

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Product image





















The sturdy, direct connection for extreme current and voltage requirements in all power electronics applications such as solar inverters, frequency converters, servo-controllers and power supplies.

General ordering data

Version	Printed circuit board terminals, 15.00 mm, Number of poles: 5, 180°, Solder pin length (I): 5 mm, black, PUSH IN without actuator, Clamping range, max. : 16 mm², Box	
Order No.	2492240000	
Туре	LUFS 15.00/05/180V 5.0SN BK BX	
GTIN (EAN)	4050118564730	
Qty.	20 pc(s).	
Product data	IEC: 1000 V / 101 A / 0.5 - 25 mm ² UL: 600 V / 57 A / AWG 18 - AWG 4	
Packaging	Box	

Creation date January 30, 2022 9:41:51 PM CET



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Technical data

Dimensions and weights

Depth	24.7 mm	Depth (inches)	0.972 inch
Height	36.3 mm	Height (inches)	1.429 inch
Height of lowest version	31.3 mm	Width	71.58 mm
Width (inches)	2.818 inch	Net weight	51.601 g

System parameters

Product family	OMNIMATE Power - series	Wire connection method	
	LU		PUSH IN without actuator
Mounting onto the PCB	THT solder connection	Conductor outlet direction	180°
Pitch in mm (P)	15 mm	Pitch in inches (P)	0.591 inch
Number of poles	5	Pin series quantity	1
Fitted by customer	No	Solder pin length (I)	5 mm
Solder pin dimensions	d = 1.2 mm, Octagonal	Solder eyelet hole diameter (D)	1.7 mm
Solder eyelet hole diameter tolerance (I	D)+ 0,1 mm	Number of solder pins per pole	2
Screwdriver blade	0.8 x 4.0	Stripping length	18 mm
L1 in mm	60 mm	L1 in inches	2.362 inch
Touch-safe protection acc. to DIN VDE	IP20 plugged/ IP10	Touch-safe protection acc. to DIN VDE	touch-safe with connected
0470	unplugged	57 106	connectors from 6 mm ²
Protection degree	IP20		

Material data

Insulating material	Wemid (PA)	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	I
Comparative Tracking Index (CTI)	≥ 600	UL 94 flammability rating	V-0
Contact material	E-Cu	Storage temperature, min.	-40 °C
Storage temperature, max.	70 °C	Operating temperature, min.	-40 °C
Operating temperature, max.	120 °C		

Conductors suitable for connection

Clamping range, min.	0.5 mm ²		
Clamping range, max.	16 mm ²		
Wire connection cross section AWG, min.	AWG 18		
Wire connection cross section AWG, max.	AWG 4		
Solid, min. H05(07) V-U	0.5 mm ²		
Solid, max. H05(07) V-U	16 mm ²		
Stranded, min. H07V-R	10 mm ²		
Stranded, max. H07V-R	25 mm ²		
Flexible, min. H05(07) V-K	0.5 mm ²		
Flexible, max. H05(07) V-K	25 mm ²		
w. plastic collar ferrule, DIN 46228 pt min.	4, 0.5 mm²		
w. plastic collar ferrule, DIN 46228 pt $$ max.	4, 16 mm²		
w. wire end ferrule, DIN 46228 pt 1, min.	0.5 mm ²		
w. wire end ferrule, DIN 46228 pt 1,	16 mm²		



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Clampable conductor	Cross-section for conductor connection	Туре	fine-wired
		nominal	2.5 mm ²
	wire end ferrule	Stripping length	nominal 20 mm
		Recommended wire- end ferrule	H2,5/25D BL
		Stripping length	nominal 18 mm
		Recommended wire- end ferrule	H2,5/18
	Cross-section for conductor connection	Type	fine-wired
		nominal	4 mm ²
	wire end ferrule	Stripping length	nominal 20 mm
		Recommended wire- end ferrule	H4,0/26D GR
		Stripping length	nominal 18 mm
		Recommended wire- end ferrule	H4,0/18
	Cross-section for conductor connection	Туре	fine-wired
		nominal	6 mm ²
	wire end ferrule	Stripping length	nominal 20 mm
		Recommended wire- end ferrule	H6,0/26 SW
		Stripping length	nominal 18 mm
		Recommended wire- end ferrule	H6,0/18
	Cross-section for conductor connection	Туре	fine-wired
		nominal	10 mm ²
	wire end ferrule	Stripping length	nominal 21 mm
		Recommended wire- end ferrule	H10,0/28 EB
		Stripping length	nominal 18 mm
		Recommended wire- end ferrule	H10,0/18
	Cross-section for conductor connection	Туре	fine-wired
		nominal	16 mm ²
	wire end ferrule	Stripping length	nominal 21 mm
		Recommended wire- end ferrule	H16,0/28 GN
		Stripping length	nominal 18 mm
		Recommended wire- end ferrule	H16,0/18
	Cross-section for conductor connection	Туре	fine-wired
		nominal	1.5 mm ²
	wire end ferrule	Stripping length	nominal 20 mm
		Recommended wire- end ferrule	H1,5/24 R
		Stripping length	nominal 18 mm
		Recommended wire- end ferrule	H1,5/18

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Technical data

Rated data acc. to IEC

Rated current, min. number of pol	es	Rated current, max. number of pole	es	
(Tu=20°C)	101 A	(Tu=20°C)	101 A	
Rated current, min. number of poles		Rated current, max. number of pole	es	
(Tu=40°C)	94.5 A	(Tu=40°C)	90.1 A	
Rated voltage for surge voltage class /		Rated voltage for surge voltage class /		
pollution degree II/2	1,000 V	pollution degree III/2	1,000 V	
Rated voltage for surge voltage class /		Rated impulse voltage for surge vo	Itage	
pollution degree III/3	1,000 V	class/ pollution degree II/2	6 kV	
Rated impulse voltage for surge vo	oltage	Rated impulse voltage for surge vo	Itage	
class/pollution degree III/2	8 kV	class/ contamination degree III/3	8 kV	

Rated data acc. to CSA

Rated voltage (Use group B / CSA)	600 V	Rated voltage (Use group C / CSA)	600 V
Rated voltage (Use group D / CSA)	600 V	Rated current (Use group B / CSA)	57 A
Rated current (Use group C / CSA)	57 A	Rated current (Use group D / CSA)	5 A
Wire cross-section, AWG, min.	AWG 18	Wire cross-section, AWG, max.	AWG 4

Rated data acc. to UL 1059

Institute ((cHRus)	
montute	(COHUS)	



Certificate No. (cURus)

Rated voltage (Use group B / UL 1059)	600 V
Rated voltage (Use group D / UL 1059)	600 V
Rated current (Use group B / UL 1059)	57 A
Rated current (Use group D / UL 1059)	5 A
Wire cross-section, AWG, min.	AWG 18
Reference to approval values	Specifications are maximum values, details - see approval certificate.

	E60693
Rated voltage (Use group C / UL 1059)	600 V
Rated voltage (Use group E / UL 1059)	1,000 V
Rated current (Use group C / UL 1059)	57 A
Rated current (Use group E / UL 1059)	57 A
Wire cross-section, AWG, max.	AWG 4

Packing

Packaging	Box	VPE length	269 mm
VPE width	171 mm	VPE height	44 mm

Classifications

ETIM 6.0	EC002643	ETIM 7.0	EC002643
ETIM 8.0	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		



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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 colours 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.
- The single-position PCB terminal block can be used for voltages up to 1500 V (DC) and 1000 V (AC). The relevant device standard and the appropriate required clearances and creepage distances should be observed in the application
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

Approvals

c Al us
Conform
E60693

Downloads

Approval/Certificate/Document of	
Conformity	Declaration of the Manufacturer
Engineering Data	CAD data – STEP
Product Change Notification	20210909 Color Change of Actuator to LLF(S) and LUF(S) Family 20210909 LLF(S) und LUF(S) Familie - Farbänderung des Betätigungselementes
User Documentation	QR-Code product handling video
Catalogues	Catalogues in PDF-format



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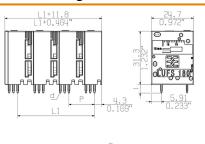
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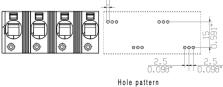
Drawings

Product image

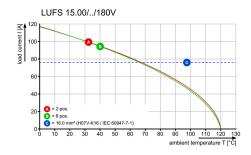


Dimensional drawing

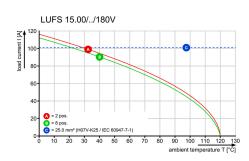




Derating curve



Derating curve



Product benefits



Offset solder pins



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Accessories

Slotted screwdriver



Slotted screwdriver with rounded blade SD DIN 5265, ISO 2380/2, output to DIN 5264, ISO 2380/1. ChromTop tip, SoftFinish grip

General ordering data

Type SDS 0.8X4.0X100
Order No. 9008340000
GTIN (EAN) 4032248056293
Oty. 1 pc(s).

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 sockets

In tandem with the manufacturing process and application.

General ordering data

Туре	PS 2.0 MC	Version	Product data	Packaging
Order No.	0310000000	PCB plug-in connector, Accessories, Test plug, red, Number of poles:	1	Box
GTIN (EAN)	4008190000059			
Qty.	20 pc(s).			



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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

Type SDIS 0.8X4.0X100
Order No. 9008400000
GTIN (EAN) 4032248056361
Oty. 1 pc(s).

Screwdriver, Screwdriver

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For the mounting of PCBs, it should be not rated data relates only to the PCB componatione.

The neccessary creepage and clearance pa observed in connection with the respective accordance to IEC 664 / VDE 0110.

The current-carrying capacity and pitch tol be determined according to DIN IEC 326 pa

Weidmüller PCB components are tested to 61984

standard, and are valid for its field of appl Provided that the components are used to to purpose, all requirements with respect to to occuring of electrical, mechanical, thermic corrosive stress will be satisfied.



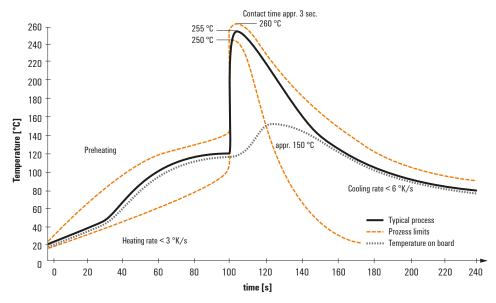
Recommended wave solderding profiles

Weidmüller Interface GmbH & Co. KG

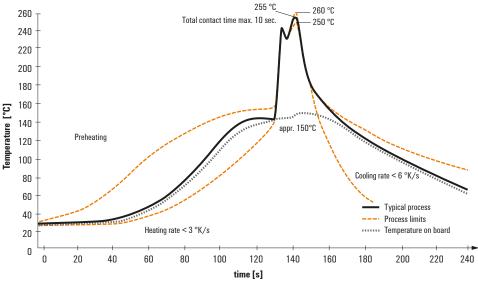
Klingenbergstraße 16 D-32758 Detmold Germany

Fon: +49 5231 14-0 Fax: +49 5231 14-292083 www.weidmueller.com

Single Wave:



Double Wave:



Wave soldering profiles

Wired connection elements should be processed in accordance with the DIN EN 61760-1 standard. We have included two recommendations for practical wave soldering profiles, with which Weidmüller PCB terminals and connectors are qualified.

When choosing a suitable profile for your application, the following factors also need to be considered:

- PCB thickness
- Proportion of Cu in the layers
- Single/double-sided assembly
- Product range
- Heating and cooling rates

The single and double wave profiles each indicate the recommended operating range, including the maximum soldering temperature of 260°C. In practice, the maximum soldering temperature is quite often well below the above maximum profile.

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Click to view similar products for Fixed Terminal Blocks category:

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Other Similar products are found below:

MBE-1512 MBE-154 MBE-156 MBES-153 MBES-156 MH-2512 MHE-132 MHE-163 MI-254 (35) MI-272 880507 MPT-275

15602-04-08-21 ELM023100 BA311TU BA411SU MV-152 MV-252-D MV-253/NCNOC MV-254-D MV-255 MV-462 MV-493 MVE
252 MVE-253 MVE-273 MVEB-153 1700096 1705142 1712417 1713020 1713088 1745195 1760594 1776118-2 1790852 1-796689-8

1-796692-6 1800001 1800114 1995279 20020314-C121B01LF 20020316-G041B01LF CB2-12 KP03215000J0G KP04215000J0G S451

282802-2 29.007 29.116