

**PB-CON 160 S/02/90RFSF AG BK BX**

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

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



- Future-proof design
- Different module sizes
- Simple device integration
- Simple plug-and-play solution – fast replacement of individual modules from a single device network
- Quick and easy installation without tools
- Safe locking of busbar connectors
- Touch-safe construction
- Tolerance compensation in the rail system allows simple mounting of the devices on the panel mounting plate without extreme accuracy
- Uncomplicated UL approval with registered UL components
- Ideal design of size and technical data for typical multi-axis servo amplifiers

**General ordering data**

Version	PCB plug-in connector, female header, Cable gland, Pitch in mm (P): 42.50 mm, Number of poles: 2, 90°, Box
Order No.	<a href="#">2594720000</a>
Type	PB-CON 160 S/02/90RFSF AG BK BX
GTIN (EAN)	4050118607109
Qty.	20 items
Product data	IEC: 1000 V / 160 A UL: 750 V / 160 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)	E196651

**Dimensions and weights**

Net weight	61.7 g
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**Environmental Product Compliance**

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

**System specifications**

Type of connection	Board connection
Mounting onto the PCB	Cable gland
Pitch in mm (P)	42.50 mm
Pitch in inches (P)	1.670 "
Outgoing elbow	90°
Number of poles	2
L1 in mm	42.50 mm
L1 in inches	1.670 "
Number of rows	1
Pin series quantity	1
Touch-safe protection acc. to DIN VDE 0470	IP20 plugged
Protection degree	IP20
Volume resistance	≤5 mΩ
Can be coded	Yes
Plugging force/pole, max.	90 N
Pulling force/pole, max.	65 N

Tightening torque	Torque type	Housing		
	Usage information	Thickness	nominal	2 mm
		Tightening torque	min.	0.5 Nm
			max.	0.7 Nm
		Recommended screw	Part number	<a href="#">PB-CON SF DELTA PT 40X12</a>
Tightening torque	Torque type	PCB		
	Usage information	Thickness	min.	0.8 mm
			max.	3.2 mm
		Tightening torque	min.	1.44 Nm
			max.	1.76 Nm
Tightening torque		Recommended screw	Part number	<a href="#">PB-CON IKSC M4X8 A2</a>

**Material data**

Insulating material	PA GF	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	II

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## Technical data

Comparative Tracking Index (CTI)	$\geq 400$
UL 94 flammability rating	V-0
Contact surface	silver-plated
Storage temperature, min.	-40 °C
Operating temperature, min.	-50 °C
Temperature range, installation, min.	-20 °C

Moisture Level (MSL)	
Contact material	Cu-alloy
Layer structure of plug contact	4...6 $\mu\text{m}$ Ag
Storage temperature, max.	70 °C
Operating temperature, max.	125 °C
Temperature range, installation, max.	65 °C

## Rated data acc. to IEC

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. number of poles (Tu=20°C)	160 A
Rated current, max. number of poles (Tu=20°C)	160 A	Rated current, min. number of poles (Tu=40°C)	140 A
Rated current, max. number of poles (Tu=40°C)	140 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	800 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.	8 mm	Clearance, min.	5.6 mm

## Rated data acc. to UL 508

Rated voltage	750 V	Rated current	160 A
Creepage distance, min.	11.2 mm	Luftstrecke, min	10.1 mm

## Packing

Packaging	Box	VPE length	301.00 mm
VPE width	211.00 mm	VPE height	52.00 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>IEC-rated current is based on 20 °C ambiente temperature, further values see derating curve</li> <li>UL508-rated current based on 65 °C ambiente temperature and max. 20 devices</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>

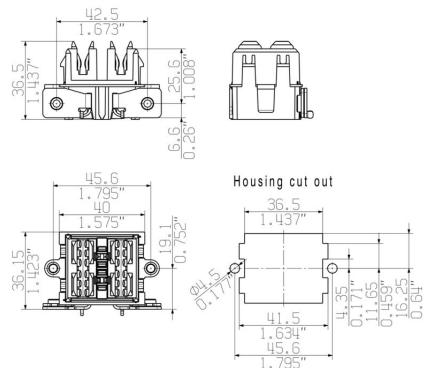
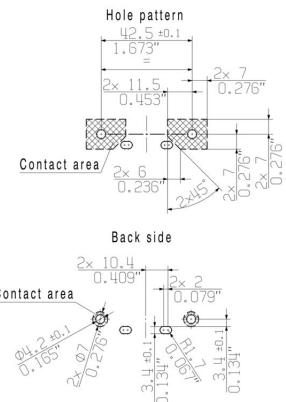
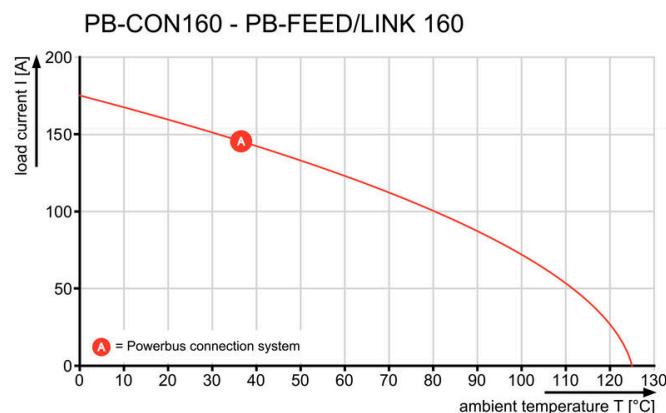
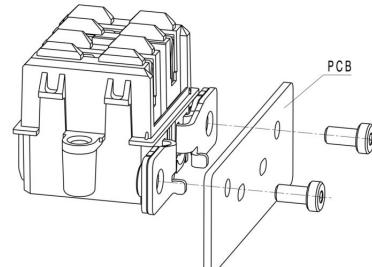
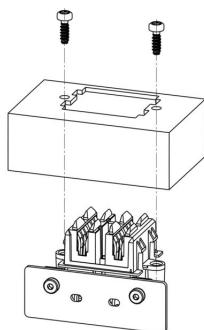
## Classifications

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		

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**Drawings****Dimensional drawing****Dimensional drawing****Graph****Application****Application****Application**