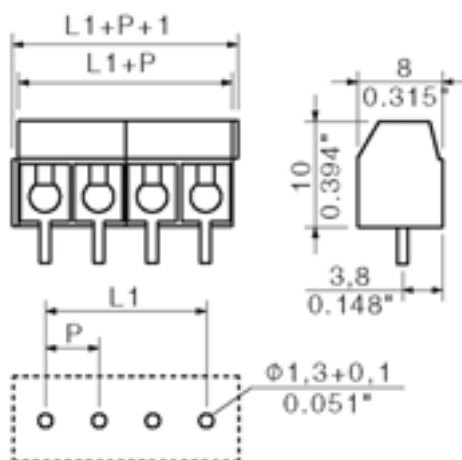




#### General ordering data

|                  |                                                                                                                                                  |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Order No.        | 1791620000                                                                                                                                       |
| Part designation | PM 5.00/3/90 3.5 OR                                                                                                                              |
| Version          | PCB terminal, Leaf spring connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 3, 90°, Box |
| EAN              | 4032248223015                                                                                                                                    |
| Qty.             | 500 pc(s).                                                                                                                                       |

#### System parameters

|                                           |                        |
|-------------------------------------------|------------------------|
| Product family                            | System PM              |
| Conductor connection system               | Leaf spring connection |
| Fitted to PCB                             | Soldered connection    |
| Outgoing direction of conductor           | 90°                    |
| Pitch                                     | 5 mm                   |
| Pitch in inch                             | 0.197 inch             |
| No. of poles                              | 3                      |
| Fitted by customer                        | yes                    |
| Max. adjacent poles per row               | 24                     |
| No. of rows                               | 1                      |
| 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                      |
| 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                                  | 10 mm                  |
| L1 in inch                                | 0.394 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 | I                   |
| Flammability class UL 94  | V-0                 |
| CTI                       | $\geq 600$          |
| Contact base material     | Copper alloy        |
| Contact surface           | tinned              |
| Storage temperature, min. | -25 °C              |
| Storage temperature, max. | 55 °C               |

**Connectable conductors**

|                                                   |                      |
|---------------------------------------------------|----------------------|
| Clamping range, min.                              | 0.13 mm <sup>2</sup> |
| Clamping range, max.                              | 2.5 mm <sup>2</sup>  |
| AWG, min.                                         | 26                   |
| AWG, max.                                         | 14                   |
| Solid, min. H05(07) V-U                           | 0.13 mm <sup>2</sup> |
| Solid, max. H05(07) V-U                           | 2.5 mm <sup>2</sup>  |
| Flexible, min. H05(07) V-K                        | 0.13 mm <sup>2</sup> |
| Flexible, max. H05(07) V-K                        | 2.5 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 mm <sup>2</sup>  |
| 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>  |

**DIN IEC rating data**

|                                                                                |                   |
|--------------------------------------------------------------------------------|-------------------|
| Rated current, min. No. pins (Tu=20°C)                                         | 24 A              |
| Rated current, max. No. pins (Tu=20°C)                                         | 24 A              |
| Rated current, min. No. pins (Tu=40°C)                                         | 24 A              |
| Rated current, max. No. pins (Tu=40°C)                                         | 24 A              |
| Rated voltage for overvoltage class/pollution severity II/2                    | 600 V             |
| Rated voltage for overvoltage class/pollution severity III/2                   | 250 V             |
| 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 |

**CSA rating data**

|                                    |       |
|------------------------------------|-------|
| 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. | 14    |

**UL 1059 rating data**

|                             |       |
|-----------------------------|-------|
| Rated voltage (Use group D) | 300 V |
| Rated current (Use group D) | 10 A  |
| AWG conductor, min.         | 26    |
| AWG conductor, max.         | 14    |

**Approvals**

Approvals institutes

**Downloads**

|                                       |        |
|---------------------------------------|--------|
| CAD Library (P-CAD Format - Standard) | PM.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                                                                                                                                          |
|------------|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| 1791610000 | PM 5.00/2/90 3.5 OR | PCB terminal, Leaf spring connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 2, 90°, Box |
| 1791630000 | PM 5.00/2/90 3.5 SW | PCB terminal, Leaf spring connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 2, 90°, Box |
| 1912480000 | PM 5.00/2/90 3.5 GR | PCB terminal, Leaf spring connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 2, 90°, Box |
| 1912450000 | PM 5.00/2/90 3.5 GN | PCB terminal, Leaf spring connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 2, 90°, Box |
| 1791640000 | PM 5.00/3/90 3.5 SW | PCB terminal, Leaf spring connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 3, 90°, Box |
| 1912490000 | PM 5.00/3/90 3.5 GR | PCB terminal, Leaf spring connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 3, 90°, Box |
| 1912470000 | PM 5.00/3/90 3.5 GN | PCB terminal, Leaf spring connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 3, 90°, Box |