

**OMNIMATE basic – Series CPS  
CPS 3.81/03/90F SN GN BX**

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

|              |   |
|--------------|---|
| Type         | CPS 3.81/03/90F SN GN BX  |
| Order No.    | <a href="#">2642480000</a>  |
| GTIN (EAN)   | 4050118644494   |
| 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 | 3.17 g |
|------------|--------|

**System specifications**

| Product family              |          | Type of connection       |           |
|-----------------------------|----------|--------------------------|-----------|
| OMNIMATE basic – Series CPS |          | Field connection         |           |
| Pitch in mm (P)             | 3.81 mm  | Pitch in inches (P)      | 0.15 inch |
| Number of poles             | 3        | L1 in mm                 | 7.62 mm   |
| L1 in inches                | 0.3 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              |                          | Type of connection         |           |
|-----------------------------|--------------------------|----------------------------|-----------|
| OMNIMATE basic – Series CPS |                          | 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             | 3                        | L1 in mm                   | 7.62 mm   |
| L1 in inches                | 0.3 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>  |   |                      |

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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 | <ul style="list-style-type: none"> <li>• Only compatible with OMNIMATE basic products</li> <li>• P on drawing = pitch</li> <li>• Rated current related to rated cross-section &amp; min. No. of poles.</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> </ul> |
|-------|--|

**Approvals**

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

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**Drawings**

