



#### General ordering data

Order No.	9993590000
Part designation	LM5.00/12/135 3.5 SW
Version	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, Number of poles: 12, 135°, Box
EAN	4032248375929
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	135°
Pitch	5 mm
Pitch in inch	0.197 inch
Number of poles	12
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	55 mm
L1 in inch	2.165 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
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#### 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
9993650000	LM5.00/18/135 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, 135°, Box
1913440000	LM 5.00/2/135 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, 135°, Box
1913450000	LM 5.00/3/135 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, 135°, Box

1913510000	LM 5.00/9/135 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, 135°, Box
9993570000	LM5.00/10/135 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, 135°, Box
1913500000	LM 5.00/8/135 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, 135°, Box
1715350000	LM5.00/2/135 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, 135°, Box
1845400000	LM5.00/5/135 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, 135°, Box
1913490000	LM 5.00/7/135 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, 135°, Box
1715360000	LM5.00/3/135 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, 135°, Box
1845420000	LM5.00/7/135 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, 135°, Box
1913350000	LM 5.00/6/135 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, 135°, Box
1913400000	LM 5.00/9/135 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, 135°, Box
9993520000	LM5.00/5/135 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, 135°, Box
9993690000	LM5.00/22/135 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, 135°, Box
1845430000	LM5.00/8/135 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, 135°, Box
9993580000	LM5.00/11/135 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, 135°, Box
9993710000	LM5.00/24/135 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, 135°, Box
1913330000	LM 5.00/4/135 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, 135°, Box
1913530000	LM 5.00/11/135 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, 135°, Box

9993510000	LM5.00/4/135 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, 135°, Box
1913420000	LM 5.00/11/135 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, 135°, Box
1715300000	LM5.00/3/135 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, 135°, Box
1913410000	LM 5.00/10/135 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, 135°, Box
9993700000	LM5.00/23/135 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, 135°, Box
1845470000	LM5.00/12/135 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, 135°, Box
9993640000	LM5.00/17/135 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, 135°, Box
1845410000	LM5.00/6/135 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, 135°, Box
9993560000	LM5.00/9/135 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, 135°, Box
9993670000	LM5.00/20/135 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, 135°, Box
1845460000	LM5.00/11/135 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, 135°, Box
9993620000	LM5.00/15/135 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, 135°, Box
9993610000	LM5.00/14/135 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, 135°, Box
1913540000	LM 5.00/12/135 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, 135°, Box
9993600000	LM5.00/13/135 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, 135°, Box
9993590000	LM5.00/12/135 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, 135°, Box
1913370000	LM 5.00/8/135 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, 135°, Box

1715410000	LM5.00/2/135 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, 135°, Box
1913430000	LM 5.00/12/135 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, 135°, Box
9993540000	LM5.00/7/135 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, 135°, Box
1913480000	LM 5.00/6/135 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, 135°, Box
9993680000	LM5.00/21/135 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, 135°, Box
1913340000	LM 5.00/5/135 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, 135°, Box
1913460000	LM 5.00/4/135 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, 135°, Box
9993660000	LM5.00/19/135 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, 135°, Box
1845440000	LM5.00/9/135 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, 135°, Box
1913520000	LM 5.00/10/135 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, 135°, Box
1845390000	LM5.00/4/135 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, 135°, Box
1715290000	LM5.00/2/135 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, 135°, Box
1913360000	LM 5.00/7/135 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, 135°, Box
1715420000	LM5.00/3/135 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, 135°, Box
1913470000	LM 5.00/5/135 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, 135°, Box
9993530000	LM5.00/6/135 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, 135°, Box
1845450000	LM5.00/10/135 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, 135°, Box

9993630000	LM5.00/16/135 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, 135°, Box
9993550000	LM5.00/8/135 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, 135°, Box