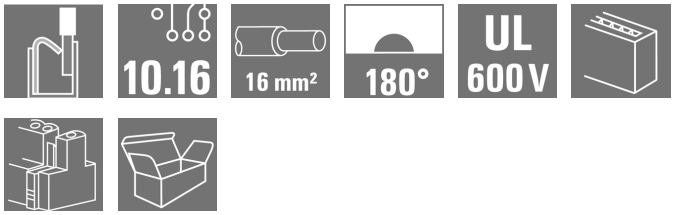
OMNIMATE Power - series BU/SU 10.16
BUF 10.16IT/03/180MF3 AG BK BX

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

Product image



Abbildung ähnlich



Device connectivity | OMNIMATE® Power BUF 10.16 PUSH IN PCB connector, 16mm², with wire-ready function

- PUSH IN technology with settable wire-ready contact point simplifies the connection of stranded wires without wire-end ferrules and wires with particularly rigid insulation
- Direct and tool-free connection of solid wires and wires with crimped wire-end ferrules for fast and safe wiring
- Single-hand operation of the plug-in connector and automatic connection thanks to the middle flange with snap-on mechanism and optionally with additional screw fastening

General ordering data

Type	BUF 10.16IT/03/180MF3 AG BK BX
Order No.	2493190000
Version	PCB plug-in connector, female plug, 10.16 mm, No. of poles: 3, 180°, PUSH IN with actuator, Clamping range, max. : 16 mm², Box
GTIN (EAN)	4050118502770
Qty.	28 pc(s).
Product data	IEC: 1000 V / 76 A / 2.5 - 16 mm² UL:
Packaging	Box

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Technical data

Dimensions and weights

Net weight	42.62 g

system parameters

Product family	OMNIMATE Power - series BU/SU 10.16	Type of connection	Field connection
Wire connection method	PUSH IN with actuator	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	30.48 mm
L1 in inches	1.2 inch	Number of rows	1
Pin series quantity	1	Rated cross-section	16 mm²
Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch	Touch-safe protection acc. to DIN VDE 0470	IP 20
Can be coded	Yes	Stripping length	18 mm
Actuating force actuating element, max.	120 N	Screwdriver blade	0.8 x 4.0
Screwdriver blade standard	DIN 5264	Plugging cycles	25
Plugging force/pole, max.	15 N	Pulling force/pole, max.	15 N

Material data

Insulating material	PA GF	Colour	black
Colour of operational elements	red, grey	Material of operational elements	PA 66/6, PBT
Colour chart (similar)	RAL 9011	Insulating material group	II
CTI	≥ 400	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.	120 °C

Conductors suitable for connection

Clamping range, min.	2.5 mm²
Clamping range, max.	16 mm²
Wire connection cross section AWG, min.	AWG 12
Wire connection cross section AWG, max.	AWG 4
Solid, min. H05(07) V-U	2.5 mm²
Solid, max. H05(07) V-U	10 mm²
Stranded, min. H07V-R	10 mm²
Stranded, max. H07V-R	16 mm²
Flexible, min. H05(07) V-K	2.5 mm²
Flexible, max. H05(07) V-K	16 mm²
w. plastic collar ferrule, DIN 46228 pt 4, min.	2.5 mm²
w. plastic collar ferrule, DIN 46228 pt 4, max.	16 mm²
w. wire end ferrule, DIN 46228 pt 1, min	2.5 mm²
w. wire end ferrule, DIN 46228 pt 1, max.	16 mm²

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Clampable conductor	Cross-section for conductor connection	Type	fine-wired	
		nominal	2.5 mm²	
	AEH	Stripping length	nominal	20 mm
		Stripping length	nominal	18 mm
	Cross-section for conductor connection	Type	fine-wired	
		nominal	4 mm²	
	AEH	Stripping length	nominal	20 mm
		Stripping length	nominal	18 mm
	Cross-section for conductor connection	Type	fine-wired	
		nominal	6 mm²	
	AEH	Stripping length	nominal	20 mm
		Stripping length	nominal	18 mm
	Cross-section for conductor connection	Type	fine-wired	
		nominal	10 mm²	
	AEH	Stripping length	nominal	21 mm
		Stripping length	nominal	18 mm
	Cross-section for conductor connection	Type	fine-wired	
		nominal	16 mm²	
	AEH	Stripping length	nominal	21 mm
		Stripping length	nominal	18 mm
Max. clamping range	16 mm²			

Rated data acc. to IEC

Rated current, min. no. of poles (Tu=20°C)	76 A	Rated current, max. no. of poles (Tu=20°C)	71 A
Rated current, min. no. of poles (Tu=40°C)	70 A	Rated current, max. no. of poles (Tu=40°C)	62 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	8 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 with 800A		

Packing

Packaging	Box	VPE length	358 mm
VPE width	186 mm	VPE height	74 mm

Classifications

ETIM 3.0	EC001284	ETIM 4.0	EC002637
ETIM 5.0	EC002637	ETIM 6.0	EC002637
eClass 6.2	27-26-07-04	eClass 9.0	27-44-04-02
eClass 9.1	27-44-04-02		

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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.

Downloads

Approval/Certificate/Document of Conformity	Declaration of the Manufacturer
Engineering Data	STEP
Motion controllers white paper	Download Whitepaper
User Documentation	Assembly instructions PUSH IN connector with actuator –BUF 10.16 IT Operating Instruction BUF QR-Code product handling video
White Paper UL 600 V	Download Whitepaper
White Paper wire connection	Download Whitepaper

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Drawings

Dimensional drawing

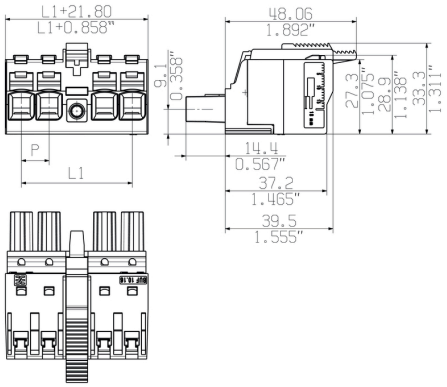
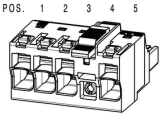


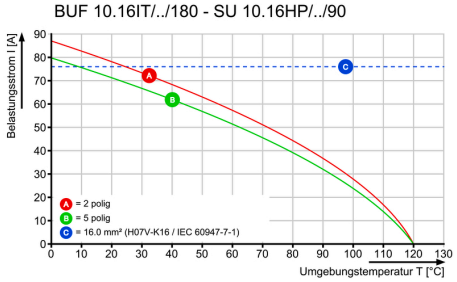
Abbildung ähnlich

Connection diagram

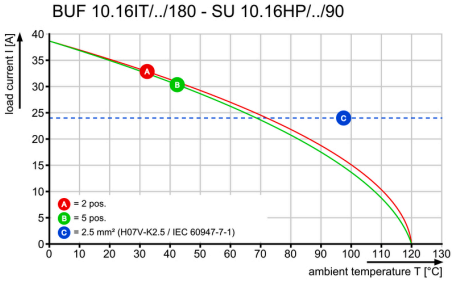
4	M(S)F4	o	o	o	X	o
4	M(S)F3	o	o	X	o	o
4	M(S)F2	o	X	o	o	o
3	M(S)F3	o	o	X	o	
3	M(S)F2	o	X	o	o	
2	M(S)F2	o	X	o		
NO OF POLES	X = MIDDLE FLANGE POSITION	1	2	3	4	5



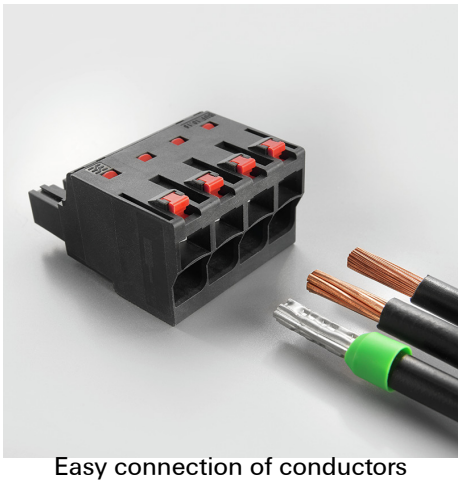
Graph



Graph

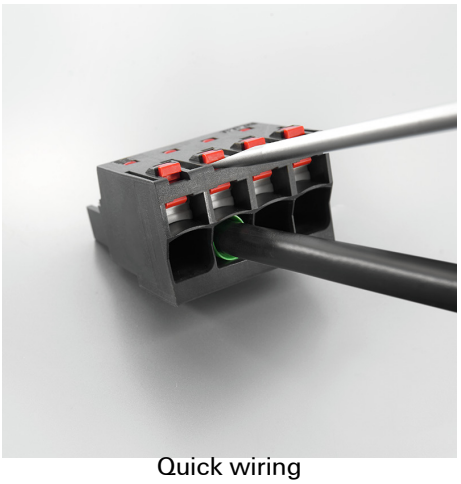


Product benefits



Easy connection of conductors
WIRE READY

Product benefits



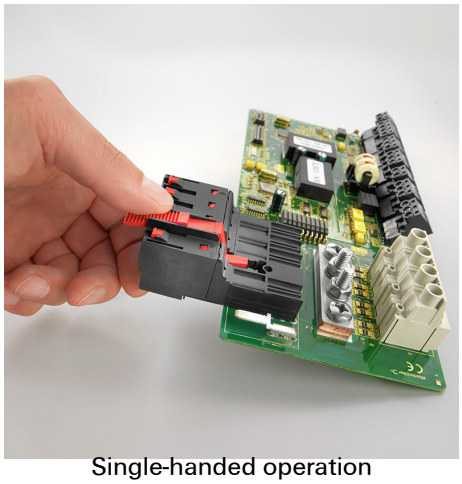
Quick wiring

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Drawings

Product benefits



Single-handed operation
Automatic latching