



#### General ordering data

Order No.	1667750000
Part designation	LM3.5/2/90 3.2 OR
Version	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.08 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 2, 90°, Box
EAN	4008190425685
Qty.	100 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	2
Fitted by customer	yes
Max. adjacent poles per row	24
No. of rows	1
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.	0.25 Nm
Clamping screw	M 2
Stripping length	5 mm
L1 in mm	3.5 mm
L1 in inch	0.138 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 <sup>2</sup>
Clamping range, max.	2.08 mm <sup>2</sup>
AWG, min.	28
AWG, max.	14
O.D. of conductor insulation, max.	2.9 mm
Solid, min. H05(07) V-U	0.5 mm <sup>2</sup>
Solid, max. H05(07) V-U	1.5 mm <sup>2</sup>
Flexible, min. H05(07) V-K	0.5 mm <sup>2</sup>
Flexible, max. H05(07) V-K	1.5 mm <sup>2</sup>
w. plastic collar ferrule, DIN 46228 pt 4, min.	0.5 mm <sup>2</sup>
w. plastic collar ferrule, DIN 46228 pt 4, max.	0.75 mm <sup>2</sup>
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)	16 A
Rated current, max. No. pins (Tu=20°C)	12 A
Rated current, min. No. pins (Tu=40°C)	14 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
1667770000	LM3.5/3/90 3.2 OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.08 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 3, 90°, Box
1845040000	LM3.5/4/90 3.2 OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.08 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 4, 90°, Box
1720250000	LM3.5/5/90 3.2 OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.08 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 5, 90°, Box
1845050000	LM3.5/6/90 3.2 OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.08 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 6, 90°, Box

1845060000	LM3.5/7/90 3.2 OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.08 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 7, 90°, Box
1845070000	LM3.5/8/90 3.2 OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.08 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 8, 90°, Box
1845080000	LM3.5/9/90 3.2 OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.08 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 9, 90°, Box
1845090000	LM3.5/10/90 3.2 OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.08 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 10, 90°, Box
1845100000	LM3.5/11/90 3.2 OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.08 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 11, 90°, Box
1845110000	LM3.5/12/90 3.2 OR	PCB terminal, Clamping yoke connection, Soldered connection, Clamping range, max.: 2.08 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 12, 90°, Box