

## LSF-SMT 3.50/13/180 3.5SN BK TU

Weidmüller Interfaces GmbH & Co. KG

Postfach 3030

32760 Detmold

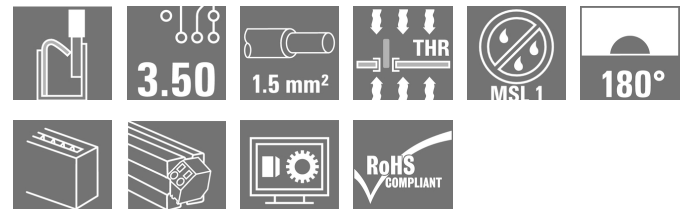
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### Product image



Similar to illustration

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.

### General ordering data

Version	Printed circuit board terminals, 3.50 mm, Number of poles: 13, 180°, Solder pin length (l): 3.5 mm, black, PUSH IN, Clamping range, max. : 1.5 mm², Tube
Order No.	<a href="#">1870350000</a>
Type	LSF-SMT 3.50/13/180 3.5SN BK TU
GTIN (EAN)	4032248447503
Qty.	11 pc(s).
Product data	IEC: 320 V / 17.5 A / 0.2 - 1.5 mm² UL: 300 V / 12 A / AWG 28 - AWG 14
Packaging	Tube

Creation date November 23, 2020 9:50:57 AM CET

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## Technical data

## Dimensions and weights

Depth	7.8 mm	Depth (inches)	0.307 inch
Height	17.5 mm	Height (inches)	0.689 inch
Height of lowest version	14 mm	Net weight	9.636 g
Width	46.2 mm	Width (inches)	1.819 inch

## System parameters

Product family	OMNIMATE Signal - series LSF	Wire connection method	PUSH IN
Mounting onto the PCB	THT/THR solder connection	Conductor outlet direction	180°
Pitch in mm (P)	3.5 mm	Pitch in inches (P)	0.138 inch
Number of poles	13	Pin series quantity	1
Fitted by customer	No	Solder pin length (l)	3.5 mm
Solder pin length tolerance	+0.1 / -0.3	Solder pin dimensions	0.35 x 0.8 mm
Solder pin dimensions = d tolerance	0 / -0.1 mm	Solder eyelet hole diameter (D)	1.1 mm
Solder eyelet hole diameter tolerance (D)	+ 0,1 mm	Number of solder pins per pole	2
Stripping length	8 mm	L1 in mm	42 mm
L1 in inches	1.654 inch	Touch-safe protection acc. to DIN VDE 0470	IP 20
Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch	Volume resistance	1.60 mΩ

## Material data

Insulating material	LCP GF	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	IIIa
Comparative Tracking Index (CTI)	≥ 175	Insulation strength	≥ 10 <sup>8</sup> Ω
Moisture Level (MSL)	1	UL 94 flammability rating	V-0
Contact material	Copper alloy	Layer structure of solder connection	4...6 μm Sn matt
Storage temperature, min.	-40 °C	Storage temperature, max.	70 °C
Operating temperature, min.	-50 °C	Operating temperature, max.	120 °C
Temperature range, installation, min.	-30 °C	Temperature range, installation, max.	120 °C

## Conductors suitable for connection

Clamping range, min.	0.13 mm <sup>2</sup>	Clamping range, max.	1.5 mm <sup>2</sup>
Wire connection cross section AWG, min.	AWG 28	Wire connection cross section AWG, max.	AWG 14
Solid, min. H05(07) V-U	0.2 mm <sup>2</sup>	Solid, max. H05(07) V-U	1.5 mm <sup>2</sup>
Flexible, min. H05(07) V-K	0.2 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.	0.25 mm <sup>2</sup>	w. plastic collar ferrule, DIN 46228 pt 4, max.	0.75 mm <sup>2</sup>
w. wire end ferrule, DIN 46228 pt 1, min.	0.25 mm <sup>2</sup>	w. wire end ferrule, DIN 46228 pt 1, max.	1.5 mm <sup>2</sup>
Reference text	Length of ferrules is to be chosen depending on the product and the rated voltage.. The outside diameter of the plastic collar should not be larger than the pitch (P)		

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17.5 A

17.5 A

320 V

160 V

2.5 kV

2.5 kV

Short-time withstand current resistance  
3 x 1s with 80 A

## Rated data acc. to IEC

tested acc. to standard

IEC 60664-1, IEC 61984

Rated current, max. number of poles  
(Tu=20°C)

16 A

Rated current, max. number of poles  
(Tu=40°C)

14 A

Rated voltage for surge voltage class /  
pollution degree III/2

160 V

Rated impulse voltage for surge voltage  
class/ pollution degree II/2

2.5 kV

Rated impulse voltage for surge voltage  
class/ contamination degree III/3

2.5 kV

Rated current, min. number of poles  
(Tu=20°C)Rated current, min. number of poles  
(Tu=40°C)Rated voltage for surge voltage class /  
pollution degree II/2Rated voltage for surge voltage class /  
pollution degree III/3Rated impulse voltage for surge voltage  
class/ pollution degree III/2

Short-time withstand current resistance

## Rated data acc. to CSA

Institute (CSA)



Certificate No. (CSA)

200039-1664286

Rated voltage (Use group B / CSA)

300 V

Rated current (Use group B / CSA)

10 A

Wire cross-section, AWG, min.

AWG 28

Reference to approval values

Specifications are  
maximum values, details -  
see approval certificate.

Rated voltage (Use group D / CSA)

300 V

Rated current (Use group D / CSA)

10 A

Wire cross-section, AWG, max.

AWG 14

## Rated data acc. to UL 1059

Institute (cURus)



Certificate No. (cURus)

E60693

Rated voltage (Use group B / UL 1059)

300 V

Rated current (Use group B / UL 1059)

12 A

Wire cross-section, AWG, min.

AWG 28

Reference to approval values

Specifications are  
maximum values, details -  
see approval certificate.

Rated voltage (Use group D / UL 1059)

300 V

Rated current (Use group D / UL 1059)

10 A

Wire cross-section, AWG, max.

AWG 14

## Packing

Packaging

Tube

VPE length

10 mm

VPE width

20 mm

VPE height

555 mm

Surface resistance

 $R_s = 10^9 - 10^{12} \Omega$ 

## Classifications

ETIM 6.0

EC002643

ETIM 7.0

EC002643

eClass 9.0

27-44-04-01

eClass 9.1

27-44-04-01

eClass 10.0

27-44-04-01

eClass 11.0

27460101

## Important note

IPC conformity

Conformity: The products are developed, manufactured and delivered according international recognized standards and norms and comply with the assured properties in the data sheet resp. fulfill decorative properties in accordance with IPC-A-610 "Class 2". Further claims on the products can be evaluated on request.

Creation date November 23, 2020 9:50:57 AM CET

Catalogue status 21.11.2020 / We reserve the right to make technical changes.

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**Data sheet**

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**Technical data**

**Approvals**

Approvals



[weidmueller.com](http://weidmueller.com)

ROHS Conform  
 UL File Number Search E60693

**Downloads**

Approval/Certificate/Document of Conformity	<a href="#">Declaration of the Manufacturer</a>
Brochure/Catalogue	<a href="#">FL DRIVES EN</a> <a href="#">FL ANALO.SIGN.CONV. EN</a> <a href="#">MB SMT EN</a> <a href="#">FL DRIVES DE</a> <a href="#">MB DEVICE MANUF. EN</a> <a href="#">CAT 2 PORTFOLIOGUIDE EN</a> <a href="#">FL BUILDING SAFETY EN</a> <a href="#">FL APPL LED LIGHTING EN</a> <a href="#">FLIndustr.CONTROLS EN</a> <a href="#">FL MACHINE SAFETY EN</a> <a href="#">FL HEATING ELECTR EN</a> <a href="#">FL APPL INVERTER EN</a> <a href="#">FL_BASE_STATION_EN</a> <a href="#">FL ELEVATOR EN</a> <a href="#">FL POWER SUPPLY EN</a> <a href="#">FL 72H SAMPLE SER EN</a> <a href="#">PO OMNIMATE EN</a>
Engineering Data	<a href="#">STEP</a>
Engineering Data	<a href="#">EPLAN, WSCAD</a>

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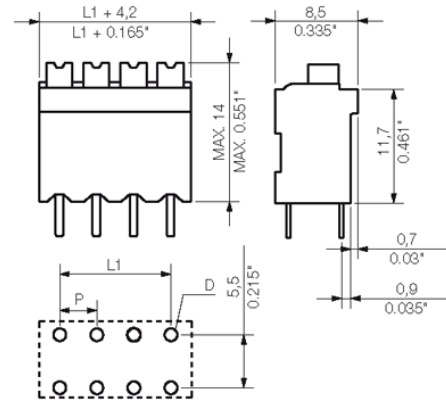
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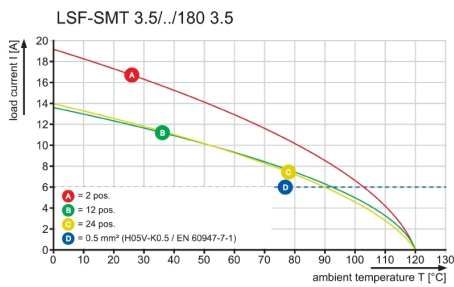
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**Drawings**

**Dimensional drawing** [info@weidmueller.com](mailto:info@weidmueller.com)



**Graph**



**Graph**

