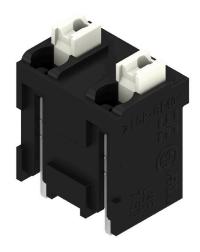


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#### **Product image**















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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**

Printed circuit board terminals, 7.50 mm, Number of poles: 2, 180°, Solder pin length (I): 1.5 mm, black, PUSH IN with actuator, Clamping range, max.: 1.5 mm², Tube
<u>1870280000</u>
LSF-SMT 7.50/02/180 1.5SN BK TU
4032248447367
47 items
IEC: 800 V / 17.5 A / 0.2 - 1.5 mm <sup>2</sup> UL: 300 V / 12 A / AWG 28 - AWG 14
Tube



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# **Technical data**

Approvals
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Approvals	c FAL us
ROHS	Conform
UL File Number Search	<u>UL Website</u>
Certificate No. (cURus)	E60693

#### **Dimensions and weights**

Depth	7.8 mm	Depth (inches)	0.3071 inch
Height	15.5 mm	Height (inches)	0.6102 inch
Height of lowest version	14 mm	Width	11.7 mm
Width (inches)	0.4606 inch	Net weight	2.04 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 actuator
Mounting onto the PCB	THT/THR solder connection	Conductor outlet direction	180°
Pitch in mm (P)	7.50 mm	Pitch in inches (P)	0.295 "
Number of poles	2	Pin series quantity	1
Fitted by customer	No	Number of rows	1
Solder pin length (I)	1.5 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
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	7.50 mm	L1 in inches	0.295 "
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**

Insulating material	LCP GF	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	Illa
Comparative Tracking Index (CTI)	≥ 175	Moisture Level (MSL)	1
UL 94 flammability rating	V-0	Contact material	Cu-alloy
Layer structure of solder connection	46 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 may	120 °C		

#### **Conductors suitable for connection**

Clamping range, min. 0.13 mm<sup>2</sup>





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# **Technical data**

Clamping range, max.	1.5 mm²		
Nire connection cross section AWG,	AWG 28		
nin.			
Vire connection cross section AWG,	AWG 14		
nax.			
folid, min. H05(07) V-U	0.2 mm <sup>2</sup>		
Solid, max. H05(07) V-U	1.5 mm <sup>2</sup>		
lexible, min. H05(07) V-K	0.2 mm <sup>2</sup>		
Flexible, max. H05(07) V-K	1.5 mm <sup>2</sup>		
v. plastic collar ferrule, DIN 46228 pt 4 nin.	4, 0.25 mm <sup>2</sup>		
v. plastic collar ferrule, DIN 46228 pt 4 nax.	1, 0.75 mm²		
v. wire end ferrule, DIN 46228 pt 1, nin.	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	Type	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	Type	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-	H0,5/14 OR
	Cross-section for conductor connection	Type	fine-wired
		nominal	0.75 mm <sup>2</sup>
	wire end ferrule	Stripping length	nominal 10 mm
	1-1-1-1-1	Recommended wire- end ferrule	H0,75/14T HBL
Reference text	Length of ferrules is to be chosen depending of diameter of the plastic collar should not be lar	on the product and the rate	d voltage., The outside

### Rated data acc. to IEC

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. number of poles (Tu=20°C)	17.5 A
Rated current, max. number of poles (Tu=20°C)	17.5 A	Rated current, min. number of poles (Tu=40°C)	17.5 A
Rated current, max. number of poles (Tu=40°C)	15 A	Rated voltage for surge voltage class / pollution degree II/2	800 V
Rated voltage for surge voltage class / pollution degree III/2	630 V	Rated voltage for surge voltage class / pollution degree III/3	500 V
Rated impulse voltage for surge voltage class/ pollution degree II/2	6 kV	Rated impulse voltage for surge voltage class/ pollution degree III/2	6 kV
Rated impulse voltage for surge voltage class/ contamination degree III/3	6 kV	Short-time withstand current resistance	3 x 1s with 80 A

### Rated data acc. to CSA

Rated voltage (Use group B / CSA)	300 V	Rated voltage (Use group C / CSA)	150 V
Rated voltage (Use group D / CSA)	300 V	Rated current (Use group B / CSA)	10 A

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# **Technical data**

Rated current (Use group C / 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

#### 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 C / UL 1059)	150 V
Rated voltage (Use group D / UL 1059)	300 V	Rated current (Use group B / UL 1059)	12 A
Rated current (Use group C / UL 1059)	10 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	20.00 mm	VPE height	16.00 mm
Surface resistance	$Rs = 109 - 1012 \Omega$		

#### Type tests

Test: Durability of markings	Standard	DIN EN 60512-1-1 / 01.03		
	Test	mark of origin, type identification, pitch, approval marking UL, durability		
	Evaluation	available		
Test: Clampable cross section	Standard	DIN EN 60999-1 section 7 and 9.1 / 12.00, DIN 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		
	Evaluation	passed		
Test for damage to and accidental	Standard	DIN EN 60999-1 section 9.4 / 12.00		
loosening of conductors	Requirement	0.2 kg		
	Conductor type	Type of conductor AWG 24/1 and conductor cross-section		
		Type of conductor AWG 24/19 and conductor cross-section		
	Evaluation	passed		

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# **Technical data**

	Requirement	0.3 kg		
	Conductor type	Type of conductor stranded 0.25 mm <sup>2</sup> and conductor cross-section		
		Type of conductor solid 0.5 mm <sup>2</sup> and conductor cross-section		
	Evaluation	passed		
	Requirement	0.4 kg		
	Conductor type	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 16/1 and conductor cross-section		
		Type of conductor AWG 16/19 and conductor cross-section		
	Evaluation	passed		
ll-out test	Requirement	≥10 N		
	Conductor type	Type of conductor AWG 24/1 and conductor cross-section		
		Type of conductor AWG 24/19 and conductor cross-section		
	Evaluation	passed		
	Requirement	≥20 N		
	Conductor type	Type of conductor stranded 0.25 mm <sup>2</sup> and conductor cross-section		
		Type of conductor H05V-U0.5 and conductor cross-section		
	Evaluation	passed		
	Requirement	≥40 N		
	Conductor type	Type of conductor H07V-U1.5 and conductor cross-section		
		Type of conductor H07V-K1.5 and conductor cross-section		
		Type of conductor AWG 16/1 and conductor cross-section		
		Type of conductor AWG 16/19 and conductor cross-section		
	Evaluation	passed		

#### 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

- Additional push button colours on request
- Operating force of slider max. 40 N
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4



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# **Technical data**

- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = 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.
- 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

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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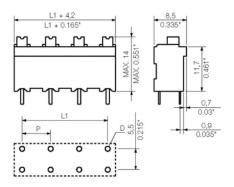
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# **Drawings**

## **Product image**



## **Dimensional drawing**



Graph Graph

