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Datasheet

System LSF

LSF-SMT 3.50/04/135 3.5SN BK TU

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 16

D-32758 Detmold

Germany

Fon: +49 5231 14-0

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PCB terminal for fully automatic assembly in reflow soldering (SMT), with PUSH IN conductor connection system. Conductor inserted and slider operated in same direction (TOP). Packed in box or as tape on reel. Pin lengths optimised at 1.5 mm or 3.5 mm. Conductor outlet direction 90°.

- 0.20 - 1.5 mm² (IEC) / 24 - 16 AWG (UL)
- 320 V (IEC) / 300 V (UL)
- 17.5 A (IEC) / 10 A (UL)

General ordering data

Order No.	1885670000
Part designation	LSF-SMT 3.50/04/135 3.5SN BK TU
Version	PCB terminal, 3.50 mm, No. of poles: 4, 135°, Solder pin length: 3.5 mm, tinned, black, PUSH IN, Clamping range, max.: 1.5 mm ² , Tube
GTIN (EAN)	4032248490585
Qty.	37 pc(s).
Packaging	Tube

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Technical data

System parameters

Product family	System LSF	Conductor connection system	PUSH IN
Fitted to PCB	Reflow solder connection	Outgoing direction of conductor	135°
Pitch in mm	3.5 mm	Pitch in inch	0.138 inch
No. of poles	4	Fitted by customer	No
No. of rows	1	Solder pin length	3.5 mm
Diameter of solder eyelet	1.1 mm	Tolerance of the diameter of the solder eyelet	+ 0,1 mm
Number of solder pins per pole	2	Stripping length	8 mm
L1 in mm	10.5 mm	L1 in inch	0.413 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	LCP GF	Colour	black
Flammability class UL 94	V-0	CTI	≥ 175
Contact material	Copper alloy	Contact surface	tinned
Contact base material	Copper alloy		

Connectable conductors

Clamping range, min.	0.13 mm ²	Clamping range, max.	1.5 mm ²
Conductor connection cross-section AWG, min.	AWG 24	Conductor connection cross-section AWG, max.	AWG 16
Solid, min. H05(07) V-U	0.2 mm ²	Solid, max. H05(07) V-U	1.5 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.	0.75 mm ²

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 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 at overvoltage category/pollution degree III/3	160 V	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 80 A		

CSA rating data

Rated voltage (Use group B)	300 V	Rated current (use group B)	10 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 16

UL 1059 rating data

Rated voltage (use group B)	300 V	Rated current (use group B)	12 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 16

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Approvals

Approvals institutes	CSA; CURUS; GOSTME25; ROHS
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Classifications

ETIM 3.0	EC001284	eClass 5.1	27-26-11-01
eClass 6.0	27-26-11-01		

Notes

Notes	• Additional colours on request • Rated current related to rated cross-section and min. No. of poles. • Wire end ferrule without plastic collar to DIN 46228 pt 1 • The data given under CSA relates to a cUL approval - E60693 • P on drg. = pitch • Diameter of solder eyelet D = 1.1+0.1 mm • Operating force of slider max. 40 N • 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. • Crimping shape "A" for wire end ferrules with PZ 6/5 crimping tool are recommended for the largest cable sizes.
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Drawings

