



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, 10.00 mm, Number of poles: 6, 90°, Solder pin length (I): 5 mm, tinned, black, PUSH IN with lever, Clamping range, max.: 25 mm², Box
Order No.	<u>1988640000</u>
Туре	LUF 10.00/06/90 5.0SN BK BX
GTIN (EAN)	4050118373226
Qty.	20 items
Product data	IEC: 1000 V / 101 A / 0.5 - 25 mm ² UL: 300 V / 61 A / AWG 18 - AWG 6
Packaging	Вох





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Technical data

Approvals

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

Dimensions and weights

Depth	26.45 mm	Depth (inches)	1.0413 inch
Height	47.03 mm	Height (inches)	1.8516 inch
Height of lowest version	42.03 mm	Width	61.58 mm
Width (inches)	2.4244 inch	Net weight	64.75 g

Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption	
REACH SVHC	No SVHC above 0.1 wt%	

System parameters

Product family	OMNIMATE Power - series LU	Wire connection method	PUSH IN with lever
Mounting onto the PCB	THT solder connection	Conductor outlet direction	90°
Pitch in mm (P)	10.00 mm	Pitch in inches (P)	0.394 "
Number of poles	6	Pin series quantity	1
Fitted by customer	No	Number of rows	1
Solder pin length (I)	5 mm	Solder pin dimensions	d = 1.2 mm, Octagonal
Solder eyelet hole diameter (D)	1.6 mm	Solder eyelet hole diameter tolerance (D)+ 0,1 mm	
Number of solder pins per pole	4	Screwdriver blade	0.8 x 4.0
Stripping length	18 mm	L1 in mm	50.00 mm
L1 in inches	1.969 "	Touch-safe protection acc. to DIN VDE 0470	IP20 plugged/ IP10 unplugged
Touch-safe protection acc. to DIN VDE 57 106	touch-safe with connected 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	Moisture Level (MSL)	
UL 94 flammability rating	V-0	Contact base material	E-Cu
Contact material	Cu-alloy	Contact surface	tinned
Layer structure of solder connection	46 µm Sn matt	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.	25 mm ²		
Wire connection cross section AWG,	AWG 20		
min.			
Wire connection cross section AWG,	AWG 4		
max.			
Solid, min. H05(07) V-U	0.5 mm ²		

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Technical data

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Solid, max. H05(07) V-U	16 mm ²		
Stranded, min. H07V-R	6 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.			
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, max.	16 mm²		
Plug gauge in accordance with EN 60999 a x b; ø	5.3mm (B6)		
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-	H2,5/18
	Cross-section for conductor connection	Туре	fine-wired
	Cross section for conductor connection	nominal	4 mm ²
	wire end ferrule	Stripping length	nominal 20 mm
	Wife end ferrule	Recommended wire-	H4,0/26D GR
		end ferrule	
		Stripping length	nominal 18 mm
		Recommended wire- end ferrule	<u>H4,0/18</u>
	Cross-section for conductor connection	Type	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-	H10,0/18
	Construction (end ferrule	£
	Cross-section for conductor connection	Type	fine-wired
	ina and familia	nominal	16 mm ²
	wire end ferrule	Stripping length Recommended wire-	nominal 21 mm H16,0/28 GN
		end ferrule	
		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
	T.		







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		Stripping length	nominal	18 mm
		Recommended wire- end ferrule	H1,5/18	
Reference text	Length of ferrules is to be chosen depending on the diameter of the plastic collar should not be larger		d voltage., The	e outside

Rated data acc. to IEC

tested acc. to standard	IEC 60947-7-4	Rated current, min. number of poles (Tu=20°C)	101 A
Rated current, max. number of poles (Tu=20°C)	101 A	Rated current, min. number of poles (Tu=40°C)	101 A
Rated current, max. number of poles (Tu=40°C)	95 A	Rated voltage for surge voltage class / pollution degree II/2	1000 V
Rated voltage for surge voltage class / pollution degree III/2	690 V	Rated voltage for surge voltage class / pollution degree III/3	630 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		

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)	600 V	Rated current (Use group B / CSA)	61 A
Rated current (Use group C / CSA)	61 A	Rated current (Use group D / CSA)	5 A
Wire cross-section, AWG, min.	AWG 18	Wire cross-section, AWG, max.	AWG 6

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)	600 V	Rated current (Use group B / UL 1059)	61 A
Rated current (Use group C / UL 1059)	61 A	Rated current (Use group D / UL 1059)	5 A
Wire cross-section, AWG, min.	AWG 18	Wire cross-section, AWG, max.	AWG 6
Reference to approval values	Specifications are maximum values, details - see approval certificate		

Packing

Packaging	Box	VPE length	275.00 mm
VPE width	168.00 mm	VPE height	45.00 mm

Type tests

Test: Durability of markings	Standard	IEC 60947-1 section 8.2.4.5.1 / 06.07, II 60512-1-1:2002-02	
	Test	mark of origin, type identification, pitch, durability, stripping length	
	Evaluation	available	
Test: Clampable cross section	Standard	IEC 60999-1 section 7 and 9.1 / 11.99, IEC 60947-1 section 8.2.4.5.1 / 03.11	
	Conductor type	Type of conductor solid 0.5 mm ² and conductor cross-section	
		Type of conductor stranded 0.5 mm ² and conductor cross-section	

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Technical data

		Type of conductor and conductor cross-section	solid 16 mm²
		Type of conductor and conductor cross-section	stranded 16 mm ²
		Type of conductor and conductor cross-section	H07V-U16
		Type of conductor and conductor cross-section	H07V-U6
		Type of conductor and conductor cross-section	H07V-K16
		Type of conductor and conductor cross- section	AWG 4
	Evaluation	passed	
Test for damage to and accidental	Standard	IEC 60999-1 section 9	4 / 11.99
oosening of conductors	Requirement	0.3 kg	· ·
	Conductor type	Type of conductor and conductor cross-section	AWG 20/1
		Type of conductor and conductor cross-section	AWG 20/19
		Type of conductor and conductor cross-section	H05V-U0.5
		Type of conductor and conductor cross-section	H05V-K0.5
	Evaluation	passed	
	Requirement	2.9 kg	
	Conductor type	Type of conductor and conductor cross-section	H07V-U16
		Type of conductor and conductor cross-section	H07V-K16
	Evaluation	passed	
	Requirement	4,5 kg	
	Conductor type	Type of conductor and conductor cross- section	AWG 4/7
		Type of conductor and conductor cross- section	AWG 4/19
	Evaluation	passed	
Pull-out test	Standard	IEC 60999-1 section 9	5 / 11.99
	Requirement	≥20 N	
	Conductor type	Type of conductor and conductor cross- section	AWG 20/1
		Type of conductor and conductor cross-section	AWG 20/19
		Type of conductor and conductor cross- section	H05V-U0.5
		Type of conductor and conductor cross-section	H05V-K0.5





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Technical data

Evaluation	passed
Requirement	≥100 N
Conductor type	Type of conductor H07V-U16 and conductor cross-section
	Type of conductor H07V-K16 and conductor cross-section
Evaluation	passed
Requirement	≥ 135 N
Conductor type	Type of conductor AWG 4/7 and conductor cross-section
	Type of conductor AWG 4/19 and conductor cross-section
Evaluation	passed

Important note

IDC as a farmait.	Confirmation The word rate are developed manufactured and delivered according intermediated
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.
- 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
- \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		



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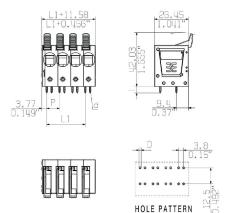
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Drawings

Product image

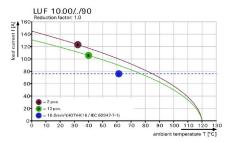


Dimensional drawing

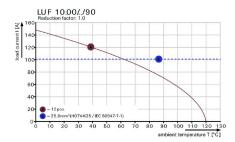


Derating curve

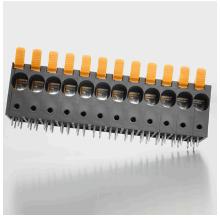
Derating curve



Derating curve



Product benefits



High stability through pin design



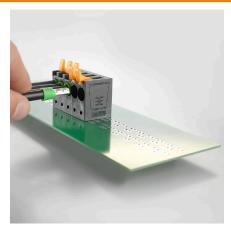
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Drawings

Product benefits



PUSH IN connection up to 16 mm²



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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	Version
Order No.	9008400000	Screwdriver, Screwdriver
GTIN (EAN)	4032248056361	
Qty.	1 ST	
Туре	SDS 0.8X4.0X100	Version
Type Order No.	SDS 0.8X4.0X100 9008340000	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 sockets

In tandem with the manufacturing process and application.

General ordering data

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

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