

CH 3.81/09/180G 3.5SN GN BX

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

www.weidmueller.com

**General ordering data**

| | |
|--------------|---|
| Order No. | 2643680000 |
| Type | CH 3.81/09/180G 3.5SN GN BX |
| GTIN (EAN) | 4050118643299 |
| Qty. | 312 items |
| Product data | IEC: 320 V / 8 A UL: 300 V / 8 A |
| 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 | 2.52 g |
|------------|--------|

Environmental Product Compliance

| | |
|------------------------|-----------------------------|
| RoHS Compliance Status | Compliant without exemption |
| REACH SVHC | No SVHC above 0.1 wt% |

System specifications

| Product family | OMNIMATE Signal - series BL/SL 5.08 | Type of connection | Board connection |
|---------------------------------|--|--------------------------------|------------------|
| Mounting onto the PCB | THT solder connection | Pitch in mm (P) | 3.81 mm |
| Pitch in inches (P) | 0.150 " | Outgoing elbow | 180° |
| Number of poles | 9 | Number of solder pins per pole | 1 |
| Solder pin length (l) | 3.5 mm | Solder pin dimensions | 0.8 x 0.8 mm |
| Solder eyelet hole diameter (D) | 1.3 mm | L1 in mm | 30.48 mm |
| L1 in inches | 1.200 " | Number of rows | 1 |
| Pin series quantity | 1 | | |

Material data

| | | | |
|-----------------------------|----------|-----------------------------|------------|
| Insulating material | PA GF | Colour | Pale green |
| Colour chart (similar) | RAL 6021 | Insulating material group | I |
| Moisture Level (MSL) | | UL 94 flammability rating | V-0 |
| Contact base material | Cu-alloy | Contact material | Cu-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 |

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 |
|-----------------------------------|-------|-----------------------------------|-----|

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Technical data

Rated data acc. to UL 1059

| | | | |
|---------------------------------------|--|---------------------------------------|--------|
| Institute (cURus) | CURUS | Certificate No. (cURus) | E60693 |
| Rated voltage (Use group B / UL 1059) | 300 V | Rated current (Use group B / UL 1059) | 8 A |
| Reference to approval values | Specifications are maximum values, details - see approval certificate. | | |

Packing

| | | | |
|-----------|----------|------------|-----------|
| Packaging | Box | VPE length | 155.00 mm |
| VPE width | 64.00 mm | VPE height | 38.00 mm |

Important note

| | |
|-------|---|
| Notes | <ul style="list-style-type: none"> • 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 | EC002637 | ETIM 9.0 | EC002637 |
| ETIM 10.0 | EC002637 | ECLASS 14.0 | 27-46-02-01 |
| ECLASS 15.0 | 27-46-02-01 | | |

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Drawings

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