



General ordering data

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| Order No. | 1596490000 |
| Part designation | LP2N5.00/10 3.2 OR |
| Version | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 6 mm ² , Pitch: 5.00 mm, No. of poles: 10, 90°, Box |
| EAN | 4008190063177 |
| Qty. | 50 pc(s). |

System parameters

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|---------------------------------|--------------------------|
| Product family | System LP |
| Conductor connection system | Clamping yoke connection |
| Fitted to PCB | Soldered connection |
| Outgoing direction of conductor | 90° |
| Pitch | 5 mm |
| Pitch in inch | 0.197 inch |
| No. of poles | 10 |
| Fitted by customer | yes |
| Max. adjacent poles per row | 48 |
| No. of rows | 2 |
| 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

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|---|------------------------|
| Screwdriver blade | 0.6 x 3.5 |
| Screwdriver blade standard | DIN 5264 |
| Tightening torque, min. | 0.5 Nm |
| Tightening torque, max. | 0.6 Nm |
| Clamping screw | M 3 |
| Stripping length | 6 mm |
| L1 in mm | 20 mm |
| L1 in inch | 0.787 inch |
| Electric shock protection to DIN VDE 0470 | IP 20 |
| Electric shock protection to DIN VDE 0470 | Safe from finger touch |

Material data

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|-------------------------------|---------------------|
| 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. | -25 °C |
| Storage temperature, max. | 55 °C |

Connectable conductors

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|---|-------------------------|
| Clamping range, min. | 0.13 mm ² |
| Clamping range, max. | 6 mm ² |
| AWG, min. | 26 |
| AWG, max. | 12 |
| Solid, min. H05(07) V-U | 0.5 mm ² |
| Solid, max. H05(07) V-U | 6 mm ² |
| Flexible, min. H05(07) V-K | 0.5 mm ² |
| Flexible, max. H05(07) V-K | 4 mm ² |
| With wire end ferrule, acc. to DIN 46 228/1, min. | 0.5 mm ² |
| With wire end ferrule, acc. to DIN 46 228/1, max. | 2.5 mm ² |
| w. plastic collar ferrule, DIN 46228 pt 4, min. | 0.5 mm ² |
| w. plastic collar ferrule, DIN 46228 pt 4, max. | 2.5 mm ² |
| Gauge to EN 60999 a x b; ø | 2.8 mm x 2.4 mm; 3.0 mm |

DIN IEC rating data

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|--|-------|
| Rated current, min. No. pins (Tu=20°C) | 32 A |
| Rated current, max. No. pins (Tu=20°C) | 28 A |
| Rated current, min. No. pins (Tu=40°C) | 30 A |
| Rated current, max. No. pins (Tu=40°C) | 24 A |
| Rated voltage for overvoltage class/pollution severity II/2 | 500 V |
| Rated voltage for overvoltage class/pollution severity III/2 | 250 V |
| Rated voltage for overvoltage class/pollution severity III/3 | 250 V |

DIN IEC rating data

| | |
|--|-------------------|
| 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

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|------------------------------------|-------|
| Rated voltage (Use group D) | 300 V |
| Rated current (Use group D) | 10 A |
| AWG conductor (field wiring), min. | 26 |
| AWG conductor (field wiring), max. | 12 |

UL 1059 rating data

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|-----------------------------|-------|
| Rated voltage (Use group D) | 300 V |
| Rated current (Use group D) | 10 A |
| AWG conductor, min. | 26 |
| AWG conductor, max. | 12 |

Approvals

Approvals institutes



Downloads

| | |
|---------------------------------------|----------|
| CAD Library (P-CAD Format - Standard) | LP2N.lib |
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Classifications

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| 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 |
|------------|-------------------|--|
| 1635160000 | LP2N5.00/4 3.2 OR | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 6 mm ² , Pitch: 5.00 mm, No. of poles: 4, 90°, Box |
| 1625560000 | LP2N5.00/6 3.2 OR | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 6 mm ² , Pitch: 5.00 mm, No. of poles: 6, 90°, Box |
| 1596450000 | LP2N5.00/8 3.2 OR | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 6 mm ² , Pitch: 5.00 mm, No. of poles: 8, 90°, Box |

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|------------|--------------------|---|
| 1596550000 | LP2N5.00/16 3.2 OR | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 6 mm ² , Pitch: 5.00 mm, No. of poles: 16, 90°, Box |
| 1596590000 | LP2N5.00/20 3.2 OR | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 6 mm ² , Pitch: 5.00 mm, No. of poles: 20, 90°, Box |
| 1596630000 | LP2N5.00/24 3.2 OR | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 6 mm ² , Pitch: 5.00 mm, No. of poles: 24, 90°, Box |
| 1596670000 | LP2N5.00/30 3.2 OR | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 6 mm ² , Pitch: 5.00 mm, No. of poles: 30, 90°, Box |