







| Order No.        | 1769750000   |
|------------------|--|
| Part designation | LM3R5.08/45 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: 45, 90°, Box |
| EAN              | 4032248117123  |
| Qtv.             | 10 pc(s).  |

| 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                    | 45                       |
| Fitted by customer              | yes                      |
| Max. adjacent poles per row     | 72                       |
| No. of rows                     | 3                        |
| 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                        |
|                                 |                          |



| Cyctom novemetove                                 |                        |
|---|------------------------|
| 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  | 71.12 mm               |
| L1 in inch  | 2.8 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                         |                        |
| 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 base material  Contact surface            | tinned                 |
| Storage temperature, min.                         | -25 °C                 |
| Storage temperature, max.                         | 55 °C                  |
| Storage temperature, max.                         | 35 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 mm²                |
| 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     | 630 V                  |
| severity II/2                                     |                        |
| Rated voltage for overvoltage class/pollution     | 320 V                  |
| severity III/2                                    |                        |
|   |                        |



| 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 |
|  |                   |
| 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                |
|  |                   |
|  |                   |
| 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



| CAD Library (P-CAD Format - Standard) LM | 3R.lib |
|--|--------|
| Classifications                          |        |
| ETIM 2.0 NK                              |        |
| ETIM 3.0 EC                              | 001284 |
| eClass 4.1 NK                            |        |
| eClass 5.0 NK                            |        |
| eClass 5.1 NK                            |        |

## Similar products

| Order No.  |                   | Version   |
|------------|-------------------|---|
| 1769620000 | LM3R5.08/6 3.5 OR | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm², Pitch: 5.08 mm, No. of poles: 6, 90°, Box |
| 1769630000 | LM3R5.08/9 3.5 OR | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm², Pitch: 5.08 mm, No. of poles: 9, 90°, Box |



| 1769640000 | LM3R5.08/12 3.5 OR | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm², Pitch: 5.08 mm, No. of poles: 12, 90°, Box |
|------------|--------------------|--|
| 1769650000 | LM3R5.08/15 3.5 OR | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm², Pitch: 5.08 mm, No. of poles: 15, 90°, Box |
| 1769660000 | LM3R5.08/18 3.5 OR | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm², Pitch: 5.08 mm, No. of poles: 18, 90°, Box |
| 1769670000 | LM3R5.08/21 3.5 OR | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm², Pitch: 5.08 mm, No. of poles: 21, 90°, Box |
| 1769680000 | LM3R5.08/24 3.5 OR | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm², Pitch: 5.08 mm, No. of poles: 24, 90°, Box |
| 1769690000 | LM3R5.08/27 3.5 OR | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm², Pitch: 5.08 mm, No. of poles: 27, 90°, Box |
| 1769700000 | LM3R5.08/30 3.5 OR | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm², Pitch: 5.08 mm, No. of poles: 30, 90°, Box |
| 1769710000 | LM3R5.08/33 3.5 OR | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm², Pitch: 5.08 mm, No. of poles: 33, 90°, Box |
| 1769720000 | LM3R5.08/36 3.5 OR | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm², Pitch: 5.08 mm, No. of poles: 36, 90°, Box |
| 1769730000 | LM3R5.08/39 3.5 OR | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm², Pitch: 5.08 mm, No. of poles: 39, 90°, Box |
| 1769740000 | LM3R5.08/42 3.5 OR | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm², Pitch: 5.08 mm, No. of poles: 42, 90°, Box |
| 1769760000 | LM3R5.08/48 3.5 OR | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm², Pitch: 5.08 mm, No. of poles: 48, 90°, Box |
| 1769770000 | LM3R5.08/51 3.5 OR | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm², Pitch: 5.08 mm, No. of poles: 51, 90°, Box |
| 1769780000 | LM3R5.08/54 3.5 OR | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm², Pitch: 5.08 mm, No. of poles: 54, 90°, Box |
| 1769790000 | LM3R5.08/57 3.5 OR | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm², Pitch: 5.08 mm, No. of poles: 57, 90°, Box |
| 1769800000 | LM3R5.08/60 3.5 OR | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm², Pitch: 5.08 mm, No. of poles: 60, 90°, Box |
| 1769810000 | LM3R5.08/63 3.5 OR | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm², Pitch: 5.08 mm, No. of poles: 63, 90°, Box |



| 1769820000 | LM3R5.08/66 3.5 OR | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm², Pitch: 5.08 mm, No. of poles: 66, 90°, Box |
|------------|--------------------|--|
| 1769830000 | LM3R5.08/69 3.5 OR | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm², Pitch: 5.08 mm, No. of poles: 69, 90°, Box |
| 1769840000 | LM3R5.08/72 3.5 OR | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm², Pitch: 5.08 mm, No. of poles: 72, 90°. Box |

