

#### SU 10.16HP/09/90G 3.5AG BK BX



Weidmüller Interface GmbH & Co. KG

1

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

#### **Product image**

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**

Version	PCB plug-in connector, male header, closed side, THT solder connection, 10.16 mm, Number of poles: 9, 90°, Solder pin length (I): 3.5 mm, sil- ver-plated, black, Box
Order No.	<u>1813400000</u>
Туре	SU 10.16HP/09/90G 3.5AG BK BX
GTIN (EAN)	4032248297597
Qty.	18 items
Product data	IEC: 1000 V / 78.3 A UL: 300 V / 60 A
Packaging	Вох

Catalogue status / Drawings



## SU 10.16HP/09/90G 3.5AG BK BX



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

# **Technical data**

Approval	S
----------	---

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

#### **Dimensions and weights**

Net weight 38.55 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	9	Number of solder pins per pole	3
Solder pin length (I)	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
L1 in mm	81.28 mm	L1 in inches	3.200 "
Number of rows	1	Pin series quantity	1
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

#### **Material data**

black
roup IIIa
)
Cu-alloy
lder connection ≥ 3 µm Ag
, min40 °C
ıre, min50 °C
nstallation, min25 °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

Creation date 26.11.2025 07:43:17 MEZ

Catalogue status / Drawings 2





## SU 10.16HP/09/90G 3.5AG BK BX

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

# **Technical data**

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	352.00 mm
VPE width	136.00 mm	VPE height	49.00 mm
Important note			
IPC conformity	recognized standards and no	e developed, manufactured and delivered a orms and comply with the assured properti n accordance with IPC-A-610 "Class 2". Fu	ies in the data sheet resp.
Notes	<ul> <li>Additional variants on req</li> <li>Rated current related to ra</li> <li>P on drawing = pitch</li> <li>Rated data refer only to the components are to be des</li> </ul>		lication standards.

#### Classifications

			'
ETIM 6.0	EC002637	ETIM 7.0	EC002637
ETIM 8.0	EC002637	ETIM 9.0	EC002637
ETIM 10.0	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	ECLASS 12.0	27-46-02-01
ECLASS 13.0	27-46-02-01	ECLASS 14.0	27-46-02-01
ECLASS 15.0	27-46-02-01		

disengaged when live or under load

70%, 36 months

capacity (COC). During designated use, connectors are not allowed to be engaged or

Long term storage of the product with average temperature of 50 °C and maximum humidity

Catalogue status / Drawings



Drawings

### SU 10.16HP/09/90G 3.5AG BK BX



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Drawings	
Product image	Dimensional drawing





Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

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 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**

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