

System LM
LM 5.00/10/90 3.5SN OR BX

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PCB terminal with proven clamping yoke connection at 5.00 and 5.08 mm pitch. Conductor outlet direction 90°, 135° and 180°. Suitable for conductor cross-sections up to 2.5 mm².

- 0.13 - 2.50 mm² (IEC) / 26 - 14 AWG (UL)
- 630 V (IEC) / 300 V (UL)
- 17.5 A (IEC) / 20 A (UL)

General ordering data

Order No.	1845360000
Type	LM 5.00/10/90 3.5SN OR BX
Version	PCB terminal, 5.00 mm, No. of poles: 10, 90°, Solder pin length: 3.5 mm, tinned, orange, Clamping yoke connection, Clamping range, rated connection, max.: 2.5 mm², Box
Product data	IEC: 630 V / 17.5 A / 0.2 - 2.5 mm² UL: 300 V / 20 A / AWG 24 - AWG 14
EAN	4032248359080
Qty.	50 pc(s).
Packaging	Box

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Technical data

System parameters

Product family	System LM	Conductor connection system	Clamping yoke connection
Fitted to PCB	Solder connection	Outgoing direction of conductor	90°
Pitch in mm	5 mm	Pitch in inch	0.197 inch
No. of poles	10	Fitted by customer	Yes
Max. adjacent poles per row	24	No. of rows	1
Solder pin length	3.5 mm	Diameter of solder eyelet	1.3 mm
Tolerance of the diameter of the solder eyelet	+ 0,1 mm	Number 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 mm	L1 in inch	1.772 inch
Electric shock protection to DIN VDE 0470	IP 20	Electric shock protection to DIN VDE 57 106	Safe from finger touch

Material data

Insulating material	Wemid (PA)	Colour	orange
Flammability class UL 94	V-0	CTI	≥ 600
Temperature of glow-wire test	750 °C	Duration of glow-wire test	30 s
Contact material	Copper alloy	Contact surface	tinned
Contact base material	Copper alloy		

Connectable conductors

Clamping range, rated connection, min.	0.2 mm ²	Clamping range, rated connection, max.	2.5 mm ²
Conductor connection cross-section AWG, min.	AWG 24	Conductor connection cross-section AWG, max.	AWG 14
Solid, min. H05(07) V-U	0.2 mm ²	Solid, max. H05(07) V-U	2.5 mm ²
Flexible, min. H05(07) V-K	0.2 mm ²	Flexible, max. H05(07) V-K	1.5 mm ²
w. wire end ferrule, DIN 46228 pt 1, min.	0.25 mm ²	with wire end ferrule, DIN 46228 pt 1, max.	1.5 mm ²
w. plastic collar ferrule, DIN 46228 pt 4, min.	0.25 mm ²	with 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. of poles (Tu=20°C)	17.5 A	Rated current, max. No. of poles (Tu=20°C)	16 A
Rated current, no. of poles (Tu=40°C), min.	17.5 A	Rated current, no. of poles (Tu=40°C), max.	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
Rated voltage at overvoltage category/pollution degree 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 B)	300 V	Rated current (use group B)	20 A
Rated voltage (use group D)	300 V	Rated current (use group D)	10 A
Wire cross-section, AWG, min.	AWG 24	Wire cross-section, AWG, max.	AWG 14

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UL 1059 rating data

Rated voltage (use group B)	300 V	Rated current (use group B)	20 A
Rated voltage (use group D)	300 V	Rated current (use group D)	10 A
Wire cross-section, AWG, min.	AWG 24	Wire cross-section, AWG, max.	AWG 14

Classifications

ETIM 3.0	EC001284	ETIM 4.0	EC002643
UNSPSC	30-21-18-01	eClass 6.0	27-26-11-01

Approvals

Approvals	CSA; CURUS; GOSTME25; ROHS
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Notes

Notes	<ul style="list-style-type: none"> • Rated current related to rated cross-section and min. No. of poles. • Wire end ferrule without plastic collar to DIN 46228/1 • Wire end ferrule with plastic collar to DIN 46228/4 • P on drg. = pitch • Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
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Downloads

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

Datasheet

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Drawings



