Data sheet

MPS 6/05 S TN 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): 6.35 mm, Number of poles: 5, 180°, Box
Order No.	8000168133
Type	MPS 6/05 S TN B B
GTIN (EAN)	4099987793094
Qty.	48 items
Product data	IEC: 1000 V / 47.2 A / 0.75 - 6 mm² UL: 600 V / 30 A / AWG 20 - AWG 10
Packaging	Box

MPS 6/05 S TN B B

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

www.weidmueller.com

Technical data

Dimensions and weights

Depth	43 mm	Depth (inches)	1.6929 inch
Height	20.5 mm	Height (inches)	0.8071 inch
Width	34.55 mm	Width (inches)	1.3602 inch
Net weight	26.02 g		

System Parameters

Product family	OMNIMATE 4.0	Type of connection	Field connection
Wire connection method	SNAP IN with lever	Pitch in mm (P)	6.35 mm
Pitch in inches (P)	0.250 "	Conductor outlet direction	180°
Number of poles	5	L1 in mm	25.40 mm
L1 in inches	1.000 "	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	Stripping length	11 mm
Plugging cycles	≥ 25	Plugging force per pole, max.	11.25 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
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.	-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

Clampable conductor	Cross-section for conductor connection	nominal	0.5 mm²	
	wire end ferrule	Stripping length	nominal	14 mm
		Recommended wire-end ferrule	H0,5/18 OR	
		Stripping length	nominal	12 mm
		Recommended wire-end ferrule	H0,5/16 OR	
	Cross-section for conductor connection	nominal	0.75 mm²	
	wire end ferrule	Stripping length	nominal	14 mm

Weidmüller

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

www.weidmueller.com

Technical data

		Recommended wire-end ferrule	H0,75/18 W
		Stripping length	nominal 12 mm
		Recommended wire-end ferrule	H0,75/16 W
Cross-section for conductor connection		nominal	1 mm²
wire end ferrule		Stripping length	nominal 15 mm
		Recommended wire-end ferrule	H1,0/18 GE
		Stripping length	nominal 12 mm
		Recommended wire-end ferrule	H1,0/16 GE
Cross-section for conductor connection		nominal	1.5 mm²
wire end ferrule		Stripping length	nominal 15 mm
		Recommended wire-end ferrule	H1,5/18D SW
		Stripping length	nominal 12 mm
		Recommended wire-end ferrule	H1,5/16 R
Cross-section for conductor connection		nominal	2.5 mm²
wire end ferrule		Stripping length	nominal 14 mm
		Recommended wire-end ferrule	H2,5/19T GR
		Stripping length	nominal 13 mm
		Recommended wire-end ferrule	H2,5/16DS BL
Cross-section for conductor connection		nominal	4 mm²
wire end ferrule		Stripping length	nominal 14 mm
		Recommended wire-end ferrule	H4,0/20T OR
		Stripping length	nominal 12 mm
		Recommended wire-end ferrule	H4,0/18T OR

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)	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)	8 V	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	Creepage distance, min.	11.2 mm
Clearance, min.	11.2 mm		

Rated data acc. to UL 1059

Rated voltage (Use group B / UL 1059)	600 V	Rated voltage (Use group C / UL 1059)	600 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)	30 A	Rated current (Use group C / UL 1059)	30 A
Rated current (Use group D / UL 1059)	5 A	Wire cross-section, AWG, min.	AWG 20
Wire cross-section, AWG, max.	AWG 10		

MPS 6/05 S TN B B

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

www.weidmueller.com

Technical data

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		

Data sheet

MPS 6/05 S TN B B

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

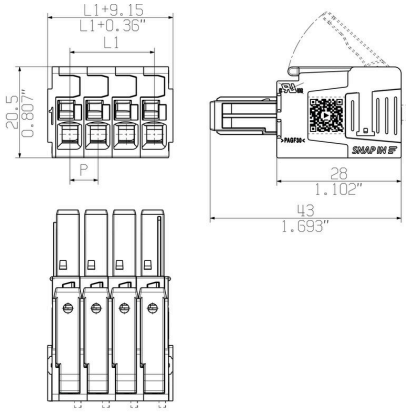
www.weidmueller.com

Drawings

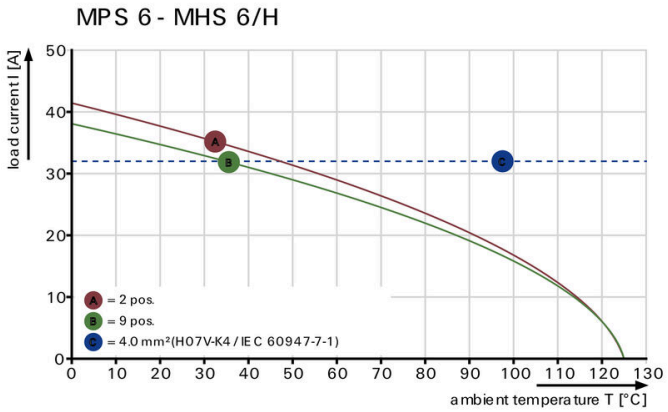
Product image



Dimensional drawing



Derating curve



Derating curve

