

## TMS 5.08/20/90 3.0SN GN BX

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

[www.weidmueller.com](http://www.weidmueller.com)



### General ordering data

|              |   |
|--------------|---|
| Order No.    | 2651510000  |
| Type         | <a href="#">TMS 5.08/20/90 3.0SN GN BX</a>  |
| GTIN (EAN)   | 4050118635461   |
| Qty.         | 40 items  |
| Product data | IEC: 320 V / 15 A / 0.2 - 2.5 mm <sup>2</sup><br>UL: 300 V / 15 A / AWG 30 - AWG 12 |
| Packaging    | Box   |

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## Technical data

## Approvals

Approvals



|                         |                            |
|-------------------------|----------------------------|
| ROHS                    | Conform                    |
| UL File Number Search   | <a href="#">UL Website</a> |
| Certificate No. (cURus) | E60693                     |

## Dimensions and weights

|            |        |
|------------|--------|
| Net weight | 20.6 g |
|------------|--------|

## Environmental Product Compliance

|                                      |                                      |
|--------------------------------------|--------------------------------------|
| RoHS Compliance Status               | Compliant with exemption             |
| RoHS Exemption (if applicable/known) | 6c                                   |
| REACH SVHC                           | Lead 7439-92-1                       |
| SCIP                                 | e8ca8b50-189f-4e0d-bdaa-5c8b34abe5bd |

## System parameters

|                                |                             |                                 |                          |
|--------------------------------|-----------------------------|---------------------------------|--------------------------|
| Product family                 | OMNIMATE basic – Series TMS | Wire connection method          | Clamping yoke connection |
| Mounting onto the PCB          | THT solder connection       | Conductor outlet direction      | 90°                      |
| Pitch in mm (P)                | 5.08 mm                     | Pitch in inches (P)             | 0.200 "                  |
| Number of poles                | 20                          | Pin series quantity             | 1                        |
| Number of rows                 | 1                           | Solder pin length (l)           | 3 mm                     |
| Solder pin dimensions          | 0.7 x 0.9mm                 | Solder eyelet hole diameter (D) | 1.4 mm                   |
| Number of solder pins per pole | 1                           | Screwdriver blade               | 0.6 x 3.5                |
| Tightening torque, min.        | 0.5 Nm                      | Tightening torque, max.         | 0.55 Nm                  |
| Clamping screw                 | M 3                         | Stripping length                | 6 mm                     |
| L1 in mm                       | 96.52 mm                    | L1 in inches                    | 3.800 "                  |
| Protection degree              | IP20                        |                                 |                          |

## Material data

|                             |              |                             |            |
|-----------------------------|--------------|-----------------------------|------------|
| Insulating material         | PA           | Colour                      | Pale green |
| Colour chart (similar)      | RAL 6021     | Insulating material group   | I          |
| Moisture Level (MSL)        |              | UL 94 flammability rating   | V-0        |
| Contact material            | Copper alloy | Contact surface             | tinned     |
| Tinning type                | mat          | Storage temperature, min.   | -40 °C     |
| Storage temperature, max.   | 70 °C        | Operating temperature, min. | -40 °C     |
| Operating temperature, max. | 105 °C       |                             |            |

## Conductors suitable for connection

|   |                     |   |                     |
|---|---------------------|---|---------------------|
| Clamping range, min.  | 0.2 mm <sup>2</sup> | Clamping range, max.  | 2.5 mm <sup>2</sup> |
| Solid, min. H05(07) V-U   | 0.2 mm <sup>2</sup> | Solid, max. H05(07) V-U   | 2.5 mm <sup>2</sup> |
| Flexible, min. H05(07) V-K  | 0.2 mm <sup>2</sup> | Flexible, max. H05(07) V-K  | 2.5 mm <sup>2</sup> |
| w. plastic collar ferrule, DIN 46228 pt 4, 0.2 mm <sup>2</sup> min. |                     | w. plastic collar ferrule, DIN 46228 pt 4, 1.5 mm <sup>2</sup> max. |                     |
| w. wire end ferrule, DIN 46228 pt 1, 0.2 mm <sup>2</sup> min.       |                     | w. wire end ferrule, DIN 46228 pt 1, 1.5 mm <sup>2</sup> max.       |                     |

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## Rated data acc. to IEC

|   |        |   |        |
|---|--------|---|--------|
| Rated current, min. number of poles (Tu=20°C)                             | 15 A   | Rated voltage for surge voltage class / pollution degree II/2         | 320 V  |
| Rated voltage for surge voltage class / pollution degree III/2            | 250 V  | Rated voltage for surge voltage class / pollution degree III/3        | 160 V  |
| Rated impulse voltage for surge voltage class/ pollution degree II/2      | 2.5 kV | Rated impulse voltage for surge voltage class/ pollution degree III/2 | 2.5 kV |
| Rated impulse voltage for surge voltage class/ contamination degree III/3 | 2.5 kV |   |        |

## 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 current (Use group B / UL 1059) | 15 A   | Rated current (Use group D / UL 1059) | 10 A   |
| Wire cross-section, AWG, min.         | AWG 30   | Wire cross-section, AWG, max.         | AWG 12 |
| Reference to approval values          | Specifications are maximum values, details - see approval certificate. |                                       |        |

## Packing

|           |         |            |         |
|-----------|---------|------------|---------|
| Packaging | Box     | VPE length | 0.00 mm |
| VPE width | 0.00 mm | VPE height | 0.00 mm |

## Important note

|       |  |
|-------|--|
| Notes | <ul style="list-style-type: none"> <li>• Only compatible with OMNIMATE basic products</li> <li>• P on drawing = pitch</li> <li>• Rated current related to rated cross-section &amp; min. No. of poles.</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>• In the case of a two-pole terminal, the insulating body must be held against the terminal when tightening the screw.</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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**Drawings**

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