

# ALPHA FIX Terminal Blocks

## ALPHA FIX 8WA and 8WH 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 020-0AF00 / -5DF00 / -5BF00 / -5JF30 / -5JF60 / -5JF80 / -5HF00 / -5FF00 / -5KF00 / -5EF00 / -5GF00
<b>Dimensions</b>	
• 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
<b>Technical specifications acc. to IEC/DIN VDE</b>	
• Max. load current per cross-section in A / mm <sup>2</sup>	26 / 4
• Rated impulse withstand voltage/degree of pollution in kV / - 4 / 3	4 / 3
• Overvoltage category/insulating group - / -	III / I
<b>Connection capacity</b>	
• Flexible with ferrule with plastic sleeve in mm <sup>2</sup>	0.25 ... 2.5
• Flexible with ferrule without plastic sleeve in mm <sup>2</sup>	0.25 ... 2.5
• Flexible with TWIN ferrule with plastic sleeve in mm <sup>2</sup>	0.5
<b>Stripped length in mm</b>	10
<b>Plug gage (IEC 60947-1)</b>	A3
<b>Insulation type</b>	PA
• Flammability class acc. to UL 94	V0
<b>Approval data (UL/CUL and CSA)</b>	
• Nominal voltage/current / cable sizes	
- UL/CUL: in V/A / AWG	300 / 20 / 26-12
- CSA: in V/A / AWG	300 / 20 / 26-12


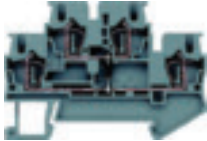
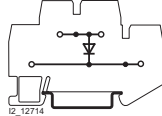
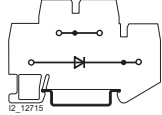
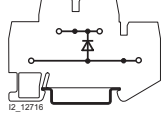
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### 8WH two-tier diode terminals

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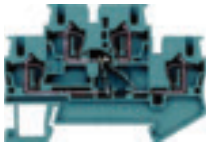

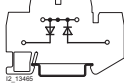
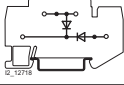
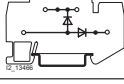
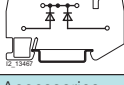

#### Selection and ordering data

Version	Order No.	Price	PG	PS* P. unit
		1 unit		Unit(s)
<b>General details</b>				
<ul style="list-style-type: none"> <li>•  US</li> </ul>				
<b>Terminal size 2.5 mm<sup>2</sup></b>				
 <p>8WH2 020-5AF00</p>	<b>Two-tier diode terminal, terminal size 2.5 mm<sup>2</sup>, with one diode</b> <ul style="list-style-type: none"> <li>• Terminal width 5.2 mm</li> <li>• Supply data                             <ul style="list-style-type: none"> <li>- Rigid 0.08 - 4 mm<sup>2</sup></li> <li>- Flexible 0.08 - 2.5 mm<sup>2</sup></li> <li>- AWG 28-12</li> <li>- I = 26 A</li> <li>- U = 500 V</li> </ul> </li> <li>• The maximum current is determined by the diode</li> <li>• Integrated: diode 1N 4007</li> <li>• Blocking voltage: 1300 V</li> <li>• Uninterrupted limiting current: 0.5 A</li> </ul>			
	<b>Circuit diagram</b>	<b>Versions</b>		
	 <p>Let-through from top to bottom</p>	<b>8WH2 020-5AF00</b>	044	50
	 <p>Let-through from bottom left to bottom right</p>	<b>8WH2 020-5DF00</b>	044	50
 <p>Let-through from bottom to top</p>	<b>8WH2 020-5BF00</b>	044	50	
<b>Accessories</b>	<b>Section</b>	<b>Page</b>		
<b>Compartment partitions, for terminal size 1.5 to 4 mm<sup>2</sup></b>	Accessories	2/87	<b>8WH9 070-0BA00</b>	044 50
<b>Covers, for terminal size 1.5 and 2.5 mm<sup>2</sup></b>	Accessories	2/87	<b>8WH9 000-1VA00</b>	044 50
<b>Connecting combs, for terminal width 5.2 mm</b>				
• 2-pole	Accessories	2/87	<b>8WH9 020-6BC10</b>	044 50
• 3-pole	Accessories	2/87	<b>8WH9 020-6BD10</b>	044 50
• 4-pole	Accessories	2/87	<b>8WH9 020-6BE10</b>	044 50
• 5-pole	Accessories	2/87	<b>8WH9 020-6BF10</b>	044 50
• 10-pole	Accessories	2/87	<b>8WH9 020-6BL10</b>	044 10
• 20-pole	Accessories	2/87	<b>8WH9 020-6BS10</b>	044 10
• 50-pole	Accessories	2/87	<b>8WH9 020-6BT10</b>	044 10

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### 8WH two-tier diode terminals




Version	Order No.	Price	PG	PS* P. unit
		1 unit		Unit(s)
 <p><b>Two-tier diode terminals, terminal size 2.5 mm<sup>2</sup>, with two diodes</b></p> <ul style="list-style-type: none"> <li>Terminal width 5.2 mm</li> <li>Supply data           <ul style="list-style-type: none"> <li>Rigid 0.08 - 4 mm<sup>2</sup></li> <li>Flexible 0.08 - 2.5 mm<sup>2</sup></li> <li>AWG 28-12</li> <li>I = 26 A</li> <li>U = 500 V</li> </ul> </li> <li>The maximum current is determined by the diode</li> <li>Integrated: diode 1N 4007</li> <li>Blocking voltage: 1300 V</li> <li>Uninterrupted limiting current: 0.5 A</li> </ul>				
<b>Circuit diagram</b>				
	<b>8WH2 020-5HF00</b>		044	50
	<b>8WH2 020-5FF00</b>		044	50
	<b>8WH2 020-5KF00</b>		044	50
	<b>8WH2 020-5EF00</b>		044	50
	<b>8WH2 020-5GF00</b>		044	50
<b>Accessories</b>	<b>Section</b>	<b>Page</b>		
<b>Compartment partitions, for terminal size 1.5 to 4 mm<sup>2</sup></b>	Accessories	2/87	<b>8WH9 070-0BA00</b>	044 50
<b>Covers, for terminal size 1.5 and 2.5 mm<sup>2</sup></b>	Accessories	2/87	<b>8WH9 000-1VA00</b>	044 50
<b>Connecting combs, for terminal width 5.2 mm</b>				
• 2-pole	Accessories	2/87	<b>8WH9 020-6BC10</b>	044 50
• 3-pole	Accessories	2/87	<b>8WH9 020-6BD10</b>	044 50
• 4-pole	Accessories	2/87	<b>8WH9 020-6BE10</b>	044 50
• 5-pole	Accessories	2/87	<b>8WH9 020-6BF10</b>	044 50
• 10-pole	Accessories	2/87	<b>8WH9 020-6BL10</b>	044 10
• 20-pole	Accessories	2/87	<b>8WH9 020-6BS10</b>	044 10
• 50-pole	Accessories	2/87	<b>8WH9 020-6BT10</b>	044 10
 <p><b>Two-tier diode terminals, terminal size 2.5 mm<sup>2</sup>, with LED display</b></p> <ul style="list-style-type: none"> <li>Terminal width 5.2 mm</li> <li>Supply data           <ul style="list-style-type: none"> <li>Rigid 0.08 - 4 mm<sup>2</sup></li> <li>Flexible 0.08 - 2.5 mm<sup>2</sup></li> <li>AWG 28-12</li> <li>I = 26 A</li> <li>U = 500 V</li> </ul> </li> </ul>				
<b>Versions</b>				
• 15 to 30 V DC / 2.5 to 7.5 A			<b>8WH2 020-5JF30</b>	044 50
• 30 to 60 V DC / 1.9 to 4.0 A			<b>8WH2 020-5JF60</b>	044 50
• 110 to 230 V AC/DC / 0.5 to 1.0 A			<b>8WH2 020-5JF80</b>	044 50
<b>Accessories</b>	<b>Section</b>	<b>Page</b>		
<b>Compartment partitions, for terminal size 1.5 to 4 mm<sup>2</sup></b>	Accessories	2/87	<b>8WH9 070-0BA00</b>	044 50
<b>Covers, for terminal size 1.5 and 2.5 mm<sup>2</sup></b>	Accessories	2/87	<b>8WH9 000-1VA00</b>	044 50
<b>Connecting combs, for terminal width 5.2 mm</b>				
• 2-pole	Accessories	2/87	<b>8WH9 020-6BC10</b>	044 50
• 3-pole	Accessories	2/87	<b>8WH9 020-6BD10</b>	044 50
• 4-pole	Accessories	2/87	<b>8WH9 020-6BE10</b>	044 50
• 5-pole	Accessories	2/87	<b>8WH9 020-6BF10</b>	044 50
• 10-pole	Accessories	2/87	<b>8WH9 020-6BL10</b>	044 10
• 20-pole	Accessories	2/87	<b>8WH9 020-6BS10</b>	044 10
• 50-pole	Accessories	2/87	<b>8WH9 020-6BT10</b>	044 10

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## ALPHA FIX 8WA and 8WH Terminals with Spring-Loaded Connection

### 8WH two-tier diode terminals

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Version	Order No.	Price 1 unit	PG	PS* P. unit Unit(s)
<b>Accessories</b>				
	<b>Compartment partitions, for terminal size 1.5 to 4 mm<sup>2</sup></b>	<b>8WH9 070-0BA00</b>	044	50
	<b>Covers, for terminal size 1.5 and 2.5 mm<sup>2</sup></b>	<b>8WH9 000-1VA00</b>	044	50
 8WH8 121-2AB05	<b>Labeling plates, flat, for terminal width 5.2 mm, horizontal inscription</b> <ul style="list-style-type: none"> <li>• Incremental numbering <ul style="list-style-type: none"> <li>- 1 to 10 (10x)</li> <li>- 11 to 20 (10x)</li> <li>- 21 to 30 (10x)</li> <li>- 31 to 40 (10x)</li> <li>- 41 to 50 (10x)</li> <li>- 51 to 60 (10x)</li> <li>- 61 to 70 (10x)</li> <li>- 71 to 80 (10x)</li> <li>- 81 to 90 (10x)</li> <li>- 91 to 100 (10x)</li> </ul> </li> <li>• Custom inscription</li> </ul>	<b>8WH8 121-2AB05</b> <b>8WH8 121-2AB15</b> <b>8WH8 121-2AB25</b> <b>8WH8 121-2AB35</b> <b>8WH8 121-2AB45</b> <b>8WH8 121-2AB55</b> <b>8WH8 121-2AB65</b> <b>8WH8 121-2AB75</b> <b>8WH8 121-2AB85</b> <b>8WH8 121-2AC05</b> <b>8WH8 121-2XA05</b>	044 044 044 044 044 044 044 044 044 044 044	100 100 100 100 100 100 100 100 100 100 100
 8WH8 141-2AB05	<b>Labeling plates, flat, for terminal width 5.2 mm, vertical inscription</b> <ul style="list-style-type: none"> <li>• Incremental numbering <ul style="list-style-type: none"> <li>- 1 to 10 (10x)</li> <li>- 11 to 20 (10x)</li> <li>- 21 to 30 (10x)</li> <li>- 31 to 40 (10x)</li> <li>- 41 to 50 (10x)</li> <li>- 51 to 60 (10x)</li> <li>- 61 to 70 (10x)</li> <li>- 71 to 80 (10x)</li> <li>- 81 to 90 (10x)</li> <li>- 91 to 100 (10x)</li> </ul> </li> <li>• Customized inscription</li> </ul>	<b>8WH8 141-2AB05</b> <b>8WH8 141-2AB15</b> <b>8WH8 141-2AB25</b> <b>8WH8 141-2AB35</b> <b>8WH8 141-2AB45</b> <b>8WH8 141-2AB55</b> <b>8WH8 141-2AB65</b> <b>8WH8 141-2AB75</b> <b>8WH8 141-2AB85</b> <b>8WH8 141-2AC05</b> <b>8WH8 141-2XA05</b>	044 044 044 044 044 044 044 044 044 044 044	100 100 100 100 100 100 100 100 100 100 100
 8WH8 111-2AA05	<b>Labeling plates, flat, for terminal width 5.2 mm, blank</b>	<b>8WH8 111-2AA05</b>	044	100
	<b>Connecting combs, for terminal width 5.2 mm</b> <ul style="list-style-type: none"> <li>• 2-pole</li> <li>• 3-pole</li> <li>• 4-pole</li> <li>• 5-pole</li> <li>• 10-pole</li> <li>• 20-pole</li> <li>• 50-pole</li> </ul>	<b>8WH9 020-6BC10</b> <b>8WH9 020-6BD10</b> <b>8WH9 020-6BE10</b> <b>8WH9 020-6BF10</b> <b>8WH9 020-6BL10</b> <b>8WH9 020-6BS10</b> <b>8WH9 020-6BT10</b>	044 044 044 044 044 044 044	50 50 50 50 10 10 10