

CPS 5.00/20/90 SN GN BX

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com



General ordering data

| | |
|--------------|---|
| Order No. | 2643980000 |
| Type | CPS 5.00/20/90 SN GN BX |
| GTIN (EAN) | 4050118642995 |
| Qty. | 21 items |
| Product data | IEC: 630 V / 18 A / 0.2 - 4 mm ² UL: 300 V / 18 A / AWG 26 - AWG 14 |
| Packaging | Box |

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Technical data

Approvals

Approvals



| | |
|-------------------------|----------------------------|
| ROHS | Conform |
| UL File Number Search | UL Website |
| Certificate No. (cURus) | E60693 |

Dimensions and weights

| | |
|------------|------|
| Net weight | 41 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 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 | 20 |
| L1 in mm | 95.00 mm | L1 in inches | 3.743 " |
| 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 ² | Clamping range, max. | 4 mm ² |
| Wire connection cross section AWG, min. | AWG 26 | Wire connection cross section AWG, max. | AWG 14 |
| Solid, min. H05(07) V-U | 0.2 mm ² | Solid, max. H05(07) V-U | 2.5 mm ² |
| Stranded, min. H07V-R | 0.12 mm ² | Stranded, max. H07V-R | 4 mm ² |
| Flexible, min. H05(07) V-K | 0.2 mm ² | Flexible, max. H05(07) V-K | 2.5 mm ² |
| w. plastic collar ferrule, DIN 46228 pt 4, min. | 0.2 mm ² | w. plastic collar ferrule, DIN 46228 pt 4, max. | 2.5 mm ² |
| w. wire end ferrule, DIN 46228 pt 1, min. | 0.2 mm ² | w. wire end ferrule, DIN 46228 pt 1, max. | 2.5 mm ² |

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Rated data acc. to IEC

| | | | |
|---|-------|---|-------|
| Rated current, min. number of poles (Tu=20°C) | 18 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) | 18 A | Rated current (Use group D / CSA) | 10 A |
| Wire cross-section, AWG, min. | AWG 26 | Wire cross-section, AWG, max. | AWG 14 |

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) | 18 A | Rated current (Use group D / UL 1059) | 10 A |
| Wire cross-section, AWG, min. | AWG 26 | Wire cross-section, AWG, max. | AWG 14 |
| 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.
 - 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/./90 - CH 5.00/./180



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



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



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

