



#### General ordering data

|                  |   |
|------------------|---|
| Order No.        | 1769040000  |
| Part designation | LM2N5.08/42 3.5 OR  |
| Version          | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 42, 90°, Box |
| EAN              | 4032248115860   |
| Qty.             | 10 pc(s).   |

#### System parameters

|                                 |                          |
|---------------------------------|--------------------------|
| Product family                  | System LM                |
| Conductor connection system     | Clamping yoke connection |
| Fitted to PCB                   | Soldered connection      |
| Outgoing direction of conductor | 90°                      |
| Pitch                           | 5.08 mm                  |
| Pitch in inch                   | 0.2 inch                 |
| No. of poles                    | 42                       |
| Fitted by customer              | yes                      |
| Max. adjacent poles per row     | 48                       |
| No. of rows                     | 2                        |
| Solder pin length               | 3.5 mm                   |
| Dia. of fitting hole            | 1.3 mm                   |
| Fitting hole tolerance          | + 0.1 mm                 |
| No. of solder pins per pole     | 1                        |

| System parameters  |                        |
|--|------------------------|
| Screwdriver blade  | 0.6 x 3.5              |
| Screwdriver blade standard                                   | DIN 5264               |
| Tightening torque, min.                                      | 0.4 Nm                 |
| Tightening torque, max.                                      | 0.5 Nm                 |
| Clamping screw   | M 2.5                  |
| Stripping length   | 6 mm                   |
| L1 in mm   | 101.6 mm               |
| L1 in inch   | 4 inch                 |
| Electric shock protection to DIN VDE 0470                    | IP 20                  |
| Electric shock protection to DIN VDE 0470                    | Safe from finger touch |
| Material data  |                        |
| Insulating material  | Wemid (PA)             |
| Colour   | orange                 |
| colour chart   | Similar to RAL 2000    |
| Insulating material group                                    | I                      |
| Flammability class UL 94                                     | V-0                    |
| CTI  | >= 600                 |
| Temperature of glow-wire test                                | 750 °C                 |
| Duration of glow-wire test                                   | 30 S                   |
| Contact base material  | Copper alloy           |
| Contact surface  | tinned                 |
| Storage temperature, min.                                    | -25 °C                 |
| Storage temperature, max.                                    | 55 °C                  |
| Connectable conductors                                       |                        |
| Clamping range, min.   | 0.2 mm <sup>2</sup>    |
| Clamping range, max.   | 2.5 mm <sup>2</sup>    |
| AWG, min.  | 24                     |
| AWG, max.  | 14                     |
| O.D. of conductor insulation, max.                           | 2.9 mm                 |
| 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                                   | 1.5 mm <sup>2</sup>    |
| With wire end ferrule, acc. to DIN 46 228/1, min.            | 0.25 mm <sup>2</sup>   |
| With wire end ferrule, acc. to DIN 46 228/1, max.            | 1.5 mm <sup>2</sup>    |
| w. plastic collar ferrule, DIN 46228 pt 4, min.              | 0.25 mm <sup>2</sup>   |
| w. plastic collar ferrule, DIN 46228 pt 4, max.              | 1.5 mm <sup>2</sup>    |
| Gauge to EN 60999 a x b; ø                                   | 2.4 mm x 1.5 mm; 1.9mm |
| DIN IEC rating data  |                        |
| Rated current, min. No. pins (Tu=20°C)                       | 17.5 A                 |
| Rated current, max. No. pins (Tu=20°C)                       | 16 A                   |
| Rated current, min. No. pins (Tu=40°C)                       | 17.5 A                 |
| Rated current, max. No. pins (Tu=40°C)                       | 14.2 A                 |
| Rated voltage for overvoltage class/pollution severity II/2  | 630 V                  |
| Rated voltage for overvoltage class/pollution severity III/2 | 320 V                  |

#### DIN IEC rating data

|  |                   |
|--|-------------------|
| Rated voltage for overvoltage class/pollution severity III/3                   | 250 V             |
| Rated impulse withstand voltage for overvoltage class/pollution severity II/2  | 4 kV              |
| Rated impulse withstand voltage for overvoltage class/pollution severity III/2 | 4 kV              |
| Rated impulse withstand voltage for overvoltage class/pollution severity III/3 | 4 kV              |
| Short-time withstand current resistance  | 3 x 1s with 120 A |

#### CSA rating data

|                                    |       |
|------------------------------------|-------|
| Rated voltage (Use group D)        | 300 V |
| Rated current (Use group D)        | 10 A  |
| AWG conductor (field wiring), min. | 24    |
| AWG conductor (field wiring), max. | 14    |

#### UL 1059 rating data

|                             |       |
|-----------------------------|-------|
| Rated voltage (Use group D) | 300 V |
| Rated current (Use group D) | 10 A  |
| AWG conductor, min.         | 24    |
| AWG conductor, max.         | 14    |

#### Approvals

Approvals institutes



#### Downloads

|                                       |          |
|---------------------------------------|----------|
| CAD Library (P-CAD Format - Standard) | LM2N.lib |
|---------------------------------------|----------|

#### Classifications

|            |          |
|------------|----------|
| ETIM 2.0   | NK       |
| ETIM 3.0   | EC001284 |
| eClass 4.1 | NK       |
| eClass 5.0 | NK       |
| eClass 5.1 | NK       |

#### Similar products

| Order No.  | Part designation  | Version  |
|------------|-------------------|--|
| 1768850000 | LM2N5.08/4 3.5 OR | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 4, 90°, Box |
| 1768860000 | LM2N5.08/6 3.5 OR | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 6, 90°, Box |

|            |                    |   |
|------------|--------------------|---|
| 1768870000 | LM2N5.08/8 3.5 OR  | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 8, 90°, Box  |
| 1768880000 | LM2N5.08/10 3.5 OR | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 10, 90°, Box |
| 1768890000 | LM2N5.08/12 3.5 OR | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 12, 90°, Box |
| 1768900000 | LM2N5.08/14 3.5 OR | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 14, 90°, Box |
| 1768910000 | LM2N5.08/16 3.5 OR | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 16, 90°, Box |
| 1768920000 | LM2N5.08/18 3.5 OR | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 18, 90°, Box |
| 1768930000 | LM2N5.08/20 3.5 OR | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 20, 90°, Box |
| 1768940000 | LM2N5.08/22 3.5 OR | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 22, 90°, Box |
| 1768950000 | LM2N5.08/24 3.5 OR | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 24, 90°, Box |
| 1768960000 | LM2N5.08/26 3.5 OR | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 26, 90°, Box |
| 1768970000 | LM2N5.08/28 3.5 OR | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 28, 90°, Box |
| 1768980000 | LM2N5.08/30 3.5 OR | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 30, 90°, Box |
| 1768990000 | LM2N5.08/32 3.5 OR | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 32, 90°, Box |
| 1769000000 | LM2N5.08/34 3.5 OR | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 34, 90°, Box |
| 1769010000 | LM2N5.08/36 3.5 OR | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 36, 90°, Box |
| 1769020000 | LM2N5.08/38 3.5 OR | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 38, 90°, Box |
| 1769030000 | LM2N5.08/40 3.5 OR | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 40, 90°, Box |

|            |                    |   |
|------------|--------------------|---|
| 1769050000 | LM2N5.08/44 3.5 OR | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 44, 90°, Box |
| 1769060000 | LM2N5.08/46 3.5 OR | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 46, 90°, Box |
| 1769070000 | LM2N5.08/48 3.5 OR | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 48, 90°, Box |