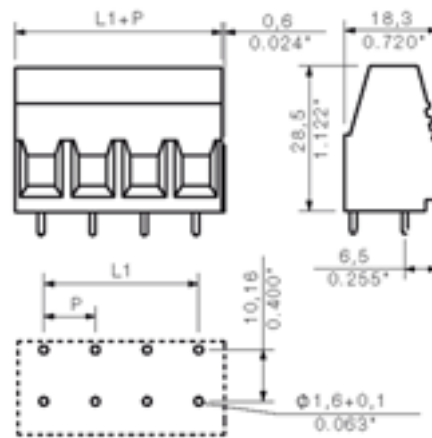




**THE DATASHEET OF
1648300000**





General ordering data

| | |
|------------------|--|
| Order No. | 1648300000 |
| Part designation | LU 10.16/3/90 2STI/4.5 |
| Version | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 16 mm ² , Pitch: 10.16 mm, No. of poles: 3, 90°, Box |
| EAN | 4008190291167 |
| Qty. | 20 pc(s). |

System parameters

| | |
|---------------------------------|--------------------------|
| Product family | System LU |
| Conductor connection system | Clamping yoke connection |
| Fitted to PCB | Soldered connection |
| Outgoing direction of conductor | 90° |
| Pitch | 10.16 mm |
| Pitch in inch | 0.4 inch |
| No. of poles | 3 |
| Fitted by customer | yes |
| Max. adjacent poles per row | 10 |
| No. of rows | 1 |
| Solder pin length | 4.5 mm |
| Dia. of fitting hole | 1.6 mm |
| Fitting hole tolerance | + 0.1 mm |
| No. of solder pins per pole | 2 |

System parameters

| | |
|---|------------------------------|
| Screwdriver blade | 1.0 x 5.5 |
| Screwdriver blade standard | DIN 5264 |
| Tightening torque, min. | 1.2 Nm |
| Tightening torque, max. | 1.5 Nm |
| Clamping screw | M 4 |
| Stripping length | 12 mm |
| L1 in mm | 20.32 mm |
| L1 in inch | 0.8 inch |
| Electric shock protection to DIN VDE 0470 | IP20 plugged/ IP10 unplugged |
| Electric shock protection to DIN VDE 0470 | Safe from finger touch |

Material data

| | |
|-------------------------------|---------------------|
| Insulating material | Wemid (PA) |
| Colour | pebble grey |
| colour chart | Similar to RAL 7032 |
| Insulating material group | I |
| Flammability class UL 94 | V-0 |
| CTI | >= 600 |
| Temperature of glow-wire test | 960 °C |
| Duration of glow-wire test | 30 S |
| Contact base material | E-Cu |
| Contact surface | tinned |
| Storage temperature, min. | -25 °C |
| Storage temperature, max. | 55 °C |

Connectable conductors

| | |
|---|-------------------------|
| Clamping range, min. | 0.14 mm ² |
| Clamping range, max. | 16 mm ² |
| AWG, min. | 22 |
| AWG, max. | 8 |
| Solid, min. H05(07) V-U | 0.5 mm ² |
| Solid, max. H05(07) V-U | 16 mm ² |
| Stranded, min. H07V-R | 6 mm ² |
| Stranded, max. H07V-R | 16 mm ² |
| Flexible, min. H05(07) V-K | 0.5 mm ² |
| Flexible, max. H05(07) V-K | 16 mm ² |
| With wire end ferrule, acc. to DIN 46 228/1, min. | 2.5 mm ² |
| With wire end ferrule, acc. to DIN 46 228/1, max. | 10 mm ² |
| w. plastic collar ferrule, DIN 46228 pt 4, min. | 2.5 mm ² |
| w. plastic collar ferrule, DIN 46228 pt 4, max. | 10 mm ² |
| Gauge to EN 60999 a x b; ø | 5.4 mm x 5.1 mm; 5.3 mm |

DIN IEC rating data

| | |
|--|---------|
| Rated current, min. No. pins (Tu=20°C) | 76 A |
| Rated current, max. No. pins (Tu=20°C) | 72 A |
| Rated current, min. No. pins (Tu=40°C) | 76 A |
| Rated current, max. No. pins (Tu=40°C) | 62 A |
| Rated voltage for overvoltage class/pollution severity II/2 | 1,000 V |
| Rated voltage for overvoltage class/pollution severity III/2 | 690 V |

DIN IEC rating data

| | |
|--|-------------------|
| Rated voltage for overvoltage class/pollution severity III/3 | 690 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 | 6 kV |
| Rated impulse withstand voltage for overvoltage class/pollution severity III/3 | 6 kV |
| Short-time withstand current resistance | 2 x 1s with 700 A |

CSA rating data

| | |
|------------------------------------|-------|
| Rated current (Use group C) | 65 A |
| Rated voltage (Use group C) | 150 V |
| Rated voltage (Use group D) | 300 V |
| Rated current (Use group D) | 10 A |
| AWG conductor (field wiring), min. | 22 |
| AWG conductor (field wiring), max. | 6 |

UL 1059 rating data

| | |
|-----------------------------|-------|
| Rated voltage (Use group C) | 150 V |
| Rated current (Use group C) | 65 A |
| Rated voltage (Use group D) | 300 V |
| Rated current (Use group D) | 10 A |
| AWG conductor, min. | 26 |
| AWG conductor, max. | 6 |

Approvals

Approvals institutes

**Downloads**

| | |
|---------------------------------------|--------|
| CAD Library (P-CAD Format - Standard) | LU.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 |
|------------|------------------------|--|
| 1648310000 | LU 10.16/2/90 2STI/4.5 | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 16 mm ² , Pitch: 10.16 mm, No. of poles: 2, 90°, Box |

| | | |
|------------|-----------------------|---|
| 9956390000 | LU 10.16/4/90 4.5 GR | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 16 mm ² , Pitch: 10.16 mm, No. of poles: 4, 90°, Box |
| 9956400000 | LU 10.16/5/90 4.5 GR | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 16 mm ² , Pitch: 10.16 mm, No. of poles: 5, 90°, Box |
| 9956410000 | LU 10.16/6/90 4.5 GR | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 16 mm ² , Pitch: 10.16 mm, No. of poles: 6, 90°, Box |
| 9956420000 | LU 10.16/7/90 4.5 GR | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 16 mm ² , Pitch: 10.16 mm, No. of poles: 7, 90°, Box |
| 9956430000 | LU 10.16/8/90 4.5 GR | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 16 mm ² , Pitch: 10.16 mm, No. of poles: 8, 90°, Box |
| 9956440000 | LU 10.16/9/90 4.5 GR | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 16 mm ² , Pitch: 10.16 mm, No. of poles: 9, 90°, Box |
| 9956450000 | LU 10.16/10/90 4.5 GR | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 16 mm ² , Pitch: 10.16 mm, No. of poles: 10, 90°, Box |

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