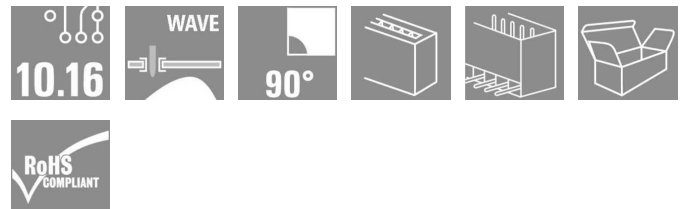


**OMNIMATE Power - series BU/SU 10.16HP  
SU 10.16HP/02/90G 3.5AG BK BX**

**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/02/90G 3.5AG BK BX
Order No.	<a href="#">1813330000</a>
Version	PCB plug-in connector, male header, closed side, Solder connection, 10.16 mm, No. of poles: 2, 90°, Solder pin length (l): 3.5 mm, silver-plated, Black, Box
GTIN (EAN)	4032248297511
Qty.	50 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	8.74 g
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**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		


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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/02/90G 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](#)

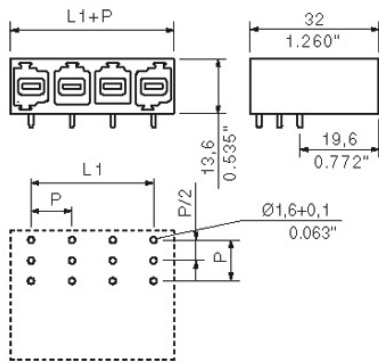
CAD Library (P-CAD Format - ASCII) [SU.zip](#)

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

[3-D model](#)

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

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**Drawings**

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

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**Mating connector (conditionally 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

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

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**Mating connector (conditionally pluggable)**
**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/02/90G 3.5AG BK BX**

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

**Mating connector (fully 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/02/90G 3.5AG BK BX**

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 www.weidmueller.com

**Mating connector (fully 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

**Data sheet**

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

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**Accessories**

**Coding elements**



**Only connects what is supposed to be connected:  
the right connection at the right place.**

Coding elements and locking devices clearly assign connecting elements during the manufacturing process and operation

The coding elements and locking devices are inserted prior to assembly or during the cable assembly phase. The Weidmüller alternative: configure online using the variant configurator to precode prior to delivery.

Incorrect assembly on the circuit board and incorrect plugging of connecting elements is no longer possible. The advantage: no troubleshooting during manufacture and no operational errors by the user.

**General ordering data**

Delivery status Available until	Type	Order No.	Version	GTIN (EAN)	Qty.
This article will no longer be available in the future.	BV/SV 7.62HP KO	<a href="#">1937590000</a>	PCB plug-in connector, Accessories, Coding element, Black, No. of poles: 1	4032248608881	50 pc(s).

## 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.

# Addresses worldwide




Let's connect.

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