Data sheet

MPS 16/05 S AG B B

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

www.weidmueller.com

Product image





General ordering data

Version	PCB plug-in connector, female plug, Pitch in mm (P): 10.16 mm, Number of poles: 5, 180°, Box
Order No.	3180380000
Type	MPS 16/05 S AG B B
Qty.	
Product data	IEC: 1000 V / 76 A / 4 - 25 mm² UL: 600 V / 60 A
Packaging	Box

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Technical data

Dimensions and weights

Depth	52.7 mm	Depth (inches)	2.0748 inch
Height	33.25 mm	Height (inches)	1.3091 inch
Width	54.3 mm	Width (inches)	2.1378 inch

Temperatures

Ambient temperature	-50 °C...125 °C

Material data

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

Conductors suitable for connection

Solid, min. H05(07) V-U	4 mm²	Solid, max. H05(07) V-U	16 mm²
Flexible, min. H05(07) V-K	4 mm²	Flexible, max. H05(07) V-K	25 mm²
w. plastic collar ferrule, DIN 46228 pt 4, min.	16 mm²	w. plastic collar ferrule, DIN 46228 pt 4, max.	4 mm²
w. wire end ferrule, DIN 46228 pt 1, min.	16 mm²	w. wire end ferrule, DIN 46228 pt 1, max.	4 mm²

Rated data acc. to IEC

Rated current at min. number of poles (Tu = 20 °C)	76 A	Rated current, max. number of poles (Tu=20°C)	71 A
Rated current, min. number of poles (Tu=40°C)	70 A	Rated current at max. number of poles (Tu = 40 °C)	62 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)	1000 V	Rated impulse voltage for surge voltage class (pollution degree II/2)	8 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 with 800A		

Rated data acc. to UL 1059

Rated voltage for surge voltage class (Use group F / UL 1059 / pollution degree III/2)	1000 V	Rated voltage for surge voltage class (Use group F / UL 1059 / pollution degree III/3)	1000 V
Rated voltage for surge voltage class (Use group F / UL 1059 / pollution degree II/2)	1000 V	Rated voltage (Use group B / UL 1059)	600 V
Rated voltage (Use group C / 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 F / UL 1059)	60 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

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