

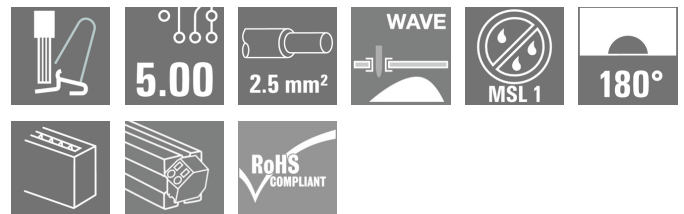
**MTS 5/02 V T4 B T****Weidmüller Interface GmbH & Co. KG**

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: 2, Tube
Order No.	<a href="#">2913710000</a>
Type	MTS 5/02 V T4 B T
GTIN (EAN)	4099986539709
Qty.	44 pc(s).
Product data	IEC: 400 V / 32 A / 0.5 - 4 mm² UL: 300 V / 18.5 A / AWG 20 - AWG 12
Packaging	Tube

Creation date November 7, 2024 10:08:30 AM CET

Catalogue status 26.10.2024 / We reserve the right to make technical changes.

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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	12.3 mm
Width (inches)	0.484 inch	Net weight	5.751 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	
Property, clamping point	WireReady	
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	2	
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	5 mm	
L1 in inches	0.197 "	
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	Cu-alloy
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 <sup>2</sup>
Clamping range, max.	4 mm <sup>2</sup>
Wire connection cross section AWG, min.	AWG 12
Wire connection cross section AWG, max.	AWG 20

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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, 0.34 mm² min.				
w. plastic collar ferrule, DIN 46228 pt 4, 2.5 mm² max.				
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 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	<a href="#">H0.34/12 TK</a>	
	Cross-section for conductor connection	nominal	0.5 mm²	
	wire end ferrule	Stripping length	nominal 12 mm	
		Recommended wire-end ferrule	<a href="#">H0.5/16 OR</a>	
		Stripping length	nominal 10 mm	
		Recommended wire-end ferrule	<a href="#">H0.5/10</a>	
	Cross-section for conductor connection	nominal	0.75 mm²	
	wire end ferrule	Stripping length	nominal 12 mm	
		Recommended wire-end ferrule	<a href="#">H0.75/16 W</a>	
		Stripping length	nominal 10 mm	
		Recommended wire-end ferrule	<a href="#">H0.75/10</a>	
	Cross-section for conductor connection	nominal	1 mm²	
	wire end ferrule	Stripping length	nominal 12 mm	
		Recommended wire-end ferrule	<a href="#">H1.0/16 GE</a>	
		Stripping length	nominal 10 mm	
		Recommended wire-end ferrule	<a href="#">H1.0/10</a>	
	Cross-section for conductor connection	nominal	1.5 mm²	
	wire end ferrule	Stripping length	nominal 12 mm	
		Recommended wire-end ferrule	<a href="#">H1.5/16 R</a>	
		Stripping length	nominal 10 mm	
		Recommended wire-end ferrule	<a href="#">H1.5/10</a>	
	Cross-section for conductor connection	nominal	2.5 mm²	
	wire end ferrule	Stripping length	nominal 10 mm	
		Recommended wire-end ferrule	<a href="#">H2.5/15D BL</a>	
		Stripping length	nominal 10 mm	
		Recommended wire-end ferrule	<a href="#">H2.5/10</a>	

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## Technical data

## Rated data acc. to IEC

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, 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, 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	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 CSA

Wire cross-section, AWG, min.	AWG 20	Wire cross-section, AWG, max.	AWG 12
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## Rated data acc. to UL 1059

Institute (cURus)		Certificate No. (cURus)	E60693
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	Wire cross-section, AWG, min.	AWG 20
Wire cross-section, AWG, max.	AWG 12	Clearance distance, min.	4 mm
Creepage distance, min.	5.6 mm	Reference to approval values	Specifications are maximum values, details - see approval certificate.

## 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	27-46-01-01
ECLASS 14.0	27-46-01-01		

## Environmental Product Compliance

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

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## Technical data

## 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	<ul style="list-style-type: none"> <li>Rated current related to rated cross-section &amp; min. No. of poles.</li> <li>P on drawing = pitch</li> <li>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.</li> <li>Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months</li> </ul>

## Approvals

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate No. (cURus)	E60693

## Downloads

Approval/Certificate/Document of Conformity	<a href="#">cURus CoC E60693 MTS5_202310.pdf Declaration of the Manufacturer</a>
Engineering Data	<a href="#">CAD data – STEP</a>
Product Change Notification	<a href="#">Technical change to MTS 5 - Packaging</a>
Catalogues	<a href="#">Catalogues in PDF-format</a>

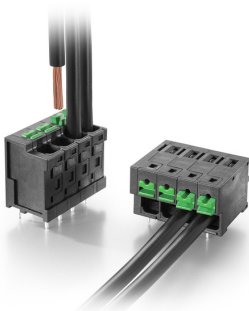
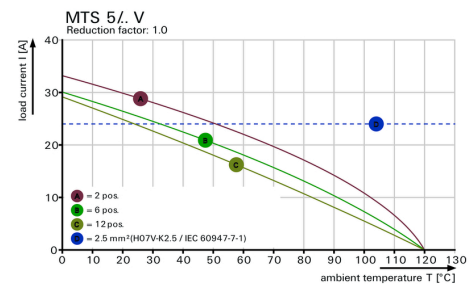
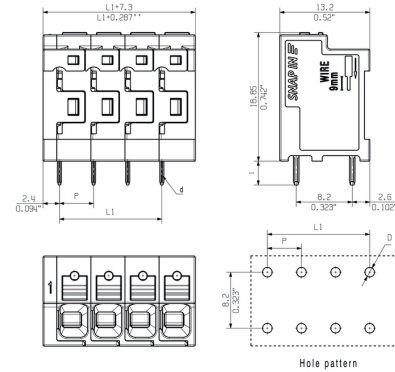
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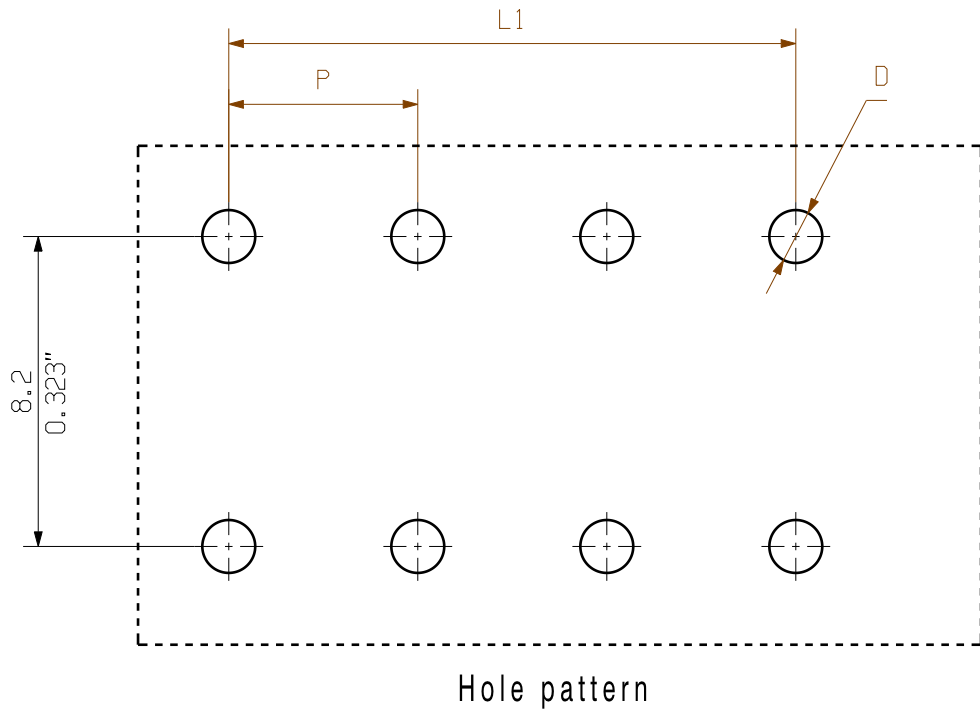
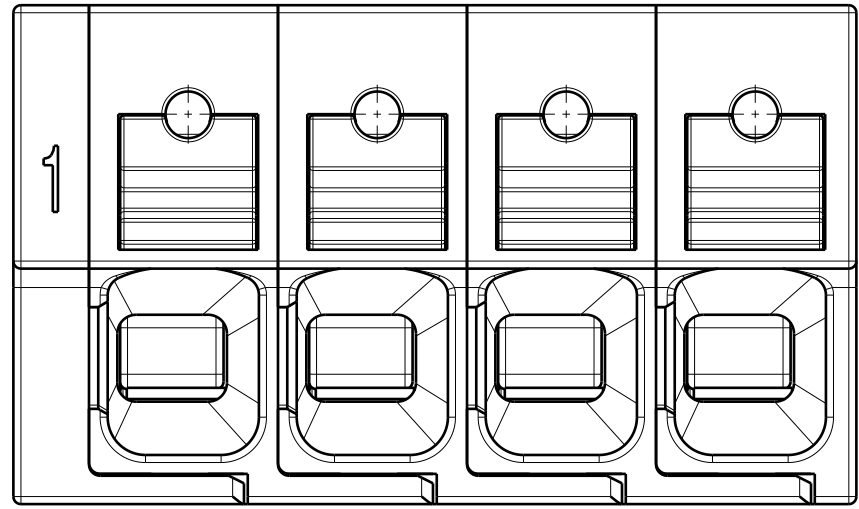
## Drawings

### Product image



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The dimensions and tolerances specified on the customer drawing reflect the geometry in dry condition and do not consider humidity and temperature effects. A specific agreement / specification between manufacturer and customer is required if certain dimensions including tolerances must be guaranteed under environmental conditions in the storage phase or the application (e.g. high humidity and / or temperature).

For the mounting of PCBs, it should be noted that the rated data relates only to the PCB components alone. The necessary creepage and clearance paths must be observed in connection with the respective applicant in accordance to IEC 60664-1 (VDE 0110). The current-carrying capacity and pitch tolerance is to be determined according to DIN IEC 60326-3 very fine.

Weidmüller PCB components are tested to the IEC 60947-7-4 standard, and are valid for its field of application. Provided that the components are used to the intended purpose, all requirements with respect to the occurring of electrical, mechanical, thermic and corrosive stress will be satisfied.

General customer drawing, topical version only if required

P = 5.00  
0.197" Pitch  
D = Ø1.3 +0.1  
0.051"  
d = 0.6x0.8  
0.024"x0.031"  
l = 3.5  
0.138"



12	55.00	2.165
11	50.00	1.969
10	45.00	1.772
9	40.00	1.575
8	35.00	1.378
7	30.00	1.181
6	25.00	0.984
5	20.00	0.787
4	15.00	0.591
3	10.00	0.394
2	5.00	0.197
n Poles	L1 [mm]	L1 [inch]

General Tolerances: .			Tolerances ISO 8015		
Changes: 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## Recommended wave soldering profiles

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### Single Wave:



### Double Wave:



### Wave soldering profiles

Wired connection elements should be processed in accordance with the DIN EN 61760-1 standard. We have included two recommendations for practical wave soldering profiles, with which Weidmüller PCB terminals and connectors are qualified.

When choosing a suitable profile for your application, the following factors also need to be considered:

- PCB thickness
- Proportion of Cu in the layers
- Single/double-sided assembly
- Product range
- Heating and cooling rates

The single and double wave profiles each indicate the recommended operating range, including the maximum soldering temperature of 260°C. In practice, the maximum soldering temperature is quite often well below the above maximum profile.

We reserve the right to make technical changes.