

# 3

## ALPHA FIX 8WH Combination Plug-In Terminals

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|      |   |
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<sup>1)</sup> Also available as PE (Ground) version.



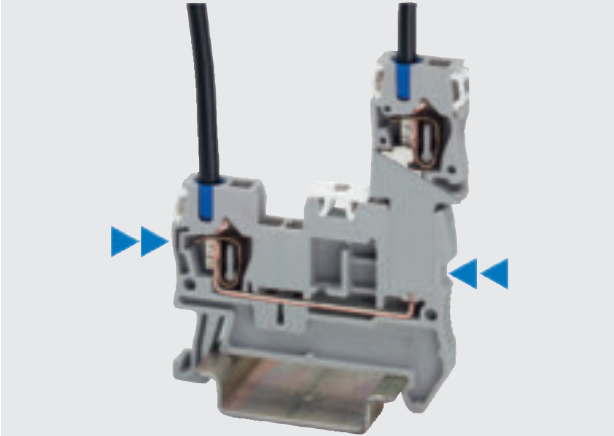
# ALPHA FIX Terminal Blocks

## ALPHA FIX 8WH Combination Plug-In Terminals

### Introduction

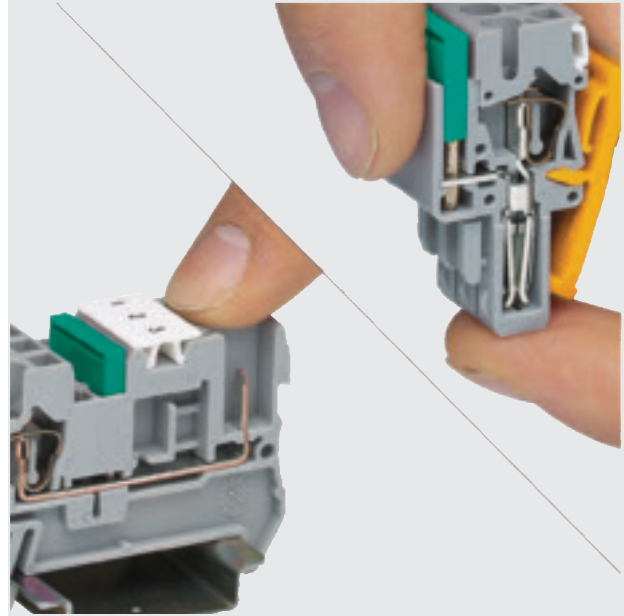
#### Introduction

##### *Space-saving design*



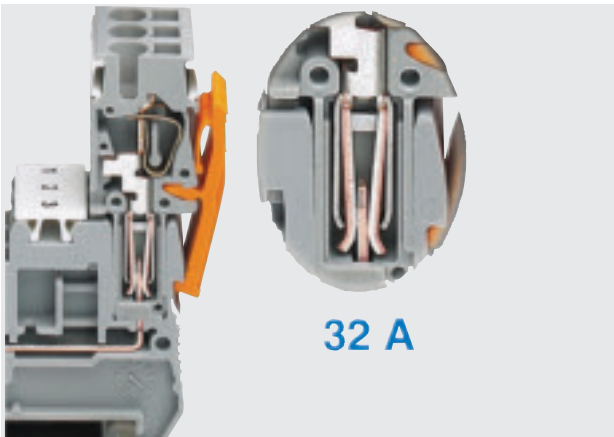
The special spring provides a large connection compartment despite the terminals' space-saving design. Flexible conductors with a nominal cross-section of 4 mm<sup>2</sup> can therefore be easily secured without ferrule in the base terminal and in the plug connector.

##### *Fingerproof design*



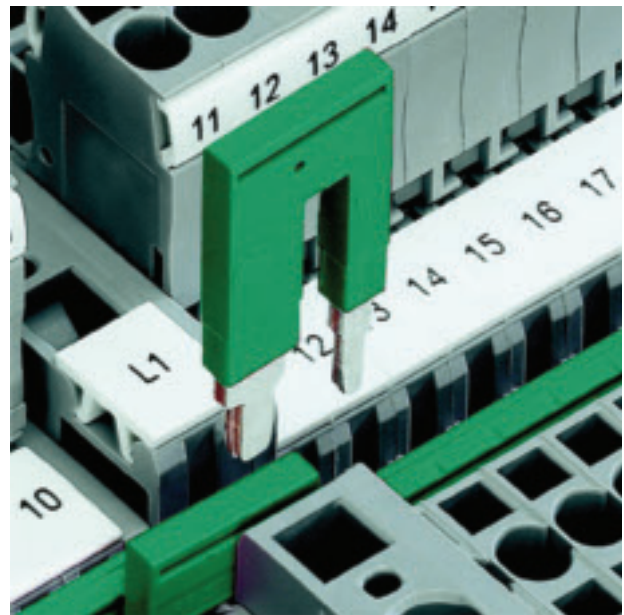
With its fingerproof base terminals and plugs, the combination plug-in terminal system provides maximum user protection. In addition to enhancing safety, this provides exceptional flexibility in engineering: The power can be supplied either through the terminals or the plugs.

##### *Performance contact*



The plug-in system of the combination plug-in terminals, which has been further refined, allows plug-in connections for a rated current of up to 32 A and a rated voltage of 800 V. Due to the built-in overspring, the contact system withstands extreme vibration.

##### *Time- and cost-saving voltage distribution*



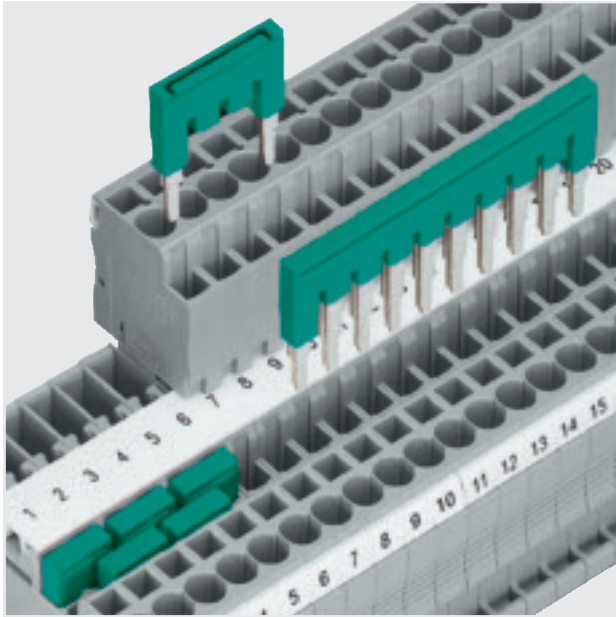
Where power cables with large cross-sections are connected, the reducing comb allows a time- and cost-saving distribution of the potential. The reducing comb can be used, for example, to connect a 10 mm<sup>2</sup> through-type terminal with a 2.5 mm<sup>2</sup> through-type terminal and two connection points.

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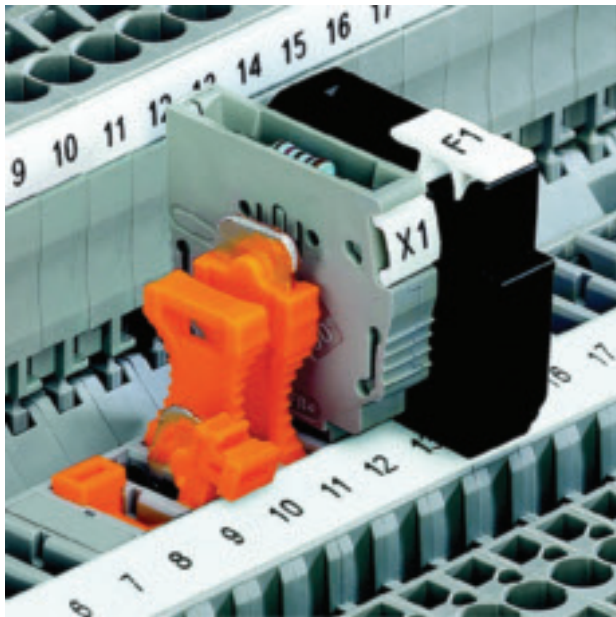
### Introduction

#### Standardized connecting comb system



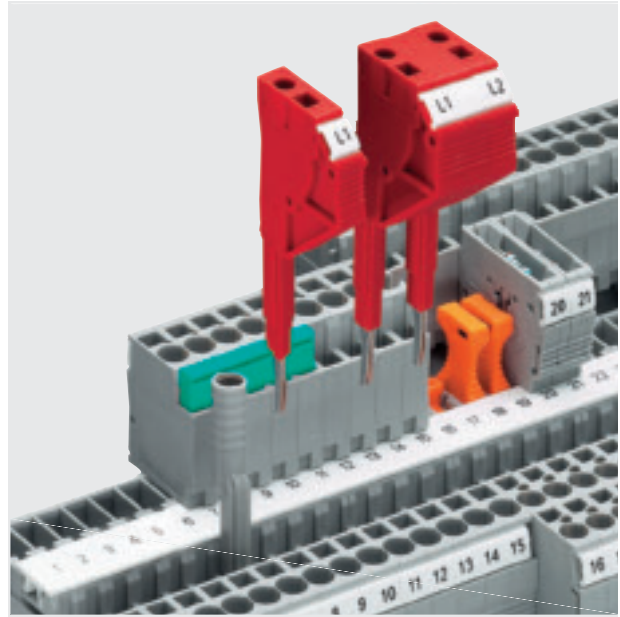
The standardized connecting comb system allows up to 50 terminals to be linked efficiently and quickly with a single jumper. Teeth can be removed to skip individual terminals.

#### Universal plug-in zone



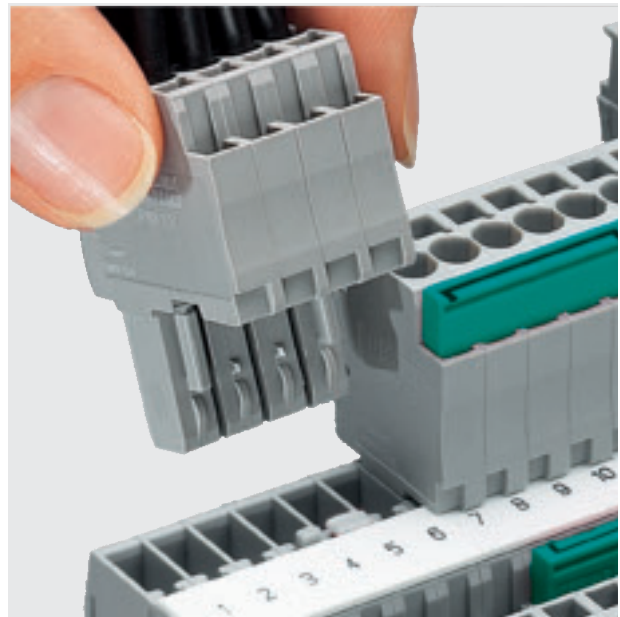
In the isolating terminal's universal plug-in zone, isolated through-type connectors, isolating plugs, component connectors and fused connectors can be fitted.

#### Assembling test adapters



Test adapters are available for  $\varnothing 4$  mm test and safety test plugs. With the test plugs for side-by-side mounting, test adapters can be individually assembled. Test leads can be connected with a  $1.5 \text{ mm}^2$  tension spring connector.

#### Coding the combination plug-in terminals



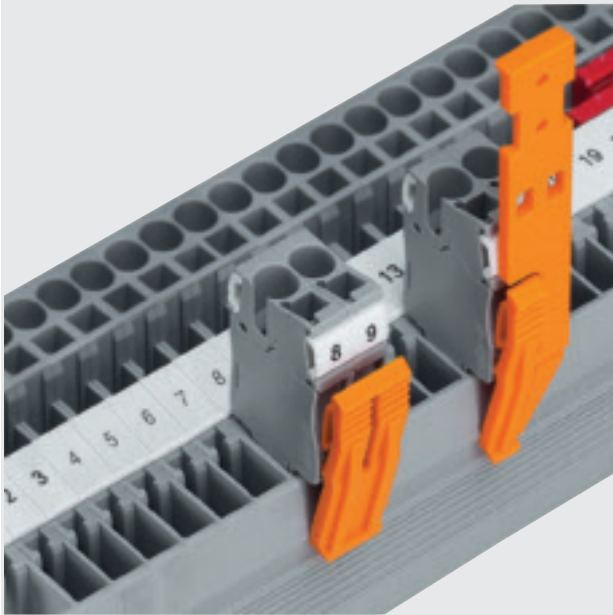
The combination plug-in terminals can be coded with the pin on the plug. The pin is simply removed from the plug, rotated and fitted in the coding position of the base terminal.

# ALPHA FIX Terminal Blocks

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### Introduction

#### *Snap-on strain relief*



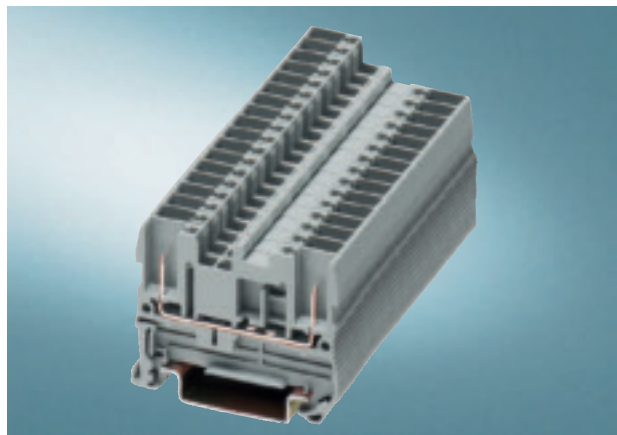
Snap-on clamps are available to relieve cable strain at the plugs. Also available are latches with which the plugs can be firmly secured to the base terminals.

# ALPHA FIX Terminal Blocks

## ALPHA FIX 8WH Combination Plug-In Terminals

### Through-type and PE terminals

#### Overview



To the combination plug-in terminals' through-type terminals, plugs can be connected at both sides, making the combination plug-in terminals system even more flexible and allowing the terminals to be used as connecting elements between modules.

Connectors with a terminal size of 2.5 mm<sup>2</sup> are used, so that the familiar accessories, such as latches, strain relief and shield connectors can be used.

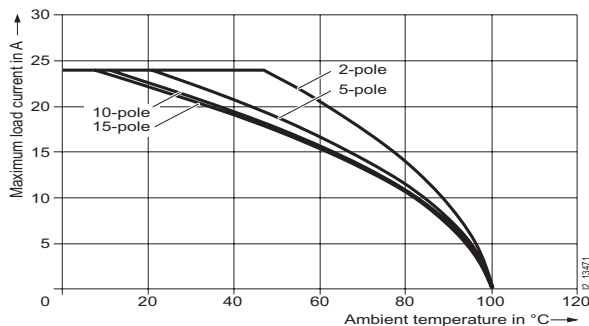
For the base terminals, PE terminals with the same contour are available, which can be simply snapped onto the mounting rail to establish a connection to ground potential.

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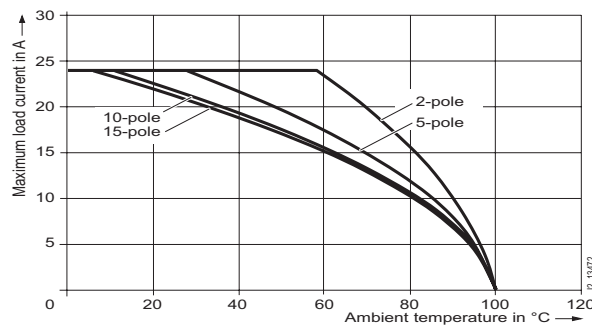
#### Technical specifications

|  | 8WH5 000-0AF00 / -0AF01 | 8WH5 004-0AF00 / -0AF01 | 8WH5 000-0CF07                        | 8WH5 004-0CF07   |
|--|-------------------------|-------------------------|---------------------------------------|------------------|
| <b>Dimensions</b>  |                         |                         |                                       |                  |
| • Width / length / width of cover in mm                                  | 5.2 / 48.5 / 2.2        | 5.2 / 89.5 / 2.2        | 5.2 / 48.5 / 2.2                      | 5.2 / 89.5 / 2.2 |
| • Height (NS 35/7.5 / NS 35/15) in mm                                    | 36.5 / 44               | 36.5 / 44               | 36.5 / 44                             | 36.5 / 44        |
| <b>Technical specifications according to IEC/DIN VDE</b>                 |                         |                         |                                       |                  |
| • Max. load current <sup>1)</sup> per cross-section in A/mm <sup>2</sup> | 24 / 4                  | 24 / 4                  | -                                     | -                |
| • Rated impulse withstand voltage/pollution degree in kV / -             | 6 / 3                   | -                       | -                                     | -                |
| • Overvoltage category/insulating group - / -                            | III / I                 | -                       | -                                     | -                |
| <b>Connection capacities</b>   |                         |                         |                                       |                  |
| • Flexible with ferrule with plastic sleeve in mm <sup>2</sup>           | 0.25 ... 2.5            | -                       | -                                     | -                |
| • Flexible without ferrule with 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>Insulation type</b>   |                         |                         |                                       |                  |
| • Flammability class according to UL 94                                  | PA                      | -                       | -                                     | -                |
| <b>Approval data (UL/CUL and CSA)</b>                                    |                         |                         |                                       |                  |
| • Nominal voltage/current / cable sizes<br>- UL/CUL: in V/A / AWG        | 300 / 20 / -            | -                       | - / - / -<br>See section <i>Plugs</i> | - / - / -        |
| - CSA: in V/A / AWG  | -                       | -                       | -                                     | -                |
| <b>Mounting rail/protective conductor busbars</b>                        |                         |                         | See section <i>Mounting rails</i>     |                  |

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



Derating curve for 8WH5 000-0AF00






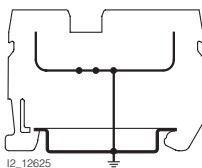
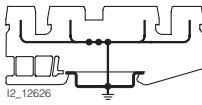
Derating curve for 8WH5 004-0AF00

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## ALPHA FIX 8WH Combination Plug-In Terminals

### Through-type and PE terminals








#### Selection and ordering data

| Version   | Order No.  | Price          | PG          | PS*<br>P. unit        |
|---|--|----------------|-------------|-----------------------|
|   |  | 1 unit         |             | Unit(s)               |
| <b>Terminal size 2.5 mm<sup>2</sup></b>   |  |                |             |                       |
|    | <b>Through-type terminals, terminal size 2.5 mm<sup>2</sup></b>  |                |             |                       |
| 8WH5 000-0AF00  | <ul style="list-style-type: none"> <li>Terminal width 5.2 mm</li> <li>UL US</li> <li>IEC 61984</li> <li>- I = 24 A</li> <li>- U = 500 V</li> </ul>   |                |             |                       |
|    | <b>Versions</b>  |                |             |                       |
| 8WH5 004-0AF00  | <ul style="list-style-type: none"> <li>Gray                             <ul style="list-style-type: none"> <li>- Two connection points</li> <li>- Four connection points</li> </ul> </li> <li>Blue                             <ul style="list-style-type: none"> <li>- Two connection points</li> <li>- Four connection points</li> </ul> </li> </ul> |                |             |                       |
|   | <b>8WH5 000-0AF00</b>  |                | 044         | 50                    |
|   | <b>8WH5 004-0AF00</b>  |                | 044         | 50                    |
|   | <b>8WH5 000-0AF01</b>  |                | 044         | 50                    |
|   | <b>8WH5 004-0AF01</b>  |                | 044         | 50                    |
|   | <b>Note</b>  |                |             |                       |
|   | On terminal with four connection points, the total current through all connected conductors must not exceed the max. load current.   |                |             |                       |
|   | <b>Accessories</b>   | <b>Section</b> | <b>Page</b> |                       |
|   | <b>Compartment partitions for terminal size 1.5 to 4 mm<sup>2</sup></b>  |                |             |                       |
|   | • For two connection points  | Accessories    | 3/7         | <b>8WH9 070-0AA00</b> |
|   | • For four connection points   | Accessories    | 3/7         | <b>8WH9 070-0HA00</b> |
|   | <b>Cover plates, for terminal size 2.5 mm<sup>2</sup></b>  |                |             |                       |
|   | • Two connection points  | Accessories    | 3/7         | <b>8WH9 000-1GA00</b> |
|   | • Four connection points   | Accessories    | 3/7         | <b>8WH9 000-4NA00</b> |
|   | <b>Cover segments, for terminal size 2.5 mm<sup>2</sup> and four connection points</b>   |                |             |                       |
|   | Accessories  | 3/7            |             | <b>8WH9 000-1LA00</b> |
|   | <b>Connecting combs, for terminal width 5.2 mm</b>   |                |             |                       |
|   | • 2-pole   | Accessories    | 3/7         | <b>8WH9 020-6BC10</b> |
|   | • 3-pole   | Accessories    | 3/7         | <b>8WH9 020-6BD10</b> |
|   | • 4-pole   | Accessories    | 3/7         | <b>8WH9 020-6BE10</b> |
|   | • 5-pole   | Accessories    | 3/7         | <b>8WH9 020-6BF10</b> |
|   | • 10-pole  | Accessories    | 3/7         | <b>8WH9 020-6BL10</b> |
|   | • 20-pole  | Accessories    | 3/7         | <b>8WH9 020-6BS10</b> |
|   | • 50-pole  | Accessories    | 3/7         | <b>8WH9 020-6BT10</b> |
|   | <b>Through-type PE terminals, terminal size 2.5 mm<sup>2</sup></b>   |                |             |                       |
|  | <ul style="list-style-type: none"> <li>Green-yellow</li> <li>Terminal width 5.2 mm</li> <li>UL US</li> <li>IEC 61984</li> </ul>  |                |             |                       |
| 8WH5 000-0CF07  | <b>Versions</b>  |                |             |                       |
|   | <ul style="list-style-type: none"> <li>• Two connection points</li> <li>• Four connection points</li> </ul>  |                |             |                       |
|   | <b>8WH5 000-0CF07</b>  |                | 044         | 50                    |
|   | <b>8WH5 004-0CF07</b>  |                | 044         | 50                    |
|  | <b>Accessories</b>   |                |             |                       |
| 8WH5 000-0CF07  | <b>Compartment partitions for terminal size 1.5 to 4 mm<sup>2</sup></b>  |                |             |                       |
|   | • For two connection points  | Accessories    | 3/7         | <b>8WH9 070-0AA00</b> |
|   | • For four connection points   | Accessories    | 3/7         | <b>8WH9 070-0HA00</b> |
|   | <b>Cover plates, for terminal size 2.5 mm<sup>2</sup></b>  |                |             |                       |
|   | • Two connection points  | Accessories    | 3/7         | <b>8WH9 000-1GA00</b> |
|   | • Four connection points   | Accessories    | 3/7         | <b>8WH9 000-4NA00</b> |
|   | <b>Cover segments, for terminal size 2.5 mm<sup>2</sup> and four connection points</b>   |                |             |                       |
|   | Accessories  | 3/7            |             | <b>8WH9 000-1LA00</b> |
|   | <b>Connecting combs, for terminal width 5.2 mm</b>   |                |             |                       |
|   | • 2-pole   | Accessories    | 3/7         | <b>8WH9 020-6BC10</b> |
|   | • 3-pole   | Accessories    | 3/7         | <b>8WH9 020-6BD10</b> |
|   | • 4-pole   | Accessories    | 3/7         | <b>8WH9 020-6BE10</b> |
|   | • 5-pole   | Accessories    | 3/7         | <b>8WH9 020-6BF10</b> |
|   | • 10-pole  | Accessories    | 3/7         | <b>8WH9 020-6BL10</b> |
|   | • 20-pole  | Accessories    | 3/7         | <b>8WH9 020-6BS10</b> |
|   | • 50-pole  | Accessories    | 3/7         | <b>8WH9 020-6BT10</b> |
|  |  |                |             |                       |
| 8WH5 004-0CF07  |  |                |             |                       |

# ALPHA FIX Terminal Blocks

## ALPHA FIX 8WH Combination Plug-In Terminals

### Through-type and PE terminals

| Version  | Order No.  | Price  | PG             | PS*<br>P. unit |     |
|--|--|--|----------------|----------------|-----|
|  |  | 1 unit   |                | Unit(s)        |     |
| <b>Accessories</b>   |  |  |                |                |     |
|  <p><b>Compartment partitions, for terminal size 1.5 to 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> </ul>  | <p><b>Versions</b></p> <ul style="list-style-type: none"> <li>For two connection points Accessories 3/7</li> <li>For four connection points Accessories 3/7</li> </ul> |  |                |                |     |
|  | 8WH9 070-0AA00   | 8WH9 070-0AA00   |                | 044            | 50  |
|  <p><b>Cover segments, for terminal size 2.5 mm<sup>2</sup> and four connection points</b></p> <ul style="list-style-type: none"> <li>Gray</li> <li>For covering multi-wire terminals when mounting two-wire terminals side-by-side</li> </ul>  |  |  |                |                |     |
|  | 8WH9 000-1LA00   | 8WH9 000-1LA00   |                | 044            | 50  |
|  <p><b>Cover plates, for terminal size 2.5 mm<sup>2</sup></b></p> <p>Gray</p> <ul style="list-style-type: none"> <li>Two connection points</li> <li>Four connection points</li> </ul>   |  |  |                |                |     |
|  | 8WH9 000-4NA00   | 8WH9 000-1GA00<br>8WH9 000-4NA00   |                | 044            | 50  |
|  <p><b>Labeling plates, front, for terminal width 5.2 mm, horizontal inscription</b></p> <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>L1/L2/L3/N/PE</li> <li>Custom inscription</li> </ul> |  |  |                |                |     |
|  | 8WH8 120-2AB05   | 8WH8 120-2AB05   |                | 044            | 100 |
|  |  <p>8WH8 120-2AA15</p>  | 8WH8 120-2AB15   |                | 044            | 100 |
|  |  | 8WH8 120-2AB25   |                | 044            | 100 |
|  |  | 8WH8 120-2AB35   |                | 044            | 100 |
|  |  | 8WH8 120-2AB45   |                | 044            | 100 |
|  |  | 8WH8 120-2AB55   |                | 044            | 100 |
|  |  | 8WH8 120-2AB65   |                | 044            | 100 |
|  |  | 8WH8 120-2AB75   |                | 044            | 100 |
|  |  | 8WH8 120-2AB85   |                | 044            | 100 |
|  |  | 8WH8 120-2AC05   |                | 044            | 100 |
|  |  | 8WH8 120-2AA15   |                | 044            | 100 |
|  |  | 8WH8 120-2XA05   |                | 044            | 100 |
|  <p><b>Labeling plates, front, for terminal width 5.2 mm, vertical inscription</b></p> <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>                        |  |  |                |                |     |
|  | 8WH8 140-2AB05   | 8WH8 140-2AB05   |                | 044            | 100 |
|  | <p>8WH8 140-2AB15</p>  | 8WH8 140-2AB15   |                | 044            | 100 |
|  |  | 8WH8 140-2AB25   |                | 044            | 100 |
|  |  | 8WH8 140-2AB35   |                | 044            | 100 |
|  |  | 8WH8 140-2AB45   |                | 044            | 100 |
|  |  | 8WH8 140-2AB55   |                | 044            | 100 |
|  |  | 8WH8 140-2AB65   |                | 044            | 100 |
|  |  | 8WH8 140-2AB75   |                | 044            | 100 |
|  |  | 8WH8 140-2AB85   |                | 044            | 100 |
|  |  | 8WH8 140-2AC05   |                | 044            | 100 |
|  |  | 8WH8 140-2XA05   |                | 044            | 100 |
|  |  |  <p><b>Labeling plates, front, for terminal width 5.2 mm, blank</b></p> | 8WH8 110-2AA05 |                | 044 |
| 8WH8 110-2AA05   |  |  |                |                |     |
| <p><b>Connecting combs, for terminal width 5.2 mm</b></p> <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>  |  |  |                |                |     |
|  | 8WH9 020-6BC10   |  | 044            | 50             |     |
|  | 8WH9 020-6BD10   |  | 044            | 50             |     |
|  | 8WH9 020-6BE10   |  | 044            | 50             |     |
|  | 8WH9 020-6BF10   |  | 044            | 50             |     |
|  | 8WH9 020-6BL10   |  | 044            | 10             |     |
|  | 8WH9 020-6BS10   |  | 044            | 10             |     |
|  | 8WH9 020-6BT10   |  | 044            | 10             |     |

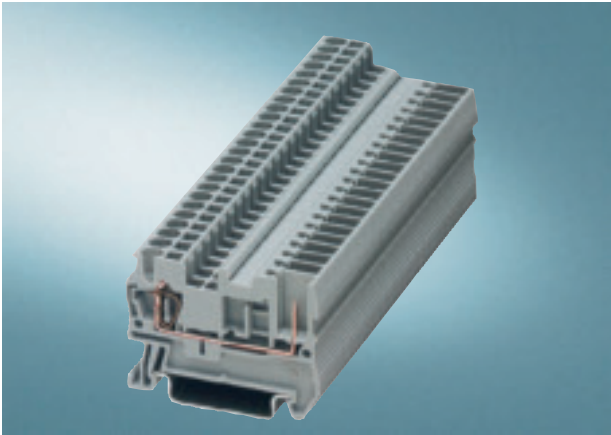
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# ALPHA FIX Terminal Blocks

## ALPHA FIX 8WH Combination Plug-In Terminals

### Hybrid through-type terminals

#### Overview

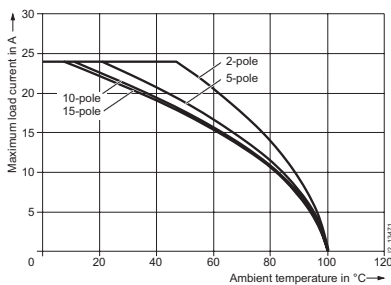


The hybrid through-type terminals provide a modular solution for fast, flexible wiring of plants and machines. They combine the advantages of the combination terminal system with those of inexpensive spring-loaded terminals.

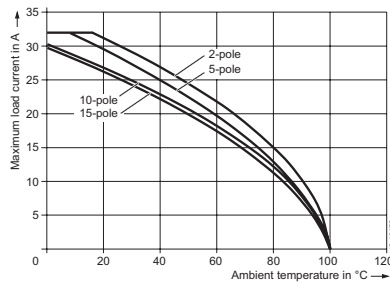
#### Technical specifications

|  | 8WH5 100-2KF00 /<br>-2KF01 | 8WH5 103-2LF00 /<br>-2LF01 | 8WH5 104-2MF00 /<br>-2MF01 | 8WH5 100-3KF07                |
|--|----------------------------|----------------------------|----------------------------|-------------------------------|
| <b>Dimensions</b>  |                            |                            |                            |                               |
| • Width / length / width of cover in mm                                  | 5.2 / 48.5 / 2.2           | 5.2 / 60.5 / 2.2           | 5.2 / 81 / 2.2             | 5.2 / 48.5 / 2.2              |
| • Height (NS 35/7.5 / NS 35/15) in mm                                    | 36.5 / 44                  |                            |                            |                               |
| <b>Technical specifications according to IEC/DIN VDE</b>                 |                            |                            |                            |                               |
| • Max. load current <sup>1)</sup> per cross-section in A/mm <sup>2</sup> | 24 / 4                     |                            |                            | -                             |
| • Rated impulse withstand voltage/pollution degree in kV / -             | 6 / 3                      |                            |                            |                               |
| • Overvoltage category/insulating group - / -                            | III / I                    |                            |                            |                               |
| <b>Connection capacities</b>   |                            |                            |                            |                               |
| • Flexible with ferrule with plastic sleeve in mm <sup>2</sup>           | 0.25 ... 2.5               |                            |                            |                               |
| • Flexible without ferrule with 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</b>   | 10                         |                            |                            |                               |
| <b>Plug gage (IEC 60947-1)</b>   | A3                         |                            |                            |                               |
| <b>Insulation type</b>   | PA                         |                            |                            |                               |
| • Flammability class according 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           |                            |                            | - / - / 26-12                 |
| - CSA: in V/A / AWG  |                            |                            |                            |                               |
| <b>Mounting rail/protective conductor busbars</b>                        | -                          |                            |                            | See section<br>Mounting rails |

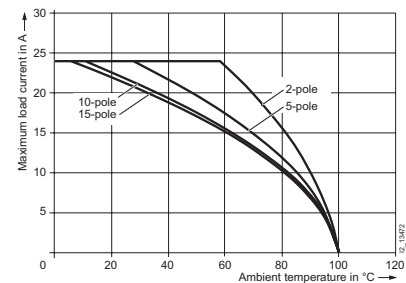
1) For higher temperatures and/or multipin combination plug-in terminals a derating as for load current is necessary.



Derating curve for 8WH5 100-2KF00 & 8WH5 103-2LF00



Derating curve for 8WH5 100-2KG00



Derating curve for 8WH5 104-2MF00



# ALPHA FIX Terminal Blocks

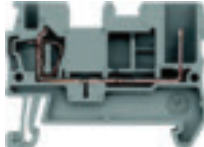


## ALPHA FIX 8WH Combination Plug-In Terminals

### Hybrid through-type terminals

|  | 8WH5 103-3LF07                    | 8WH5 104-3MF07 | 8WH5 100-2KG00 / -2KG01 | 8WH5 100-3KG07                    |
|--|-----------------------------------|----------------|-------------------------|-----------------------------------|
| <b>Dimensions</b>  |                                   |                |                         |                                   |
| • Width / length / width of cover in mm                                  | 5.2 / 60.5 / 2.2                  | 5.2 / 81 / 2.2 | 6.2 / 55.9 / 2.2        |                                   |
| • Height (NS 35/7.5 / NS 35/15) in mm                                    | 36.5 / 44                         |                |                         |                                   |
| <b>Technical specifications according to IEC/DIN VDE</b>                 |                                   |                |                         |                                   |
| • Max. load current <sup>1)</sup> per cross-section in A/mm <sup>2</sup> | -                                 |                | 32 / 6                  | -                                 |
| • Rated impulse withstand voltage/pollution degree in kV / -             | 6 / 3                             |                |                         |                                   |
| • Overvoltage category/insulating group - / -                            | III / I                           |                |                         |                                   |
| <b>Connection capacities</b>   |                                   |                |                         |                                   |
| • Flexible with ferrule with plastic sleeve in mm <sup>2</sup>           | 0.25 ... 2.5                      |                | 0.25 ... 4              |                                   |
| • Flexible without ferrule with plastic sleeve in mm <sup>2</sup>        | 0.25 ... 2.5                      |                | 0.25 ... 4              |                                   |
| • Flexible with TWIN ferrule with plastic sleeve in mm <sup>2</sup>      | 0.5                               |                | 0.5 ... 1               |                                   |
| <b>Stripped length</b>   | 10                                |                |                         |                                   |
| <b>Plug gage (IEC 60947-1)</b>   | A3                                |                | A4                      |                                   |
| <b>Insulation type</b>   | PA                                |                |                         |                                   |
| • Flammability class according to UL 94                                  | V0                                |                |                         |                                   |
| <b>Approval data (UL/CUL and CSA)</b>                                    |                                   |                |                         |                                   |
| • Nominal voltage/current / cable sizes                                  |                                   |                | 600 / 30 / 28-10        | - / - / 28-10                     |
| - UL/CUL: in V/A / AWG   | - / - / 26-12                     |                |                         |                                   |
| - CSA: in V/A / AWG  |                                   |                |                         |                                   |
| <b>Mounting rail/protective conductor busbars</b>                        | See section <i>Mounting rails</i> |                |                         | See section <i>Mounting rails</i> |

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


### Selection and ordering data

| Version  | Order No.   | Price  | PG             | PS*<br>P. unit |
|--|---|--|----------------|----------------|
|  |   | 1 unit   |                | Unit(s)        |
| <b>Terminal size 2.5 mm<sup>2</sup></b>  |   |  |                |                |
| <b>Hybrid through-type terminals, terminal size 2.5 mm<sup>2</sup></b>   |   |  |                |                |
| <br>8WH5 100-2KF00  | <ul style="list-style-type: none"> <li>Terminal width 5.2 mm</li> <li>UL, IEC 61984</li> <li>Solid, 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 = 24 A</li> <li>U = 500 V</li> </ul> |  |                |                |
| <b>Versions</b>  |   |  |                |                |
| <br>8WH5 103-2LF00  | <ul style="list-style-type: none"> <li>Gray</li> <li>Two connection points</li> <li>Three connection points</li> <li>Four connection points</li> </ul>  | 8WH5 100-2KF00<br>8WH5 103-2LF00<br>8WH5 104-2MF00 | 044            | 50             |
| <br>8WH5 104-2MF00  | <ul style="list-style-type: none"> <li>Blue</li> <li>Two connection points</li> <li>Three connection points</li> <li>Four connection points</li> </ul>  | 8WH5 100-2KF01<br>8WH5 103-2LF01<br>8WH5 104-2MF01 | 044            | 50             |
| <b>Note</b>  |   |  |                |                |
| On terminal with three and four connection points, the total current through all connected conductors must not exceed the max. load current. |   |  |                |                |
| <b>Accessories</b>   |   |  |                |                |
|  | Section   | Page   |                |                |
| <b>Compartment partitions, for terminal size 1.5 to 4 mm<sup>2</sup></b>   |   |  |                |                |
| • For two connection points  | Accessories   | 3/11   | 8WH9 070-0AA00 | 044 50         |
| • For three connection points  | Accessories   | 3/11   | 8WH9 070-0GA00 | 044 50         |
| • For four connection points   | Accessories   | 3/11   | 8WH9 070-0HA00 | 044 50         |
| <b>Cover plates, for terminal size 2.5 mm<sup>2</sup></b>  |   |  |                |                |
| • Two connection points  | Accessories   | 3/11   | 8WH9 000-1GA00 |                |
| • Three connection points  | Accessories   | 3/11   | 8WH9 000-2GA00 |                |
| • Four connection points   | Accessories   | 3/11   | 8WH9 000-4LA00 | 044 50         |
| <b>Cover segments, for terminal size 2.5 mm<sup>2</sup></b>  |   |  |                |                |
| • Three connection points  | Accessories   | 3/11   | 8WH9 000-0GA00 | 044 10         |
| • Four connection points   | Accessories   | 3/11   | 8WH9 000-0LA00 | 044 50         |
| <b>Connecting combs, for terminal width 5.2 mm</b>   |   |  |                |                |
| • 2-pole   | Accessories   | 3/12   | 8WH9 020-6BC10 | 044 50         |
| • 3-pole   | Accessories   | 3/12   | 8WH9 020-6BD10 | 044 50         |
| • 4-pole   | Accessories   | 3/12   | 8WH9 020-6BE10 | 044 50         |
| • 5-pole   | Accessories   | 3/12   | 8WH9 020-6BF10 | 044 50         |
| • 10-pole  | Accessories   | 3/12   | 8WH9 020-6BL10 | 044 10         |
| • 20-pole  | Accessories   | 3/12   | 8WH9 020-6BS10 | 044 10         |
| • 50-pole  | Accessories   | 3/12   | 8WH9 020-6BT10 | 044 10         |

# ALPHA FIX Terminal Blocks

## ALPHA FIX 8WH Combination Plug-In Terminals


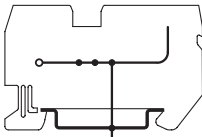










### Hybrid through-type terminals

| Version   | Order No.   | Price   | PG  | PS*<br>P. unit |
|---|---|---|-----|----------------|
|   |   | 1 unit  |     | Unit(s)        |
| <b>Hybrid through-type PE terminals, terminal size 2.5 mm<sup>2</sup></b>   |   |   |     |                |
| <ul style="list-style-type: none"> <li>Terminal width 5.2 mm</li> <li>  </li> <li>IEC 61984           <ul style="list-style-type: none"> <li>Solid, 0.08 ... 4 mm<sup>2</sup></li> <li>Flexible, 0.08 ... 2.5 mm<sup>2</sup></li> <li>AWG 28-12</li> </ul> </li> </ul> |   |   |     |                |
| <b>Versions</b>   |   |   |     |                |
| <ul style="list-style-type: none"> <li>Two connection points</li> <li>Three connection points</li> <li>Four connection points</li> </ul>  | <b>8WH5 100-3KF07</b><br><b>8WH5 103-3LF07</b><br><b>8WH5 104-3MF07</b> |   | 044 | 50             |
| <b>Accessories</b>  |   |   |     |                |
| <b>Compartment partitions for terminal size 1.5 to 4 mm<sup>2</sup></b>   |   |   |     |                |
| <ul style="list-style-type: none"> <li>For two connection points</li> <li>For three connection points</li> <li>For four connection points</li> </ul>  | Accessories 3/11  | <b>8WH9 070-0AA00</b><br><b>8WH9 070-0GA00</b><br><b>8WH9 070-0HA00</b>   | 044 | 50             |
| <b>Cover plates, for terminal size 2.5 mm<sup>2</sup></b>   |   |   |     |                |
| <ul style="list-style-type: none"> <li>Two connection points</li> <li>Three connection points</li> <li>Four connection points</li> </ul>  | Accessories 3/11  | <b>8WH9 000-1GA00</b><br><b>8WH9 000-2GA00</b><br><b>8WH9 000-4LA00</b>   | 044 | 50             |
| <b>Cover segments, for terminal size 2.5 mm<sup>2</sup></b>   |   |   |     |                |
| <ul style="list-style-type: none"> <li>Three connection points</li> <li>Four connection points</li> </ul>   | Accessories 3/11  | <b>8WH9 000-0GA00</b><br><b>8WH9 000-0LA00</b>  | 044 | 10             |
| <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>   | Accessories 3/12  | <b>8WH9 020-6BC10</b><br><b>8WH9 020-6BD10</b><br><b>8WH9 020-6BE10</b><br><b>8WH9 020-6BF10</b><br><b>8WH9 020-6BL10</b><br><b>8WH9 020-6BS10</b><br><b>8WH9 020-6BT10</b> | 044 | 50             |
| <b>Terminal size 4 mm<sup>2</sup></b>   |   |   |     |                |
| <b>Hybrid through-type terminals, terminal size 4 mm<sup>2</sup>, 2 connection points</b>   |   |   |     |                |
| <ul style="list-style-type: none"> <li>Terminal width 6.2 mm</li> <li>IEC 61984           <ul style="list-style-type: none"> <li>Solid, 0.08 ... 6 mm<sup>2</sup></li> <li>Flexible, 0.08 ... 4 mm<sup>2</sup></li> <li>AWG 28-10</li> <li>I = 32 A</li> <li>U = 800 V</li> </ul> </li> </ul>   |   |   |     |                |
| <b>Versions</b>   |   |   |     |                |
| <ul style="list-style-type: none"> <li>Gray</li> <li>Blue</li> </ul>  | <b>8WH5 100-2KG00</b><br><b>8WH5 100-2KG01</b>                          |   | 044 | 50             |
| <b>Accessories</b>  |   |   |     |                |
| <b>Compartment partitions, for terminal size 1.5 to 4 mm<sup>2</sup> and two connection points</b>  |   |   |     |                |
|   | Accessories 3/11  | <b>8WH9 070-0AA00</b>   | 044 | 50             |
| <b>Cover plates, for terminal size 4 mm<sup>2</sup> and two connection points</b>   |   |   |     |                |
|   | Accessories 3/11  | <b>8WH9 003-1GA00</b>   | 044 | 50             |
| <b>Connecting combs, for terminal width 6.2 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>   | Accessories 3/12  | <b>8WH9 020-6CC10</b><br><b>8WH9 020-6CD10</b><br><b>8WH9 020-6CE10</b><br><b>8WH9 020-6CF10</b><br><b>8WH9 020-6CL10</b><br><b>8WH9 020-6CS10</b><br><b>8WH9 020-6CT10</b> | 044 | 50             |

# ALPHA FIX Terminal Blocks

## ALPHA FIX 8WH Combination Plug-In Terminals






### Hybrid through-type terminals

| Version   | Order No.  | Price<br>1 unit   | PG   | PS*<br>P. unit<br>Unit(s)  |
|---|--|---|--|--|
|  <p>8WH5 100-3KG07</p>  <p>8WH5 100-3KG07</p> | <p><b>Hybrid through-type PE terminals, terminal size 4 mm<sup>2</sup>, two connection points</b></p> <ul style="list-style-type: none"> <li>Terminal width 6.2 mm</li> <li>IEC 61984                             <ul style="list-style-type: none"> <li>Solid, 0.08 ... 6 mm<sup>2</sup></li> <li>Flexible, 0.08 ... 4 mm<sup>2</sup></li> <li>AWG 28-10</li> </ul> </li> </ul>   | 8WH5 100-3KG07  | 044  | 50   |
| <p><b>Accessories</b></p>   | <p><b>Section</b></p>  | <p><b>Page</b></p>  |  |  |
|  <p>8WH9 070-0AA00</p>   | <p><b>Compartment partitions, for terminal size 1.5 to 4 mm<sup>2</sup> and two connection points</b></p>  | Accessories 3/11  | 044  | 50   |
|  <p>8WH9 000-4LA00</p>  | <p><b>Cover plates, for terminal size 4 mm<sup>2</sup> and two connection points</b></p>   | Accessories 3/11  | 044  | 50   |
|  <p>8WH9 000-0LA00</p>   | <p><b>Connecting combs, for terminal width 6.2 mm</b></p> <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>  | <p>Accessories 3/12</p> <p>Accessories 3/12</p> <p>Accessories 3/12</p> <p>Accessories 3/12</p> <p>Accessories 3/12</p> <p>Accessories 3/12</p> <p>Accessories 3/12</p>   | <p>044</p> <p>044</p> <p>044</p> <p>044</p> <p>044</p> <p>044</p> <p>044</p>   | <p>50</p> <p>50</p> <p>50</p> <p>50</p> <p>10</p> <p>10</p> <p>10</p>  |
| <b>Accessories</b>  |  |   |  |  |
|  <p>8WH9 070-0AA00</p>   | <p><b>Compartment partitions, for terminal size 1.5 to 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> </ul>  |   |  |  |
|   | <p><b>Versions</b></p> <ul style="list-style-type: none"> <li>For two connection points</li> <li>For three connection points</li> <li>For four connection points</li> </ul>  | <p>8WH9 070-0AA00</p> <p>8WH9 070-0GA00</p> <p>8WH9 070-0HA00</p>   | <p>044</p> <p>044</p> <p>044</p>   | <p>50</p> <p>50</p> <p>50</p>  |
|  <p>8WH9 000-4LA00</p>  | <p><b>Cover plates</b></p> <ul style="list-style-type: none"> <li>For terminal size 2.5 mm<sup>2</sup> <ul style="list-style-type: none"> <li>Two connection points</li> <li>Three connection points</li> <li>Four connection points</li> </ul> </li> <li>For terminal size 2.5 mm<sup>2</sup> <ul style="list-style-type: none"> <li>Two connection points</li> </ul> </li> </ul>   | <p>8WH9 000-1GA00</p> <p>8WH9 000-2GA00</p> <p>8WH9 000-4LA00</p>   | <p>044</p> <p>044</p> <p>044</p>   | <p>50</p> <p>50</p> <p>50</p>  |
|  <p>8WH9 000-0LA00</p>   | <p><b>Cover segments, for terminal size 2.5 mm<sup>2</sup></b></p> <ul style="list-style-type: none"> <li>Three connection points</li> <li>Four connection points</li> </ul>   | <p>8WH9 000-0GA00</p> <p>8WH9 000-0LA00</p>   | <p>044</p> <p>044</p>  | <p>10</p> <p>50</p>  |
|  <p>8WH8 120-2AB05</p>   | <p><b>Labeling plates, front, for terminal width 5.2 mm, horizontal inscription</b></p> <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>L1/L2/L3/N/PE</li> <li>Custom inscription</li> </ul> | <p>8WH8 120-2AB05</p> <p>8WH8 120-2AB15</p> <p>8WH8 120-2AB25</p> <p>8WH8 120-2AB35</p> <p>8WH8 120-2AB45</p> <p>8WH8 120-2AB55</p> <p>8WH8 120-2AB65</p> <p>8WH8 120-2AB75</p> <p>8WH8 120-2AB85</p> <p>8WH8 120-2AC05</p> <p>8WH8 120-2AA15</p> <p>8WH8 120-2XA05</p> | <p>044</p> <p>044</p> <p>044</p> <p>044</p> <p>044</p> <p>044</p> <p>044</p> <p>044</p> <p>044</p> <p>044</p> <p>044</p> | <p>100</p> <p>100</p> <p>100</p> <p>100</p> <p>100</p> <p>100</p> <p>100</p> <p>100</p> <p>100</p> <p>100</p> <p>100</p> |
|  <p>8WH8 120-2AA15</p>   |  |   |  |  |
|  <p>8WH8 140-2AB05</p>   | <p><b>Labeling plates, front, for terminal width 5.2 mm, vertical inscription</b></p> <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>                          | <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>                       | <p>044</p> <p>044</p> <p>044</p> <p>044</p> <p>044</p> <p>044</p> <p>044</p> <p>044</p> <p>044</p> <p>044</p>            | <p>100</p> <p>100</p> <p>100</p> <p>100</p> <p>100</p> <p>100</p> <p>100</p> <p>100</p> <p>100</p> <p>100</p>            |
|  <p>8WH8 110-2AA05</p>   | <p><b>Labeling plates, front, for terminal width 5.2 mm, blank</b></p>   | 8WH8 110-2AA05  | 044  | 100  |

# ALPHA FIX Terminal Blocks

## ALPHA FIX 8WH Combination Plug-In Terminals

### Hybrid through-type terminals

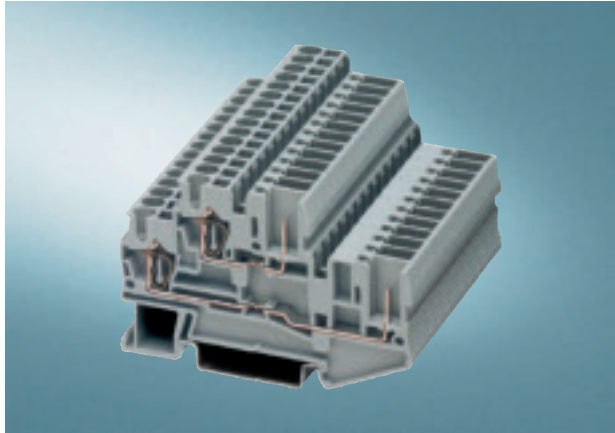
| Version   | Order No.  | Price  | PG  | PS*<br>P. unit |
|---|--|--|-----|----------------|
|   |  | 1 unit   |     | Unit(s)        |
|  | <b>Labeling plates, front, for terminal width 6.2 mm, horizontal inscription</b>   |  |     |                |
| 8WH8 120-3AB05  | <ul style="list-style-type: 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>L1/L2/L3/N/PE</li> <li>Custom inscription</li> <li>U/N/W/N/grounding</li> </ul>                              | <b>8WH8 120-3AB05</b><br><b>8WH8 120-3AB15</b><br><b>8WH8 120-3AB25</b><br><b>8WH8 120-3AB35</b><br><b>8WH8 120-3AB45</b><br><b>8WH8 120-3AB55</b><br><b>8WH8 120-3AB65</b><br><b>8WH8 120-3AB75</b><br><b>8WH8 120-3AB85</b><br><b>8WH8 120-3AC05</b><br><b>8WH8 120-3AA15</b><br><b>8WH8 120-3XA05</b><br><b>8WH8 120-3AA25</b>                              | 044 | 100            |
|  |  |  |     |                |
| 8WH8 120-3AA15  |  |  |     |                |
|  |  |  |     |                |
| 8WH8 120-3AA25  |  |  |     |                |
|  | <b>Labeling plates, front, for terminal width 6.2 mm, vertical inscription</b>   |  |     |                |
| 8WH8 140-3AB05  | <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 140-3AB05</b><br><b>8WH8 140-3AB15</b><br><b>8WH8 140-3AB25</b><br><b>8WH8 140-3AB35</b><br><b>8WH8 140-3AB45</b><br><b>8WH8 140-3AB55</b><br><b>8WH8 140-3AB65</b><br><b>8WH8 140-3AB75</b><br><b>8WH8 140-3AB85</b><br><b>8WH8 140-3AC05</b><br><b>8WH8 140-3XA05</b>  | 044 | 100            |
|  | <b>Labeling plates, front, for terminal width 6.2 mm, blank</b>  |  |     |                |
| 8WH8 110-3AA05  |  | <b>8WH8 110-3AA05</b>  | 044 | 100            |
|   | <b>Connecting combs</b>  |  |     |                |
|   | Red  |  |     |                |
|   | <ul style="list-style-type: none"> <li>For terminal width 5.2 mm                             <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> </li> <li>For terminal width 6.2 mm                             <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> </li> </ul> | <b>8WH9 020-6BC10</b><br><b>8WH9 020-6BD10</b><br><b>8WH9 020-6BE10</b><br><b>8WH9 020-6BF10</b><br><b>8WH9 020-6BL10</b><br><b>8WH9 020-6BS10</b><br><b>8WH9 020-6BT10</b><br><br><b>8WH9 020-6CC10</b><br><b>8WH9 020-6CD10</b><br><b>8WH9 020-6CE10</b><br><b>8WH9 020-6CF10</b><br><b>8WH9 020-6CL10</b><br><b>8WH9 020-6CS10</b><br><b>8WH9 020-6CT10</b> | 044 | 50             |

# ALPHA FIX Terminal Blocks

## ALPHA FIX 8WH Combination Plug-In Terminals

Hybrid two-tier terminals

### Overview



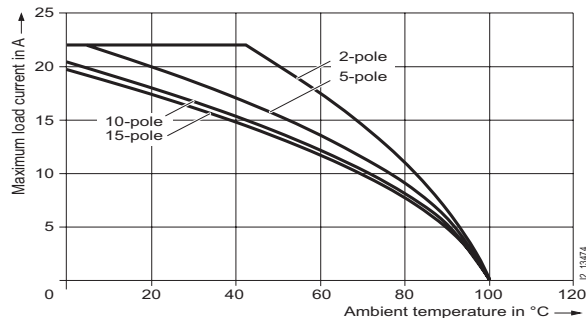
With the two voltage levels routed through two separate tiers, the combination two-tier plug-in terminals require 50 % less space than equivalent single-tier terminals. To implement a wide range of switching tasks, connecting combs (see page 6/2) can be fitted to both tiers of the combination two-tier plug-in terminals.

3

### Technical specifications

|  | 8WH5 120-2MF00 / -2MF01<br>8WH 125-2MF00 / -2MF01 | 8WH5 120-3MF07                    |
|--|---|-----------------------------------|
| <b>Dimensions</b>  |   |                                   |
| • Width / length / width of cover in mm                                  | 5.2 / 71.5 / 2.2                                  |                                   |
| • Height (NS 35/7.5 / NS 35/15) in mm                                    | 47.5 / 55   |                                   |
| <b>Technical specifications according to IEC/DIN VDE</b>                 |   |                                   |
| • Max. load current <sup>1)</sup> per cross-section in A/mm <sup>2</sup> | 22 / 4  | -                                 |
| • Rated impulse withstand voltage/pollution degree in kV / -             | 6 / 3   |                                   |
| • Overvoltage category/insulating group - / -                            | III / I   |                                   |
| <b>Connection capacities</b>   |   |                                   |
| • Flexible with ferrule with plastic sleeve in mm <sup>2</sup>           | 0.25 ... 2.5                                      |                                   |
| • Flexible without ferrule with 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</b>   | 10  |                                   |
| <b>Plug gage (IEC 60947-1)</b>   | A3  |                                   |
| <b>Insulation type</b>   | PA  |                                   |
| • Flammability class according 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                                  | - / - / 26-12                     |
| - CSA: in V/A / AWG  | -   |                                   |
| <b>Mounting rail/protective conductor busbars</b>                        |   | See section <i>Mounting rails</i> |

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








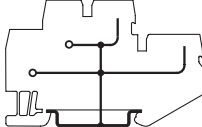
Derating curve for 8WH5 120-2MF00 & 8WH5 125-2MF00

# ALPHA FIX Terminal Blocks

## ALPHA FIX 8WH Combination Plug-In Terminals

### Hybrid two-tier terminals







#### Selection and ordering data

| Version   | Order No.   | Price          | PG          | PS*<br>P. unit        |
|---|---|----------------|-------------|-----------------------|
|   |   | 1 unit         |             | Unit(s)               |
| <b>Terminal size 2.5 mm<sup>2</sup></b>   |   |                |             |                       |
|  <p>8WH5 120-2MF00</p>   | <b>Hybrid two-tier terminals, terminal size 2.5 mm<sup>2</sup></b> <ul style="list-style-type: none"> <li>Terminal width 5.2 mm</li> <li>  </li> <li>IEC 61984                             <ul style="list-style-type: none"> <li>Solid, 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 = 22 A</li> <li>U = 500 V</li> </ul> </li> </ul> |                |             |                       |
|   | <b>Versions</b> <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> <li>With equipotential bonding</li> </ul> </li> </ul>  |                |             |                       |
|  <p>8WH5 125-2MF00</p>   | <b>Versions</b> <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> <li>With equipotential bonding</li> </ul> </li> </ul>  |                |             |                       |
|   | <b>Note</b><br>On terminal with equipotential bonding, the total current through all connected conductors must not exceed the max. load current.  |                |             |                       |
| <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    | 3/15        | <b>8WH9 070-0BA00</b> |
| <b>Cover plates, for terminal size 2.5 mm<sup>2</sup></b>   |   | Accessories    | 3/15        | <b>8WH9 000-1MA00</b> |
| <b>Connecting combs, for terminal width 5.2 mm</b>  |   | Accessories    | 3/15        | <b>8WH9 020-6BC10</b> |
| • 2-pole  |   | Accessories    | 3/15        | <b>8WH9 020-6BD10</b> |
| • 3-pole  |   | Accessories    | 3/15        | <b>8WH9 020-6BE10</b> |
| • 4-pole  |   | Accessories    | 3/15        | <b>8WH9 020-6BF10</b> |
| • 5-pole  |   | Accessories    | 3/15        | <b>8WH9 020-6BL10</b> |
| • 10-pole   |   | Accessories    | 3/15        | <b>8WH9 020-6BS10</b> |
| • 20-pole   |   | Accessories    | 3/15        | <b>8WH9 020-6BT10</b> |
| • 50-pole   |   | Accessories    | 3/15        | <b>8WH9 020-6BT10</b> |
|  <p>8WH5 120-3MF07</p> | <b>Hybrid two-tier PE terminals, terminal size 2.5 mm<sup>2</sup></b> <ul style="list-style-type: none"> <li>Green-yellow</li> <li>Terminal width 5.2 mm</li> <li>  </li> <li>IEC 61984                             <ul style="list-style-type: none"> <li>Solid, 0.08 ... 4 mm<sup>2</sup></li> <li>Flexible, 0.08 ... 2.5 mm<sup>2</sup></li> <li>AWG 28-12</li> </ul> </li> </ul>           |                |             |                       |
|   | <b>Accessories</b>  |                |             |                       |
| <b>Compartment partitions, for terminal size 1.5 to 4 mm<sup>2</sup></b>                                  |   | Accessories    | 3/15        | <b>8WH9 070-0BA00</b> |
| <b>Cover plates, for terminal size 2.5 mm<sup>2</sup></b>   |   | Accessories    | 3/15        | <b>8WH9 000-1MA00</b> |
| <b>Connecting combs, for terminal width 5.2 mm</b>  |   | Accessories    | 3/15        | <b>8WH9 020-6BC10</b> |
| • 2-pole  |   | Accessories    | 3/15        | <b>8WH9 020-6BD10</b> |
| • 3-pole  |   | Accessories    | 3/15        | <b>8WH9 020-6BE10</b> |
| • 4-pole  |   | Accessories    | 3/15        | <b>8WH9 020-6BF10</b> |
| • 5-pole  |   | Accessories    | 3/15        | <b>8WH9 020-6BL10</b> |
| • 10-pole   |   | Accessories    | 3/15        | <b>8WH9 020-6BS10</b> |
| • 20-pole   |   | Accessories    | 3/15        | <b>8WH9 020-6BT10</b> |
| • 50-pole   |   | Accessories    | 3/15        | <b>8WH9 020-6BT10</b> |
|  <p>8WH5 120-3MF07</p> |   |                |             |                       |

# ALPHA FIX Terminal Blocks

## ALPHA FIX 8WH Combination Plug-In Terminals

### Hybrid two-tier terminals

| Version  | Order No.  | Price  | PG  | PS*<br>P. unit   |
|--|--|--|---|--|
|  |  | 1 unit   |   | Unit(s)  |
| <b>Accessories</b>   |  |  |   |  |
| <br>8WH9 070-0BA00  | <b>Compartment partitions, for terminal size 1.5 to 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> </ul>   | 8WH9 070-0BA00   | 044   | 50   |
| <br>8WH9 000-1MA00  | <b>Cover plates, for terminal size 2.5 mm<sup>2</sup></b><br>Gray  | 8WH9 000-1MA00   | 044   | 50   |
| <br>8WH8 120-2AB05<br><br><br>8WH8 120-2AA15 | <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>L1/L2/L3/N/PE</li> <li>Custom inscription</li> </ul> | 8WA8 121-2AB05<br>8WA8 121-2AB15<br>8WA8 121-2AB25<br>8WA8 121-2AB35<br>8WA8 121-2AB45<br>8WA8 121-2AB55<br>8WA8 121-2AB65<br>8WA8 121-2AB75<br>8WA8 121-2AB85<br>8WA8 121-2AC05<br>8WA8 121-2AA15<br>8WA8 121-2XA05 | 044<br>044<br>044<br>044<br>044<br>044<br>044<br>044<br>044<br>044<br>044<br>044<br>044 | 100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100 |
| <br>8WH8 140-2AB05   | <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>Custom inscription</li> </ul>                          | 8WA8 141-2AB05<br>8WA8 141-2AB15<br>8WA8 141-2AB25<br>8WA8 141-2AB35<br>8WA8 141-2AB45<br>8WA8 141-2AB55<br>8WA8 141-2AB65<br>8WA8 141-2AB75<br>8WA8 141-2AB85<br>8WA8 141-2AC05<br>8WA8 141-2XA05                   | 044<br>044<br>044<br>044<br>044<br>044<br>044<br>044<br>044<br>044<br>044<br>044        | 100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100        |
| <br>8WH8 111-2AA05  | <b>Labeling plates, flat, for terminal width 5.2 mm, blank</b>   | 8WH8 111-2AA05   | 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>   | 8WH9 020-6BC10<br>8WH9 020-6BD10<br>8WH9 020-6BE10<br>8WH9 020-6BF10<br>8WH9 020-6BL10<br>8WH9 020-6BS10<br>8WH9 020-6BT10   | 044<br>044<br>044<br>044<br>044<br>044<br>044   | 50<br>50<br>50<br>50<br>10<br>10<br>10   |

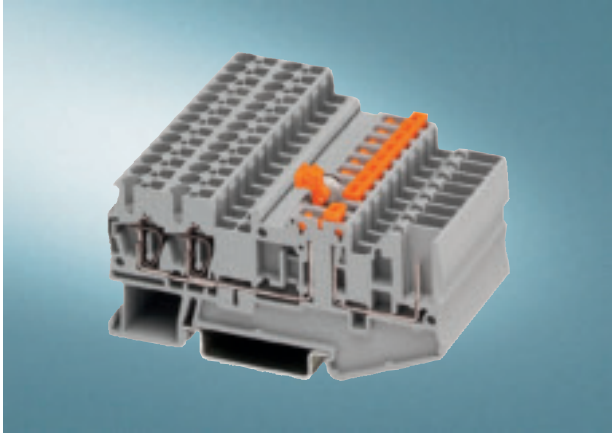
3

# ALPHA FIX Terminal Blocks

## ALPHA FIX 8WH Combination Plug-In Terminals

### Hybrid isolating blade terminals

#### Overview

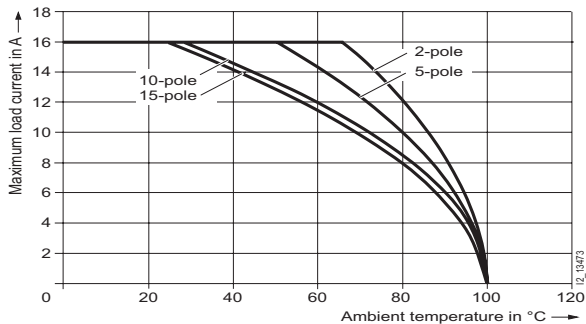


Through-type terminals with isolating blade capability are the most commonly used terminal types in instrumentation and control. Isolating blade terminals excel with their narrow width of only 5.2 mm and their high current load rating of 16 A. On both sides of the isolating point, Ø 2.3 mm test adapters can be fitted. A special feature of this terminal type is its three comb slots: the two slots that all 8WH2 and 8WH5 terminals have in common and an additional one on the other side of the isolating point.

#### Technical specifications

|  | 8WH5 103-6EF00   |
|--|------------------|
| <b>Dimensions</b>  |                  |
| • 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        |
| <b>Technical specifications according to IEC/DIN VDE</b>                 |                  |
| • Max. load current <sup>1)</sup> per cross-section in A/mm <sup>2</sup> | 16 / 4           |
| • Rated impulse withstand voltage/pollution degree in kV / -             | 6 / 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 without ferrule with 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</b>   | 10               |
| <b>Plug gage (IEC 60947-1)</b>   | A3               |
| <b>Insulation type</b>   |                  |
| • Flammability class according to UL 94                                  | PA<br>V0         |
| <b>Approval data (UL/CUL and CSA)</b>                                    |                  |
| • Nominal voltage/current / cable sizes                                  | 600 / 20 / 28-12 |
| - UL/CUL: in V/A / AWG   | -                |
| - CSA: in V/A / AWG  | -                |

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



Derating curve for 8WH5 103-6EF00

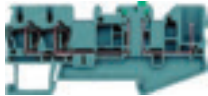
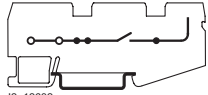



# ALPHA FIX Terminal Blocks

## ALPHA FIX 8WH Combination Plug-In Terminals

### Hybrid isolating blade terminals

#### Selection and ordering data

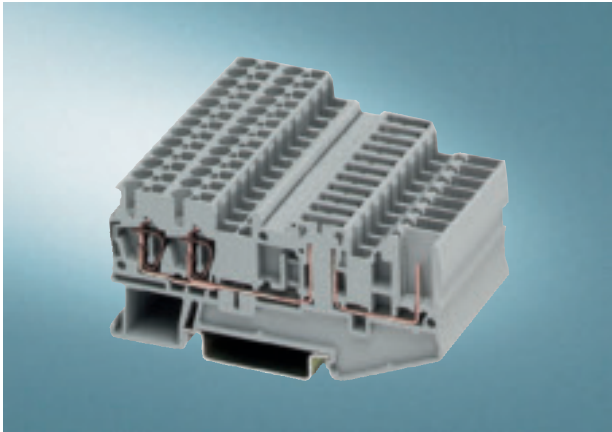
| Version  | Order No.   | Price       | PG             | PS*<br>P. unit |        |
|--|---|-------------|----------------|----------------|--------|
|  |   | 1 unit      |                | Unit(s)        |        |
| <b>Terminal size 2.5 mm<sup>2</sup></b>  |   |             |                |                |        |
|  <p>8WH5 103-6EF00</p>  <p>I2_12632<br/>8WH5 103-6EF00</p> | <b>Hybrid isolating blade terminals, terminal size 2.5 mm<sup>2</sup></b> <ul style="list-style-type: none"> <li>• Gray</li> <li>• Terminal width 5.2 mm</li> <li>• With three connection points (2 × spring-loaded connection, 1 × combination plug-in terminal connection)</li> <li>• IEC 61984               <ul style="list-style-type: none"> <li>- Solid, 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 = 16 A</li> <li>- U = 400 V</li> </ul> </li> </ul> |             | 8WH5 103-6EF00 | 044            | 50     |
| <b>Accessories</b>   |   | Section     | Page           |                |        |
| <b>Compartment partitions for terminal size 1.5 to 4 mm<sup>2</sup> and four connection points</b>   |   | Accessories | 3/17           | 8WH9 070-0HA00 | 044 50 |
| <b>Cover plates, for terminal size 2.5 mm<sup>2</sup> and four connection points</b>   |   | Accessories | 3/17           | 8WH9 000-4LA00 | 044 50 |
| <b>Connecting combs, for terminal width 5.2 mm</b>   |   |             |                |                |        |
| • 2-pole   | Accessories   | 3/17        | 8WH9 020-6BC10 | 044            | 50     |
| • 3-pole   | Accessories   | 3/17        | 8WH9 020-6BD10 | 044            | 50     |
| • 4-pole   | Accessories   | 3/17        | 8WH9 020-6BE10 | 044            | 50     |
| • 5-pole   | Accessories   | 3/17        | 8WH9 020-6BF10 | 044            | 50     |
| • 10-pole  | Accessories   | 3/17        | 8WH9 020-6BL10 | 044            | 10     |
| • 20-pole  | Accessories   | 3/17        | 8WH9 020-6BS10 | 044            | 10     |
| • 50-pole  | Accessories   | 3/17        | 8WH9 020-6BT10 | 044            | 10     |
| <b>Accessories</b>   |   |             |                |                |        |
| <b>Compartment partitions, for terminal size 1.5 to 4 mm<sup>2</sup> and four connection points</b>  |   |             |                | 8WH9 070-0HA00 | 044 50 |
| <ul style="list-style-type: none"> <li>• For visual and electrical separation of terminal groups</li> <li>• 2 mm thick</li> </ul>  |   |             |                |                |        |
| <b>Cover plates, for terminal size 2.5mm<sup>2</sup> and four connection points</b>  |   |             |                | 8WH9 000-4LA00 | 044 50 |
|  <p>8WH9 000-4LA00</p>   |   |             |                |                |        |
| <b>Connecting combs, for terminal width 5.2 mm</b>   |   |             |                |                |        |
| • 2-pole   |   |             | 8WH9 020-6BC10 | 044            | 50     |
| • 3-pole   |   |             | 8WH9 020-6BD10 | 044            | 50     |
| • 4-pole   |   |             | 8WH9 020-6BE10 | 044            | 50     |
| • 5-pole   |   |             | 8WH9 020-6BF10 | 044            | 50     |
| • 10-pole  |   |             | 8WH9 020-6BL10 | 044            | 10     |
| • 20-pole  |   |             | 8WH9 020-6BS10 | 044            | 10     |
| • 50-pole  |   |             | 8WH9 020-6BT10 | 044            | 10     |
| <b>Labeling plates, front, for terminal width 5.2 mm, horizontal inscription</b>   | Accessories   | 6/10        | 8WH8 120-2AB.. | 044            | 10     |
| <b>Labeling plates, front, for terminal width 5.2 mm, vertical inscription</b>   | Accessories   | 6/10        | 8WH8 140-2AB.. | 044            | 10     |
| <b>Labeling plates, front, for terminal width 5.2 mm, blank</b>  | Accessories   | 6/10        | 8WH8 110-2AA05 | 044            | 10     |
| <b>Labeling plates, flat, for terminal width 5.2 mm, horizontal inscription</b>  | Accessories   | 6/10        | 8WH8 121-2AB.. | 044            | 10     |
| <b>Labeling plates, flat, for terminal width 5.2 mm, vertical inscription</b>  | Accessories   | 6/10        | 8WH8 141-2AB.. | 044            | 10     |
| <b>Labeling plates, flat, for terminal width 5.2 mm, blank</b>   | Accessories   | 6/10        | 8WH8 111-2AA05 | 044            | 10     |

# ALPHA FIX Terminal Blocks

## ALPHA FIX 8WH Combination Plug-In Terminals

### Hybrid isolating terminals

#### Overview



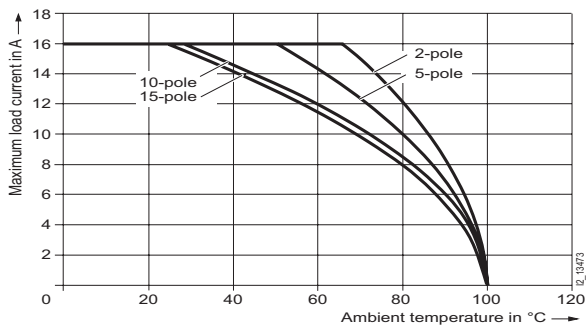
Through-type terminals with isolating point are the most commonly used terminal types in instrumentation and control. In the isolating point, through-type connectors, isolating plugs, component connectors and fused connectors can be fitted. The isolating blade terminals excel with their narrow width 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   |                  |
|--|------------------|
| <b>Dimensions</b>  |                  |
| • 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        |
| <b>Technical specifications according to IEC/DIN VDE</b>                 |                  |
| • Max. load current <sup>1)</sup> per cross-section in A/mm <sup>2</sup> | 16 / 4           |
| • Rated impulse withstand voltage/pollution degree in kV / -             | 6 / 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 without ferrule with 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</b>   | 10               |
| <b>Plug gage (IEC 60947-1)</b>   | A3               |
| <b>Insulation type</b>   |                  |
| • Flammability class according to UL 94                                  | V0               |
| <b>Approval data (UL/CUL and CSA)</b>                                    |                  |
| • Nominal voltage/current / cable sizes                                  | 600 / 20 / 28-12 |
| - UL/CUL: in V/A / AWG   | -                |
| - CSA: in V/A / AWG  | -                |

<sup>1)</sup> 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<br>V | Overload protection |                | Without short-circuit protection |                | I <sub>max</sub><br>A |
|---|--------|---------------------|----------------|----------------------------------|----------------|-----------------------|
|   |        | Separate            | Interconnected | Separate                         | Interconnected |                       |
| 8WH2 000-1GG08                          | 250    | 1.6 W               | 1.6 W          | 4 W                              | 2.5 W          | 6.3                   |




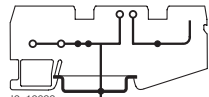





Derating curve for 8WH5 103-6FF00

# ALPHA FIX Terminal Blocks

## ALPHA FIX 8WH Combination Plug-In Terminals

### Hybrid isolating terminals






#### Selection and ordering data

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

# ALPHA FIX Terminal Blocks

## ALPHA FIX 8WH Combination Plug-In Terminals

### Hybrid isolating terminals

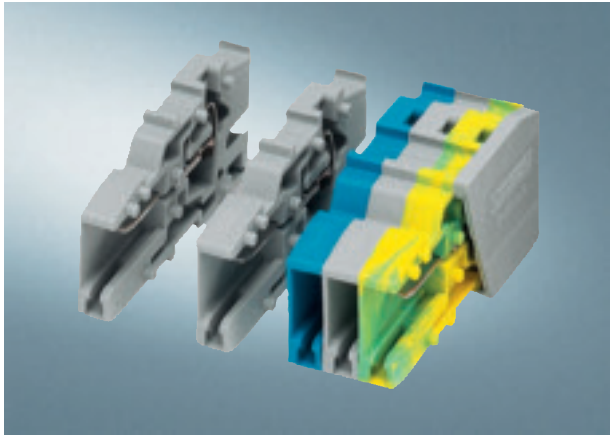
| Version   | Order No.   | Price   | PG  | PS*<br>P. unit  |        |
|---|---|---|---|---|--------|
|   |   | 1 unit  |   | Unit(s)   |        |
|  <p>8WH8 140-2AB05</p>   | <b>Labeling plates, front, for terminal width 5.2 mm, vertical inscription</b> <ul style="list-style-type: none"> <li>• Incremental 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>• Custom inscription</li> </ul>  | <b>8WH8 140-2AB05</b><br><b>8WH8 140-2AB15</b><br><b>8WH8 140-2AB25</b><br><b>8WH8 140-2AB35</b><br><b>8WH8 140-2AB45</b><br><b>8WH8 140-2AB55</b><br><b>8WH8 140-2AB65</b><br><b>8WH8 140-2AB75</b><br><b>8WH8 140-2AB85</b><br><b>8WH8 140-2AC05</b><br><b>8WH8 140-2XA05</b> | 044<br>044<br>044<br>044<br>044<br>044<br>044<br>044<br>044<br>044<br>044<br>044<br>044 | 100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100 |        |
|  <p>8WH8 110-2AA05</p>   | <b>Labeling plates, front, for terminal width 5.2 mm, blank</b>   | <b>8WH8 110-2AA05</b>   | 044   | 100   |        |
|   | Accessories   | Section   | Page  |   |        |
|   | <b>Labeling plates, flat, for terminal width 5.2 mm, horizontal inscription</b>   | Accessories   | 6/10  | <b>8WH8 121-2AB..</b>   | 044 10 |
|   | <b>Labeling plates, flat, for terminal width 5.2 mm, vertical inscription</b>   | Accessories   | 6/10  | <b>8WH8 141-2AB..</b>   | 044 10 |
|   | <b>Labeling plates, flat, for terminal width 5.2 mm, blank</b>  | Accessories   | 6/10  | <b>8WH8 111-2AA05</b>   | 044 10 |
|  <p>8WH9 040-3AB08</p>  | <b>Fused connectors</b><br>In fused connectors, 5 x 20 mm G fuses can be fitted ( $I_{max} = 6.3 A$ ) <ul style="list-style-type: none"> <li>• With LED display for 12 to 30 V</li> <li>• With LED display for 30 to 60 V</li> <li>• With LED display for 110 to 250 V</li> <li>• Without LED display</li> </ul>  | <b>8WH9 040-3AB08</b><br><b>8WH9 040-3BB08</b><br><b>8WH9 040-3CB08</b><br><b>8WH9 040-3DB08</b>  | 044<br>044<br>044<br>044  | 10<br>10<br>10<br>10  |        |
|  <p>8WH9 040-3DB08</p> | <b>Note</b> <ul style="list-style-type: none"> <li>• 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.</li> <li>• Higher ambient temperatures present an additional burden for the fuse links. In this case, take the offset of the rated current into account.</li> <li>• 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.</li> </ul> |   |   |   |        |
|   | <b>Connecting combs, for terminal width 5.2 mm<sup>2</sup></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><br><b>8WH9 020-6BD10</b><br><b>8WH9 020-6BE10</b><br><b>8WH9 020-6BF10</b><br><b>8WH9 020-6BL10</b><br><b>8WH9 020-6BS10</b><br><b>8WH9 020-6BT10</b>   | 044<br>044<br>044<br>044<br>044<br>044<br>044   | 50<br>50<br>50<br>50<br>10<br>10<br>10  |        |
|  <p>8WH9 040-0DB04</p> | <b>Isolating plugs</b><br>Orange  | <b>8WH9 040-0DB04</b>   | 044   | 50  |        |

# ALPHA FIX Terminal Blocks

## ALPHA FIX 8WH Combination Plug-In Terminals

### Plug-in receptacles

#### Overview

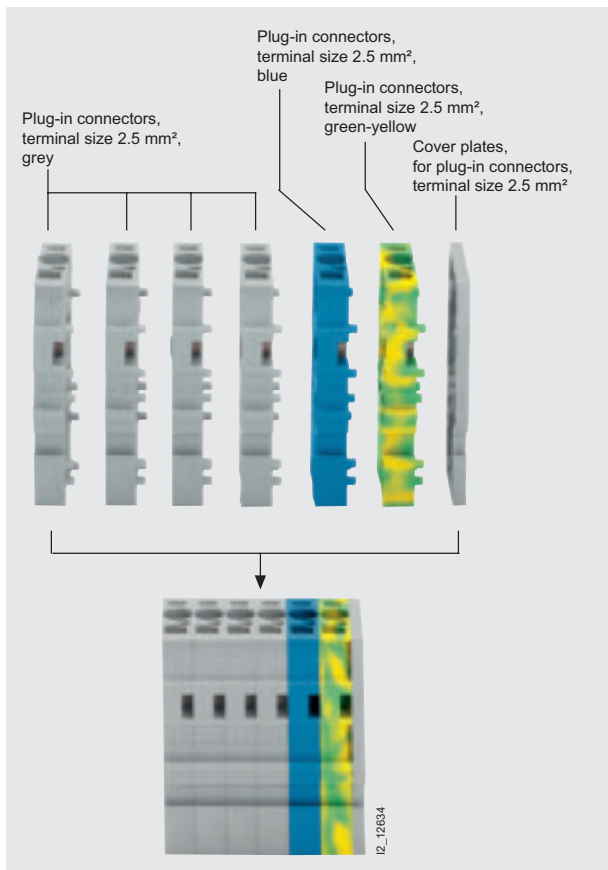


Assembled by the user from single-pin elements, the plug-in connectors in kit form provide a custom solution for every task. The connector is assembled with 1-pin connector elements according to user's requests.

The basic single-pin connector elements are available in the colors gray, blue and green-yellow.

3

#### Design



Example for a 6-pin connector

For each multi-pin connector, the required number of single-connector elements and one cover plate are needed. The individual elements and the cover plate are simply pushed together and engage with securing pins.

When assembling connectors for direct installation, an element with securing pins should be fitted at each end of the connector. For longer connectors, it is advisable to use an element with securing pins for at least every sixth element.

To ensure that the elements engage securely, the holes must be burr-free.

# ALPHA FIX Terminal Blocks

## ALPHA FIX 8WH Combination Plug-In Terminals





### Plug-in receptacles

#### Technical specifications

|  | 8WH9 050-0LB00 / -0LB01 | 8WH9 050-0LB07                | 8WH9 050-0AB00 / -0AB01    | 8WH9 050-0AB07                |
|--|-------------------------|-------------------------------|----------------------------|-------------------------------|
| <b>Dimensions</b>  |                         |                               |                            |                               |
| • Width / length / width of cover in mm  | 5.2 / 37.2 / 2.2        |                               | 6.2 / 48.6 / 3.2           |                               |
| • Height (NS 35/7.5 / NS 35/15) in mm  | 18                      |                               | 22.3                       |                               |
| <b>Technical specifications according to IEC/DIN VDE</b>                                   |                         |                               |                            |                               |
| • Max. load current <sup>1)</sup> per cross-section in A/mm <sup>2</sup>                   | 24 / 4                  |                               | 32 / 6                     |                               |
| • Rated impulse withstand voltage/pollution degree in kV / -                               | 6 / 3                   |                               | 8 / 3                      |                               |
| • Overvoltage category / insulating group - / -  | III / I                 |                               | III / I                    |                               |
| <b>Connection capacity</b>   |                         |                               |                            |                               |
| • Flexible with ferrule with plastic sleeve in mm <sup>2</sup>                             | 0.25 ... 2.5            |                               | 0.25 ... 4                 |                               |
| • Flexible without ferrule with plastic sleeve in mm <sup>2</sup>                          | 0.25 ... 2.5            |                               | 0.25 ... 4                 |                               |
| • Flexible with TWIN ferrule with plastic sleeve in mm <sup>2</sup>                        | 0.5                     |                               | 1                          |                               |
| <b>Stripped length</b>   | 10                      |                               |                            |                               |
| <b>Plug gage (IEC 60947-1)</b>   | A3                      |                               | A4                         |                               |
| <b>Insulation type</b>   | PA                      |                               |                            |                               |
| • Flammability class according to UL 94  | V0                      |                               |                            |                               |
| <b>Approval data (UL/CUL and CSA)</b>  |                         |                               |                            |                               |
| • Nominal voltage / current / cable sizes<br>- UL/CUL: in V/A / AWG<br>- CSA: in V/A / AWG | 600 / 20 / 26-12<br>-   |                               | Applied for<br>Applied for |                               |
| <b>Mounting rail/protective conductor busbars</b>  |                         | See section<br>Mounting rails |                            | See section<br>Mounting rails |

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






#### Selection and ordering data

| Version   | Order No.   | Price                            | PG          | PS*<br>P. unit |
|---|---|----------------------------------|-------------|----------------|
|   |   | 1 unit                           |             | Unit(s)        |
| <b>Terminal size 2.5 mm<sup>2</sup></b>   |   |                                  |             |                |
|  | <b>Plug-in connectors, terminal size 2.5 mm<sup>2</sup></b>   |                                  |             |                |
|   | <ul style="list-style-type: none"> <li>• Gray</li> <li>• Terminal width 5.2 mm</li> <li>•  us</li> <li>• Supply data                             <ul style="list-style-type: none"> <li>- Solid, 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 = 24 A</li> <li>- U = 500 V</li> </ul> </li> <li>• Number of pins = 1</li> </ul>         |                                  |             |                |
| 8WH9 050-0LB00  | <b>Versions</b>   |                                  |             |                |
|   | <ul style="list-style-type: none"> <li>• Gray</li> <li>• Blue</li> </ul>  | 8WH9 050-0LB00<br>8WH9 050-0LB01 | 044<br>044  | 50<br>50       |
|   | <b>Accessories</b>  | <b>Section</b>                   | <b>Page</b> |                |
|   | <b>Cover plates, for terminal size 2.5 mm<sup>2</sup></b>   | Accessories                      | 3/23        | 8WH9 000-7LA00 |
|  | <b>Plug-in PE connectors, terminal size 2.5 mm<sup>2</sup></b>  |                                  |             |                |
|   | <ul style="list-style-type: none"> <li>• Green-yellow</li> <li>• Terminal width 5.2 mm</li> <li>•  us</li> <li>• Supply data                             <ul style="list-style-type: none"> <li>- Solid, 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 = 24 A</li> <li>- U = 500 V</li> </ul> </li> <li>• Number of pins = 1</li> </ul> |                                  |             |                |
| 8WH9 050-0LB07  | <b>Versions</b>   |                                  |             |                |
|   |   |                                  |             | 8WH9 050-0LB07 |
|   | <b>Accessories</b>  | <b>Section</b>                   | <b>Page</b> |                |
|   | <b>Cover plates, for terminal size 2.5 mm<sup>2</sup></b>   | Accessories                      | 3/23        | 8WH9 000-7LA00 |
|   |   |                                  |             | 044            |
|   |   |                                  |             | 50             |

# ALPHA FIX Terminal Blocks

## ALPHA FIX 8WH Combination Plug-In Terminals



### Plug-in receptacles

| Version  | Order No.   | Price   | PG  | PS*<br>P. unit |             |         |      |  |  |   |             |      |                       |
|--|---|---|---|----------------|-------------|---------|------|--|--|---|-------------|------|-----------------------|
|  |   | 1 unit  |   | Unit(s)        |             |         |      |  |  |   |             |      |                       |
| <b>Terminal size 4 mm<sup>2</sup></b>  |   |   |   |                |             |         |      |  |  |   |             |      |                       |
|  <p>8WH9 050-0AB00</p>  | <b>Plug-in connectors, terminal size 4 mm<sup>2</sup></b> <ul style="list-style-type: none"> <li>• Gray</li> <li>• Terminal width 6.2 mm</li> <li>• Supply data                             <ul style="list-style-type: none"> <li>- Solid, 0.08 ... 6 mm<sup>2</sup></li> <li>- Flexible, 0.08 ... 24 mm<sup>2</sup></li> <li>- AWG 28-10</li> <li>- I = 32 A</li> <li>- U = 800 V</li> </ul> </li> <li>• Number of pins = 1</li> </ul>  |   |   |                |             |         |      |  |  |   |             |      |                       |
|  | <b>Versions</b> <ul style="list-style-type: none"> <li>• Gray <b>8WH9 050-0AB00</b> 044 50</li> <li>• Blue <b>8WH9 050-0AB01</b> 044 50</li> </ul>  |   |   |                |             |         |      |  |  |   |             |      |                       |
|  | <table border="1"> <thead> <tr> <th>Accessories</th> <th>Section</th> <th>Page</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td><b>Cover plates, for terminal size 4 mm<sup>2</sup></b></td> <td>Accessories</td> <td>3/23</td> <td><b>8WH9 003-7LA00</b></td> <td>044 50</td> </tr> </tbody> </table>  |   |   |                | Accessories | Section | Page |  |  | <b>Cover plates, for terminal size 4 mm<sup>2</sup></b> | Accessories | 3/23 | <b>8WH9 003-7LA00</b> |
| Accessories  | Section   | Page  |   |                |             |         |      |  |  |   |             |      |                       |
| <b>Cover plates, for terminal size 4 mm<sup>2</sup></b>  | Accessories   | 3/23  | <b>8WH9 003-7LA00</b>   | 044 50         |             |         |      |  |  |   |             |      |                       |
|  <p>8WH9 050-0AB00</p>  | <b>Plug-in PE connectors, terminal size 4 mm<sup>2</sup></b> <ul style="list-style-type: none"> <li>• Green-yellow</li> <li>• Terminal width 6.2 mm</li> <li>• Supply data                             <ul style="list-style-type: none"> <li>- Solid, 0.08 ... 6 mm<sup>2</sup></li> <li>- Flexible, 0.08 ... 24 mm<sup>2</sup></li> <li>- AWG 28-10</li> <li>- I = 32 A</li> <li>- U = 800 V</li> </ul> </li> <li>• Number of pins = 1</li> </ul>   |   |   |                |             |         |      |  |  |   |             |      |                       |
|  | <b>Versions</b> <ul style="list-style-type: none"> <li>• Green-yellow <b>8WH9 050-0AB07</b> 044 50</li> </ul>   |   |   |                |             |         |      |  |  |   |             |      |                       |
|  | <table border="1"> <thead> <tr> <th>Accessories</th> <th>Section</th> <th>Page</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td><b>Cover plates, for terminal size 4 mm<sup>2</sup></b></td> <td>Accessories</td> <td>3/23</td> <td><b>8WH9 003-7LA00</b></td> <td>044 50</td> </tr> </tbody> </table>  |   |   |                | Accessories | Section | Page |  |  | <b>Cover plates, for terminal size 4 mm<sup>2</sup></b> | Accessories | 3/23 | <b>8WH9 003-7LA00</b> |
| Accessories  | Section   | Page  |   |                |             |         |      |  |  |   |             |      |                       |
| <b>Cover plates, for terminal size 4 mm<sup>2</sup></b>  | Accessories   | 3/23  | <b>8WH9 003-7LA00</b>   | 044 50         |             |         |      |  |  |   |             |      |                       |
| <b>Accessories</b>   |   |   |   |                |             |         |      |  |  |   |             |      |                       |
| <b>Cover plates</b><br>Gray <ul style="list-style-type: none"> <li>• For terminal size 2.5 mm<sup>2</sup> <b>8WH9 000-7LA00</b> 044 50</li> <li>• For terminal size 4 mm<sup>2</sup> <b>8WH9 003-7LA00</b> 044 50</li> </ul> |   |   |   |                |             |         |      |  |  |   |             |      |                       |
|  <p>8WH8 121-2AB15</p>  | <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) <b>8WH8 121-2AB05</b> 044 100</li> <li>- 11 to 20 (10x) <b>8WH8 121-2AB15</b> 044 100</li> <li>- 21 to 30 (10x) <b>8WH8 121-2AB25</b> 044 100</li> <li>- 31 to 40 (10x) <b>8WH8 121-2AB35</b> 044 100</li> <li>- 41 to 50 (10x) <b>8WH8 121-2AB45</b> 044 100</li> <li>- 51 to 60 (10x) <b>8WH8 121-2AB55</b> 044 100</li> <li>- 61 to 70 (10x) <b>8WH8 121-2AB65</b> 044 100</li> <li>- 71 to 80 (10x) <b>8WH8 121-2AB75</b> 044 100</li> <li>- 81 to 90 (10x) <b>8WH8 121-2AB85</b> 044 100</li> <li>- 91 to 100 (10x) <b>8WH8 121-2AC05</b> 044 100</li> </ul> </li> <li>• Custom inscription <b>8WH8 121-2XA05</b> 044 100</li> </ul> |   |   |                |             |         |      |  |  |   |             |      |                       |
|  |  <p>8WH8 141-2AB05</p>   | <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) <b>8WH8 141-2AB05</b> 044 100</li> <li>- 11 to 20 (10x) <b>8WH8 141-2AB15</b> 044 100</li> <li>- 21 to 30 (10x) <b>8WH8 141-2AB25</b> 044 100</li> <li>- 31 to 40 (10x) <b>8WH8 141-2AB35</b> 044 100</li> <li>- 41 to 50 (10x) <b>8WH8 141-2AB45</b> 044 100</li> <li>- 51 to 60 (10x) <b>8WH8 141-2AB55</b> 044 100</li> <li>- 61 to 70 (10x) <b>8WH8 141-2AB65</b> 044 100</li> <li>- 71 to 80 (10x) <b>8WH8 141-2AB75</b> 044 100</li> <li>- 81 to 90 (10x) <b>8WH8 141-2AB85</b> 044 100</li> <li>- 91 to 100 (10x) <b>8WH8 141-2AC05</b> 044 100</li> </ul> </li> <li>• Custom inscription <b>8WH8 141-2XA05</b> 044 100</li> </ul> |   |                |             |         |      |  |  |   |             |      |                       |
|  |   | <b>Labeling plates, flat, for terminal width 5.2 mm, blank</b> <b>8WH8 111-2AA05</b> 044 100  |   |                |             |         |      |  |  |   |             |      |                       |
|  |   |  <p>8WH8 121-3AB05</p>   | <b>Labeling plates, flat, for terminal width 6.2 mm, horizontal inscription</b> <ul style="list-style-type: none"> <li>• Incremental numbering                             <ul style="list-style-type: none"> <li>- 1 to 10 (10x) <b>8WH8 121-3AB05</b> 044 100</li> <li>- 11 to 20 (10x) <b>8WH8 121-3AB15</b> 044 100</li> <li>- 21 to 30 (10x) <b>8WH8 121-3AB25</b> 044 100</li> <li>- 31 to 40 (10x) <b>8WH8 121-3AB35</b> 044 100</li> <li>- 41 to 50 (10x) <b>8WH8 121-3AB45</b> 044 100</li> <li>- 51 to 60 (10x) <b>8WH8 121-3AB55</b> 044 100</li> <li>- 61 to 70 (10x) <b>8WH8 121-3AB65</b> 044 100</li> <li>- 71 to 80 (10x) <b>8WH8 121-3AB75</b> 044 100</li> <li>- 81 to 90 (10x) <b>8WH8 121-3AB85</b> 044 100</li> <li>- 91 to 100 (10x) <b>8WH8 121-3AC05</b> 044 100</li> </ul> </li> <li>• Custom inscription <b>8WH8 121-3XA05</b> 044 100</li> </ul> |                |             |         |      |  |  |   |             |      |                       |

# ALPHA FIX Terminal Blocks

## ALPHA FIX 8WH Combination Plug-In Terminals

### Plug-in receptacles

| Version  | Order No.   | Price  | PG  | PS*<br>P. unit |
|--|---|--------|-----|----------------|
|  |   | 1 unit |     | Unit(s)        |
|  <p><b>Labeling plates, flat, for terminal width 6.2 mm, vertical inscription</b></p> <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 141-3AB05</b><br><b>8WH8 141-3AB15</b><br><b>8WH8 141-3AB25</b><br><b>8WH8 141-3AB35</b><br><b>8WH8 141-3AB45</b><br><b>8WH8 141-3AB55</b><br><b>8WH8 141-3AB65</b><br><b>8WH8 141-3AB75</b><br><b>8WH8 141-3AB85</b><br><b>8WH8 141-3AC05</b><br><b>8WH8 141-3XA05</b> |        | 044 | 100            |
|  <p><b>Labeling plates, flat, for terminal width 6.2 mm, blank</b></p>  | <b>8WH8 111-3AA05</b>   |        | 044 | 100            |

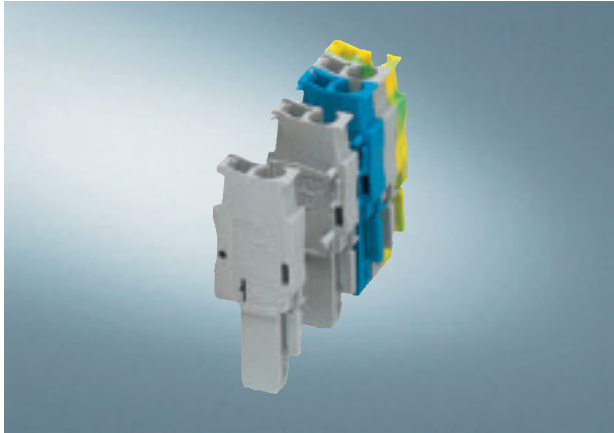


# ALPHA FIX Terminal Blocks

## ALPHA FIX 8WH Combination Plug-In Terminals

### Plugs

#### Overview

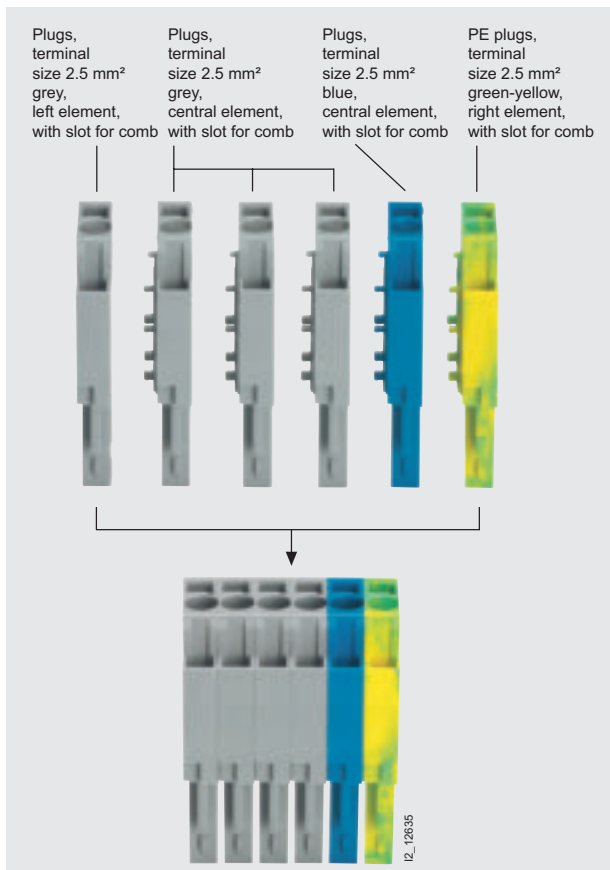


Assembled by the user from single-terminal elements, the combination plug-in connectors in kit form provide a custom solution for every task. The connector is assembled with 1-pin connector elements acc. to user's requests.

For the existing plugs with terminal sizes 2.5 mm<sup>2</sup> and 4 mm<sup>2</sup>, and the plug with comb connection and terminal size 2.5 mm<sup>2</sup>, single-terminal elements in the colors gray, blue and green-yellow are available.

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#### Design



For each multi-pin plug, a left and a right element are needed for the two ends of the assembled connector. The number of middle elements depends on the plug's required number of pins. The individual elements are simply pushed together and engage with securing pins.

Example for a 6-pin plug

# ALPHA FIX Terminal Blocks

## ALPHA FIX 8WH Combination Plug-In Terminals

### Plugs

#### Technical specifications

|  | 8WH9 040-1AB00<br>/-1AB01 /-1BB00<br>/-1BB01 /-1CB00<br>/-1CB01 /-1DB00<br>/-1DB01 /-1EB00<br>/-1EB01 /-1FB00<br>/-1FB01 | 8WH9 040-1AB07<br>/-1BB07 /-1CB07<br>/-1DB07/-1EB07<br>/-1FB07 | 8WH9 050-1KB00<br>/-1KB01 /-1LB00<br>/-1LB01 /-1MB00<br>/-1MB01 | 8WH9 050-1KB07<br>/-1LB07 /-1MB07 |
|--|--|--|---|-----------------------------------|
| <b>Dimensions</b>  |  |  |   |                                   |
| • Width / length / width of cover in mm                                  | -  |  |   |                                   |
| • Height (NS 35/7.5 / NS 35/15) in mm                                    | -  |  |   |                                   |
| <b>Technical specifications according to IEC/DIN VDE</b>                 |  |  |   |                                   |
| • Max. load current <sup>1)</sup> per cross-section in A/mm <sup>2</sup> | 24 / 4   |  | 32 / 6  |                                   |
| • Rated impulse withstand voltage/pollution degree in kV / -             | 6 / 3  |  | 8 / 3   |                                   |
| • Overvoltage category/insulating group - / -                            | III / I  |  |   |                                   |
| <b>Connection capacities</b>   |  |  |   |                                   |
| • Flexible with ferrule with plastic sleeve in mm <sup>2</sup>           | 0.25 ... 2.5   |  | 0.25 ... 4  |                                   |
| • Flexible without ferrule with plastic sleeve in mm <sup>2</sup>        | 0.25 ... 2.5   |  | 0.25 ... 4  |                                   |
| • Flexible with TWIN ferrule with plastic sleeve in mm <sup>2</sup>      | 0.5  |  | 0.5 ... 1   |                                   |
| <b>Stripped length</b>   | 10   |  |   |                                   |
| <b>Plug gage (IEC 60947-1)</b>   | A3   |  | A4  |                                   |
| <b>Insulation type</b>   | PA   |  |   |                                   |
| • Flammability class according to UL 94                                  | V0   |  |   |                                   |
| <b>Approval data (UL/CUL and CSA)</b>                                    |  |  |   |                                   |
| • Nominal voltage/current / cable sizes                                  | 600 / 20 / 26-12   |  | Applied for   |                                   |
| - UL/CUL: in V/A / AWG   |  |  | Applied for   |                                   |
| - CSA: in V/A / AWG  |  |  |   |                                   |
| <b>Mounting rail/protective conductor busbars</b>                        |  |  | See section<br>Mounting rails                                   | See section<br>Mounting rails     |

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

#### Selection and ordering data







| Version  | Order No.             | Price  | PG                    | PS*<br>P. unit |
|--|-----------------------|--------|-----------------------|----------------|
|  |                       | 1 unit |                       | Unit(s)        |
| <b>Terminal size 2.5 mm<sup>2</sup></b>  |                       |        |                       |                |
| <b>Plugs, terminal size 2.5 mm<sup>2</sup></b>   |                       |        |                       |                |
| <ul style="list-style-type: none"> <li>Terminal width 5.2 mm</li> <li>• <b>Gray</b></li> <li>• <b>Supply data</b> <ul style="list-style-type: none"> <li>- Solid, 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 = 24 A</li> <li>- U = 500 V</li> </ul> </li> <li>• Number of pins = 1</li> </ul>  |                       |        |                       |                |
| <b>Versions</b>  |                       |        |                       |                |
| <ul style="list-style-type: none"> <li>• Gray <ul style="list-style-type: none"> <li>- Left element, with slot for comb</li> <li>- Central element, with slot for comb</li> <li>- Right element, with slot for comb</li> <li>- Left element, without slot for comb</li> <li>- Central element, without slot for comb</li> <li>- Right element, without slot for comb</li> </ul> </li> <li>• Blue <ul style="list-style-type: none"> <li>- Left element, with slot for comb</li> <li>- Central element, with slot for comb</li> <li>- Right element, with slot for comb</li> <li>- Left element, without slot for comb</li> <li>- Central element, without slot for comb</li> <li>- Right element, without slot for comb</li> </ul> </li> </ul> |                       |        |                       |                |
| 8WH9 040-1DB00 / -1AB00  | <b>8WH9 040-1DB00</b> |        | 044                   | 50             |
|  | <b>8WH9 040-1EB00</b> |        | 044                   | 50             |
|  | <b>8WH9 040-1FB00</b> |        | 044                   | 50             |
|  | <b>8WH9 040-1AB00</b> |        | 044                   | 50             |
|  | <b>8WH9 040-1BB00</b> |        | 044                   | 50             |
|  | <b>8WH9 040-1CB00</b> |        | 044                   | 50             |
| 8WH9 040-1EB00 / -1BB00  | <b>8WH9 040-1DB01</b> |        | 044                   | 50             |
|  | <b>8WH9 040-1EB01</b> |        | 044                   | 50             |
|  | <b>8WH9 040-1FB01</b> |        | 044                   | 50             |
|  | <b>8WH9 040-1AB01</b> |        | 044                   | 50             |
|  | <b>8WH9 040-1BB01</b> |        | 044                   | 50             |
|  | <b>8WH9 040-1CB01</b> |        | 044                   | 50             |
| <b>Accessories</b>   |                       |        |                       |                |
| <b>Connecting combs, for terminal width 5.2 mm</b>   |                       |        |                       |                |
|  | Accessories           | 3/29   | <b>8WH9 020-6BC10</b> | 044 50         |
|  | Accessories           | 3/29   | <b>8WH9 020-6BD10</b> | 044 50         |
|  | Accessories           | 3/29   | <b>8WH9 020-6BE10</b> | 044 50         |
|  | Accessories           | 3/29   | <b>8WH9 020-6BF10</b> | 044 50         |
|  | Accessories           | 3/29   | <b>8WH9 020-6BL10</b> | 044 10         |
|  | Accessories           | 3/29   | <b>8WH9 020-6BS10</b> | 044 10         |
|  | Accessories           | 3/29   | <b>8WH9 020-6BT10</b> | 044 10         |
| <b>Latches</b>   |                       |        |                       |                |
|  | Accessories           | 3/29   | <b>8WH9 050-2BA04</b> | 044 50         |
|  | Accessories           | 3/29   | <b>8WH9 050-2AA04</b> | 044 50         |
| 8WH9 040-1FB00 / -1CB00  |                       |        |                       |                |

# ALPHA FIX Terminal Blocks

## ALPHA FIX 8WH Combination Plug-In Terminals

### Plugs








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| Version   |             | Order No.  | Price   | PG   | PS*<br>P. unit |  |  |                      |             |      |                         |             |      |  |     |    |
|---|-------------|--|---------|------|----------------|--|--|----------------------|-------------|------|-------------------------|-------------|------|--|-----|----|
|   |             |  | 1 unit  |      | Unit(s)        |  |  |                      |             |      |                         |             |      |  |     |    |
|  <p><b>PE plugs, terminal size 2.5 mm<sup>2</sup></b></p> <ul style="list-style-type: none"> <li>• Green-yellow</li> <li>• Terminal width 5.2 mm</li> <li>• <b>UL</b></li> <li>• Supply data           <ul style="list-style-type: none"> <li>- Solid, 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 = 24 A</li> <li>- U = 500 V</li> </ul> </li> <li>• Number of pins = 1</li> </ul> |             |  |         |      |                |  |  |                      |             |      |                         |             |      |  |     |    |
| 8WH9 040-1DB07 / -1AB07   |             |  |         |      |                |  |  |                      |             |      |                         |             |      |  |     |    |
|  <p><b>Versions</b></p> <ul style="list-style-type: none"> <li>• Left element, with slot for comb</li> <li>• Central element, with slot for comb</li> <li>• Right element, with slot for comb</li> <li>• Left element, without slot for comb</li> <li>• Central element, without slot for comb</li> <li>• Right element, without slot for comb</li> </ul>  |             | <b>8WH9 040-1DB07</b><br><b>8WH9 040-1EB07</b><br><b>8WH9 040-1FB07</b><br><b>8WH9 040-1AB07</b><br><b>8WH9 040-1BB07</b><br><b>8WH9 040-1CB07</b> |         | 044  | 50             |  |  |                      |             |      |                         |             |      |  |     |    |
| 8WH9 040-1EB07 / -1BB07   |             |  |         |      |                |  |  |                      |             |      |                         |             |      |  |     |    |
|  <p><b>Accessories</b></p> <table border="1"> <thead> <tr> <th>Accessories</th> <th>Section</th> <th>Page</th> </tr> </thead> <tbody> <tr> <td><b>Latches</b></td> <td></td> <td></td> </tr> <tr> <td>• With strain relief</td> <td>Accessories</td> <td>3/29</td> </tr> <tr> <td>• Without strain relief</td> <td>Accessories</td> <td>3/29</td> </tr> </tbody> </table>  |             | Accessories  | Section | Page | <b>Latches</b> |  |  | • With strain relief | Accessories | 3/29 | • Without strain relief | Accessories | 3/29 | <b>8WH9 050-2BA04</b><br><b>8WH9 050-2AA04</b> | 044 | 50 |
| Accessories   | Section     | Page   |         |      |                |  |  |                      |             |      |                         |             |      |  |     |    |
| <b>Latches</b>  |             |  |         |      |                |  |  |                      |             |      |                         |             |      |  |     |    |
| • With strain relief  | Accessories | 3/29   |         |      |                |  |  |                      |             |      |                         |             |      |  |     |    |
| • Without strain relief   | Accessories | 3/29   |         |      |                |  |  |                      |             |      |                         |             |      |  |     |    |
| 8WH9 040-1FB07 / -1CB07   |             |  |         |      |                |  |  |                      |             |      |                         |             |      |  |     |    |
| <b>Terminal size 4 mm<sup>2</sup></b>   |             |  |         |      |                |  |  |                      |             |      |                         |             |      |  |     |    |
|  <p><b>Plugs, terminal size 4 mm<sup>2</sup>, without slot for comb</b></p> <ul style="list-style-type: none"> <li>• Terminal width 6.2 mm</li> <li>• Supply data           <ul style="list-style-type: none"> <li>- Solid, 0.08 ... 6 mm<sup>2</sup></li> <li>- Flexible, 0.08 ... 24 mm<sup>2</sup></li> <li>- AWG 28-10</li> <li>- I = 32 A</li> <li>- U = 800 V</li> </ul> </li> <li>• Number of pins = 1</li> </ul>                           |             |  |         |      |                |  |  |                      |             |      |                         |             |      |  |     |    |
| 8WH9 040-1KB00  |             |  |         |      |                |  |  |                      |             |      |                         |             |      |  |     |    |
|  <p><b>Versions</b></p> <ul style="list-style-type: none"> <li>• Gray           <ul style="list-style-type: none"> <li>- Left element</li> <li>- Center element</li> <li>- Right element</li> </ul> </li> <li>• Blue           <ul style="list-style-type: none"> <li>- Left element</li> <li>- Center element</li> <li>- Right element</li> </ul> </li> </ul>   |             | <b>8WH9 040-1KB00</b><br><b>8WH9 040-1LB00</b><br><b>8WH9 040-1MB00</b><br><b>8WH9 040-1KB01</b><br><b>8WH9 040-1LB01</b><br><b>8WH9 040-1MB01</b> |         | 044  | 50             |  |  |                      |             |      |                         |             |      |  |     |    |
| 8WH9 040-1LB00  |             |  |         |      |                |  |  |                      |             |      |                         |             |      |  |     |    |
|  <p><b>Accessories</b></p> <table border="1"> <thead> <tr> <th>Accessories</th> <th>Section</th> <th>Page</th> </tr> </thead> <tbody> <tr> <td><b>Latches</b></td> <td></td> <td></td> </tr> <tr> <td>• With strain relief</td> <td>Accessories</td> <td>3/29</td> </tr> <tr> <td>• Without strain relief</td> <td>Accessories</td> <td>3/29</td> </tr> </tbody> </table>  |             | Accessories  | Section | Page | <b>Latches</b> |  |  | • With strain relief | Accessories | 3/29 | • Without strain relief | Accessories | 3/29 | <b>8WH9 050-2BA04</b><br><b>8WH9 050-2AA04</b> | 044 | 50 |
| Accessories   | Section     | Page   |         |      |                |  |  |                      |             |      |                         |             |      |  |     |    |
| <b>Latches</b>  |             |  |         |      |                |  |  |                      |             |      |                         |             |      |  |     |    |
| • With strain relief  | Accessories | 3/29   |         |      |                |  |  |                      |             |      |                         |             |      |  |     |    |
| • Without strain relief   | Accessories | 3/29   |         |      |                |  |  |                      |             |      |                         |             |      |  |     |    |
| 8WH9 040-1MB00  |             |  |         |      |                |  |  |                      |             |      |                         |             |      |  |     |    |

# ALPHA FIX Terminal Blocks

## ALPHA FIX 8WH Combination Plug-In Terminals




### Plugs

| Version   |   | Order No.   | Price  | PG  | PS*<br>P. unit |
|---|---|---|--------|-----|----------------|
|   |   |   | 1 unit |     | Unit(s)        |
|    | <b>PE plugs, terminal size 4 mm<sup>2</sup>, without slot for comb</b> <ul style="list-style-type: none"> <li>Green-yellow</li> <li>Terminal width 6.2 mm</li> <li>Supply data                             <ul style="list-style-type: none"> <li>Solid, 0.08 ... 6 mm<sup>2</sup></li> <li>Flexible, 0.08 ... 24 mm<sup>2</sup></li> <li>AWG 28-10</li> <li>I = 32 A</li> <li>U = 800 V</li> </ul> </li> <li>Number of pins = 1</li> </ul>   |   |        |     | 50             |
| 8WH9 040-1KB07  | <b>Versions</b> <ul style="list-style-type: none"> <li>Left element</li> <li>Center element</li> <li>Right element</li> </ul>   | <b>8WH9 040-1KB07</b><br><b>8WH9 040-1LB07</b><br><b>8WH9 040-1MB07</b>   |        | 044 | 50             |
|    | <b>Accessories</b>  | Section   | Page   |     |                |
|   | <b>Latches</b> <ul style="list-style-type: none"> <li>With strain relief</li> <li>Without strain relief</li> </ul>  | Accessories   | 3/29   | 044 | 50             |
| 8WH9 040-1LB07  |   | Accessories   | 3/29   | 044 | 50             |
|   |   |   |        |     |                |
| 8WH9 040-1MB07  |   |   |        |     |                |
| <b>Accessories</b>  |   |   |        |     |                |
|  | <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> |   |        |     |                |
| 8WH8 121-2AB05  |   | <b>8WH8 121-2AB05</b><br><b>8WH8 121-2AB15</b><br><b>8WH8 121-2AB25</b><br><b>8WH8 121-2AB35</b><br><b>8WH8 121-2AB45</b><br><b>8WH8 121-2AB55</b><br><b>8WH8 121-2AB65</b><br><b>8WH8 121-2AB75</b><br><b>8WH8 121-2AB85</b><br><b>8WH8 121-2AC05</b><br><b>8WH8 121-2XA05</b> |        | 044 | 100            |
|  | <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>Custom inscription</li> </ul>   |   |        |     |                |
| 8WH8 141-2AB05  |   | <b>8WH8 141-2AB05</b><br><b>8WH8 141-2AB15</b><br><b>8WH8 141-2AB25</b><br><b>8WH8 141-2AB35</b><br><b>8WH8 141-2AB45</b><br><b>8WH8 141-2AB55</b><br><b>8WH8 141-2AB65</b><br><b>8WH8 141-2AB75</b><br><b>8WH8 141-2AB85</b><br><b>8WH8 141-2AC05</b><br><b>8WH8 141-2XA05</b> |        | 044 | 100            |
|  | <b>Labeling plates, flat, for terminal width 5.2 mm, blank</b>  |   |        |     |                |
| 8WH8 111-2AA05  |   | <b>8WH8 111-2AA05</b>   |        | 044 | 100            |
|  | <b>Labeling plates, flat, for terminal width 6.2 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> |   |        |     |                |
| 8WH8 121-3AB05  |   | <b>8WH8 121-3AB05</b><br><b>8WH8 121-3AB15</b><br><b>8WH8 121-3AB25</b><br><b>8WH8 121-3AB35</b><br><b>8WH8 121-3AB45</b><br><b>8WH8 121-3AB55</b><br><b>8WH8 121-3AB65</b><br><b>8WH8 121-3AB75</b><br><b>8WH8 121-3AB85</b><br><b>8WH8 121-3AC05</b><br><b>8WH8 121-3XA05</b> |        | 044 | 100            |

# ALPHA FIX Terminal Blocks

## ALPHA FIX 8WH Combination Plug-In Terminals

### Plugs

| Version  | Order No.   | Price          | PG  | PS*<br>P. unit |
|--|---|----------------|-----|----------------|
|  |   | 1 unit         |     | Unit(s)        |
|   | <b>Labeling plates, flat, for terminal width 6.2 mm, vertical inscription</b> |                |     |                |
|  | • Incremental numbering   |                |     |                |
|  | - 1 to 10 (10x)   | 8WH8 141-3AB05 | 044 | 100            |
|  | - 11 to 20 (10x)  | 8WH8 141-3AB15 | 044 | 100            |
|  | - 21 to 30 (10x)  | 8WH8 141-3AB25 | 044 | 100            |
|  | - 31 to 40 (10x)  | 8WH8 141-3AB35 | 044 | 100            |
|  | - 41 to 50 (10x)  | 8WH8 141-3AB45 | 044 | 100            |
|  | - 51 to 60 (10x)  | 8WH8 141-3AB55 | 044 | 100            |
|  | - 61 to 70 (10x)  | 8WH8 141-3AB65 | 044 | 100            |
|  | - 71 to 80 (10x)  | 8WH8 141-3AB75 | 044 | 100            |
|  | - 81 to 90 (10x)  | 8WH8 141-3AB85 | 044 | 100            |
|  | - 91 to 100 (10x)   | 8WH8 141-3AC05 | 044 | 100            |
| 8WH8 141-3AB05   | • Custom inscription  | 8WH8 141-3XA05 | 044 | 100            |
|   | <b>Labeling plates, flat, for terminal width 6.2 mm, blank</b>                | 8WH8 111-3AA05 | 044 | 100            |
| 8WH8 111-3AA05   |   |                |     |                |
|  | <b>Connecting combs, for terminal width 5.2 mm</b>                            |                |     |                |
|  | • 2-pole  | 8WH9 020-6BC10 | 044 | 50             |
|  | • 3-pole  | 8WH9 020-6BD10 | 044 | 50             |
|  | • 4-pole  | 8WH9 020-6BE10 | 044 | 50             |
|  | • 5-pole  | 8WH9 020-6BF10 | 044 | 50             |
|  | • 10-pole   | 8WH9 020-6BL10 | 044 | 10             |
|  | • 20-pole   | 8WH9 020-6BS10 | 044 | 10             |
|  | • 50-pole   | 8WH9 020-6BT10 | 044 | 10             |
|  | <b>Latches</b>  |                |     |                |
|  | Number of poles: 2  |                |     |                |
|  | • With strain relief  | 8WH9 050-2BA04 | 044 | 50             |
|  | • Without strain relief   | 8WH9 050-2AA04 | 044 | 50             |
| 8WH9 050-2BA04   |   |                |     |                |

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# ALPHA FIX Terminal Blocks

## ALPHA FIX 8WH Combination Plug-In Terminals

### Mounting rails/protective conductor busbars

#### Technical specifications

| Mounting rail type |        |                |                      |                         |            |   | Excerpt from IEC 60947-7-2/EN 60947-7-2/<br>VDE 0611 Part 3 |   |  |
|--------------------|--------|----------------|----------------------|-------------------------|------------|---|---|---|--|
| Width              | Height | Thick-<br>ness | Perforation<br>type  | Material                | Surface    | Rail profile  | Short-circuit<br>rating $\cong$ E CU<br>conductor           | Short-time<br>withstand<br>current, 1 s | Max. permissi-<br>ble thermal<br>rated current<br>at PEN<br>function |
| mm                 | mm     | mm             |                      |                         |            |   | mm <sup>2</sup> <sup>1)</sup>                               | kA                                      | A  |
| 35                 | 7.5    | 1.5            | Without<br>apertures | Steel                   | Chromated  | Mounting rail, to EN 60715 – 35 x 7.5                 | 16  | 1.92                                    | <sup>2)</sup>  |
| 35                 | 7.5    | 1.5            | Perforated           | Steel                   | Chromated  | Mounting rail, to EN 60715 – 35 x 7.5                 | 16  | 1.92                                    | <sup>2)</sup>  |
| 35                 | 7.5    | 1.5            | Without<br>apertures | Steel                   | Galvanized | Mounting rail, dimensions acc. to EN 60715 – 35 x 7.5 | 16  | 1.92                                    | <sup>2)</sup>  |
| 35                 | 7.5    | 1.5            | Perforated           | Steel                   | Galvanized | Mounting rail, dimensions acc. to EN 60715 – 35 x 7.5 | 16  | 1.92                                    | <sup>2)</sup>  |
| 35                 | 7.5    | 1.5            | Without<br>apertures | V2A high-grade<br>steel | Chromated  | Mounting rail, dimensions acc. to EN 60715 – 35 x 7.5 | 16  | 1.92                                    | <sup>2)</sup>  |
| 35                 | 7.5    | 1.5            | Without<br>apertures | Copper                  | Chromated  | Mounting rail, dimensions acc. to EN 60715 – 35 x 7.5 | 50  | 6.0                                     | 150  |
| 35                 | 7.5    | 1.5            | Without<br>apertures | Aluminum                | Chromated  | Mounting rail, dimensions acc. to EN 60715 – 35 x 7.5 | 35  | 4.2                                     | 125  |
| 35                 | 15     | 2.3            | Without<br>apertures | Steel                   | Chromated  | Mounting rail, acc. to EN 60715 – 35 x 15             | 50  | 6.0                                     | <sup>2)</sup>  |
| 35                 | 15     | 1.5            | Without<br>apertures | Steel                   | Chromated  | Mounting rail, similar to EN 60715 – 35 x 15          | 35  | 4.2                                     | <sup>2)</sup>  |
| 35                 | 15     | 1.5            | Perforated           | Steel                   | Chromated  | Mounting rail, similar to EN 60715 – 35 x 15          | 35  | 4.2                                     | <sup>2)</sup>  |
| 35                 | 15     | 1.5            | Without<br>apertures | Steel                   | Galvanized | Mounting rail, similar to EN 60715 – 35 x 15          | 35  | 4.2                                     | <sup>2)</sup>  |
| 35                 | 15     | 1.5            | Perforated           | Steel                   | Galvanized | Mounting rail, similar to EN 60715 – 35 x 15          | 35  | 4.2                                     | <sup>2)</sup>  |
| 35                 | 15     | 1.5            | Without<br>apertures | Copper                  | Chromated  | Mounting rail, similar to EN 60715 – 35 x 15          | 95  | 11.4                                    | 232  |
| 35                 | 15     | 1.5            | Without<br>apertures | Aluminum                | Chromated  | Mounting rail, similar to EN 60715 – 35 x 15          | 70  | 8.4                                     | 192  |

1) Cross-sections calculated according to IEC 60439-1 / EN 60439-1 / DIN 60439-1 / VDE 0660 Part 500.

2) Steel protective conductor busbars are not permissible for PEN function.