



#### 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 <sup>2</sup>
fine-stranded, min. H05(07) V-U	0,5 mm <sup>2</sup>
fine-stranded, max. H05(07) V-U	1,5 mm <sup>2</sup>
Solid, min. H05(07) V-U	0,5 mm <sup>2</sup>
Solid, max. H05(07) V-U	1,5 mm <sup>2</sup>
AWG, min.	28
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;
Clamping range, min.	0,08 mm <sup>2</sup>

**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

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