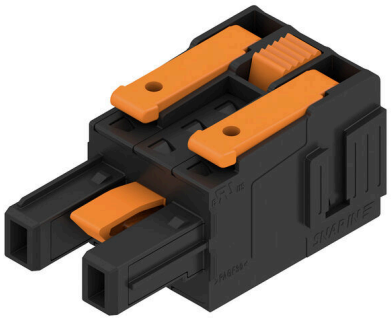
Data sheet

MPS 6/02 S M2 TN B B

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

www.weidmueller.com

Product image





General ordering data

Version	, female plug, Pitch in mm (P): 6.35 mm, Number of poles: 2, 180°, Box
Order No.	3160600000
Type	MPS 6/02 S M2 TN B B
GTIN (EAN)	4099987676854
Qty.	80 items
Product data	IEC: 600 V / 47.2 A / 0.75 - 6 mm² UL: 300 V / 26.5 A
Packaging	Box

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Technical data

Dimensions and weights

Depth	49.02 mm	Depth (inches)	1.9299 inch
Height	25.32 mm	Height (inches)	0.9968 inch
Width	21.85 mm	Width (inches)	0.8602 inch
Net weight	0 g		

System Parameters

Product family	OMNIMATE 4.0	Type of connection	Board connection
Pitch in mm (P)	6.35 mm	Pitch in inches (P)	0.250 mm
Number of poles	2	L1 in mm	6.35 mm
L1 in inches	0.250 "	Number of rows	1
Pin series quantity	1	Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch
Touch-safe protection acc. to DIN VDE 0470	IP 20	Protection degree	IP20
Volume resistance	≤5 mΩ	Plugging cycles	≥ 25
Plugging force per pole, max.	12 N	Pulling force per pole, max.	10 N

Material data

Insulating material	PA 9T	Colour	black
Colour of operational elements	orange	Colour chart (similar)	RAL 9011
Comparative Tracking Index (CTI)	≤ 600	Moisture Level (MSL)	1
UL 94 flammability rating	V-0	Contact base material	CuMg
Contact material	Cu-alloy	Contact surface	tinned
Tinning type	matt	Storage temperature, min.	-40 °C
Storage temperature, max.	70 °C	Operating temperature, min.	-50 °C
Operating temperature, max.	125 °C		

Conductors suitable for connection

Conductor cross-section (rated connection), min.	0.5 mm²	Conductor cross-section (rated connection), max.	6 mm²
Solid, min. H05(07) V-U	0.75 mm²	Solid, max. H05(07) V-U	4 mm²
Flexible, min. H05(07) V-K	0.75 mm²	Flexible, max. H05(07) V-K	6 mm²
w. plastic collar ferrule, DIN 46228 pt 4, min.	0.5 mm²	w. plastic collar ferrule, DIN 46228 pt 4, max.	4 mm²
w. wire end ferrule, DIN 46228 pt 1, min.	0.75 mm²	w. wire end ferrule, DIN 46228 pt 1, max.	4 mm²

Rated data acc. to IEC

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current at min. number of poles (Tu = 20 °C)	47.2 A
Rated current, max. number of poles (Tu=20°C)	41 A	Rated current, min. number of poles (Tu=40°C)	42.5 A
Rated current at max. number of poles (Tu = 40 °C)	36.8 A	Rated voltage for surge voltage class (pollution degree II/2)	600 V
Rated voltage for surge voltage class (pollution degree III/2)	800 V	Rated voltage for surge voltage class (pollution degree III/3)	630 V
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.	11.2 mm	Clearance, min.	11.2 mm

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Technical data

Rated data acc. to UL 1059

Rated voltage (Use group B / UL 1059)	300 V	Rated voltage (Use group D / UL 1059)	600 V
Rated voltage (Use group F / UL 1059)	1000 V	Rated current (Use group B / UL 1059)	26.5 A
Rated current (Use group C / UL 1059)	26.5 A	Rated current (Use group D / UL 1059)	5 A

Important note

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

Product image

