

**OMNIMATE basic – Series CPS  
CPS 3.81/04/90F SN GN BX**

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 26  
D-32758 Detmold  
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Fon: +49 5231 14-0  
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**General ordering data**

|              |   |
|--------------|---|
| Type         | CPS 3.81/04/90F SN GN BX  |
| Order No.    | <a href="#">2642490000</a>  |
| GTIN (EAN)   | 4050118644487   |
| Qty.         | 180 pc(s).  |
| Product data | IEC: 320 V / 8 A / 0.2 - 1.5 mm <sup>2</sup><br>UL: 300 V / 8 A / AWG 30 - AWG 16 |
| Packaging    | Box   |

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**Technical data****Dimensions and weights**

|            |        |
|------------|--------|
| Net weight | 3.96 g |
|------------|--------|

**System specifications**

| Product family            | OMNIMATE basic – Series CPS | Type of connection       | Field connection |
|---------------------------|-----------------------------|--------------------------|------------------|
| Pitch in mm (P)           | 3.81 mm                     | Pitch in inches (P)      | 0.15 inch        |
| Number of poles           | 4                           | L1 in mm                 | 11.43 mm         |
| L1 in inches              | 0.45 inch                   | Number of rows           | 1                |
| Pin series quantity       | 1                           | Plugging cycles          | 150              |
| Plugging force/pole, max. | 1 N                         | Pulling force/pole, max. | 1 N              |

**System Parameters**

| Product family           | OMNIMATE basic – Series CPS | Type of connection         | Field connection |
|--------------------------|-----------------------------|----------------------------|------------------|
| Wire connection method   | Clamping yoke connection    | Pitch in mm (P)            | 3.81 mm          |
| Pitch in inches (P)      | 0.15 inch                   | Conductor outlet direction | 90°              |
| Number of poles          | 4                           | L1 in mm                   | 11.43 mm         |
| L1 in inches             | 0.45 inch                   | Number of rows             | 1                |
| Pin series quantity      | 1                           | Stripping length           | 6.5 mm           |
| Tightening torque, min.  | 0.22 Nm                     | Tightening torque, max.    | 0.25 Nm          |
| Clamping screw           | M 2                         | Screwdriver blade          | 0.4 x 2.5        |
| Plugging cycles          | 150                         | Plugging force/pole, max.  | 1 N              |
| Pulling force/pole, max. | 1 N                         |                            |                  |

**Material data**

|                             |              |                             |              |
|-----------------------------|--------------|-----------------------------|--------------|
| Insulating material         | PA           | Colour                      | Pale green   |
| Colour chart (similar)      | RAL 6021     | Insulating material group   | I            |
| Insulation strength         | 500 MΩ       | UL 94 flammability rating   | V-0          |
| Contact base material       | Copper alloy | Contact material            | Copper alloy |
| Contact surface             | tinned       | Tinning type                | matt         |
| Operating temperature, min. | -40 °C       | Operating temperature, max. | 105 °C       |

**Conductors suitable for connection**

|   |                      |   |                      |
|---|----------------------|---|----------------------|
| Clamping range, min.                            | 0.2 mm <sup>2</sup>  | Clamping range, max.                            | 1.5 mm <sup>2</sup>  |
| Wire connection cross section AWG, min.         | AWG 30               | Wire connection cross section AWG, max.         | AWG 16               |
| Solid, min. H05(07) V-U                         | 0.2 mm <sup>2</sup>  | Solid, max. H05(07) V-U                         | 1.5 mm <sup>2</sup>  |
| Stranded, min. H07V-R                           | 0.05 mm <sup>2</sup> | Stranded, max. H07V-R                           | 1.5 mm <sup>2</sup>  |
| Flexible, min. H05(07) V-K                      | 0.2 mm <sup>2</sup>  | Flexible, max. H05(07) V-K                      | 1 mm <sup>2</sup>    |
| w. plastic collar ferrule, DIN 46228 pt 4, min. | 0.2 mm <sup>2</sup>  | w. plastic collar ferrule, DIN 46228 pt 4, max. | 0.75 mm <sup>2</sup> |
| w. wire end ferrule, DIN 46228 pt 1, min.       | 0.2 mm <sup>2</sup>  | w. wire end ferrule, DIN 46228 pt 1, max.       | 0.75 mm <sup>2</sup> |
| Max. clamping range                             | 1.5 mm <sup>2</sup>  |   |                      |

# Data sheet

## OMNIMATE basic – Series CPS CPS 3.81/04/90F SN GN BX

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# Technical data


### Rated data acc. to IEC

|   |        |   |        |
|---|--------|---|--------|
| Rated current, min. number of poles (Tu=20°C)                             | 8 A    | Rated voltage for surge voltage class / pollution degree II/2         | 320 V  |
| Rated voltage for surge voltage class / pollution degree III/2            | 160 V  | Rated voltage for surge voltage class / pollution degree III/3        | 160 V  |
| Rated impulse voltage for surge voltage class/ pollution degree II/2      | 2.5 kV | Rated impulse voltage for surge voltage class/ pollution degree III/2 | 2.5 kV |
| Rated impulse voltage for surge voltage class/ contamination degree III/3 | 2.5 kV |   |        |

### Rated data acc. to CSA

|                                   |        |                                   |        |
|-----------------------------------|--------|-----------------------------------|--------|
| Rated voltage (Use group B / CSA) | 300 V  | Rated current (Use group B / CSA) | 8 A    |
| Wire cross-section, AWG, min.     | AWG 30 | Wire cross-section, AWG, max.     | AWG 16 |

### Rated data acc. to UL 1059

|                                       |  |                                       |        |
|---------------------------------------|--|---------------------------------------|--------|
| Institute (cURus)                     |  | Certificate No. (cURus)               | E60693 |
| Rated voltage (Use group B / UL 1059) | 300 V  | Rated current (Use group B / UL 1059) | 8 A    |
| Wire cross-section, AWG, min.         | AWG 30   | Wire cross-section, AWG, max.         | AWG 16 |
| Reference to approval values          | Specifications are maximum values, details - see approval certificate.             |                                       |        |

### Packing

|           |        |            |        |
|-----------|--------|------------|--------|
| Packaging | Box    | VPE length | 175 mm |
| VPE width | 135 mm | VPE height | 50 mm  |

### Classifications

|             |             |            |             |
|-------------|-------------|------------|-------------|
| ETIM 6.0    | EC002638    | ETIM 7.0   | EC002638    |
| eClass 9.0  | 27-44-03-09 | eClass 9.1 | 27-44-03-09 |
| eClass 10.0 | 27-44-03-09 |            |             |

### Notes

- Notes
- Only compatible with OMNIMATE basic products
  - P on drawing = pitch
  - Rated current related to rated cross-section & min. No. of poles.
  - 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.

### Approvals

|           |   |
|-----------|---|
| Approvals |  |
| ROHS      | Conform   |

Creation date November 4, 2019 3:00:38 PM CET

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**Drawings**

