Data sheet

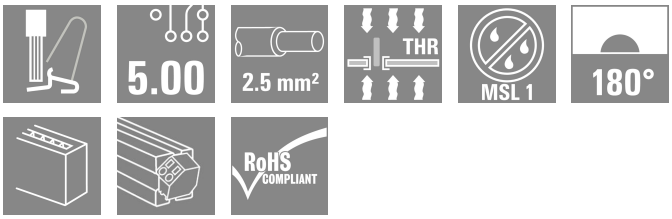
MTS 5/01 V T4 B T

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

www.weidmueller.com

Product image





General ordering data

Version	Printed circuit board terminals, PCB terminal, THT/ THR solder connection, Pitch in mm (P): 5.00 mm, Number of poles: 1, Tube
Order No.	3096010000
Type	MTS 5/01 V T4 B T
GTIN (EAN)	4099987119511
Qty.	72 items
Product data	IEC: 400 V / 32 A / 0.5 - 4 mm² UL: 300 V / 20 A / AWG 20 - AWG 12
Packaging	Tube

Data sheet

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Technical data

Approvals

ROHS	Conform

Dimensions and weights

Depth	13.2 mm	Depth (inches)	0.5197 inch
Height	22.35 mm	Height (inches)	0.8799 inch
Height of lowest version	18.85 mm	Width	7.3 mm
Width (inches)	0.2874 inch	Net weight	1.98 g

Temperatures

Ambient temperature	-50 °C...125 °C	Installation temperature	-25 °C to +125 °C

Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption
REACH SVHC	No SVHC above 0.1 wt%

System parameters

Product family	OMNIMATE 4.0	
Wire connection method	SNAP IN with push button	
Property, clamping point	WireReady	
Mounting onto the PCB	THT/THR solder connection	
Conductor outlet direction	180°	
Pitch in mm (P)	5.00 mm	
Pitch in inches (P)	0.197 "	
Number of poles	1	
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
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 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
Tinning type	matt	Storage temperature, min.	-40 °C
Storage temperature, max.	70 °C	Operating temperature, min.	-50 °C
Operating temperature, max.	125 °C		

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Conductors suitable for connection

Conductor cross-section (rated connection), min.	0.34 mm²	Conductor cross-section (rated connection), max.	4 mm²
Wire connection cross section AWG, min.	AWG 20	Wire connection cross section AWG, max.	AWG 12
Solid, min. H05(07) V-U	0.5 mm²	Solid, max. H05(07) V-U	2.5 mm²
Flexible, min. H05(07) V-K	0.5 mm²	Flexible, max. H05(07) V-K	4 mm²
w. plastic collar ferrule, DIN 46228 pt 4, min.	0.34 mm²	w. plastic collar ferrule, DIN 46228 pt 4, max.	2.5 mm²
w. wire end ferrule, DIN 46228 pt 1, min.	0.5 mm²	w. wire end ferrule, DIN 46228 pt 1, max.	2.5 mm²
Outer diameter (insulation), max.	4.00 mm		

Rated data acc. to IEC

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current at min. number of poles (Tu = 20 °C)	32 A
Rated current, max. number of poles (Tu=20°C)	32 A	Rated current, min. number of poles (Tu=40°C)	32 A
Rated current at max. number of poles (Tu = 40 °C)	32 A	Rated voltage for surge voltage class (pollution degree II/2)	400 V
Rated voltage for surge voltage class (pollution degree III/2)	400 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 CSA

Wire cross-section, AWG, min.	AWG 20	Wire cross-section, AWG, max.	AWG 12

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)	20 A
Rated current (Use group D / UL 1059)	10 A	Wire cross-section, AWG, min.	AWG 20
Wire cross-section, AWG, max.	AWG 12	Creepage distance (UL 1059), min.	5.6 mm
Clearance distance (UL 1059), min.	4 mm		

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. • During transport, it may rarely occur that the clamping points are already closed. The products remain fully functional. To reactivate the SNAP IN function, please press the activation button. • When using a 1-pole PCB terminal block, it must be supported in the application. • Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months

Classifications

ETIM 8.0	EC002643	ETIM 9.0	EC002643
ETIM 10.0	EC002643	ECLASS 14.0	27-46-01-01

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Technical data

ECLASS 15.0	27-46-01-01

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Drawings

Product image



