



#### General ordering data

|                  |  |
|------------------|--|
| Order No.        | 9956430000   |
| Part designation | LU 10.16/8/90 4.5 GR   |
| Version          | PCB terminal, Clamping yoke connection,<br>Soldered connection, Clamping range, max.: 16<br>mm <sup>2</sup> , Pitch: 10.16 mm, No. of poles: 8, 90°, Box |
| EAN              | 4032248347353  |
| 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                    | 8                        |
| 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                                  | 71.12 mm                     |
| L1 in inch                                | 2.8 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 <sup>2</sup>    |
| Clamping range, max.                              | 16 mm <sup>2</sup>      |
| AWG, min.   | 22                      |
| AWG, max.   | 8                       |
| Solid, min. H05(07) V-U                           | 0.5 mm <sup>2</sup>     |
| Solid, max. H05(07) V-U                           | 16 mm <sup>2</sup>      |
| Stranded, min. H07V-R                             | 6 mm <sup>2</sup>       |
| Stranded, max. H07V-R                             | 16 mm <sup>2</sup>      |
| Flexible, min. H05(07) V-K                        | 0.5 mm <sup>2</sup>     |
| Flexible, max. H05(07) V-K                        | 16 mm <sup>2</sup>      |
| With wire end ferrule, acc. to DIN 46 228/1, min. | 2.5 mm <sup>2</sup>     |
| With wire end ferrule, acc. to DIN 46 228/1, max. | 10 mm <sup>2</sup>      |
| w. plastic collar ferrule, DIN 46228 pt 4, min.   | 2.5 mm <sup>2</sup>     |
| w. plastic collar ferrule, DIN 46228 pt 4, max.   | 10 mm <sup>2</sup>      |
| 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       |

## Classifications

## 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 <sup>2</sup> , Pitch: 10.16 mm, No. of poles: 2, 90°, Box  |
| 1648300000 | LU 10.16/3/90 2STI/4.5 | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 16 mm <sup>2</sup> , Pitch: 10.16 mm, No. of poles: 3, 90°, Box  |
| 9956390000 | LU 10.16/4/90 4.5 GR   | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 16 mm <sup>2</sup> , 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 <sup>2</sup> , 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 <sup>2</sup> , 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 <sup>2</sup> , Pitch: 10.16 mm, No. of poles: 7, 90°, Box  |
| 9956440000 | LU 10.16/9/90 4.5 GR   | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 16 mm <sup>2</sup> , 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 <sup>2</sup> , Pitch: 10.16 mm, No. of poles: 10, 90°, Box |