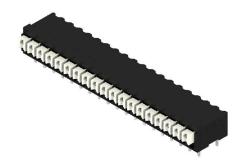


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Product image















1









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: 19, 90°, Solder pin length (I): 3.5		
of poles: 19, 90°, Solder pin length (I): 3.5 black, PUSH IN with push button, Clampin max.: 1.5 mm², Tube Order No. 1870440000 Type LSF-SMT 3.50/19/90 3.5SN BK TU GTIN (EAN) 4032248447794 Oty. 8 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 3.50/19/90 3.5SN BK TU GTIN (EAN) 4032248447794 Oty. 8 items Product data IEC: 320 V / 17.5 A / 0.2 - 1.5 mm² UL: 300 V / 12 A / AWG 28 - AWG 14	Version	Printed circuit board terminals, 3.50 mm, Number of poles: 19, 90°, Solder pin length (I): 3.5 mm, black, PUSH IN with push button, Clamping range, max.: 1.5 mm², Tube
GTIN (EAN) 4032248447794 Qty. 8 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>1870440000</u>
Oty. 8 items Product data IEC: 320 V / 17.5 A / 0.2 - 1.5 mm² UL: 300 V / 12 A / AWG 28 - AWG 14	Туре	LSF-SMT 3.50/19/90 3.5SN BK TU
Product data IEC: 320 V / 17.5 A / 0.2 - 1.5 mm ² UL: 300 V / 12 A / AWG 28 - AWG 14	GTIN (EAN)	4032248447794
UL: 300 V / 12 A / AWG 28 - AWG 14	Qty.	8 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	67.2 mm
Width (inches)	2.6457 inch	Net weight	13.88 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	19	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 (D)+ 0,1 mm	
Number of solder pins per pole	2	Stripping length	8 mm
L1 in mm	63.00 mm	L1 in inches	2.480 "
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	quitable for	connection
Conductors	SUITABLE TOP	connection

Conductors suitable for conr	iection		
Clamping range, min.	0.13 mm ²		
Clamping range, max.	1.5 mm ²		
Wire connection cross section AWG,	AWG 28		
min.			
Wire connection cross section AWG,	AWG 14		
max.			
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. plastic collar ferrule, DIN 46228 pt	4, 0.25 mm ²		
min.			
w. plastic collar ferrule, DIN 46228 pt	4, 0.75 mm ²		
max.	0.05		
w. wire end ferrule, DIN 46228 pt 1, min.	0.25 mm ²		
w. wire end ferrule, DIN 46228 pt 1,	1.5 mm ²		
max.	1.5 111111-		
Clampable conductor	Cross-section for conductor connection	Type fin	e-wired
o.apas.o ooaaoto.	Cross couldn't or contagetor conniconen		25 mm²
	wire end ferrule		ominal 10 mm
	The sing issued),25/12 HBL
		end ferrule	,,,
	C	T (e-wired
	Cross-section for conductor connection	Type find	e-wiieu
	Cross-section for conductor connection		84 mm²
		nominal 0.3	
	wire end ferrule	nominal 0.3 Stripping length ne	34 mm²
		nominal 0.3 Stripping length ne	34 mm² ominal 10 mm
		nominal 0.3 Stripping length no Recommended wire- end ferrule	34 mm² ominal 10 mm
	wire end ferrule	nominal 0.3 Stripping length no Recommended wire- end ferrule Type fine	34 mm² ominal 10 mm 0,34/12 TK
	wire end ferrule	nominal 0.3 Stripping length nominal	34 mm² ominal 10 mm 0,34/12 TK e-wired
	wire end ferrule Cross-section for conductor connection	nominal 0.3 Stripping length nominal	34 mm² ominal 10 mm 0,34/12 TK e-wired 5 mm²
	wire end ferrule Cross-section for conductor connection	nominal 0.3 Stripping length nominal	ominal 10 mm 0,34/12 TK e-wired 0 mm² ominal 10 mm
	wire end ferrule Cross-section for conductor connection	nominal 0.3 Stripping length nominal	ominal 10 mm 0,34/12 TK e-wired 0 mm² ominal 10 mm
	wire end ferrule Cross-section for conductor connection wire end ferrule	nominal 0.3 Stripping length nominal	ominal 10 mm 0,34/12 TK e-wired 5 mm² ominal 10 mm 0,5/14 OR
	wire end ferrule Cross-section for conductor connection wire end ferrule	nominal 0.3 Stripping length nominal	ominal 10 mm 0,34/12 TK e-wired 5 mm² ominal 10 mm 0,5/14 OR e-wired
	wire end ferrule Cross-section for conductor connection wire end ferrule Cross-section for conductor connection	nominal 0.3 Stripping length nominal	a4 mm² ominal 10 mm 0,34/12 TK e-wired 5 mm² ominal 10 mm 0,5/14 OR e-wired 75 mm²

diameter of the plastic collar should not be larger than the pitch (P)

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

Creation date 30.11.2025 02:43:04 MEZ







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Technical data

D	2404	data	200	40	CGV
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	555.00 mm
VPE width	22.00 mm	VPE height	19.00 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		
	Test	approval marking UL		
	Evaluation	on packaging label		
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 ² and conductor cross-section		
		Type of conductor stranded 0.14 mm ² and conductor cross-section		
		Type of conductor solid 1.5 mm ² and conductor cross-section		
		Type of conductor stranded 1.5 mm ² 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		

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Technical data

Test for damage to and accidental	Standard DIN EN 60999-1 section 9.4 / 12.00		
oosening of conductors	Requirement	0.2 kg	
	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	0.3 kg	
	Conductor type	Type of conductor and conductor cross-section	stranded 0.25 mm ²
		Type of conductor and conductor cross-section	solid 0.5 mm²
	Evaluation	passed	
	Requirement	0.4 kg	
	Conductor type	Type of conductor and conductor cross-section	solid 1.5 mm²
		Type of conductor and conductor cross-section	stranded 1.5 mm ²
		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 / 12.00	
	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 and conductor cross-section	stranded 0.25 mm ²
		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
		Type of conductor and conductor cross-section	AWG 16/1
		Type of conductor and conductor cross-section	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	 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 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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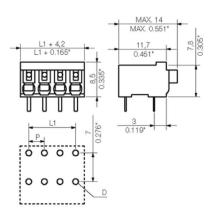
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Drawings

Product image



Dimensional drawing



Graph Graph

