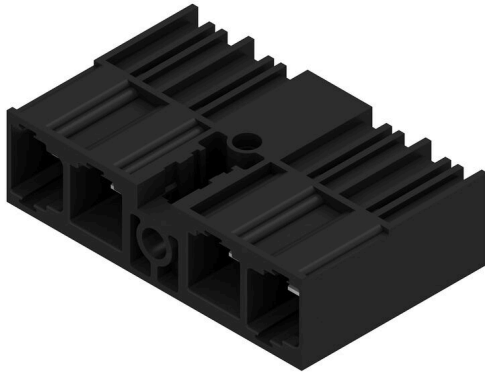


## SU 10.16IT/04/90MF3 3.5AG BK BX SO

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, closed side, Middle flange, THT solder connection, 10.16 mm, Number of poles: 4, 90°, Solder pin length (l): 3.5 mm, silver-plated, black, Box
Order No.	<a href="#">2000440000</a>
Type	SU 10.16IT/04/90MF3 3.5AG BK BX SO
GTIN (EAN)	4050118381962
Qty.	36 items
Product data	IEC: 1000 V / 78.3 A UL: 300 V / 60 A
Packaging	Box

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## Technical data

### Approvals

Approvals



ROHS	Conform
UL File Number Search	<a href="#">UL Website</a>
Certificate No. (cURus)	E60693

### Dimensions and weights

Net weight	17.75 g
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### 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 10.16IT				
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	<a href="#">SU 10.16 BFSC P 35X 14</a>	
			Thickness	min.	2.88 mm
		max.		3.52 mm	
		Tightening torque	min.	0.2 Nm	
			max.	0.25 Nm	
		Recommended screw	Part number	<a href="#">SU 10.16 BFSC P 35X 14</a>	
			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	<a href="#">SU 10.16</a> <a href="#">BFSC S</a> <a href="#">35X12</a>

**Material data**

Insulating material	PA GF	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	I
Comparative Tracking Index (CTI)	≥ 600	Moisture Level (MSL)	
UL 94 flammability rating	V-0	Contact material	Cu-alloy
Contact surface	silver-plated	Layer structure of solder connection	≥ 3 µm Ag
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	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**

Packaging	Box	VPE length	353.00 mm
VPE width	136.00 mm	VPE height	49.00 mm

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**Technical data**

**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"> <li>• Additional variants on request</li> <li>• Rated current related to rated cross-section &amp; min. No. of poles.</li> <li>• P on drawing = pitch</li> <li>• 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.</li> <li>• 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.</li> <li>• 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</li> <li>• Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months</li> </ul>

**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		

