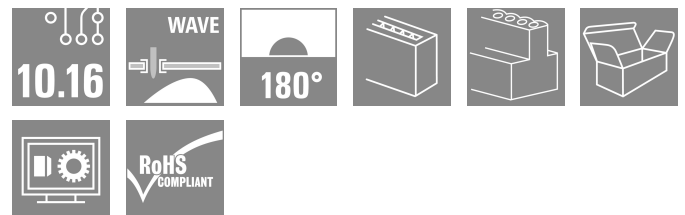
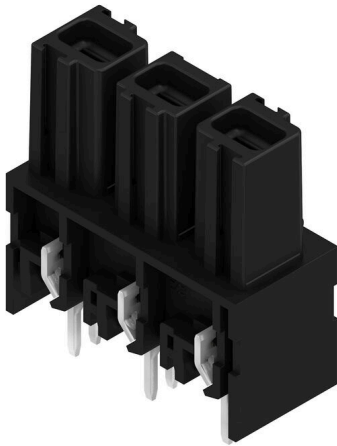


## BUL 10.16HP/03/180 4.5AG BK BX SO

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

www.weidmueller.com

### Product image



OMNIMATE Power BU / SU 10.16HP - the 50 kVA power class

More current for higher performance.

Top of the class in today's connector systems – the OMNIMATE Power SU / BUZ 10.16HP. They feature a very durable contact system which makes it a pluggable power transmission solution with maximum load reserves. HP stands for High Performance – performance exemplified by a long-term usage temperature of 120°C. This custom, pluggable solution is suitable for all applications that must meet 600 V UL or 1,000 V (IEC) with up to 76 A (IEC) and 54 A (UL).

### General ordering data

Version	PCB plug-in connector, female header, closed side, THT solder connection, 10.16 mm, Number of poles: 3, 180°, Solder pin length (l): 4.5 mm, silver-plated, black, Box
Order No.	<a href="#">1341270000</a>
Type	BUL 10.16HP/03/180 4.5AG BK BX SO
GTIN (EAN)	4050118145472
Qty.	50 items
Product data	IEC: 1000 V / 76 A UL: 300 V / 57 A
Packaging	Box

**BUL 10.16HP/03/180 4.5AG BK BX SO**

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

www.weidmueller.com

**Technical data****Approvals**

Approvals



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

**Dimensions and weights**

Net weight	11.12 g
------------	---------

**Environmental Product Compliance**

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

**System Parameters**

Product family	OMNIMATE Power - series BU/SU 10.16	Type of connection	Board connection
Pitch in mm (P)	10.16 mm	Pitch in inches (P)	0.400 "
Number of poles	3	L1 in mm	20.32 mm
L1 in inches	0.800 "	Number of rows	1
Pin series quantity	1	Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch
Protection degree	IP20	Volume resistance	2.00 mΩ
Can be coded	Yes	Plugging force/pole, max.	12.5 N
Pulling force/pole, max.	11 N		

**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.	130 °C	Temperature range, installation, min.	-25 °C
Temperature range, installation, max.	130 °C		

**Rated data acc. to IEC**

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. number of poles (Tu=20°C)	76 A
Rated current, max. number of poles (Tu=20°C)	76 A	Rated current, min. number of poles (Tu=40°C)	69 A
Rated current, max. number of poles (Tu=40°C)	62.5 A	Rated voltage for surge voltage class / pollution degree II/2	1000 V
Rated voltage for surge voltage class / pollution degree III/2	630 V	Rated voltage for surge voltage class / pollution degree III/3	630 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	6 kV
Rated impulse voltage for surge voltage class/ contamination degree III/3	6 kV	Creepage distance, min.	0 mm

## BUL 10.16HP/03/180 4.5AG BK BX SO

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

www.weidmueller.com

### Technical data

Clearance, min. 0 mm

#### Rated data acc. to CSA

Institute (CSA)	CSA	Certificate No. (CSA)	200039-121690
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)	57 A
Rated current (Use group C / CSA)	57 A	Rated current (Use group D / CSA)	5 A
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

#### Rated data acc. to UL 1059

Institute (UR)	UR	Certificate No. (UR)	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)	57 A
Rated current (Use group C / UL 1059)	57 A	Rated current (Use group D / UL 1059)	5 A
Creepage distance, min.	11.2 mm	Clearance distance, min.	8.4 mm
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

#### Packing

Packaging	Box	VPE length	37.00 mm
VPE width	134.00 mm	VPE height	180.00 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. 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>• 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		

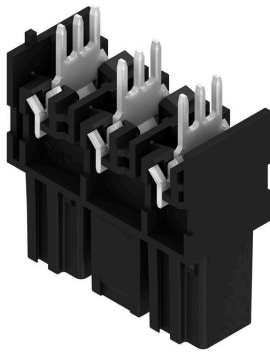
**BUL 10.16HP/03/180 4.5AG BK BX SO**

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

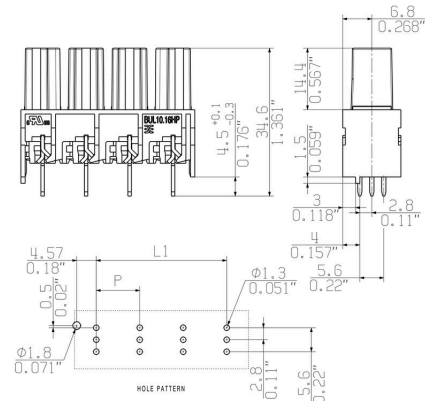
www.weidmueller.com

Drawings

Product image

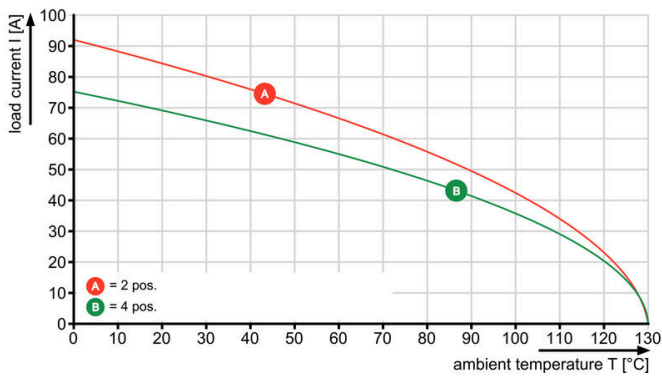


Dimensioned drawing



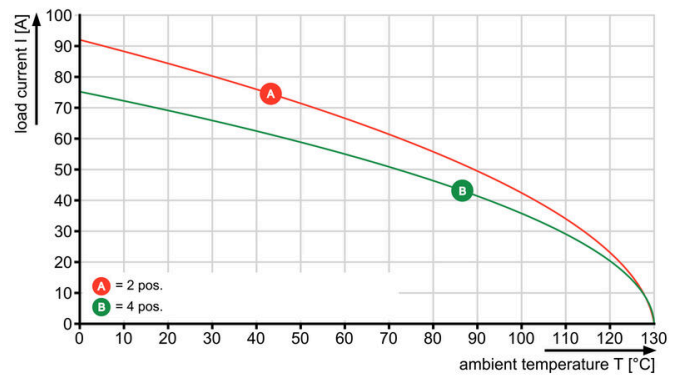
Graph

BUL 10.16HP/./180 - SU 10.16HP/./180



Graph

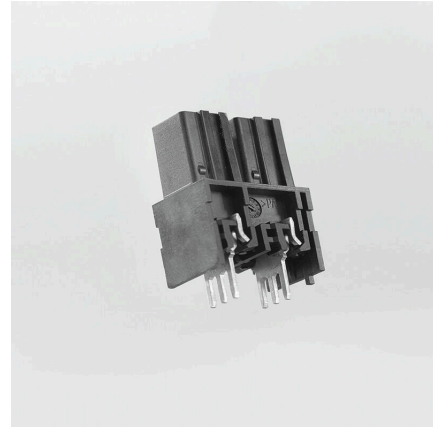
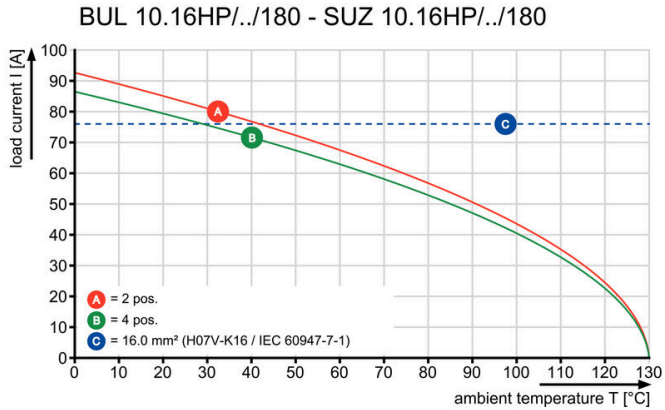
BUL 10.16HP/./180 - SU 10.16HP/./180



**Drawings**

**Graph**

**Product benefits**

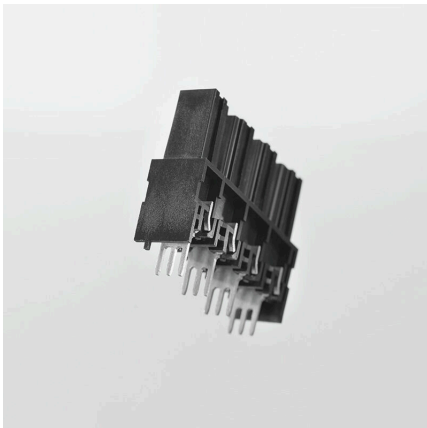


High process reliability 100%  
 torsion-proof on the circuit board

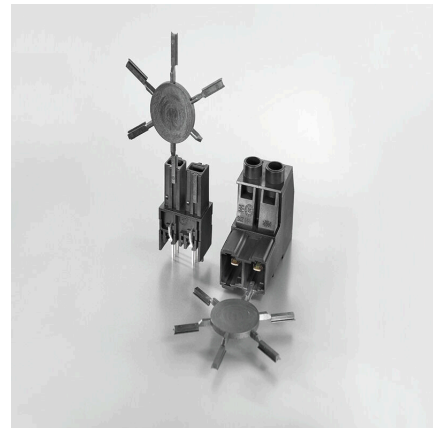
High process reliability 100%  
 torsion-proof on the circuit board

**Product benefits**

**Product benefits**



High performance Max. current with max. stability



Cross plugging impossible Individual coding

**Product benefits**



Only connectors with the same number of poles fit 100% mismatch protection

## BUL 10.16HP/03/180 4.5AG BK BX SO

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

[www.weidmueller.com](http://www.weidmueller.com)

## 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 mm<sup>2</sup> connector for 29 A (IEC) or 20 A (UL) up to the sturdy 16 mm<sup>2</sup> 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.	<a href="#">1824410000</a>	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.	<a href="#">2592600000</a>	PCB plug-in connector, Accessories, Coding element, Natural, Number	
GTIN (EAN)	4050118717389	of poles: 1	
Qty.	50 ST		

## BUL 10.16HP/03/180 4.5AG BK BX SO

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

www.weidmueller.com

## Counterpart

### SU 10.16HP/180G



Single-row, high-current male header, for side-by-side mounting without sacrificing any poles, or with patented flange for fast locking without tools. Maximum connection and operating reliability thanks to a mating profile that prevents incorrect connection, with unique coding diversity, additional fastening and integrable positioning aid. 3.5 mm pin length is optimised for wave soldering, plug-in direction 180° to solder pins.

#### General ordering data

Type	SU 10.16HP/03/180G 3.5A...	Version
Order No.	<a href="#">1813420000</a>	PCB plug-in connector, male header, closed side, THT solder connection, 10.16 mm, Number of poles: 3, 180°, Solder pin length
GTIN (EAN)	4032248297610	(l): 3.5 mm, silver-plated, black, Box
Qty.	60 ST	

### SU 10.16HP/270G

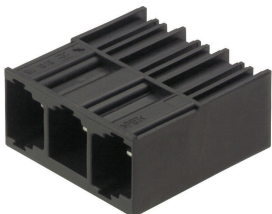


Single-row, high-performance male header for side-by-side mounting without sacrificing any poles or with patented flange for fast fixing without tools. Maximum connection and operating reliability thanks to a mating profile that prevents incorrect connection, with unique coding diversity and additional fastening in the flange. 3.5 mm pin length is optimised for wave soldering, plug-in direction 270° to solder pins.

#### General ordering data

Type	SU 10.16HP/03/270G 3.5A...	Version
Order No.	<a href="#">1813500000</a>	PCB plug-in connector, male header, closed side, THT solder connection, 10.16 mm, Number of poles: 3, 270°, Solder pin length
GTIN (EAN)	4032248297719	(l): 3.5 mm, silver-plated, black, Box
Qty.	60 ST	

### SU 10.16HP/90G



Single-row, high-current male header, for side-by-side mounting without sacrificing any poles, or with patented flange for fast locking without tools. Maximum connection and operating reliability thanks to a mating profile that prevents incorrect connection, with unique coding diversity and additional fastening in the flange. 3.5 mm pin length is optimised for wave soldering, plug-in direction 90° to solder pins.

#### General ordering data

Type	SU 10.16HP/03/90G 3.5AG...	Version
Order No.	<a href="#">1813340000</a>	PCB plug-in connector, male header, closed side, THT solder connection, 10.16 mm, Number of poles: 3, 90°, Solder pin length (l):
GTIN (EAN)	4032248297535	3.5 mm, silver-plated, black, Box
Qty.	60 ST	

## BUL 10.16HP/03/180 4.5AG BK BX SO

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

www.weidmueller.com

## Counterpart

Type	SU 10.16HP/03/90G 3.5AG...	Version
Order No.	<a href="#">1026070000</a>	PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN)	4032248750504	connection, 10.16 mm, Number of poles: 3, 90°, Solder pin length (l):
Qty.	50 ST	3.5 mm, silver-plated, Signal green, Box
Type	SU 10.16HP/03/90G 3.5AG...	Version
Order No.	<a href="#">1026080000</a>	PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN)	4032248751013	connection, 10.16 mm, Number of poles: 3, 90°, Solder pin length (l):
Qty.	50 ST	3.5 mm, silver-plated, orange, Box
Type	SU 10.16HP/03/90G 3.5AG...	Version
Order No.	<a href="#">1969430000</a>	PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN)	4032248671939	connection, 10.16 mm, Number of poles: 3, 90°, Solder pin length (l):
Qty.	60 ST	3.5 mm, Traffic grey (RAL), Box