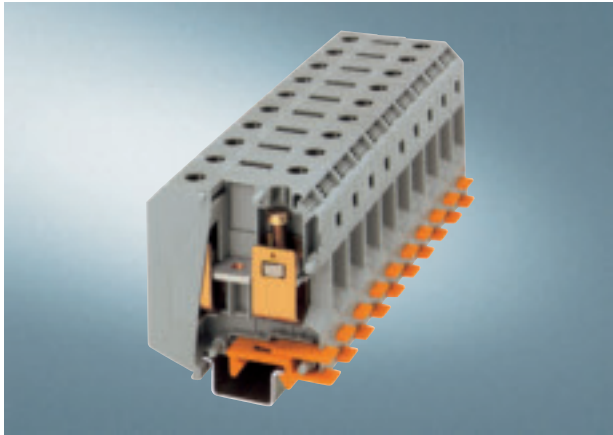


ALPHA FIX Terminal Blocks

ALPHA FIX 8WA and 8WH Terminals with Screw Connection

High-current terminals

Overview



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

- Three-point centering of the conductor in the prismatic sleeve base
- Low contact resistance of the contact area through grooved surface
- Screw locking through spring-loaded elements
- Enclosed terminals on both sides

The terminals have an enclosed half-shell insulating envelope made from polyamide 6.6.

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

Mounting on mounting rails according to IEC 60715

Note:

For flat-type terminals with terminal bolt, see section *flat-type terminals*.

Technical specifications

	8WH1 000-0AN00 / 0AN01	8WH1 000-0CN07	8WH1 000-0AQ00 / 0AQ01
Dimensions			
• Width / length in mm	20 / 70.5		25 / 83
• Height (TS 35/7.5 / TS 35/15 / TS 32) in mm	– / 83.5 / 81.5		– / 97.5 / 95.5
Technical specifications according to IEC/DIN VDE			
• Maximum load current/cross-section in A / mm ²	150 / 50		232 / 95
• Max. cross-section with comb (rigid/flexible) in mm ²	–		95 / 70
• Rated impulse withstand voltage/pollution degree in kV / –	8 / 3		
• Overvoltage category/insulating group in – / –	III / I		
Connection capacity			
• Flexible with ferrule with/without insulating sleeve in mm ²	25 ... 50 / 25 ... 50		35 ... 95 / 35 ... 95
Multi-conductor connection (two conductors of same cross-section)			
• Rigid/flexible in mm ²	10 ... 16 / 10 ... 16		25 ... 35 / 25 ... 35
• Flexible without ferrule with plastic sleeve in mm ²	10 ... 16		16 ... 35
Stripped length in mm	24		33
Plug gage (IEC 60947-1)	B10		B12
Screw thread	M 6	–	M 8
Tightening torque in Nm	6 ... 8	–	15 ... 20
Clamping point: screw thread/tightening torque in – / Nm	–	M 6 / 6 ... 8	–
Fixing: screw thread/tightening torque in – / Nm	–	M 6 / 6 ... 8	–
Insulation type	PA		
• Flammability class according to UL 94	V0		
Approval data (UL/CUL and CSA)			
• Nominal voltage/current / cable sizes			
- UL/CUL: V / A / AWG	600 / 150 / 6 – 0	6 – 1 / 0	600 / 230 / 2 – 000
- CSA: V / A / AWG	600 / 125 / 6 – 0	–	600 / 230 / 1 – 000
Mounting rails/protective conductor busbar	–	See section <i>Mounting rails</i>	–

ALPHA FIX Terminal Blocks


ALPHA FIX 8WA and 8WH Terminals with Screw Connection

1

High-current terminals

	8WH1 000-0CQ07	8WH1 000-0AS00 / 0AS01	8WH1 000-0AU00 / 0AU01
Dimensions			
• Width/length in mm	25 / 83	31 / 100	36 / 100
• Height (TS 35/7.5 / TS 35/15 / TS 32) in mm	- / 99 / 96.5	- / 118.5 / 116	- / 131.5 / 129.5
Technical specifications according to IEC/DIN VDE			
• Maximum load current/cross-section in A / mm ²	232 / 95	309 / 150	415 / 240
• Max. cross-section with comb (rigid/flexible) in mm ²	-	150 / 120	240 / 185
• Rated impulse withstand voltage/pollution degree in kV / -	8 / 3		
• Overvoltage category/insulating group in - / -	III / I		
Connection capacity			
• Flexible with ferrule with/without insulating sleeve in mm ²		50 ... 150 / 50 ... 150	70 ... 185 / 70 ... 185
Multi-conductor connection (two conductors of same cross-section)			
• Rigid/flexible in mm ²	25 ... 35 / 25 ... 35	25...50 / 35...50	35...95 / 50...95
• Flexible without ferrule with plastic sleeve in mm ²	16 ... 35	25 ... 50	35 ... 50
Stripped length in mm	30	40	
Plug gage (IEC 60947-1)	B12	B14	B15
Screw thread	-	M 10	
Tightening torque in Nm	-	25 ... 30	
Clamping point: screw thread/tightening torque in - / Nm	M8 / 15 ...20 (hexagon socket-head screw)	-	-
Fixing: screw thread/tightening torque in - / Nm	M8 / 15 ...20 (hexagon socket-head screw)	-	-
Insulation type	PA		
• Flammability class according to UL 94	V0		
Approval data (UL/CUL and CSA)			
• Nominal voltage/current / cable sizes			
- UL/CUL: V / A / AWG	2 ... 4 / 0	600 / 285 / 2 AWG - 300 kcmil	600 / 380 / 00 - 500 kcmil
- CSA: V / A / AWG	2 ... 4 / 0	600 / 275 / 2 AWG - 300 kcmil	600 / 400 / 0 - 500 kcmil
Mounting rails/protective conductor busbar	See section <i>Mounting rails</i>	-	








Selection and ordering data

Version	Order No.	Price	PG	PS* P. unit
		1 unit		Unit(s)
Terminal size 50 mm²				
 <p>8WH1 000-0AN00</p>	High-current terminals, terminal size 50 mm² <ul style="list-style-type: none"> Terminal width 20 mm UL US IEC 60947-7-1 <ul style="list-style-type: none"> Rigid 16-50 mm² Flexible 25-50 mm² AWG 6-0 I = 150 A U = 1000 V EN 50019 (EU type approval certification No.: KEMA 98ATEX1786U) <ul style="list-style-type: none"> Rigid 16-50 mm² Flexible 25-50 mm² AWG 6-0 I = 135 A U = 750 V 			
	Versions <ul style="list-style-type: none"> Gray Blue 			
Accessories		Section	Page	
Pick-off terminals, for terminal size 50 mm²		Accessories	1/13	
Insertion profiles, for terminal size 50 mm²		Accessories	1/13	
Permanent links, for terminal size 50 mm²				
• 2-pole		Accessories	1/14	044 10
• 3-pole		Accessories	1/14	044 10
	8WH1 000-0AN00		044	10
	8WH1 000-0AN01		044	10
	8WH9 120-0AA00		044	10
	8WH9 020-3MA00		044	10
	8WH9 020-6HC00		044	10
	8WH9 020-6HD00		044	10

ALPHA FIX Terminal Blocks

ALPHA FIX 8WA and 8WH Terminals with Screw Connection

High-current terminals

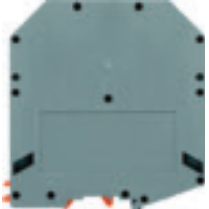






Version	Order No.	Price	PG	PS* P. unit																		
		1 unit		Unit(s)																		
 <p>8WH1 000-0CN07</p> <p>High-current PE terminals, terminal size 50 mm²</p> <ul style="list-style-type: none"> Terminal width 20 mm  <ul style="list-style-type: none"> IEC 60947-7-1 <ul style="list-style-type: none"> - rigid 16-50 mm² - flexible 25-50 mm² - AWG 6-0 - I = 150 A - U = 1000 V EN 50019 (EU type approval certification No.: KEMA 98ATEX1786U) <ul style="list-style-type: none"> - rigid 16-50 mm² - flexible 25-50 mm² - AWG 6-0 - I = 135 A - U = 750 V 	8WH1 000-0CN07		044	10																		
<table border="1"> <thead> <tr> <th>Accessories</th> <th>Section</th> <th>Page</th> </tr> </thead> <tbody> <tr> <td>Insertion profiles, for terminal size 50 mm²</td> <td>Accessories</td> <td>1/13</td> </tr> </tbody> </table>	Accessories	Section	Page	Insertion profiles, for terminal size 50 mm²	Accessories	1/13	8WH9 020-3MA00		044	10												
Accessories	Section	Page																				
Insertion profiles, for terminal size 50 mm²	Accessories	1/13																				
Terminal size 95 mm²																						
 <p>8WH1 000-0AQ00</p> <p>High-current terminals, terminal size 95 mm²</p> <ul style="list-style-type: none"> Terminal width 25 mm  <ul style="list-style-type: none"> IEC 60947-7-1 <ul style="list-style-type: none"> - rigid 25-95 mm² - flexible 35-95 mm² - AWG 4-000 - I = 232 A - U = 1000 V 																						
<table border="1"> <thead> <tr> <th>Versions</th> </tr> </thead> <tbody> <tr> <td> <ul style="list-style-type: none"> Gray Blue </td> </tr> </tbody> </table>	Versions	<ul style="list-style-type: none"> Gray Blue 	<table border="1"> <tbody> <tr> <td>8WH1 000-0AQ00</td> <td>044</td> <td>10</td> </tr> <tr> <td>8WH1 000-0AQ01</td> <td>044</td> <td>10</td> </tr> </tbody> </table>	8WH1 000-0AQ00	044	10	8WH1 000-0AQ01	044	10													
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Accessories	Section	Page																				
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Insertion profiles, for terminal size 95 mm²	Accessories	1/13																				
	8WH9 020-3AA00		044	10																		
	8WH9 020-3BA00		044	10																		
	8WH9 020-3NA00		044	10																		
 <p>8WH1 000-0CQ07</p> <p>High-current PE terminals, terminal size 95 mm²</p> <ul style="list-style-type: none"> Green-yellow Terminal width 25 mm  <ul style="list-style-type: none"> IEC 60947-7-1 <ul style="list-style-type: none"> - rigid 25-95 mm² - flexible 35-95 mm² - AWG 4-000 - I = 232 A - U = 1000 V 	8WH1 000-0CQ07		044	10																		
<table border="1"> <thead> <tr> <th>Accessories</th> <th>Section</th> <th>Page</th> </tr> </thead> <tbody> <tr> <td>Insertion profiles, for terminal size 95 mm²</td> <td>Accessories</td> <td>1/13</td> </tr> </tbody> </table>	Accessories	Section	Page	Insertion profiles, for terminal size 95 mm²	Accessories	1/13	8WH9 020-3NA00		044	10												
Accessories	Section	Page																				
Insertion profiles, for terminal size 95 mm²	Accessories	1/13																				
 <p>8WA1 010-1PQ00</p> <p>High-current PE terminals and high-current PEN terminals, terminal size 95 mm², two screw terminals</p> <ul style="list-style-type: none"> Bare For I = 232 A Mounting width 16 mm Terminal height 63 mm Terminal length 75 mm For 35 mm x 15 mm mounting rail only 	8WA1 010-1PQ00		041	5																		

ALPHA FIX Terminal Blocks

ALPHA FIX 8WA and 8WH Terminals with Screw Connection

1





High-current terminals

Version	Order No.	Price	PG	PS* P. unit	
		1 unit		Unit(s)	
Terminal size 150 mm²					
 <p>8WH1 000-0AS00</p>	High-current terminals, terminal size 150 mm² <ul style="list-style-type: none"> Terminal width 31 mm  IEC 60947-7-1 <ul style="list-style-type: none"> rigid 35–150 mm² flexible 50–150 mm² AWG 2-300 I = 309 A U = 1000 V 				
	Versions <ul style="list-style-type: none"> Gray Blue 				8WH1 000-0AS00 044 10 8WH1 000-0AS01 044 10
	Accessories		Section Accessories 1/13	Page 1/13	
	Tap-off terminals, for terminal size 150 to 240 mm²				8WH9 120-0CA00 044 10
	Combs, for terminal size 150 mm² <ul style="list-style-type: none"> 2-pole 3-pole 				8WH9 020-3CA00 044 10 8WH9 020-3DA00 044 10
	Insertion profiles, for terminal size 150 and 240 mm²				8WH9 020-3PA00 044 10
Terminal size 240 mm²					
 <p>8WH1 000-0AU00</p>	High-current terminals, terminal size 240 mm² <ul style="list-style-type: none"> Terminal width 36 mm  IEC 60947-7-1 <ul style="list-style-type: none"> rigid 70–240 mm² flexible 70–240 mm² AWG 00-500 I = 415 A U = 1000 V 				
	Versions <ul style="list-style-type: none"> Gray Blue 				8WH1 000-0AU00 044 10 8WH1 000-0AU01 044 10
	Accessories		Section Accessories 1/13	Page 1/13	
	Tap-off terminals, for terminal size 150 to 240 mm²				8WH9 120-0CA00 044 10
	Combs, for terminal size 240 mm² <ul style="list-style-type: none"> 2-pole 3-pole 				8WH9 020-3EA00 044 10 8WH9 020-3FA00 044 10
	Insertion profiles, for terminal size 150 and 240 mm²				8WH9 020-3PA00 044 10
Accessories					
 <p>8WH9 120-0AA00</p>	Tap-off terminals <ul style="list-style-type: none"> When wiring a pick-off with a smaller cross-section, observe the overload and short-circuit strength specified in VDE 0100 Part 430 I_{max}: 57 A 				
	Versions <ul style="list-style-type: none"> For terminal size 50 mm² For terminal size 95 mm² For terminal size 150 to 240 mm² 				8WH9 120-0AA00 044 10 8WH9 120-0BA00 044 10 8WH9 120-0CA00 044 10
 <p>8WH9 020-3AA00</p>	Combs <ul style="list-style-type: none"> Totally insulated Fitted in the clamping sleeve and latched with the terminal enclosure. 				
	Versions <ul style="list-style-type: none"> For terminal size 95 mm² <ul style="list-style-type: none"> 2-pole 3-pole For terminal size 150 mm² <ul style="list-style-type: none"> 2-pole 3-pole For terminal size 240 mm² <ul style="list-style-type: none"> 2-pole 3-pole 				8WH9 020-3AA00 044 10 8WH9 020-3BA00 044 10 8WH9 020-3CA00 044 10 8WH9 020-3DA00 044 10 8WH9 020-3EA00 044 10 8WH9 020-3FA00 044 10
 <p>8WH9 020-3MA00</p>	Insertion profiles <ul style="list-style-type: none"> Evens out the prismatic sleeve floor when using flat conductors 				
	Versions <ul style="list-style-type: none"> For terminal size 50 mm² For terminal size 95 mm² For terminal size 150 and 240 mm² 				8WH9 020-3MA00 044 10 8WH9 020-3NA00 044 10 8WH9 020-3PA00 044 10

ALPHA FIX Terminal Blocks

ALPHA FIX 8WA and 8WH Terminals with Screw Connection

High-current terminals

Version	Order No.	Price	PG	PS* P. unit
		1 unit		Unit(s)
 <p>Permanent links, for terminal size 50 mm²</p> <ul style="list-style-type: none"> • For cross links • Screw heads with insulating collar • Remove partition first • $I_{max} = 150$ A <p>Versions</p> <ul style="list-style-type: none"> • 2-pole • 3-pole 	<p>8WH9 020-6HC00</p> <p>8WH9 020-6HD00</p>		044	10
 <p>Labeling plates, front, for terminal width 10.2 mm, horizontal inscription</p> <ul style="list-style-type: none"> • Incremental numbering <ul style="list-style-type: none"> - 1 to 10 (10x) - 11 to 20 (10x) - 21 to 30 (10x) - 31 to 40 (10x) • L1/L2/L3/N/PE • Custom inscription • U/N/W/N/grounding 	<p>8WH8 120-5AB05</p> <p>8WH8 120-5AB15</p> <p>8WH8 120-5AB25</p> <p>8WH8 120-5AB35</p> <p>8WH8 120-5AA15</p> <p>8WH8 120-5AA15</p> <p>8WH8 120-5AA25</p>		044	100
 <p>Labeling plates, front, for terminal width 10.2 mm, vertical inscription</p> <ul style="list-style-type: none"> • Incremental numbering <ul style="list-style-type: none"> - 1 to 10 (10x) - 11 to 20 (10x) - 21 to 30 (10x) - 31 to 40 (10x) • Custom inscription 	<p>8WH8 140-5AB05</p> <p>8WH8 140-5AB15</p> <p>8WH8 140-5AB25</p> <p>8WH8 140-5AB35</p> <p>8WH8 140-5XA05</p>		044	100
 <p>Labeling plates, front, for terminal width 10.2 mm, blank</p>	8WH8 110-5AA05		044	100