

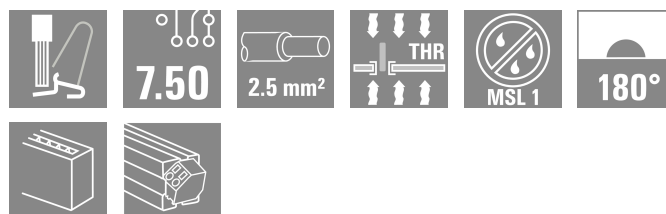
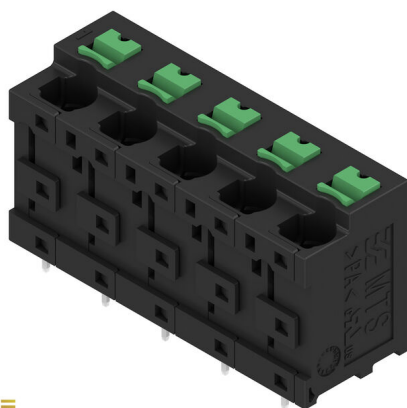
**MTS 7S/05 V T4 B T****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

**Product image****SNAP IN** **General ordering data**

|              |                                                                                                                              |
|--------------|------------------------------------------------------------------------------------------------------------------------------|
| Version      | Printed circuit board terminals, PCB terminal, THT/THR solder connection, Pitch in mm (P): 7.50 mm, Number of poles: 5, Tube |
| Order No.    | <a href="#">3124710000</a>                                                                                                   |
| Type         | MTS 7S/05 V T4 B T                                                                                                           |
| GTIN (EAN)   | 4099987278850                                                                                                                |
| Qty.         | 14 items                                                                                                                     |
| Product data | IEC: 600 V / 32 A / 0.5 - 4 mm <sup>2</sup><br>UL: 300 V / 20 A / AWG 20 - AWG 12                                            |
| Packaging    | Tube                                                                                                                         |

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## Technical data

## Approvals

Approvals



ROHS Conform

UL File Number Search [UL Website](#)

Certificate No. (cURus) E60693

## Dimensions and weights

|                          |             |                 |             |
|--------------------------|-------------|-----------------|-------------|
| Depth                    | 13.2 mm     | Depth (inches)  | 0.5197 inch |
| Height                   | 22.5 mm     | Height (inches) | 0.8858 inch |
| Height of lowest version | 19 mm       | Width           | 37.3 mm     |
| Width (inches)           | 1.4685 inch | Net weight      | 9.52 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)                                   | 7.50 mm                   |       |  |
| Pitch in inches (P)                               | 0.295 "                   |       |  |
| Number of poles                                   | 5                         |       |  |
| 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                                          | 30.00 mm                  |       |  |
| L1 in inches                                      | 1.181 "                   |       |  |
| 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 |

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|-----------------------------|----------|----------------------------------|--------|
| 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   |                                  |        |

## 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 20                                 |                              |                             |
| Wire connection cross section AWG, max.                              | AWG 12                                 |                              |                             |
| Solid, min. H05(07) V-U                                              | 0.5 mm <sup>2</sup>                    |                              |                             |
| Solid, max. H05(07) V-U                                              | 2.5 mm <sup>2</sup>                    |                              |                             |
| Stranded, min. H07V-R                                                | 0.5 mm <sup>2</sup>                    |                              |                             |
| Stranded, max. H07V-R                                                | 4 mm <sup>2</sup>                      |                              |                             |
| Flexible, min. H05(07) V-K                                           | 0.5 mm <sup>2</sup>                    |                              |                             |
| Flexible, max. H05(07) V-K                                           | 4 mm <sup>2</sup>                      |                              |                             |
| w. plastic collar ferrule, DIN 46228 pt 4, 0.34 mm <sup>2</sup> min. |                                        |                              |                             |
| w. plastic collar ferrule, DIN 46228 pt 4, 2.5 mm <sup>2</sup> max.  |                                        |                              |                             |
| w. wire end ferrule, DIN 46228 pt 1, min.                            | 0.5 mm <sup>2</sup>                    |                              |                             |
| w. wire end ferrule, DIN 46228 pt 1, max.                            | 2.5 mm <sup>2</sup>                    |                              |                             |
| Outer diameter of insulation, max.                                   | 4.00 mm                                |                              |                             |
| Clampable conductor                                                  | Cross-section for conductor connection | nominal                      | 0.34 mm                     |
|                                                                      |                                        | Stripping length             | nominal 10 mm               |
|                                                                      | wire end ferrule                       | Recommended wire-end ferrule | <a href="#">H0.34/12 TK</a> |
|                                                                      |                                        |                              |                             |
|                                                                      | Cross-section for conductor connection | nominal                      | 0.5 mm <sup>2</sup>         |
|                                                                      |                                        | Stripping length             | nominal 12 mm               |
|                                                                      | wire end ferrule                       | Recommended wire-end ferrule | <a href="#">H0.5/16 OR</a>  |
|                                                                      |                                        |                              |                             |
|                                                                      | Cross-section for conductor connection | nominal                      | 0.75 mm <sup>2</sup>        |
|                                                                      |                                        | Stripping length             | nominal 12 mm               |
|                                                                      | wire end ferrule                       | Recommended wire-end ferrule | <a href="#">H0.75/16 W</a>  |
|                                                                      |                                        |                              |                             |
|                                                                      | Cross-section for conductor connection | nominal                      | 1 mm <sup>2</sup>           |
|                                                                      |                                        | Stripping length             | nominal 10 mm               |
|                                                                      | wire end ferrule                       | Recommended wire-end ferrule | <a href="#">H1.0/16 GE</a>  |
|                                                                      |                                        |                              |                             |
|                                                                      | Cross-section for conductor connection | nominal                      | 1.5 mm <sup>2</sup>         |
|                                                                      |                                        | Stripping length             | nominal 12 mm               |
|                                                                      | wire end ferrule                       | Recommended wire-end ferrule | <a href="#">H1.5/16 R</a>   |
|                                                                      |                                        |                              |                             |
|                                                                      | Cross-section for conductor connection | nominal                      | 1.5 mm <sup>2</sup>         |
|                                                                      |                                        | Stripping length             | nominal 10 mm               |

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|                                        |                              |                             |
|----------------------------------------|------------------------------|-----------------------------|
|                                        | Recommended wire-end ferrule | <a href="#">H1.5/10</a>     |
| Cross-section for conductor connection | nominal                      | 2.5 mm <sup>2</sup>         |
| 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>     |

## 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         | 600 V |
| Rated voltage for surge voltage class / pollution degree III/2            | 1000 V                 | Rated voltage for surge voltage class / pollution degree III/3        | 500 V |
| Rated impulse voltage for surge voltage class/ pollution degree II/2      | 6 V                    | Rated impulse voltage for surge voltage class/ pollution degree III/2 | 6 kV  |
| Rated impulse voltage for surge voltage class/ contamination degree III/3 | 6 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

|                                       |         |                                       |                                                                        |
|---------------------------------------|---------|---------------------------------------|------------------------------------------------------------------------|
| Institute (cURus)                     | 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) | 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, min.               | 6.92 mm                                                                |
| Clearance distance, min.              | 6.92 mm | Reference to approval values          | Specifications are maximum values, details - see approval certificate. |

## 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 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>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.</li> <li>Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months</li> </ul> |

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 8.0    | EC002643    | ETIM 9.0    | EC002643    |
| ETIM 10.0   | EC002643    | ECLASS 14.0 | 27-46-01-01 |
| ECLASS 15.0 | 27-46-01-01 |             |             |

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