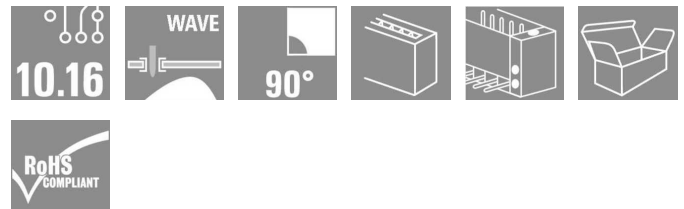


**OMNIMATE Power - series BU/SU 10.16HP  
SU 10.16HP/02/90F 3.5AG BK BX**

**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-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 and additional fastening in the flange. 3.5 mm pin length is optimised for wave soldering, plug-in direction 90° to solder pins.

**General ordering data**

Type	SU 10.16HP/02/90F 3.5AG BK BX
Order No.	<a href="#">1813570000</a>
Version	PCB plug-in connector, male header, Clip-on flange, Solder connection, 10.16 mm, No. of poles: 2, 90°, Solder pin length (l): 3.5 mm, silver-plated, Black, Box
GTIN (EAN)	4032248297788
Qty.	50 pc(s).
Product data	IEC: 1000 V / 78.3 A UL: 300 V / 60 A
Packaging	Box

**OMNIMATE Power - series BU/SU 10.16HP  
SU 10.16HP/02/90F 3.5AG BK BX**

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

Net weight 14.84 g

**System parameters**

Product family		Mounting onto the PCB	
Product family	OMNIMATE Power - series BU/SU 10.16HP		Solder connection
Outgoing elbow	90°	Pitch in mm (P)	10.16 mm
Pitch in inches (P)	0.4 inch	No. of poles	2
Solder pin length (l)	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
Plugging cycles	25	Can be coded	Yes
Number of solder pins per pole	3	Solder eyelet hole diameter (D)	1.6 mm
Solder eyelet hole diameter tolerance (D)	+ 0,1 mm	L1 in mm	10.16 mm
L1 in inches	0.4 inch	Insulation resistance	$\geq 10^8 \Omega$
Touch-safe protection acc. to DIN VDE 0470	IP20 plugged	Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch, plugged
Volume resistance	2.00 m $\Omega$		

**Material data**

Insulating material	PBT GF	Moisture Level (MSL)	3
Colour	Black	Insulating material group	IIIa
UL 94 flammability rating	V-0	CTI	$\geq 200$
Contact material	Cu-Leg	Contact surface	silver-plated
Operating temperature, min.	-50 °C	Operating temperature, max.	120 °C
Temperature range, installation, min.	-25 °C	Temperature range, installation, max.	120 °C
Storage temperature, min.	-25 °C	Storage temperature, max.	55 °C
Max. relative humidity during storage	80 %		

**Rating data acc. to IEC 60664-1 / IEC 61984**

Rated current, min. no. of poles (Ta = 20°C)	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 III/3	690 V	Rated impulse voltage for surge voltage class/ contamination degree III/3	8 kV
Rated voltage for surge voltage class / pollution degree III/2	1,000 V	Rated impulse voltage for surge voltage class/ pollution degree III/2	8 kV
Rated voltage for surge voltage class / pollution degree II/2	1,000 V	Rated impulse voltage for surge voltage class/ pollution degree II/2	6 kV
Short-time withstand current resistance	3 x 1s mit 1000 A		

**Material data**

Insulating material	PBT GF	Colour	Black
Colour chart (similar)	RAL 9011	Insulating material group	IIIa
CTI	$\geq 200$	Insulation resistance	$\geq 10^8 \Omega$
Moisture Level (MSL)	3	UL 94 flammability rating	V-0
Contact material	Cu-Leg	Contact surface	silver-plated
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		

Creation date February 19, 2016 12:25:26 PM CET

**OMNIMATE Power - series BU/SU 10.16HP  
SU 10.16HP/02/90F 3.5AG BK BX**


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**Technical data**

**Rated data acc. to CSA**

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

**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
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

**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/02/90F 3.5AG BK BX**

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**Technical data****Downloads**

EDA Layout Library (Mentor Graphics  
Expedition, Mentor Graphics Pads,  
Altium Designer)

[Select your download](#)

CAD Library (P-CAD Format - ASCII) [SU.zip](#)

CAD Library (P-CAD Format - Standard) [SU.zip](#)

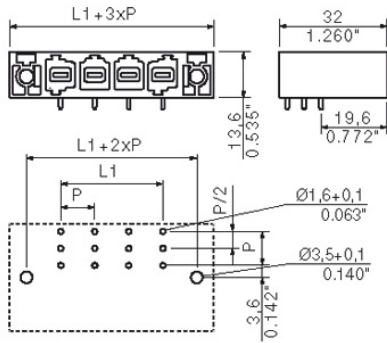
[3-D model](#)

**Data sheet**

**OMNIMATE Power - series BU/SU 10.16HP  
SU 10.16HP/02/90F 3.5AG BK BX**

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**Drawings**



**OMNIMATE Power - series BU/SU 10.16HP  
SU 10.16HP/02/90F 3.5AG BK BX**

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**Mating connector (conditionally pluggable)**
**Variants**


High-performance female header with the proven, 100% maintenance-free Weidmüller steel clamping yoke. Side-by-side mounting without sacrificing any poles or with patented multifunction flange for secure, fast fixing without tools. Maximum connection and operating reliability thanks to a mating profile that prevents incorrect connection, unique coding diversity, protection against incorrect wiring and 4-point silver contact.

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BUZ 10.16HP/02/180 AG BK BX PRT	<a href="#">1131460000</a>	PCB plug-in connector, female plug, 10.16 mm, No. of poles: 2, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 16 mm <sup>2</sup> , Box	403224891 1585 50 pc(s).		IEC: 1000 V / 78.3 A / 0.2 - 16 mm <sup>2</sup> UL: 600 V / 60 A / AWG 22 - AWG 4	Box

**BUZ 10.16HP/180**


High-performance female header with the proven, 100% maintenance-free Weidmüller steel clamping yoke. Side-by-side mounting without sacrificing any poles or with patented multifunction flange for secure, fast fixing without tools. Maximum connection and operating reliability thanks to a mating profile that prevents incorrect connection, unique coding diversity, protection against incorrect wiring and 4-point silver contact.

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BUZ 10.16HP/02/180 AG BK BX	<a href="#">1924540000</a>	PCB plug-in connector, female plug, 10.16 mm, No. of poles: 2, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 16 mm <sup>2</sup> , Box	4032248564057 50 pc(s).		IEC: 1000 V / 78.3 A / 0.2 - 16 mm <sup>2</sup> UL: 600 V / 60 A / AWG 22 - AWG 4	Box

**OMNIMATE Power - series BU/SU 10.16HP  
SU 10.16HP/02/90F 3.5AG BK BX**

**Weidmüller Interface GmbH & Co. KG**  
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Fax: +49 5231 14-292083  
www.weidmueller.com

**Mating connector (conditionally pluggable)**
**BUL 10.16HP/180G**

**OMNIMATE Power BU / SU 7.62HP - the 50 kVA power class**
**More current for higher performance.**

Top of the class in today's connector systems – the OMNIMATE Power SU / BUZ 10.16HP. They feature a very durable contact system which makes it a pluggable power transmission solution with maximum load reserves. HP stands for High Performance – performance exemplified by a long-term usage temperature of 120°C. This custom, pluggable solution is suitable for all applications that must meet 600 V UL or 1,000 V (IEC) with up to 76 A (IEC) and 54 A (UL).

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BUL 10.16HP/02/180 4.5AG BK BX SO	<a href="#">1289000000</a>	PCB plug-in connector, female header, closed side, Solder connection, 10.16 mm, No. of poles: 2, 180°, Solder pin length (l): 4.5 mm, silver-plated, Black, Box	4050118080704	50 pc(s).	IEC: 1000 V / 76 A UL: 300 V / 57 A	Box

**BUZ 10.16HP/180SF**


High-performance female header with the proven, 100% maintenance-free Weidmüller steel clamping yoke. Side-by-side mounting without sacrificing any poles or with patented multifunction flange for secure, fast fixing without tools. Maximum connection and operating reliability thanks to a mating profile that prevents incorrect connection, unique coding diversity, protection against incorrect wiring and 4-point silver contact.

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BUZ 10.16HP/02/180SF AG BK BX	<a href="#">1924700000</a>	PCB plug-in connector, female plug, 10.16 mm, No. of poles: 2, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 16 mm <sup>2</sup> , Box	4032248564859	50 pc(s).	IEC: 1000 V / 78.3 A / 0.2 - 16 mm <sup>2</sup> UL: 600 V / 60 A / AWG 22 - AWG 4	Box

**OMNIMATE Power - series BU/SU 10.16HP  
SU 10.16HP/02/90F 3.5AG BK BX**

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**Mating connector (fully pluggable)**
**BUZ 10.16HP/180F**


High-performance female header with the proven, 100% maintenance-free Weidmüller steel clamping yoke. Side-by-side mounting without sacrificing any poles or with patented multifunction flange for secure, fast fixing without tools. Maximum connection and operating reliability thanks to a mating profile that prevents incorrect connection, unique coding diversity, protection against incorrect wiring and 4-point silver contact.

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BUZ 10.16HP/02/180F AG BK BX	<a href="#">1924620000</a>	PCB plug-in connector, female plug, 10.16 mm, No. of poles: 2, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 16 mm <sup>2</sup> , Box	4032248564736 50 pc(s).		IEC: 1000 V / 78.3 A / 0.2 - 16 mm <sup>2</sup> UL: 600 V / 60 A / AWG 22 - AWG 4	Box

**Variants**


High-performance female header with the proven, 100% maintenance-free Weidmüller steel clamping yoke. Side-by-side mounting without sacrificing any poles or with patented multifunction flange for secure, fast fixing without tools. Maximum connection and operating reliability thanks to a mating profile that prevents incorrect connection, unique coding diversity, protection against incorrect wiring and 4-point silver contact.

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BUZ 10.16HP/02/180F AG BK BX SO	<a href="#">1254940000</a>	PCB plug-in connector, female plug, 10.16 mm, No. of poles: 2, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 16 mm <sup>2</sup> , Box	4050118047646 28 pc(s).		IEC: 1000 V / 78.3 A / 0.2 - 16 mm <sup>2</sup> UL: 600 V / 60 A / AWG 22 - AWG 4	Box



## Recommended wave soldering profiles

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 Germany  
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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.

# Addresses worldwide




Let's connect.

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