

**OMNIMATE basic – Series CH
CH 5.08/06/180F 3.9SN GN BX**

Weidmüller Interface GmbH & Co. KG
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Germany
Fon: +49 5231 14-0
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www.weidmueller.com

**General ordering data**

| | |
|--------------|---------------------------------------|
| Type | CH 5.08/06/180F 3.9SN GN BX |
| Order No. | 2648670000 |
| GTIN (EAN) | 4050118638301 |
| Qty. | 180 pc(s). |
| Product data | IEC: 630 V / 15 A UL: 300 V / 15 A |
| Packaging | Box |

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Technical data**Dimensions and weights**

| | |
|------------|--------|
| Net weight | 2.96 g |
|------------|--------|

System specifications

| Product family | | Type of connection | |
|----------------------------|-----------------------|----------------------------------|------------------|
| OMNIMATE basic – Series CH | | | Board connection |
| Mounting onto the PCB | THT solder connection | Pitch in mm (P) | 5.08 mm |
| Pitch in inches (P) | 0.2 inch | Outgoing elbow | 180° |
| Number of poles | 6 | Number of solder pins per pole | 1 |
| Solder pin length (l) | 3.9 mm | Tolerance of solder pin position | ± 0.1 mm |
| Solder pin dimensions | 1.0 x 1.0 mm | Solder eyelet hole diameter (D) | 1.6 mm |
| L1 in mm | 25.4 mm | L1 in inches | 1 inch |
| Number of rows | 1 | Pin series quantity | 1 |
| Plugging cycles | 150 | | |

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|----------------------------|---------|---------------------|------------------|
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Material data

| Insulating material | | Colour | |
|-----------------------------|--------------|-----------------------------|--------------|
| PA GF | | 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 |

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 |

Data sheet

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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

Reference to approval values

Specifications are maximum values, details - see approval certificate.

Packing

Packaging

Box

VPE length

170 mm

VPE width

135 mm

VPE height

50 mm

Classifications

ETIM 6.0

EC002637

ETIM 7.0

EC002637

eClass 9.0

27-44-04-02

eClass 9.1

27-44-04-02

eClass 10.0

27-44-04-02

Notes

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.

Approvals

Approvals

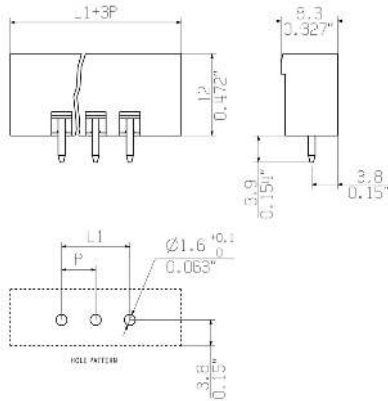


ROHS

Conform

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Drawings

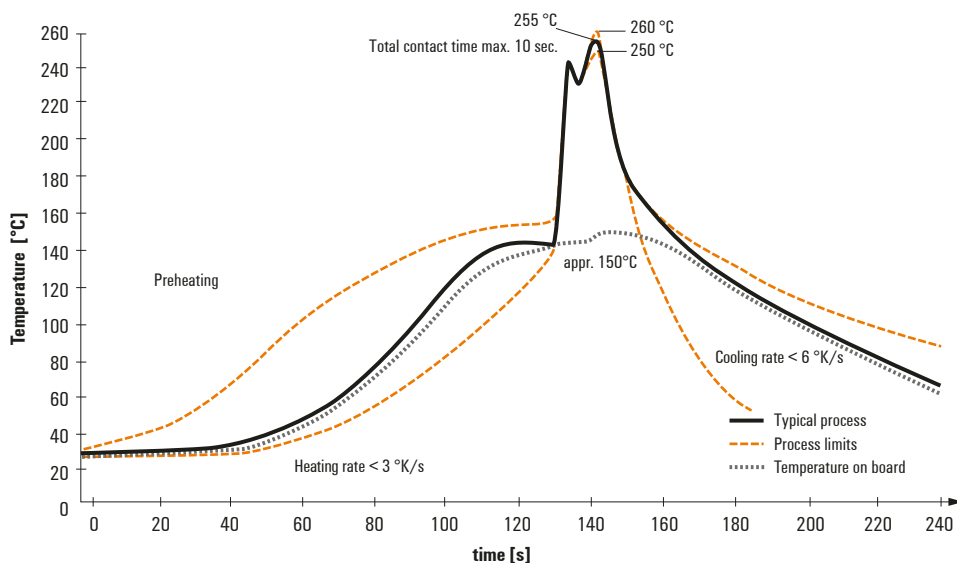
Recommended wave soldering profiles

Weidmüller Interface GmbH & Co. KG
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 Germany
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Single Wave:



Double Wave:



Wave soldering profiles

Wired connection elements should be processed in accordance with the DIN EN 61760-1 standard. We have included two recommendations for practical wave soldering profiles, with which Weidmüller PCB terminals and connectors are qualified.

When choosing a suitable profile for your application, the following factors also need to be considered:

- PCB thickness
- Proportion of Cu in the layers
- Single/double-sided assembly
- Product range
- Heating and cooling rates

The single and double wave profiles each indicate the recommended operating range, including the maximum soldering temperature of 260°C. In practice, the maximum soldering temperature is quite often well below the above maximum profile.