

**AITB 2.5 BB N-L-PE****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)**Building installation wiring**

For building installations, we offer a complete system that revolves around the 10×3 copper rail and comprises perfectly coordinated components: from installation terminal blocks, neutral conductor terminal blocks and distribution terminal blocks to comprehensive accessories such as busbars and busbar holders.

**General ordering data**

|            |                            |
|------------|----------------------------|
| Order No.  | <a href="#">2668940000</a> |
| Type       | AITB 2.5 BB N-L-PE         |
| GTIN (EAN) | 4064675030522              |
| Qty.       | 50 pc(s).                  |

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## Technical data

### Dimensions and weights

|            |         |                 |            |
|------------|---------|-----------------|------------|
| Depth      | 50.1 mm | Depth (inches)  | 1.972 inch |
| Height     | 103 mm  | Height (inches) | 4.055 inch |
| Width      | 5.1 mm  | Width (inches)  | 0.201 inch |
| Net weight | 18.76 g |                 |            |

### Temperatures

|                                  |                |                                  |        |
|----------------------------------|----------------|----------------------------------|--------|
| Storage temperature              | -25 °C...55 °C | Continuous operating temp., min. | -60 °C |
| Continuous operating temp., max. | 130 °C         |                                  |        |

### Material data

|                                |        |                           |            |
|--------------------------------|--------|---------------------------|------------|
| Material                       | Wemid  | Colour                    | dark beige |
| Colour of operational elements | orange | UL 94 flammability rating | V-0        |

### System specifications

|                          |       |                                     |    |
|--------------------------|-------|-------------------------------------|----|
| End cover plate required | Yes   | Number of potentials                | 3  |
| Number of levels         | 3     | Number of clamping points per level | 2  |
| Rail                     | TS 35 | N-function                          | No |
| PE function              | Yes   | PEN function                        | No |

### Additional technical data

|                  |         |         |     |
|------------------|---------|---------|-----|
| Open sides       | right   | Snap-on | Yes |
| Type of mounting | Snap-on |         |     |

### Conductors for clamping (rated connection)

|  |  |      |                      |
|--|--|------|----------------------|
| Blade size   | 0.6 x 3.5 mm                           |      |                      |
| Clamping range, max.   | 4 mm <sup>2</sup>                      |      |                      |
| Clamping range, min.   | 0.14 mm <sup>2</sup>                   |      |                      |
| Connection cross-section, stranded, max.                         | 4 mm <sup>2</sup>                      |      |                      |
| Connection cross-section, stranded, min.                         | 0.5 mm <sup>2</sup>                    |      |                      |
| Connection direction   | top                                    |      |                      |
| Gauge to IEC 60947-1   | A3                                     |      |                      |
| Number of connections  | 5                                      |      |                      |
| Stripping length   | 10 mm                                  |      |                      |
| Tube length for twin wire-end ferrule                            | Cross-section for conductor connection | min. | 0.5 mm <sup>2</sup>  |
|  |  | max. | 0.75 mm <sup>2</sup> |
|  | Tube length                            | max. | 12 mm                |
|  |  | min. | 8 mm                 |
| Tube length for wire-end ferrule with plastic collar DIN 46228/4 | Tube length                            | max. | 8 mm                 |
|  |  | min. | 6 mm                 |
|  | Cross-section for conductor connection | min. | 0.14 mm <sup>2</sup> |
|  |  | max. | 0.34 mm <sup>2</sup> |
|  | Tube length                            | max. | 12 mm                |
|  |  | min. | 6 mm                 |
|  | Cross-section for conductor connection | min. | 0.5 mm <sup>2</sup>  |
|  |  | max. | 1 mm <sup>2</sup>    |
|  | Tube length                            | max. | 12 mm                |
|  |  | min. | 8 mm                 |
|  | Cross-section for conductor connection | min. | 1.5 mm <sup>2</sup>  |
|  |  | max. | 2.5 mm <sup>2</sup>  |

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|   |  |                      |                      |  |
|---|--|----------------------|----------------------|--|
| Tube length for wire-end ferrule without plastic collar DIN 46228/1                     | Cross-section for conductor connection | nominal              | 0.25 mm <sup>2</sup> |  |
|   | Tube length                            | nominal              | 5 mm                 |  |
|   | Cross-section for conductor connection | min.                 | 0.5 mm <sup>2</sup>  |  |
|   |  | max.                 | 1 mm <sup>2</sup>    |  |
|   | Tube length                            | max.                 | 10 mm                |  |
|   |  | min.                 | 6 mm                 |  |
|   | Cross-section for conductor connection | min.                 | 1.5 mm <sup>2</sup>  |  |
|   |  | max.                 | 2.5 mm <sup>2</sup>  |  |
|   | Tube length                            | max.                 | 12 mm                |  |
|   |  | min.                 | 7 mm                 |  |
|   | Twin wire-end ferrules, max.           | 0.75 mm <sup>2</sup> |                      |  |
|   | Twin wire-end ferrules, min.           | 0.5 mm <sup>2</sup>  |                      |  |
| Type of connection  | PUSH IN                                |                      |                      |  |
| Wire connection cross section AWG, max.   | AWG 12                                 |                      |                      |  |
| Wire connection cross section AWG, min.   | AWG 28                                 |                      |                      |  |
| Wire connection cross section, finely stranded, max.                                    | 4 mm <sup>2</sup>                      |                      |                      |  |
| Wire connection cross section, finely stranded, min.                                    | 0.5 mm <sup>2</sup>                    |                      |                      |  |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max. | 2.5 mm <sup>2</sup>                    |                      |                      |  |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min. | 0.5 mm <sup>2</sup>                    |                      |                      |  |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max. | 2.5 mm <sup>2</sup>                    |                      |                      |  |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min. | 0.5 mm <sup>2</sup>                    |                      |                      |  |
| Wire connection cross-section, solid core, max.   | 4 mm <sup>2</sup>                      |                      |                      |  |
| Wire connection cross-section, solid core, min.   | 0.5 mm <sup>2</sup>                    |                      |                      |  |

### General

|   |        |   |                      |
|---|--------|---|----------------------|
| Rail                                    | TS 35  | Standards                               | IEC 60947-7-1 (-7-2) |
| Wire connection cross section AWG, max. | AWG 12 | Wire connection cross section AWG, min. | AWG 28               |

### Rating data

|                                 |                      |  |         |
|---------------------------------|----------------------|--|---------|
| Rated cross-section             | 2.5 mm <sup>2</sup>  | Rated voltage                                | 250 V   |
| Rated current                   | 24 A                 | Current at maximum wires                     | 27 A    |
| Standards                       | IEC 60947-7-1 (-7-2) | Volume resistance according to IEC 60947-7-x | 1.33 mΩ |
| Rated impulse withstand voltage | 4 kV                 | Power loss in accordance with IEC 60947-7-x  | 0.77 W  |
| Rated voltage (L / L)           | 400 V                | Rated voltage (L / N)                        | 250 V   |
| Rated voltage (L / PE)          | 250 V                | Pollution severity                           | 3       |
| Surge voltage category          | III                  |  |         |

**Data sheet**

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**Technical data**

**Classifications**

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC001329    | ETIM 7.0    | EC001329    |
| ETIM 8.0    | EC001329    | ECLASS 9.0  | 27-14-11-25 |
| ECLASS 9.1  | 27-14-11-25 | ECLASS 10.0 | 27-14-11-25 |
| ECLASS 11.0 | 27-14-11-25 | ECLASS 12.0 | 27-14-11-25 |

**Approvals**

Approvals



**Downloads**

|   |   |
|---|---|
| Approval/Certificate/Document of Conformity | <a href="#">CB Testreport</a><br><a href="#">CE Declaration of Conformity</a><br><a href="#">UKCA declaration of conformity</a> |
| Engineering Data                            | <a href="#">CAD data – STEP</a>   |
| Tender specification                        | <a href="#">Ausschreibungstext AITB 2.5 BB N-L-PE</a>   |
| User Documentation                          | <a href="#">BPZL A-INSTA 2.5 mm² 3-tier</a>   |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>  |

**Data sheet**

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**Drawings**

