

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Product image



















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

Including pre-assembled pluggable shield connection for large area shielding in your application.

Directly during the plug-in process itself, the shield connection is attached vibration-proof to the contact area of the metal housing.

General ordering data

Version	PCB plug-in connector, female plug, 10.16 mm,
	Number of poles: 3, 180°, PUSH IN with actuator,
	Clamping range, max. : 16 mm ²
Order No.	<u>2627730000</u>
Туре	BUF 10.16IT/03/180MF3SH180 AG BK BX
GTIN (EAN)	4050118631722
Qty.	20 pc(s).
Product data	IEC: 1000 V / 76 A / 2.5 - 16 mm ²
	UL: 600 V / 34 A / AWG 12 - AWG 6



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Technical data

Dimensions and weights

Net weight	0 g	

System Parameters

Product family	OMNIMATE Power - series	Type of connection	
	BU/SU 10.16		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°
Number of poles	3	L1 in mm	30.48 mm
L1 in inches	1.2 inch	Pin series quantity	1
Rated cross-section		Touch-safe protection acc. to DIN VDE	
	16 mm²	57 106	Safe from finger touch
Touch-safe protection acc. to DIN	VDE	Can be coded	
0470	IP 20		Yes
Stripping length	18 mm	Screwdriver blade	0.8 x 4.0
Screwdriver blade standard	DIN 5264	Plugging cycles	≤ 50
Plugging force/pole, max.	15 N	Pulling force/pole, max.	15 N

Material data

Insulating material	PA GF	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	II
Comparative Tracking Index (CTI)	≥ 400	Insulation strength	≥ 10 ⁸ Ω
UL 94 flammability rating	V-0	Contact material	Copper alloy
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.	120 °C		

Conductors suitable for connection

Clamping range, min.	2.5 mm ²
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 mm ²
Solid, max. H05(07) V-U	10 mm ²
Stranded, min. H07V-R	10 mm ²
Stranded, max. H07V-R	16 mm²
Flexible, min. H05(07) V-K	2.5 mm ²
Flexible, max. H05(07) V-K	16 mm ²
w. plastic collar ferrule, DIN 46228 pt 4 min.	4, 2.5 mm²
w. plastic collar ferrule, DIN 46228 pt 4 max.	4, 16 mm²
w. wire end ferrule, DIN 46228 pt 1, min.	2.5 mm ²
w. wire end ferrule, DIN 46228 pt 1, max.	16 mm²



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Clampable conductor	Cross-section for conductor connection	Туре	fine-wired
		nominal	2.5 mm ²
	wire end ferrule	Stripping length	nominal 20 mm
		Recommended wire- end ferrule	H2,5/25D BL
		Stripping length	nominal 18 mm
		Recommended wire- end ferrule	H2,5/18
	Cross-section for conductor connection	Туре	fine-wired
		nominal	4 mm ²
	wire end ferrule	Stripping length	nominal 20 mm
		Recommended wire- end ferrule	H4,0/26D GR
		Stripping length	nominal 18 mm
		Recommended wire- end ferrule	H4,0/18
	Cross-section for conductor connection	Туре	fine-wired
		nominal	6 mm ²
	wire end ferrule	Stripping length	nominal 20 mm
		Recommended wire- end ferrule	H6,0/26 SW
		Stripping length	nominal 18 mm
		Recommended wire- end ferrule	H6.0/18
	Cross-section for conductor connection	Туре	fine-wired
		nominal	10 mm ²
	wire end ferrule	Stripping length	nominal 21 mm
		Recommended wire- end ferrule	H10,0/28 EB
		Stripping length	nominal 18 mm
		Recommended wire- end ferrule	H10,0/18
	Cross-section for conductor connection	Туре	fine-wired
		nominal	16 mm ²
	wire end ferrule	Stripping length	nominal 21 mm
		Recommended wire- end ferrule	H16,0/28 GN
		Stripping length	nominal 18 mm
		Recommended wire- end ferrule	H16,0/18
Reference text	Length of ferrules is to be chosen depending	on the product and the rate	d voltage.

Rated data acc. to IEC

Rated current, min. number of poles (Tu=20°C)	76 A	Rated current, max. number of poles (Tu=20°C)	71 A
Rated current, min. number of poles (Tu=40°C)	70 A	Rated current, max. number 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		



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Technical data

Rated data acc. to UL 1059

Institute (cURus)			
institute (conus)	c SL [®] us	Certificate No. (cURus)	E60693
Rated voltage (Use group B / UL 1059)	600 V	Rated voltage (Use group C / UL 1059)	600 V
Rated current (Use group B / UL 1059)	34 A	Rated current (Use group C / UL 1059)	
Wire cross-section, AWG, min.	AWG 12	Wire cross-section, AWG, max.	AWG 6
Reference to approval values	Specifications are maximum values, details - see approval certificate.		
Packing			
VPE length	352 mm	VPE width	162 mm
VPE height	105 mm	VFL WIGHT	102 111111
Classifications	100 11111		
ETIM 6.0	EC002637	ETIM 7.0	EC002637
ETIM 8.0	EC002637	ECLASS 9.0	27-44-04-02
ECLASS 9.1	27-44-04-02	ECLASS 10.0	27-44-04-02
ECLASS 11.0	27-46-02-01		
Important note			
IPC conformity		eloped, manufactured and delivered according	international recognized
		y with the assured properties in the data sheet lass 2". Further claims on the products can be ϵ	resp. fulfill decorative propertie
Notes			resp. fulfill decorative propertie
Notes	in accordance with IPC-A-610 °C • Additional colours on request		resp. fulfill decorative propertie
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Notes	Additional colours on request Rated current related to rated	lass 2". Further claims on the products can be excross-section & min. No. of poles.	resp. fulfill decorative propertie
Notes	 in accordance with IPC-A-610 °C Additional colours on request Rated current related to rated Wire end ferrule with plastic colours 	lass 2". Further claims on the products can be excross-section & min. No. of poles.	resp. fulfill decorative propertie
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UL File Number Search

E60693



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Technical data

Downloads

Catalogues in PDF-format



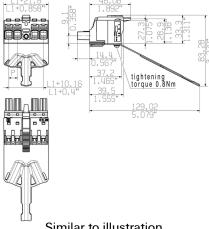
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Drawings

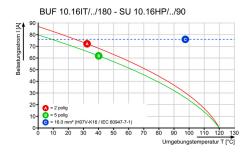
Dimensional drawing

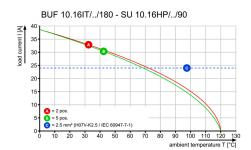


Similar to illustration

Graph

Graph





Product benefits

Product benefits



Easy connection of conductors **WIRE READY**



Quick wiring



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Mating connector (fully pluggable)

SU 10.16IT 270MSF



Male header with middle solder flange fastening in 10.16 pitch for 400-V IT systems according to IEC 61800-5-1. UL approval in compliance with UL840 (600 V) when using leading contact. When used together with the BUZ 10.16 IT, they comply with the expanded requirements for 5.5 mm of touch protection with IT systems (400 V relative to earth), according to IEC 61800-5-1. With its isolated pin tips, the mating profile ensures that more than 1 mm of touch safety is present (also without a socket block) with a finger pressure of 20 N. The middle-flange interlock feature decreases the space required by one pitch width when compared to other standard solutions.

Available on request with screw flange or without flange.

General ordering data

Туре	SU 10.16IT/03/270MSF3 3	Version	Product data
Order No.	<u>2630230000</u>	PCB plug-in connector, male header, 10.16 mm, Number of poles: 3, $$	IEC: / 78.3 A
GTIN (EAN)	4050118633900	Solder pin length (I): 3.5 mm, black	UL:
Qty.	42 pc(s).		

SU 10.16IT 90MSF



Male header with middle solder flange fastening in 10.16 pitch for 400-V IT systems according to IEC 61800-5-1. UL approval in compliance with UL840 (600 V) when using leading contact. When used together with the BUZ 10.16 IT, they comply with the expanded requirements for 5.5 mm of touch protection with IT systems (400 V relative to earth), according to IEC 61800-5-1. With its isolated pin tips, the mating profile ensures that more than 1 mm of touch safety is present (also without a socket block) with a finger pressure of 20 N. The middle-flange interlock feature decreases the space required by one pitch width when compared to other standard solutions.

Available on request with screw flange or without flange.

General ordering data

Туре	SU 10.16IT/03/90MSF3 3	Version	Product data
Order No.	<u>2630160000</u>	PCB plug-in connector, male header, 10.16 mm, Number of poles: 3,	IEC: / 78.3 A
GTIN (EAN)	4050118633832	Solder pin length (I): 3.5 mm, black	UL:
Qty.	42 pc(s).		



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Accessories

Slotted screwdriver



Slotted screwdriver with rounded blade SD DIN 5265, ISO 2380/2, output to DIN 5264, ISO 2380/1. ChromTop tip, SoftFinish grip

General ordering data

Type SDS 0.8X4.5X125
Order No. 9009020000
GTIN (EAN) 4032248266883
Oty. 1 pc(s).

Screwdriver, Screwdriver

Coding elements



The pluggable connections for power electronics - optimised for modern drive technologies, e.g. motor starters, frequency converters and servo-controllers.

OMNIMATE Power sets the new standard – with increased safety and innovative solutions such as the pluggable shield, integrated signal contacts and one-handed operation.

The three product lines offer you further advantages:

- Application-oriented scalability: from the compact 4 mm² connector for 29 A (IEC) or 20 A (UL) up to the sturdy 16 mm² connector for 76 A (IEC) or 54 A (UL)
- Unlimited usage up to 1,000 V (IEC) or 600 V (UL)
- A variety of application optimised mounting options

Our Service:

Design your individual connectors simply by using the

General ordering data

Туре	KO BU/SU10.16HP WT	Version	Product data	
Order No.	<u>2592600000</u>	PCB plug-in connector, Accessories, Coding element, Natural, Number	r	
GTIN (EAN)	4050118717389	of poles: 1		
Qty.	50 pc(s).			
Туре	KO BU/SU10.16HP BK	Version	Product data	Packaging
Order No.	<u>1824410000</u>	PCB plug-in connector, Accessories, Coding element, black, Number		Box
GTIN (EAN)	4032248326716	of poles: 1		



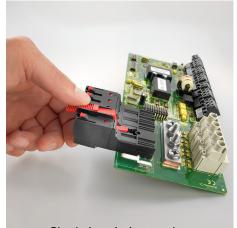
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Drawings

Product benefits



Single-handed operation Automatic latching