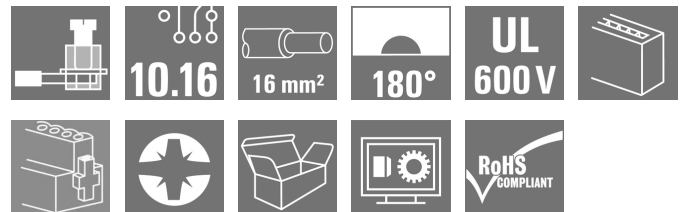


**OMNIMATE Power - series BU/SU 10.16HP
BUZ 10.16HP/03/180SF AG BK BX**

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 1429-0
Fax: +49 5231 14292083
www.weidmueller.com



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	BUZ 10.16HP/03/180SF AG BK BX
Order No.	1924710000
Version	PCB plug-in connector, female plug, 10.16 mm, No. of poles: 3, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 16 mm ² , Box
GTIN (EAN)	4032248564866
Qty.	24 pc(s).
Product data	IEC: 1000 V / 78.3 A / 0.2 - 16 mm ² UL: 600 V / 60 A / AWG 22 - AWG 4
Packaging	Box

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BUZ 10.16HP/03/180SF AG BK BX**

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Technical data**Dimensions and weights**

Net weight	43.042 g
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System parameters

Product family	OMNIMATE Power - series BU/SU 10.16HP	Type of connection	Screw connection
Wire connection method	Clamping yoke connection	Pitch in mm (P)	10.16 mm
Pitch in inches (P)	0.4 inch	Conductor outlet direction	180°
No. of poles	3	L1 in mm	20.32 mm
L1 in inches	0.8 inch	Number of rows	1
Pin series quantity	1	Rated cross-section	16 mm ²
Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch	Touch-safe protection acc. to DIN VDE 0470	IP 20
Volume resistance	4.50 mΩ	Can be coded	Yes
Stripping length	12 mm	Tightening torque, min.	1.2 Nm
Tightening torque, max.	1.5 Nm	Clamping screw	M 4
Screwdriver blade	1.0 x 5.5	Screwdriver blade standard	DIN 5264, ISO 8764/2-PZ
Plugging cycles	25	push-in force/pole	10 N
Withdrawal force per pole	15 N	Packaging	Box

Material data

Insulating material	PA GF	Colour	Black
Colour chart (similar)	RAL 9011	Insulating material group	I
CTI	≥ 600	Insulation resistance	≥ 10 ⁸ Ω
UL 94 flammability rating	V-0	Contact material	Copper alloy
Contact surface	silver-plated	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.	130 °C	Temperature range, installation, min.	-25 °C
Temperature range, installation, max.	130 °C		

Conductors suitable for connection

Clamping range, rated connection, min.	0.2 mm ²	Clamping range, rated connection, max.	16 mm ²
Wire connection cross section AWG, min.	AWG 22	Wire connection cross section AWG, max.	AWG 6
Solid, min. H05(07) V-U	0.2 mm ²	Solid, max. H05(07) V-U	16 mm ²
Stranded, min. H07V-R	6 mm ²	Stranded, max. H07V-R	16 mm ²
Flexible, min. H05(07) V-K	0.5 mm ²	Flexible, max. H05(07) V-K	16 mm ²
w. plastic collar ferrule, DIN 46228 pt 4, min.	0.25 mm ²	w. plastic collar ferrule, DIN 46228 pt 4, max.	16 mm ²
w. wire end ferrule, DIN 46228 pt 1, min.	0.25 mm ²	w. wire end ferrule, DIN 46228 pt 1, max.	16 mm ²
Plug gauge acc. to EN 60999 a x b; Ø	5.3mm (B6)		

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Technical data


Rated data acc. to IEC

tested acc. to standard	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 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	1,000 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.	15.1 mm	Creepage distance, min.	15.1 mm

Rated data acc. to CSA

Institute (CSA)		Certificate No. (CSA)	200039-1842490
Rated voltage (Use group B)	600 V	Rated voltage (Use group C)	600 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
Wire cross-section, AWG, min.	AWG 22	Wire cross-section, AWG, max.	AWG 4
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

Rated data acc. to UL 1059

Institute (cURus)		Certificate No. (cURus)	E60693
Rated voltage (use group B)	600 V	Rated voltage (use group C)	600 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
Wire cross-section, AWG, min.	AWG 22	Wire cross-section, AWG, max.	AWG 4
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		

Data sheet

**OMNIMATE Power - series BU/SU 10.16HP
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Technical data

Notes

Notes	<ul style="list-style-type: none"> • Additional colours on request • Rated current related to rated cross-section & min. No. of poles. • Wire end ferrule with plastic collar to DIN 46228/4 • Wire end ferrule without plastic collar to DIN 46228/1 • 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.
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

Downloads

Approval/Certificate/Document of Conformity	Declaration of the Manufacturer
Brochure/Catalogue	FL DRIVES EN MB DEVICE MANUF. EN FL DRIVES DE CAT 2 PORTFOLIOGUIDE EN FL HEATING ELECTR EN FL APPL_INVERTER EN FL_BASE_STATION_EN FL ELEVATOR EN FL POWER SUPPLY EN FL 72H SAMPLE SER EN PO OMNIMATE EN
Engineering Data	EPLAN_WSCAD
Motion controllers white paper	Download Whitepaper
White Paper UL 600 V	Download Whitepaper

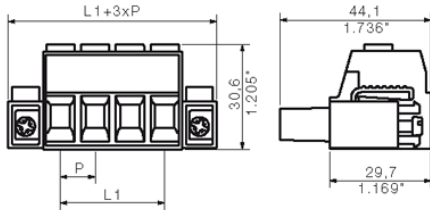
Data sheet

**OMNIMATE Power - series BU/SU 10.16HP
BUZ 10.16HP/03/180SF AG BK BX**

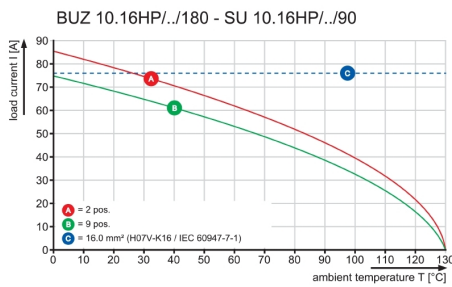
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Drawings

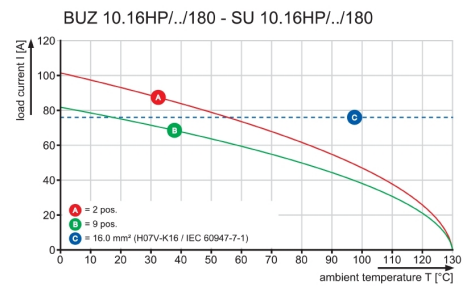
Dimensional drawing



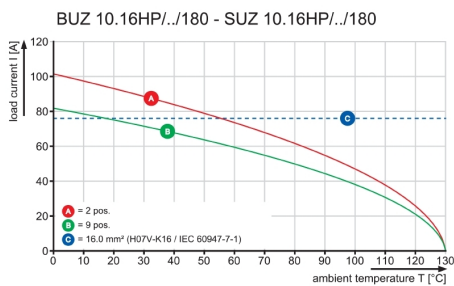
Graph



Graph



Graph



**OMNIMATE Power - series BU/SU 10.16HP
BUZ 10.16HP/03/180SF AG BK BX**

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Mating connector (conditionally pluggable)
SU 10.16HP/90F


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	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SU 10.16HP/03/90F 3.5AG BK BX	1813580000	PCB plug-in connector, male header, Clip-on flange, THT solder connection, 10.16 mm, No. of poles: 3, 90°, Solder pin length (l): 3.5 mm, silver-plated, Black, Box	4032248297795	50 pc(s).	IEC: 1000 V / 78.3 A UL: 300 V / 60 A	Box

SU 10.16HP/90G


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	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SU 10.16HP/03/90G 3.5AG BK BX	1813340000	PCB plug-in connector, male header, closed side, THT solder connection, 10.16 mm, No. of poles: 3, 90°, Solder pin length (l): 3.5 mm, silver-plated, Black, Box	4032248297535	60 pc(s).	IEC: 1000 V / 78.3 A UL: 300 V / 60 A	Box

**OMNIMATE Power - series BU/SU 10.16HP
BUZ 10.16HP/03/180SF AG BK BX**

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Mating connector (conditionally pluggable)
SU 10.16HP/270G


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

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SU 10.16HP/03/270G 3.5AG BK BX	1813500000	PCB plug-in connector, male header, closed side, THT solder connection, 10.16 mm, No. of poles: 3, 270°, Solder pin length (l): 3.5 mm, silver-plated, Black, Box	4032248297719	60 pc(s).	IEC: 1000 V / 78.3 A UL: 300 V / 60 A	Box

SU 10.16HP/270F


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

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SU 10.16HP/03/270F 3.5AG BK BX	1813740000	PCB plug-in connector, male header, Clip-on flange, THT solder connection, 10.16 mm, No. of poles: 3, 270°, Solder pin length (l): 3.5 mm, silver-plated, Black, Box	4032248297962	36 pc(s).	IEC: 1000 V / 78.3 A UL: 300 V / 60 A	Box

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BUZ 10.16HP/03/180SF AG BK BX**

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Mating connector (conditionally pluggable)
SU 10.16HP/180G


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	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SU 10.16HP/03/180G 3.5AG BK BX	1813420000	PCB plug-in connector, male header, closed side, THT solder connection, 10.16 mm, No. of poles: 3, 180°, Solder pin length (l): 3.5 mm, silver-plated, Black, Box	4032248297610	60 pc(s).	IEC: 1000 V / 78.3 A UL: 300 V / 60 A	Box

SUZ 10.16HP 180G AG

**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
SUZ 10.16HP/03/180G AG BK BX	1947490000	PCB plug-in connector, male plug, 10.16 mm, No. of poles: 3, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 16 mm², Box	4032248623778	44 pc(s).	IEC: 1000 V / 78 A / 0.2 - 16 mm² UL: 600 V / 57 A / AWG 24 - AWG 6	Box

**OMNIMATE Power - series BU/SU 10.16HP
BUZ 10.16HP/03/180SF AG BK BX**

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Mating connector (conditionally pluggable)
SU 10.16HP/180F


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	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SU 10.16HP/03/180F 3.5AG BK BX	1813660000	PCB plug-in connector, male header, Clip-on flange, THT solder connection, 10.16 mm, No. of poles: 3, 180°, Solder pin length (l): 3.5 mm, silver-plated, Black, Box	4032248297887	36 pc(s).	IEC: 1000 V / 78.3 A UL: 300 V / 60 A	Box

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Mating connector (fully pluggable)
SU 10.16HP/270SF


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

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SU 10.16HP/03/270SF 3.5AG BK BX	1851130000	PCB plug-in connector, male header, Screw/clip-on flange, THT solder connection, 10.16 mm, No. of poles: 3, 270°, Solder pin length (l): 3.5 mm, silver-plated, Black, Box	4032248382095	36 pc(s).	IEC: 1000 V / 78.3 A UL: 300 V / 60 A	Box

SU 10.16HP/90SF


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	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SU 10.16HP/03/90SF 3.5AG BK BX	1851050000	PCB plug-in connector, male header, Screw/clip-on flange, THT solder connection, 10.16 mm, No. of poles: 3, 90°, Solder pin length (l): 3.5 mm, silver-plated, Black, Box	4032248382019	36 pc(s).	IEC: 1000 V / 78.3 A UL: 300 V / 60 A	Box

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Mating connector (fully pluggable)

SU 10.16HP/180SF



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	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SU 10.16HP/03/180SF 3.5AG BK BX	1850890000	PCB plug-in connector, male header, Screw/clip-on flange, THT solder connection, 10.16 mm, No. of poles: 3, 180°, Solder pin length (l): 3.5 mm, silver-plated, Black, Box	403224838178450	pc(s).	IEC: 1000 V / 78.3 A UL: 300 V / 60 A	Box

Data sheet

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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

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BV/SV 7.62HP KO	1937590000	PCB plug-in connector, Accessories, Coding element, Black, No. of poles: 1	4032248608881	50 pc(s).	UL:	Box