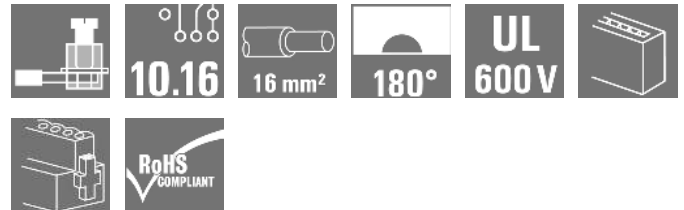


## OMNIMATE Power - series BU/SU 10.16IT BUZ 10.16IT/04/180MF3 AG BK BX

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 16  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
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www.weidmueller.com

### Product image



180° female plug with 10.16 pitch for IT power networks. Meets the requirements of UL 1059 600 V class C. In combination with male header SU 10.16 IT with leading contact.

Meets the extended requirements on 5.5 mm touch safety for IT power networks as per IEC 61800-5-1 for 400 V to earth.

The self-locking (optionally also screwable) middle flange reduces the space requirements by one pitch width in comparison with conventional solutions.

Also optionally available without middle flange interlock.

### General ordering data

Type	BUZ 10.16IT/04/180MF3 AG BK BX
Order No.	<a href="#">2000430000</a>
Version	PCB plug-in connector, female plug, 10.16 mm, No. of poles: 4, 180°, Clamping yoke connection, Clamping range, max. : 16 mm², Box
GTIN (EAN)	4050118382020
Qty.	18 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	56.7 g
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**system parameters**

Product family		Type of connection	
OMNIMATE Power - series BU/SU 10.16IT		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	4	L1 in mm	40.64 mm
L1 in inches	1.6 inch	Pin series quantity	1
Rated cross-section	16 mm <sup>2</sup>	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	25	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
CTI	≥ 600	Insulation strength	≥ 10 <sup>8</sup> 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 <sup>2</sup>
Clamping range, max.	16 mm <sup>2</sup>
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 <sup>2</sup>
Solid, max. H05(07) V-U	16 mm <sup>2</sup>
Stranded, min. H07V-R	6 mm <sup>2</sup>
Stranded, max. H07V-R	16 mm <sup>2</sup>
Flexible, min. H05(07) V-K	0.5 mm <sup>2</sup>
Flexible, max. H05(07) V-K	16 mm <sup>2</sup>
w. plastic collar ferrule, DIN 46228 pt 4, 0.25 mm <sup>2</sup> min.	
w. plastic collar ferrule, DIN 46228 pt 4, 16 mm <sup>2</sup> max.	
w. wire end ferrule, DIN 46228 pt 1, min 0.25 mm <sup>2</sup>	
w. wire end ferrule, DIN 46228 pt 1, 16 mm <sup>2</sup> max.	
Plug gauge in accordance with EN 60999 a x b; ø	5.3mm (B6)

Creation date June 12, 2019 9:26:50 PM CEST

Catalogue status 07.06.2019 / We reserve the right to make technical changes.

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**Technical data**

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

Max. clamping range 16 mm<sup>2</sup>

**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

**Rated data acc. to CSA**

Rated voltage (Use group B / CSA)	300 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

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### Technical data

#### 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 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
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

#### Packing

Packaging	Box	VPE length	350 mm
VPE width	135 mm	VPE height	60 mm

#### Classifications

ETIM 3.0	EC001284	ETIM 4.0	EC002637
ETIM 5.0	EC002637	ETIM 6.0	EC002638
eClass 6.2	27-26-07-04	eClass 9.0	27-44-03-09
eClass 9.1	27-44-03-09		

#### 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.
  - 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.

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

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**Data sheet****OMNIMATE Power - series BU/SU 10.16IT  
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**Technical data****Downloads**

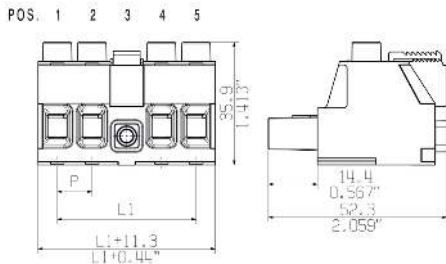
Brochure/Catalogue	<a href="#">FL DRIVES EN</a> <a href="#">MB DEVICE MANUF. EN</a> <a href="#">FL DRIVES DE</a> <a href="#">FL HEATING ELECTR EN</a> <a href="#">FL APPL INVERTER EN</a> <a href="#">FL_BASE_STATION_EN</a> <a href="#">FL ELEVATOR EN</a> <a href="#">FL POWER SUPPLY EN</a> <a href="#">FL 72H SAMPLE SER EN</a> <a href="#">PO OMNIMATE EN</a>
Engineering Data	<a href="#">STEP</a>
Motion controllers white paper	<a href="#">Download Whitepaper</a>
User Documentation	<a href="#">QR-Code product handling video</a>
White Paper UL 600 V	<a href="#">Download Whitepaper</a>

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**Drawings**

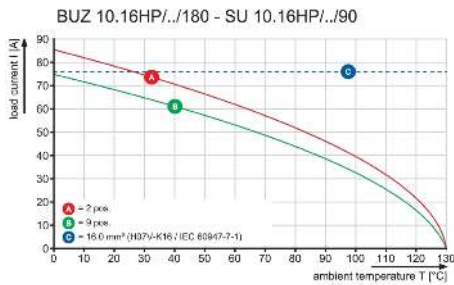
**Dimensional drawing**



**Connection diagram**

6	M(S)F6	o	o	o	o	o	X	o
6	M(S)F5	o	o	o	o	X	o	o
6	M(S)F4	o	o	o	X	o	o	o
6	M(S)F3	o	o	X	o	o	o	o
6	M(S)F2	o	X	o	o	o	o	o
5	M(S)F5	o	o	o	o	X	o	o
5	M(S)F4	o	o	o	X	o	o	o
5	M(S)F3	o	o	X	o	o	o	o
5	M(S)F2	o	X	o	o	o	o	o
4	M(S)F4	o	o	o	X	o	o	o
4	M(S)F3	o	o	X	o	o	o	o
4	M(S)F2	o	X	o	o	o	o	o
3	M(S)F3	o	o	X	o	o	o	o
3	M(S)F2	o	X	o	o	o	o	o
2	M(S)F2	o	X	o	o	o	o	o
NO OF POLES	X = MIDDLE FLANGE POSITION	1	2	3	4	5	6	7
								

**Graph**



**Graph**

