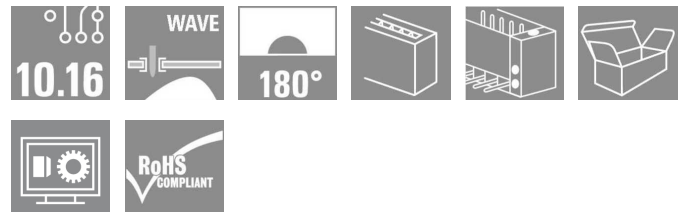


**OMNIMATE Power - series BU/SU 10.16HP  
SU 10.16HP/07/180F 3.5AG BK BX**

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www.weidmueller.com



Single-row, high-current male header, for side-by-side mounting without sacrificing any poles, or with patented flange for fast locking without tools. Maximum connection and operating reliability thanks to a mating profile that prevents incorrect connection, with unique coding diversity, additional fastening and integrable positioning aid. 3.5 mm pin length is optimised for wave soldering, plug-in direction 180° to solder pins.

**General ordering data**

Type	SU 10.16HP/07/180F 3.5AG BK BX
Order No.	<a href="#">1813700000</a>
Version	PCB plug-in connector, male header, Clip-on flange, THT solder connection, 10.16 mm, No. of poles: 7, 180°, Solder pin length (l): 3.5 mm, silver-plated, Black, Box
GTIN (EAN)	4032248297924
Qty.	20 pc(s).
Product data	IEC: 1000 V / 78.3 A UL: 300 V / 60 A
Packaging	Box

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**Technical data**
**Dimensions and weights**

Net weight 36.9 g

**System specifications**

Product family		Type of connection	
OMNIMATE Power - series 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 inch	Outgoing elbow	180°
No. of poles	7	Number of solder pins per pole	3
Solder pin length (l)	3.5 mm	Solder pin length tolerance	+0.1 / -0.3 mm
Tolerance of solder pin position	± 0.1 mm	Solder pin dimensions	1.2 x 1.1 mm
Solder pin dimensions = d tolerance	+0.1 / -0.1 mm	Solder eyelet hole diameter (D)	1.6 mm
Solder eyelet hole diameter tolerance (D)	+ 0,1 mm	L1 in mm	60.96 mm
L1 in inches	2.4 inch	Number of rows	1
Pin series quantity	1	Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch, plugged
Touch-safe protection acc. to DIN VDE 0470	IP20 plugged	Volume resistance	2.00 mΩ
Can be coded	Yes	Plugging cycles	25
push-in force/pole	10 N	Withdrawal force per pole	15 N
Packaging	Box		

**Material data**

Insulating material		Colour	
PBT GF		Black	
Colour chart (similar)	RAL 9011	Insulating material group	IIIa
CTI	≥ 200	Insulation resistance	≥ 10 <sup>8</sup> Ω
UL 94 flammability rating	V-0	Contact material	Cu-Leg
Contact surface	silver-plated	Layer structure of solder connection	3- μm Ag
Layer structure of plug contact	3- μm Ag	Storage temperature, min.	-25 °C
Storage temperature, max.	55 °C	Max. relative humidity during storage	80 %
Operating temperature, min.	-50 °C	Operating temperature, max.	120 °C
Temperature range, installation, min.	-25 °C	Temperature range, installation, max.	120 °C

**Rated data acc. to IEC**

tested acc. to standard		Rated current, min. no. of poles (Ta = 20°C)	
IEC 60664-1, IEC 61984		78.3 A	
Rated current, max. no. of poles (Ta = 20°C)	67.9 A	Rated current, min. no. of poles (Ta = 40°C)	70.6 A
Rated current, max. no. of poles (Ta = 40°C)	61.3 A	Rated voltage for surge voltage class / pollution degree II/2	1,000 V
Rated voltage for surge voltage class / pollution degree III/2	1,000 V	Rated voltage for surge voltage class / pollution degree III/3	690 V
Rated impulse voltage for surge voltage class/ pollution degree II/2	6 kV	Rated impulse voltage for surge voltage class/ pollution degree III/2	8 kV
Rated impulse voltage for surge voltage class/ contamination degree III/3	8 kV	Short-time withstand current resistance	3 x 1s mit 1000 A
Clearance, min.	8.9 mm	Creepage distance, min.	10.5 mm

**Rated data acc. to CSA**

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

Creation date November 21, 2016 2:31:05 PM CET

**OMNIMATE Power - series BU/SU 10.16HP  
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**Technical data****Rated data acc. to UL 1059**

Institute (cURus)



Certificate No. (cURus)

E60693

Rated voltage (use group B)	300 V	Rated voltage (use group C)	300 V
Rated voltage (use group D)	600 V	Rated current (use group B)	60 A
Rated current (use group C)	60 A	Rated current (use group D)	5 A
Clearance distance, min.	8.9 mm	Creepage distance, min.	10.5 mm
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

**Classifications**

ETIM 3.0	EC001284	ETIM 4.0	EC002637
ETIM 5.0	EC002637	ETIM 6.0	EC002637
UNSPSC	30-21-18-10	eClass 5.1	27-26-07-04
eClass 6.2	27-26-07-04	eClass 7.1	27-44-04-02
eClass 8.1	27-44-04-02	eClass 9.0	27-44-04-02
eClass 9.1	27-44-04-02		

**Notes**

Notes	<ul style="list-style-type: none"> <li>• Additional colours on request</li> <li>• Rated current related to rated cross-section &amp; min. No. of poles.</li> <li>• Wire end ferrule with plastic collar to DIN 46228/4</li> <li>• Wire end ferrule without plastic collar to DIN 46228/1</li> <li>• P on drawing = pitch</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> </ul>
IPC conformity	The products are developed, manufactured and delivered according to the internationally recognised IPC-A-610 standard, category "permissible". More extensive demands on the products can be evaluated on request.

**Approvals**

Approvals



ROHS Conform

**Data sheet****OMNIMATE Power - series BU/SU 10.16HP  
SU 10.16HP/07/180F 3.5AG BK BX**

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**Technical data****Downloads**

EDA Layout Library (Mentor Graphics  
Expedition, Mentor Graphics Pads,  
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[Select your download](#)

Engineering data

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Motion controllers white paper

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CAD Library (P-CAD Format - ASCII)

[SU.zip](#)

CAD Library (P-CAD Format - Standard)

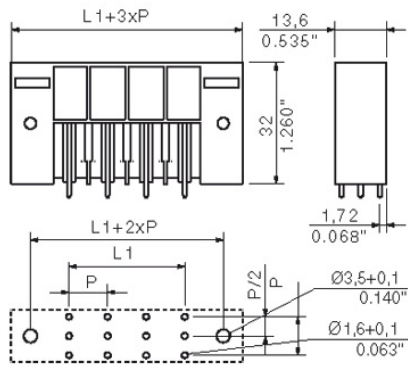
[SU.zip](#)

**Data sheet**

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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.

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