# BUZ 10.16IT/04/180MF3 AG BK BX LRP

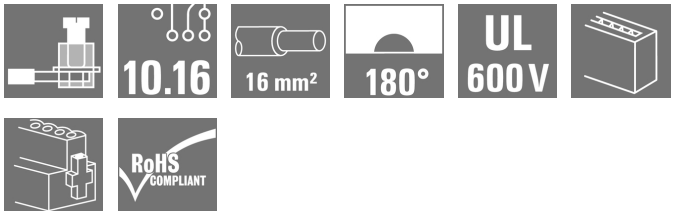
**Weidmüller Interface GmbH & Co. KG**
Klingenbergstraße 26
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Germany

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## Product image



Similar to illustration




180° female plug with 10.16 pitch for IT power networks. Meets the requirements of UL1059 600 V class C. In combination with male header SU 10.16 IT with leading contact.
Meets the extended requirements on 5.5 mm touch safety for IT power networks as per IEC 61800-5-1 for 400 V to earth.
The self-locking (optionally also screwable) middle flange reduces the space requirements by one pitch width in comparison with conventional solutions.
Also optionally available without middle flange interlock.

### General ordering data

| | |
|---|---|
| Version | PCB plug-in connector, female plug, 10.16 mm, Number of poles: 4, 180°, Clamping yoke connection, Clamping range, max. : 16 mm², Box |
| Order No. | 2474010000 |
| Type | BUZ 10.16IT/04/180MF3 AG BK BX LRP |
| GTIN (EAN) | 4050118485479 |
| Qty. | 18 pc(s). |
| Product data | IEC: 1000 V / 78.3 A / 0.2 - 16 mm²<br>UL: 600 V / 60 A / AWG 22 - AWG 4 |
| Packaging | Box |

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## Technical data

### Dimensions and weights

| | | | |
|---|---|---|---|
| Depth | 52.3 mm | Depth (inches) | 2.059 inch |
| Height | 36 mm | Height (inches) | 1.417 inch |
| Net weight | 56.822 g | | |

### System Parameters

| | | | |
|---|---|---|---|
| Product family | OMNIMATE Power - series BU/SU 10.16IT | Type of connection | Field connection |
| Wire connection method | Clamping yoke connection | Pitch in mm (P) | 10.16 mm |
| Pitch in inches (P) | 0.4 inch | Conductor outlet direction | 180° |
| Number of poles | 4 | L1 in mm | 40.64 mm |
| L1 in inches | 1.6 inch | Pin series quantity | 1 |
| Rated cross-section | 16 mm² | Touch-safe protection acc. to DIN VDE 57 106 | Safe from finger touch |
| Touch-safe protection acc. to DIN VDE 0470 | IP 20 | Volume resistance | 4.50 mΩ |
| Can be coded | Yes | Stripping length | 12 mm |
| Tightening torque, min. | 1.2 Nm | Tightening torque, max. | 2 Nm |
| Clamping screw | M 4 | Screwdriver blade standard | DIN 5264, ISO 8764/2-PZ |
| Plugging cycles | 25 | Plugging force/pole, max. | 14.5 N |
| Pulling force/pole, max. | 14.5 N | | |

### Material data

| | | | |
|---|---|---|---|
| Insulating material | PA GF | Insulating material group | I |
| Comparative Tracking Index (CTI) | ≥ 600 | UL 94 flammability rating | V-0 |
| Contact material | Copper alloy | Contact surface | silver-plated |
| Layer structure of plug contact | ≥ 3 µm Ag | Storage temperature, min. | -40 °C |
| Storage temperature, max. | 70 °C | Operating temperature, min. | -50 °C |
| Operating temperature, max. | 130 °C | Temperature range, installation, min. | -25 °C |
| Temperature range, installation, max. | 130 °C | | |

### Conductors suitable for connection

| | |
|---|---|
| Clamping range, min. | 0.2 mm² |
| Clamping range, max. | 16 mm² |
| Wire connection cross section AWG, min. | AWG 22 |
| Wire connection cross section AWG, max. | AWG 4 |
| Solid, min. H05(07) V-U | 0.2 mm² |
| Solid, max. H05(07) V-U | 16 mm² |
| Stranded, min. H07V-R | 6 mm² |
| Stranded, max. H07V-R | 16 mm² |
| Flexible, min. H05(07) V-K | 0.5 mm² |
| Flexible, max. H05(07) V-K | 16 mm² |
| w. plastic collar ferrule, DIN 46228 pt 4, min. | 0.25 mm² |
| w. plastic collar ferrule, DIN 46228 pt 4, max. | 16 mm² |
| w. wire end ferrule, DIN 46228 pt 1, min. | 0.25 mm² |
| w. wire end ferrule, DIN 46228 pt 1, max. | 16 mm² |
| Plug gauge in accordance with EN 60999 a x b; ø | 5.3mm (B6) |

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## Technical data

| | | | |
|---|---|---|---|
| Clampable conductor | Cross-section for conductor connection | Type | fine-wired |
| | | nominal | 0.5 mm² |
| | wire end ferrule | Stripping length | nominal 14 mm |
| | | Recommended wire-end ferrule | H0,5/18 OR |
| | Cross-section for conductor connection | Type | fine-wired |
| | | nominal | 1 mm² |
| | wire end ferrule | Stripping length | nominal 15 mm |
| | | Recommended wire-end ferrule | H1,0/18 GE |
| | Cross-section for conductor connection | Type | fine-wired |
| | | nominal | 1.5 mm² |
| | wire end ferrule | Stripping length | nominal 15 mm |
| | | Recommended wire-end ferrule | H1,5/18D SW |
| | | Stripping length | nominal 12 mm |
| | | Recommended wire-end ferrule | H1,5/12 |
| | Cross-section for conductor connection | Type | fine-wired |
| | | nominal | 0.75 mm² |
| | wire end ferrule | Stripping length | nominal 14 mm |
| | | Recommended wire-end ferrule | H0,75/18 W |
| | Cross-section for conductor connection | Type | fine-wired |
| | | nominal | 2.5 mm² |
| | wire end ferrule | Stripping length | nominal 14 mm |
| | | Recommended wire-end ferrule | H2,5/19D BL |
| | | Stripping length | nominal 12 mm |
| | | Recommended wire-end ferrule | H2,5/12 |
| | Cross-section for conductor connection | Type | fine-wired |
| | | nominal | 4 mm² |
| | wire end ferrule | Stripping length | nominal 12 mm |
| | | Recommended wire-end ferrule | H4,0/12 |
| | | Stripping length | nominal 14 mm |
| | | Recommended wire-end ferrule | H4,0/20D GR |
| | Cross-section for conductor connection | Type | fine-wired |
| | | nominal | 6 mm² |
| | wire end ferrule | Stripping length | nominal 14 mm |
| | | Recommended wire-end ferrule | H6,0/20 SW |
| | | Stripping length | nominal 12 mm |
| | | Recommended wire-end ferrule | H6,0/12 |
| | Cross-section for conductor connection | Type | fine-wired |
| | | nominal | 10 mm² |
| | wire end ferrule | Stripping length | nominal 12 mm |
| | | Recommended wire-end ferrule | H10,0/12 |
| | | Stripping length | nominal 15 mm |
| | | Recommended wire-end ferrule | H10,0/22 EB |
| | Cross-section for conductor connection | Type | fine-wired |
| | | nominal | 16 mm² |
| | wire end ferrule | Stripping length | nominal 12 mm |
| | | Recommended wire-end ferrule | H16,0/12 |
| | | Stripping length | nominal 15 mm |
| | | Recommended wire-end ferrule | H16,0/22 GN |

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## Technical data

| | |
|---|---|
| Reference text | Length of ferrules is to be chosen depending on the product and the rated voltage. |

### Rated data acc. to IEC

| | | | |
|---|---|---|---|
| tested acc. to standard | IEC 60664-1, IEC 61984 | Rated current, min. number of poles (Tu=20°C) | 78.3 A |
| Rated current, max. number of poles (Tu=20°C) | 67.9 A | Rated current, min. number of poles (Tu=40°C) | 70.6 A |
| Rated current, max. number of poles (Tu=40°C) | 61.3 A | Rated voltage for surge voltage class / pollution degree II/2 | 1,000 V |
| Rated voltage for surge voltage class / pollution degree III/2 | 1,000 V | Rated voltage for surge voltage class / pollution degree III/3 | 1,000 V |
| Rated impulse voltage for surge voltage class/ pollution degree II/2 | 6 kV | Rated impulse voltage for surge voltage class/ pollution degree III/2 | 8 kV |
| Rated impulse voltage for surge voltage class/ contamination degree III/3 | 8 kV | Short-time withstand current resistance | 3 x 1s mit 1000 A |
| Clearance, min. | 15.1 mm | Creepage distance, min. | 15.1 mm |

### Rated data acc. to CSA

| | | | |
|---|---|---|---|
| Rated voltage (Use group B / CSA) | 600 V | Rated voltage (Use group C / CSA) | 600 V |
| Rated voltage (Use group D / CSA) | 600 V | Rated current (Use group B / CSA) | 60 A |
| Rated current (Use group C / CSA) | 60 A | Rated current (Use group D / CSA) | 5 A |
| Wire cross-section, AWG, min. | AWG 22 | Wire cross-section, AWG, max. | AWG 4 |

### Rated data acc. to UL 1059

| | | | |
|---|---|---|---|
| Institute (cURus) | c UL us | Certificate No. (cURus) | E60693 |
| Rated voltage (Use group B / UL 1059) | 600 V | Rated voltage (Use group C / UL 1059) | 600 V |
| Rated voltage (Use group D / UL 1059) | 600 V | Rated current (Use group B / UL 1059) | 60 A |
| Rated current (Use group C / UL 1059) | 60 A | Rated current (Use group D / UL 1059) | 5 A |
| Wire cross-section, AWG, min. | AWG 22 | Wire cross-section, AWG, max. | AWG 4 |
| Reference to approval values | Specifications are maximum values, details - see approval certificate. | | |

### Packing

| | | | |
|---|---|---|---|
| Packaging | Box | VPE length | 352 mm |
| VPE width | 138 mm | VPE height | 60 mm |

### Classifications

| | | | |
|---|---|---|---|
| ETIM 6.0 | EC002638 | ETIM 7.0 | EC002638 |
| ETIM 8.0 | EC002638 | ECLASS 9.0 | 27-44-03-09 |
| ECLASS 9.1 | 27-44-03-09 | ECLASS 10.0 | 27-44-03-09 |
| ECLASS 11.0 | 27-46-02-02 | ECLASS 12.0 | 27-46-02-02 |

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### Important note

| | |
|---|---|
| IPC conformity | Conformity: The products are developed, manufactured and delivered according international recognized standards and norms and comply with the assured properties in the data sheet resp. fulfill decorative properties in accordance with IPC-A-610 "Class 2". Further claims on the products can be evaluated on request. |
| Notes | • Additional variants on request<br>• Rated current related to rated cross-section & min. No. of poles.<br>• Wire end ferrule with plastic collar to DIN 46228/4<br>• Wire end ferrule without plastic collar to DIN 46228/1<br>• P on drawing = pitch<br>• Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.<br>• For all applications with flange we recommend to fix the pin header with the help of the soldering flange or a self-tapping screw on the board.<br>• Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months |

### Approvals

| | |
|---|---|
| Approvals |  |
| ROHS | Conform |
| UL File Number Search | UL Website |
| Certificate No. (cURus) | E60693 |

### Downloads

| | |
|---|---|
| Product Change Notification | 20220201 Visual change OMNIMATE® Power PCB terminal blocks and connectors<br>20220201 Visuelle Änderung OMNIMATE® Power Leiterplattenklemmen und -steckverbinder<br>20220208 Visual change Temporarily different color for connectors and accessories<br>20220208 Visuelle Änderung Vorübergehend anderer Farbton für Steckverbinder und Zubehör |
| Catalogues | Catalogues in PDF-format |
| Brochures | FL DRIVES EN<br>FL DRIVES DE |

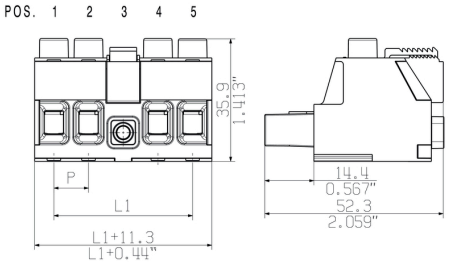
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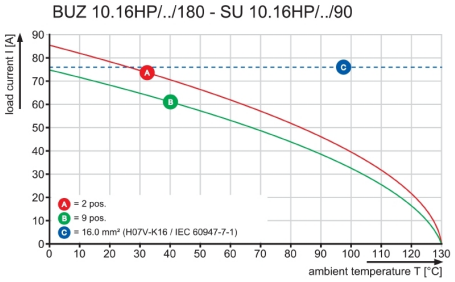
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## Drawings

### Dimensional drawing




### Graph




### Graph

