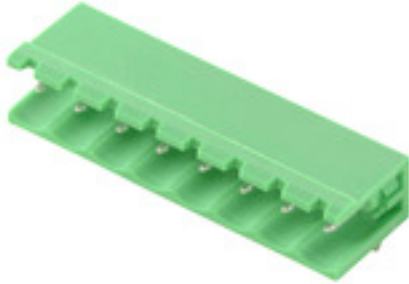


**OMNIMATE basic – Series CH  
CH 5.00/03/90 3.9SN GN BX**

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 26  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
Fax: +49 5231 14-292083  
www.weidmueller.com

**General ordering data**

Type	CH 5.00/03/90 3.9SN GN BX
Order No.	<a href="#">2645660000</a>
GTIN (EAN)	4050118641318
Qty.	300 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 1.08 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 mm
Pitch in inches (P)	0.197 inch	Outgoing elbow	90°
Number of poles	3	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	10 mm	L1 in inches	0.394 inch
Number of rows	1	Pin series quantity	1
Plugging cycles	150		

**System Parameters**

Product family		Type of connection	
OMNIMATE basic – Series CH			Board connection
Pitch in mm (P)	5 mm	Pitch in inches (P)	0.197 inch
Number of poles	3	L1 in mm	10 mm
L1 in inches	0.394 inch	Number of rows	1
Pin series quantity	1	Plugging cycles	150

**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**

**OMNIMATE basic – Series CH  
CH 5.00/03/90 3.9SN GN BX**

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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

130 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

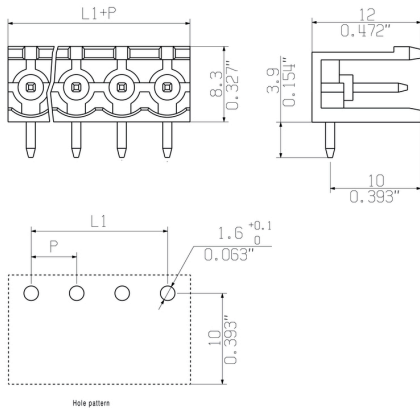
Conform

**Data sheet**

**OMNIMATE basic – Series CH  
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**Drawings**



## Recommended wave soldering profiles

**Weidmüller Interface GmbH & Co. KG**  
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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.