

ALPHA FIX Terminal Blocks

ALPHA FIX 8WH Combination Plug-In Terminals

Hybrid isolating terminals

Overview



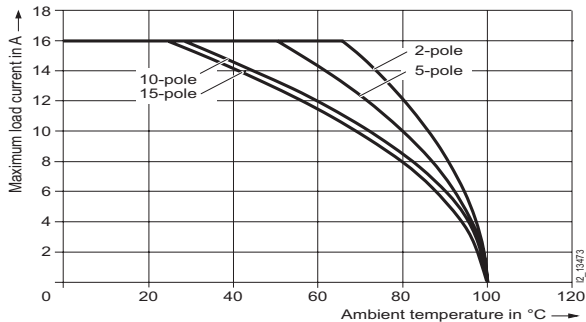
Through-type terminals with isolating point are the most commonly used terminal types in instrumentation and control. In the isolating point, through-type connectors, isolating plugs, component connectors and fused connectors can be fitted. The isolating blade terminals excel with their narrow width of only 5.2 mm and their high current load rating of 16 A. On both sides of the isolating point, Ø 2.3 mm test adapters can be fitted. A special feature of this terminal type is its three comb slots.

Technical specifications

8WH5 103-6FF00	
Dimensions	
• Width / length / width of cover in mm	5.2 / 81 / 2.2
• Height (NS 35/7.5 / NS 35/15) in mm	36.5 / 44
Technical specifications according to IEC/DIN VDE	
• Max. load current ¹⁾ per cross-section in A/mm ²	16 / 4
• Rated impulse withstand voltage/pollution degree in kV / -	6 / 3
• Overvoltage category/insulating group - / -	III / I
Connection capacity	
• Flexible with ferrule with plastic sleeve in mm ²	0.25 ... 2.5
• Flexible without ferrule with plastic sleeve in mm ²	0.25 ... 2.5
• Flexible with TWIN ferrule with plastic sleeve in mm ²	0.5
Stripped length	10
Plug gage (IEC 60947-1)	A3
Insulation type	PA
• Flammability class according to UL 94	V0
Approval data (UL/CUL and CSA)	
• Nominal voltage/current / cable sizes	
- UL/CUL: in V/A / AWG	600 / 20 / 28-12
- CSA: in V/A / AWG	-

¹⁾ For higher temperatures and/or multipin combination plug-in terminals a derating as for load current is necessary.

G fuse links 5 x 20 mm to IEC 60947-7-3	U V	Overload protection		Without short-circuit protection		I _{max} A
		Separate	Interconnected	Separate	Interconnected	
8WH2 000-1GG08	250	1.6 W	1.6 W	4 W	2.5 W	6.3




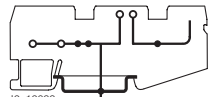
Derating curve for 8WH5 103-6FF00

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Selection and ordering data

Version	Order No.	Price	PG	PS* P. unit	
		1 unit		Unit(s)	
Terminal size 2.5 mm²					
 <p>8WH5 103-6FF00</p>  <p>12_12633 8WH5 103-6FF00</p>	Hybrid isolating terminals, terminal size 2.5 mm² <ul style="list-style-type: none"> • Gray • Terminal width 5.2 mm • With three connection points (2 × spring-loaded connection, 1 × combination plug-in terminal connection) • IEC 61984 <ul style="list-style-type: none"> - Solid, 0.08 ... 4 mm² - Flexible, 0.08 ... 2.5 mm² - AWG 28-12 - I = 16 A - U = 400 V - Current and voltage are determined by the fitted plug. 		8WH5 103-6FF00	044	50
Accessories					
	Accessories	Section	Page		
	Compartment partitions, for terminal size 1.5 to 4 mm² and four connection points		Accessories 3/19	8WH9 070-0HA00	044 50
	Component connectors		Accessories 3/19	8WH9 040-0BB00	044 10
	Cover plates, for terminal size 2.5 mm² and four connection points		Accessories 3/19	8WH9 000-4LA00	044 50
	Through-type connectors		Accessories 3/19	8WH9 020-8AB00	044 50
	Fused connectors				
	• With LED display for 12 to 30 V	Accessories 3/20	8WH9 040-3AB08	044 10	
	• With LED display for 30 to 60 V	Accessories 3/20	8WH9 040-3BB08	044 10	
	• With LED display for 110 to 250 V	Accessories 3/20	8WH9 040-3CB08	044 10	
	• Without LED display	Accessories 3/20	8WH9 040-3DB08	044 10	
	Connecting combs, for terminal width 5.2 mm²				
	• 2-pole	Accessories 3/20	8WH9 020-6BC10	044 50	
	• 3-pole	Accessories 3/20	8WH9 020-6BD10	044 50	
	• 4-pole	Accessories 3/20	8WH9 020-6BE10	044 50	
	• 5-pole	Accessories 3/20	8WH9 020-6BF10	044 50	
	• 10-pole	Accessories 3/20	8WH9 020-6BL10	044 10	
	• 20-pole	Accessories 3/20	8WH9 020-6BS10	044 10	
	• 50-pole	Accessories 3/20	8WH9 020-6BT10	044 10	
	Isolating plugs		Accessories 3/20	8WH9 040-0DB04	044 50
Accessories					
	Compartment partitions, for terminal size 1.5 to 4 mm² and four connection points				
	• For visual and electrical separation of terminal groups				
	• 2 mm thick				
		Accessories 3/19	8WH9 070-0HA00	044 50	
	Component connectors				
	• Gray				
	• For labeling with flat labeling plates, for terminal width 5.2 mm				
		Accessories 3/19	8WH9 040-0BB00	044 10	
	Cover plates, for terminal size 2.5 mm² and four connection points				
		Accessories 3/19	8WH9 000-4LA00	044 50	
	Through-type connectors				
	Gray				
		Accessories 3/19	8WH9 020-8AB00	044 50	
	Labeling plates, front, for terminal width 5.2 mm, horizontal inscription				
	• Incremental numbering				
	- 1 to 10 (10×)		8WH8 120-2AB05	044 100	
	- 11 to 20 (10×)		8WH8 120-2AB15	044 100	
	- 21 to 30 (10×)		8WH8 120-2AB25	044 100	
	- 31 to 40 (10×)		8WH8 120-2AB35	044 100	
	- 41 to 50 (10×)		8WH8 120-2AB45	044 100	
	- 51 to 60 (10×)		8WH8 120-2AB55	044 100	
	- 61 to 70 (10×)		8WH8 120-2AB65	044 100	
	- 71 to 80 (10×)		8WH8 120-2AB75	044 100	
	- 81 to 90 (10×)		8WH8 120-2AB85	044 100	
	- 91 to 100 (10×)		8WH8 120-2AC05	044 100	
	• L1/L2/L3/N/PE		8WH8 120-2AA15	044 100	
	• Custom inscription		8WH8 120-2XA05	044 100	

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Version	Order No.	Price	PG	PS* P. unit
		1 unit		Unit(s)
 <p>8WH8 140-2AB05</p> <p>Labeling plates, front, for terminal width 5.2 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) - 41 to 50 (10x) - 51 to 60 (10x) - 61 to 70 (10x) - 71 to 80 (10x) - 81 to 90 (10x) - 91 to 100 (10x) • Custom inscription 	<p>8WH8 140-2AB05</p> <p>8WH8 140-2AB15</p> <p>8WH8 140-2AB25</p> <p>8WH8 140-2AB35</p> <p>8WH8 140-2AB45</p> <p>8WH8 140-2AB55</p> <p>8WH8 140-2AB65</p> <p>8WH8 140-2AB75</p> <p>8WH8 140-2AB85</p> <p>8WH8 140-2AC05</p> <p>8WH8 140-2XA05</p>		044	100
 <p>8WH8 110-2AA05</p> <p>Labeling plates, front, for terminal width 5.2 mm, blank</p>	8WH8 110-2AA05		044	100
Accessories	Section	Page		
Labeling plates, flat, for terminal width 5.2 mm, horizontal inscription	Accessories	6/10	8WH8 121-2AB..	044 10
Labeling plates, flat, for terminal width 5.2 mm, vertical inscription	Accessories	6/10	8WH8 141-2AB..	044 10
Labeling plates, flat, for terminal width 5.2 mm, blank	Accessories	6/10	8WH8 111-2AA05	044 10
 <p>8WH9 040-3AB08</p> <p>Fused connectors</p> <p>In fused connectors, 5 x 20 mm G fuses can be fitted ($I_{max} = 6.3 A$)</p> <ul style="list-style-type: none"> • With LED display for 12 to 30 V • With LED display for 30 to 60 V • With LED display for 110 to 250 V • Without LED display <p>Note</p> <ul style="list-style-type: none"> • Select G fuse holders according to the max. power loss (heat dissipation) of the G fuse links. Test the heating conditions in enclosed fuse holders, which depend on application and installation method. • Higher ambient temperatures present an additional burden for the fuse links. In this case, take the offset of the rated current into account. • Max. power loss at 23 °C (according to IEC 60947-7-3): When selecting G fuses, make sure that they do not exceed the maximum power loss specified in section <i>Technical specifications</i>. For specification details, contact the fuse manufacturer. 	<p>8WH9 040-3AB08</p> <p>8WH9 040-3BB08</p> <p>8WH9 040-3CB08</p> <p>8WH9 040-3DB08</p>		044	10
 <p>8WH9 040-3DB08</p>				
<p>Connecting combs, for terminal width 5.2 mm²</p> <ul style="list-style-type: none"> • 2-pole • 3-pole • 4-pole • 5-pole • 10-pole • 20-pole • 50-pole 	<p>8WH9 020-6BC10</p> <p>8WH9 020-6BD10</p> <p>8WH9 020-6BE10</p> <p>8WH9 020-6BF10</p> <p>8WH9 020-6BL10</p> <p>8WH9 020-6BS10</p> <p>8WH9 020-6BT10</p>		044	50
 <p>8WH9 040-0DB04</p> <p>Isolating plugs</p> <p>Orange</p>	8WH9 040-0DB04		044	50