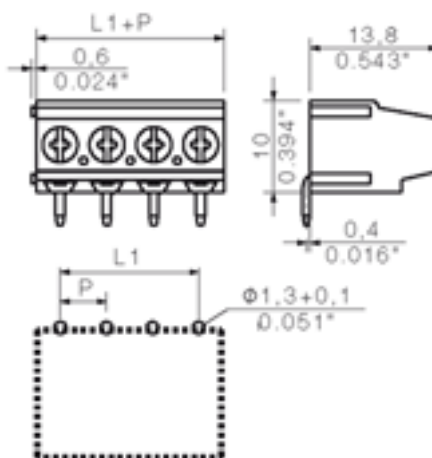




General ordering data

Order No.	9993800000
Part designation	LM5.00/12/180 3.5 SW
Version	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm ² , Pitch: 5.00 mm, Number of poles: 12, 180°, Box
EAN	4032248376247
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	180°
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 10
Electric shock protection to DIN VDE 0470	Safe from back-of-hand 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 ²
Clamping range, max.	2.5 mm ²
AWG, min.	24
AWG, max.	14
O.D. of conductor insulation, max.	2.9 mm
Solid, min. H05(07) V-U	0.2 mm ²
Solid, max. H05(07) V-U	2.5 mm ²
fine-stranded, min. H05(07) V-U	0.2 mm ²
fine-stranded, max. H05(07) V-U	1.5 mm ²
Wire end ferrule , DIN 46 228/1, min.	0.25 mm ²
Wire end ferrule , DIN 46 228/1, max.	1.5 mm ²
w. plastic collar ferrule, DIN 46228 pt 4, min.	0.25 mm ²
w. plastic collar ferrule, DIN 46228 pt 4, max.	1.5 mm ²
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
1913250000	LM 5.00/2/180 GR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm ² , Pitch: 5.00 mm, Number of poles: 2, 180°, Box
9993840000	LM5.00/16/180 3.5 SW	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm ² , Pitch: 5.00 mm, Number of poles: 16, 180°, Box
1913300000	LM 5.00/3/180 GR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm ² , Pitch: 5.00 mm, Number of poles: 3, 180°, Box

9993820000	LM5.00/14/180 3.5 SW	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm ² , Pitch: 5.00 mm, Number of poles: 14, 180°, Box
9993860000	LM5.00/18/180 3.5 SW	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm ² , Pitch: 5.00 mm, Number of poles: 18, 180°, Box
9993790000	LM5.00/11/180 3.5 SW	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm ² , Pitch: 5.00 mm, Number of poles: 11, 180°, Box
1715280000	LM5.00/3/180 SW	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm ² , Pitch: 5.00 mm, Number of poles: 3, 180°, Box
1715390000	LM5.00/2/180 GN	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm ² , Pitch: 5.00 mm, Number of poles: 2, 180°, Box
9993760000	LM5.00/8/180 3.5 SW	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm ² , Pitch: 5.00 mm, Number of poles: 8, 180°, Box
9993890000	LM5.00/22/180 3.5 SW	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm ² , Pitch: 5.00 mm, Number of poles: 22, 180°, Box
9993910000	LM5.00/24/180 3.5 SW	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm ² , Pitch: 5.00 mm, Number of poles: 24, 180°, Box
1715400000	LM5.00/3/180 GN	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm ² , Pitch: 5.00 mm, Number of poles: 3, 180°, Box
9993720000	LM5.00/4/180 3.5 SW	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm ² , Pitch: 5.00 mm, Number of poles: 4, 180°, Box
9993010000	LM5.00/19/180 3.5 SW	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm ² , Pitch: 5.00 mm, Number of poles: 19, 180°, Box
1715270000	LM5.00/2/180 SW	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm ² , Pitch: 5.00 mm, Number of poles: 2, 180°, Box
9993780000	LM5.00/10/180 3.5 SW	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm ² , Pitch: 5.00 mm, Number of poles: 10, 180°, Box
9993850000	LM5.00/17/180 3.5 SW	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm ² , Pitch: 5.00 mm, Number of poles: 17, 180°, Box
9993740000	LM5.00/6/180 3.5 SW	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm ² , Pitch: 5.00 mm, Number of poles: 6, 180°, Box
9993810000	LM5.00/13/180 3.5 SW	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm ² , Pitch: 5.00 mm, Number of poles: 13, 180°, Box
9993750000	LM5.00/7/180 3.5 SW	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm ² , Pitch: 5.00 mm, Number of poles: 7, 180°, Box

9993770000	LM5.00/9/180 3.5 SW	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm ² , Pitch: 5.00 mm, Number of poles: 9, 180°, Box
9993730000	LM5.00/5/180 3.5 SW	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm ² , Pitch: 5.00 mm, Number of poles: 5, 180°, Box
9993880000	LM5.00/21/180 3.5 SW	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm ² , Pitch: 5.00 mm, Number of poles: 21, 180°, Box
9993900000	LM5.00/23/180 3.5 SW	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm ² , Pitch: 5.00 mm, Number of poles: 23, 180°, Box
9993800000	LM5.00/12/180 3.5 SW	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm ² , Pitch: 5.00 mm, Number of poles: 12, 180°, Box
1715330000	LM5.00/2/180 OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm ² , Pitch: 5.00 mm, Number of poles: 2, 180°, Box
9993870000	LM5.00/20/180 3.5 SW	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm ² , Pitch: 5.00 mm, Number of poles: 20, 180°, Box
9993830000	LM5.00/15/180 3.5 SW	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm ² , Pitch: 5.00 mm, Number of poles: 15, 180°, Box
1715340000	LM5.00/3/180 OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm ² , Pitch: 5.00 mm, Number of poles: 3, 180°, Box