Data sheet

# MPS 16/02 S AG B B

**Weidmüller Interface GmbH & Co. KG**
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

## Product image





### General ordering data

| | |
|---|---|
| Version | PCB plug-in connector, female plug, Pitch in mm (P): 10.16 mm, Number of poles: 2, 180°, Box |
| Order No. | 3180350000 |
| Type | MPS 16/02 S AG B B |
| Qty. | |
| Product data | IEC: 1000 V / 76 A / 4 - 25 mm²<br>UL: 600 V / 60 A |
| Packaging | Box |

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# Technical data

### Dimensions and weights

| | | | |
|---|---|---|---|
| Depth | 52.7 mm | Depth (inches) | 2.0748 inch |
| Height | 33.25 mm | Height (inches) | 1.3091 inch |
| Width | 23.82 mm | Width (inches) | 0.9378 inch |

### Temperatures

| | |
|---|---|
| Ambient temperature | -50 °C...125 °C |

### Material data

| | | | |
|---|---|---|---|
| Insulating material | PA 9T | Colour | black |
| Colour of operational elements | orange | Colour chart (similar) | RAL 9011 |
| Comparative Tracking Index (CTI) | ≤ 600, ≥ 600 | Moisture Level (MSL) | 1 |
| UL 94 flammability rating | V-0 | Contact material | Cu-alloy |
| Contact surface | Ag (silver) | Storage temperature, min. | -40 °C |
| Storage temperature, max. | 70 °C | Operating temperature, min. | -50 °C |
| Operating temperature, max. | 125 °C | | |

### Conductors suitable for connection

| | | | |
|---|---|---|---|
| Solid, min. H05(07) V-U | 4 mm² | Solid, max. H05(07) V-U | 16 mm² |
| Flexible, min. H05(07) V-K | 4 mm² | Flexible, max. H05(07) V-K | 25 mm² |
| w. plastic collar ferrule, DIN 46228 pt 4, min. | 16 mm² | w. plastic collar ferrule, DIN 46228 pt 4, max. | 4 mm² |
| w. wire end ferrule, DIN 46228 pt 1, min. | 16 mm² | w. wire end ferrule, DIN 46228 pt 1, max. | 4 mm² |

### Rated data acc. to IEC

| | | | |
|---|---|---|---|
| Rated current at min. number of poles (Tu = 20 °C) | 76 A | Rated current, max. number of poles (Tu=20°C) | 71 A |
| Rated current, min. number of poles (Tu=40°C) | 70 A | Rated current at max. number of poles (Tu = 40 °C) | 62 A |
| Rated voltage for surge voltage class (pollution degree II/2) | 1000 V | Rated voltage for surge voltage class (pollution degree III/2) | 1000 V |
| Rated voltage for surge voltage class (pollution degree III/3) | 1000 V | Rated impulse voltage for surge voltage class (pollution degree II/2) | 8 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 with 800A | | |

### Rated data acc. to UL 1059

| | | | |
|---|---|---|---|
| Rated voltage for surge voltage class (Use group F / UL 1059 / pollution degree III/2) | 1000 V | Rated voltage for surge voltage class (Use group F / UL 1059 / pollution degree III/3) | 1000 V |
| Rated voltage for surge voltage class (Use group F / UL 1059 / pollution degree II/2) | 1000 V | Rated voltage (Use group B / UL 1059) | 600 V |
| Rated voltage (Use group C / 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 F / UL 1059) | 60 A |

### Important note

| | |
|---|---|
| Notes | • Rated current related to rated cross-section & min. No. of poles.<br>• P on drawing = pitch |

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## Technical data

- 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.
- In accordance with IEC 61984, OMNIMATE-connectors are connectors without breaking capacity (COC). During designated use, connectors are not allowed to be engaged or disengaged when live or under load
- Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months

### Classifications

| | | | |
|---|---|---|---|
| ETIM 8.0 | EC002638 | ETIM 9.0 | EC002638 |
| ETIM 10.0 | EC002638 | ECLASS 14.0 | 27-46-02-02 |
| ECLASS 15.0 | 27-46-02-02 | | |

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## Drawings

### Product image

