

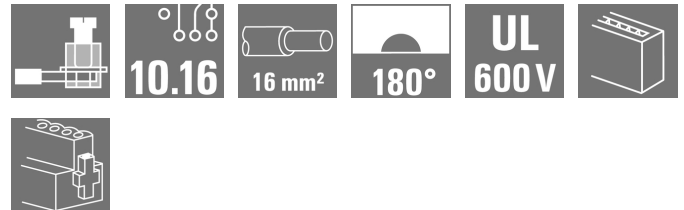
BUZ 10.16IT/04/180MF2SH180 AG BK BX**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

**OMNIMATE Power for IT networks – scalable to 50 kVA****Tailor-made solutions for special requirements**

More standard-compliance means fewer compromises: OMNIMATE Power for IT networks has integrated features incorporated as standard across the range. This makes the design-in and approvals process simpler and makes them safer and more reliable in operation.

Results for the application and advantages for the user: unlimited use in 400-V IT systems and touch safety according to IEC 61800-5-1 (+ 5.5 mm). The self-snapping one-handed safety flange enables intuitive and safe usage. Operational reliability is guaranteed by the automatic interlock feature during the plug-in process. In conclusion: You need no additional device covering. The application-oriented design means that no compromises are necessary during the approval process. Including pre-assembled pluggable shield connection for large area shielding in your application.

General ordering data

Version	PCB plug-in connector, female plug, 10.16 mm, Number of poles: 4, 180°, Clamping yoke connection, Clamping range, max. : 16 mm², Box
Order No.	2627390000
Type	BUZ 10.16IT/04/180MF2SH180 AG BK BX
GTIN (EAN)	4050118631272
Qty.	20 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

Depth	143.5 mm	Depth (inches)	5.65 inch
Height	86 mm	Height (inches)	3.386 inch
Net weight	97.213 g	Width	51.9 mm
Width (inches)	2.043 inch		

System Parameters

Product family	OMNIMATE Power - series BU/SU 10.16IT	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°
Number of poles	4	L1 in mm	40.64 mm
L1 in inches	1.6 inch	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 standard	DIN 5264, ISO 8764/2-PZ
Plugging cycles	≤ 50	Plugging force/pole, max.	14.5 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
Comparative Tracking Index (CTI)	≥ 600	Insulation strength	≥ 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.	-40 °C	Storage temperature, max.	70 °C
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 4
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, 0.25 mm ² min.	
w. wire end ferrule, DIN 46228 pt 1, 16 mm ² max.	

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Data sheet

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Plug gauge in accordance with EN 60999 a x b; ø 5.3mm (B6)

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Clampable conductor	Cross-section for conductor connection	Type	fine-wired
		nominal	0.5 mm ²
wire end ferrule	Stripping length	nominal	14 mm
		Recommended wire-end ferrule	H0.5/18 OR
Cross-section for conductor connection	Type	fine-wired	
		nominal	1 mm ²
wire end ferrule	Stripping length	nominal	15 mm
		Recommended wire-end ferrule	H1.0/18 GE
Cross-section for conductor connection	Type	fine-wired	
		nominal	1.5 mm ²
wire end ferrule	Stripping length	nominal	15 mm
		Recommended wire-end ferrule	H1.5/18D SW
Stripping length	nominal	12 mm	
		Recommended wire-end ferrule	H1.5/12
Cross-section for conductor connection	Type	fine-wired	
		nominal	0.75 mm ²
wire end ferrule	Stripping length	nominal	14 mm
		Recommended wire-end ferrule	H0.75/18 W
Cross-section for conductor connection	Type	fine-wired	
		nominal	2.5 mm ²
wire end ferrule	Stripping length	nominal	14 mm
		Recommended wire-end ferrule	H2.5/19D BL
Stripping length	nominal	12 mm	
		Recommended wire-end ferrule	H2.5/12
Cross-section for conductor connection	Type	fine-wired	
		nominal	4 mm ²
wire end ferrule	Stripping length	nominal	12 mm
		Recommended wire-end ferrule	H4.0/12
Stripping length	nominal	14 mm	
		Recommended wire-end ferrule	H4.0/20D GR
Cross-section for conductor connection	Type	fine-wired	
		nominal	6 mm ²
wire end ferrule	Stripping length	nominal	14 mm
		Recommended wire-end ferrule	H6.0/20 SW
Stripping length	nominal	12 mm	
		Recommended wire-end ferrule	H6.0/12
Cross-section for conductor connection	Type	fine-wired	
		nominal	10 mm ²
wire end ferrule	Stripping length	nominal	12 mm
		Recommended wire-end ferrule	H10.0/12
Stripping length	nominal	15 mm	
		Recommended wire-end ferrule	H10.0/22 EB
Cross-section for conductor connection	Type	fine-wired	
		nominal	16 mm ²
wire end ferrule	Stripping length	nominal	12 mm
		Recommended wire-end ferrule	H16.0/12
Stripping length	nominal	15 mm	
		Recommended wire-end ferrule	H16.0/22 GN

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Technical data

Reference text Length of ferrules is to be chosen depending on the product and the rated voltage.

Rated data acc. to IEC

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. number of poles (Tu=20°C)	78.3 A
Rated current, max. number of poles (Tu=20°C)	67.9 A	Rated current, min. number of poles (Tu=40°C)	70.6 A
Rated current, max. number 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

Rated data acc. to CSA

Rated voltage (Use group B / CSA)	600 V	Rated voltage (Use group C / CSA)	600 V
Rated voltage (Use group D / CSA)	600 V	Rated current (Use group B / CSA)	60 A
Rated current (Use group C / CSA)	60 A	Rated current (Use group D / CSA)	5 A
Wire cross-section, AWG, min.	AWG 22	Wire cross-section, AWG, max.	AWG 4

Rated data acc. to UL 1059

Rated voltage (Use group B / UL 1059)	600 V	Rated voltage (Use group C / UL 1059)	600 V
Rated voltage (Use group D / UL 1059)	600 V	Rated current (Use group B / UL 1059)	60 A
Rated current (Use group C / UL 1059)	60 A	Rated current (Use group D / UL 1059)	5 A
Wire cross-section, AWG, min.	AWG 22	Wire cross-section, AWG, max.	AWG 4

Packing

Packaging	Box	VPE length	352 mm
VPE width	162 mm	VPE height	105 mm

Classifications

ETIM 6.0	EC002638	ETIM 7.0	EC002638
ECLASS 9.0	27-44-03-09	ECLASS 9.1	27-44-03-09
ECLASS 10.0	27-44-03-09	ECLASS 11.0	27-46-02-02

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Important note

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.
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.• MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3• 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.• Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

Downloads

Brochure/Catalogue	Catalogues in PDF-format
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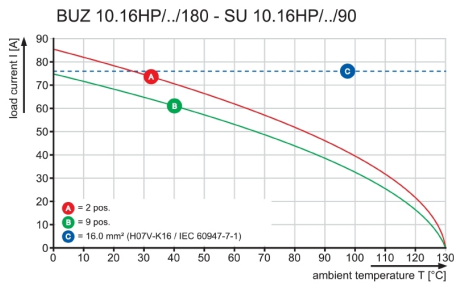
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Drawings

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