



CSA rating data

AWG conductor, min. (CSA)	28
Rated voltage, user group D	300 V
Rated (nominal) current, user group D	10 A
AWG conductor, max. (CSA)	14

DIN IEC rating data

Rated voltage for overvoltage class/pollution severity III/2	160 V
Rated voltage for overvoltage class/pollution severity II/2	320 V
Short-time withstand current resistance	3 x 1s with 72 A
Rated current, min. No. pins (Tu=20°C)	16 A
Rated current, max. No. pins (Tu=20°C)	12 A
Rated impulse withstand voltage for overvoltage class/pollution severity III/3	2,5 kV
Rated current, max. No. pins (Tu=40°C)	10 A
Rated current, min. No. pins (Tu=40°C)	14 A
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 voltage for overvoltage class/pollution severity III/3	160 V

Material specification

Contact surface	tinned
Contact base material	Cu alloy
Insulating material group	I
Insulation material	PA
Duration of glow-wire test	30 s
Temperature of glow-wire test	750 °C
CTI	>= 600
Storage temperature, min.	-25 °C
Storage temperature, max.	55 °C
UL 94 combustibility class	V-2
Colour	orange

System parameters

Clamping screw	M 2
Fitted by customer	yes
Max. adjacent poles per row	24
Fitted to PCB	Soldered connection
Pitch	3,50 mm
Type of screwdriver	SDI 0.4 x 2.5 - DIN 5264
Fitting hole tolerance	+ 0.1 mm
L1 in inch	0,276 inch
L1 in mm	7,00 mm
Pitch in inch	0,138 inch
Stripping length	5 mm
No. of rows	1
Electric shock protection to DIN VDE 0470	Safe from finger touch
Volume resistance	3,6 mΩ
Dia. of fitting hole	1,3 mm
Number of poles	3
Length of soldering post	3,2 mm

UL 1059 rating data

AWG conductor, min. (UL 1059)	28
Rated current (UL 1059)	10 A
Rated voltage, user group D	300 V
AWG conductor, max. (UL 1059)	14

Connectable conductors

AWG, max.	14
O.D. of conductor insulation, max.	2,9 mm
Clamping range, max.	2,08 mm ²
fine-stranded, min. H05(07) V-U	0,5 mm ²
fine-stranded, max. H05(07) V-U	1,5 mm ²
Solid, min. H05(07) V-U	0,5 mm ²
Solid, max. H05(07) V-U	1,5 mm ²
AWG, min.	28
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;
Clamping range, min.	0,08 mm ²

Approvals

Rated voltage for overvoltage class/pollution severity III/2	160 V
Rated voltage for overvoltage class/pollution severity II/2	320 V
Rated voltage for overvoltage class/pollution severity III/3	160 V

Approvals

Approvals

**Classifications**

ETIM 2.0	NK
eClass 4.1	NK
eClass 5.0	NK
eClass 5.1	NK

General ordering data

Order No.	1667770000
Short text for material	LM3.5/3/90 3.2 OR
EAN	4008190903763

- Additional colours on request
- Rated current related to rated cross-section and min. No. of poles.
- Max. O.D. of conductor: 2.9 mm
- Wire end ferrule with plastic collar to DIN 46228 pt 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.

Related products

Order No.	Short text for material	Number of poles
1667750000	LM3.5/2/90 3.2 OR	2
1845040000	LM3.5/4/90 3.2 OR	4
1720250000	LM3.5/5/90 3.2 OR	5
1845050000	LM3.5/6/90 3.2 OR	6
1845060000	LM3.5/7/90 3.2 OR	7
1845070000	LM3.5/8/90 3.2 OR	8
1845080000	LM3.5/9/90 3.2 OR	9
1845090000	LM3.5/10/90 3.2 OR	10
1845100000	LM3.5/11/90 3.2 OR	11
1845110000	LM3.5/12/90 3.2 OR	12