

## CPS 5.00/24/180F 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.    | 2644940000  |
| Type         | <a href="#">CPS 5.00/24/180F SN GN BX</a>   |
| GTIN (EAN)   | 4050118642032   |
| Qty.         | 24 items  |
| Product data | IEC: 630 V / 22 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

## Approvals

Approvals



|                         |                            |
|-------------------------|----------------------------|
| ROHS                    | Conform                    |
| UL File Number Search   | <a href="#">UL Website</a> |
| Certificate No. (cURus) | E60693                     |

## Dimensions and weights

|            |        |
|------------|--------|
| Net weight | 42.8 g |
|------------|--------|

## 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 |

## System Parameters

| Product family            | OMNIMATE Signal - series<br>BL/SL 5.08 | Type of connection       | Field connection |
|---------------------------|--|--------------------------|------------------|
| Wire connection method    | Clamping yoke connection               | Pitch in mm (P)          | 5.00 mm          |
| Pitch in inches (P)       | 0.197 "                                | Number of poles          | 24               |
| L1 in mm                  | 115.00 mm                              | L1 in inches             | 4.531 "          |
| 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. | 9 N                                    | Pulling force/pole, max. | 6 N              |

## Material data

|                             |              |                             |              |
|-----------------------------|--------------|-----------------------------|--------------|
| Insulating material         | PA           | Colour                      | Pale green   |
| Colour chart (similar)      | RAL 6021     | Insulating material group   | I            |
| Insulation resistance       | 500 MΩ       | Moisture Level (MSL)        |              |
| 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> |

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### Rated data acc. to IEC

|   |       |   |       |
|---|-------|---|-------|
| Rated current, min. number of poles (Tu=20°C)                             | 22 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 |

### Rated data acc. to UL 1059

|                                       |  |                                       |        |
|---------------------------------------|--|---------------------------------------|--------|
| Institute (cURus)                     | 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 length | 0.00 mm |
| VPE width | 0.00 mm | VPE height | 0.00 mm |

### 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

### 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

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CPS 5.00/./180 - CH 5.00/./180G



CPS 5.00/./180 - CH 5.00/./180G



CPS 5.00/./180 GN - CH 5.00/./90 GN



CPS 5.00/./180 GN - CH 5.00/./90 GN



CPS 5.00/./180 - CHDV 5.00/./90G



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CPS 5.00/./180 - CHDV 5.00/./90

