

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com





General ordering data

Order No.	<u>2643060000</u>
Туре	CH 3.81/04/90F 3.5SN GN BX
GTIN (EAN)	4050118643916
Qty.	480 pc(s).
Product data	IEC: 320 V / 8 A
	UL: 300 V / 8 A
Packaging	Box



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Technical data

-			
Dim	ensions	and	weights

Net weight	1 92 a

System specifications

Product family	OMNIMATE basic - Series	Type of connection	
	СН		Board connection
Mounting onto the PCB	THT solder connection	Pitch in mm (P)	3.81 mm
Pitch in inches (P)	0.15 inch	Outgoing elbow	90°
Number of poles	4	Number of solder pins per pole	1
Solder pin length (I)	3.5 mm	Solder pin dimensions	0.8 x 0.8 mm
Solder eyelet hole diameter (D)	1.3 mm	L1 in mm	11.43 mm
L1 in inches	0.45 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	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	s / 160 V	Rated voltage for surge voltage class / pollution degree III/3	, 160 V
Rated impulse voltage for surge volt class/ pollution degree II/2	age 2.5 kV	Rated impulse voltage for surge voltage class/ pollution degree III/2	je 2.5 kV
Rated impulse voltage for surge volt class/ contamination degree III/3	age 2.5 kV		

Rated data acc. to CSA

Rated voltage (Use group B / CSA)	300 V	Rated current (Use group B / CSA)	8 A

Rated data acc. to UL 1059

Institute (cURus) Certificate No. (cURus)

E60693 Rated current (Use group B / UL 1059) 8 A

Rated voltage (Use group B / UL 1059)

Reference to approval values Specifications are

maximum values, details see approval certificate.

Packing

Packaging	Box	VPE length	169 mm
VPE width	135 mm	VPE height	50 mm



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Classifications

ETIM 6.0	EC002637	ETIM 7.0	EC002637
ETIM 8.0	EC002637	ETIM 9.0	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
ECLASS 12.0	27-46-02-01	ECLASS 13.0	27460201

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
SCIP	2f5e7231-4ad1-4dcb-8e0f-b14defbd9d78

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
- \bullet Long term storage of the product with average temperature of 50 $^{\circ}\text{C}$ and maximum humidity 70%, 36 months

Approvals

Approvals	
	C 774 US

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

Downloads

Catalogues	Catalogues in PDF-format

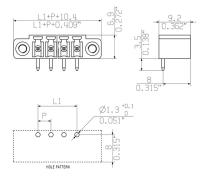


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Drawings





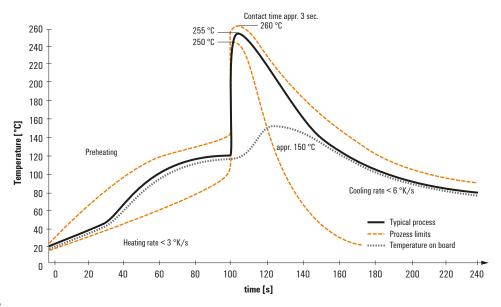
Recommended wave solderding profiles

Weidmüller Interface GmbH & Co. KG

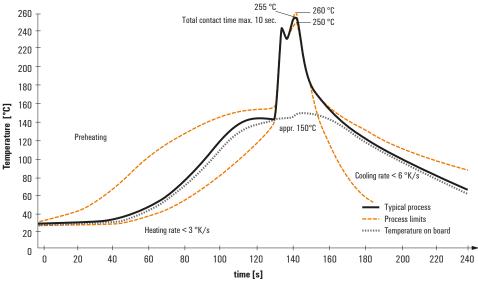
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Single Wave:



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.