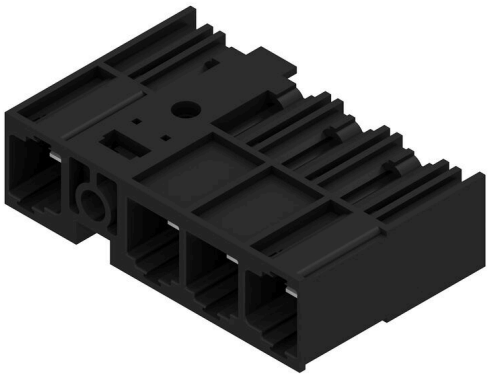
Data sheet

SU 10.16IT/04/270MF4 3.5AG BK BX SO

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Product image





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.
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

Version	PCB plug-in connector, male header, Clip-on flange, THT solder connection, 10.16 mm, Number of poles: 4, 90°, Solder pin length (l): 3.5 mm, black
Order No.	2467380000
Type	SU 10.16IT/04/270MF4 3.5AG BK BX SO
GTIN (EAN)	4050118481754
Qty.	36 items
Product data	IEC: 1000 V / 78.3 A UL: 300 V / 60 A
Delivery status	Discontinued
Available until	2025-08-31T00:00:00+02:00

Creation date 18.02.2026 06:10:22 MEZ

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Technical data

Approvals

Approvals	
ROHS	Conform
UL File Number Search	UL Website
Certificate No. (cURus)	E60693

Dimensions and weights

Net weight	17.8 g

Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption
REACH SVHC	No SVHC above 0.1 wt%

System specifications

Product family	OMNIMATE Power - series BU/SU 10.16HP			
Type of connection	Board connection			
Mounting onto the PCB	THT solder connection			
Pitch in mm (P)	10.16 mm			
Pitch in inches (P)	0.400 "			
Outgoing elbow	90°			
Number of poles	4			
Number of solder pins per pole	3			
Solder pin length (l)	3.5 mm			
Solder pin length tolerance	+0.1 / -0.3 mm			
Solder pin dimensions	1.2 x 1.1 mm			
Solder pin dimensions = d tolerance	+0.1 / -0.1 mm			
Solder eyelet hole diameter (D)	1.6 mm			
Solder eyelet hole diameter tolerance (D)	+ 0,1 mm			
Pin series quantity	2			
Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch, plugged			
Touch-safe protection acc. to DIN VDE 0470	IP20 plugged			
Volume resistance	2.00 mΩ			
Can be coded	Yes			
Tightening torque	Torque type	Mounting screw, PCB		
	Usage information	Thickness	min.	1.44 mm
			max.	1.76 mm
		Tightening torque	min.	0.25 Nm
			max.	0.3 Nm
		Recommended screw	Part number	SU 10.16 BFSC P 35X 14
		Thickness	min.	2.88 mm
			max.	3.52 mm
		Tightening torque	min.	0.2 Nm
			max.	0.25 Nm
		Recommended screw	Part number	SU 10.16 BFSC P 35X 14
		Thickness	min.	1.44 mm
			max.	3.52 mm

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Tightening torque	min.	0.8 Nm	
	max.	0.9 Nm	
Recommended screw	Part number	SU 10.16 BFSC S 35X12	

Material data

Insulating material	PBT GF	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	IIIa
Comparative Tracking Index (CTI)	≥ 200	Moisture Level (MSL)	
UL 94 flammability rating	V-0	Contact material	Cu-alloy
Layer structure of solder connection	≥ 3 µm Ag	Layer structure of plug contact	≥ 3 µm
Storage temperature, min.	-40 °C	Storage temperature, max.	70 °C
Operating temperature, min.	-50 °C	Operating temperature, max.	120 °C
Temperature range, installation, min.	-25 °C	Temperature range, installation, max.	120 °C

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	1000 V
Rated voltage for surge voltage class / pollution degree III/2	1000 V	Rated voltage for surge voltage class / pollution degree III/3	690 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
Creepage distance, min.	10.5 mm	Clearance, min.	8.9 mm

Rated data acc. to CSA

Rated voltage (Use group B / CSA)	300 V	Rated voltage (Use group C / CSA)	300 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

Rated data acc. to UL 1059

Institute (cURus)	CURUS	Certificate No. (cURus)	E60693
Rated voltage (Use group B / UL 1059)	300 V	Rated voltage (Use group C / UL 1059)	300 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
Creepage distance, min.	10.5 mm	Clearance distance, min.	8.9 mm
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

Packing

VPE length	0.00 mm	VPE width	0.00 mm
VPE height	0.00 mm		

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.

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Technical data

	fulfill decorative properties in accordance with IPC-A-610 "Class 2". Further claims on the products can be evaluated on request.
Notes	• Additional variants on request • Rated current related to rated cross-section & min. No. of poles. • 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. • In accordance with IEC 61984, OMNIMATE-connectors are connectors without breaking capacity (COC). During designated use, connectors are not allowed to be engaged or disengaged when live or under load • Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months

Classifications

ETIM 8.0	EC002637	ETIM 9.0	EC002637
ETIM 10.0	EC002637	ECLASS 14.0	27-46-02-01
ECLASS 15.0	27-46-02-01		

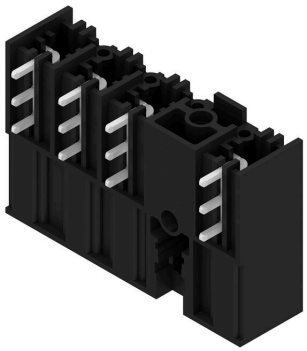
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Drawings

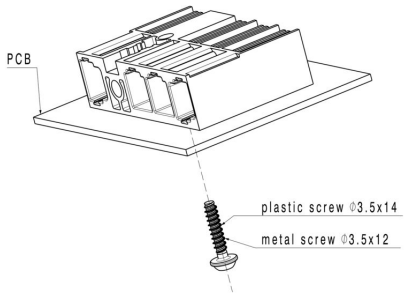
Product image



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	
5	M(S)F4	o	o	o	X	o	o	
5	M(S)F3	o	o	X	o	o	o	
5	M(S)F2	o	X	o	o	o	o	
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	6	7

Example of use



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Accessories

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 product configurator.

General ordering data

Type	KO BU/SU10.16HP BK	Version
Order No.	1824410000	PCB plug-in connector, Accessories, Coding element, black, Number
GTIN (EAN)	4032248326716	of poles: 1
Qty.	50 ST	
Type	KO BU/SU10.16HP WT	Version
Order No.	2592600000	PCB plug-in connector, Accessories, Coding element, Natural, Number
GTIN (EAN)	4050118717389	of poles: 1
Qty.	50 ST	

Mounting screw

General ordering data

Type	SU 10.16 BFSC P 35X 14	Version
Order No.	2812340000	PCB plug-in connector, Mounting screw
GTIN (EAN)	4064675295495	
Qty.	50 ST	
Type	SU 10.16 BFSC S 35X12	Version
Order No.	2812290000	PCB plug-in connector, Mounting screw
GTIN (EAN)	4064675294955	
Qty.	50 ST	