Data sheet

MPS 3/12 S TN B B

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

www.weidmueller.com





General ordering data

Version	PCB plug-in connector, female plug, Pitch in mm (P): 3.50 mm, Number of poles: 12, 180°, Box
Order No.	8000179394
Type	MPS 3/12 S TN B B
Qty.	
Product data	IEC: 320 V / 15 A / 0.34 - 1.5 mm² UL: 300 V / 8 A
Packaging	Box

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Technical data

Dimensions and weights

Depth	20.9 mm	Depth (inches)	0.8228 inch
Height	10 mm	Height (inches)	0.3937 inch
Width	43.5 mm	Width (inches)	1.7126 inch

Temperatures

Ambient temperature	-50 °C...125 °C

Material data

Insulating material	PA 9T	Colour	black
Colour of operational elements	green	Colour chart (similar)	RAL 9011
Insulating material group	I	Comparative Tracking Index (CTI)	≥ 600
Moisture Level (MSL)	1	UL 94 flammability rating	V-0
Contact material	Cu-alloy	Contact surface	tinned
Storage temperature, min.	-25 °C	Storage temperature, max.	55 °C
Operating temperature, min.	-50 °C	Operating temperature, max.	125 °C

Conductors suitable for connection

Conductor cross-section (rated connection), min.	0.34 mm²	Conductor cross-section (rated connection), max.	1.5 mm²
Wire connection cross section AWG, min.	AWG 22	Wire connection cross section AWG, max.	AWG 14
Solid, min. H05(07) V-U	0.34 mm²	Solid, max. H05(07) V-U	1.5 mm²
Flexible, min. H05(07) V-K	0.34 mm²	Flexible, max. H05(07) V-K	1.5 mm²
w. plastic collar ferrule, DIN 46228 pt 4, min.	0.34 mm²	w. plastic collar ferrule, DIN 46228 pt 4, max.	1 mm²
w. wire end ferrule, DIN 46228 pt 1, min.	0.34 mm²	w. wire end ferrule, DIN 46228 pt 1, max.	1.5 mm²
Outer diameter (insulation), max.	4.00 mm		

Rated data acc. to IEC

Rated current at min. number of poles (Tu = 20 °C)	15 A	Rated current, max. number of poles (Tu=20°C)	12 A
Rated current, min. number of poles (Tu=40°C)	13 A	Rated current at max. number of poles (Tu = 40 °C)	11 A
Rated voltage for surge voltage class (pollution degree II/2)	320 V	Rated voltage for surge voltage class (pollution degree III/2)	160 V
Rated voltage for surge voltage class (pollution degree III/3)	160 V	Rated impulse voltage for surge voltage class (pollution degree II/2)	320 V
Rated impulse voltage for surge voltage class (pollution degree III/2)	2.5 kV	Rated impulse voltage for surge voltage class (contamination degree III/3)	2.5 kV

Rated data acc. to UL 1059

Rated voltage (Use group B / UL 1059)	300 V	Rated voltage (Use group C / UL 1059)	50 V
Rated voltage (Use group D / UL 1059)	300 V	Rated voltage (Use group F / UL 1059)	320 V
Rated current (Use group B / UL 1059)	8 A	Rated current (Use group C / UL 1059)	8 A
Rated current (Use group D / UL 1059)	8 A	Rated current (Use group F / UL 1059)	8 A

Important note

Notes	• Rated current related to rated cross-section & min. No. of poles. • P on drawing = pitch

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Technical data

- 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.
- 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	EC002638	ETIM 9.0	EC002638
ETIM 10.0	EC002638	ECLASS 14.0	27-46-02-02
ECLASS 15.0	27-46-02-02		

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Drawings

