

ALPHA FIX Terminal Blocks

ALPHA FIX 8WA and 8WH Terminals with Screw Connection

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Flat-type terminals

Overview



The range of flat-type terminals cover cross-sectional areas from 10 to 240 mm². Each terminal size is available as a bolt-type terminal for cable lugs and for direct connection with clamping sleeve. The screws of the bolt-type terminals are secured with spring washers and those for direct connection with the Reakdyn principle.

For mounting on mounting rails according to IEC 60715.

Technical specifications

	8WH1 060-0AL00	8WH1 060-0AN00	8WH1 060-0AQ00	8WH1 060-0AS00	8WH1 060-0AU00
Dimensions					
• Height / length / width in mm	53 / 88 / 26	54.5 / 95 / 32	56 / 110 / 40	56 / 110 / 46	58 / 125 / 53
Technical specifications according to IEC/DIN VDE					
• Maximum load current/cross-section in A / mm ²	101 / 25	150 / 50	232 / 95	309 / 150	415 / 240
• Rated impulse withstand voltage/pollution degree in kV / –	8 / 3				
• Overvoltage category/insulating group – / –	III / II				
Connection capacity					
• Flexible with ferrule with/without insulating sleeve in mm ²	4 ... 25 / 4 ... 25	25 ... 50 / 25 ... 50	35 ... 95 / 35 ... 95	50 ... 150 / 50 ... 150	70 ... 185 / 70 ... 185
• Set of screws/terminal bolts	M 8	M 10	M 12		M 16
• Eye diameter/busbar in mm / mm	8.4 / 15 x 3	10.5 / 20 x 3	13 / 30 x 5		17 / 40 x 5
• Cable lugs, DIN 46235 in mm ²	16 ... 25	16 ... 50	25 ... 95	25 ... 150	50 ... 185
• Flexible with ferrule with/without insulating sleeve in mm ²	2.5 ... 25	6 ... 50	10 ... 95	10 ... 150	25 ... 240
Multi-conductor connection (two conductors of same cross-section)					
• Rigid/flexible in mm ²	2.5 ... 10 / 4 ... 10	10 ... 16 / 10 ... 16	25 ... 35 / 25 ... 35	25 ... 50 / 35 ... 50	35 ... 95 / 50 ... 95
• Flexible without ferrule with plastic sleeve in mm ²	2.5 ... 10	10 ... 16	16 ... 35	25 ... 50	35 ... 50
Stripped length in mm					
	21	26	29	34	
Plug gage (IEC 60947-1)					
	B8	B10	B12	B14	B15
KH: screw thread/tightening torque in – / Nm					
	M 5 / 4 ... 4,5	M 6 / 6 ... 8	M 8 / 15 ... 20	M 10 / 25 ... 30	
Set of screws AS: Tightening torque in Nm					
	15 ... 20	25 ... 30			30 ... 35
Insulation type					
• Flammability class according to UL 94	PA-F HB				
Approval data (UL/CUL and CSA)					
• Nominal voltage/current / cable sizes					
- UL/CUL: V / A / AWG	600 / 85 / 6 – 4	600 / 150 / 6 – 0	600 / 230 / 2 – 000	600 / 285 / 2 AWG – 300 kcmil	600 / 380 / 0 AWG – 500 kcmil
- CSA: V / A / AWG	600 / 100 / 6 – 4	600 / 125 / 6 – 0	600 / 200 / 2 – 000	600 / 275 / 2 AWG – 300 kcmil	600 / 400 / 0 AWG – 500 kcmil

Safe cable lug connection

In the flat-type terminals, cable lugs are securely clamped with screws. The screws are secured with a spring washer. Cable lugs according to DIN 46234 and DIN 46235 can be connected.

A two-wire connection is also possible by clamping one conductor with cable lug underneath the current bar the second on the current bar. See compartmentalization drawing.

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	Cable lug, DIN 46234:1980-03			Cable lug, DIN 46235:1983-07	
	Conductor cross-section in mm ²	Hole \varnothing d ₂ in mm	Width d ₃ in mm	Hole \varnothing d ₂ in mm	Width b in mm
M6	1.5	6.4	10	–	–
	2.5	6.4	11	–	–
	6	6.4	11	6.4	8.5
	10	6.4	11	6.4	8.5
	16	6.4	11	6.4	12
	25	6.4	12	6.4	14
	35	6.4	16	–	–
	50	6.4	18	–	–
M8	2.5	8.4	14	–	–
	6	8.4	14	–	–
	10	8.4	14	–	–
	16	8.4	14	8.4	13
	25	8.4	16	8.4	16
	35	8.4	16	8.4	17
	50	8.4	18	8.4	20
	70	8.4	22	8.4	24
	95	8.4	24	–	–
	120	8.4	24	–	–
M10	6	10.5	18	–	–
	10	10.5	18	–	–
	16	10.5	18	10.5	17
	25	10.5	18	10.5	17
	35	10.5	18	10.5	19
	50	10.5	18	10.5	22
	70	10.5	22	10.5	24
	95	10.5	24	10.5	28
	120	10.5	24	10.5	32
	150	10.5	30	10.5	34
	185	10.5	36	10.5	37
240	10.5	38	–	–	
M12	10	13	22	–	–
	16	13	22	–	–
	25	13	22	13	19
	35	13	22	13	21
	50	13	22	13	24
	70	13	22	13	24
	95	13	24	13	28
	120	13	24	13	32
	150	13	30	13	34
	185	13	36	13	37
	240	13	38	13	42
M16	25	17	28	–	–
	35	17	28	–	–
	50	17	28	17	28
	70	17	28	17	30
	95	17	28	17	32
	120	17	28	17	32
	150	17	30	17	34
	185	17	36	17	37
240	17	38	17	42	













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Flat-type terminals

Selection and ordering data












Version		Order No.	Price	PG	PS* P. unit					
			1 unit		Unit(s)					
Terminal size 25 mm²										
 8WH1 060-0AL00	Flat-type terminals, terminal size 25 mm² <ul style="list-style-type: none"> • At both sides with set of screws • For busbar and cable lug connection • Terminal width 26 mm •   • Clamping sleeve, 6-25 mm² • AWG 10-4 • IEC 60947-7-1 • Supply data <ul style="list-style-type: none"> - I = 101 A - U = 1000 V • Height/length/width in mm: 53/88/23 	8WH1 060-0AL00		044	10					
	Accessories					Section	Page			
	Insulating plates, for terminal size 25 to 50 mm²					Accessories	1/20	8WH9 070-0VA00	044	10
	Link rails, for terminal size 25 mm² <ul style="list-style-type: none"> • 2-pole • 3-pole 					Accessories	1/20	8WH9 030-3AC00	044	10
			Accessories	1/20	8WH9 030-3AD00	044	10			
Terminal size 50 mm²										
 8WH1 060-0AN00	Flat-type terminals, terminal size 50 mm² <ul style="list-style-type: none"> • Double conductor run with set of screws • For busbar and cable lug connection • Terminal width 32 mm •   • Clamping sleeve, 25-50 mm² • AWG 6-0 • IEC 60947-7-1 • Supply data <ul style="list-style-type: none"> - I = 150 A - U = 1000 V • Height/length/width in mm: 54,5/95/32 	8WH1 060-0AN00		044	10					
	Accessories					Section	Page			
	Insulating plates, for terminal size 25 to 50 mm²					Accessories	1/20	8WH9 070-0VA00	044	10
	Link rails, for terminal size 50 mm² <ul style="list-style-type: none"> • 2-pole • 3-pole 					Accessories	1/20	8WH9 030-3BC00	044	10
			Accessories	1/20	8WH9 030-3BD00	044	10			
Terminal size 95 mm²										
 8WH1 060-0AQ00	Flat-type terminals, terminal size 95 mm² <ul style="list-style-type: none"> • Double conductor run with set of screws • For busbar and cable lug connection • Terminal width 40 mm •   • Clamping sleeve, 35-95 mm² • AWG 4-000 • IEC 60947-7-1 • Supply data <ul style="list-style-type: none"> - I = 232 A - U = 1000 V • Height/length/width in mm: 56/110/40 	8WH1 060-0AQ00		044	10					
	Accessories					Section	Page			
	Insulating plates, for terminal size 95 to 240 mm²					Accessories	1/20	8WH9 070-0WA00	044	10
	Link rails, for terminal size 95 mm² <ul style="list-style-type: none"> • 2-pole • 3-pole 					Accessories	1/20	8WH9 030-3CC00	044	10
			Accessories	1/20	8WH9 030-3CD00	044	10			
Terminal size 150 mm²										
 8WH1 060-0AS00	Flat-type terminals, terminal size 150 mm² <ul style="list-style-type: none"> • Double conductor run with set of screws • For busbar and cable lug connection • Terminal width 46 mm •   • Clamping sleeve 50-150 mm² • AWG 2-300 • IEC 60947-7-1 • Supply data <ul style="list-style-type: none"> - I = 309 A - U = 1000 V • Height/length/width in mm: 56/110/46 	8WH1 060-0AS00		044	10					
	Accessories					Section	Page			
	Insulating plates, for terminal size 95 to 240 mm²					Accessories	1/20	8WH9 070-0WA00	044	10
	Link rails, for terminal size 150 mm² <ul style="list-style-type: none"> • 2-pole • 3-pole 					Accessories	1/20	8WH9 030-3DC00	044	10
			Accessories	1/20	8WH9 030-3DD00	044	10			

* You can order this quantity or a multiple thereof.

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ALPHA FIX 8WA and 8WH Terminals with Screw Connection

Flat-type terminals

Version	Order No.	Price 1 unit	PG	PS* P. unit																		
Unit(s)																						
Terminal size 240 mm²																						
 <p>8WH1 060-0AU00</p> <p>Flat-type terminals, terminal size 240 mm²</p> <ul style="list-style-type: none"> • Double conductor run with set of screws • For busbar and cable lug connection • Flat clamp must be fitted • Terminal width 53 mm •   • Clamping sleeve, 70–240 mm² • AWG kcmil 00-500 • IEC 60947-7-1 • Supply data <ul style="list-style-type: none"> - I = 415 A - U = 1000 V • Height/length/width in mm: 56/125/53 	8WH1 060-0AU00		044	5																		
<table border="1"> <thead> <tr> <th>Accessories</th> <th>Section</th> <th>Page</th> </tr> </thead> <tbody> <tr> <td>Flat clamps, for terminal size 240 mm²</td> <td>Accessories</td> <td>1/20</td> </tr> <tr> <td>Insulating plates, for terminal size 95 to 240 mm²</td> <td>Accessories</td> <td>1/20</td> </tr> <tr> <td>Link rails, for terminal size 240 mm²</td> <td></td> <td></td> </tr> <tr> <td>• 2-pole</td> <td>Accessories</td> <td>1/20</td> </tr> <tr> <td>• 3-pole</td> <td>Accessories</td> <td>1/20</td> </tr> </tbody> </table>	Accessories	Section	Page	Flat clamps, for terminal size 240 mm²	Accessories	1/20	Insulating plates, for terminal size 95 to 240 mm²	Accessories	1/20	Link rails, for terminal size 240 mm²			• 2-pole	Accessories	1/20	• 3-pole	Accessories	1/20				
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• 3-pole	Accessories	1/20																				
Accessories																						
 <p>8WH9 140-0KA00</p> <p>Flat clamps, for terminal size 240 mm²</p> <ul style="list-style-type: none"> • Raises busbar 12 mm over surface • Required for engaging and releasing terminal 8WH1 060-0AU00 	8WH9 140-0KA00		044	10																		
 <p>8WH8 120-5AB05</p> <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 	8WH8 120-5AB05		044	100																		
 <p>8WH8 120-5AA15</p>			044	100																		
 <p>8WH8 120-5AA25</p>			044	100																		
 <p>8WH8 140-5AB05</p> <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 	8WH8 140-5AB05		044	100																		
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 <p>8WH8 110-5AA05</p> <p>Labeling plates, front, for terminal width 10.2 mm, blank</p>	8WH8 110-5AA05		044	100																		
 <p>8WH9 070-0VA00</p> <p>Insulating plates</p> <ul style="list-style-type: none"> • Gray • Can be snapped in without separation loss between the terminal mountings • 180 mm wide 																						
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 <p>8WH9 030-3AC00</p> <p>Link rails</p> <p>For cross-linking high-current connectors with screw set AS</p> <ul style="list-style-type: none"> • For terminal size 25 mm² <ul style="list-style-type: none"> - 2-pole - 3-pole • For terminal size 50 mm² <ul style="list-style-type: none"> - 2-pole - 3-pole • 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 030-3AC00		044	10																		
	8WH9 030-3AD00		044	10																		
	8WH9 030-3BC00		044	10																		
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	8WH9 030-3DC00		044	10																		
	8WH9 030-3DD00		044	10																		
	8WH9 030-3EC00		044	10																		
	8WH9 030-3ED00		044	10																		