



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Product image















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PCB terminals with spring connection and direct PUSH IN technology. A milestone in connection technology.

Amazingly simple and simply amazing in practice:

- Connect and easily detach solid wires or wires with wire-end ferrules without using tools
- Processed automatically in the reflow or vapour phase
- Potentials and clamping points marked clearly by coloured push buttons

World-class design-in and processing phases, and suitable for a vast range of applications.

General ordering data

Version	Printed circuit board terminals, 7.50 mm, Number of poles: 6, 180°, Solder pin length (I): 3.5 mm, tinned, black, PUSH IN, Box
Order No.	<u>2774690000</u>
Туре	LMFS 7.50/06/180 3.5SN BK BX
GTIN (EAN)	4064675039396
Qty.	30 items
Product data	IEC: 1000 V / 24 A / 0.5 - 2.5 mm ²
	UL: 300 V / 20 A / AWG 24 - AWG 12
Packaging	Вох





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Technical data

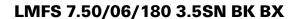
Approvals			
2010			
ROHS	Conform		
Dimensions and weights			
Donth	14.8 mm	Donth (inches)	0.5827 inch
Depth Height	18.7 mm	Depth (inches) Height (inches)	0.7362 inch
Width	45.2 mm	Width (inches)	1.7795 inch
Net weight	9.97 g	width (inches)	1.7733 IIICII
Environmental Product Comp			
Environmental Froduct Comp	iluiioo		
RoHS Compliance Status	Compliant without exemption	on	
REACH SVHC	No SVHC above 0.1 wt%		
System parameters			
Product family	OMNIMATE Signal - series LMF	Wire connection method	PUSH IN
Mounting onto the PCB	THT solder connection	Conductor outlet direction	180°
Pitch in mm (P)	7.50 mm	Pitch in inches (P)	0.295 "
Number of poles	6	Pin series quantity	2
Number of rows	1	Solder pin length (I)	3.5 mm
Solder pin dimensions	0.6 x 0.8 mm	Stripping length	10 mm
Touch-safe protection acc. to DIN VDE 0470	IP 20	Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touc
Material data			
Insulating material	Wemid (PA)	Colour	black
Colour chart (similar)	RAL 9011	Comparative Tracking Index (CTI)	≥ 600
Moisture Level (MSL)		UL 94 flammability rating	V-0
Contact material	Cu-alloy	Contact surface	tinned
Coating	4-6 μm SN	Layer structure of solder connection	48 µm Sn matt
Storage temperature, min.	-40 °C	Storage temperature, max.	70 °C
Operating temperature, min.	-50 °C	Operating temperature, max.	120 °C
Conductors suitable for conn	ection		
10.7	A1A/O O A	\A/'	A)A(O 4.0
Wire connection cross section AWG, min.	AWG 24	Wire connection cross section AWG, max.	AWG 12
Solid, min. H05(07) V-U	0.5 mm ²	Solid, max. H05(07) V-U	2.5 mm ²
Flexible, min. H05(07) V-K	0.25 mm ²	Flexible, max. H05(07) V-K	2.5 mm ²
w. wire end ferrule, DIN 46228 pt 1, min.	0.25 mm ²	w. wire end ferrule, DIN 46228 pt 1, max.	2.5 mm ²
Reference text	Length of ferrules is to be chosen depending on the product and the		

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rated voltage., The outside diameter of the plastic collar should not be larger than the pitch (P)







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Rated data acc. to	IFC
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tested acc. to standard	IEC 60664-1, IEC 61984, IEC 60947-7-4	Rated current, min. number of poles (Tu=20°C)	24 A
Rated current, max. number of poles (Tu=20°C)	20 A	Rated current, min. number of poles (Tu=40°C)	23 A
Rated current, max. number of poles (Tu=40°C)	18 A	Rated voltage for surge voltage class / pollution degree II/2	1000 V
Rated voltage for surge voltage class / pollution degree III/2	600 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 120 A

Rated data acc. to CSA

Rated voltage (Use group B / CSA)	300 V	Rated voltage (Use group D / CSA)	300 V
Rated current (Use group B / CSA)	20 A	Rated current (Use group D / CSA)	10 A
Wire cross-section, AWG, min.	AWG 24	Wire cross-section, AWG, max.	AWG 12

Rated data acc. to UL 1059

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)	20 A	Rated current (Use group D / UL 1059)	10 A
Wire cross-section, AWG, min.	AWG 24	Wire cross-section, AWG, max.	AWG 12

Packing

Packaging	Box	VPE length	338.00 mm
VPE width	130.00 mm	VPE height	27.00 mm

Type tests

Test: Durability of markings	Standard	IEC 61984 section 6.2 and 7.3.2 / 10.11	
	Test	mark of origin, type identification, approval marking UL, approval marking CSA, durability	
	Evaluation	available	
Test: Clampable cross section	Standard	IEC 60947-7-4 sections 7.1.2 and 9.3.2 / 01.	
	Conductor type	Type of conductor solid 0.2 mm ² and conductor cross-section	
		Type of conductor stranded 0.2 mm ² and conductor cross-section	
		Type of conductor solid 2.5 mm ² and conductor cross-section	
		Type of conductor AWG 12/7 and conductor cross-section	
		Type of conductor AWG 24/11 and conductor cross-section	
	Evaluation	passed	
Test for damage to and accidental	Standard	IEC 60999-1 section 9.4 / 11.99	
loosening of conductors	Requirement	0.2 kg	
	Conductor type	Type of conductor solid 0.2 mm ² and conductor cross-section	

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		Type of conductor stranded 0.2 mm ² and conductor cross-section	
		Type of conductor AWG 24/11 and conductor cross-section	
	Evaluation	passed	
	Requirement	0.7 kg	
	Conductor type	Type of conductor solid 2.5 mm ² and conductor cross-section	
	Evaluation	passed	
	Requirement	0,9 kg	
	Conductor type	Type of conductor AWG 12/7 and conductor cross-section	
Pull-out test	Standard	IEC 60999-1 section 9.5 / 11.99	
	Requirement	≥10 N	
	Conductor type	Type of conductor solid 0.2 mm ² and conductor cross-section	
		Type of conductor stranded 0.2 mm ² and conductor cross-section	
		Type of conductor AWG 24/11 and conductor cross-section	
	Evaluation	passed	
	Requirement	≥50 N	
	Conductor type	Type of conductor solid 2.5 mm ² and conductor cross-section	
	Evaluation	passed	
	Requirement	≥ 60 N	
	Conductor type	Type of conductor AWG 12/7 and conductor cross-section	

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 variants on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- 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.
- The test point can only be used as potential-pickup point.
- \bullet Long term storage of the product with average temperature of 50 $^{\circ}\text{C}$ and maximum humidity 70%, 36 months

Classifications

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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

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Technical data

ECLASS 15.0

27-46-01-01

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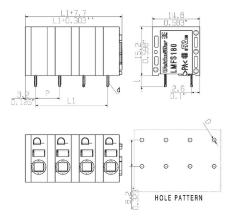
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Drawings

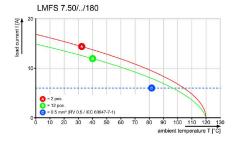
Product image



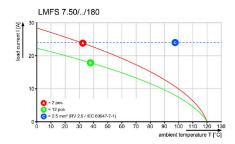
Dimensional drawing



Derating curve



Derating curve



Product benefits





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Drawings

Product benefits



