

**MPS 6/06 S TN B B****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

**Product image****SNAP IN** **General ordering data**

|              |                                                                                             |
|--------------|---------------------------------------------------------------------------------------------|
| Version      | PCB plug-in connector, female plug, Pitch in mm (P): 6.35 mm, Number of poles: 6, 180°, Box |
| Order No.    | <a href="#">8000168135</a>                                                                  |
| Type         | MPS 6/06 S TN B B                                                                           |
| GTIN (EAN)   | 4099987793117                                                                               |
| Qty.         | 48 items                                                                                    |
| Product data | IEC: 1000 V / 40.3 A / 0.75 - 6 mm <sup>2</sup><br>UL: 600 V / 30 A / AWG 20 - AWG 10       |
| Packaging    | Box                                                                                         |

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## Technical data

## Dimensions and weights

|            |         |                 |             |
|------------|---------|-----------------|-------------|
| Depth      | 43 mm   | Depth (inches)  | 1.6929 inch |
| Height     | 20.5 mm | Height (inches) | 0.8071 inch |
| Width      | 40.9 mm | Width (inches)  | 1.6102 inch |
| Net weight | 30.99 g |                 |             |

## Material data

|                                |          |                                  |          |
|--------------------------------|----------|----------------------------------|----------|
| Insulating material            | PBT GF   | Colour                           | black    |
| Colour of operational elements | orange   | Colour chart (similar)           | RAL 9011 |
| Insulating material group      | I        | Comparative Tracking Index (CTI) | ≥ 600    |
| Moisture Level (MSL)           |          | UL 94 flammability rating        | V-0      |
| Contact material               | Cu-alloy | Contact surface                  | tinned   |
| Storage temperature, min.      | -25 °C   | Storage temperature, max.        | 55 °C    |
| Operating temperature, min.    | -50 °C   | Operating temperature, max.      | 125 °C   |

## Conductors suitable for connection

|                                                                     |                      |                                                                   |                   |
|---------------------------------------------------------------------|----------------------|-------------------------------------------------------------------|-------------------|
| Clamping range, min.                                                | 0.5 mm <sup>2</sup>  | Clamping range, max.                                              | 4 mm <sup>2</sup> |
| Solid, min. H05(07) V-U                                             | 0.75 mm <sup>2</sup> | Solid, max. H05(07) V-U                                           | 4 mm <sup>2</sup> |
| Flexible, min. H05(07) V-K                                          | 0.75 mm <sup>2</sup> | Flexible, max. H05(07) V-K                                        | 6 mm <sup>2</sup> |
| w. plastic collar ferrule, DIN 46228 pt 4, 0.5 mm <sup>2</sup> min. |                      | w. plastic collar ferrule, DIN 46228 pt 4, 4 mm <sup>2</sup> max. |                   |
| w. wire end ferrule, DIN 46228 pt 1, 0.75 mm <sup>2</sup> min.      |                      | w. wire end ferrule, DIN 46228 pt 1, 4 mm <sup>2</sup> max.       |                   |

## Rated data acc. to IEC

|                                                                           |                        |                                                                       |        |
|---------------------------------------------------------------------------|------------------------|-----------------------------------------------------------------------|--------|
| tested acc. to standard                                                   | IEC 60664-1, IEC 61984 | Rated current, min. number of poles (Tu=20°C)                         | 40.3 A |
| Rated current, max. number of poles (Tu=20°C)                             | 40.4 A                 | Rated current, min. number of poles (Tu=40°C)                         | 36.3 A |
| Rated current, max. number of poles (Tu=40°C)                             | 36.3 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        | 800 V  |
| Rated impulse voltage for surge voltage class/ pollution degree II/2      | 8 V                    | 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                   |                                                                       |        |

## Rated data acc. to UL 1059

|                                       |        |                                       |        |
|---------------------------------------|--------|---------------------------------------|--------|
| 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 voltage (Use group F / UL 1059) | 1000 V |
| Rated current (Use group B / UL 1059) | 30 A   | Rated current (Use group C / UL 1059) | 30 A   |
| Rated current (Use group D / UL 1059) | 5 A    | Wire cross-section, AWG, min.         | AWG 20 |
| Wire cross-section, AWG, max.         | AWG 10 |                                       |        |

## Important note

|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Notes | <ul style="list-style-type: none"> <li>Rated current related to rated cross-section &amp; min. No. of poles.</li> <li>P on drawing = pitch</li> <li>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.</li> <li>Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months</li> </ul> |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Technical data

### 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 |             |             |

## Drawings

### Product image

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### Dimensional drawing

