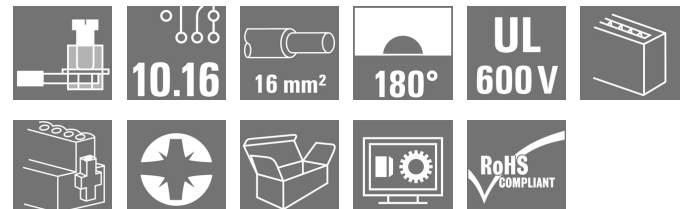


**OMNIMATE Power - series BU/SU 10.16HP
BUZ 10.16HP/02/180F AG BK BX**

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 16
 D-32758 Detmold
 Germany
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 www.weidmueller.com

Product image


Similar to illustration

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/02/180F AG BK BX
Order No.	1924620000
Version	PCB plug-in connector, female plug, 10.16 mm, No. of poles: 2, 180°, Clamping yoke connection, Clamping range, max. : 16 mm², Box
GTIN (EAN)	4032248564736
Qty.	28 pc(s).
Product data	IEC: 1000 V / 78.3 A / 0.2 - 16 mm² UL: 600 V / 60 A / AWG 22 - AWG 4
Packaging	Box

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Technical data

Dimensions and weights

Net weight	28.7 g
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system parameters

Product family	OMNIMATE Power - series BU/SU 10.16HP	Type of connection	Field 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	2	L1 in mm	10.16 mm
L1 in inches	0.4 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, PZ 2	Screwdriver blade standard	DIN 5264, ISO 8764/2-PZ
Plugging cycles	25	Plugging force/pole, max.	15.5 N
Pulling force/pole, max.	14.5 N		

Material data

Insulating material	PA GF	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	I
CTI	≥ 600	Insulation strength	≥ 10 ⁸ Ω
UL 94 flammability rating	V-0	GWFI	960 °C
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, min.	0.2 mm ²
Clamping range, 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, 0.25 mm ² min.	
w. plastic collar ferrule, DIN 46228 pt 4, 16 mm ² max.	
w. wire end ferrule, DIN 46228 pt 1, min 0.25 mm ²	
w. wire end ferrule, DIN 46228 pt 1, 16 mm ² max.	
Plug gauge in accordance with EN 60999 a x b; ø	5.3mm (B6)

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Technical data

Clampable conductor	Cross-section for conductor connection	Type	fine-wired
		nominal	0.5 mm ²
AEH	Stripping length	nominal	14 mm
Cross-section for conductor connection	Type	fine-wired	
	nominal	1 mm ²	
AEH	Stripping length	nominal	15 mm
Cross-section for conductor connection	Type	fine-wired	
	nominal	1.5 mm ²	
AEH	Stripping length	nominal	15 mm
Cross-section for conductor connection	Type	fine-wired	
	nominal	0.75 mm ²	
AEH	Stripping length	nominal	14 mm
Cross-section for conductor connection	Type	fine-wired	
	nominal	2.5 mm ²	
AEH	Stripping length	nominal	14 mm
Cross-section for conductor connection	Type	fine-wired	
	nominal	4 mm ²	
AEH	Stripping length	nominal	12 mm
Cross-section for conductor connection	Type	fine-wired	
	nominal	6 mm ²	
AEH	Stripping length	nominal	14 mm
Cross-section for conductor connection	Type	fine-wired	
	nominal	10 mm ²	
AEH	Stripping length	nominal	12 mm
Cross-section for conductor connection	Type	fine-wired	
	nominal	16 mm ²	
AEH	Stripping length	nominal	15 mm
Cross-section for conductor connection	Type	fine-wired	
	nominal	16 mm ²	
AEH	Stripping length	nominal	12 mm
Cross-section for conductor connection	Type	fine-wired	
	nominal	16 mm ²	
AEH	Stripping length	nominal	15 mm

Max. clamping range 16 mm²

Rated data acc. to IEC

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. no. of poles (Tu=20°C)	78.3 A
Rated current, max. no. of poles (Tu=20°C)	67.9 A	Rated current, min. no. of poles (Tu=40°C)	70.6 A
Rated current, max. no. of poles (Tu=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

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Technical data
Rated data acc. to CSA

Institute (CSA)



Certificate No. (CSA)

200039-1842490

Rated voltage (Use group B / CSA)	600 V
Rated voltage (Use group D / CSA)	600 V
Rated current (Use group C / CSA)	60 A
Wire cross-section, AWG, min.	AWG 22
Reference to approval values	Specifications are maximum values, details - see approval certificate.

Rated voltage (Use group C / CSA)	600 V
Rated current (Use group B / CSA)	60 A
Rated current (Use group D / CSA)	5 A
Wire cross-section, AWG, max.	AWG 4

Rated data acc. to UL 1059

Institute (cURus)



Certificate No. (cURus)

E60693

Rated voltage (Use group B / UL 1059)	600 V
Rated voltage (Use group D / UL 1059)	600 V
Rated current (Use group C / UL 1059)	60 A
Wire cross-section, AWG, min.	AWG 22
Reference to approval values	Specifications are maximum values, details - see approval certificate.

Rated voltage (Use group C / UL 1059)	600 V
Rated current (Use group B / UL 1059)	60 A
Rated current (Use group D / UL 1059)	5 A
Wire cross-section, AWG, max.	AWG 4

Packing

Packaging	Box	VPE length	75 mm
VPE width	160 mm	VPE height	260 mm

Classifications

ETIM 3.0	EC001284	ETIM 4.0	EC002637
ETIM 5.0	EC002637	ETIM 6.0	EC002638
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	27-44-03-09
eClass 9.1	27-44-03-09		

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Technical data

Notes

Notes

- 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.
- 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.

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.

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](#)

Engineering Data

[STEP](#)

Motion controllers white paper

[Download Whitepaper](#)

User Documentation

[QR-Code product handling video](#)

White Paper UL 600 V

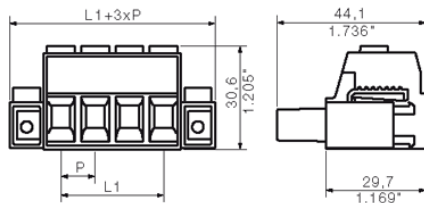
[Download Whitepaper](#)

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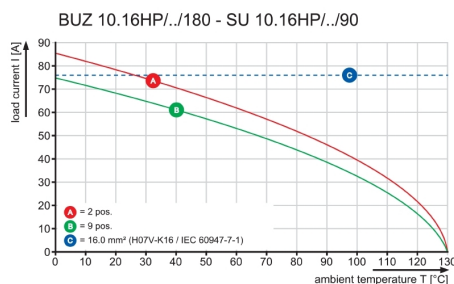
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Drawings

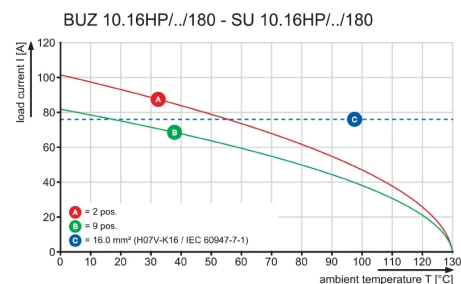
Dimensional drawing



Graph



Graph



Graph

