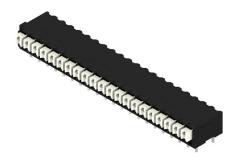


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### **Product image**















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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.

#### **General ordering data**

of poles: 21, 90°, Solder pin length (I): 3.5 mm,		
of poles: 21, 90°, Solder pin length (I): 3.5 mm, black, PUSH IN with push button, Clamping rangemax.: 1.5 mm², Tube  Order No. 1870460000  Type LSF-SMT 3.50/21/90 3.5SN BK TU  GTIN (EAN) 4032248447817  Oty. 7 items  Product data IEC: 320 V / 17.5 A / 0.2 - 1.5 mm² UL: 300 V / 12 A / AWG 28 - AWG 14		
Type LSF-SMT 3.50/21/90 3.5SN BK TU GTIN (EAN) 4032248447817 Qty. 7 items Product data IEC: 320 V / 17.5 A / 0.2 - 1.5 mm² UL: 300 V / 12 A / AWG 28 - AWG 14	Version	black, PUSH IN with push button, Clamping range,
GTIN (EAN) 4032248447817  Oty. 7 items  Product data IEC: 320 V / 17.5 A / 0.2 - 1.5 mm²  UL: 300 V / 12 A / AWG 28 - AWG 14	Order No.	<u>1870460000</u>
Oty. 7 items  Product data IEC: 320 V / 17.5 A / 0.2 - 1.5 mm <sup>2</sup> UL: 300 V / 12 A / AWG 28 - AWG 14	Туре	LSF-SMT 3.50/21/90 3.5SN BK TU
Product data IEC: 320 V / 17.5 A / 0.2 - 1.5 mm <sup>2</sup> UL: 300 V / 12 A / AWG 28 - AWG 14	GTIN (EAN)	4032248447817
UL: 300 V / 12 A / AWG 28 - AWG 14	Qty.	7 items
Packaging Tube	Product data	· · · · · · · · · · · · · · · · · · ·
	Packaging	Tube



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# **Technical data**

### **Approvals**

Approvals



ROHS	Conform	
UL File Number Search	<u>UL Website</u>	
Certificate No. (cURus)	F60693	

#### **Dimensions and weights**

Depth	14.75 mm	Depth (inches)	0.5807 inch
Height	12 mm	Height (inches)	0.4724 inch
Height of lowest version	8.5 mm	Width	74.2 mm
Width (inches)	2.9213 inch	Net weight	14.24 g

#### **Temperatures**

Continuous operating temp., max. 120 °C

#### **Environmental Product Compliance**

RoHS Compliance Status	Compliant without exemption
REACH SVHC	No SVHC above 0.1 wt%

#### **System parameters**

Product family	OMNIMATE Signal - series LSF	Wire connection method	PUSH IN with push button
Mounting onto the PCB	THT/THR solder connection	Conductor outlet direction	90°
Pitch in mm (P)	3.50 mm	Pitch in inches (P)	0.138 "
Number of poles	21	Pin series quantity	1
Fitted by customer	No	Number of rows	1
Solder pin length (I)	3.5 mm	Solder pin length tolerance	0 / -0.3 mm
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 (I	D)+ 0,1 mm
Number of solder pins per pole	2	Stripping length	8 mm
L1 in mm	70.00 mm	L1 in inches	2.756 "
Touch-safe protection acc. to DIN VDE 0470	IP 20	Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch
Protection degree	IP20	Volume resistance	1.60 mΩ

### **Material data**

LCP GF	Colour	black
RAL 9011	Insulating material group	Illa
≥ 175	Moisture Level (MSL)	1
V-0	Contact material	Copper alloy
46 µm Sn matt	Storage temperature, min.	-40 °C
70 °C	Operating temperature, min.	-50 °C
120 °C	Temperature range, installation, min.	-30 °C
120 °C		
	RAL 9011 ≥ 175 V-0 46 µm Sn matt 70 °C 120 °C	RAL 9011  ≥ 175  Woisture Level (MSL)  V-0  Contact material  46 μm Sn matt  70 °C  Operating temperature, min.  Temperature range, installation, min.





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# **Technical data**

Conductors suitable for confi			
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 mm²		
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 min.	4, 0.25 mm <sup>2</sup>		
w. plastic collar ferrule, DIN 46228 pt max.	4, 0.75 mm²		
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>		
Clampable conductor	Cross-section for conductor connection	Туре	fine-wired
		nominal	0.25 mm <sup>2</sup>
	wire end ferrule	Stripping length	nominal 10 mm
		Recommended wire- end ferrule	H0,25/12 HBL
	Cross-section for conductor connection	Туре	fine-wired
		nominal	0.34 mm <sup>2</sup>
	wire end ferrule	Stripping length	nominal 10 mm
		Recommended wire- end ferrule	H0,34/12 TK
	Cross-section for conductor connection	Туре	fine-wired
		nominal	0.5 mm <sup>2</sup>
	wire end ferrule	Stripping length	nominal 10 mm
		Recommended wire- end ferrule	H0,5/14 OR
	Cross-section for conductor connection	Туре	fine-wired
		nominal	0.75 mm <sup>2</sup>
	wire end ferrule	Stripping length	nominal 10 mm
		Recommended wire- end ferrule	H0,75/14T HBL
Reference text	Length of ferrules is to be chosen depending diameter of the plastic collar should not be lar		d voltage., The outside

Rated data acc. to IEC

tested acc. to standard	IEC 60664-1, IEC 60947-7-4	Rated current, min. number of poles (Tu=20°C)	17.5 A
Rated current, max. number of poles (Tu=20°C)	16 A	Rated current, min. number of poles (Tu=40°C)	17.5 A
Rated current, max. number of poles (Tu=40°C)	14 A	Rated voltage for surge voltage class / pollution degree II/2	320 V
Rated voltage for surge voltage class / pollution degree III/2	160 V	Rated voltage for surge voltage class / pollution degree III/3	160 V
Rated impulse voltage for surge voltage class/ pollution degree II/2	2.5 kV	Rated impulse voltage for surge voltage class/ pollution degree III/2	2.5 kV
Rated impulse voltage for surge voltage class/ contamination degree III/3	2.5 kV	Short-time withstand current resistance	3 x 1s with 80 A

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# **Technical data**

D	2404	data	200	40	<b>CGV</b>
п	атеп	пата	2000	TO	1.34

Institute (CSA)	CSA	Certificate No. (CSA)	200039-1664286
Rated voltage (Use group B / CSA)	300 V	Rated voltage (Use group D / CSA)	300 V
Rated current (Use group B / CSA)	10 A	Rated current (Use group D / CSA)	10 A
Wire cross-section, AWG, min.	AWG 28	Wire cross-section, AWG, max.	AWG 14
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

### Rated data acc. to UL 1059

Institute (cURus)	CURUS	Certificate No. (cURus)	E60693
Rated voltage (Use group B / UL 1059)	300 V	Rated voltage (Use group D / UL 1059)	300 V
Rated current (Use group B / UL 1059)	12 A	Rated current (Use group D / UL 1059)	10 A
Wire cross-section, AWG, min.	AWG 28	Wire cross-section, AWG, max.	AWG 14
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

#### **Packing**

Packaging	Tube	VPE length	557.00 mm
VPE width	21.00 mm	VPE height	15.00 mm
Surface resistance	Rs = 109 - 1012 Ω		

### Type tests

Test: Durability of markings	Standard	DIN EN 60512-1-1 / 01.03	
	Test	mark of origin, type identification, pitch, durability	
	Evaluation	available approval marking UL	
	Test		
	Evaluation	on packaging label	
Test: Clampable cross section	Standard	DIN EN 60999-1 section 7 and 9.1 / 12.00, DI EN 60947-1 section 8.2.4.5.1 / 12.02	
	Conductor type	Type of conductor solid 0.14 mm <sup>2</sup> and conductor cross-section	
		Type of conductor stranded 0.14 mm <sup>2</sup> and conductor cross-section	
		Type of conductor solid 1.5 mm <sup>2</sup> and conductor cross-section	
		Type of conductor stranded 1.5 mm <sup>2</sup> and conductor cross-section	
		Type of conductor AWG 24/1 and conductor cross-section	
		Type of conductor AWG 24/19 and conductor cross-section	
		Type of conductor AWG 16/1 and conductor cross-section	
		Type of conductor AWG 16/19 and conductor cross-section	

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# **Technical data**

Test for damage to and accidental loosening of conductors	Standard	DIN EN 60999-1 section	9.4 / 12.00
	Requirement Conductor type	O.2 kg  Type of conductor  and conductor cross- section	AWG 24/1
			AWG 24/19
	Evaluation	passed	
	Requirement	0.3 kg	
	Conductor type	Type of conductor and conductor cross- section	stranded 0.25 mm²
		Type of conductor and conductor cross- section	solid 0.5 mm²
	Evaluation	passed	
	Requirement	0.4 kg	
	Conductor type	and conductor cross- section	solid 1.5 mm²
		Type of conductor and conductor cross- section	stranded 1.5 mm²
		Type of conductor and conductor cross-section	AWG 16/1
		Type of conductor and conductor cross-section	AWG 16/19
	Evaluation	passed	
ull-out test	Standard	DIN EN 60999-1 section 9.5 / 12.0	
	Requirement	≥10 N	
	Conductor type	Type of conductor and conductor cross- section	AWG 24/1
		Type of conductor and conductor cross-section	AWG 24/19
	Evaluation	passed	
	Requirement	≥20 N	
	Conductor type	Type of conductor stranded 0.25 and conductor cross-section	
		Type of conductor and conductor cross-section	H05V-U0.5
	Evaluation	passed	
	Requirement	≥40 N	
	Conductor type	Type of conductor and conductor cross-section	H07V-U1.5
		Type of conductor and conductor cross-section	H07V-K1.5
			AWG 16/1
			AWG 16/19
	Evaluation	passed	



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# **Technical data**

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.
Notes	<ul> <li>Additional push button colours on request</li> <li>Operating force of slider max. 40 N</li> <li>Rated current related to rated cross-section &amp; min. No. of poles.</li> <li>Wire end ferrule with plastic collar to DIN 46228/4</li> <li>Wire end ferrule without plastic collar to DIN 46228/1</li> <li>P on drawing = pitch</li> <li>Rated data refer only to the component itself. Clearance and creepage distances to other</li> </ul>

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 recommended.

 Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months

Classifications

			<u> </u>
ETIM 6.0	EC002643	ETIM 7.0	EC002643
ETIM 8.0	EC002643	ETIM 9.0	EC002643
ETIM 10.0	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	27-46-01-01	ECLASS 12.0	27-46-01-01
ECLASS 13.0	27-46-01-01	ECLASS 14.0	27-46-01-01
ECLASS 15.0	27-46-01-01		



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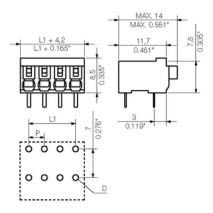
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# **Drawings**

## **Product image**



### **Dimensional drawing**



Graph Graph

