



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 FL *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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Recommended wire- H1,5/24 R

end ferrule

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 mm²	
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 mm ²	
w. wire end ferrule, DIN 46228 pt 1, min.	0.5 mm²	
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	Type fine-wired
		nominal 2.5 mm ²
	wire end ferrule	Stripping length nominal 20 mm
		Recommended wire- H2,5/25D BL end ferrule
		Stripping length nominal 18 mm
		Recommended wire- H2,5/18 end ferrule
	Cross-section for conductor connection	Type fine-wired
	Gross section for defination confinedation	nominal 4 mm ²
	wire end ferrule	Stripping length nominal 20 mm
		Recommended wire- H4,0/26D GR end ferrule
		Stripping length nominal 18 mm
		Recommended wire- H4,0/18
		end ferrule
	Cross-section for conductor connection	Type fine-wired
		nominal 6 mm ²
	wire end ferrule	Stripping length nominal 20 mm
		Recommended wire- H6,0/26 SW end ferrule
		Stripping length nominal 18 mm
		Recommended wire- H6,0/18 end ferrule
	Cross-section for conductor connection	Type fine-wired
		nominal 10 mm ²
	wire end ferrule	Stripping length nominal 21 mm
		Recommended wire- end ferrule
		Stripping length nominal 18 mm
		Recommended wire- H10,0/18
		end ferrule
	Cross-section for conductor connection	Type fine-wired
		nominal 16 mm²
	wire end ferrule	Stripping length nominal 21 mm
		Recommended wire- H16,0/28 GN end ferrule
		Stripping length nominal 18 mm
		Recommended wire- H16,0/18 end ferrule
	Cross-section for conductor connection	Type fine-wired
	5.555 5554511 for Goridadior Confidence	nominal 1.5 mm ²
	wire end ferrule	Stripping length nominal 20 mm
	3 0.1.4.10	Recommended wire- H15/24 R







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	Stripping length nominal 18 mm
	Recommended wire- H1,5/18 end ferrule
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 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, IEC 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
loosening of conductors	Requirement	0.3 kg	•
loosening of conductors	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

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
- Long term storage of the product with average temperature of 50 $^{\circ}\text{C}$ 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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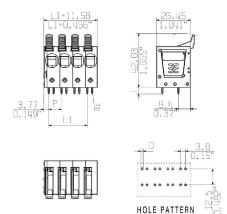
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Drawings

Product image

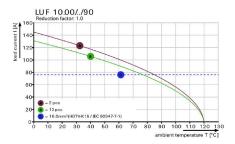


Dimensional drawing

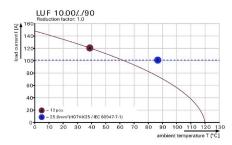


Derating curve

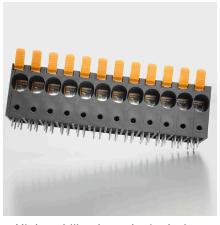
Derating curve



Derating curve



Product benefits



High stability through pin design



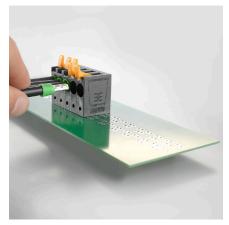
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Drawings

Product benefits



PUSH IN connection up to 16 mm²