



**General ordering data**

Order No.	9993980000
Part designation	LM5.08/10/90 3.5SW
Version	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, Number of poles: 10, 90°, Box
EAN	4032248376193
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	5.08 mm
Pitch in inch	0.2 inch
Number of poles	10
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	45.72 mm
L1 in inch	1.8 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
1915700000	LM5.08/3/90 GR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, Number of poles: 2, 90°, Box
9994030000	LM5.08/15/90 3.5SW	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, Number of poles: 15, 90°, Box
9993970000	LM5.08/9/90 3.5SW	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, Number of poles: 9, 90°, Box

1915670000	LM 5.08/11/90 GN	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, Number of poles: 11, 90°, Box
9994270000	LM5.08/18/90 3.5OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, Number of poles: 18, 90°, Box
1716080000	LM5.08/2/90 OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, Number of poles: 2, 90°, Box
9994040000	LM5.08/16/90 3.5SW	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, Number of poles: 16, 90°, Box
9994200000	LM5.08/11/90 3.5OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, Number of poles: 11, 90°, Box
1915780000	LM 5.08/11/90 GR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, Number of poles: 11, 90°, Box
9994250000	LM5.08/16/90 3.5OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, Number of poles: 16, 90°, Box
9993920000	LM5.08/4/90 3.5SW	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, Number of poles: 4, 90°, Box
1915710000	LM 5.08/4/90 GR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, Number of poles: 3, 90°, Box
9994310000	LM5.08/22/90 3.5OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, Number of poles: 22, 90°, Box
9993980000	LM5.08/10/90 3.5SW	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, Number of poles: 10, 90°, Box
9994230000	LM5.08/14/90 3.5OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, Number of poles: 14, 90°, Box
1915140000	LM 5.08/4/90 GN	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, Number of poles: 4, 90°, Box
9993940000	LM5.08/6/90 3.5SW	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, Number of poles: 6, 90°, Box
1915730000	LM 5.08/6/90 GR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, Number of poles: 6, 90°, Box
9994220000	LM5.08/13/90 3.5OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, Number of poles: 13, 90°, Box
1716020000	LM5.08/2/90 SW	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, Number of poles: 2, 90°, Box

9994320000	LM5.08/23/90 3.5OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, Number of poles: 23, 90°, Box
9994080000	LM5.08/20/90 3.5SW	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, Number of poles: 20, 90°, Box
9994160000	LM5.08/7/90 3.5OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, Number of poles: 7, 90°, Box
1915680000	LM 5.08/12/90 GN	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, Number of poles: 12, 90°, Box
9994240000	LM5.08/15/90 3.5OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, Number of poles: 15, 90°, Box
1915610000	LM 5.08/5/90 GN	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, Number of poles: 5, 90°, Box
9994110000	LM5.08/23/90 3.5SW	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, Number of poles: 23, 90°, Box
9994190000	LM5.08/10/90 3.5OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, Number of poles: 10, 90°, Box
1716150000	LM5.08/3/90 GN	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, Number of poles: 3, 90°, Box
1915750000	LM 5.08/8/90 GR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, Number of poles: 8, 90°, Box
9994100000	LM5.08/22/90 3.5SW	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, Number of poles: 22, 90°, Box
1915640000	LM 5.08/8/90 GN	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, Number of poles: 8, 90°, Box
9994150000	LM5.08/6/90 3.5OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, Number of poles: 6, 90°, Box
9993930000	LM5.08/5/90 3.5SW	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, Number of poles: 5, 90°, Box
9994060000	LM5.08/18/90 3.5SW	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, Number of poles: 18, 90°, Box
1915720000	LM 5.08/5/90 GR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, Number of poles: 5, 90°, Box
9994090000	LM5.08/21/90 3.5SW	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, Number of poles: 21, 90°, Box

9994170000	LM5.08/8/90 3.5OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, Number of poles: 8, 90°, Box
1915770000	LM 5.08/10/90 GR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, Number of poles: 10, 90°, Box
9993950000	LM5.08/7/90 3.5SW	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, Number of poles: 7, 90°, Box
9994050000	LM5.08/17/90 3.5SW	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, Number of poles: 17, 90°, Box
9994020000	LM5.08/14/90 3.5SW	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, Number of poles: 14, 90°, Box
9994210000	LM5.08/12/90 3.5OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, Number of poles: 12, 90°, Box
1716090000	LM5.08/3/90 OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, Number of poles: 3, 90°, Box
9994290000	LM5.08/20/90 3.5OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, Number of poles: 20, 90°, Box
9994120000	LM5.08/24/90 3.5SW	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, Number of poles: 24, 90°, Box
9994300000	LM5.08/21/90 3.5OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, Number of poles: 21, 90°, Box
9994260000	LM5.08/17/90 3.5OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, Number of poles: 17, 90°, Box
9994130000	LM5.08/4/90 3.5OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, Number of poles: 4, 90°, Box
1915630000	LM 5.08/7/90 GN	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, Number of poles: 7, 90°, Box
9994180000	LM5.08/9/90 3.5OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, Number of poles: 9, 90°, Box
1716140000	LM5.08/2/90 GN	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, Number of poles: 2, 90°, Box
1915690000	LM 5.08/2/90 GR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, Number of poles: 2, 90°, Box
9994280000	LM5.08/19/90 3.5OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, Number of poles: 19, 90°, Box

1716030000	LM5.08/3/90 SW	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, Number of poles: 3, 90°, Box
9994000000	LM5.08/12/90 3.5SW	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, Number of poles: 12, 90°, Box
1915650000	LM 5.08/9/90 GN	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, Number of poles: 9, 90°, Box
1915740000	LM 5.08/7/90 GR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, Number of poles: 7, 90°, Box
1915760000	LM 5.08/9/90 GR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, Number of poles: 9, 90°, Box
1915660000	LM 5.08/10/90 GN	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, Number of poles: 10, 90°, Box
9994140000	LM5.08/5/90 3.5OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, Number of poles: 5, 90°, Box
9993960000	LM5.08/8/90 3.5SW	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, Number of poles: 8, 90°, Box
9993990000	LM5.08/11/90 3.5SW	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, Number of poles: 11, 90°, Box
9994070000	LM5.08/19/90 3.5SW	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, Number of poles: 19, 90°, Box
9994010000	LM5.08/13/90 3.5SW	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, Number of poles: 13, 90°, Box
1915620000	LM 5.08/6/90 GN	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, Number of poles: 6, 90°, Box
1915790000	LM 5.08/12/90 GR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, Number of poles: 12, 90°, Box
9994330000	LM5.08/24/90 3.5OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, Number of poles: 24, 90°, Box