

# ALPHA FIX Terminal Blocks

## Screw Terminals

NEW

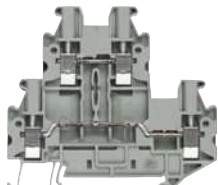
8WH two-tier terminals

	8WH1 025-0AF00	8WH1 025-0AG00
Dimensions		
• Width / length / width of cover in mm	6.2 / 69.9 / 2.2	
• Height (NS 35/7.5 / NS 35/15) in mm	65 / 72.5	
Technical specifications acc. to IEC/DIN VDE		
• Max. load current in A / cross-section in mm <sup>2</sup>	28 / 4	36 / 6
• Rated impulse withstand voltage in kV / pollution degree	6 kV/3	8 kV/3
• Rated insulation voltage (working voltage) $U_i$ in V acc. to IEC 60497-7-1	500	
• Overvoltage category / insulating group	III / I	
Connection capacities		
• Flexible with end sleeve with plastic sleeve in mm <sup>2</sup>	0.25 ... 2.5	0.25 ... 4
• Flexible with end sleeve without plastic sleeve in mm <sup>2</sup>	0.25 ... 2.5	0.25 ... 4
• Flexible with two-wire connection end sleeve with plastic sleeve in mm <sup>2</sup>	0.5 ... 1.5	0.5 ... 2.5
• Rigid in mm <sup>2</sup>	0.14 ... 4	0.14 ... 6
Stripped length in mm	9	
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	600 / 30 / 26-10
- CSA: in V/A / AWG	-- / -- / --	

### Selection and ordering data

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

#### Terminal size 2.5 mm<sup>2</sup>



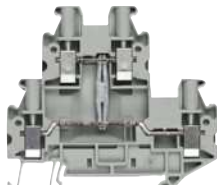
8WH1 020-0AF00

#### Two-tier terminals, terminal size 2.5 mm<sup>2</sup>

- C<sup>UL</sup> US
- Ⓢ
- Terminal width 5.2 mm
- $I_{max} = 28$  A
- $U_{max} = 500$  V
- AWG 26-12
- Connection capacity, one conductor
  - Rigid, 0.14 ... 4 mm<sup>2</sup>
  - Flexible, 0.14 ... 4 mm<sup>2</sup>
- Connection capacity, two conductors
  - Rigid, 0.14 ... 1.5 mm<sup>2</sup>
  - Flexible, 0.14 ... 1.5 mm<sup>2</sup>

#### Versions

- Gray
  - Without equipotential bonding
  - With equipotential bonding
- Blue
  - Without equipotential bonding



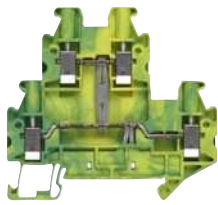
8WH1 025-0AF00

#### Accessories

Accessories	Section	Page	DT	Order No.	Price per PU	PU Unit(s)	PS* / P. unit Unit(s)	PG
• Covers, for two-tier terminals, for terminal size 2.5 ... 4 mm <sup>2</sup>	Accessories	10/48	C	8WH9 000-1QA00		100	50	044
• Spacer plates, for two-tier terminals, for terminal size 2.5 ... 4 mm <sup>2</sup>	dto.	10/48	C	8WH9 160-0AA00		100	50	044
• Compartment partitions, for two-tier terminals for terminal size 2.5 ... 4 mm <sup>2</sup>	dto.	10/48	C	8WH9 070-6FA00		100	50	044

#### PE two-tier terminals, terminal size 2.5 mm<sup>2</sup>

- C<sup>UL</sup> US
- Ⓢ
- Terminal width 5.2 mm
- AWG 26-12
- Connection capacity, one conductor
  - Rigid, 0.14 ... 4 mm<sup>2</sup>
  - Flexible, 0.14 ... 4 mm<sup>2</sup>
- Connection capacity, two conductors
  - Rigid, 0.14 ... 1.5 mm<sup>2</sup>
  - Flexible, 0.14 ... 1.5 mm<sup>2</sup>
- Green-yellow



8WH1 020-0CF07

#### Accessories

Accessories	Section	Page	DT	Order No.	Price per PU	PU Unit(s)	PS* / P. unit Unit(s)	PG
• Covers, for two-tier terminals, for terminal size 2.5 ... 4 mm <sup>2</sup>	Accessories	10/48	C	8WH9 000-1QA00		100	50	044
• Spacer plates, for two-tier terminals, for terminal size 2.5 ... 4 mm <sup>2</sup>	dto.	10/48	C	8WH9 160-0AA00		100	50	044
• Compartment partitions, for two-tier terminals for terminal size 2.5 ... 4 mm <sup>2</sup>	dto.	10/48	C	8WH9 070-6FA00		100	50	044

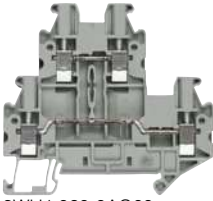




10

# ALPHA FIX Terminal Blocks

## Screw Terminals

### 8WH two-tier terminals



Version	DT	Order No.	Price per PU	PU Unit(s)	PS*/ P. unit Unit(s)	PG																												
<b>Terminal size 4 mm<sup>2</sup></b>																																		
 <p><b>Two-tier terminals, terminal size 4 mm<sup>2</sup></b></p> <ul style="list-style-type: none"> <li>• C<sup>UL</sup> US</li> <li>• Terminal width 6.2 mm</li> <li>• <math>I_{max} = 36</math> A</li> <li>• <math>U_{max} = 800</math> V</li> <li>• AWG 26-10</li> <li>• Connection capacity, one conductor           <ul style="list-style-type: none"> <li>- Rigid, 0.14 ... 6 mm<sup>2</sup></li> <li>- Flexible, 0.14 ... 6 mm<sup>2</sup></li> </ul> </li> <li>• Connection capacity, two conductors           <ul style="list-style-type: none"> <li>- Rigid, 0.14 ... 1.5 mm<sup>2</sup></li> <li>- Flexible, 0.14 ... 1.5 mm<sup>2</sup></li> </ul> </li> </ul> <p>Versions</p> <ul style="list-style-type: none"> <li>• Gray           <ul style="list-style-type: none"> <li>- Without equipotential bonding</li> <li>- With equipotential bonding</li> </ul> </li> <li>• Blue           <ul style="list-style-type: none"> <li>- Without equipotential bonding</li> </ul> </li> </ul> <p>Accessories</p> <table border="1"> <thead> <tr> <th>Accessories</th> <th>Section</th> <th>Page</th> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>• Covers, for two-tier terminals, for terminal size 2.5 ... 4 mm<sup>2</sup></td> <td>Accessories</td> <td>10/48</td> <td>C</td> <td><b>8WH9 000-1QA00</b></td> <td>100</td> <td>50 044</td> </tr> <tr> <td>• Spacer plates, for two-tier terminals, for terminal size 2.5 ... 4 mm<sup>2</sup></td> <td>dto.</td> <td>10/48</td> <td>C</td> <td><b>8WH9 160-0AA00</b></td> <td>100</td> <td>50 044</td> </tr> <tr> <td>• Compartment partitions, for two-tier terminals for terminal size 2.5 ... 4 mm<sup>2</sup></td> <td>dto.</td> <td>10/48</td> <td>C</td> <td><b>8WH9 070-6FA00</b></td> <td>100</td> <td>50 044</td> </tr> </tbody> </table>							Accessories	Section	Page					• Covers, for two-tier terminals, for terminal size 2.5 ... 4 mm <sup>2</sup>	Accessories	10/48	C	<b>8WH9 000-1QA00</b>	100	50 044	• Spacer plates, for two-tier terminals, for terminal size 2.5 ... 4 mm <sup>2</sup>	dto.	10/48	C	<b>8WH9 160-0AA00</b>	100	50 044	• Compartment partitions, for two-tier terminals for terminal size 2.5 ... 4 mm <sup>2</sup>	dto.	10/48	C	<b>8WH9 070-6FA00</b>	100	50 044
Accessories	Section	Page																																
• Covers, for two-tier terminals, for terminal size 2.5 ... 4 mm <sup>2</sup>	Accessories	10/48	C	<b>8WH9 000-1QA00</b>	100	50 044																												
• Spacer plates, for two-tier terminals, for terminal size 2.5 ... 4 mm <sup>2</sup>	dto.	10/48	C	<b>8WH9 160-0AA00</b>	100	50 044																												
• Compartment partitions, for two-tier terminals for terminal size 2.5 ... 4 mm <sup>2</sup>	dto.	10/48	C	<b>8WH9 070-6FA00</b>	100	50 044																												
 <p><b>PE two-tier terminals, terminal size 4 mm<sup>2</sup></b></p> <ul style="list-style-type: none"> <li>• C<sup>UL</sup> US</li> <li>• Terminal width 6.2 mm</li> <li>• AWG 26-10</li> <li>• Connection capacity, one conductor           <ul style="list-style-type: none"> <li>- Rigid, 0.14 ... 6 mm<sup>2</sup></li> <li>- Flexible, 0.14 ... 6 mm<sup>2</sup></li> </ul> </li> <li>• Connection capacity, two conductors           <ul style="list-style-type: none"> <li>- Rigid, 0.14 ... 1.5 mm<sup>2</sup></li> <li>- Flexible, 0.14 ... 1.5 mm<sup>2</sup></li> </ul> </li> <li>• Green-yellow</li> </ul> <p>Accessories</p> <table border="1"> <thead> <tr> <th>Accessories</th> <th>Section</th> <th>Page</th> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>• Covers, for two-tier terminals, for terminal size 2.5 ... 4 mm<sup>2</sup></td> <td>Accessories</td> <td>10/48</td> <td>C</td> <td><b>8WH9 000-1QA00</b></td> <td>100</td> <td>50 044</td> </tr> <tr> <td>• Spacer plates, for two-tier terminals, for terminal size 2.5 ... 4 mm<sup>2</sup></td> <td>dto.</td> <td>10/48</td> <td>C</td> <td><b>8WH9 160-0AA00</b></td> <td>100</td> <td>50 044</td> </tr> <tr> <td>• Compartment partitions, for two-tier terminals for terminal size 2.5 ... 4 mm<sup>2</sup></td> <td>dto.</td> <td>10/48</td> <td>C</td> <td><b>8WH9 070-6FA00</b></td> <td>100</td> <td>50 044</td> </tr> </tbody> </table>							Accessories	Section	Page					• Covers, for two-tier terminals, for terminal size 2.5 ... 4 mm <sup>2</sup>	Accessories	10/48	C	<b>8WH9 000-1QA00</b>	100	50 044	• Spacer plates, for two-tier terminals, for terminal size 2.5 ... 4 mm <sup>2</sup>	dto.	10/48	C	<b>8WH9 160-0AA00</b>	100	50 044	• Compartment partitions, for two-tier terminals for terminal size 2.5 ... 4 mm <sup>2</sup>	dto.	10/48	C	<b>8WH9 070-6FA00</b>	100	50 044
Accessories	Section	Page																																
• Covers, for two-tier terminals, for terminal size 2.5 ... 4 mm <sup>2</sup>	Accessories	10/48	C	<b>8WH9 000-1QA00</b>	100	50 044																												
• Spacer plates, for two-tier terminals, for terminal size 2.5 ... 4 mm <sup>2</sup>	dto.	10/48	C	<b>8WH9 160-0AA00</b>	100	50 044																												
• Compartment partitions, for two-tier terminals for terminal size 2.5 ... 4 mm <sup>2</sup>	dto.	10/48	C	<b>8WH9 070-6FA00</b>	100	50 044																												
<b>Accessories</b>																																		
 <p><b>Covers, for two-tier terminals, for terminal size 2.5 ... 4 mm<sup>2</sup></b></p> <ul style="list-style-type: none"> <li>• Width 2.2 mm</li> <li>• Gray</li> </ul>																																		
 <p><b>Spacer plates, for two-tier terminals, for terminal size 2.5 ... 4 mm<sup>2</sup></b></p> <ul style="list-style-type: none"> <li>• Compensates for tier offset if other terminals are mounted</li> <li>• 2.5 mm thick</li> <li>• Gray</li> </ul>																																		
 <p><b>Compartment partitions, for two-tier terminals for terminal size 2.5 ... 4 mm<sup>2</sup></b></p> <ul style="list-style-type: none"> <li>• For visual and electrical separation of terminal groups</li> <li>• 2 mm thick</li> <li>• Gray</li> </ul>																																		

10

# ALPHA FIX Terminal Blocks

## Screw Terminals

NEW

**8WH two-tier terminals  
with isolating function/isolating blade**

### Overview



Two-tier terminals with isolating function/isolating blade are also available with the same contour as 8WH two-tier terminals. An increasing number of contact points need to be wired in the same space in the signal wiring. The two voltage levels routed through two separate tiers require 50 % less space than equivalent single-tier terminals. To implement a wide range of switching tasks, particularly in MSR technology, an isolating blade or isolating plug, and a component plug or a fused plug for 5 x 20 mm glass tube fuses, can be used alternatively in the standardized separation zone in the upper level. The looping of measuring instruments is possible over the terminal screws with integrated test socket so that rated and current measurements can be performed on both tiers without interruption. The tier offset makes access to the lower tier much easier.

### Technical specifications

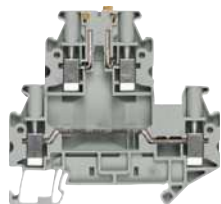
	8WH1 020-6AC00	8WH1 020-6AG00
Dimensions		
• Width / length / width of cover in mm	6.2 / 69.9 / 2.2	
• Height (NS 35/7.5 / NS 35/15) in mm	65 / 72.5	
Technical specifications acc. to IEC/DIN VDE		
• Max. load current in A / cross-section in mm <sup>2</sup>	38 <sup>1)</sup> / 6	
• Rated impulse withstand voltage in kV / pollution degree	6 kV/3	
• Rated insulation voltage (working voltage) $U_i$ in V acc. to IEC 60497-7-1	500	
• Overvoltage category / insulating group	III / I	
Connection capacities		
• Flexible with end sleeve with plastic sleeve in mm <sup>2</sup>	0.25 ... 4	
• Flexible with end sleeve without plastic sleeve in mm <sup>2</sup>	0.25 ... 4	
• Flexible with two-wire connection end sleeve with plastic sleeve in mm <sup>2</sup>	0.5 ... 2.5	
• Rigid in mm <sup>2</sup>	0.14 ... 6	
Stripped length in mm	9	
Insulation type	PA	
• Flammability class acc. to UL 94	V0	
Approval data (UL/CUL and CSA)		
• Rated voltage / current / cable sizes	600 / 5 / 26-10	
- UL/CUL: in V/A / AWG	-- / -- / --	
- CSA: in V/A / AWG	-- / -- / --	

1) Lower tier.

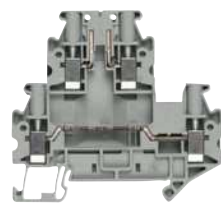
### Selection and ordering data

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

#### Terminal size 4 mm<sup>2</sup>



8WH1 020-6AC00



8WH1 020-6AG00

#### Two-tier terminal, with isolating function/isolating blade, terminal size 4 mm<sup>2</sup>

- US
- 
- Terminal width 6.2 mm
- $I_{max} = 38$  A
- $U_{max} = 500$  V
- AWG 26-10
- Connection capacity, one conductor
  - Rigid, 0.14 ... 6 mm<sup>2</sup>
  - Flexible, 0.14 ... 6 mm<sup>2</sup>
- Connection capacity, two conductors
  - Rigid, 0.14 ... 1.5 mm<sup>2</sup>
  - Flexible, 0.14 ... 1.5 mm<sup>2</sup>

#### Versions

- Isolating link on the top level
- Isolating terminal on the top level

Accessories	Section	Page				
• Covers, for two-tier terminals, for terminal size 2.5 ... 4 mm <sup>2</sup>	Accessories	10/50	C	<b>8WH9 000-1QA00</b>	100	50 044
• Spacer plates, for two-tier terminals, for terminal size 2.5 ... 4 mm <sup>2</sup>	dto.	10/50	C	<b>8WH9 160-0AA00</b>	100	50 044
• Compartment partitions, for two-tier terminals for terminal size 2.5 ... 4 mm <sup>2</sup>	dto.	10/50	C	<b>8WH9 070-6FA00</b>	100	50 044




\* You can order this quantity or a multiple thereof.

# ALPHA FIX Terminal Blocks

## Screw Terminals

### 8WH two-tier terminals with isolating function

NEW

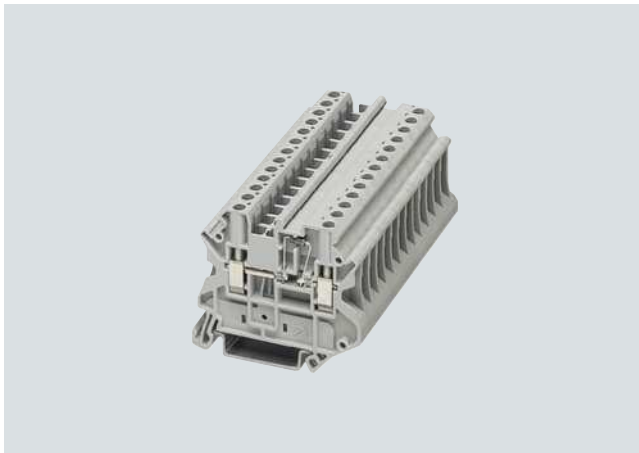
Version	DT	Order No.	Price per PU	PU Unit(s)	PS*/ P. unit Unit(s)	PG
<b>Accessories</b>						
 8WH9 000-1QA00	C	<b>8WH9 000-1QA00</b>		100	50	044
<b>Covers, for two-tier terminals, for terminal size 2.5 ... 4 mm<sup>2</sup></b> <ul style="list-style-type: none"> <li>• Width 2.2 mm</li> <li>• Gray</li> </ul>						
 8WH9 160-0AA00	C	<b>8WH9 160-0AA00</b>		100	50	044
<b>Spacer plates, for two-tier terminals, for terminal size 2.5 ... 4 mm<sup>2</sup></b> <ul style="list-style-type: none"> <li>• Compensates for tier offset if other terminals are mounted</li> <li>• 2.5 mm thick</li> <li>• Gray</li> </ul>						
 8WH9 070-6FA00	C	<b>8WH9 070-6FA00</b>		100	50	044
<b>Compartment partitions, for two-tier terminals for terminal size 2.5 ... 4 mm<sup>2</sup></b> <ul style="list-style-type: none"> <li>• For visual and electrical separation of terminal groups</li> <li>• 2 mm thick</li> <li>• Gray</li> </ul>						

10

### 8WH diode terminals

NEW

#### Overview



8WH diode terminals can be used to implement many different switching tasks. The 1N 4007 diode is soldered in from left to right or vice versa as required. The double bridge slot allows for combination with all standard and function terminals. The 8WH diode terminals have the same contour as the 8WH isolating, isolating blade and fuse terminals. This has the advantage of enabling consistent inscriptions on all clamping points. Secure electrical and mechanical contact with the support rail is assured by simply snapping the terminals onto the rail.

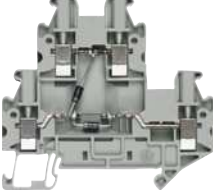



# ALPHA FIX Terminal Blocks

## Screw Terminals

NEW

8WH two-tier diode terminals

### Selection and ordering data

Version	DT	Order No.	Price per PU	PU Unit(s)	PS* P. unit Unit(s)	PG
<b>Terminal size 2.5 mm<sup>2</sup></b>						
 <p><b>Two-tier diode terminals, terminal size 2.5mm<sup>2</sup></b></p> <ul style="list-style-type: none"> <li>• C<sup>1</sup> US</li> <li>• Ⓢ</li> <li>• Terminal width 6.2 mm</li> <li>• <math>I_{max} = 0.5 \text{ A}</math></li> <li>• <math>U_{max} = 800 \text{ V}</math></li> <li>• AWG 26-10</li> <li>• Connection capacity, one conductor <ul style="list-style-type: none"> <li>- Rigid, 0.14 ... 6 mm<sup>2</sup></li> <li>- Flexible, 0.14 ... 6 mm<sup>2</sup></li> </ul> </li> <li>• Connection capacity, two conductors <ul style="list-style-type: none"> <li>- Rigid, 0.14 ... 1.5 mm<sup>2</sup></li> <li>- Flexible, 0.14 ... 1.5 mm<sup>2</sup></li> </ul> </li> <li>• With integrated diode: 1N 4007</li> <li>• Gray</li> </ul>						
<b>Versions</b>						
• With integrated 1N 4007 diode						
- Let-through from top to bottom	C	<b>8WH1 020-5AF00</b>		1	50	044
- Let-through from bottom to top	C	<b>8WH1 020-5BF00</b>		1	50	044
- Let-through from bottom left to bottom right	C	<b>8WH1 020-5DF00</b>		1	50	044
• With two integrated 1N 4007 diodes						
- Let-through from top to bottom left and from bottom right to bottom left	C	<b>8WH1 020-5FF00</b>		1	50	044
- Let-through from top to bottom left and from top to bottom right	C	<b>8WH1 020-5HF00</b>		1	50	044
<b>Accessories</b>						
• Covers, for two-tier terminals, for terminal size 2.5 ... 4 mm <sup>2</sup>	Accessories	10/53	C	<b>8WH9 000-1QA00</b>	100	50 044
• Spacer plates, for two-tier terminals, for terminal size 2.5 ... 4 mm <sup>2</sup>	dto.	10/53	C	<b>8WH9 160-0AA00</b>	100	50 044
• Compartment partitions, for two-tier terminals for terminal size 2.5 ... 4 mm <sup>2</sup>	dto.	10/53	C	<b>8WH9 070-6FA00</b>	100	50 044
<b>Accessories</b>						
 <p><b>Covers, for two-tier terminals, for terminal size 2.5 ... 4 mm<sup>2</sup></b></p> <ul style="list-style-type: none"> <li>• Width 2.2 mm</li> <li>• Gray</li> </ul>						
8WH9 000-1QA00			C	<b>8WH9 000-1QA00</b>	100	50 044
 <p><b>Spacer plates, for two-tier terminals, for terminal size 2.5 ... 4 mm<sup>2</sup></b></p> <ul style="list-style-type: none"> <li>• Compensates for tier offset if other terminals are mounted</li> <li>• 2.5 mm thick</li> <li>• Gray</li> </ul>						
8WH9 160-0AA00			C	<b>8WH9 160-0AA00</b>	100	50 044
 <p><b>Compartment partitions, for two-tier terminals for terminal size 2.5 ... 4 mm<sup>2</sup></b></p> <ul style="list-style-type: none"> <li>• For visual and electrical separation of terminal groups</li> <li>• 2 mm thick</li> <li>• Gray</li> </ul>						
8WH9 070-6FA00			C	<b>8WH9 070-6FA00</b>	100	50 044

10

\* You can order this quantity or a multiple thereof.