

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Product image















Similar to illustration

Single-row, high-performance male header for side-by-side mounting without sacrificing any poles or with patented flange for fast fixing without tools. Maximum connection and operating reliability thanks to a mating profile that prevents incorrect connection, with unique coding diversity and additional fastening in the flange. 3.5 mm pin length is optimised for wave soldering, plug-in direction 270° to solder pins.

General ordering data

Version	PCB plug-in connector, male header, THT solder connection, 10.16 mm, Number of poles: 5, 270°, Solder pin length (I): 3.5 mm, black, Box
Order No.	<u>2597310000</u>
Туре	SU 10.16HP/05/270MF3 3.5AG BK BX
GTIN (EAN)	4050118609479
Qty.	30 pc(s).
Product data	IEC: 1000 V / 78.3 A UL: 300 V / 60 A
Packaging	Box

Creation date July 26, 2021 4:57:18 AM CEST



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Technical data

Net weight	21.41 g	

System specifications

Product family	OMNIMATE Power - series	Type of connection	
	BU/SU 10.16HP		Board connection
Mounting onto the PCB	THT solder connection	Pitch in mm (P)	10.16 mm
Pitch in inches (P)	0.4 °C	Outgoing elbow	270°
Number of poles	5	Solder pin length (I)	3.5 mm
Solder pin length tolerance	+0.1 / -0.3 mm	Solder pin dimensions	1.2 x 1.1 mm
Solder pin dimensions = d tolerance	+0.1 / -0.1 mm	L1 in mm	40.64 mm
L1 in inches	1.6 °C	Pin series quantity	2

Material data

Colour	black	Colour chart (similar)	RAL 9011
Storage temperature, min.	-40 mW per channel	Storage temperature, max.	70 mW per channel
Operating temperature, min.	-50 °C	Operating temperature, max.	120 °C
Temperature range, installation, min.	-25 mW per channel	Temperature range, installation, max.	120 °C

Rated data acc. to IEC

Rated current, min. number of pole	es	Rated current, max. number of poles	3
(Tu=20°C)	78.3 A	(Tu=20°C)	67.9 A
Rated current, min. number of pole	es	Rated current, max. number of poles	3
(Tu=40°C)	70.6 A	(Tu=40°C)	61.3 A
Rated voltage for surge voltage class /		Rated voltage for surge voltage class /	
pollution degree II/2	1,000 V	pollution degree III/2	1,000 V
Rated voltage for surge voltage class /		Rated impulse voltage for surge voltage	
pollution degree III/3	690 V	class/ pollution degree II/2	6 kV
Rated impulse voltage for surge vo	oltage	Rated impulse voltage for surge voltage	age
class/ pollution degree III/2	8 kV	class/ contamination degree III/3	8 kV
Clearance, min.	8.9 mm	Creepage distance, min.	10.5 mm

Rated data acc. to CSA

Rated voltage (Use group B / CSA)	300 V	Rated voltage (Use group C / CSA)	300 V
Rated voltage (Use group D / CSA)	600 V	Rated current (Use group B / CSA)	60 A
Rated current (Use group C / CSA)	60 A	Rated current (Use group D / CSA)	5 A

Rated data acc. to UL 1059

Rated voltage (Use group B / UL 1059)	300 V	Rated voltage (Use group C / UL 1059)	300 V
Rated voltage (Use group D / UL 1059)	600 V	Rated current (Use group B / UL 1059)	60 A
Rated current (Use group C / UL 1059)	60 A	Rated current (Use group D / UL 1059)	5 A
Clearance distance, min.	8.9 mm	Creepage distance, min.	10.5 mm

Packing

Packaging	Box	VPE length	338 mm
VPE width	130 mm	VPE height	44 mm



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Technical data

Classifications

ETIM 6.0	EC002637	ETIM 7.0	EC002637
ETIM 8.0	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	
IPC conformity	Conformity: The products are developed, manufactured and delivered according international recognized standards and norms and comply with the assured properties in the data sheet resp. fulfill decorative properties in accordance with IPC-A-610 "Class 2". Further claims on the products can be evaluated on request.
Notes	Additional colours on request
	Rated current related to rated cross-section & min. No. of poles.
	• P on drawing = pitch
	 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.
	 For all applications with flange we recommend to fix the pin header with the help of the soldering flange or a self-tapping screw on the board.

• Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

Downloads

Catalogues	Catalogues in PDF-format	



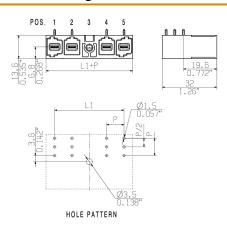
Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Drawings

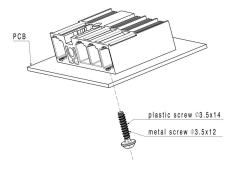
Dimensional drawing



Graph

6	M(S)F6	0	0	0	0	0	Х	0
6	M(S)F5	0	0	0	0	Х	0	0
6	M(S)F4	0	0	0	Х	0	0	0
6	M(S)F3	0	0	Х	0	0	0	0
6	M(S)F2	0	Х	0	0	0	0	0
5	M(S)F5	0	0	0	0	Х	0	
5	M(S)F4	0	0	0	Х	0	0	
5	M(S)F3	0	0	Х	0	0	0	
5	M(S)F2	0	Х	0	0	0	0	
4	M(S)F4	0	0	0	Х	0		
4	M(S)F3	0	0	Х	0	0		
4	M(S)F2	0	Х	0	0	0		
3	M(S)F3	О	0	Х	0			
3	M(S)F2	0	Х	0	0			
2	M(S)F2	0	Х	0				
No of	X = middle							
	flange	1	2	3	4	5	6	7
poles	position							

Example of use





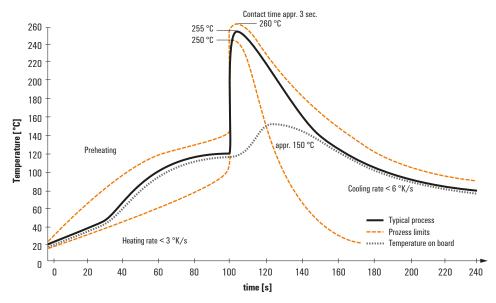
Recommended wave solderding profiles

Weidmüller Interface GmbH & Co. KG

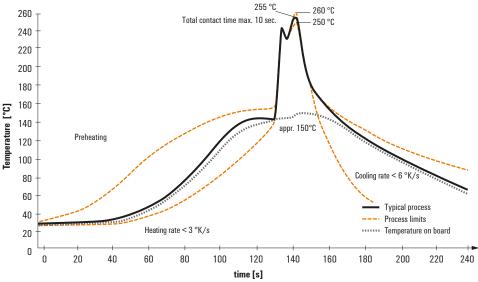
Klingenbergstraße 16 D-32758 Detmold Germany

Fon: +49 5231 14-0 Fax: +49 5231 14-292083 www.weidmueller.com

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.