

MTS 5/10 V T4 B T

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

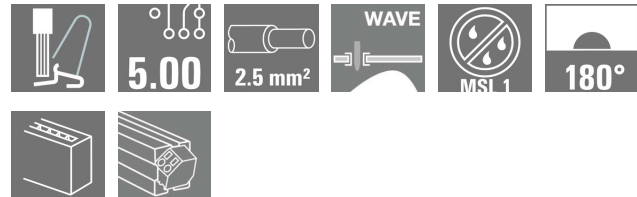
D-32758 Detmold

Germany

www.weidmueller.com

Product image

SNAP IN 



General ordering data

Version	Printed circuit board terminals, PCB terminal, THT solder connection, Pitch in mm (P): 5.00 mm, Number of poles: 10, Tube
Order No.	2913790000
Type	MTS 5/10 V T4 B T
GTIN (EAN)	4099986539785
Qty.	10 pc(s).
Product data	IEC: 400 V / 48.2 A / 0.5 - 2.5 mm ² UL: 300 V / 18.5 A
Packaging	Tube

Creation date December 7, 2023 4:39:26 PM CET

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Technical data

Dimensions and weights

Depth	13.2 mm	Depth (inches)	0.52 inch
Height	22.35 mm	Height (inches)	0.88 inch
Height of lowest version	18.85 mm	Width	52.3 mm
Width (inches)	2.059 inch	Net weight	15.4 g

Temperatures

Installation temperature	-50 °C to +70 °C
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System parameters

Product family	OMNIMATE 4.0		
Wire connection method	SNAP IN		
Mounting onto the PCB	THT solder connection		
Conductor outlet direction	180°		
Pitch in mm (P)	5 mm		
Pitch in inches (P)	0.197 "		
Number of poles	10		
Pin series quantity	1		
Number of rows	1		
Solder pin length (l)	3.5 mm		
Solder pin dimensions	0.6 x 0.8 mm		
Solder eyelet hole diameter (D)	1.3 mm		
Solder eyelet hole diameter tolerance (D)+	0,1 mm		
Number of solder pins per pole	2		
Stripping length	9 mm		
Stripping length tolerance	min.	8 mm	
	max.	10 mm	
L1 in mm	45 mm		
L1 in inches	1.772 "		
Touch-safe protection acc. to DIN VDE 0470	IP 20		
Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch		
Protection degree	IP20		

Material data

Insulating material	PA 9T	Colour	black
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	CuMg
Contact surface	tinned	Tinning type	matt
Storage temperature, min.	-25 °C	Storage temperature, max.	55 °C
Operating temperature, min.	-50 °C	Operating temperature, max.	120 °C

Conductors suitable for connection

Clamping range, min.	0.34 mm ²
Clamping range, max.	2.5 mm ²
Wire connection cross section AWG, min.	AWG 20
Wire connection cross section AWG, max.	AWG 12
Solid, min. H05(07) V-U	0.5 mm ²

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Solid, max. H05(07) V-U	2.5 mm ²		
Flexible, min. H05(07) V-K	0.5 mm ²		
Flexible, max. H05(07) V-K	2.5 mm ²		
w. plastic collar ferrule, DIN 46228 pt 4, 0.34 mm ² min.			
w. plastic collar ferrule, DIN 46228 pt 4, 2.5 mm ² max.			
w. wire end ferrule, DIN 46228 pt 1, 0.5 mm ² min.			
w. wire end ferrule, DIN 46228 pt 1, 2.5 mm ² max.			
Outer diameter of insulation, min.	0.34 mm		
Outer diameter of insulation, max.	4 mm		
Clampable conductor	Cross-section for conductor connection	nominal	0.34 mm
	wire end ferrule	Stripping length	nominal 10 mm
		Recommended wire-end ferrule	H0.34/12 TK
	Cross-section for conductor connection	nominal	0.5 mm ²
	wire end ferrule	Stripping length	nominal 12 mm
		Recommended wire-end ferrule	H0.5/16 OR
		Stripping length	nominal 10 mm
		Recommended wire-end ferrule	H0.5/10
	Cross-section for conductor connection	nominal	0.75 mm ²
	wire end ferrule	Stripping length	nominal 12 mm
		Recommended wire-end ferrule	H0.75/16 W
		Stripping length	nominal 10 mm
		Recommended wire-end ferrule	H0.75/10
	Cross-section for conductor connection	nominal	1 mm ²
	wire end ferrule	Stripping length	nominal 12 mm
		Recommended wire-end ferrule	H1.0/16 GE
		Stripping length	nominal 10 mm
		Recommended wire-end ferrule	H1.0/10
	Cross-section for conductor connection	nominal	1.5 mm ²
	wire end ferrule	Stripping length	nominal 12 mm
		Recommended wire-end ferrule	H1.5/16 R
		Stripping length	nominal 10 mm
		Recommended wire-end ferrule	H1.5/10
	Cross-section for conductor connection	nominal	2.5 mm ²
wire end ferrule	Stripping length	nominal 10 mm	
	Recommended wire-end ferrule	H2.5/15D BL	
	Stripping length	nominal 10 mm	
	Recommended wire-end ferrule	H2.5/10	

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Rated data acc. to IEC

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. number of poles (Tu=20°C)	48.2 A
Rated current, max. number of poles (Tu=20°C)	39.2 A	Rated current, min. number of poles (Tu=40°C)	42.5 A
Rated current, max. number of poles (Tu=40°C)	33.7 A	Rated voltage for surge voltage class / pollution degree II/2	400 V
Rated voltage for surge voltage class / pollution degree III/2	320 V	Rated voltage for surge voltage class / pollution degree III/3	250 V
Rated impulse voltage for surge voltage class/ pollution degree II/2	4 kV	Rated impulse voltage for surge voltage class/ pollution degree III/2	4 kV
Rated impulse voltage for surge voltage class/ contamination degree III/3	4 kV		

Rated data acc. to UL 1059

Rated voltage (Use group B / UL 1059)	300 V	Rated voltage (Use group D / UL 1059)	300 V
Rated voltage (Use group F / UL 1059)	420 V	Rated current (Use group B / UL 1059)	18.5 A
Rated current (Use group D / UL 1059)	10 A	Clearance distance, min.	4 mm
Creepage distance, min.	5.6 mm		

Classifications

ETIM 6.0	EC002643	ETIM 7.0	EC002643
ETIM 8.0	EC002643	ETIM 9.0	EC002643
ECLASS 9.0	27-44-04-01	ECLASS 9.1	27-44-04-01
ECLASS 10.0	27-44-04-01	ECLASS 11.0	27-46-01-01
ECLASS 12.0	27-46-01-01	ECLASS 13.0	27460101

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
- 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

Downloads

Approval/Certificate/Document of Conformity	Declaration of the Manufacturer
Engineering Data	CAD data – STEP
Product Change Notification	Technical change to MTS 5 - Packaging
Catalogues	Catalogues in PDF-format

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Drawings

Product image

