



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Product image















1





The new LMF allows us to meet the current market requirements for a PCB terminal with PUSH IN connection system for wire cross-sections up to 2.5 mm²

- PUSH IN connection system
- LMF with pusher for opening the terminal point
- LMFS without pusher, the terminal point is opened with a screwdriver
- · Integrated test point
- 90° and 180° wire outlet direction

General ordering data

Version	Printed circuit board terminals, 5.00 mm, Number of poles: 18, 180°, Solder pin length (I): 3.5 mm, tinned, black, PUSH IN, Clamping range, max. : 2.5 mm², Box
Order No.	<u>1425720000</u>
Туре	LMFS 5.00/18/180 3.5SN BK BX
GTIN (EAN)	4050118229387
Qty.	15 items
Product data	IEC: 400 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

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RUHS	Conform				
Dimensions and weights					
Depth	14.8 mm	Depth (inches)	0.5827 inch		
Height	18.7 mm	Height (inches)	0.7362 inch		
Height of lowest version	15.2 mm	Width	92.7 mm		
Width (inches)	3.6496 inch	Net weight	25.83 g		

Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption
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)	5.00 mm	Pitch in inches (P)	0.197 "
Number of poles	18	Pin series quantity	2
Fitted by customer	No	Number of rows	1
Max. adjacent poles per row	24	Solder pin length (I)	3.5 mm
Solder pin dimensions	d = 0.8 mm, 0.6 x 0.8 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
Screwdriver blade	0.6 x 3.5	Screwdriver blade standard	DIN 5264
Stripping length	10 mm	L1 in mm	85.00 mm
L1 in inches	3.347 "	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

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	Tinning type	matt
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	Temperature range, installation, min.	-25 °C
Temperature range, installation, max.	120 °C		

Conductors suitable for connection

Clamping range, min.	0.2 mm ²
Clamping range, max.	2.5 mm ²
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

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Technical data

w. plastic collar ferrule, DIN 46228 pt min.	4, 0.25 mm²		
w. plastic collar ferrule, DIN 46228 pt	4 2 5 mm ²		
max.	T, 2.3 IIIII		
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		
Plug gauge in accordance with EN 60999 a x b; ø	2.4 mm x 1.5 mm		
Clampable conductor	Cross-section for conductor connection	Туре	fine-wired
		nominal	0.5 mm ²
	wire end ferrule	Stripping length	nominal 12 mm
		Recommended wire- end ferrule	H0,5/16 OR
		Stripping length	nominal 10 mm
		Recommended wire- end ferrule	H0,5/10
	Cross-section for conductor connection	Туре	fine-wired
		nominal	0.75 mm ²
	wire end ferrule	Stripping length	nominal 12 mm
		Recommended wire- end ferrule	H0,75/16 W
		Stripping length	nominal 10 mm
		Recommended wire- end ferrule	H0,75/10
	Cross-section for conductor connection	Туре	fine-wired
		nominal	1 mm ²
	wire end ferrule	Stripping length	nominal 12 mm
		Recommended wire- end ferrule	H1,0/16D R
		Stripping length	nominal 10 mm
		Recommended wire- end ferrule	H1,0/10
	Cross-section for conductor connection	Туре	fine-wired
		nominal	1.5 mm ²
	wire end ferrule	Stripping length	nominal 10 mm
		Recommended wire- end ferrule	<u>H1,5/10</u>
		Stripping length	nominal 12 mm
		Recommended wire- end ferrule	H1,5/16 R
	Cross-section for conductor connection	Туре	fine-wired
		nominal	2.5 mm ²
	wire end ferrule	Stripping length	nominal 10 mm
		Recommended wire- end ferrule	<u>H2,5/10</u>
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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)

Rated data acc. to IEC

			
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)	24 A	Rated current, min. number of poles (Tu=40°C)	24 A
Rated current, max. number of poles (Tu=40°C)	24 A	Rated voltage for surge voltage class / pollution degree II/2	400 V
Rated voltage for surge voltage class / pollution degree III/2	320 V	Rated voltage for surge voltage class / pollution degree III/3	250 V

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Technical data

Rated impulse voltage for surge voltage 4 kV class/ pollution degree II/2	Rated impulse voltage for surge voltage 4 kV class/ pollution degree III/2
Rated impulse voltage for surge voltage 4 kV	Short-time withstand current resistance 3 x 1s with 120 A
class/ contamination degree III/3	

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	DIN EN 60512-1-1 / 01.03
	Test	mark of origin, type identification, pitch, approval marking UL, durability
	Evaluation	passed
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
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



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		Type of conductor AWG 24/19 and conductor cross-section		
	Evaluation	passed		
	Requirement	0.3 kg		
	Conductor type	Type of conductor stranded 0.25 mm ² and conductor cross-section		
		Type of conductor solid 0.5 mm ² and conductor cross-section		
	Evaluation	passed		
	Requirement	0.4 kg		
	Conductor type	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 16/1 and conductor cross-section		
		Type of conductor AWG 16/19 and conductor cross-section		
	Evaluation	passed		
	Standard	DIN EN 60999-1 section 9.5 / 12.00		
	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 ² and conductor cross-section		
		Type of conductor H05V-K0.5 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

Pull-out test

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.







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Technical data

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 °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		

Weidmüller **3**

LMFS 5.00/18/180 3.5SN BK BX

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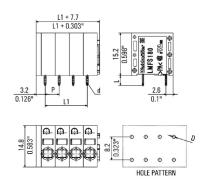
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Drawings

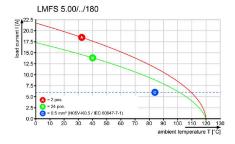
Product image

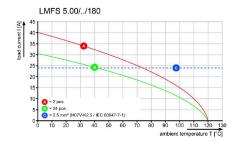


Dimensional drawing



Graph Graph







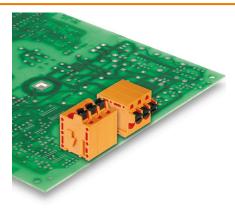
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Drawings

Product benefits



Optional conductor outlet directionStable mechanical design

Product benefits



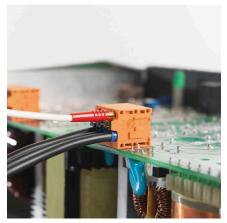
High reliability of the current capacity

Product benefits



Direct conductor entryCross section up to 2.5 mm²

Product benefits



Maintenance through test point



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Accessories

Slotted screwdriver



VDE insulated slot-head screwdriver, SDI DIN 7437, ISO 2380/2, drive output acc. to DIN 5264, ISO 2380/1. SoftFinish grip

General ordering data

Туре SDIS 0.6X3.5X100 Order No. GTIN (EAN)

9008390000 4032248056354

Qty.

Version

Screwdriver, Screwdriver

Additional accessories



No task is too small when creating the perfect solution. Connections form just one part of the overall process. Small details are often the key to the perfect solution in applications where potentials are tested, grouped or even isolated.

A system is not a system without small but essential details:

• Test plugs ensure reliable pick-up from diagnostic

In tandem with the manufacturing process and application.

General ordering data

Туре	PS 2.0 MC	
Order No.	0310000000	
GTIN (EAN)	4008190000059	
Qty.	20 ST	

Version

PCB plug-in connector, Accessories, Test plug, red, Number of poles: