



General ordering data

Order No.	1703920000
Part designation	LM2N 3.5/48 3.2 OR
Version	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.08 mm ² , Pitch: 3.50 mm, No. of poles: 48, 90°, Box
EAN	4008190910990
Qty.	20 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	3.5 mm
Pitch in inch	0.138 inch
No. of poles	48
Fitted by customer	yes
Max. adjacent poles per row	24
No. of rows	2
Solder pin length	3.2 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	0.4 x 2.5
Screwdriver blade standard	DIN 5264
Tightening torque, min.	0.2
Tightening torque, max.	0.2 Nm
Clamping screw	M 2
Stripping length	5 mm
L1 in mm	80.5 mm
L1 in inch	3.169 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	PA
Colour	orange
colour chart	Similar to RAL 2000
Insulating material group	I
Flammability class UL 94	V-2
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.	-20 °C
Storage temperature, max.	55 °C

Connectable conductors

Clamping range, min.	0.08 mm ²
Clamping range, max.	2.08 mm ²
AWG, min.	28
AWG, max.	14
O.D. of conductor insulation, max.	2.9 mm
Solid, min. H05(07) V-U	0.5 mm ²
Solid, max. H05(07) V-U	1.5 mm ²
Flexible, min. H05(07) V-K	0.5 mm ²
Flexible, max. H05(07) V-K	1.5 mm ²
w. plastic collar ferrule, DIN 46228 pt 4, min.	0.5 mm ²
w. plastic collar ferrule, DIN 46228 pt 4, max.	0.75 mm ²
Gauge to EN 60999 a x b; ø	2.4 mm x 1.5 mm;

DIN IEC rating data

Rated current, min. No. pins (Tu=20°C)	13 A
Rated current, max. No. pins (Tu=20°C)	12 A
Rated current, min. No. pins (Tu=40°C)	11 A
Rated current, max. No. pins (Tu=40°C)	10 A
Rated voltage for overvoltage class/pollution severity II/2	320 V
Rated voltage for overvoltage class/pollution severity III/2	160 V
Rated voltage for overvoltage class/pollution severity III/3	160 V

DIN IEC rating data

Rated impulse withstand voltage for overvoltage class/pollution severity II/2	2.5 kV
Rated impulse withstand voltage for overvoltage class/pollution severity III/2	2.5 kV
Rated impulse withstand voltage for overvoltage class/pollution severity III/3	2.5 kV
Short-time withstand current resistance	3 x 1s with 72 A

CSA rating data

Rated voltage (Use group D)	300 V
Rated current (Use group D)	10 A
AWG conductor (field wiring), min.	28
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.	28
AWG conductor, max.	14

Approvals

Approvals institutes



Classifications

eClass 4.1	NK
eClass 5.0	NK
eClass 5.1	NK

Similar products

Order No.	Part designation	Version
1703700000	LM2N 3.5/4 3.2 OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.08 mm ² , Pitch: 3.50 mm, No. of poles: 4, 90°, Box
1703710000	LM2N 3.5/6 3.2 OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.08 mm ² , Pitch: 3.50 mm, No. of poles: 6, 90°, Box
1703720000	LM2N 3.5/8 3.2 OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.08 mm ² , Pitch: 3.50 mm, No. of poles: 8, 90°, Box
1703730000	LM2N 3.5/10 3.2 OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.08 mm ² , Pitch: 3.50 mm, No. of poles: 10, 90°, Box

1703740000	LM2N 3.5/12 3.2 OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.08 mm ² , Pitch: 3.50 mm, No. of poles: 12, 90°, Box
1703750000	LM2N 3.5/14 3.2 OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.08 mm ² , Pitch: 3.50 mm, No. of poles: 14, 90°, Box
1703760000	LM2N 3.5/16 3.2 OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.08 mm ² , Pitch: 3.50 mm, No. of poles: 16, 90°, Box
1703770000	LM2N 3.5/18 3.2 OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.08 mm ² , Pitch: 3.50 mm, No. of poles: 18, 90°, Box
1703780000	LM2N 3.5/20 3.2 OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.08 mm ² , Pitch: 3.50 mm, No. of poles: 20, 90°, Box
1703790000	LM2N 3.5/22 3.2 OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.08 mm ² , Pitch: 3.50 mm, No. of poles: 22, 90°, Box
1703800000	LM2N 3.5/24 3.2 OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.08 mm ² , Pitch: 3.50 mm, No. of poles: 24, 90°, Box
1703810000	LM2N 3.5/26 3.2 OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.08 mm ² , Pitch: 3.50 mm, No. of poles: 26, 90°, Box
1703820000	LM2N 3.5/28 3.2 OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.08 mm ² , Pitch: 3.50 mm, No. of poles: 28, 90°, Box
1703830000	LM2N 3.5/30 3.2 OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.08 mm ² , Pitch: 3.50 mm, No. of poles: 30, 90°, Box
1703840000	LM2N 3.5/32 3.2 OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.08 mm ² , Pitch: 3.50 mm, No. of poles: 32, 90°, Box
1703850000	LM2N 3.5/34 3.2 OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.08 mm ² , Pitch: 3.50 mm, No. of poles: 34, 90°, Box
1703860000	LM2N 3.5/36 3.2 OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.08 mm ² , Pitch: 3.50 mm, No. of poles: 36, 90°, Box
1703870000	LM2N 3.5/38 3.2 OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.08 mm ² , Pitch: 3.50 mm, No. of poles: 38, 90°, Box
1703880000	LM2N 3.5/40 3.2 OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.08 mm ² , Pitch: 3.50 mm, No. of poles: 40, 90°, Box
1703890000	LM2N 3.5/42 3.2 OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.08 mm ² , Pitch: 3.50 mm, No. of poles: 42, 90°, Box
1703900000	LM2N 3.5/44 3.2 OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.08 mm ² , Pitch: 3.50 mm, No. of poles: 44, 90°, Box

1703910000 LM2N 3.5/46 3.2 OR

PCB terminal, Clamping yoke connection, Soldered connection,
Clamping range, max.: 2.08 mm², Pitch: 3.50 mm, No. of poles: 46,
90°, Box