

**CPS 5.00/16/180F SN GN BX****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)**General ordering data**

|              |                                                                                     |
|--------------|-------------------------------------------------------------------------------------|
|              |                                                                                     |
| Order No.    | <a href="#">2644860000</a>                                                          |
| Type         | CPS 5.00/16/180F SN GN BX                                                           |
| GTIN (EAN)   | 4050118642117                                                                       |
| Qty.         | 36 pc(s).                                                                           |
| Product data | IEC: 630 V / 15 A / 0.2 - 2.5 mm <sup>2</sup><br>UL: 300 V / 15 A / AWG 30 - AWG 12 |
| Packaging    | Box                                                                                 |

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## Technical data

## Dimensions and weights

|            |        |
|------------|--------|
| Net weight | 28.8 g |
|------------|--------|

## System Parameters

|                           |                                     |                          |                  |
|---------------------------|-------------------------------------|--------------------------|------------------|
| Product family            | OMNIMATE Signal - series BL/SL 5.08 | Type of connection       | Field connection |
| Wire connection method    | Clamping yoke connection            | Pitch in mm (P)          | 5 mm             |
| Pitch in inches (P)       | 0.197 "                             | Number of poles          | 16               |
| L1 in mm                  | 75 mm                               | L1 in inches             | 2.955 "          |
| Number of rows            | 1                                   | Pin series quantity      | 1                |
| Stripping length          | 7 mm                                | Tightening torque, min.  | 0.5 Nm           |
| Tightening torque, max.   | 0.55 Nm                             | Clamping screw           | M 3              |
| Screwdriver blade         | 0.6 x 3.5                           | Plugging cycles          | 25               |
| Plugging force/pole, max. | 12 N                                | Pulling force/pole, max. | 1.2 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         |
| Storage temperature, min.   | -40 °C       | Storage temperature, max.   | 70 °C        |
| 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.                            | 4 mm <sup>2</sup>   |
| Wire connection cross section AWG, min.         | AWG 30               | Wire connection cross section AWG, max.         | AWG 12              |
| Solid, min. H05(07) V-U                         | 0.2 mm <sup>2</sup>  | Solid, max. H05(07) V-U                         | 2.5 mm <sup>2</sup> |
| Stranded, min. H07V-R                           | 0.05 mm <sup>2</sup> | Stranded, max. H07V-R                           | 2.5 mm <sup>2</sup> |
| Flexible, min. H05(07) V-K                      | 0.2 mm <sup>2</sup>  | Flexible, max. H05(07) V-K                      | 2.5 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. | 2.5 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.       | 2.5 mm <sup>2</sup> |

## Rated data acc. to IEC

|                                                                           |       |                                                                       |       |
|---------------------------------------------------------------------------|-------|-----------------------------------------------------------------------|-------|
| Rated current, min. number of poles (Tu=20°C)                             | 15 A  | Rated voltage for surge voltage class / pollution degree II/2         | 630 V |
| Rated voltage for surge voltage class / pollution degree III/2            | 320 V | Rated voltage for surge voltage class / pollution degree III/3        | 250 V |
| Rated impulse voltage for surge voltage class/ pollution degree II/2      | 4 kV  | Rated impulse voltage for surge voltage class/ pollution degree III/2 | 4 kV  |
| Rated impulse voltage for surge voltage class/ contamination degree III/3 | 4 kV  |                                                                       |       |

## Rated data acc. to CSA

|                                   |        |                                   |        |
|-----------------------------------|--------|-----------------------------------|--------|
| Rated voltage (Use group B / CSA) | 300 V  | Rated voltage (Use group D / CSA) | 300 V  |
| Rated current (Use group B / CSA) | 15 A   | Rated current (Use group D / CSA) | 10 A   |
| Wire cross-section, AWG, min.     | AWG 30 | Wire cross-section, AWG, max.     | AWG 12 |

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## Technical data

## Rated data acc. to UL 1059

Institute (cURus)



Certificate No. (cURus)

E60693

Rated voltage (Use group B / UL 1059) 300 V

Rated voltage (Use group D / UL 1059) 300 V

Rated current (Use group B / UL 1059) 15 A

Rated current (Use group D / UL 1059) 10 A

Wire cross-section, AWG, min. AWG 30

Wire cross-section, AWG, max. AWG 12

Reference to approval values  
Specifications are maximum values, details - see approval certificate.

## Packing

|           |      |
|-----------|------|
| Packaging | Box  |
| VPE width | 0 mm |

|            |      |
|------------|------|
| VPE length | 0 mm |
| VPE height | 0 mm |

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC002638    | ETIM 7.0    | EC002638    |
| ETIM 8.0    | EC002638    | ETIM 9.0    | EC002638    |
| ETIM 10.0   | 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 |
| ECLASS 13.0 | 27-46-02-02 | ECLASS 14.0 | 27-46-02-02 |
| ECLASS 15.0 | 27-46-02-02 |             |             |

## Environmental Product Compliance

|                                      |                                      |
|--------------------------------------|--------------------------------------|
| RoHS Compliance Status               | Compliant with exemption             |
| RoHS Exemption (if applicable/known) | 6c                                   |
| REACH SVHC                           | Lead 7439-92-1                       |
| SCIP                                 | d5655e4a-7bb0-47c8-bd67-25d5021f9ded |

## Important note

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.
- Limited rated data according to IEC when using 2.5mm<sup>2</sup> in combination with ferrules without plastic collars: 400V/2.5kV (II/2) | 240V/2.5kV (III/2) | 160V/2.5kV (III/3)
- 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

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Approvals



|                         |                                                                                                                                                                             |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approvals MAMID         | <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319230/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319230/-T1z1mm-S800/</a> |
| ROHS                    | Conform                                                                                                                                                                     |
| UL File Number Search   | UL Website                                                                                                                                                                  |
| Certificate No. (cURus) | E60693                                                                                                                                                                      |

**Downloads**

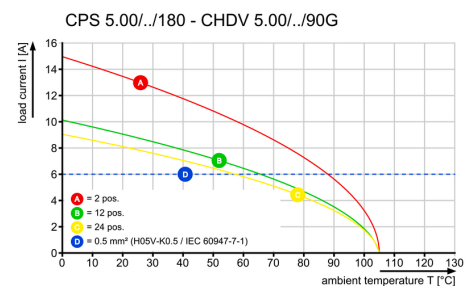
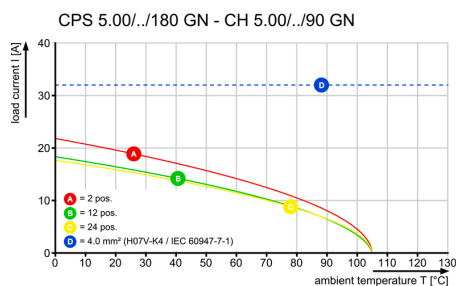
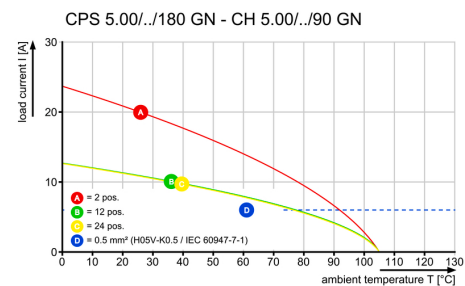
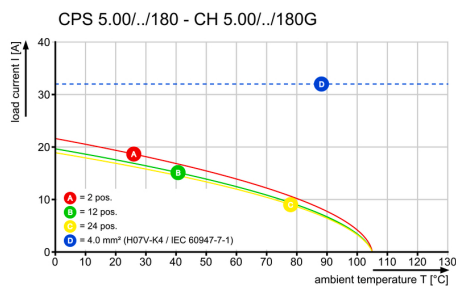
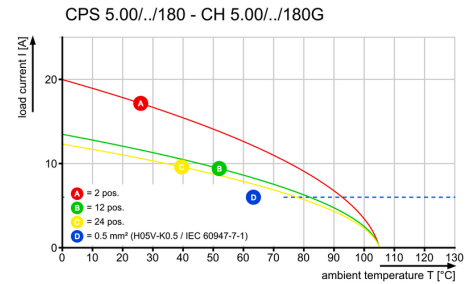
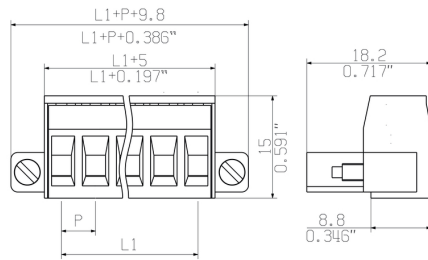
|            |                                          |
|------------|------------------------------------------|
| Catalogues | <a href="#">Catalogues in PDF-format</a> |
|------------|------------------------------------------|

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## Drawings



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## Drawings

