8WH through-type terminals

Version			DT	Order No.	Price per PU	PU	PS*/ P. unit	PG		
						Unit(s)	Unit(s)			
 8WH2 000-OCF07  I2_12664 8WH2 000-OCF07  8WH2 003-OCF07  I2_12665 8WH2 003-OCF07  8WH2 004-OCF07  I2_12666 8WH2 004-OCF07			Through-type PE terminals, terminal size 2.5 mm² - Terminal width 5.2 mm - CEC US - IEC 60947-7-2 - Rigid 0.08 - 4 mm² - Flexible 0.08 - 2.5 mm² - AWG 28-12 - EN 50019 - Rigid 0.2 - 4 mm² - Flexible 0.2 - 2.5 mm² - AWG 24-12 - Green-yellow							
Versions										
- Two clamping points - Three clamping points - Four clamping points			A	8WH2 000-OCF07		1	50	044		
			A	8WH2 003-OCF07		1	50	044		
			C	8WH2 004-OCF07		1	50	044		
Accessories	Section	Page								
- Covers, for terminal sizes 1.5 to 2.5 mm² - For two clamping points - For three clamping points - For four clamping points	Accessories	12/22	C	8WH9 000-1GA00		100	50	044		
	Accessories	12/22	C	8WH9 000-2GA00		100	50	044		
	Accessories	12/22	C	8WH9 000-4GA00		100	50	044		
Cover segments, for terminal sizes 1.5 to 2.5 mm²	Accessories	12/22	A	8WH9 000-0GA00		100	10	044		

* You can order this quantity or a multiple thereof.

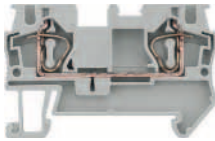
ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

8WH through-type terminals

Version	DT	Order No.	Price per PU	PU	PS*/P. unit	PG
				Unit(s)	Unit(s)	

Terminal size 4 mm²



8WH2 000-0AG00

Through-type terminals, terminal size 4 mm², two clamping points

- Terminal width 6.2 mm
- C^{UL}US
- IEC 60947-7-1
 - Rigid 0.08 - 6 mm²
 - Flexible 0.08 - 4 mm²
 - AWG 28-10
 - I = 40 A
 - U = 800 V
- EN 50019
 - Rigid 0.2 - 6 mm²
 - Flexible 0.2 - 4 mm²
 - AWG 24-10
 - I = 34/30 A
 - U = 550 V

Versions

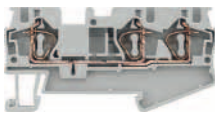
- Gray
- Blue
- Orange
- Red
- Black
- Green
- White
- Yellow

A
A
B
B
B
B
B
B8WH2 000-0AG00
8WH2 000-0AG01
8WH2 000-0AG04
8WH2 000-0AG02
8WH2 000-0AG08
8WH2 000-0AG03
8WH2 000-0AG05
8WH2 000-0AG061
1
1
1
1
1
1
150
50
50
50
50
50
50
50044
044
044
044
044
044
044
044

Accessories

- Compartment partitions, for terminal size 1.5 to 4 mm² and two clamping points
- Covers, for terminal size 4 mm² and two clamping points
- Warning covers, for terminal size 4 mm²

Section	Page
Accessories	12/22
Accessories	12/22
Accessories	12/22

C
C
B8WH9 070-0AA00
8WH9 003-1GA00
8WH9 063-5AA06100
100
10050
50
50044
044
044

8WH2 003-0AG00

Through-type terminals, terminal size 4 mm², three clamping points

- Terminal width 6.2 mm
- C^{UL}US
- IEC 60947-7-1
 - Rigid 0.08 - 6 mm²
 - Flexible 0.08 - 4 mm²
 - AWG 28-10
 - I = 40 A
 - The total current through all connected conductors must not exceed the max. load current
 - U = 800 V
- EN 50019
 - Rigid 0.2 - 6 mm²
 - Flexible 0.2 - 4 mm²
 - AWG 24-10
 - I = 34/29 A
 - The total current through all connected conductors must not exceed the max. load current
 - U = 550 V

Versions

- Gray
- Blue

A
A8WH2 003-0AG00
8WH2 003-0AG011
150
50044
044

Accessories

- Compartment partitions, for terminal size 1.5 to 4 mm² and three clamping points
- Covers, for terminal size 4 mm² and three clamping points
- Cover segments, for terminal size 4 mm²
- Warning covers, for terminal size 4 mm²

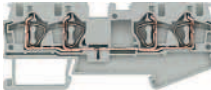
Section	Page
Accessories	12/22
Accessories	12/22
Accessories	12/22
Accessories	12/22

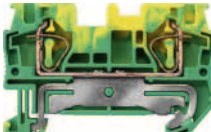
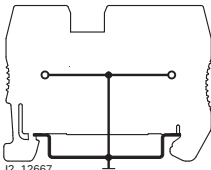
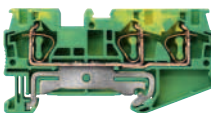
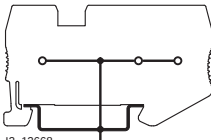
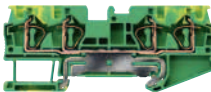
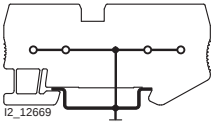
C
C
C
B8WH9 070-0GA00
8WH9 003-2GA00
8WH9 003-0GA00
8WH9 063-5AA06100
100
100
10050
50
10
50044
044
044
044

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

8WH through-type terminals

Version			DT	Order No.	Price per PU	PU	PS*/P. unit	PG	
						Unit(s)	Unit(s)		
 8WH2 004-0AG00			Through-type terminals, terminal size 4 mm², four clamping points - Terminal width 6.2 mm  - IEC 60947-7-1 - Rigid 0.08 - 6 mm² - Flexible 0.08 - 4 mm² - AWG 28-10 - I = 40 A - The total current through all connected conductors must not exceed the max. load current - U = 800 V - EN 50019 - Rigid 0.2 - 6 mm² - Flexible 0.2 - 4 mm² - AWG 24-10 - I = 34/25 A - The total current through all connected conductors must not exceed the max. load current - U = 550 V						
Versions									
- Gray - Blue			C	8WH2 004-0AG00		1	50	044	
			C	8WH2 004-0AG01		1	50	044	
Accessories		Section	Page						
Compartment partitions, for terminal size 1.5 to 4 mm² and four clamping points		Accessories	12/22	C	8WH9 070-0HA00	100	50	044	
Covers, for terminal size 4 mm² and four clamping points		Accessories	12/22	C	8WH9 003-4GA00	100	50	044	
Cover segments, for terminal size 4 mm²		Accessories	12/22	C	8WH9 003-0GA00	100	10	044	
Warning covers, for terminal size 4 mm²		Accessories	12/22	B	8WH9 063-5AA06	100	50	044	

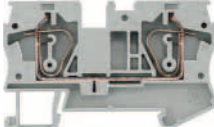
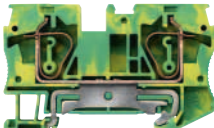
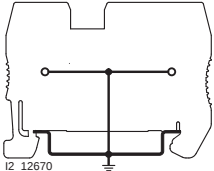
 8WH2 000-0CG07			Through-type PE terminals, terminal size 4 mm² - Terminal width 6.2 mm  - IEC 60947-7-2 - Rigid 0.08 - 6 mm² - Flexible 0.08 - 4 mm² - AWG 28-10 - EN 50019 - Rigid 0.2 - 6 mm² - Flexible 0.2 - 4 mm² - AWG 24-10 - Green-yellow						
 I2_12667 8WH2 000-0CE07									
Versions									
- Two clamping points - Three clamping points - Four clamping points			A	8WH2 000-0CG07		1	50	044	
			A	8WH2 003-0CG07		1	50	044	
			C	8WH2 004-0CG07		1	50	044	
Accessories		Section	Page						
Covers, for terminal size 4 mm²									
- For two clamping points		Accessories	12/22	C	8WH9 003-1GA00	100	50	044	
- For three clamping points		Accessories	12/22	C	8WH9 003-2GA00	100	50	044	
- For four clamping points		Accessories	12/22	C	8WH9 003-4GA00	100	50	044	
Cover segments, for terminal size 4 mm²		Accessories	12/22	C	8WH9 003-0GA00	100	10	044	
 8WH2 003-0CG07									
 I2_12668 8WH2 003-0CG07									
 8WH2 004-0CG07									
 I2_12669 8WH2 004-0CG07									

* You can order this quantity or a multiple thereof.

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

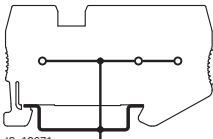
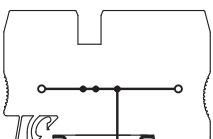
8WH through-type terminals

Version	DT	Order No.	Price per PU	PU	PS*/P. unit	PG		
				Unit(s)	Unit(s)			
Terminal size 6 mm²								
 8WH2 000-0AH00	Through-type terminals, terminal size 6 mm², two clamping points - Terminal width 8.2 mm  - IEC 60947-7-1 - Rigid 0.2 - 10 mm² - Flexible 0.2 - 6 mm² - AWG 24-8 - I = 52 A - U = 800 V - EN 50019 - Rigid 0.5 - 10 mm² - Flexible 0.5 - 6 mm² - AWG 20-8 - I = 45/36 A - U = 550 V							
Versions								
- Gray - Blue	A	8WH2 000-0AH00		1	50	044		
	A	8WH2 000-0AH01		1	50	044		
Accessories	Section	Page						
Compartment partitions, for terminal size 6 mm²	Accessories	12/22	C	8WH9 070-0DA00	100	50	044	
Covers, for terminal size 6 mm² and two clamping points	Accessories	12/22	C	8WH9 004-1GA00	100	50	044	
Warning covers, for terminal size 6 mm²	Accessories	12/22	B	8WH9 064-5AA06	100	10	044	
 8WH2 000-0CH07  8WH2 000-0CE07	Through-type PE terminals, terminal size 6 mm², two clamping points - Terminal width 8.2 mm  - IEC 60947-7-2 - Rigid 0.2 - 10 mm² - Flexible 0.2 - 6 mm² - AWG 24-8 - EN 50019 - Rigid 0.5 - 10 mm² - Flexible 0.5 - 6 mm² - AWG 20-8 - Green-yellow			A	8WH2 000-0CH07	1	50	044
Accessories			Section	Page				
Covers, for terminal size 6 mm² and two clamping points	Accessories	12/22	C	8WH9 004-1GA00	100	50	044	
 8WH2 003-0AH00	Through-type terminals, terminal size 6 mm², three clamping points - Terminal width 8.2 mm  - IEC 60947-7-1 - Rigid 0.2 - 10 mm² - Flexible 0.2 - 6 mm² - AWG 24-8 - I = 52 A - The total current through all connected conductors must not exceed the max. load current - U = 800 V - EN 50019 - Rigid 0.5 - 10 mm² - Flexible 0.5 - 6 mm² - AWG 20-8 - I = 46/36 A - The total current through all connected conductors must not exceed the max. load current - U = 550 V							
Versions								
- Gray - Blue	A	8WH2 003-0AH00		1	50	044		
	A	8WH2 003-0AH01		1	50	044		
Accessories	Section	Page						
Covers, for terminal size 6 mm² and three clamping points	Accessories	12/22	C	8WH9 004-2GA00	100	50	044	
Warning covers, for terminal size 6 mm²	Accessories	12/22	B	8WH9 064-5AA06	100	10	044	

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

8WH through-type terminals

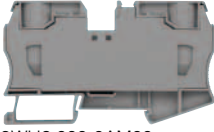
Version		DT	Order No.	Price per PU	PU	PS*/ P. unit	PG								
					Unit(s)	Unit(s)									
 8WH2 003-0CH07	Through-type PE terminals, terminal size 6 mm², three clamping points - Terminal width 8.2 mm  - IEC 60947-7-2 - Rigid 0.2 - 10 mm² - Flexible 0.2 - 6 mm² - AWG 24-8 - EN 50019 - Rigid 0.5 - 10 mm² - Flexible 0.5 - 6 mm² - AWG 20-8 - Green-yellow		A	8WH2 003-0CH07	1	50	044								
	 I2_12671 8WH2 003-0CE07	<table><tr><th>Accessories</th><th>Section</th><th>Page</th></tr><tr><td>Covers, for terminal size 6 mm² and three clamping points</td><td>Accessories</td><td>12/22</td></tr></table>	Accessories	Section	Page	Covers, for terminal size 6 mm² and three clamping points	Accessories	12/22	C	8WH9 004-2GA00	100	50	044		
Accessories	Section	Page													
Covers, for terminal size 6 mm² and three clamping points	Accessories	12/22													
Terminal size 10 mm²															
 8WH2 000-0AJ00	Through-type terminals, terminal size 10 mm² - Terminal width 10.2 mm  - IEC 60947-7-1 - Rigid 1.5 - 16 mm² - Flexible 1.5 - 10 mm² - AWG 24-6 - I = 65 A - U = 800 V - EN 50019 - Rigid 1.5 - 16 mm² - Flexible 1.5 - 10 mm² - AWG 16-6 - I = 50/63 A - U = 550 V														
	<table><tr><th>Versions</th><th></th></tr><tr><td>Gray</td><td>A</td></tr><tr><td>Blue</td><td>A</td></tr></table>	Versions		Gray	A	Blue	A		8WH2 000-0AJ00 8WH2 000-0AJ01	1 1	50 50	044 044			
Versions															
Gray	A														
Blue	A														
	<table><tr><th>Accessories</th><th>Section</th><th>Page</th></tr><tr><td>Covers, for terminal size 10 mm²</td><td>Accessories</td><td>12/22</td></tr><tr><td>Warning covers, for terminal size 10 mm²</td><td>Accessories</td><td>12/22</td></tr></table>	Accessories	Section	Page	Covers, for terminal size 10 mm²	Accessories	12/22	Warning covers, for terminal size 10 mm²	Accessories	12/22	C B	8WH9 005-1GA00 8WH9 065-5AA06	100 100	50 25	044 044
Accessories	Section	Page													
Covers, for terminal size 10 mm²	Accessories	12/22													
Warning covers, for terminal size 10 mm²	Accessories	12/22													
 8WH2 000-0CJ07	Through-type PE terminals, terminal size 10 mm² - Terminal width 10.2 mm  - IEC 60947-7-2 - Rigid 1.5 - 16 mm² - Flexible 1.5 - 10 mm² - AWG 24-6 - I = 65 A - EN 50019 - Rigid 1.5 - 16 mm² - Flexible 1.5 - 10 mm² - AWG 16-6 - Green-yellow		A	8WH2 000-0CJ07	1	50	044								
	 I2_12672 8WH2 000-0CJ07	<table><tr><th>Accessories</th><th>Section</th><th>Page</th></tr><tr><td>Covers, for terminal size 10 mm²</td><td>Accessories</td><td>12/22</td></tr></table>	Accessories	Section	Page	Covers, for terminal size 10 mm²	Accessories	12/22	C	8WH9 005-1GA00	100	50	044		
Accessories	Section	Page													
Covers, for terminal size 10 mm²	Accessories	12/22													

* You can order this quantity or a multiple thereof.

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

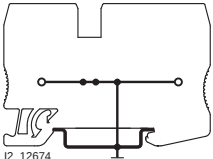
8WH through-type terminals

Version			DT	Order No.	Price per PU	PU	PS*/ P. unit	PG	
						Unit(s)	Unit(s)		
Terminal size 16 mm²									
									
8WH2 000-0AK00									
Through-type terminals, terminal size 16 mm²									
- Terminal width 12 mm  - IEC 60947-7-1 - Rigid 1.5 - 25 mm² - Flexible 1.5 - 16 mm² - AWG 24-4 - I = 90 A - U = 800 V - EN 50019 - Rigid 1.5 - 25 mm² - Flexible 1.5 - 16 mm² - AWG 16-4 - I = 65/82 A - U = 550 V									
Versions									
- Gray - Blue			C	8WH2 000-0AK00		1	50	044	
			C	8WH2 000-0AK01		1	50	044	
Accessories									
Accessories			Section	Page					
Covers, for terminal size 16 mm²			Accessories	12/22	C	8WH9 006-1GA00	100	50	044
Warning covers, for terminal size 16 mm²			Accessories	12/22	B	8WH9 066-5AA06	100	25	044
Terminal size 16 mm²									
									
8WH2 000-0CK07									
Through-type PE terminals, terminal size 16 mm²									
- Terminal width 12 mm  - IEC 60947-7-2 - Rigid 1.5 - 25 mm² - Flexible 1.5 - 16 mm² - AWG 24-4 - I = 90 A - EN 50019 - Rigid 1.5 - 25 mm² - Flexible 1.5 - 16 mm² - AWG 16-4 - Green-yellow									
Accessories									Section
Accessories			Section	Page					
Covers, for terminal size 16 mm²			Accessories	12/22	C	8WH9 006-1GA00	100	50	044
Terminal size 35 mm²									
									
8WH2 000-0AM00									
Through-type terminals, terminal size 35 mm²									
- Terminal width 16 mm  - IEC 60947-7-1 - Rigid 2.5 - 35 mm² - Flexible 2.5 - 35 mm² - AWG 14-2 - I = 125 A - U = 800 V - EN 50019 - Rigid 2.5 - 35 mm² - Flexible 2.5 - 35 mm² - AWG 14-2 - I = 108 A - U = 750 V - Enclosed at both ends									
Versions									
- Gray,  - Blue			C	8WH2 000-0AM00		1	10	044	
			C	8WH2 000-0AM01		1	10	044	

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

8WH through-type terminals

	Version	DT	Order No.	Price per PU	PU	PS*/ P. unit	PG
					Unit(s)	Unit(s)	
 8WH2 000-0CM07	Through-type PE terminals, terminal size 35 mm² - Terminal width 16 mm - UL, CE, CUS, C - IEC 60947-7-2 - Rigid 2.5 - 35 mm² - Flexible 2.5 - 35 mm² - AWG 14-2 - I = 125 A - EN 50019 - Rigid 2.5 - 35 mm² - Flexible 2.5 - 35 mm² - AWG 14-2 - Enclosed at both ends - Green-yellow	C	8WH2 000-0CM07		1	10	044
 I2_12674 8WH2 000-0CM07							
Accessories							
 8WH9 070-0AA00	Compartment partitions - For visual and electrical separation of terminal groups 2 mm thick						
	Versions						
	For terminal sizes 1.5 to 4 mm² and two clamping points	C	8WH9 070-0AA00		100	50	044
	For terminal sizes 1.5 to 4 mm² and three clamping points	C	8WH9 070-0GA00		100	50	044
	For terminal size 1.5 to 4 mm² and four clamping points	C	8WH9 070-0HA00		100	50	044
	For terminal size 6 mm²	C	8WH9 070-0DA00		100	50	044
	Covers Gray						
	Versions						
	For terminal sizes 1.5 to 2.5 mm² and two clamping points	C	8WH9 000-1GA00		100	50	044
	For terminal sizes 1.5 to 2.5 mm² and three clamping points	C	8WH9 000-2GA00		100	50	044
	For terminal size 1.5 to 2.5 mm² and four clamping points	C	8WH9 000-4GA00		100	50	044
	For terminal size 4 mm² and two clamping points	C	8WH9 003-1GA00		100	50	044
	For terminal size 4 mm² and three clamping points	C	8WH9 003-2GA00		100	50	044
	For terminal size 4 mm² and four clamping points	C	8WH9 003-4GA00		100	50	044
	For terminal size 6 mm² and two clamping points	C	8WH9 004-1GA00		100	50	044
	For terminal size 6 mm² and three clamping points	C	8WH9 004-2GA00		100	50	044
	For terminal size 10 mm²	C	8WH9 005-1GA00		100	50	044
	For terminal size 16 mm²	C	8WH9 006-1GA00		100	50	044
 8WH9 000-0GA00	Cover segments - Gray - For covering multi-wire terminals when mounting two-wire terminals side-by-side						
	Versions						
	For terminal sizes 1.5 to 2.5 mm²	A	8WH9 000-0GA00		100	10	044
	For terminal size 4 mm²	C	8WH9 003-0GA00		100	10	044
 8WH9 061-5AA06	Warning covers For the operating shafts of 8WH through-type terminals						
	Versions						
	For terminal size 1.5 mm²	B	8WH9 061-5AA06		100	50	044
	For terminal size 2.5 mm²	B	8WH9 060-5AA06		100	50	044
	For terminal size 4 mm²	B	8WH9 063-5AA06		100	50	044
	For terminal size 6 mm²	B	8WH9 064-5AA06		100	10	044
	For terminal size 10 mm²	B	8WH9 065-5AA06		100	25	044
	For terminal size 16 mm²	B	8WH9 066-5AA06		100	25	044
	For terminal size 35 mm²	B	8WH9 067-5AA06		100	10	044

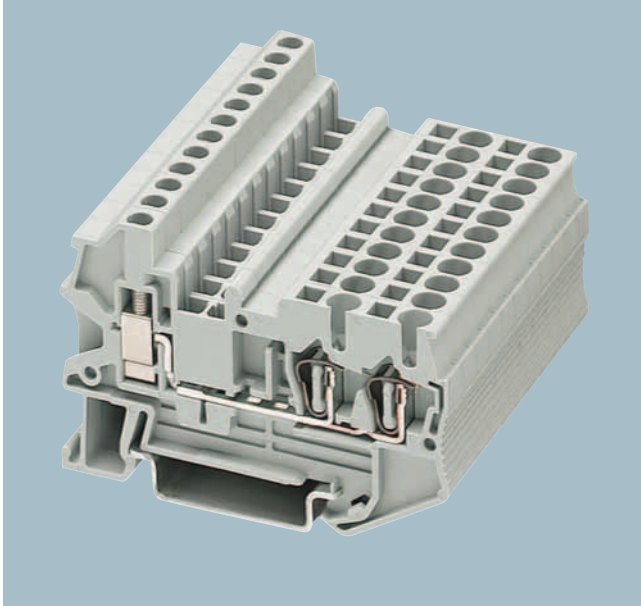
* You can order this quantity or a multiple thereof.

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

8WH hybrid through-type terminals

Overview



The terminal connection compartment, on the tension spring side as well as the screw side, enables connection to a nominal cross-section of 2.5 mm² or 4 mm², with or without end sleeves. The advantages of the different connection types result from the fact that the spring-loaded terminal of the hybrid through-type terminal is used inside the control cabinet and the universal screw connection is used at the end user's side. A PE terminal with the same contour is available for the three-conductor terminal. Contact is made by simply snapping the terminal onto the support rail. This meets the requirements of IEC 60947-7-2:

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

Technical specifications

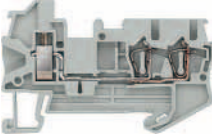
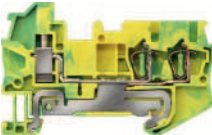
	8WH2 103-2BF00 8WH2 103-2BF01	8WH2 103-3BF07	8WH2 103-2BG00 8WH2 103-2BG01	8WH2 103-3BG07
Dimensions				
• Width / length / width of cover in mm	5.2 / 65.3 / 2.2		6.2 / 74.4 / 2.2	
• Height (NS 35/7.5 / NS 35/15) in mm	42.8 / 50.3			
Technical specifications acc. to IEC/DIN VDE				
• Max. load current in A / cross-section in mm²	28 / 4	--	32 / 6	--
• Rated impulse withstand voltage in kV / pollution degree	8 / 3			
• Overvoltage category / insulating group	III / I			
Connection capacities				
• Flexible with end sleeve with plastic sleeve in mm²	0.25 ... 2.5		0.25 ... 4	
• Flexible with end sleeve without plastic sleeve in mm²	0.25 ... 2.5		0.25 ... 4	
• Flexible with two-wire connection end sleeve with plastic sleeve in mm²	0.5 - 1			
Stripped length in mm	10			
Plug gage (IEC 60947-1)	A3		A4	
Connection capacity of screw connection				
• Flexible with end sleeves with/without plastic sleeve in mm²	0.25 ... 2.5 / 0.25 ... 2.5		0.25 ... 4 / 0.25 ... 4	
Multi-conductor connection (two conductors of same cross-section)				
• Rigid/flexible in mm²	0.14 ... 1.5 / 0.14 ... 1.5			
• Flexible with end sleeve without plastic sleeve in mm²	0.25 ... 1.5			
• Flexible with two-wire connection end sleeve with plastic sleeve in mm²	0.5 ... 1.5		0.5 ... 2.5	
Stripped length in mm	9			
Plug gage (IEC 60947-1)	A3		A4	
Insulation type				
• Flammability class acc. to UL 94	V0			
Approval data (UL/CUL and CSA)				
• Rated voltage / current / cable sizes				
- UL/CUL: in V/A / AWG	Applied for			
- CSA: in V/A / AWG	Applied for			
Support rails/protective conductor busbars	--	See section <i>Support rails</i>	--	See section <i>Support rails</i>

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

8WH hybrid through-type terminals

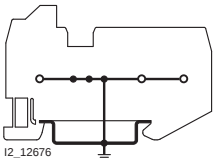
Selection and ordering data

Version	DT	Order No.	Price per PU	PU Unit(s)	PS*/ P. unit Unit(s)	PG
Terminal size 2.5 mm²						
 8WH2 103-2BF00	Hybrid through-type terminals, terminal size 2.5 mm²					
	- Terminal width 5.2 mm - IEC 60947-7-1 - Spring - Rigid 0.08 - 4 mm² - Flexible 0.08 - 2.5 mm² - AWG 28-12 - I = 28 A - The total current through all connected conductors must not exceed the max. load current - U = 800 V - Screw - Rigid 0.14 - 4 mm² - Flexible 0.14 - 2.5 mm² - AWG 26-14 - I = 28 A - U = 800 V					
	Versions					
	- Gray C - Blue C					
	Accessories					
Covers, for terminal size 2.5 mm ² and three clamping points		Accessories	12/25	C	8WH9 000-2HA00	100 50 044
 8WH2 103-3BF07	Hybrid through-type PE terminals, terminal size 2.5 mm²					
	- Terminal width 5.2 mm - IEC 60947-7-2 - Spring - Rigid 0.08 - 4 mm² - Flexible 0.08 - 2.5 mm² - AWG 28-12 - Screw - Rigid 0.14 - 4 mm² - Flexible 0.14 - 2.5 mm² - AWG 26-14					
	Versions					
	- Gray C - Blue C					
	Accessories					
Covers, for terminal size 2.5 mm ² and three clamping points		Accessories	12/25	C	8WH9 000-2HA00	100 50 044
Terminal size 4 mm²						
 8WH2 103-2BG00	Hybrid through-type terminals, terminal size 4 mm²					
	- Terminal width 6.2 mm - IEC 60947-7-1 - Spring - Rigid 0.08 - 6 mm² - Flexible 0.08 - 4 mm² - AWG 28-10 - I = 32 A - The total current through all connected conductors must not exceed the max. load current - U = 800 V - Screw - Rigid 0.14 - 6 mm² - Flexible 0.14 - 4 mm² - AWG 26-10 - I = 32 A - U = 800 V					
	Versions					
	- Gray C - Blue C					
	Accessories					
Covers, for terminal size 4 mm ² and three clamping points		Accessories	12/25	C	8WH9 003-2HA00	100 50 044

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

8WH hybrid through-type terminals

Version	DT	Order No.	Price per PU	PU	PS*/ P. unit	PG
				Unit(s)	Unit(s)	
 8WH2 103-3BG07  I2_12676 8WH2 103-3BG07	Hybrid through-type PE terminals, terminal size 4 mm² • Terminal width 6.2 mm • IEC 60947-7-2 • Spring - Rigid 0.08 - 6 mm² - Flexible 0.08 - 4 mm² - AWG 28-10 • Screw - Rigid 0.14 - 6 mm² - Flexible 0.14 - 4 mm² - AWG 26-10	C	8WH2 103-3BG07	1	50	044
Accessories Covers, for terminal size 4 mm² and three clamping points	Section Accessories	Page 12/25				
	C	8WH9 003-2HA00		100	50	044

Accessories

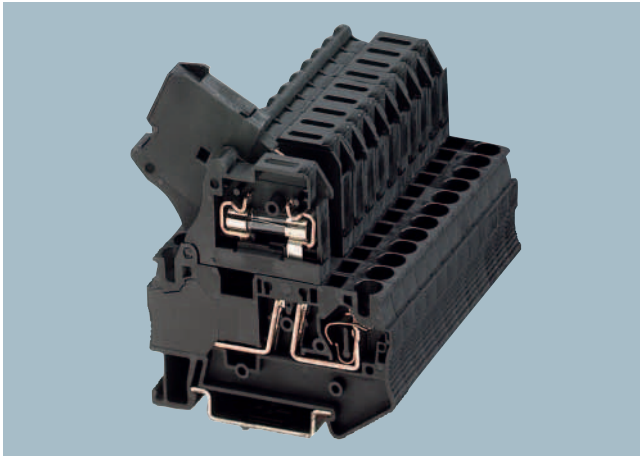
 8WH9 000-2HA00	Covers					
	Gray					
	Versions					
	• For terminal size 2.5 mm ² and three clamping points	C	8WH9 000-2HA00	100	50	044
	• For terminal size 4 mm ² and three clamping points	C	8WH9 003-2HA00	100	50	044

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

8WH fuse terminals

Overview



Fuse terminals for blade-type fuses

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

Fuse terminals for G fuse links

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

The full-length bridge slot enables uninterrupted linking between the through-type terminals and the fuse terminals.

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

Technical specifications

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

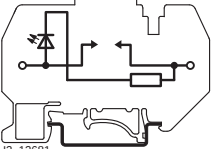
¹⁾ Please note: G fuse holders must be selected according to the max. power loss (heat dissipation) of the G fuse links. Depending on the application and installation method, the heating conditions must be tested in enclosed fuse holders. Higher ambient temperatures add to the load of the fuse links, so that the offset of the rated current must also be taken into account. When selecting G fuse links, make sure that they do not exceed the specified maximum power loss. For specification details, contact the fuse manufacturer.

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

8WH fuse terminals

Selection and ordering data

Version	DT	Order No.	Price per PU	PU	PS*/P. unit	PG
				Unit(s)	Unit(s)	
Terminal size 4 mm²						
 8WH2 000-1AG08						
Fuse terminals, terminal size 4 mm², for blade-type fuses according to ISO/DIS8820/DIN72581-3 - Terminal width 8.2 mm •  US • Supply data - Rigid 0.08 - 6 mm² - Flexible 0.08 - 4 mm² - AWG 28-10 - $I = 30$ A - $U = 400$ V • Enclosed at both ends						
 8WH2 000-1BG28						
 8WH2 000-1BG28						
Fuse terminals, terminal size 4 mm², for G fuse links 5 x 20 mm - Terminal width 6.2 mm •  US • IEC 60947-7-3 • With fuse - Rigid 0.08 - 6 mm² - Flexible 0.08 - 4 mm² - AWG 28-10 - $I_{max} = 6.3$ A, only short-circuit protection Single 4 W, Group 2.5 W - $U = 250$ V, overload protection Single 4 W, Group 1.6 W • As isolating terminal - Rigid 0.08 - 6 mm² - Flexible 0.08 - 4 mm² - AWG 28-10 - $I = 6.3$ A - $U = 250$ V • Enclosed at both ends						
 8WH2 000-1GG08						
 8WH2 000-1JG38						
Versions						
• Without LED display	C	8WH2 000-1GG08		1	50	044
• LED display 15 to 30 V	C	8WH2 000-1JG38		1	50	044
• LED display 30 to 60 V	C	8WH2 000-1JG68		1	50	044
• LED display 110 to 250 V	C	8WH2 000-1MG08		1	50	044
Accessories						
Compartiment partitions, for terminal sizes 1.5 and 4 mm ² and two clamping points	Accessories	12/28	C	8WH9 070-0AA00	100	50 044

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

8WH fuse terminals

	Version	DT	Order No.	Price per PU	PU Unit(s)	PS*/ P. unit Unit(s)	PG	
 8WH2 000-1HG08	Fuse terminals, terminal size 4 mm², for G fuse links 6.3 x 32 mm (inch fuses)							
	- Terminal width 8.2 mm  US - IEC 60947-7-3 - With fuse - Rigid 0.08 - 6 mm² - Flexible 0.08 - 4 mm² - AWG 28-10 - I = 10 A - U = 400 V - Current and voltage are determined by the fitted fuse or the selected LED display - As isolating terminal - Rigid 0.08 - 6 mm² - Flexible 0.08 - 4 mm² - AWG 28-10 - I = 10 A - U = 400 V - Enclosed at both ends							
	Versions							
	- Without LED display - With LED display 100 to 250 V			C	8WH2 000-1HG08	1	50	044
				C	8WH2 000-1RG08	1	50	044
Accessories		Section	Page					
Compartment partitions, for terminal sizes 1.5 and 4 mm² and three clamping points		Accessories	12/28	C	8WH9 070-0KA00	100	50	044

Accessories

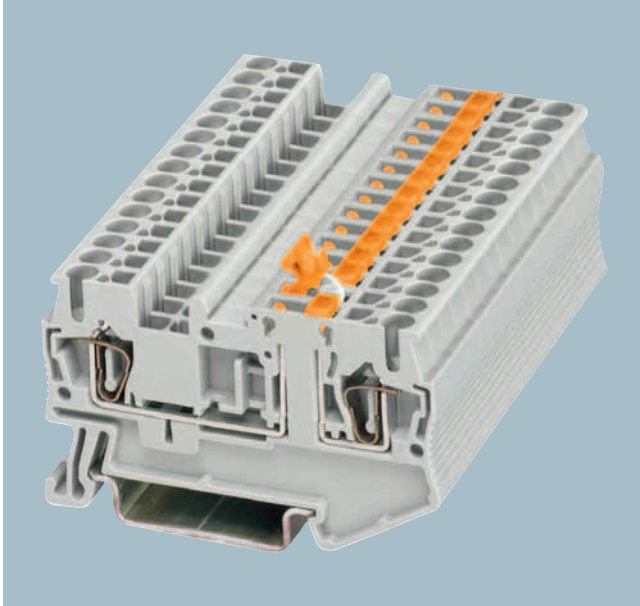
 8WH9 070-0AA00	Compartment partitions, for terminal sizes 1.5 and 4 mm²						
	Versions						
	• Two clamping points	C	8WH9 070-0AA00		100	50	044
	• Three clamping points	C	8WH9 070-0KA00		100	50	044

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

8WH isolating blade terminals

Overview



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

Key features of these isolating blade terminals with a nominal cross-section of 2.5 mm² are their narrow width of only 5.2 mm and their high current carrying capacity of 16 A. In addition, the terminals provide a test pick-off parallel to the isolating point for 2.3-mm Ø test plugs. Potential distributors can be conveniently built with connecting combs.

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

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

Technical specifications

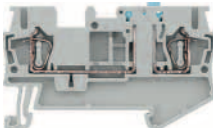
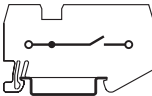
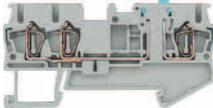
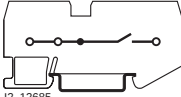
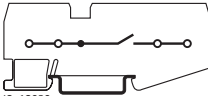
	8WH2 000-6CF00	8WH2 500-6CF00	8WH2 003-6CF00	8WH2 004-6CF00 8WH2 004-6CF01	8WH2 000-6CG00
Dimensions					
• Width / length / width of cover in mm	5.2 / 60.5 / 2.2	5.2 / 51 / 2.2	5.2 / 72 / 2.2	5.2 / 84 / 2.2	6.2 / 61.5 / --
• Height (NS 35/7.5 / NS 35/15) in mm	36.5 / 44	43 / 50.5	36.5 / 44		
Technical specifications acc. to IEC/DIN VDE					
• Max. load current in A / cross-section in mm ²	16 / 4				16 / 6
• Maximum // rated data in A / mm ²	--				
• Rated impulse withstand voltage in kV / pollution degree	6 / 3				
• Overvoltage category / insulating group	III / I				
Connection capacities					
• Flexible with end sleeve with plastic sleeve in mm ²	0.25... 2.5				0.25 ... 4
• Flexible with end sleeve without plastic sleeve in mm ²	0.25 ... 2.5				0.25 ... 4
• Flexible with two-wire connection end sleeve with plastic sleeve in mm ²	0.5				
Stripped length in mm	10				
Plug gage (IEC 60947-1)	A4	A3	A4	A3	
Insulation type	PA				
• Flammability class acc. to UL 94	V0				
Approval data (UL/CUL and CSA)					
• Rated voltage / current / cable sizes					
- UL/CUL: in V/A / AWG	600 / 16 / 26-12	600 / 16 / 24-12	600 / 16 / 26-12		300 / 6.3 / 24-10
- CSA: in V/A / AWG	--				

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

8WH isolating blade terminals

Selection and ordering data

Version	DT	Order No.	Price per PU	PU	PS*/P. unit	PG																							
				Unit(s)	Unit(s)																								
Terminal size 2.5 mm²																													
	Isolating blade terminals, terminal size 2.5 mm² - Terminal width 5.2 mm  - IEC 60947-7-1 - Rigid 0.08 - 4 mm² - Flexible 0.08 - 2.5 mm² - AWG 28-12 - I = 16 A - U = 400 V - Screw (only for 3 and 4 clamping points) - Rigid 0.14 - 4 mm² - Flexible 0.14 - 2.5 mm² - AWG 26-14																												
 I2_12684																													
8WH2 000-6CF00																													
																													
8WH2 003-6CF00																													
 I2_12685																													
8WH2 003-6CF00																													
																													
8WH2 004-6CF00																													
 I2_12686																													
8WH2 004-6CF00 / -6CF01																													
																													
8WH2 000-6CG00																													
Isolating blade terminals, terminal size 4 mm², two clamping points - Gray - Terminal width 6.2 mm  - IEC 60947-7-1 - Rigid 0.08 - 6 mm² - Flexible 0.08 - 4 mm² - AWG 28-10 - I = 16 A - U = 400 V - Enclosed at both ends																													
<table><tr><th>Accessories</th><th>Section</th><th>Page</th><th></th><th></th><th></th><th></th></tr><tr><td>• Compartment partitions, for terminal sizes 1.5 to 4 mm² and two clamping points</td><td>Accessories</td><td>12/31</td><td>C</td><td>8WH9 070-0AA00</td><td>100</td><td>50</td><td>044</td></tr><tr><td>• Lateral mounting test plugs, for terminal width 6.2 mm</td><td>Accessories</td><td>12/31</td><td>C</td><td>8WH9 010-0FB02</td><td>1</td><td>10</td><td>044</td></tr></table>							Accessories	Section	Page					• Compartment partitions, for terminal sizes 1.5 to 4 mm² and two clamping points	Accessories	12/31	C	8WH9 070-0AA00	100	50	044	• Lateral mounting test plugs, for terminal width 6.2 mm	Accessories	12/31	C	8WH9 010-0FB02	1	10	044
Accessories	Section	Page																											
• Compartment partitions, for terminal sizes 1.5 to 4 mm² and two clamping points	Accessories	12/31	C	8WH9 070-0AA00	100	50	044																						
• Lateral mounting test plugs, for terminal width 6.2 mm	Accessories	12/31	C	8WH9 010-0FB02	1	10	044																						

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

8WH isolating blade terminals

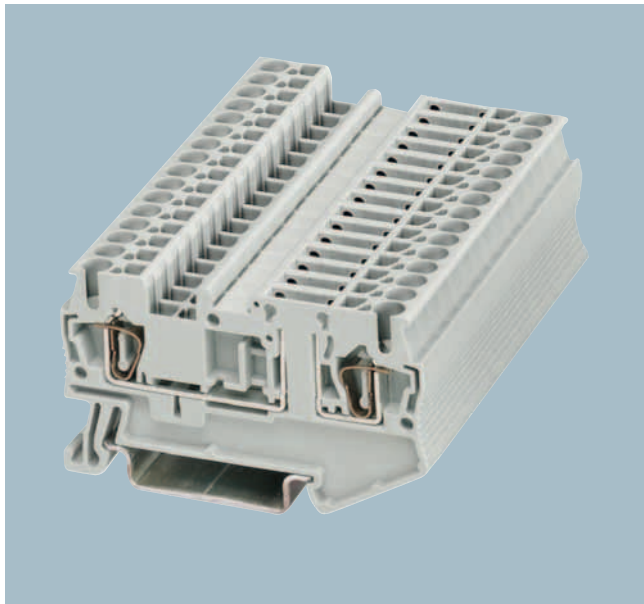
Version	DT	Order No.	Price per PU	PU Unit(s)	PS*/ P. unit Unit(s)	PG
Accessories						
Compartment partitions, for terminal sizes 1.5 to 4 mm²						
Versions						
• Two clamping points	C	8WH9 070-0AA00		100	50	044
• Three clamping points	C	8WH9 070-0GA00		100	50	044
• Four clamping points	C	8WH9 070-0HA00		100	50	044
8WH9 070-0AA00						
Lateral mounting test plugs						
Versions						
• For terminal width 5.2 mm	C	8WH9 010-0EB02		1	10	044
• For terminal width 6.2 mm	C	8WH9 010-0FB02		1	10	044
Covers, for terminal sizes 1.5 to 2.5 mm²						
Versions						
• For two clamping points	C	8WH9 000-2GA00		100	50	044
• For three clamping points	C	8WH9 000-4GA00		100	50	044
• For four clamping points	C	8WH9 000-5GA00		100	50	044
Cover segments, for terminal size 2.5 mm² and three or four clamping points	A	8WH9 000-0GA00		100	10	044
8WH9 000-0GA00						

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

8WH isolating terminals

Overview



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

There is a test option for 2.3 mm Ø test plugs on both sides of the isolating point.

The slim 6.2 mm isolating terminal with terminal size 4 mm² is a base terminal and is used for holding:

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

Technical specifications

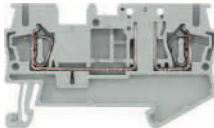
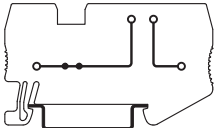
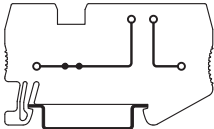
	8WH2 000-6AF00	8WH2 500-6AF00	8WH2 003-6AF00	8WH2 004-6AF00	8WH2 000-6AG00
Dimensions					
• Width / length / width of cover in mm	5.2 / 60.5 / 2.2	5.2 / 51 / 2.2	5.2 / 72 / 2.2	5.5 / 84 / 2.2	6.2 / 61.5 / --
• Height (NS 35/7.5 / NS 35/15) in mm	36.5 / 44	43 / 50.5	36.5 / 44		
Technical specifications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

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

8WH isolating terminals

Selection and ordering data

Version	DT	Order No.	Price per PU	PU	PS*/P. unit	PG																																																														
				Unit(s)	Unit(s)																																																															
Terminal size 2.5 mm²																																																																				
 8WH2 000-6AF00	Isolating terminals, terminal size 2.5 mm² • Gray • Terminal width 5.2 mm •  US • IEC 60947-7-1 - Rigid 0.08 - 4 mm² - Flexible 0.08 - 2.5 mm² - AWG 28-12 - Current and voltage are determined by the fitted plug - <i>I</i> = 16 A - <i>U</i> = 400 V																																																																			
 I2_12682 8WH2 000-6AF00	<table><tr><th>Versions</th><td> • Two clamping points • Three clamping points • Four clamping points </td><td>C</td><td>8WH2 000-6AF00</td><td>1</td><td>50</td><td>044</td></tr><tr><td></td><td></td><td>C</td><td>8WH2 003-6AF00</td><td>1</td><td>50</td><td>044</td></tr><tr><td></td><td></td><td>C</td><td>8WH2 004-6AF00</td><td>1</td><td>50</td><td>044</td></tr></table>						Versions	• Two clamping points • Three clamping points • Four clamping points	C	8WH2 000-6AF00	1	50	044			C	8WH2 003-6AF00	1	50	044			C	8WH2 004-6AF00	1	50	044																																									
Versions	• Two clamping points • Three clamping points • Four clamping points	C	8WH2 000-6AF00	1	50	044																																																														
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<table><tr><th>Accessories</th><th>Section</th><th>Page</th></tr><tr><td>• <i>Compartment partitions, for terminal size 2.5 mm²</i> - For three clamping points - For four clamping points </td><td>Accessories</td><td>12/34</td></tr><tr><td>• <i>Covers, for terminal sizes 1.5 to 2.5 mm²</i> - For two clamping points - For three clamping points - For four clamping points </td><td>Accessories</td><td>12/34</td></tr><tr><td>• <i>Cover segments, for terminal sizes 1.5 and 2.5 mm² and three or four clamping points</i></td><td>Accessories</td><td>12/34</td></tr><tr><td>• <i>Plug-in zone connectors</i> - Isolating plugs - Through-type connectors - Fused connectors, without LED display - Component connectors </td><td>Accessories</td><td>12/34</td></tr></table>		Accessories	Section	Page	• <i>Compartment partitions, for terminal size 2.5 mm²</i> - For three clamping points - For four clamping points	Accessories	12/34	• <i>Covers, for terminal sizes 1.5 to 2.5 mm²</i> - For two clamping points - For three clamping points - For four clamping points	Accessories	12/34	• <i>Cover segments, for terminal sizes 1.5 and 2.5 mm² and three or four clamping points</i>	Accessories	12/34	• <i>Plug-in zone connectors</i> - Isolating plugs - Through-type connectors - Fused connectors, without LED display - Component connectors	Accessories	12/34	<table><tr><td>C</td><td>8WH9 070-0GA00</td><td>100</td><td>50</td><td>044</td></tr><tr><td>C</td><td>8WH9 070-0HA00</td><td>100</td><td>50</td><td>044</td></tr><tr><td>C</td><td>8WH9 000-2GA00</td><td>100</td><td>50</td><td>044</td></tr><tr><td>C</td><td>8WH9 000-4GA00</td><td>100</td><td>50</td><td>044</td></tr><tr><td>C</td><td>8WH9 000-5GA00</td><td>100</td><td>50</td><td>044</td></tr><tr><td>A</td><td>8WH9 000-0GA00</td><td>100</td><td>10</td><td>044</td></tr><tr><td>C</td><td>8WH9 040-0DB04</td><td>1</td><td>50</td><td>044</td></tr><tr><td>C</td><td>8WH9 020-8AB00</td><td>1</td><td>50</td><td>044</td></tr><tr><td>C</td><td>8WH9 040-3DB08</td><td>1</td><td>10</td><td>044</td></tr><tr><td>C</td><td>8WH9 040-0BB00</td><td>1</td><td>10</td><td>044</td></tr></table>		C	8WH9 070-0GA00	100	50	044	C	8WH9 070-0HA00	100	50	044	C	8WH9 000-2GA00	100	50	044	C	8WH9 000-4GA00	100	50	044	C	8WH9 000-5GA00	100	50	044	A	8WH9 000-0GA00	100	10	044	C	8WH9 040-0DB04	1	50	044	C	8WH9 020-8AB00	1	50	044	C	8WH9 040-3DB08	1	10	044	C	8WH9 040-0BB00	1	10	044
Accessories	Section	Page																																																																		
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ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

8WH isolating terminals

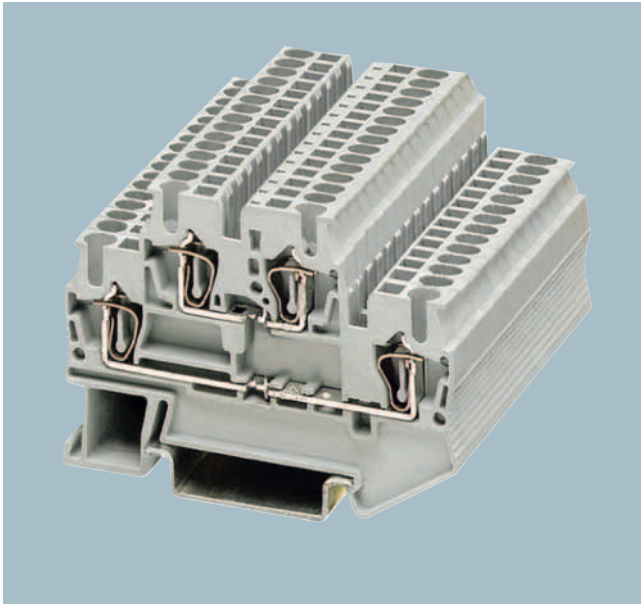
Version		DT	Order No.	Price per PU	PU	PS*/P. unit	PG
					Unit(s)	Unit(s)	
Accessories							
Compartment partitions							
Versions							
• For terminal size 2.5 mm ²		C	8WH9 070-0GA00		100	50	044
- For three clamping points		C	8WH9 070-0HA00		100	50	044
• For terminal size 4 mm ²		C	8WH9 070-0AA00		100	50	044
- For two clamping points							
Covers							
Gray							
Versions							
• For terminal sizes 1.5 to 2.5 mm ² and two clamping points		C	8WH9 000-2GA00		100	50	044
• For terminal size 2.5 mm ² and three clamping points		C	8WH9 000-4GA00		100	50	044
• For terminal size 2.5 mm ² and four clamping points		C	8WH9 000-5GA00		100	50	044
Cover segments, for terminal sizes 1.5 and 2.5 mm² and three or four clamping points							
Gray							
		A	8WH9 000-0GA00		100	10	044
8WH9 000-0GA00							
Plug-in zone connectors							
Versions							
• Isolating plugs		C	8WH9 040-0DB04		1	50	044
- Orange							
• Through-type connectors		C	8WH9 020-8AB00		1	50	044
- Gray							
- I _{max} : 16 A							
• Fused connectors, without LED display		C	8WH9 040-3DB08		1	10	044
- Black							
- I _{max} : 6.3 A							
Note							
- G fuse holders must be selected according to the max. power loss (heat dissipation) of the G fuse links. Depending on the application and installation method, the heating conditions must be tested in enclosed fuse holders.							
- Higher ambient temperatures add to the load of the fuse links. In this case, take the offset of the rated current into account.							
• Component connectors		C	8WH9 040-0BB00		1	10	044
- I _{max} : 6 A, depending on the power loss of the components, max. 1 W with single arrangement							
- Facility for inscription with ZBF 5							
							
8WH9 040-0DB04							
							
8WH9 020-8AB00							
							
8WH9 040-3DB08							
							
8WH9 040-0BB00							

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

8WH two-tier terminals

Overview



Standard two-tier terminals

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

PE/ground conductor function

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

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

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

PE/L and PE/N types

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

Technical specifications

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

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

8WH two-tier terminals

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

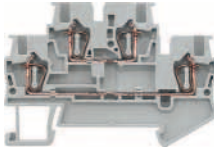
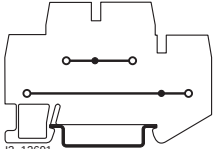
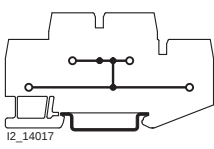
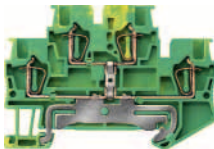
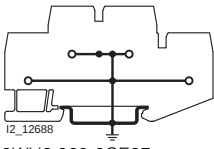
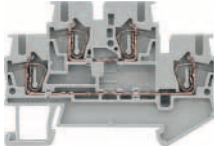
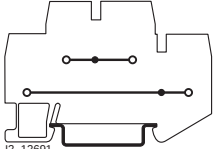
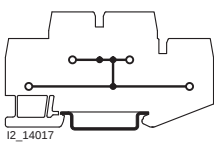
	8WH2 020-4CF00	8WH2 020-0AG00 8WH2 020-0AG01 8WH2 025-0AG00	8WH2 020-0CG07
Dimensions			
• Width / length / width of cover in mm	5.2 / 67.5 / 2.2	6.2 / 83.5 / 2.2	6.2 / 83.5 / 2.2
• Height (NS 35/7.5 / NS 35/15) in mm	47.5 / 55		
Technical specifications acc. to IEC/DIN VDE			
• Max. load current in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

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

8WH two-tier terminals

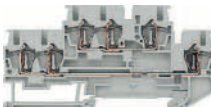
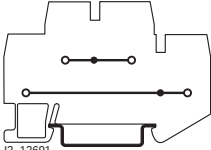
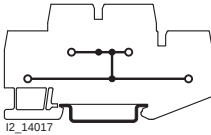
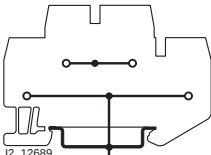
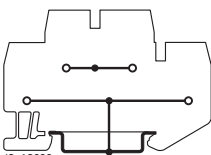
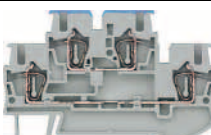
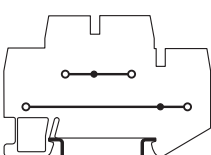
Selection and ordering data

Version	DT	Order No.	Price per PU	PU	PS*/ P. unit	PG																																															
				Unit(s)	Unit(s)																																																
Terminal size 1.5 mm²																																																					
 8WH2 020-0AE00  I2_12691 8WH2 020-0AE00  I2_14017 8WH2 025-0AE00	Two-tier terminals, terminal size 1.5 mm² - Terminal width 4.2 mm  US:  - IEC 60947-7-1 - Rigid 0.08 - 1.5 mm² - Flexible 0.08 - 1.5 mm² - AWG 28-16 - I = 17.5 A - The total current through all connected conductors must not exceed the max. load current - U = 500 V - EN 50019 - Rigid 0.14 - 1.5 mm² - Flexible 0.14 - 1.5 mm² - AWG 28-16 - I = 17.5 A - U = 420 V Versions <table><tr><td> - Gray - Without equipotential bonding, 2-pole  - With equipotential bonding, 1-pole - Blue, 2-pole </td><td>C</td><td>8WH2 020-0AE00</td><td>1</td><td>50</td><td>044</td></tr><tr><td></td><td>C</td><td>8WH2 025-0AE00</td><td>1</td><td>50</td><td>044</td></tr><tr><td></td><td>C</td><td>8WH2 020-0AE01</td><td>1</td><td>50</td><td>044</td></tr></table> Accessories <table><tr><th>Accessories</th><th>Section</th><th>Page</th><td></td><td></td><td></td><td></td></tr><tr><td> - Compartment partitions, for terminal sizes 1.5 to 4 mm² </td><td>Accessories</td><td>12/40</td><td>C</td><td>8WH9 070-0BA00</td><td>100</td><td>50</td><td>044</td></tr><tr><td> - Covers, for terminal sizes 1.5 to 2.5 mm² </td><td>Accessories</td><td>12/40</td><td>C</td><td>8WH9 000-1VA00</td><td>100</td><td>50</td><td>044</td></tr></table>						- Gray - Without equipotential bonding, 2-pole  - With equipotential bonding, 1-pole - Blue, 2-pole	C	8WH2 020-0AE00	1	50	044		C	8WH2 025-0AE00	1	50	044		C	8WH2 020-0AE01	1	50	044	Accessories	Section	Page					Compartment partitions, for terminal sizes 1.5 to 4 mm²	Accessories	12/40	C	8WH9 070-0BA00	100	50	044	Covers, for terminal sizes 1.5 to 2.5 mm²	Accessories	12/40	C	8WH9 000-1VA00	100	50	044						
- Gray - Without equipotential bonding, 2-pole  - With equipotential bonding, 1-pole - Blue, 2-pole	C	8WH2 020-0AE00	1	50	044																																																
	C	8WH2 025-0AE00	1	50	044																																																
	C	8WH2 020-0AE01	1	50	044																																																
Accessories	Section	Page																																																			
Compartment partitions, for terminal sizes 1.5 to 4 mm²	Accessories	12/40	C	8WH9 070-0BA00	100	50	044																																														
Covers, for terminal sizes 1.5 to 2.5 mm²	Accessories	12/40	C	8WH9 000-1VA00	100	50	044																																														
 8WH2 020-0CE07  I2_12688 8WH2 020-0CE07	C	8WH2 020-0CE07	1	50	044																																																
Terminal size 2.5 mm²																																																					
 8WH2 020-0AF00  I2_12691 8WH2 020-0AF00  I2_14017 8WH2 025-0AF00	Two-tier terminals, terminal size 2.5 mm² - Terminal width 5.2 mm  US - IEC 60947-7-1 - Rigid, 0.08 ... 4 mm² - Flexible, 0.08 ... 2.5 mm² - AWG 28-12 - I = 26 A - The total current through all connected conductors must not exceed the max. load current - U = 500 V - EN 50019 - Rigid, 0.2 ... 4 mm² - Flexible, 0.2 ... 2.5 mm² - AWG 24-12 - I = 23/19 A - U = 420 V Versions <table><tr><td> - Gray - Without equipotential bonding, 2-pole - With equipotential bonding, 1-pole - Blue - Without equipotential bonding, 2-pole - With equipotential bonding, 1-pole </td><td>C</td><td>8WH2 020-0AF00</td><td>1</td><td>50</td><td>044</td></tr><tr><td></td><td>C</td><td>8WH2 025-0AF00</td><td>1</td><td>50</td><td>044</td></tr><tr><td></td><td>C</td><td>8WH2 020-0AF01</td><td>1</td><td>50</td><td>044</td></tr><tr><td></td><td>C</td><td>8WH2 025-0AF01</td><td>1</td><td>50</td><td>044</td></tr></table> Accessories <table><tr><th>Accessories</th><th>Section</th><th>Page</th><td></td><td></td><td></td><td></td></tr><tr><td> - Compartment partitions, for terminal sizes 1.5 to 4 mm² </td><td>Accessories</td><td>12/40</td><td>C</td><td>8WH9 070-0BA00</td><td>100</td><td>50</td><td>044</td></tr><tr><td> - Covers, for terminal sizes 1.5 to 2.5 mm² </td><td>Accessories</td><td>12/40</td><td>C</td><td>8WH9 000-1VA00</td><td>100</td><td>50</td><td>044</td></tr></table>						- Gray - Without equipotential bonding, 2-pole - With equipotential bonding, 1-pole - Blue - Without equipotential bonding, 2-pole - With equipotential bonding, 1-pole	C	8WH2 020-0AF00	1	50	044		C	8WH2 025-0AF00	1	50	044		C	8WH2 020-0AF01	1	50	044		C	8WH2 025-0AF01	1	50	044	Accessories	Section	Page					Compartment partitions, for terminal sizes 1.5 to 4 mm²	Accessories	12/40	C	8WH9 070-0BA00	100	50	044	Covers, for terminal sizes 1.5 to 2.5 mm²	Accessories	12/40	C	8WH9 000-1VA00	100	50	044
- Gray - Without equipotential bonding, 2-pole - With equipotential bonding, 1-pole - Blue - Without equipotential bonding, 2-pole - With equipotential bonding, 1-pole	C	8WH2 020-0AF00	1	50	044																																																
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	C	8WH2 020-0AF01	1	50	044																																																
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Compartment partitions, for terminal sizes 1.5 to 4 mm²	Accessories	12/40	C	8WH9 070-0BA00	100	50	044																																														
Covers, for terminal sizes 1.5 to 2.5 mm²	Accessories	12/40	C	8WH9 000-1VA00	100	50	044																																														

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

8WH two-tier terminals

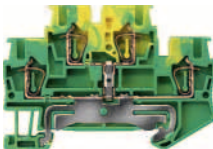
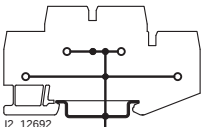
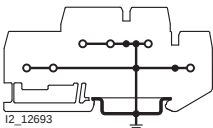
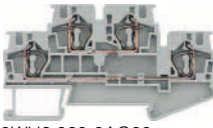
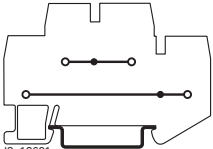
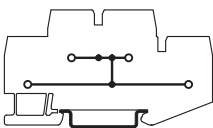
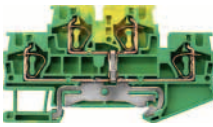
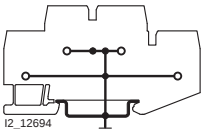
Version		DT	Order No.	Price per PU	PU	PS*/P. unit	PG								
					Unit(s)	Unit(s)									
 8WH2 023-0AF00	Two-tier terminals, terminal size 2.5 mm², three clamping points on one level - Terminal width 5.2 mm - UL - IEC 60947-7-1 - Rigid, 0.08 ... 4 mm² - Flexible, 0.08 ... 2.5 mm² - AWG 28-12 - I = 26 A - The total current through all connected conductors must not exceed the max. load current - U = 500 V														
 I2_12691 8WH2 023-0AF00	Versions - Gray - Without equipotential bonding, 2-pole - With equipotential bonding, 1-pole - Blue, 2-pole														
 I2_14017 8WH2 022-0AF00	<table><thead><tr><th>Accessories</th><th>Section</th><th>Page</th></tr></thead><tbody><tr><td>Compartment partitions, for terminal sizes 1.5 to 4 mm²</td><td>Accessories</td><td>12/40</td></tr><tr><td>Covers, for terminal size 2.5 mm² and three terminals</td><td>Accessories</td><td>12/40</td></tr></tbody></table>	Accessories	Section	Page	Compartment partitions, for terminal sizes 1.5 to 4 mm²	Accessories	12/40	Covers, for terminal size 2.5 mm² and three terminals	Accessories	12/40					
Accessories	Section	Page													
Compartment partitions, for terminal sizes 1.5 to 4 mm²	Accessories	12/40													
Covers, for terminal size 2.5 mm² and three terminals	Accessories	12/40													
		C	8WH2 023-0AF00		1	50	044								
		C	8WH2 022-0AF00		1	50	044								
		C	8WH2 023-0AF01		1	50	044								
		C	8WH9 070-0BA00		100	50	044								
		C	8WH9 000-2VA00		100	50	044								
 8WH2 020-4AF00	Two-tier terminals, terminal size 2.5 mm², L at top and PE at bottom - Gray - Terminal width 5.2 mm - UL - DIN VDE 0611 and IEC 60947-7-2 - Rigid, 0.08 ... 4 mm² - Flexible, 0.08 ... 2.5 mm² - AWG 28-12 - I = 32 A - U = 500 V	C	8WH2 020-4AF00		1	50	044								
 I2_12689 8WH2 020-4AF00	<table><thead><tr><th>Accessories</th><th>Section</th><th>Page</th></tr></thead><tbody><tr><td>Compartment partitions, for terminal sizes 1.5 to 4 mm²</td><td>Accessories</td><td>12/40</td></tr><tr><td>Covers, for terminal sizes 1.5 to 2.5 mm²</td><td>Accessories</td><td>12/40</td></tr></tbody></table>	Accessories	Section	Page	Compartment partitions, for terminal sizes 1.5 to 4 mm²	Accessories	12/40	Covers, for terminal sizes 1.5 to 2.5 mm²	Accessories	12/40					
Accessories	Section	Page													
Compartment partitions, for terminal sizes 1.5 to 4 mm²	Accessories	12/40													
Covers, for terminal sizes 1.5 to 2.5 mm²	Accessories	12/40													
		C	8WH9 070-0BA00		100	50	044								
		C	8WH9 000-1VA00		100	50	044								
 8WH2 020-4BF00	Two-tier terminals, terminal size 2.5 mm², N at top and PE at bottom - Gray - Terminal width 5.2 mm - DIN VDE 0611 and IEC 60947-7-2 - Rigid, 0.08 ... 4 mm² - Flexible, 0.08 ... 2.5 mm² - AWG 28-12 - I = 32 A - U = 500 V	C	8WH2 020-4BF00		1	50	044								
 I2_12690 8WH2 020-4BF00	<table><thead><tr><th>Accessories</th><th>Section</th><th>Page</th></tr></thead><tbody><tr><td>Compartment partitions, for terminal sizes 1.5 to 4 mm²</td><td>Accessories</td><td>12/40</td></tr><tr><td>Covers, for terminal sizes 1.5 to 2.5 mm²</td><td>Accessories</td><td>12/40</td></tr></tbody></table>	Accessories	Section	Page	Compartment partitions, for terminal sizes 1.5 to 4 mm²	Accessories	12/40	Covers, for terminal sizes 1.5 to 2.5 mm²	Accessories	12/40					
Accessories	Section	Page													
Compartment partitions, for terminal sizes 1.5 to 4 mm²	Accessories	12/40													
Covers, for terminal sizes 1.5 to 2.5 mm²	Accessories	12/40													
		C	8WH9 070-0BA00		100	50	044								
		C	8WH9 000-1VA00		100	50	044								
 8WH2 020-4CF00	Two-tier terminals, terminal size 2.5 mm², N at top and L at bottom - Gray - Terminal width 5.2 mm - UL - IEC 60947-7-1 - Rigid, 0.08 ... 4 mm² - Flexible, 0.08 ... 2.5 mm² - AWG 28-12 - I = 26 A - U = 500 V	C	8WH2 020-4CF00		1	50	044								
 I2_12691 8WH2 020-4CF00	<table><thead><tr><th>Accessories</th><th>Section</th><th>Page</th></tr></thead><tbody><tr><td>Compartment partitions, for terminal sizes 1.5 to 4 mm²</td><td>Accessories</td><td>12/40</td></tr><tr><td>Covers, for terminal sizes 1.5 to 2.5 mm²</td><td>Accessories</td><td>12/40</td></tr></tbody></table>	Accessories	Section	Page	Compartment partitions, for terminal sizes 1.5 to 4 mm²	Accessories	12/40	Covers, for terminal sizes 1.5 to 2.5 mm²	Accessories	12/40					
Accessories	Section	Page													
Compartment partitions, for terminal sizes 1.5 to 4 mm²	Accessories	12/40													
Covers, for terminal sizes 1.5 to 2.5 mm²	Accessories	12/40													
		C	8WH9 070-0BA00		100	50	044								
		C	8WH9 000-1VA00		100	50	044								

* You can order this quantity or a multiple thereof.

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

8WH two-tier terminals

Version	DT	Order No.	Price per PU	PU	PS*/P. unit	PG
				Unit(s)	Unit(s)	
 8WH2 020-0CF07  I2_12692 8WH2 020-0CF07	PE two-tier terminals, terminal size 2.5 mm², two clamping points on one level - Terminal width 5.2 mm  - IEC 60947-7-2 - Rigid, 0.08 ... 4 mm² - Flexible, 0.08 ... 2.5 mm² - AWG 28-12 - EN 50019 - Rigid, 0.2 ... 4 mm² - Flexible, 0.2 ... 2.5 mm² - AWG 24-12 - Green-yellow	C	8WH2 020-0CF07	1	50	044
Accessories		Section	Page			
Covers, for terminal sizes 1.5 to 2.5 mm²		Accessories	12/40	C	8WH9 000-1VA00	100 50 044
 8WH2 023-0CF07  I2_12693 8WH2 023-0CF07	PE two-tier terminals, terminal size 2.5 mm², three clamping points on one level - Terminal width 5.2 mm  - IEC 60947-7-2 - Rigid, 0.08 ... 4 mm² - Flexible, 0.08 ... 2.5 mm² - AWG 28-12 - EN 50019 - Rigid, 0.2 ... 4 mm² - Flexible, 0.2 ... 2.5 mm² - AWG 24-12 - Green-yellow	C	8WH2 023-0CF07	1	50	044
Accessories		Section	Page			
• Compartment partitions, for terminal sizes 1.5 to 4 mm²		Accessories	12/40	C	8WH9 070-0BA00	100 50 044
• Covers, for terminal size 2.5 mm² and three terminals		Accessories	12/40	C	8WH9 000-2VA00	100 50 044
Terminal size 4 mm²						
 8WH2 020-0AG00  I2_12691 8WH2 020-0AG00  I2_14017 8WH2 025-0AG00	Two-tier terminals, terminal size 4 mm² - Terminal width 6.2 mm  - IEC 60947-7-1 - Rigid, 0.08 ... 6 mm² - Flexible, 0.08 ... 4 mm² - AWG 28-10 - I = 32 A - The total current through all connected conductors must not exceed the max. load current - U = 500 V - EN 50019 - Rigid, 0.2 ... 6 mm² - Flexible, 0.2 ... 4 mm² - AWG 24-10 - I = 30/27 A - U = 420 V					
Versions						
• Gray				C	8WH2 020-0AG00	1 50 044
- Without equipotential bonding, 2-pole				C	8WH2 025-0AG00	1 50 044
- With equipotential bonding, 1-pole				C	8WH2 020-0AG01	1 50 044
• Blue, 2-pole						
Accessories		Section	Page			
• Compartment partitions, for terminal sizes 1.5 to 4 mm²		Accessories	12/40	C	8WH9 070-0BA00	100 50 044
• Covers, for terminal size 4 mm²		Accessories	12/40	C	8WH9 003-1VA00	100 50 044
 8WH2 020-0CG07  I2_12694 8WH2 020-0CG07	PE two-tier terminals, terminal size 4 mm² - Terminal width 6.2 mm  - IEC 60947-7-2 - Rigid 0.08 - 6 mm² - Flexible 0.08 - 4 mm² - AWG 28-10 - EN 50019 - Rigid 0.2 - 6 mm² - Flexible 0.2 - 4 mm² - AWG 24-10 - Green-yellow	C	8WH2 020-0CG07	1	50	044
Accessories		Section	Page			
• Compartment partitions, for terminal sizes 1.5 to 4 mm²		Accessories	12/40	C	8WH9 070-0BA00	100 50 044
• Covers, for terminal size 4 mm²		Accessories	12/40	C	8WH9 003-1VA00	100 50 044

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

8WH two-tier terminals

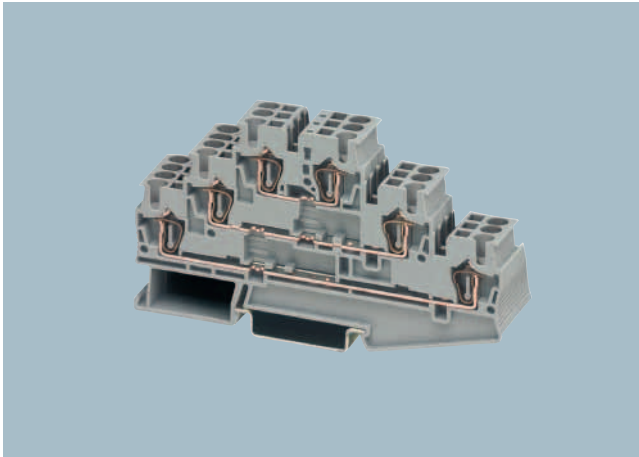
Version		DT	Order No.	Price per PU	PU	PS*/ P. unit	PG
					Unit(s)	Unit(s)	
Accessories							
	Compartment partitions, for terminal size 1.5 to 4 mm²		C	8WH9 070-0BA00	100	50	044
	• For visual and electrical separation of terminal groups • 2 mm thick						
8WH9 070-0BA00							
	Covers						
	Gray						
	Versions						
	• For terminal sizes 1.5 to 2.5 mm²		C	8WH9 000-1VA00	100	50	044
	• For terminal size 2.5 mm² and three clamping points		C	8WH9 000-2VA00	100	50	044
	• For terminal size 4 mm²		C	8WH9 003-1VA00	100	50	044
8WH9 000-1VA00							

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

8WH three-tier terminals

Overview



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

With one bridge slot per tier, these terminal blocks are ideal for use as compact potential distribution boards or initiator terminals.

All six clamping points are interconnected on the equipotential bonding versions.

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

The three-tier terminals support inscription on each tier. In addition, label holders can be used to provide a larger inscription for the three tiers.

Benefits

- Three feed-through levels with minimum footprint
- Comprehensive range of inscription options
- Matching accessories for 8WH terminal range
- One bridge slot per level

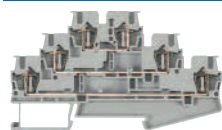
Technical specifications

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

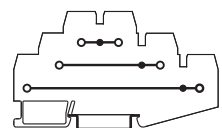
Selection and ordering data

Version	DT	Order No.	Price ¹⁾ per PU	PU	PS ²⁾ / P. unit	PG
				Unit(s)	Unit(s)	

Terminal size 2.5 mm²



8WH2 030-0AF00



8WH2 030-0AF00

Three-tier terminals, terminal size 2.5 mm²

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

Versions

- Gray
- Blue

Accessories

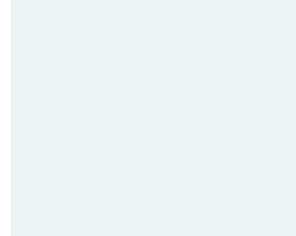
- Covers for three-tier terminals
- Label holders for three-tier terminals

Section

- Accessories
- Accessories

Page

- 12/42
- 12/42



8WH2 030-0AF00 8WH2 030-0AF01	1	50	044
8WH2 030-0AF01	1	50	044
8WH9 000-1GD00 8WH9 060-4BA00	100	50	044
8WH9 060-4BA00	100	100	044

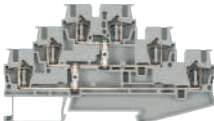
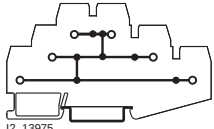
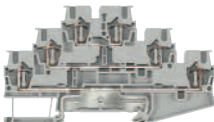
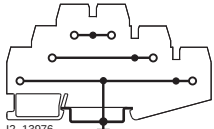
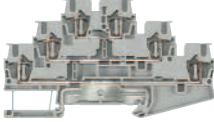
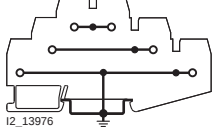
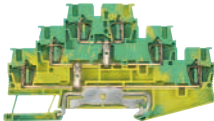
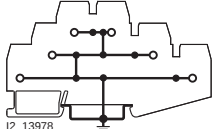
* You can order this quantity or a multiple thereof.

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

8WH three-tier terminals



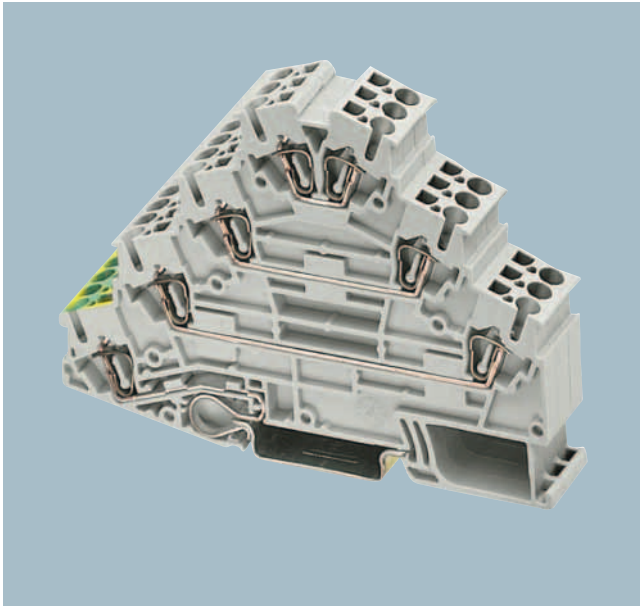
Version	DT	Order No.	Price ¹⁾ per PU	PU Unit(s)	PS ²⁾ / P. unit Unit(s)	PG
 8WH2 035-0AF00  I2_13975 8WH2 035-0AF00	A	8WH2 035-0AF00		1	50	044
Three-tier terminals, with equipotential bonding, terminal size 2.5 mm² - Enclosed at both ends - Terminal width 5.2 mm - C_{UL}US - IEC 60947-7-1 - Rigid 0.08-4 mm² - Flexible 0.08-2.5 mm² - AWG 28-12 - I = 28 A - U = 500 V						
Accessories		Section	Page			
Covers for three-tier terminals		Accessories	12/42	A	8WH9 000-1GD00	100 50 044
Label holders for three-tier terminals		Accessories	12/42	A	8WH9 060-4BA00	100 100 044
Note						
The total current through all connected conductors must not exceed the max. load current.						
 8WH2 030-4EF00  I2_13976 8WH2 030-4EF00	A	8WH2 030-4EF00		1	50	044
Three-tier terminals, "PE/L/N", terminal size 2.5 mm² - Enclosed at both ends - Terminal width 5.2 mm - C_{UL}US - IEC 60947-7-1 + IEC 60947-7-2 - Rigid 0.08-4 mm² - Flexible 0.08-2.5 mm² - AWG 28-12						
Accessories		Section	Page			
Covers for three-tier terminals		Accessories	12/42	A	8WH9 000-1GD00	100 50 044
Label holders for three-tier terminals		Accessories	12/42	A	8WH9 060-4BA00	100 100 044
 8WH2 030-4HF00  I2_13976 8WH2 030-4HF00	A	8WH2 030-4HF00		1	50	044
Three-tier terminals, "PE/L/L", terminal size 2.5 mm² - Enclosed at both ends - Terminal width 5.2 mm - C_{UL}US - IEC 60947-7-1 + IEC 60947-7-2 - Rigid 0.08-4 mm² - Flexible 0.08-2.5 mm² - AWG 28-12 - I = 28 A - U = 500 V						
Accessories		Section	Page			
Covers for three-tier terminals		Accessories	12/42	A	8WH9 000-1GD00	100 50 044
Label holders for three-tier terminals		Accessories	12/42	A	8WH9 060-4BA00	100 100 044
 8WH2 035-0CF07  I2_13978 8WH2 035-0CF07	A	8WH2 035-0CF07		1	50	044
PE three-tier terminals, terminal size 2.5 mm² - Enclosed at both ends - Terminal width 5.2 mm - C_{UL}US - IEC 60947-7-2 - Rigid 0.08-4 mm² - Flexible 0.08-2.5 mm² - AWG 28-12						
Accessories		Section	Page			
Covers for three-tier terminals		Accessories	12/42	A	8WH9 000-1GD00	100 50 044
Label holders for three-tier terminals		Accessories	12/42	A	8WH9 060-4BA00	100 100 044
Accessories						
 8WH9 000-1GD00	A	8WH9 000-1GD00		100	50	044
 8WH9 060-4BA00	A	8WH9 060-4BA00		100	100	044

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

8WH four-tier motor terminals

Overview



Terminal size 2.5 mm²

Four-tier motor terminals with terminal size 2.5 mm² are particularly suited for the compact wiring of three-phase loads. They have three through-type tiers and a PE terminal which makes contact when it is simply snapped onto the support rail.

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

There is also sufficient space to make a large marking in the center of the terminal.

No cross-linking option.

Terminal size 4 mm²

Like the 2.5 mm² version, the four-tier motor terminal with 4 mm² also enables three phases and the PE to be wired in one terminal. This terminal is enclosed on both sides.

No cross-linking option.

Integrated PE/ground conductor function

PE contact with the support rail is made by simply snapping the terminal onto the rail. The four-tier motor terminal with terminal size 4 mm² is therefore particularly suited for the space-saving wiring of three-phase loads.

Technical specifications

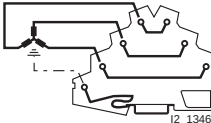
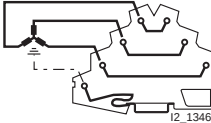
	8WH2 040-4LF00	8WH2 040-4LG00
Dimensions		
• Width / length / width of cover in mm	5.2 / 98.5 / 2.2	6.2 / 101 / --
• Height (NS 35/7.5 / NS 35/15) in mm	73.5 / 81	83.5 / 91
Technical specifications acc. to IEC/DIN VDE		
• Max. load current in A / cross-section in mm ²	26 / 4	32 / 6
• Rated impulse withstand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

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

8WH four-tier motor terminals

Selection and ordering data

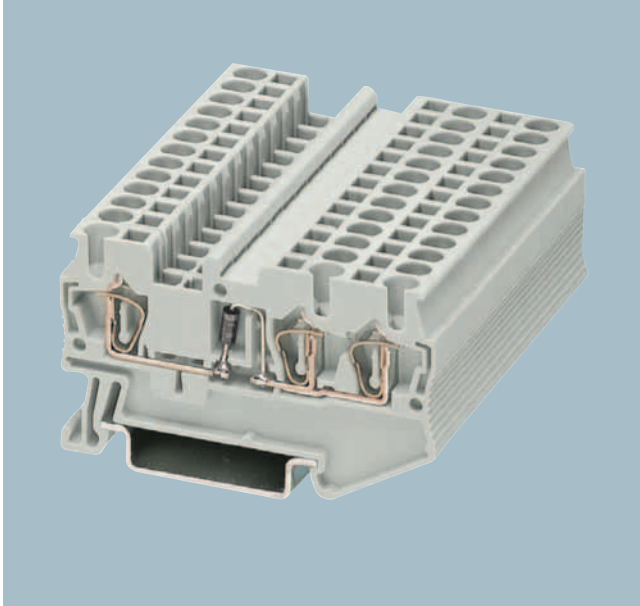
Version	DT	Order No.	Price per PU	PU Unit(s)	PS*/ P. unit Unit(s)	PG
Terminal size 2.5 mm²						
	C	8WH2 040-4LF00		1	50	044
Four-tier motor terminals, terminal size 2.5 mm² - Terminal width 5.2 mm - Siemens - IEC 60947-7-1 and IEC 60947-7-2 - Rigid 0.08 - 4 mm² - Flexible 0.08 - 2.5 mm² - AWG 28-12 - I = 26 A - U = 800 V						
Accessories		Section	Page			
Covers, for "four-tier motor terminals, terminal size 2.5 mm²"		Accessories	12/44	C	8WH9 000-1GE00	100 50 044
						
Terminal size 4 mm²						
	C	8WH2 040-4LG00		1	50	044
Four-tier motor terminals, terminal size 4 mm² - Terminal width 5.2 mm - Siemens - IEC 60947-7-1 and IEC 60947-7-2 - Rigid 0.08 - 6 mm² - Flexible 0.08 - 4 mm² - AWG 28-10 - I = 32 A - U = 800 V - Enclosed at both ends						
						
Accessories						
Covers, for "four-tier motor terminals, terminal size 2.5 mm²"		C	8WH9 000-1GE00	100	50	044

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

8WH diode terminals

Overview



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

Technical specifications

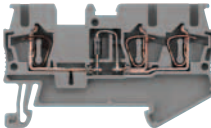
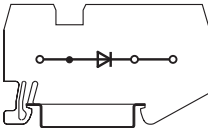
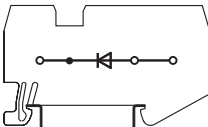
	8WH2 003-5DF00 8WH2 003-5CF00
Dimensions	
• Width / length / width of cover in mm	5.5 / 60.5 / 2.2
• Height HV-M... (NS 35/7.5 / NS 35/15) in mm	36.5 / 44
Technical specifications acc. to IEC/DIN VDE	
• Max. load current in A / cross-section in mm ²	Determined by the diode / 4
• Rated impulse withstand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

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

8WH diode terminals

Selection and ordering data

Version		DT	Order No.	Price per PU	PU	PS*/ P. unit	PG	
					Unit(s)	Unit(s)		
Terminal size 2.5 mm²								
 8WH2 003-5DF00  I2_12712 8WH2 003-5DF00  I2_12713 8WH2 003-5CF00			Diode terminals, terminal size 2.5 mm², with three clamping points - Uninterrupted limiting current: 0.5 A - Blocking voltage: 1300 V - Terminal width 5.2 mm - Supply data - Rigid 0.08 - 4 mm² - Flexible 0.08 - 2.5 mm² - AWG 28-12 - I = the maximum current is determined by the diode - U = 500 V - With integrated diode - Integrated: diode 1N 4007					
Versions								
- Let-through from left to right - Let-through from right to left			C	8WH2 003-5DF00	1	50	044	
			C	8WH2 003-5CF00	1	50	044	
Accessories		Section	Page					
Compartment partitions, for terminal size 1.5 to 4 mm² and three clamping points		Accessories	12/46	C	8WH9 070-0GA00	100	50	044
Covers, for terminal sizes 1.5 to 2.5 mm² and three clamping points		Accessories	12/46	C	8WH9 000-4GA00	100	50	044
Cover segments, for terminal sizes 1.5 and 2.5 mm² and three clamping points		Accessories	12/46	A	8WH9 000-0GA00	100	10	044
Accessories								
Compartment partitions, for terminal size 1.5 to 4 mm² and three clamping points			C	8WH9 070-0GA00	100	50	044	
Covers, for terminal sizes 1.5 to 2.5 mm² and three clamping points			C	8WH9 000-4GA00	100	50	044	
Cover segments, for terminal sizes 1.5 and 2.5 mm² and three clamping points			A	8WH9 000-0GA00	100	10	044	
 8WH9 000-0GA00								

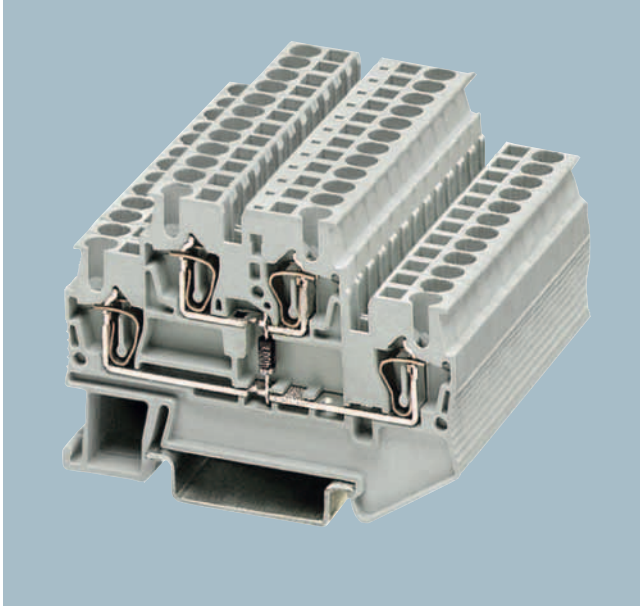
* You can order this quantity or a multiple thereof.

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

8WH two-tier diode terminals

Overview



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

The following circuits are possible in the tightest spaces:

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

Technical specifications

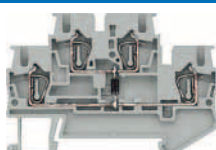
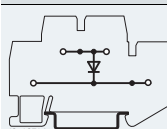
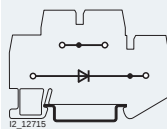
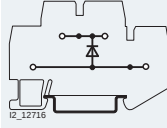
	8WH2 020-5AF00 8WH2 020-5DF00 8WH2 020-5BF00	8WH2 020-5HF00 8WH2 020-5FF00 8WH2 020-5KF00 8WH2 020-5EF00 8WH2 020-5GF00	8WH2 020-5JF30 8WH2 020-5JF60 8WH2 020-5JF80
Dimensions			
• Width / length / width of cover in mm	5.2 / 67.5 / 2.2		
• Height (NS 35/7.5 / NS 35/15) in mm	47.5 / 55		
Technical specifications acc. to IEC/DIN VDE			
• Max. load current in A / cross-section in mm²	26 / 4		
• Rated impulse withstand voltage in kV / pollution degree	4 / 3		
• Overvoltage category / insulating group	III / I		
Connection capacities			
• Flexible with end sleeve with plastic sleeve in mm²	0.25 ... 2.5		
• Flexible with end sleeve without plastic sleeve in mm²	0.25 ... 2.5		
• Flexible with two-wire connection end sleeve with plastic sleeve in mm²	0.5		
Stripped length in mm	10		
Plug gage (IEC 60947-1)	A3		
Insulation type	PA		
• Flammability class acc. to UL 94	V0		
Approval data (UL/CUL and CSA)			
• Rated voltage / current / cable sizes			
- UL/CUL: in V/A / AWG	300 / 20 / 26-12		
- CSA: in V/A / AWG	300 / 20 / 26-12		

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

8WH two-tier diode terminals

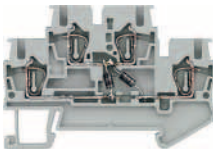
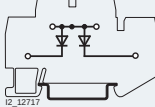
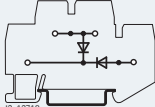
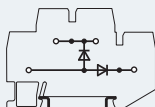
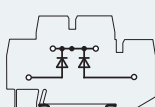
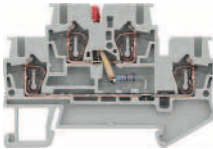
Selection and ordering data

Version	DT	Order No.	Price per PU	PU	PS*/P. unit	PG
				Unit(s)	Unit(s)	
General details •  US						
Terminal size 2.5 mm²  8WH2 020-5AF00						
Two-tier diode terminals, terminal size 2.5 mm², with one diode • Terminal width 5.2 mm • Supply data - Rigid 0.08 - 4 mm ² - Flexible 0.08 - 2.5 mm ² - AWG 28-12 - $I = 26 \text{ A}$ - $U = 500 \text{ V}$ • Maximum current determined by diode • Integrated: diode 1N 4007 • Blocking voltage: 1300 V • Uninterrupted limiting current: 0.5 A						
Circuit diagram	Versions					
	Let-through from top to bottom	C	8WH2 020-5AF00	1	50	044
	Let-through from bottom left to bottom right	C	8WH2 020-5DF00	1	50	044
	Let-through from bottom to top	C	8WH2 020-5BF00	1	50	044
Accessories	Section	Page				
• <i>Compartment partitions, for terminal size 1.5 to 4 mm²</i>	Accessories	12/49	C	8WH9 070-0BA00	100	50 044
• <i>Covers, for terminal sizes 1.5 and 2.5 mm²</i>	Accessories	12/49	C	8WH9 000-1VA00	100	50 044

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

8WH two-tier diode terminals

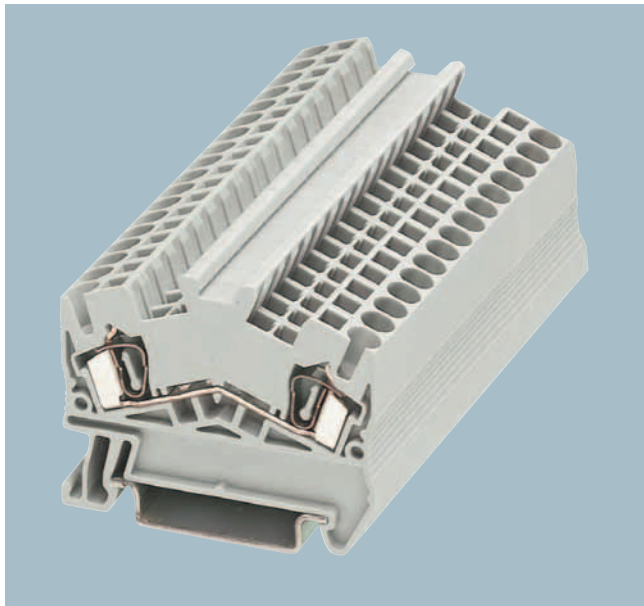
Version		DT	Order No.	Price per PU	PU	PS*/P. unit	PG
					Unit(s)	Unit(s)	
 8WH2 020-5HF00	Two-tier diode terminals, terminal size 2.5 mm², with two diodes - Terminal width 5.2 mm - Supply data - Rigid 0.08 - 4 mm² - Flexible 0.08 - 2.5 mm² - AWG 28-12 - I = 26 A - U = 500 V - Maximum current determined by diode - Integrated: diode 1N 4007 - Blocking voltage: 1300 V - Uninterrupted limiting current: 0.5 A						
	Circuit diagram	Versions					
		Let-through from top to bottom left and from top to bottom right	C	8WH2 020-5HF00	1	50	044
		Let-through from top to bottom left and from bottom right to bottom left	C	8WH2 020-5KF00	1	50	044
		Let-through from bottom left to top and from bottom left to bottom right	C	8WH2 020-5EF00	1	50	044
		Let-through from bottom left to top and from bottom right to top	C	8WH2 020-5GF00	1	50	044
	Accessories		Section	Page			
	• Compartment partitions, for terminal size 1.5 to 4 mm²		Accessories	12/49	C	8WH9 070-0BA00	100 50 044
	• Covers, for terminal sizes 1.5 and 2.5 mm²		Accessories	12/49	C	8WH9 000-1VA00	100 50 044
	 8WH2 020-5JF30	Two-tier diode terminals, terminal size 2.5 mm², with LED display - Terminal width 5.2 mm - Supply data - Rigid 0.08 - 4 mm² - Flexible 0.08 - 2.5 mm² - AWG 28-12 - I = 26 A - U = 500 V					
Versions							
• 15 to 30 V DC / 2.5 to 7.5 A		C	8WH2 020-5JF30	1	50	044	
• 30 to 60 V DC / 1.9 to 4.0 A		C	8WH2 020-5JF60	1	50	044	
• 110 to 230 V AC/DC / 0.5 to 1.0 A (glow lamp)		C	8WH2 020-5JF80	1	50	044	
Accessories		Section	Page				
• Compartment partitions, for terminal size 1.5 to 4 mm²		Accessories	12/49	C	8WH9 070-0BA00	100 50 044	
• Covers, for terminal sizes 1.5 and 2.5 mm²		Accessories	12/49	C	8WH9 000-1VA00	100 50 044	
Accessories							
Compartment partitions, for terminal size 1.5 to 4 mm²		C	8WH9 070-0BA00	100	50	044	
Covers, for terminal size 1.5 and 2.5 mm²		C	8WH9 000-1VA00	100	50	044	

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

8WH compact through-type terminals

Overview



With two clamping points

The compact through-type terminal series is characterized by the angled routing of the conductors. This compact range of terminals is largely used in wiring systems where underfloor wiring is used to save space.

The compact through-type terminals are available in the cross-sectional ranges 2.5 mm², 4 mm² and 6 mm². With terminal size 2.5 and 4 mm² they have four bridge slots, enabling numerous potential bridging options and the use of a comprehensive range of test accessories.

The product range includes PE terminals with the same contour, which meet all the requirements of IEC 60947-7-2.

With three clamping points

The three-conductor spring-loaded terminals have the same contour as the two-conductor through-type terminals. The uniform connecting comb system also enables cross-connection to adjoining through-type terminals.

The compact through-type terminals are available in the nominal cross-sections 2.5 mm² to 6 mm².

With four clamping points

The compact four-wire terminals have the same contour as the through-type and three-conductor terminals with the same cross-section.

No cross-linking option.

PE/ground conductor function

PE/ground conductor terminals with the same contour are also available for the compact through-type terminals. Contact with the support rail is achieved by simply snapping the terminals onto the rail. This meets all the requirements of IEC 60947-7-2.

Conductor cross-section	Connection type →		Compact spring-loaded connection				Order No. (digits 8 ... 12)
	Connection type →		Standard			Two-tier	
	Number of clamping points →		2	3	4	4	
	Order No. (Digits 1 ... 7) →		8WH2 500	8WH2 503	8WH2 504	8WH2 520	
	Terminal type ¹⁾	Color					
2.5 mm ²	Through-type	Gray	✓	✓	✓	✓	0AF00
		Blue	✓	✓	✓	✓	0AF01
	Isolating	Gray	✓	--	--	--	6AF00
	Isolating blade	Gray	✓	--	--	--	0CF00
	PE	Green-yellow	✓	✓	✓	✓	0CF07
4 mm ²	Through-type	Gray	✓	✓	✓	✓	0AG00
		Blue	✓	✓	✓	✓	0AG01
	PE	Green-yellow	✓	✓	✓	✓	0CG07
6 mm ²	Through-type	Gray	✓	✓	--	--	0AH00
		Blue	✓	✓	--	--	0AH01
	PE	Green-yellow	✓	✓	--	--	0CH07

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

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

8WH compact through-type terminals

Technical specifications

	8WH2 500-0AF00 8WH2 500-0AF01	8WH2 500-0CF07	8WH2 503-0AF00 8WH2 503-0AF01	8WH2 503-0CF07
Dimensions				
• Width / length / width of cover in mm	5.2 / 51 / 2.2			
• Height (NS 35/7.5 / NS 35/15) in mm	43 / 50.5			
Technical specifications acc. to IEC/DIN VDE				
• Max. load current in A / cross-section in mm²	--			
• Maximum // rated data in A / mm²	31 / 4 // -	--	28 / 4 // -	--
• Rated impulse withstand voltage in kV / pollution degree	8 / 3			
• Overvoltage category / insulating group	III / I			
Connection capacities				
• Flexible with end sleeve with plastic sleeve in mm²	0.25 ... 2.5			
• Flexible with end sleeve without plastic sleeve in mm²	0.25 ... 2.5			
• Flexible with two-wire connection end sleeve with plastic sleeve in mm²	0.5			
Stripped length in mm	10			
Plug gage (IEC 60947-1)	A3			
Insulation type	PA			
• Flammability class acc. to UL 94	V0			
Approval data (UL/CUL and CSA)				
• Rated voltage / current / cable sizes				
- UL/CUL: in V/A / AWG	600 / 20 / 26-12	-- / -- / 26-12	600 / 20 / 26-12	-- / -- / 26-12
- CSA: in V/A / AWG	--			
Support rails/protective conductor busbars	--	See section <i>Support rails</i>	--	See section <i>Support rails</i>

	8WH2 504-0AF00 8WH2 504-0AF01	8WH2 504-0CF07	8WH2 500-0AG00 8WH2 500-0AG01	8WH2 500-0CG07
Dimensions				
• Width / length / width of cover in mm	5.2 / 51 / 2.2		6.2 / 64.5 / 2.2	
• Height (NS 35/7.5 / NS 35/15) in mm	43 / 50.5			
Technical specifications acc. to IEC/DIN VDE				
• Max. load current in A / cross-section in mm²	28 / 4	--		
• Maximum // rated data in A / mm²	--		38 / 6 // --	--
• Rated impulse withstand voltage in kV / pollution degree	8 / 3			
• Overvoltage category / insulating group	III / I			
Connection capacities				
• Flexible with end sleeve with plastic sleeve in mm²	0.25 ... 2.5		0.25 ... 4	
• Flexible with end sleeve without plastic sleeve in mm²	0.25 ... 2.5		0.25 ... 4	
• Flexible with two-wire connection end sleeve with plastic sleeve in mm²	0.5		0.5 ... 1	
Stripped length in mm	10			
Plug gage (IEC 60947-1)	A3		A4	
Insulation type	PA			
• Flammability class acc. to UL 94	V0			
Approval data (UL/CUL and CSA)				
• Rated voltage / current / cable sizes				
- UL/CUL: in V/A / AWG	600 / 20 / 26-12	-- / -- / 26-12	600 / 30 / 20-10	-- / -- / 26-12
- CSA: in V/A / AWG	--			
Support rails/protective conductor busbars	--	See section <i>Support rails</i>	--	See section <i>Support rails</i>

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

8WH compact through-type terminals

	8WH2 503-0AG00 8WH2 503-0AG01	8WH2 503-0CG07	8WH2 504-0AG00 8WH2 504-0AG01	8WH2 504-0CG07
Dimensions				
• Width / length / width of cover in mm	6.2 / 64.5 / 2.2			
• Height (NS 35/7.5 / NS 35/15) in mm	43 / 50.5			
Technical specifications acc. to IEC/DIN VDE				
• Max. load current in A / cross-section in mm ²	--		38 / 6	--
• Maximum // rated data in A / mm ²	38 / 6 // -	--		
• Rated impulse withstand voltage in kV / pollution degree	8 / 3			
• Overvoltage category / insulating group	III / I			
Connection capacities				
• Flexible with end sleeve with plastic sleeve in mm ²	0.25 ... 4			
• Flexible with end sleeve without plastic sleeve in mm ²	0.25 ... 4			
• Flexible with two-wire connection end sleeve with plastic sleeve in mm ²	0.5 ... 1			
Stripped length in mm	10			
Plug gage (IEC 60947-1)	A4			
Insulation type	PA			
• Flammability class acc. to UL 94	V0			
Approval data (UL/CUL and CSA)				
• Rated voltage / current / cable sizes				
- UL/CUL: in V/A / AWG	600 / 20 / 26-12	-- / -- / 20-10	600 / 30 / 20-10	-- / -- / 20-10
- CSA: in V/A / AWG	--			
Support rails/protective conductor busbars	--	See section <i>Support rails</i>	--	See section <i>Support rails</i>

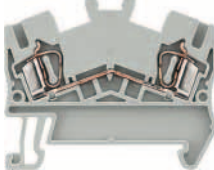
	8WH2 500-0AH00 8WH2 500-0AH01	8WH2 500-0CH07	8WH2 503-0AH00 8WH2 503-0AH01	8WH2 503-0CH07
Dimensions				
• Width / length / width of cover in mm	8.2 / 58 / 2.2		8.2 / 70 / 2.2	
• Height (NS 35/7.5 / NS 35/15) in mm	50 / 57.5			
Technical specifications acc. to IEC/DIN VDE				
• Max. load current in A / cross-section in mm ²	--			
• Maximum // rated data in A / mm ²	52 / 10 // 41 / 6	--	52 / 10 // 41 / 6	--
• Rated impulse withstand voltage in kV / pollution degree	8 / 3			
• Overvoltage category / insulating group	III / I			
Connection capacities				
• Flexible with end sleeve with plastic sleeve in mm ²	0.25 ... 6			
• Flexible with end sleeve without plastic sleeve in mm ²	0.25 ... 6			
• Flexible with two-wire connection end sleeve with plastic sleeve in mm ²	0.25 ... 1.5			
Stripped length in mm	12			
Plug gage (IEC 60947-1)	A5			
Insulation type	PA			
• Flammability class acc. to UL 94	V0			
Approval data (UL/CUL and CSA)				
• Rated voltage / current / cable sizes				
- UL/CUL: in V/A / AWG	Applied for			
- CSA: in V/A / AWG	Applied for			
Support rails/protective conductor busbars	--	See section <i>Support rails</i>	--	See section <i>Support rails</i>

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

8WH compact through-type terminals

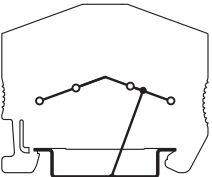
Selection and ordering data

Version	DT	Order No.	Price per PU	PU	PS*/ P. unit	PG
				Unit(s)	Unit(s)	
Terminal size 2.5 mm²						
	Compact through-type terminals, terminal size 2.5 mm², 2 clamping points - Terminal width 5.2 mm - C^{UL}_{US} - IEC 60947-7-1 - Rigid 0.08 - 4 mm² - Flexible 0.08 - 2.5 mm² - AWG 28-12 - I = 31 A - U = 800 V					
8WH2 500-0AF00						
Versions						
- Gray - Blue		C	8WH2 500-0AF00	1	50	044
		C	8WH2 500-0AF01	1	50	044
Accessories		Section	Page			
Covers, for terminal size 2.5 mm² and compact design		Accessories	12/57	C	8WH9 000-1JA00	100 50 044
	Compact through-type terminals, terminal size 2.5 mm², three clamping points - Terminal width 5.2 mm - C^{UL}_{US} - IEC 60947-7-1 - Rigid 0.08 - 4 mm² - Flexible 0.08 - 2.5 mm² - AWG 28-12 - I = 28 A - The total current through all connected conductors must not exceed the max. load current - U = 800 V - EN 50019 - Rigid 0.2 - 4 mm² - Flexible 0.2 - 2.5 mm² - AWG 24-12 - I = 21/25 A - The total current through all connected conductors must not exceed the max. load current - U = 550 V					
8WH2 503-0AF00						
Versions						
- Gray - Blue		C	8WH2 503-0AF00	1	50	044
		C	8WH2 503-0AF01	1	50	044
Accessories		Section	Page			
Covers, for terminal size 2.5 mm² and compact design		Accessories	12/57	C	8WH9 000-1JA00	100 50 044
	Compact through-type terminals, terminal size 2.5 mm², four clamping points - Terminal width 5.2 mm - C^{UL}_{US} - IEC 60947-7-1 - Rigid 0.08 - 4 mm² - Flexible 0.08 - 2.5 mm² - AWG 28-12 - I = 28 A - The total current through all connected conductors must not exceed the max. load current - U = 800 V - EN 50019 - Rigid 0.2 - 4 mm² - Flexible 0.2 - 2.5 mm² - AWG 24-12 - I = 20/25 A - U = 550 V					
8WH2 504-0AF00						
Versions						
- Gray - Blue		C	8WH2 504-0AF00	1	50	044
		C	8WH2 504-0AF01	1	50	044
Accessories		Section	Page			
Covers, for terminal size 2.5 mm² and compact design		Accessories	12/57	C	8WH9 000-1JA00	100 50 044

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

8WH compact through-type terminals

Version	DT	Order No.	Price per PU	PU	PS*/P. unit	PG
				Unit(s)	Unit(s)	
 8WH2 500-OCF07	C	8WH2 500-OCF07		1	50	044
Compact through-type PE terminals, terminal size 2.5 mm², 2 clamping points - Terminal width 5.2 mm  - IEC 60947-7-2 - Rigid 0.08 - 4 mm² - Flexible 0.08 - 2.5 mm² - AWG 28-12 - Green-yellow						
Accessories		Section	Page			
Covers, for terminal size 2.5 mm ² and compact design		Accessories	12/57	C	8WH9 000-1JA00	100 50 044
 8WH2 503-OCF07						
Compact through-type PE terminals, terminal size 2.5 mm² - Terminal width 5.2 mm  - IEC 60947-7-2 - Rigid 0.08 - 4 mm² - Flexible 0.08 - 2.5 mm² - AWG 28-12 - EN 50019 - Rigid 0.2 - 4 mm² - Flexible 0.2 - 2.5 mm² - AWG 24-12 - Green-yellow						
Versions						
• Three clamping points	C	8WH2 503-OCF07		1	50	044
• Four clamping points	C	8WH2 504-OCF07		1	50	044
Accessories		Section	Page			
Covers, for terminal size 2.5 mm ² and compact design		Accessories	12/57	C	8WH9 000-1JA00	100 50 044
 8WH2 504-OCF07						
 12_12677 8WH2 504-OCF07						
Terminal size 4 mm²						
 8WH2 500-0AG00						
Compact through-type terminals, terminal size 4 mm², 2 clamping points - Terminal width 6.2 mm  - IEC 60947-7-1 - Rigid 0.08 - 6 mm² - Flexible 0.08 - 4 mm² - AWG 28-10 - I = 38 A - U = 800 V						
Versions						
• Gray	C	8WH2 500-0AG00		1	50	044
• Blue	D	8WH2 500-0AG01		1	50	044
Accessories		Section	Page			
Covers, for terminal size 4 mm ² and compact design		Accessories	12/57	C	8WH9 003-1JA00	100 50 044

* You can order this quantity or a multiple thereof.

ALPHA FIX Terminal Blocks

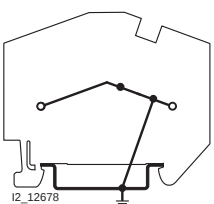
Terminals with Spring-Loaded Connection

8WH compact through-type terminals

Version	DT	Order No.	Price per PU	PU	PS*/P. unit	PG
				Unit(s)	Unit(s)	
 8WH2 503-0AG00 Compact through-type terminals, terminal size 4 mm², three clamping points - Terminal width 6.2 mm  - IEC 60947-7-1 - Rigid 0.08 - 6 mm² - Flexible 0.08 - 4 mm² - AWG 28-10 - I = 38 A - The total current through all connected conductors must not exceed the max. load current - U = 800 V - EN 50019 - Rigid 0.2 - 6 mm² - Flexible 0.2 - 4 mm² - AWG 24-10 - I = 20/25 A - U = 550 V						
Versions						
- Gray - Blue	C	8WH2 503-0AG00		1	50	044
	C	8WH2 503-0AG01		1	50	044
Accessories	Section	Page				
<i>Covers, for terminal size 4 mm² and compact design</i>	<i>Accessories</i>	12/57	C	8WH9 003-1JA00	100	50 044

 8WH2 504-0AG00 Compact through-type terminals, terminal size 4 mm², four clamping points - Terminal width 6.2 mm  - IEC 60947-7-1 - Rigid 0.08 - 6 mm² - Flexible 0.08 - 4 mm² - AWG 28-10 - I = 38 A - The total current through all connected conductors must not exceed the max. load current - U = 800 V - EN 50019 - Rigid 0.2 - 6 mm² - Flexible 0.2 - 4 mm² - AWG 24-10 - I = 20/25 A - U = 550 V						
Versions						
- Gray - Blue	C	8WH2 504-0AG00		1	50	044
	C	8WH2 504-0AG01		1	50	044
Accessories	Section	Page				
<i>Covers, for terminal size 4 mm² and compact design</i>	<i>Accessories</i>	12/57	C	8WH9 003-1JA00	100	50 044

 8WH2 500-0CG07 Compact through-type PE terminals, terminal size 4 mm², 2 clamping points - Terminal width 6.2 mm  - IEC 60947-7-2 - Rigid 0.08 - 6 mm² - Flexible 0.08 - 4 mm² - AWG 28-10 - Green-yellow	C	8WH2 500-0CG07		1	50	044
Accessories	Section	Page				
<i>Covers, for terminal size 4 mm² and compact design</i>	<i>Accessories</i>	12/57	C	8WH9 003-1JA00	100	50 044



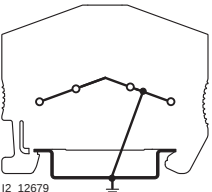
12_12678

8WH2 500-0CG07

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

8WH compact through-type terminals

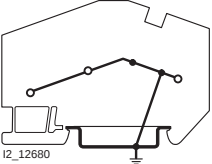
Version	DT	Order No.	Price per PU	PU Unit(s)	PS*/P. unit Unit(s)	PG
Compact through-type PE terminals, terminal size 4 mm² - Terminal width 6.2 mm • CUS • IEC 60947-7-2 - Rigid 0.08 - 6 mm² - Flexible 0.08 - 4 mm² - AWG 28-10 • EN 50019 - Rigid 0.2 - 6 mm² - Flexible 0.2 - 4 mm² - AWG 24-10 • Green-yellow						
 8WH2 503-0CG07						
 8WH2 504-0CG07						
 I2_12679 8WH2 504-0CG07						
Terminal size 6 mm²						
Compact through-type terminals, terminal size 6 mm², 2 clamping points - Terminal width 8.2 mm • IEC 60947-7-1 - Rigid 0.2 - 10 mm² - Flexible 0.2 - 6 mm² - AWG 24-8 - I = 52 A - U = 800 V						
 8WH2 500-0AH00						
Compact through-type terminals, terminal size 6 mm², three clamping points - Terminal width 8.2 mm • IEC 60947-7-1 - Rigid 0.2 - 10 mm² - Flexible 0.2 - 6 mm² - AWG 24-8 - I = 52 A - The total current through all connected conductors must not exceed the max. load current - U = 800 V						
 8WH2 503-0AH00						

* You can order this quantity or a multiple thereof.

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

8WH compact through-type terminals

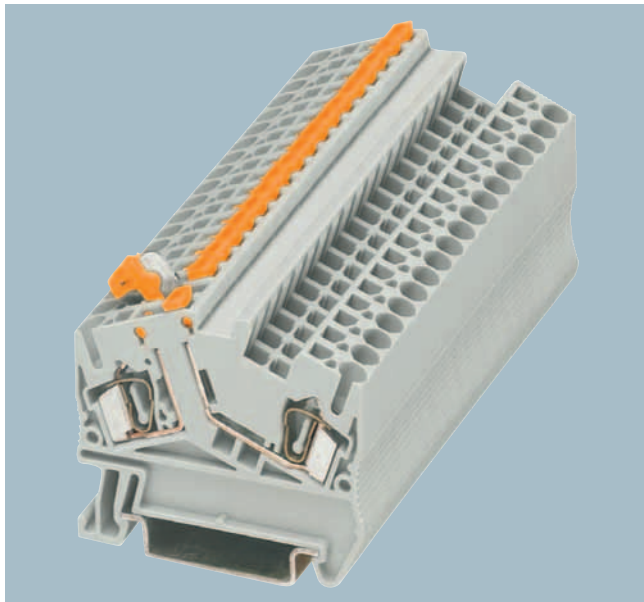
Version			DT	Order No.	Price per PU	PU	PS*/ P. unit	PG
						Unit(s)	Unit(s)	
 8WH2 500-0CH07			Compact through-type PE terminals, terminal size 6 mm² - Terminal width 8.2 mm - IEC 60947-7-2 - Rigid 0.2 - 10 mm² - Flexible 0.2 - 6 mm² - AWG 24-8 - Green-yellow					
Versions								
- Two clamping points - Three clamping points			C	8WH2 500-0CH07		1	50	044
			C	8WH2 503-0CH07		1	50	044
Accessories								
Compartment partitions, for terminal size 6 mm²								
Covers, for terminal size 6 mm²								
- For two clamping points and compact design								
- For three clamping points and compact design								
 8WH2 503-0CH07								
 8WH2 503-0CH07								
Accessories								
Compartment partitions, for terminal size 6 mm²			C	8WH9 070-0DA00		100	50	044
Covers								
Gray								
Versions								
For terminal size 2.5 mm² and compact design			C	8WH9 000-1JA00		100	50	044
For terminal size 4 mm² and compact design			C	8WH9 003-1JA00		100	50	044
For terminal size 6 mm² and compact design			C	8WH9 004-1JA00		100	50	044
For terminal size 6 mm² and three clamping points and compact design			C	8WH9 004-2JA00		100	50	044
 8WH9 000-1JA00								

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

8WH compact isolating blade terminals

Overview



The compact isolating blade terminals provide a test option for 2.3 mm Ø test plugs on both sides of the isolating point.

The double bridge slot also enables cross-connection to the standard two and three-conductor terminals.

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

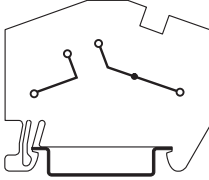
Technical specifications

	8WH2 500-6CF00
Dimensions	
• Width / length / width of cover in mm	5.2 / 51 / 2.2
• Height (NS 35/7.5 / NS 35/15) in mm	43 / 50.5
Technical specifications acc. to IEC/DIN VDE	
• Max. load current in A / cross-section in mm ²	16 / 4
• Maximum // rated data in A / mm ²	--
• Rated impulse withstand voltage in kV / pollution degree	6 / 3
• Overvoltage category / insulating group	III / I
Connection capacities	
• Flexible with end sleeve with plastic sleeve in mm ²	0.25 ... 2.5
• Flexible with end sleeve without plastic sleeve in mm ²	0.25 ... 2.5
• Flexible with two-wire connection end sleeve with plastic sleeve in mm ²	0.5
Stripped length in mm	10
Plug gage (IEC 60947-1)	A3
Insulation type	PA
• Flammability class acc. to UL 94	V0
Approval data (UL/CUL and CSA)	
• Rated voltage / current / cable sizes	
- UL/CUL: in V/A / AWG	600 / 16 / 24-12
- CSA: in V/A / AWG	--

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

8WH compact isolating blade terminals
Selection and ordering data

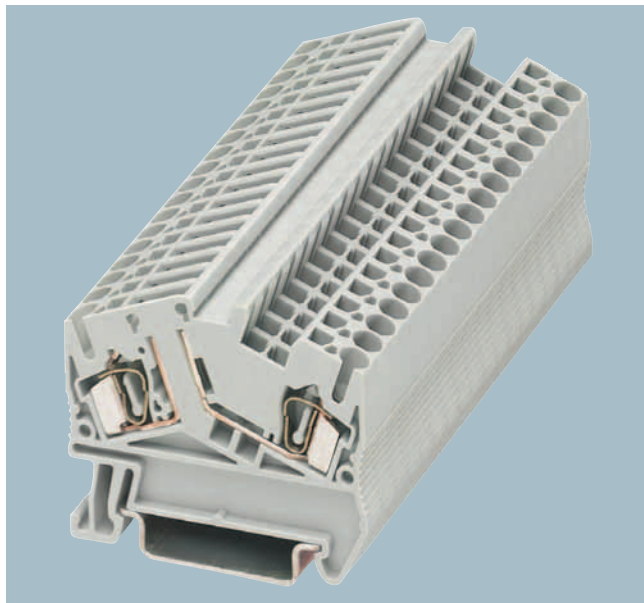
Version		DT	Order No.	Price per PU	PU	PS*/ P. unit	PG
					Unit(s)	Unit(s)	
Terminal size 2.5 mm²							
	Compact isolating blade terminals, terminal size 2.5 mm², with 2 clamping points • Gray • Terminal width 5.2 mm •  US • IEC 60947-7-1 - Rigid 0.08 - 4 mm² - Flexible 0.08 - 2.5 mm² - AWG 28-12 - I = 16 A - U = 400 V		C	8WH2 500-6CF00	1	50	044
	Accessories		Section	Page			
	Covers, for terminal size 2.5 mm² and compact design		Accessories	12/59	C	8WH9 000-1JA00	100 50 044
Accessories							
Covers, for terminal size 2.5 mm² and compact design			C	8WH9 000-1JA00	100	50	044
Gray							

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

8WH compact isolating terminals

Overview



The compact isolating terminals provide a test option for 2.3 mm Ø test plugs on both sides of the isolating point.

The double bridge slot also enables cross-connection to the standard two and three-conductor terminals.

The compact isolating terminal is used for holding:

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

Technical specifications

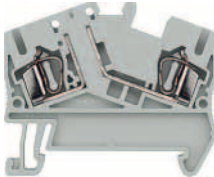
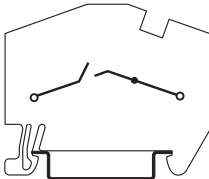
	8WH2 500-6AF00
Dimensions	
• Width / length / width of cover in mm	5.2 / 51 / 2.2
• Height (NS 35/7.5 / NS 35/15) in mm	43 / 50.5
Technical specifications acc. to IEC/DIN VDE	
• Max. load current in A / cross-section in mm²	16 / 4
• Rated impulse withstand voltage in kV / pollution degree	6 / 3
• Overvoltage category / insulating group	III / I
Connection capacities	
• Flexible with end sleeve with plastic sleeve in mm²	0.25 ... 2.5
• Flexible with end sleeve without plastic sleeve in mm²	0.25 ... 2.5
• Flexible with two-wire connection end sleeve with plastic sleeve in mm²	0.5
Stripped length in mm	10
Plug gage (IEC 60947-1)	A3
Insulation type	PA
• Flammability class acc. to UL 94	V0
Approval data (UL/CUL and CSA)	
• Rated voltage / current / cable sizes	
- UL/CUL: in V/A / AWG	300 / 16 / 24-12
- CSA: in V/A / AWG	--

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

8WH compact isolating terminals

Selection and ordering data

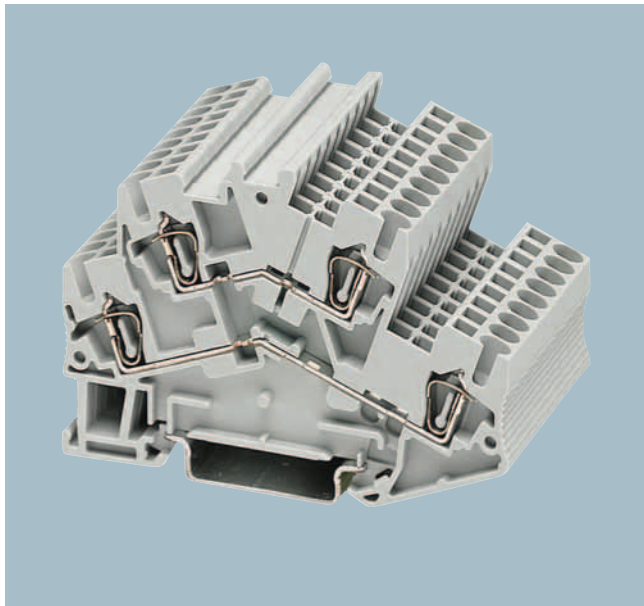
Version	DT	Order No.	Price per PU	PU	PS*/ P. unit	PG		
				Unit(s)	Unit(s)			
Terminal size 2.5 mm²		C	8WH2 500-6AF00	1	50	044		
 8WH2 500-6AF00 • Compact isolating terminals, terminal size 2.5 mm² • Gray • Terminal width 5.2 mm • C₁ 10 A • IEC 60947-7-1 - Rigid 0.08 - 4 mm² - Flexible 0.08 - 2.5 mm² - AWG 28-12 - Current and voltage are determined by the fitted plug - I = 16 A - U = 400 V								
Accessories		Section	Page					
 I2_12683 8WH2 500-6AF00 • Covers, for terminal size 2.5 mm² and compact design • Plug-in zone connectors - Isolating plugs - Through-type connectors - Fused connectors, without LED display - Component connectors		Accessories	12/61	C	8WH9 000-1JA00	100	50	044
		Accessories	12/61	C	8WH9 040-0DB04	1	50	044
		Accessories	12/61	C	8WH9 020-8AB00	1	50	044
		Accessories	12/61	C	8WH9 040-3DB08	1	10	044
		Accessories	12/61	C	8WH9 040-0BB00	1	10	044
Accessories		C	8WH9 000-1JA00	100	50	044		
 8WH9 000-1JA00 • Covers, for terminal size 2.5 mm² and compact design								
Plug-in zone connectors								
Versions								
 8WH9 040-0DB04 • Isolating plugs - Orange	C	8WH9 040-0DB04	1	50	044			
 8WH9 020-8AB00 • Through-type connectors - Gray - I_{max}: 16 A	C	8WH9 020-8AB00	1	50	044			
 8WH9 040-3DB08 • Fused connectors, without LED display - Black - I_{max}: 6.3 A Note - G fuse holders must be selected according to the max. power loss (heat dissipation) of the G fuse links. Depending on the application and installation method, the heating conditions must be tested in enclosed fuse holders. - Higher ambient temperatures add to the load of the fuse links. In this case, take the offset of the rated current into account.	C	8WH9 040-3DB08	1	10	044			
 8WH9 040-0BB00 • Component connectors - I_{max}: 6 A, depending on the power loss of the components, max. 1 W with single arrangement - Facility for inscription with ZBF 5	C	8WH9 040-0BB00	1	10	044			

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

8WH compact two-tier terminals

Overview



The product range of the two-tier terminals is rounded off by the compact two-tier version with nominal cross-sections 2.5 and 4 mm².

With the potentials routed in a 5.2 mm grid through two tiers, the compact two-tier terminals require 50 % less space in the control cabinet. The terminal also offers two integral bridge slots and two facilities for large inscriptions in the center of the terminal.

Technical specifications

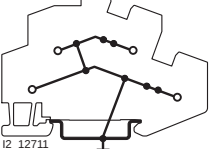
	8WH2 520-0AF00 8WH2 520-0AF01	8WH2 520-0CF07	8WH2 520-0AG00 8WH2 520-0AG01	8WH2 520-0CG07
Dimensions				
• Width / length / width of cover in mm	5.2 / 78 / 2.2	52 / 78 / 2.2	6.2 / 83.5 / 2.2	6.2 / 92.4 / 2.2
• Height (NS 35/7.5 / NS 35/15) in mm	54.5 / 62	54.5 / 62	47.5 / 55	54.5 / 62
Technical specifications acc. to IEC/DIN VDE				
• Max. load current in A / cross-section in mm ²	26 / 4	--	32 / 6	--
• Rated impulse withstand voltage in kV / pollution degree	6 / 3			
• Overvoltage category / insulating group	III / I			
Connection capacities				
• Flexible with end sleeve with plastic sleeve in mm ²	0.25 ... 2.5		0.25 ... 4	
• Flexible with end sleeve without plastic sleeve in mm ²	0.25 ... 2.5		0.25 ... 4	
• Flexible with two-wire connection end sleeve with plastic sleeve in mm ²	0.5		0.5 ... 1	
Stripped length in mm	10			
Plug gage (IEC 60947-1)	A3		A4	
Insulation type	PA			
• Flammability class acc. to UL 94	V0			
Approval data (UL/CUL and CSA)				
• Rated voltage / current / cable sizes				
- UL/CUL: in V/A / AWG	300 / 20 / 26-12	-- / -- / 26-12	Applied for	
- CSA: in V/A / AWG	--		Applied for	
Support rails/protective conductor busbars	--	See section <i>Support rails</i>	--	See section <i>Support rails</i>

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

8WH compact two-tier terminals

Selection and ordering data

Version	DT	Order No.	Price per PU	PU	PS*/P. unit	PG
				Unit(s)	Unit(s)	
Terminal size 2.5 mm²						
 8WH2 520-0AF00	Compact two-tier terminals, terminal size 2.5 mm² - Terminal width 5.2 mm 2-pole •  US - IEC 60947-7-1 - Rigid, 0.08 ... 4 mm² - Flexible, 0.08 ... 2.5 mm² - AWG 28-12 - I = 26 A - The total current through all connected conductors must not exceed the max. load current - U = 500 V					
	Versions					
	- Gray - Blue	C	8WH2 520-0AF00	1	50	044
		C	8WH2 520-0AF01	1	50	044
	Accessories	Section	Page			
Covers, for terminal size 2.5 mm ² and compact design		Accessories	12/64	C	8WH9 000-1KA00	100 50 044
 8WH2 520-0CF07	Compact PE two-tier terminals, terminal size 2.5 mm² - Terminal width 5.2 mm •  US - IEC 60947-7-2 - Rigid, 0.08 ... 4 mm² - Flexible, 0.08 ... 2.5 mm² - AWG 28-12 - Green-yellow					
	Versions					
		C	8WH2 520-0CF07	1	50	044
	Accessories					
	- Lateral mounting test plugs, for terminal width 5.2 mm - Covers, for terminal size 2.5 mm² and compact design	Accessories	12/64	C	8WH9 010-0EB02	1 10 044
 8WH2 520-0CF07	Accessories					
		Accessories	12/64	C	8WH9 000-1KA00	100 50 044
Terminal size 4 mm²						
 8WH2 520-0AG00	Compact two-tier terminals, terminal size 4 mm² - Terminal width 6.2 mm 2-pole - IEC 60947-7-1 - Rigid, 0.08 ... 6 mm² - Flexible, 0.08 ... 4 mm² - AWG 28-10 - I = 35 A - The total current through all connected conductors must not exceed the max. load current - U = 500 V					
	Versions					
	- Gray - Blue	C	8WH2 520-0AG00	1	50	044
		C	8WH2 520-0AG01	1	50	044
	Accessories	Section	Page			
Compartment partitions, for terminal sizes 1.5 to 4 mm ²		Accessories	12/64	C	8WH9 070-0BA00	100 50 044
Covers, for terminal size 4 mm ² and compact design		Accessories	12/64	C	8WH9 003-1KA00	100 50 044
 8WH2 520-0CG07	Compact PE two-tier terminals, terminal size 4 mm² - Terminal width 6.2 mm - IEC 60947-7-2 - Rigid 0.08 - 6 mm² - Flexible 0.08 - 4 mm² - AWG 28-10 - Green-yellow					
	Versions					
		C	8WH2 520-0CG07	1	50	044
	Accessories					
	- Compartment partitions, for terminal sizes 1.5 to 4 mm² - Lateral mounting test plugs, for terminal width 6.2 mm - Covers, for terminal size 4 mm² and compact design	Accessories	12/64	C	8WH9 070-0BA00	100 50 044
		Accessories	12/64	C	8WH9 010-0FB02	1 10 044
		Accessories	12/64	C	8WH9 003-1KA00	100 50 044

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

8WH compact two-tier terminals

Version	DT	Order No.	Price per PU	PU Unit(s)	PS*/P. unit Unit(s)	PG	
Accessories							
 8WH9 070-0BA00	Compartment partitions, for terminal size 1.5 to 4 mm²		C	8WH9 070-0BA00	100	50	044
 8WH9 010-0DB02	Lateral mounting test plugs						
	For individual assembly of test plug connectors						
	Versions						
	• For terminal width 5.2 mm	C	8WH9 010-0EB02	1	10	044	
• For terminal width 6.2 mm	C	8WH9 010-0FB02	1	10	044		
	Covers						
	Gray						
	Versions						
	• For terminal size 2.5 mm² and compact design	C	8WH9 000-1KA00	100	50	044	
• For terminal size 4 mm² and compact design	C	8WH9 003-1KA00	100	50	044		

Support rails/protective conductor busbars

Technical specifications

Support rail type							Excerpt from IEC 60947-7-2/EN 60947-7-2/VDE 0611 Part 3		
Width	Height	Thick- ness	Perforation type	Material	Surface	Rail profile	Short-circuit strength (Cu conductor) mm² 1)	Short-time withstand current, 1 s kA	Max. permissi- ble thermal rated current at PEN function A
mm	mm	mm							
35	7.5	1.5	Non-perforated	Steel	Chromated	Standard mounting rail, acc. to EN 60 715 – 35 x 7.5	16	1.92	1)
35	7.5	1.5	Perforated	Steel	Chromated	Standard mounting rail, acc. to EN 60715 3– 35 x 7.5	16	1.92	2)
35	7.5	1.5	Non-perforated	Steel	Galvanized	Stand. mounting rail, dimensions acc. to EN 60715 – 35 x 7.5	16	1.92	2)
35	7.5	1.5	Perforated	Steel	Galvanized	Standard mounting rail, dimensions acc. to EN 60715 – 35 x 7.5	16	1.92	2)
35	7.5	1.5	Non-perforated	V2A high-grade steel	Chromated	Standard mounting rail, dimensions acc. to EN 60715 – 35 x 7.5	16	1.92	2)
35	7.5	1.5	Non-perforated	Copper	Chromated	Standard mounting rail, dimensions acc. to EN 60715 – 35 x 7.5	50	6.0	150
35	7.5	1.5	Non-perforated	Aluminum	Chromated	Standard mounting rail, dimensions acc. to EN 60715 – 35 x 7.5	35	4.2	125
35	15	2.3	Non-perforated	Steel	Chromated	Standard mounting rail, acc. to EN 60 715 – 35 x 15	50	6.0	2)
35	15	1.5	Non-perforated	Steel	Chromated	Standard mounting rail, similar to EN 60715 – 35 x 15	35	4.2	2)
35	15	1.5	Perforated	Steel	Chromated	Standard mounting rail, similar to EN 60715 – 35 x 15	35	4.2	2)
35	15	1.5	Non-perforated	Steel	Galvanized	Standard mounting rail, similar to EN 60715 – 35 x 15	35	4.2	2)
35	15	1.5	Perforated	Steel	Galvanized	Standard mounting rail, similar to EN 60715 – 35 x 15	35	4.2	2)
35	15	1.5	Non-perforated	Copper	Chromated	Standard mounting rail, similar to EN 60715 – 35 x 15	95	11.4	232
35	15	1.5	Non-perforated	Aluminum	Chromated	Standard mounting rail, similar to EN 60715 – 35 x 15	70	8.4	192

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

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

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

General data on 8WA

Overview

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

Benefits

- Fast mounting
 - Simply snap on
 - Enclosed at both ends, 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
 - Screwless connection of neutral isolating terminal to N bar
- Small number of linking accessories
 - Screwless cross connection system consisting of only 3 accessories: Two-pin jumpers, link rails with one-pin plugs for terminal sizes 2.5, 4 and 6 mm².
- Uniform labeling plates on cards for the entire terminal range up to 16 mm².

Standards

EN 60664-1, EN 60999 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 to IEC 60529 and EN 50274 (except for those without covers or unconnected cable entries 10 mm² and 16 mm²). Through-type terminals are resistant to earthquakes according to IEC 60068-2-6.

Rated short-time withstand current

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

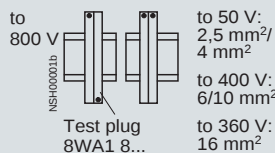
Colored terminal blocks

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

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

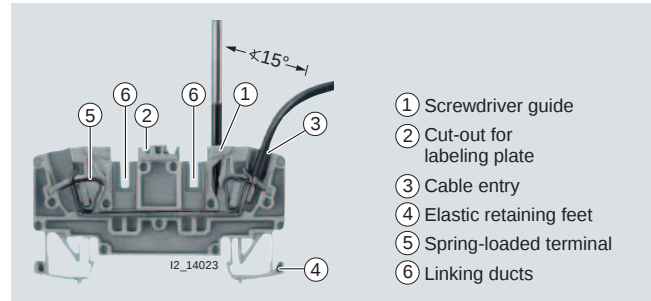


Design

The terminal blocks are insulated on both sides. End plates are therefore not required. The symmetrical design of the standard terminals prevents them from being snapped on the wrong way round. The insulating bodies up to and including terminal size 16 mm² are made of thermoplastic, polyamide 6.6 with a tracking resistance of CTI 600 according to DIN VDE 0303 Part 1.

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

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



8WA2 through-type terminal without screws, sectional view

Terminal size

The terminal size corresponds to the rated cross-section. According to 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 inserting a screwdriver, the conductor is inserted to the stop and is clamped tight after the screwdriver is removed. This ensures compliance with 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 is corrosion-proof and vibration-resistant.

Mounting

The terminals are snapped onto 35 mm support rails according to IEC 60715 TH35 and secured against movement with end retainers. A lateral mounting tolerance of 0.2 mm must be observed.

Connection of conductors

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. One conductor per clamping point can be connected. The cable entries are designed in such a way that the insulation of the rated conductor cross-section, and that of the next smaller cross-section cannot be caught in the 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.

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

General data on 8WA

Connection of aluminum conductors

Spring-loaded terminals are also suitable for solid aluminum conductors of up to 4 mm² when the normal preparation guidelines are complied with prior to connection, e.g. brushing and greasing.

It must also be taken into account that the rated uninterrupted currents will be lower due to the lower conductivity of aluminum:

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

Accessories

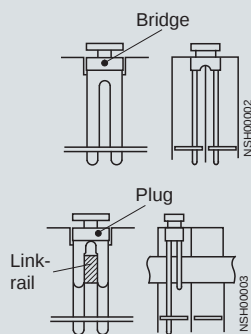
Note

8WA accessories can only be used for 8WA terminals.

Linking system

The two-pin jumper 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 linking ducts and the terminals are connected with the one-pin plugs.

Jumpers 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 insulation of the 8WA2 842 neutral busbar, the 8WA2 837 busbar end (8WA2 826 for Insta terminals) is inserted in the end retainer.

There are several options for labeling the end retainers: the 8WA1 806 end labeling plate, 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 x 6 mm neutral busbar.

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

For 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 mm².

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

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

Lockouts

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

10 x 3 mm neutral busbars and accessories

The 8WA2 843 busbar support is included in delivery with 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.

ALPHA FIX Terminal Blocks

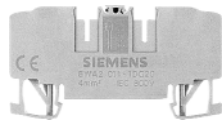
Terminals with Spring-Loaded Connection

8WA through-type terminals

Selection and ordering data

Version	DT	Order No.	Price per PU	PU	PS*/P. unit	PG
				Unit(s)	Unit(s)	
General details - Thermoplastic insulating body - Front connection with spring-loaded terminal 1-pole - Enclosed at both ends						
Note		Section	Page			
For labeling accessories see ...		8WA accessories	16/13			

Terminal size 2.5 mm²



8WA2 011-1DF20

Through-type terminals, terminal size 2.5 mm², two clamping points

- Rated uninterrupted current 24 A
- Rated insulation voltage 800 V
- Mounting width 5.2 mm
- Terminal height 28.6 mm
- Terminal length 60 mm
- AWG 28-14
- AWG 26-14

Versions

- Light gray
- Red
- Blue

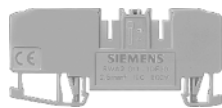
Accessories

- One-pin plugs, for terminal sizes 2.5 to 6 mm²
- Two-pin jumpers, for terminal sizes 2.5 to 6 mm²
- Retaining plates, for link rails, for terminal sizes 2.5 to 4 mm²
- Insulation plates, for terminal sizes 2.5 to 4 mm²
- Link rails, for terminal sizes 2.5 to 6 mm²
- Barriers, for terminal sizes 2.5 to 6 mm², for two clamping points

Section

Page

A	8WA2 011-1DF20	1	50	041
A	8WA2 011-1BF21	1	50	041
A	8WA2 011-1BF23	1	50	041
C	8WA2 832	1	50	041
C	8WA2 831	1	50/1000	041
C	8WA2 835	1	50	041
C	8WA2 836	1	50	041
C	8WA2 830	1	20	041
C	8WA2 811	1	50	041



8WA2 011-1DF30

Through-type terminals, terminal size 2.5 mm², with three clamping points

- Rated uninterrupted current 24 A
- Rated insulation voltage 800 V
- Mounting width 5.2 mm
- Terminal height 28.6 mm
- Terminal length 73.5 mm
- AWG 28-14
- AWG 26-14

Versions

- Light gray
- Blue

Accessories

- One-pin plugs, for terminal sizes 2.5 to 6 mm²
- Two-pin jumpers, for terminal sizes 2.5 to 6 mm²
- Retaining plates, for link rails, for terminal sizes 2.5 to 4 mm²
- Insulation plates, for terminal sizes 2.5 to 4 mm²
- Link rails, for terminal sizes 2.5 to 6 mm²
- Barriers, for terminal sizes 2.5 to 4 mm², for three or four clamping points

Section

Page

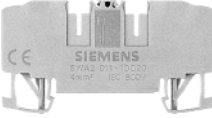
A	8WA2 011-1DF30	1	10	041
A	8WA2 011-1BF33	1	10	041
C	8WA2 832	1	50	041
C	8WA2 831	1	50/1000	041
C	8WA2 835	1	50	041
C	8WA2 836	1	50	041
C	8WA2 830	1	20	041
C	8WA2 813	1	50	041

12

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

8WA through-type terminals

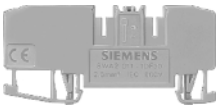
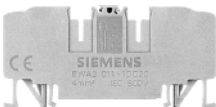
Version	DT	Order No.	Price per PU	PU	PS*/P. unit	PG
				Unit(s)	Unit(s)	
 8WA2 011-1DF40	Through-type terminals, terminal size 2.5 mm², with four clamping points, single-pole - Rated uninterrupted current 24 A - Rated insulation voltage 800 V - Mounting width 5.2 mm - Terminal height 28.6 mm - Terminal length 87 mm - UL AWG 28-14 - CE AWG 26-14					
	Versions					
	• Light gray	A	8WA2 011-1DF40	1	10	041
	• Blue	C	8WA2 011-1BF43	1	10	041
	Accessories	Section	Page			
	• One-pin plugs, for terminal sizes 2.5 to 6 mm ²	Accessories	12/71	C	8WA2 832	1 50 041
	• Two-pin jumpers, for terminal sizes 2.5 to 6 mm ²	Accessories	12/71	C	8WA2 831	1 50/1000 041
	• Retaining plates, for link rails, for terminal sizes 2.5 to 4 mm ²	Accessories	12/71	C	8WA2 835	1 50 041
	• Insulation plates, for terminal sizes 2.5 to 4 mm ²	Accessories	12/71	C	8WA2 836	1 50 041
	• Link rails, for terminal sizes 2.5 to 6 mm ²	Accessories	12/71	C	8WA2 830	1 20 041
	• Barriers, for terminal sizes 2.5 to 4 mm ² , for three or four clamping points	Accessories	12/71	C	8WA2 813	1 50 041
 8WA2 011-1PF30  8WA2 011-1PF40	Through-type PE terminals, terminal size 2.5 mm² - Mounting width 5.2 mm - Terminal height 28.6 mm - With connection to standard mounting rail - Green-yellow					
	Versions					
	• With two clamping points - Terminal length 60 mm	A	8WA2 011-1PF20	1	50	041
	• With three clamping points - Terminal length 73.5 mm	A	8WA2 011-1PF30	1	10	041
	• With four clamping points - Terminal length 87 mm	A	8WA2 011-1PF40	1	20	041
Terminal size 4 mm²						
 8WA2 011-1DG20	Through-type terminals, terminal size 4 mm², with two clamping points - Rated uninterrupted current 32 A - Rated insulation voltage 800 V - Mounting width 6.2 mm - Terminal height 28.6 mm - Terminal length 65 mm - UL AWG 28-12 - CE AWG 26-12					
	Versions					
	• Light gray	A	8WA2 011-1DG20	1	50	041
	• Red	C	8WA2 011-1BG21	1	50	041
	• Blue	C	8WA2 011-1BG23	1	50	041
	Accessories	Section	Page			
	• One-pin plugs, for terminal sizes 2.5 to 6 mm ²	Accessories	12/71	C	8WA2 832	1 50 041
	• Two-pin jumpers, for terminal sizes 2.5 to 6 mm ²	Accessories	12/71	C	8WA2 831	1 50/1000 041
	• Retaining plates, for link rails, for terminal sizes 2.5 to 4 mm ²	Accessories	12/71	C	8WA2 835	1 50 041
	• Insulation plates, for terminal sizes 2.5 to 4 mm ²	Accessories	12/71	C	8WA2 836	1 50 041
	• Link rails, for terminal sizes 2.5 to 6 mm ²	Accessories	12/71	C	8WA2 830	1 20 041
	• Barriers, for terminal sizes 2.5 to 6 mm ² , for two clamping points	Accessories	12/71	C	8WA2 811	1 50 041

* You can order this quantity or a multiple thereof.

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

8WA through-type terminals

Version			DT	Order No.	Price per PU	PU	PS*/ P. unit	PG
						Unit(s)	Unit(s)	
 8WA2 011-1DG30			Through-type terminals, terminal size 4 mm², with three clamping points - Rated uninterrupted current 32 A - Rated insulation voltage 800 V - Mounting width 6.2 mm - Terminal height 28.6 mm - Terminal length 79.5 mm •  AWG 28-12 •  AWG 26-12					
Versions								
- Light gray - Blue			A	8WA2 011-1DG30		1	10	041
			C	8WA2 011-1BG33		1	10	041
Accessories		Section	Page					
One-pin plugs, for terminal sizes 2.5 to 6 mm²		Accessories	12/71	C	8WA2 832	1	50	041
Two-pin jumpers, for terminal sizes 2.5 to 6 mm²		Accessories	12/71	C	8WA2 831	1	50/1000	041
Retaining plates, for link rails, for terminal sizes 2.5 to 4 mm²		Accessories	12/71	C	8WA2 835	1	50	041
Insulation plates, for terminal sizes 2.5 to 4 mm²		Accessories	12/71	C	8WA2 836	1	50	041
Link rails, for terminal sizes 2.5 to 6 mm²		Accessories	12/71	C	8WA2 830	1	20	041
Barriers, for terminal sizes 2.5 to 4 mm², for three or four clamping points		Accessories	12/71	C	8WA2 813	1	50	041
 8WA2 011-1PG30			Through-type PE terminals, terminal size 4 mm² - Mounting width 6.2 mm - Terminal height 28.6 mm - With connection to standard mounting rail - Green-yellow					
Versions								
- With two clamping points - Terminal length 65 mm - With three clamping points - Terminal length 79.5 mm			A	8WA2 011-1PG20		1	50	041
			A	8WA2 011-1PG30		1	10	041
Terminal size 6 mm²								
 8WA2 011-1DH20			Through-type terminals, terminal size 6 mm², with two clamping points - Rated uninterrupted current 41 A - Rated insulation voltage 800 V - Mounting width 8.2 mm - Terminal height 31 mm - Terminal length 70 mm •  AWG 24-10 •  AWG 24-10					
Versions								
- Light gray - Blue			A	8WA2 011-1DH20		1	50	041
			C	8WA2 011-1BH23		1	50	041
Accessories		Section	Page					
One-pin plugs, for terminal sizes 2.5 to 6 mm²		Accessories	12/71	C	8WA2 832	1	50	041
Two-pin jumpers, for terminal sizes 2.5 to 6 mm²		Accessories	12/71	C	8WA2 831	1	50/1000	041
Retaining plates, for link rails, for terminal size 6 mm²		Accessories	12/71	C	8WA2 844	1	50	041
Insulation plates, for terminal size 6 mm²		Accessories	12/71	C	8WA2 845	1	50	041
Link rails, for terminal sizes 2.5 to 6 mm²		Accessories	12/71	C	8WA2 830	1	20	041
Barriers, for terminal sizes 2.5 to 6 mm², for two clamping points		Accessories	12/71	C	8WA2 811	1	50	041
 8WA2 011-1PH20			A	8WA2 011-1PH20		1	50	041
Through-type PE terminals, terminal size 6 mm², with two clamping points - Mounting width 8.2 mm - Terminal height 31 mm - Terminal length 70 mm - With connection to standard mounting rail - Green-yellow								

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

8WA through-type terminals

Version			DT	Order No.	Price per PU	PU	PS*/ P. unit	PG
						Unit(s)	Unit(s)	
Terminal size 10 mm²								
 8WA2 011-1DJ20	Through-type terminals, terminal size 10 mm², with two clamping points							
	- Rated uninterrupted current 57 A - Rated insulation voltage 800 V - Mounting width 10 mm - Terminal height 38 mm - Terminal length 86 mm - AWG 24-8							
	Versions							
	- Light gray - Blue			C	8WA2 011-1DJ20	1	20	041
				C	8WA2 011-1BJ23	1	20	041
	Accessories	Section	Page					
	One-pin plugs, for terminal sizes 10 to 16 mm²	Accessories	12/71	C	8WA2 852	1	50	041
	Two-pin jumpers, for terminal sizes 10 to 16 mm²	Accessories	12/71	C	8WA2 851	1	50	041
	Link rails, for terminal sizes 10 to 16 mm²	Accessories	12/71	D	8WA2 853	1	5	041
	Barriers, for terminal sizes 10 to 16 mm², for two clamping points	Accessories	12/71	C	8WA2 817	1	50	041
 8WA2 011-1PJ20	Through-type PE terminals, terminal size 10 mm², with two clamping points			C	8WA2 011-1PJ20	1	20	041
	- Green-yellow - Mounting width 10 mm - Terminal height 38 mm - Terminal length 86 mm - With connection to standard mounting rail							
	Accessories	Section	Page					
	Two-pin jumpers, PE/ground/N function, for terminal sizes 10 to 16 mm²	Accessories	12/71	C	8WA2 854	1	20/500	041
Terminal size 16 mm²								
 8WA2 011-1DK20	Through-type terminals, terminal size 16 mm², with two clamping points							
	- Rated uninterrupted current 76 A - Rated insulation voltage 800 V - Mounting width 12 mm - Terminal height 38 mm - Terminal length 89.4 mm - AWG 24-6							
	Versions							
	- Light gray - Blue			A	8WA2 011-1DK20	1	20	041
				C	8WA2 011-1BK23	1	20	041
	Accessories	Section	Page					
	One-pin plugs, for terminal sizes 10 to 16 mm²	Accessories	12/71	C	8WA2 852	1	50	041
	Two-pin jumpers, for terminal sizes 10 to 16 mm²	Accessories	12/71	C	8WA2 851	1	50	041
	Link rails, for terminal sizes 10 to 16 mm²	Accessories	12/71	D	8WA2 853	1	5	041
	Barriers, for terminal sizes 10 to 16 mm², for two clamping points	Accessories	12/71	C	8WA2 817	1	50	041
 8WA2 011-1PK20	Through-type PE terminals, terminal size 16 mm², with two clamping points			C	8WA2 011-1PK20	1	20	041
	- Green-yellow - Mounting width 12 mm - Terminal height 38 mm - Terminal length 89.4 mm - With connection to standard mounting rail							
	Accessories	Section	Page					
	Two-pin jumpers, PE/ground/N function, for terminal sizes 10 to 16 mm²	Accessories	12/71	C	8WA2 854	1	20/500	041

* You can order this quantity or a multiple thereof.

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

8WA through-type terminals

Version		DT	Order No.	Price per PU	PU	PS*/P. unit	PG
					Unit(s)	Unit(s)	
Accessories							
One-pin plugs Black							
Versions							
- For terminal sizes 2.5 to 6 mm² - Rated uninterrupted current 32 A - Used together with <i>link rails</i>, for terminal sizes 2.5 to 6 mm² - One-pin plugs, for terminal sizes 10 to 16 mm² - Rated uninterrupted current 76 A - Used together with <i>link rails</i>, for terminal sizes 10 to 16 mm²		C	8WA2 832		1	50	041
		C	8WA2 852		1	50	041
							
Two-pin jumpers							
- Light gray - For use without link rail							
Versions							
- For terminal sizes 2.5 to 6 mm² - Rated uninterrupted current 32 A - For terminal sizes 10 to 16 mm² - Rated uninterrupted current 76 A		C	8WA2 831		1	50/1000	041
		C	8WA2 851		1	50	041
Two-pin jumpers, PE/ground/N function, for terminal sizes 10 to 16 mm²		C	8WA2 854		1	20/500	041
- Yellow - Rated uninterrupted current 76 A - For use without link rail							
							
Retaining plates for link rails							
- Light gray 100 mm long							
Versions							
- For terminal sizes 2.5 to 4 mm² - For terminal size 6 mm²		C	8WA2 835		1	50	041
		C	8WA2 844		1	50	041
							
Insulation plates							
Yellow							
Versions							
- For terminal sizes 2.5 to 4 mm² - For terminal size 6 mm²		C	8WA2 836		1	50	041
		C	8WA2 845		1	50	041
							
Link rails							
500 mm long - Used together with <i>one-pin plugs</i>							
Versions							
- For terminal sizes 2.5 to 6 mm² - Rated uninterrupted current 32 A - For terminal sizes 10 to 16 mm² - Rated uninterrupted current 76 A		C	8WA2 830		1	20	041
		D	8WA2 853		1	5	041
							
Barriers							
Yellow							
Versions							
- For terminal sizes 2.5 to 6 mm², for two clamping points - For terminal sizes 2.5 to 4 mm², for three or four clamping points - For terminal size 4 mm², for two-tier terminals - For terminal sizes 10 to 16 mm², for two clamping points		C	8WA2 811		1	50	041
		C	8WA2 813		1	50	041
		C	8WA2 812		1	50	041
		C	8WA2 817		1	50	041
							
							
							

* You can order this quantity or a multiple thereof.

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

8WA neutral isolating terminals

Selection and ordering data

Version	DT	Order No.	Price per PU	PU	PS*/P. unit	PG
				Unit(s)	Unit(s)	
General details - Thermoplastic insulating body - Front connection with spring-loaded terminal 1-pole with one clamping point - Enclosed at both ends - Neutral busbar for 10 x 3 mm						
Note	Section	Page				
For labeling accessories see ...	8WA Accessories	16/13				

Terminal size 4 mm²



8WA2 011-1NG23

Neutral isolating terminals, terminal size 4 mm²

- Blue
- Rated uninterrupted current 32 A
- Rated insulation voltage 400 V
- Mounting width 6.2 mm
- Terminal height 31 mm
- Terminal length 68.5 mm
- AWG 28-12
- AWG 26-12
- Isolating distance
- Without slot for comb

Accessories	Section	Page				
Feeder terminals, for neutral busbars, for terminal size up to 4 mm ²	Accessories	12/73	C	8WA2 867	1	50 041
Feeder terminals, for neutral isolating terminals, for terminal sizes 4 to 16 mm ²	Accessories	12/73	D	8WA2 011-1NK23	1	20 041
Neutral busbars 10 mm x 3 mm	Accessories	12/73	A	8WA2 842	1	1 041
Neutral busbar ends, for terminal sizes 2.5 to 16 mm ²	Accessories	12/73	C	8WA2 837	1	50 041
Neutral busbar supports	Accessories	12/73	C	8WA2 843	1	50 041
Lockouts	Accessories	12/74	D	8WA2 848	1	50 041

Terminal size 6 mm²

Neutral isolating terminals, terminal size 6 mm²

- Blue
- Rated uninterrupted current 41 A
- Rated insulation voltage 400 V
- AWG 24-10
- AWG 24-10
- without slot for comb

Versions						
Mounting width 8.2 mm, isolating distance - Terminal height 31 mm - Terminal length 71 mm			C	8WA2 011-1NH23	1	50 041
Mounting width 10 mm - High Insta terminal level, for mixing standard and Insta terminals on the standard mounting rail, isolating distance - Terminal height 37 mm - Terminal length 70 mm			C	8WA2 011-3JH10	1	10 041
Accessories	Section	Page				
Feeder terminals, for neutral busbars, for terminal size up to 25 mm ²	Accessories	12/73	C	8WA2 868	1	50 041
Feeder terminals, for neutral isolating terminals, for terminal sizes 4 to 16 mm ²	Accessories	12/73	D	8WA2 011-1NK23	1	20 041
Neutral busbar ends, for terminal sizes 2.5 to 16 mm ²	Accessories	12/73	C	8WA2 837	1	50 041
Neutral busbar supports	Accessories	12/73	C	8WA2 843	1	50 041



8WA2 011-1NH23

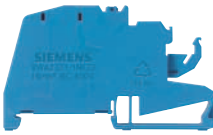


8WA2 011-3JH10

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

8WA neutral isolating terminals

Version	DT	Order No.	Price per PU	PU	PS*/P. unit	PG		
				Unit(s)	Unit(s)			
Terminal size 16 mm²								
 8WA2 011-1NK20		Neutral isolating terminals, terminal size 16 mm² • Blue • Rated uninterrupted current 76 A • Rated insulation voltage 400 V • Mounting width 12 mm • Terminal height 38 mm • Terminal length 89.4 mm •  AWG 24-6 • Isolating distance	D	8WA2 011-1NK20	1	20	041	
Accessories		Section	Page					
• One-pin plugs, for terminal sizes 10 to 16 mm²		Accessories	12/73	C	8WA2 852	1	50	041
• Two-pin jumpers, for terminal sizes 10 to 16 mm²		Accessories	12/73	C	8WA2 851	1	50	041
• Feeder terminals, for neutral busbars, for terminal size up to 25 mm²		Accessories	12/73	C	8WA2 868	1	50	041
• Feeder terminals, for neutral isolating terminals, for terminal sizes 4 to 16 mm²		Accessories	12/73	D	8WA2 011-1NK23	1	20	041
• Neutral busbar ends, for terminal sizes 2.5 to 16 mm²		Accessories	12/73	C	8WA2 837	1	50	041
• Test plugs		Accessories	12/74	D	8WA1 868	1	10	041
• Link rails, for terminal sizes 10 to 16 mm²		Accessories	12/74	D	8WA2 853	1	5	041
Accessories								
 8WA2 832		One-pin plugs • For bridging with link rail • Black						
Versions								
• For terminal sizes 2.5 to 6 mm² - Rated uninterrupted current 32 A - Used together with <i>link rails</i>, for terminal sizes 2.5 to 6 mm²			C	8WA2 832	1	50	041	
• One-pin plugs, for terminal sizes 10 to 16 mm² - Rated uninterrupted current 76 A - Used together with <i>link rails</i>, for terminal sizes 10 to 16 mm²			C	8WA2 852	1	50	041	
 8WA2 831		Two-pin jumpers • Light gray • For use without link rail						
Versions								
• For terminal sizes 2.5 to 6 mm² - Rated uninterrupted current 32 A			C	8WA2 831	1	50/1000	041	
• For terminal sizes 10 to 16 mm² - Rated uninterrupted current 76 A			C	8WA2 851	1	50	041	
 8WA2 870 / 868 / 867		Feeder terminals, for neutral busbars • Bare • For 10 × 3 mm and 6 × 6 mm neutral busbars						
Versions								
• For terminal size up to 4 mm²			C	8WA2 867	1	50	041	
• For terminal size up to 25 mm²			C	8WA2 868	1	50	041	
• For terminal sizes up to 35 mm²			C	8WA2 870	1	50	041	
 8WA2 011-1NK23		Feeder terminals, for neutral isolating terminals, for terminal size 4 to 16 mm² • Blue • Rated uninterrupted current 68 A • Rated insulation voltage 800 V • Terminal height 38 mm • Terminal length 74 mm • With screw terminals (delivery includes the 8WA2 843 neutral busbar support)	D	8WA2 011-1NK23	1	20	041	
 8WA2 842		Neutral busbars 10 mm x 3 mm • Tin-plated • 1000 mm long	A	8WA2 842	1	1	041	
 8WA2 837		Neutral busbar ends, for terminal sizes 2.5 to 16 mm² • Blue • For neutral busbar 10 × 3 mm • For insertion into end retainer	C	8WA2 837	1	50	041	
 8WA2 843		Neutral busbar supports • Blue • Loose • For neutral isolating terminals	C	8WA2 843	1	50	041	

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

8WA neutral isolating terminals

	Version	DT	Order No.	Price per PU	PU Unit(s)	PS*/ P. unit Unit(s)	PG
	Test plugs Red	D	8WA1 868		1	10	041
8WA1 868							
	Lockouts Yellow	D	8WA2 848		1	50	041
8WA2 848							
	Link rails • For bridging • 500 mm long • Used together with <i>one-pin plugs</i>						
	Versions						
	• For terminal sizes 2.5 to 6 mm ² - Rated uninterrupted current 32 A	C	8WA2 830		1	20	041
	• For terminal sizes 10 to 16 mm ² - Rated uninterrupted current 76 A	D	8WA2 853		1	5	041

8WA two-tier terminals

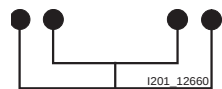
Selection and ordering data

	Version	DT	Order No.	Price per PU	PU Unit(s)	PS*/ P. unit Unit(s)	PG
	General details • Thermoplastic insulating body • Front connection, spring loaded • Enclosed at both ends						
	Note	Section	Page				
	For labeling accessories see ...	Accessories	16/13				

Terminal size 4 mm²



8WA2 011-2DG40



8WA2 011-2DG40

Two-tier terminals, terminal size 4 mm², 1-pole

- Rated uninterrupted current 32 A
- Rated insulation voltage 800 V
- Mounting width 6.2 mm
- Terminal height 45.5 mm
- Terminal length 88.2 mm
-  AWG 28-12
-  AWG 26-12
- With 1 x three clamping points
- Light gray

Accessories	Section	Page					
• One-pin plugs, for terminal sizes 2.5 to 6 mm ²	Accessories	12/75	C	8WA2 832	1	50	041
• Two-pin jumpers, for terminal sizes 2.5 to 6 mm ²	Accessories	12/75	C	8WA2 831	1	50/1000	041
• Retaining plates, for link rails, for terminal sizes 2.5 to 4 mm ²	Accessories	12/75	C	8WA2 835	1	50	041
• Label holders, for terminal sizes 2.5 to 16 mm ² (included in delivery with the two-tier terminals, can also be used for through-type terminals)	Accessories	12/75	C	8WA2 850	1	50	041
• Insulation plates, for terminal sizes 2.5 to 4 mm ²	Accessories	12/75	C	8WA2 836	1	50	041
• Link rails, for terminal sizes 2.5 to 6 mm ²	Accessories	12/75	C	8WA2 830	1	20	041
• Barriers, for terminal size 4 mm ² , for two-tier terminals	Accessories	12/75	C	8WA2 812	1	50	041

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

8WA two-tier terminals

Version			DT	Order No.	Price per PU	PU Unit(s)	PS*/P. unit Unit(s)	PG
 8WA2 011-2DG20								
Two-tier terminals, terminal size 4 mm², 2-pole - Rated uninterrupted current 32 A - Rated insulation voltage 690 V - Mounting width 6.2 mm - Terminal height 45.5 mm - Terminal length 88.2 mm • AWG 28-12 • AWG 26-12 - With 2 x two clamping points								
Versions								
- Light gray - Delivery includes two label holders - 2 more can be fitted if required - Blue			A	8WA2 011-2DG20		1	50	041
			C	8WA2 011-2BG23		1	50	041
Accessories								
One-pin plugs, for terminal sizes 2.5 to 6 mm²								
Accessories								
12/75			C	8WA2 832		1	50	041
Two-pin jumpers, for terminal sizes 2.5 to 6 mm²								
Accessories								
12/75			C	8WA2 831		1	50/1000	041
Retaining plates, for link rails, for terminal sizes 2.5 to 4 mm²								
Accessories								
12/75			C	8WA2 835		1	50	041
- Label holders, for terminal sizes 2.5 to 16 mm² (included in delivery with the two-tier terminals, can also be used for through-type terminals)								
Accessories								
12/75			C	8WA2 850		1	50	041
Insulation plates, for terminal sizes 2.5 to 4 mm²								
Accessories								
12/75			C	8WA2 836		1	50	041
Link rails, for terminal sizes 2.5 to 6 mm²								
Accessories								
12/75			C	8WA2 830		1	20	041
Barriers, for terminal size 4 mm², for two-tier terminals								
Accessories								
12/75			C	8WA2 812		1	50	041

Accessories



8WA2 832

One-pin plugs, for terminal sizes 2.5 to 6 mm²

- For bridging with link rail
- Black
- Rated uninterrupted current 32 A



8WA2 831

Two-pin jumpers, for terminal sizes 2.5 to 6 mm²

- Light gray
- Rated uninterrupted current 32 A
- For use without link rail



8WA2 835

Retaining plates, for link rails, for terminal sizes 2.5 to 4 mm²

- Light gray
- 100 mm long



8WA2 850

Label holders, for terminal sizes 2.5 to 16 mm²

- Light gray
- Without label



8WA2 836

Insulation plates, for terminal sizes 2.5 to 4 mm²

Yellow



8WA2 812

Link rails, for terminal sizes 2.5 to 6 mm²

- For bridging
- 500 mm long
- Rated uninterrupted current 32 A

Barriers, for terminal size 4 mm², for two-tier terminals

Yellow

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

8WA fuse terminals

Overview

Fuse terminals are used to protect control circuits against short-circuit.

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

Fuse terminals are positive opening fuse-disconnectors.

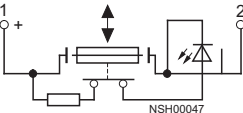
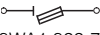
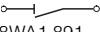
The fuse links must be replaced at zero voltage.

Finger safety is ensured in both closed and open positions.

The LED indicates the status of the disconnected fuse (residual current from 2 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 × 3 mm copper busbar. The fuse terminal can therefore be combined with other terminals of a branch to form a group.

Selection and ordering data

Version	DT	Order No.	Price per PU	PU Unit(s)	PS*/P. unit Unit(s)	PG
General details - Thermoplastic insulating body - Front connection with spring-loaded terminal - Enclosed at both ends						
Terminal size 4 mm²						
 8WA2 011-1SG20						
 8WA2 011-1SG20						
Fuse terminals, terminal size 4 mm² - Light gray - Rated uninterrupted current 6.3 A (when using fuses) - Mounting width 10 mm - Terminal height 32.5 mm - Terminal length 73.5 mm - Screwless						
Versions						
• Rated insulation voltage 800 V	C	8WA2 011-1SG20		1	10	041
• Rated insulation voltage 24/250 V, with LED, 24 V AC/DC	C	8WA2 011-1SG21		1	10	041
• Rated insulation voltage 48/250 V, with LED, 48 V AC/DC	C	8WA2 011-1SG22		1	10	041
• Rated insulation voltage 230/250 V, with LED, 230 V AC/DC	C	8WA2 011-1SG23		1	10	041
Accessories						
G fuse links						
• Quick, high breaking capacity: 1.5 kA						
- Rated uninterrupted current 1 A	Accessories	12/76	D	8WA1 822-7EF16	1	10/200 041
- Rated uninterrupted current 1.6 A	Accessories	12/76	D	8WA1 822-7EF18	1	10 041
- Rated uninterrupted current 2.5 A	Accessories	12/76	D	8WA1 822-7EF21	1	10 041
- Rated uninterrupted current 4 A	Accessories	12/76	D	8WA1 822-7EF23	1	10 041
- Rated uninterrupted current 6.3 A	Accessories	12/76	D	8WA1 822-7EF25	1	10 041
• Slow, low breaking capacity: 35 A at $I_n \leq 2.5 A$, $10 \times I_n$ at $I_n > 2.5 V$						
- Rated uninterrupted current 1 A	Accessories	12/76	D	8WA1 822-7EF76	1	10 041
- Rated uninterrupted current 1.6 A	Accessories	12/76	D	8WA1 822-7EF78	1	10 041
- Rated uninterrupted current 2.5 A	Accessories	12/76	D	8WA1 822-7EF81	1	10 041
- Rated uninterrupted current 4 A	Accessories	12/76	D	8WA1 822-7EF83	1	10 041
- Rated uninterrupted current 6.3 A	Accessories	12/76	D	8WA1 822-7EF85	1	10 041
• Bridging links	Accessories	12/76	D	8WA1 891	1	10 041
Accessories						
 8WA1 822-7EF16						
 8WA1 822-7EF16						
G fuse links - IEC 60127-2, DIN VDE 0820 Part 22 - Rated insulation voltage 250 V						
Versions						
• Quick, high breaking capacity: 1.5 kA						
- Rated uninterrupted current 1 A	D	8WA1 822-7EF16		1	10/200	041
- Rated uninterrupted current 1.6 A	D	8WA1 822-7EF18		1	10	041
- Rated uninterrupted current 2.5 A	D	8WA1 822-7EF21		1	10	041
- Rated uninterrupted current 4 A	D	8WA1 822-7EF23		1	10	041
- Rated uninterrupted current 6.3 A	D	8WA1 822-7EF25		1	10	041
• Slow, low breaking capacity: 35 A at $I_n \leq 2.5 A$, $10 \times I_n$ at $I_n > 2.5 V$						
- Rated uninterrupted current 1 A	D	8WA1 822-7EF76		1	10	041
- Rated uninterrupted current 1.6 A	D	8WA1 822-7EF78		1	10	041
- Rated uninterrupted current 2.5 A	D	8WA1 822-7EF81		1	10	041
- Rated uninterrupted current 4 A	D	8WA1 822-7EF83		1	10	041
- Rated uninterrupted current 6.3 A	D	8WA1 822-7EF85		1	10	041
Bridging links 2 mm × 25 mm - Rated uninterrupted current 16 A (when using the bridging link) - Rated insulation voltage 800 V						
 8WA1 891						
 8WA1 891						

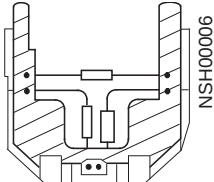
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ALPHA FIX Terminal Blocks

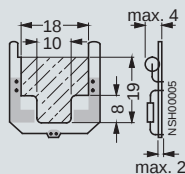
Terminals with Spring-Loaded Connection

8WA terminals for components

Selection and ordering data

Version	DT	Order No.	Price per PU	PU	PS*/ P. unit	PG		
				Unit(s)	Unit(s)			
General details - Thermoplastic insulating body - Front connection with spring-loaded terminal - Enclosed at both ends								
Terminal size 4 mm²								
 8WA2 011-1SG28	Terminals for components, terminal size 4 mm² - Light gray - Rated uninterrupted current 6.3 A - Rated insulation voltage 500 V to the next terminal - Mounting width 10 mm - Terminal height 41.5 mm - Terminal length 79.5 mm - Screwless - For self-fitting with components		C	8WA2 011-1SG28	1	5	041	
	Accessories	Section	Page					
	• One-pin plugs, for terminal sizes 2.5 to 6 mm²	Accessories	12/77	C	8WA2 832	1	50	041
	• Two-pin jumpers, for terminal sizes 2.5 to 6 mm²	Accessories	12/77	C	8WA2 831	1	50/1000	041
	• Link rails, for terminal sizes 2.5 to 6 mm²	Accessories	12/77	C	8WA2 830	1	20	041
 8WA1 822-7EE00	Plugs, for "terminals for components, terminal size 4 mm²" - Light gray - Rated uninterrupted current 6.3 A / 0.65 W - Mounting width 10 mm - Plug height 29 mm - Plug length 41 mm - For components and labeling plate		C	8WA1 822-7EE00	1	1	041	
	 8WA1 822-7EE00 completely equipped (example)							
Accessories								
 8WA2 831	One-pin plugs, for terminal sizes 2.5 to 6 mm² - Black - Rated uninterrupted current 32 A		C	8WA2 832	1	50	041	
	Two-pin jumpers, for terminal sizes 2.5 to 6 mm² - Light gray - Rated uninterrupted current 32 A - For use without link rail		C	8WA2 831	1	50/1000	041	
	Link rails, for terminal sizes 2.5 to 6 mm² 500 mm long - Rated uninterrupted current 32 A		C	8WA2 830	1	20	041	

Dimensional drawings



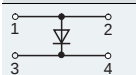
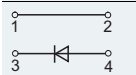
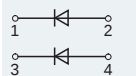
Space for components with 8WA1 822-7EE00 plug

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

8WA diode terminals

Selection and ordering data

Version	DT	Order No.	Price per PU	PU	PS*/P. unit	PG
				Unit(s)	Unit(s)	
General details - Thermoplastic insulating body - Front connection with spring-loaded terminal - Enclosed at both ends						
Terminal size 2.5 mm²		C	8WA2 011-1EF20	1	50	041
 8WA2 011-1EF20		Diode terminals, terminal size 2.5 mm² - Light gray - Rated uninterrupted current 1 A - Peak blocking voltage 1000 V - Mounting width 5.2 mm - Terminal height 38.1 mm - Terminal length 60 mm				
 8WA2 011-1EF20						
Accessories		Section	Page			
One-pin plugs, for terminal sizes 2.5 to 6 mm²		Accessories	12/78	C	8WA2 832	1 50 041
Two-pin jumpers, for terminal sizes 2.5 to 6 mm²		Accessories	12/78	C	8WA2 831	1 50/1000 041
Link rails, for terminal sizes 2.5 to 6 mm²		Accessories	12/78	C	8WA2 830	1 20 041
Terminal size 4 mm²						
 8WA2 011-6EG20		Diode terminals, terminal size 4 mm² - Light gray - Rated uninterrupted current 32/1 A - Rated insulation voltage 250 V - Peak blocking voltage U_{RRM} 1000 V - Mounting width 6.2 mm - Terminal height 36.5 mm - Terminal length 88.2 mm				
Circuit diagram		Rated uninterrupted current	Position of the diode			
		32/1 A	1 and 4	C	8WA2 011-6EG20	1 10 041
		32/1 A	4 and 3	C	8WA2 011-6EG21	1 10 041
		1 A	2 and 1, 4 and 3	C	8WA2 011-6EG22	1 10 041
Accessories		Section	Page			
One-pin plugs, for terminal sizes 2.5 to 6 mm²		Accessories	12/78	C	8WA2 832	1 50 041
Two-pin jumpers, for terminal sizes 2.5 to 6 mm²		Accessories	12/78	C	8WA2 831	1 50/1000 041
Link rails, for terminal sizes 2.5 to 6 mm²		Accessories	12/78	C	8WA2 830	1 20 041
Accessories						
One-pin plugs, for terminal sizes 2.5 to 6 mm² - For bridging with link rail - Black - Rated uninterrupted current 32 A		C	8WA2 832	1	50	041
 8WA2 831		C	8WA2 831	1	50/1000	041
Link rails, for terminal sizes 2.5 to 6 mm² - For bridging 500 mm long - Rated uninterrupted current 32 A		C	8WA2 830	1	20	041

* You can order this quantity or a multiple thereof.

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

8WA sliding-link terminals

Selection and ordering data

Version		DT	Order No.	Price per PU	PU	PS*/P. unit	PG
					Unit(s)	Unit(s)	
General details - Thermoplastic insulating body - Front connection with spring-loaded terminal - Enclosed at both ends							
Terminal size 2.5 mm²							
 8WA2 011-1LF20  8WA2 011-1LF20	Sliding-link terminals, terminal size 2.5 mm² - Light gray - Rated uninterrupted current 16 A - Rated insulation voltage 400 V - Mounting width 5.2 mm - Terminal height 28.6 mm - Terminal length 60 mm - For isolation of current path without disconnecting the conductors - Screwless - Enclosed at both ends		C	8WA2 011-1LF20	1	10	041
	Accessories	Section	Page				
	• One-pin plugs, for terminal sizes 2.5 to 6 mm ²	Accessories	12/79	C	8WA2 832	1	50 041
	• Two-pin jumpers, for terminal sizes 2.5 to 6 mm ²	Accessories	12/79	C	8WA2 831	1	50/1000 041
	• Link rails, for terminal sizes 2.5 to 6 mm ²	Accessories	12/79	C	8WA2 830	1	20 041
Accessories							
 8WA2 831	One-pin plugs, for terminal sizes 2.5 to 6 mm² - For bridging with link rail - Black - Rated uninterrupted current 32 A		C	8WA2 832	1	50	041
	Two-pin jumpers, for terminal sizes 2.5 to 6 mm² - Light gray - Rated uninterrupted current 32 A - For use without link rail		C	8WA2 831	1	50/1000	041
	Link rails, for terminal sizes 2.5 to 6 mm² - For bridging 500 mm long - Rated uninterrupted current 32 A		C	8WA2 830	1	20	041

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

8WA Insta or three-tier terminals

Overview

The Insta terminals incorporate up to 3 different terminal functions in one enclosure of 6.2 mm width. Only two terminals are required to set up a complete three-phase outgoing line (L_1 , L_2 , L_3 , PE/ground, N), 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 to the neutral isolating terminals; the 16 mm² 8WA2 011-3JG11 or 8WA2 846 feeder terminal is used for the infeed.

PE, L, NT Insta terminal

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

- Protective conductor connection
- Through-type connection for one phase conductor (L_1)
- Neutral conductor connection which can be isolated from the 10 mm × 3 mm neutral busbar by means of a slide.

A complete three-phase outgoing line requires an additional 8WA2 011-3JG12 (L_2 , L_3) terminal. The three-phase feeder can be multiplied by means of the linking system described below.

PE, L, N Insta terminals

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

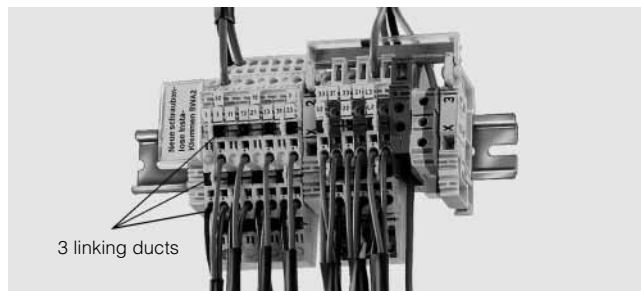
- Protective conductor connection
- Through-type connection for one phase conductor
- Through-type connection for the neutral conductor

PE, L, L Insta terminal

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

L, L Insta terminal

The 8WA2 011-3JG15 and 8WA2 011-3JG18 terminals respectively include one and two through-type connections for phase conductors.



Example strip fitted with Insta terminals

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

8WA Insta or three-tier terminals

Selection and ordering data

Version	DT	Order No.	Price per PU	PU	PS*/P. unit	PG
General details - Thermoplastic insulating body - Front connection with spring-loaded terminal - Enclosed at both ends - Busbar 10 mm x 3 mm				Unit(s)	Unit(s)	
Note For labeling accessories see ...						
		Section	Page			
		8WA accessories	16/13			

Terminal size 4 mm²



8WA2 011-3JG10

Insta/three-tier terminals, terminal size 4 mm²

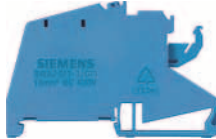
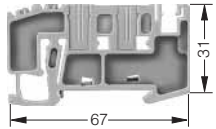
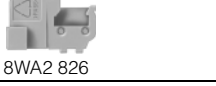
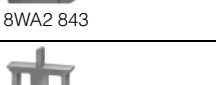
- Rated uninterrupted current 32 A
- Rated insulation voltage:
 - 400 V between phase conductors
 - 250 V between phase conductors, PE terminal and neutral isolating terminal
- Mounting width 6.2 mm
- Terminal height 28 mm
- Terminal length 116.7 mm
- UL AWG 28-12

Circuit diagram	Type					
	PE, L, NT	A	8WA2 011-3JG10	1	20	041
	L, L (for three-phase outgoing line)	C	8WA2 011-3JG12	1	20	041
	PE, L, L	C	8WA2 011-3JG16	1	20	041
	PE, L, N	A	8WA2 011-3JG17	1	20	041
	L, L	C	8WA2 011-3JG18	1	20	041
Accessories	Section	Page				
• One-pin plugs, for terminal sizes 2.5 to 6 mm ²	Accessories	12/82	C	8WA2 832	1	50 041
• Two-pin jumpers, for terminal sizes 2.5 to 6 mm ²	Accessories	12/82	C	8WA2 831	1	50/1000 041
• Feeder terminals, for Insta terminal	Accessories	12/82	C	8WA2 011-3JG11	1	20 041
• Feeder terminals, for neutral busbars						
- Rated uninterrupted current 32 A, for connection of up to 4 mm ²	Accessories	12/82	C	8WA2 867	1	50 041
- Rated uninterrupted current 76 A, for connection of up to 25 mm ²	Accessories	12/82	C	8WA2 868	1	50 041
- Rated uninterrupted current 125 A, for connection of up to 35 mm ²	Accessories	12/82	C	8WA2 870	1	50 041
• Neutral busbars 10 mm x 3 mm	Accessories	12/82	A	8WA2 842	1	1 041
• Neutral busbar ends	Accessories	12/82	C	8WA2 826	1	50 041
• Neutral busbar supports, for terminal sizes 4 to 6 mm ²	Accessories	12/82	C	8WA2 843	1	50 041
• Neutral isolating terminals, terminal size 6 mm ² , mounting width 10 mm	Neutral isolating terminals	12/72	C	8WA2 011-3JH10	1	10 041
• Lockouts, for neutral isolating terminals, for terminal sizes 2.5 to 4 mm ²	Accessories	12/82	D	8WA2 848	1	50 041
• Link rails, for terminal sizes 2.5 to 6 mm ²	Accessories	12/82	C	8WA2 830	1	20 041
• Barriers, for terminal size 4 mm ²	Accessories	12/82	C	8WA2 816	1	50 041

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

8WA Insta or three-tier terminals

Version		DT	Order No.	Price per PU	PU Unit(s)	PS*/ P. unit Unit(s)	PG
Accessories							
One-pin plugs, for terminal sizes 2.5 to 6 mm²		C	8WA2 832		1	50	041
• For bridging with link rail • Black • Rated uninterrupted current 32 A							
		C	8WA2 831		1	50/1000	041
Two-pin jumpers, for terminal sizes 2.5 to 6 mm² • Light gray • Rated uninterrupted current 32 A • For use without link rail							
		C	8WA2 011-3JG11		1	20	041
Feeder terminals, terminal size 16 mm², for Insta terminal • Blue • Rated uninterrupted current 68 A • Rated insulation voltage 800 V • Mounting width 10 mm • Terminal height 42.1 mm • Terminal length 73.9 mm • With screw terminals 16 mm² • Delivery includes the 8WA2 843 neutral busbar support							
							
Feeder terminals, for neutral busbars							
• 6 × 6 mm and 10 × 3 mm • Bare							
Versions							
• Rated uninterrupted current 32 A, for connection of up to 4 mm²		C	8WA2 867		1	50	041
• Rated uninterrupted current 76 A, for connection up to 25 mm²		C	8WA2 868		1	50	041
• Rated uninterrupted current 125 A, for connection up to 35 mm²		C	8WA2 870		1	50	041
		A	8WA2 808		1	50	041
End retainers • Light gray • Mounting width 9 mm • Terminal height 31 mm • Terminal length 67 mm • Suitable for - 8WA1 806 end labeling plate or - 8WA8 826-0A terminal strip labeling plate or - 3TX4 210-0H device label or - four 8WA8 ... labels • Can also be used for neutral busbar 10 × 3 mm (8WA2 826) as retainer with the corresponding 8WA2 837 part							
							
Neutral busbars 10 mm x 3 mm		A	8WA2 842		1	1	041
• Tin-plated • 1000 mm long							
		C	8WA2 826		1	50	041
Neutral busbar ends • Gray • For neutral busbar 10 mm x 3 mm • For insertion into end retainer							
		C	8WA2 843		1	50	041
Neutral busbar supports, for terminal size 4 to 6 mm² • Blue • Loose • For neutral isolating terminals							
		D	8WA2 848		1	50	041
Lockouts, for neutral isolating terminals, for terminal sizes 2.5 to 4 mm² • Yellow							
		C	8WA2 830		1	20	041
Link rails, for terminal sizes 2.5 to 6 mm² • For bridging • 500 mm long • Rated uninterrupted current 32 A							
		C	8WA2 816		1	50	041
Barriers, for terminal size 4 mm² • Yellow							

* You can order this quantity or a multiple thereof.

ALPHA FIX Terminal Blocks

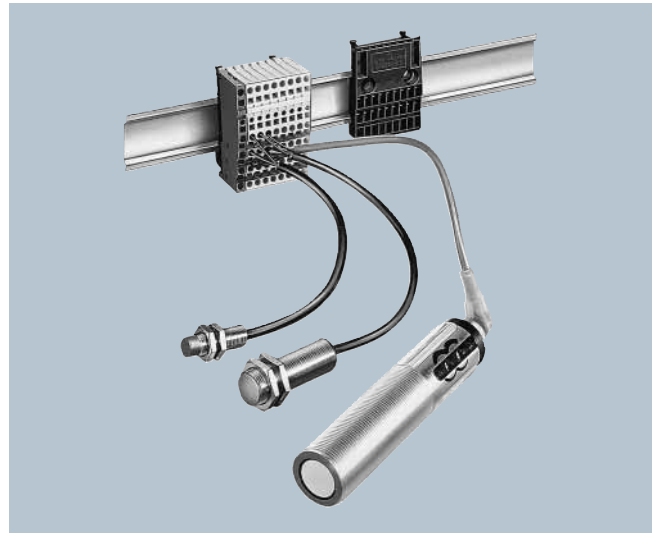
Terminals with Spring-Loaded Connection

8WA initiator/actuator terminals

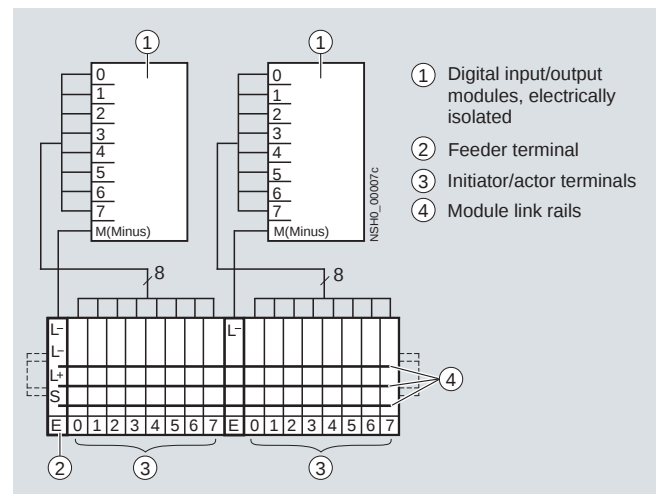
Overview

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

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



Terminals and connection modules (always order as combined unit)



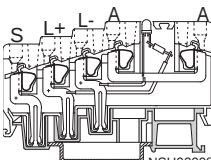
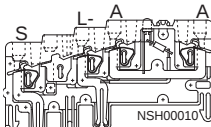
Initiator/actuator terminals with electrically isolated digital input/output modules

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

8WA initiator/actuator terminals

Selection and ordering data

Version	DT	Order No.	Price per PU	PU	PS*/P. unit	PG	
				Unit(s)	Unit(s)		
General details - Thermoplastic insulating body - Front connection with spring-loaded terminal - L+ = brown S (shield) = green - L- = blue A (output), connection not colored - Enclosed at both ends							
Note	Section	Page					
For labeling accessories see ...	8WA accessories	16/13					
Terminal size 1.5 mm²							
 8WA2 011-3KE00							
Feeder terminals, terminal size 1.5 mm² - Orange - Rated uninterrupted current 10 A - Rated insulation voltage 65 V - Mounting width 5 mm - For 250 V, pollution degree 2.							
Versions							
- PNP - L+, L-, S, without LED - L+, L-, without LED - L+, L-, S, with green LED, 15 to 30 V - NPN - L+, L-, S, without LED - L+, L-, without LED or ground connection	C	8WA2 011-3KE00	1	20	041		
	C	8WA2 011-3KE01	1	20	041		
	C	8WA2 011-3KE02	1	20	041		
	C	8WA2 011-3KE00	1	20	041		
	C	8WA2 011-3KE01	1	20	041		
 8WA2 011-3KE13 initiator terminal with connection module							
Initiator terminals, terminal size 1.5 mm² - Light gray - Rated uninterrupted current 10 A - Rated insulation voltage 65 V - Mounting width 5 mm - For 250 V, pollution degree 2. - Current consumption with LED 4.8 mA - PNP							
Versions							
- L+, L-, A, without LED - L+, L-, S, A, without LED - L+, L-, A, with yellow LED, 15 to 30 V - L+, L-, S, A, with yellow LED, 15 to 30 V	C	8WA2 011-3KE10	1	20	041		
	C	8WA2 011-3KE11	1	20	041		
	C	8WA2 011-3KE12	1	20	041		
	C	8WA2 011-3KE13	1	20	041		
 8WA2 011-3KE33 actuator terminals with LED							
Actuator terminals, terminal size 1.5 mm² - Light gray - Rated uninterrupted current 10 A - Rated insulation voltage 65 V - Mounting width 5 mm - For 250 V, pollution degree 2. - Current consumption with LED 4.8 mA							
Versions							
- PNP - L-, S, A, without LED - L-, S, A, with yellow LED, 15 to 30 V - NPN - L+, S, A, without LED	C	8WA2 011-3KE31	1	20	041		
	C	8WA2 011-3KE33	1	20	041		
	C	8WA2 011-3KE30	1	20	041		
 8WA2 011-3KE50							
Connection modules, terminal size 1.5 mm², for all PNP and NPN terminals - Black - Rated uninterrupted current 10 A - Rated insulation voltage 65 V - Mounting width 5 mm - For 250 V, pollution degree 2. - L+, L-, S integrated							
Versions							
- For 8 initiator/actuator terminals and one feeder terminal - Width 47 mm - Height 65 mm - For 16 initiator/actuator terminals, one feeder terminal and space for one terminal for further linking for subsequent module - Width 93 mm - Height 65 mm	C	8WA2 011-3KE50	1	10	041		
	C	8WA2 011-3KE51	1	5	041		
Accessories							
 8WA2 822							
Insulation stops, for conductors, for terminal sizes 2.5 to 4 mm² 200 strands 5-fold 0.75 to 1.5 mm² - Dark gray			C	8WA2 822	100	1000	041

* You can order this quantity or a multiple thereof.

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

8WA general technical specifications

Technical specifications

Continuous load at increased ambient temperatures

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

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

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

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

k = Derating factor according to table

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

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

Standard mounting rails as PEN rails

Only Cu busbars must be used.

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

PEN busbars must carry only terminals, and no devices.

Standard mounting rail as protective conductor busbar

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

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

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

Clamping points

Terminal size mm ²	Type	Thread diameter of terminal screws	Screwdriver blades according to DIN 5264 8WA2 803 or 8WA2 804 ¹⁾	Tightening torque = test torque Nm	Tensile forces according to IEC 60947-1 at max. conductor connection N	Stripped length mm
1.5	8WA2 011-3KE ¹⁾	--	0.5 × 3.5	--	40	8 ... 9
2.5	8WA2 011- ¹⁾	--	0.5 × 3.5	--	50	7 ... 9
4	8WA2 011- ¹⁾	--	0.5 × 3.5	--	60	8 ... 10
6	8WA2 011- ¹⁾	--	0.5 × 3.5	--	80	11 ... 13
10	8WA2 011- ²⁾	--	0.8 × 5.5	--	90	--
16	8WA2 011-1NK23, 8WA2 011-3JG11	M4	0.8 × 4	1.2	100	13

¹⁾ 8WA2 803 operating device.

²⁾ 8WA2 806 operating device.

Rated impulse withstand voltage of terminal blocks

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

Terminal blocks are tested to overvoltage category III.

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

ALPHA FIX Terminal Blocks

Terminals with Spring-Loaded Connection

8WA general technical specifications

Single-conductor connection

Terminal size mm ²	Type	Smallest conductor cross-section					Largest conductor cross-section				
		Solid mm ²	Stranded mm ²	Finely stranded mm ²	Finely stranded with end sleeve ¹⁾ mm ² Size		Solid mm ²	Stranded mm ²	Finely stranded mm ²	Finely stranded with end sleeve ¹⁾ mm ² Size	
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	0.08	--	2.5	2.5	2.5	1.5	1.5 ... 7
4	8WA2 011-	0.08	0.08	0.08	0.08	--	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 . . .	0.2	0.2	0.2	0.2	--	10	16	16	10	--
	8WA2 011-1NK23, -3JG11	1	10	2.5	1	1 ... 10	16	25	16	16	16 ... 12

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

UL- and VDE rating

Terminal size mm ²	Type	CSA rating AWG	Rated current I_n A	Rated voltage U_e V	UR rating AWG	Rated current I_n A	Rated voltage U_e V
1.5	8WA2 011-3KE	28 ... 16	10	AC 65 DC	22 ... 16	10	65
2.5	8WA2 011-1 . F . . .	26 ... 14	20	600	28 ... 14	20	600
4	8WA2 011-1 . G . . .	26 ... 12	25	600	28 ... 12	25	600
	8WA2 011-2	28 ... 12	25	600	28 ... 12	20	600
	8WA2 011-3JG1 . . .	28 ... 12	25	300	28 ... 12	20	300
6	8WA2 011-1 . H . . .	24 ... 10	40	600	24 ... 10	40	600
10	8WA2 011-1 . J . . . ¹⁾	24 ... 8			24 ... 8		
16	8WA2 011-3JG11, -3NK23	12 ... 4	70	600	12 ... 4	73	600
	8WA2 011-1 . K . . . ¹⁾	24 ... 6			24 ... 6		

¹⁾ The terminals have been submitted for certification.

Conductor cross-sections to AWG "American Wire Gauge"

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