



General ordering data

| | |
|------------------|---|
| Order No. | 1667750000 |
| Part designation | LM3.5/2/90 3.2 OR |
| Version | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.08 mm ² , Pitch: 3.50 mm, No. of poles: 2, 90°, Box |
| EAN | 4008190425685 |
| Qty. | 100 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 | 3.5 mm |
| Pitch in inch | 0.138 inch |
| No. of poles | 2 |
| Fitted by customer | yes |
| Max. adjacent poles per row | 24 |
| No. of rows | 1 |
| Solder pin length | 3.2 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 | 0.4 x 2.5 |
| Screwdriver blade standard | DIN 5264 |
| Tightening torque, min. | 0.2 |
| Tightening torque, max. | 0.25 Nm |
| Clamping screw | M 2 |
| Stripping length | 5 mm |
| L1 in mm | 3.5 mm |
| L1 in inch | 0.138 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 | PA |
| Colour | orange |
| colour chart | Similar to RAL 2000 |
| Insulating material group | I |
| Flammability class UL 94 | V-2 |
| 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. | -20 °C |
| Storage temperature, max. | 55 °C |

Connectable conductors

| | |
|---|----------------------|
| Clamping range, min. | 0.08 mm ² |
| Clamping range, max. | 2.08 mm ² |
| AWG, min. | 28 |
| AWG, max. | 14 |
| O.D. of conductor insulation, max. | 2.9 mm |
| Solid, min. H05(07) V-U | 0.5 mm ² |
| Solid, max. H05(07) V-U | 1.5 mm ² |
| Flexible, min. H05(07) V-K | 0.5 mm ² |
| Flexible, max. H05(07) V-K | 1.5 mm ² |
| w. plastic collar ferrule, DIN 46228 pt 4, min. | 0.5 mm ² |
| w. plastic collar ferrule, DIN 46228 pt 4, max. | 0.75 mm ² |
| Gauge to EN 60999 a x b; ø | 2.4 mm x 1.5 mm; |

DIN IEC rating data

| | |
|--|-------|
| Rated current, min. No. pins (Tu=20°C) | 16 A |
| Rated current, max. No. pins (Tu=20°C) | 12 A |
| Rated current, min. No. pins (Tu=40°C) | 14 A |
| Rated current, max. No. pins (Tu=40°C) | 10 A |
| Rated voltage for overvoltage class/pollution severity II/2 | 320 V |
| Rated voltage for overvoltage class/pollution severity III/2 | 160 V |
| Rated voltage for overvoltage class/pollution severity III/3 | 160 V |

DIN IEC rating data

| | |
|--|------------------|
| Rated impulse withstand voltage for overvoltage class/pollution severity II/2 | 2.5 kV |
| Rated impulse withstand voltage for overvoltage class/pollution severity III/2 | 2.5 kV |
| Rated impulse withstand voltage for overvoltage class/pollution severity III/3 | 2.5 kV |
| Short-time withstand current resistance | 3 x 1s with 72 A |

CSA rating data

| | |
|------------------------------------|-------|
| Rated voltage (Use group D) | 300 V |
| Rated current (Use group D) | 10 A |
| AWG conductor (field wiring), min. | 28 |
| 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. | 28 |
| AWG conductor, max. | 14 |

Approvals

Approvals institutes

**Classifications**

| | |
|------------|----|
| eClass 4.1 | NK |
| eClass 5.0 | NK |
| eClass 5.1 | NK |

Similar products

| Order No. | Part designation | Version |
|------------|-------------------|---|
| 1667770000 | LM3.5/3/90 3.2 OR | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.08 mm ² , Pitch: 3.50 mm, No. of poles: 3, 90°, Box |
| 1845040000 | LM3.5/4/90 3.2 OR | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.08 mm ² , Pitch: 3.50 mm, No. of poles: 4, 90°, Box |
| 1720250000 | LM3.5/5/90 3.2 OR | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.08 mm ² , Pitch: 3.50 mm, No. of poles: 5, 90°, Box |
| 1845050000 | LM3.5/6/90 3.2 OR | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.08 mm ² , Pitch: 3.50 mm, No. of poles: 6, 90°, Box |

| | | |
|------------|--------------------|--|
| 1845060000 | LM3.5/7/90 3.2 OR | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.08 mm ² , Pitch: 3.50 mm, No. of poles: 7, 90°, Box |
| 1845070000 | LM3.5/8/90 3.2 OR | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.08 mm ² , Pitch: 3.50 mm, No. of poles: 8, 90°, Box |
| 1845080000 | LM3.5/9/90 3.2 OR | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.08 mm ² , Pitch: 3.50 mm, No. of poles: 9, 90°, Box |
| 1845090000 | LM3.5/10/90 3.2 OR | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.08 mm ² , Pitch: 3.50 mm, No. of poles: 10, 90°, Box |
| 1845100000 | LM3.5/11/90 3.2 OR | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.08 mm ² , Pitch: 3.50 mm, No. of poles: 11, 90°, Box |
| 1845110000 | LM3.5/12/90 3.2 OR | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.08 mm ² , Pitch: 3.50 mm, No. of poles: 12, 90°, Box |