

**CH 5.08/20/180G 3.9SN 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="#">2649920000</a>            |
| Type         | CH 5.08/20/180G 3.9SN GN BX           |
| GTIN (EAN)   | 4050118637052                         |
| Qty.         | 65 pc(s).                             |
| Product data | IEC: 630 V / 15 A<br>UL: 300 V / 15 A |
| Packaging    | Box                                   |

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## Technical data

## Dimensions and weights

|            |       |
|------------|-------|
| Net weight | 7.8 g |
|------------|-------|

## System specifications

|                                 |                            |                                |                  |
|---------------------------------|----------------------------|--------------------------------|------------------|
| Product family                  | OMNIMATE basic – Series CH | Type of connection             | 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                 | 20                         | Number of solder pins per pole | 1                |
| Solder pin length (l)           | 3.9 mm                     | Solder pin dimensions          | 1.0 x 1.0 mm     |
| Solder eyelet hole diameter (D) | 1.6 mm                     | L1 in mm                       | 96.52 mm         |
| L1 in inches                    | 3.8 inch                   | 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            |
| 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       |                             |              |

## 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  |

## 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.              |                                       |        |

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**Technical data****Packing**

|           |     |            |   |
|-----------|-----|------------|---|
| Packaging | Box | VPE length | 0 |
| VPE width | 0   | VPE height | 0 |

**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 | ECLASS 11.0 | 27-46-02-01 |

**Important note**

|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Notes | <ul style="list-style-type: none"> <li>• Only compatible with OMNIMATE basic products</li> <li>• P on drawing = pitch</li> <li>• Rated current related to rated cross-section &amp; min. No. of poles.</li> <li>• 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.</li> <li>• Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months</li> </ul> |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**Approvals**

|                       |                                                                                     |
|-----------------------|-------------------------------------------------------------------------------------|
| Approvals             |  |
| ROHS                  | Conform                                                                             |
| UL File Number Search | E60693                                                                              |

**Downloads**

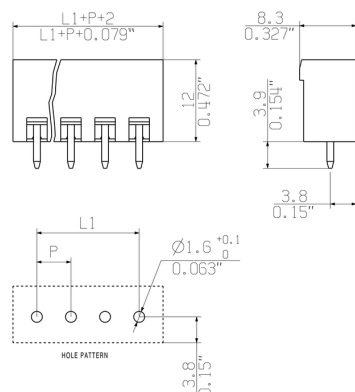
|                    |                                          |
|--------------------|------------------------------------------|
| Brochure/Catalogue | <a href="#">Catalogues in PDF-format</a> |
|--------------------|------------------------------------------|

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# Drawings



## Recommended wave soldering profiles

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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.

We reserve the right to make technical changes.