



#### General ordering data

Order No.	1913160000
Part designation	LM 5.00/5/90 GR
Version	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 5, 90°, Box
EAN	4032248543403
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
No. of poles	5
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

**System parameters**

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	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**

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	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**

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>
Flexible, min. H05(07) V-K	0.2 mm <sup>2</sup>
Flexible, max. H05(07) V-K	1.5 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>
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 (Use group D)	300 V
Rated current (Use group D)	10 A
AWG conductor (field wiring), min.	24
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.	24
AWG conductor, max.	14

**Approvals**

Approvals institutes

**Downloads**

CAD Library (P-CAD Format - Standard)	LM.lib
---------------------------------------	--------

**Classifications**

ETIM 3.0	EC001284
eClass 5.1	27-26-11-01

**Similar products**

Order No.	Part designation	Version
-----------	------------------	---------

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, No. of poles: 2, 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, No. of poles: 2, 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, No. of poles: 2, 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, No. of poles: 2, 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, No. of poles: 3, 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, No. of poles: 3, 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, No. of poles: 3, 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, No. of poles: 3, 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, No. of poles: 4, 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, No. of poles: 4, 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, No. of poles: 4, 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, No. of poles: 4, 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, No. of poles: 5, 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, No. of poles: 5, 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, No. of poles: 5, 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, No. of poles: 6, 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, No. of poles: 6, 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, No. of poles: 6, 90°, Box
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, No. of poles: 6, 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, No. of poles: 7, 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, No. of poles: 7, 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, No. of poles: 7, 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, No. of poles: 7, 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, No. of poles: 8, 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, No. of poles: 8, 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, No. of poles: 8, 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, No. of poles: 8, 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, No. of poles: 9, 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, No. of poles: 9, 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, No. of poles: 9, 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, No. of poles: 9, 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, No. of poles: 10, 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, No. 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, No. of poles: 10, 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, No. of poles: 10, 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, No. of poles: 10, 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, No. of poles: 11, 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, No. of poles: 11, 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, No. of poles: 11, 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, No. of poles: 12, 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, No. of poles: 12, 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, No. of poles: 12, 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, No. of poles: 12, 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, No. of poles: 13, 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, No. of poles: 14, 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, No. of poles: 15, 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, No. of poles: 16, 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, No. of poles: 17, 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, No. of poles: 18, 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, No. of poles: 19, 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, No. of poles: 20, 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, No. of poles: 21, 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, No. of poles: 22, 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, No. of poles: 23, 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, No. of poles: 24, 90°, Box