



#### General ordering data

|                  |   |
|------------------|---|
| Order No.        | 9993420000  |
| Part designation | LM5.00/16/90 3.5 SW   |
| Version          | PCB terminal, Clamping yoke connection,<br>Soldered connection, Clamping range, max.: 2.5<br>mm <sup>2</sup> , Pitch: 5.00 mm, Number of poles: 16, 90°,<br>Box |
| EAN              | 4032248375493   |
| Qty              | 50 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                           | 5 mm                     |
| Pitch in inch                   | 0.197 inch               |
| Number of poles                 | 16                       |
| Fitted by customer              | yes                      |
| Max. adjacent poles per row     | 24                       |
| No. of rows                     | 1                        |
| Length of soldering post        | 3.5 mm                   |
| Dia. of fitting hole            | 1.3 mm                   |
| Fitting hole tolerance          | + 0.1 mm                 |

#### System parameters

|   |                        |
|---|------------------------|
| 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                                  | 75 mm                  |
| L1 in inch                                | 2.953 inch             |
| Electric shock protection to DIN VDE 0470 | IP 20                  |
| Electric shock protection to DIN VDE 0470 | Safe from finger touch |

#### Material data

|                               |                         |
|-------------------------------|-------------------------|
| Insulation material           | Wemid (PA)              |
| Colour                        | black                   |
| colour chart                  | Similar to RAL 9011     |
| Insulating material group     | I                       |
| UL 94 combustibility class    | V-0                     |
| CTI                           | >= 600                  |
| Temperature of glow-wire test | 750 °C                  |
| Duration of glow-wire test    | 30 V DC (20.4...28.8 V) |
| Contact base material         | Cu alloy                |
| Contact surface               | tinned                  |
| Storage temperature, min.     | -25 °C                  |
| Storage temperature, max.     | 55 °C                   |

#### Connectable conductors

|   |                        |
|---|------------------------|
| Clamping range, min.                            | 0.2 mm <sup>2</sup>    |
| Clamping range, max.                            | 2.5 mm <sup>2</sup>    |
| AWG, min.                                       | 24                     |
| AWG, max.                                       | 14                     |
| O.D. of conductor insulation, max.              | 2.9 mm                 |
| Solid, min. H05(07) V-U                         | 0.2 mm <sup>2</sup>    |
| Solid, max. H05(07) V-U                         | 2.5 mm <sup>2</sup>    |
| fine-stranded, min. H05(07) V-U                 | 0.2 mm <sup>2</sup>    |
| fine-stranded, max. H05(07) V-U                 | 1.5 mm <sup>2</sup>    |
| Wire end ferrule , DIN 46 228/1, min.           | 0.25 mm <sup>2</sup>   |
| Wire end ferrule , 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>    |
| Gauge to EN 60999 a x b; ø                      | 2.4 mm x 1.5 mm; 1.9mm |

#### DIN IEC rating data

|  |        |
|--|--------|
| Rated current, min. No. pins (Tu=20°C)                       | 17.5 A |
| Rated current, max. No. pins (Tu=20°C)                       | 16 A   |
| Rated current, min. No. pins (Tu=40°C)                       | 17.5 A |
| Rated current, max. No. pins (Tu=40°C)                       | 14.2 A |
| Rated voltage for overvoltage class/pollution severity II/2  | 630 V  |
| Rated voltage for overvoltage class/pollution severity III/2 | 320 V  |

#### DIN IEC rating data

|  |                   |
|--|-------------------|
| 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, user group D        | 300 V |
| Rated current, user group D        | 10 A  |
| AWG conductor (field wiring), min. | 24    |
| AWG conductor (field wiring), max. | 14    |

#### UL 1059 rating data

|                             |       |
|-----------------------------|-------|
| Rated voltage, user group D | 300 V |
| Rated current, user group D | 10 A  |
| AWG conductor, min.         | 24    |
| AWG conductor, max.         | 14    |

#### Approvals

|               |                        |
|---------------|------------------------|
| Approval body | CSA; CURUS; GOST; ROHS |
|---------------|------------------------|

#### Downloads

|                                       |        |
|---------------------------------------|--------|
| CAD Library (P-CAD Format - ASCII)    | LM.LIA |
| CAD Library (P-CAD Format - Standard) | LM.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  |
|------------|---------------------|--|
| 1913020000 | LM 5.00/6/90 GN     | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, Number of poles: 6, 90°, Box  |
| 1913210000 | LM 5.00/10/90 GR    | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, Number of poles: 10, 90°, Box |
| 9993480000 | LM5.00/22/90 3.5 SW | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, Number of poles: 22, 90°, Box |

|            |                     |  |
|------------|---------------------|--|
| 9993370000 | LM5.00/11/90 3.5 SW | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, Number of poles: 11, 90°, Box |
| 1845310000 | LM5.00/5/90 3.5OR   | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, Number of poles: 5, 90°, Box  |
| 1845330000 | LM5.00/7/90 3.5OR   | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, Number of poles: 7, 90°, Box  |
| 1715260000 | LM5.00/3/90 SW      | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, Number of poles: 3, 90°, Box  |
| 1913090000 | LM 5.00/11/90 GN    | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, Number of poles: 11, 90°, Box |
| 1913190000 | LM 5.00/8/90 GR     | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, Number of poles: 8, 90°, Box  |
| 1715380000 | LM5.00/3/90 GN      | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, Number of poles: 3, 90°, Box  |
| 1913000000 | LM 5.00/4/90 GN     | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, Number of poles: 4, 90°, Box  |
| 9993390000 | LM5.00/13/90 3.5 SW | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, Number of poles: 13, 90°, Box |
| 9993300000 | LM5.00/4/90 3.5 SW  | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, Number of poles: 4, 90°, Box  |
| 1913180000 | LM 5.00/7/90 GR     | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, Number of poles: 7, 90°, Box  |
| 9993350000 | LM5.00/9/90 3.5 SW  | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, Number of poles: 9, 90°, Box  |
| 1715310000 | LM5.00/2/90 OR      | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, Number of poles: 2, 90°, Box  |
| 1913070000 | LM 5.00/10/90 GN    | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, Number of poles: 10, 90°, Box |
| 9993440000 | LM5.00/18/90 3.5 SW | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, Number of poles: 18, 90°, Box |
| 1913100000 | LM 5.00/12/90 GN    | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, Number of poles: 12, 90°, Box |
| 9993460000 | LM5.00/20/90 3.5 SW | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, Number of poles: 20, 90°, Box |

|            |                     |  |
|------------|---------------------|--|
| 1913150000 | LM 5.00/4/90 GR     | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, Number of poles: 4, 90°, Box  |
| 9993340000 | LM5.00/8/90 3.5 SW  | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, Number of poles: 8, 90°, Box  |
| 1715250000 | LM5.00/2/90 SW      | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, Number of poles: 2, 90°, Box  |
| 9993310000 | LM5.00/5/90 3.5 SW  | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, Number of poles: 5, 90°, Box  |
| 9993470000 | LM5.00/21/90 3.5 SW | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, Number of poles: 21, 90°, Box |
| 1845320000 | LM5.00/6/90 3.5OR   | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, Number of poles: 6, 90°, Box  |
| 9993490000 | LM5.00/23/90 3.5 SW | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, Number of poles: 23, 90°, Box |
| 9993400000 | LM5.00/14/90 3.5 SW | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, Number of poles: 14, 90°, Box |
| 1845380000 | LM5.00/12/90 3.5OR  | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, Number of poles: 12, 90°, Box |
| 1913050000 | LM 5.00/8/90 GN     | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, Number of poles: 8, 90°, Box  |
| 1913010000 | LM 5.00/5/90 GN     | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, Number of poles: 5, 90°, Box  |
| 9993410000 | LM5.00/15/90 3.5 SW | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, Number of poles: 15, 90°, Box |
| 1845370000 | LM5.00/11/90 3.5OR  | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, Number of poles: 11, 90°, Box |
| 1845360000 | LM5.00/10/90 3.5OR  | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, Number of poles: 10, 90°, Box |
| 9993450000 | LM5.00/19/90 3.5 SW | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, Number of poles: 19, 90°, Box |
| 1913220000 | LM 5.00/11/90 GR    | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, Number of poles: 11, 90°, Box |
| 9993360000 | LM5.00/10/90 3.5 SW | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, Number of poles: 10, 90°, Box |

|            |                     |  |
|------------|---------------------|--|
| 1913110000 | LM 5.00/2/90 GR     | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, Number of poles: 2, 90°, Box  |
| 9993430000 | LM5.00/17/90 3.5 SW | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, Number of poles: 17, 90°, Box |
| 9993320000 | LM5.00/6/90 3.5 SW  | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, Number of poles: 6, 90°, Box  |
| 1715370000 | LM5.00/2/90 GN      | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, Number of poles: 2, 90°, Box  |
| 9993330000 | LM5.00/7/90 3.5 SW  | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, Number of poles: 7, 90°, Box  |
| 1913060000 | LM 5.00/9/90 GN     | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, Number of poles: 9, 90°, Box  |
| 1913030000 | LM 5.00/7/90 GN     | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, Number of poles: 7, 90°, Box  |
| 1845350000 | LM5.00/9/90 3.5OR   | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, Number of poles: 9, 90°, Box  |
| 9993380000 | LM5.00/12/90 3.5 SW | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, Number of poles: 12, 90°, Box |
| 1715320000 | LM5.00/3/90 OR      | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, Number of poles: 3, 90°, Box  |
| 1913230000 | LM 5.00/12/90 GR    | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, Number of poles: 12, 90°, Box |
| 1913160000 | LM 5.00/5/90 GR     | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, Number of poles: 5, 90°, Box  |
| 1913170000 | LM 5.00/6/90 GR     | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, Number of poles: 6, 90°, Box  |
| 1913200000 | LM 5.00/9/90 GR     | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, Number of poles: 9, 90°, Box  |
| 9993420000 | LM5.00/16/90 3.5 SW | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, Number of poles: 16, 90°, Box |
| 1913120000 | LM 5.00/3/90 GR     | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, Number of poles: 3, 90°, Box  |
| 1845340000 | LM5.00/8/90 3.5OR   | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, Number of poles: 8, 90°, Box  |

|            |                     |  |
|------------|---------------------|--|
| 1821490000 | LM5.00/4/90 3.5OR   | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, Number of poles: 4, 90°, Box  |
| 9993500000 | LM5.00/24/90 3.5 SW | PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, Number of poles: 24, 90°, Box |