



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Product image















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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, 90°, Solder pin length (I): 5 mm, black, PUSH IN without actuator, Clamping range, max. : 16 mm², Box
Order No.	<u>2500590000</u>
Туре	LUFS 15.00/05/90V 5.0SN BK BX
GTIN (EAN)	4050118604498
Qty.	20 items
Product data	IEC: 1000 V / 101 A / 0.5 - 25 mm ² UL: 600 V / 53 A / AWG 18 - AWG 4
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	28.55 mm	Depth (inches)	1.124 inch
Height	35 mm	Height (inches)	1.378 inch
Height of lowest version	30 mm	Width	71.8 mm
Width (inches)	2.8268 inch	Net weight	58.71 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 without actuator
Mounting onto the PCB	THT solder connection	Conductor outlet direction	90°
Pitch in mm (P)	15.00 mm	Pitch in inches (P)	0.591 "
Number of poles	5	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)	1.7 mm	Solder eyelet hole diameter tolerance (I	O)+ 0,1 mm
Number of solder pins per pole	2	Screwdriver blade	0.8 x 4.0
Stripping length	18 mm	L1 in mm	60.00 mm
L1 in inches	2.362 "	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 material	Cu-alloy
Storage temperature, min.	-40 °C	Storage temperature, max.	70 °C
Operating temperature, min.	-40 °C	Operating temperature, max.	120 °C

Conductors suitable for connection

0.5 mm ²
16 mm²
AWG 18
AWG 4
0.5 mm ²
16 mm ²
10 111111

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Stranded, max. H07V-R	25 mm²		
Flexible, min. H05(07) V-K	0.5 mm ²		
Flexible, max. H05(07) V-K	25 mm²		
v. plastic collar ferrule, DIN 46228 min.	3 pt 4, 0.5 mm²		
v. plastic collar ferrule, DIN 46228 nax.	3 pt 4, 16 mm²		
v. wire end ferrule, DIN 46228 pt	1, 0.5 mm²		
v. wire end ferrule, DIN 46228 pt	1, 16 mm²		
nax. Iampable conductor	Cross-section for conductor connection	Туре	fine-wired
pazie comanete.	Greek seemen ier senaaster seinnesasin	nominal	2.5 mm ²
	wire end ferrule	Stripping length	nominal 20 mm
	Wild Challerfald	Recommended wire-	H2,5/25D BL
		end ferrule	112,07 200 BL
		Stripping length	nominal 18 mm
		Recommended wire- end ferrule	H2,5/18
	Cross-section for conductor connection	Туре	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
	wife ond for die	Recommended wire- end ferrule	H10,0/28 EB
		Stripping length	nominal 18 mm
		Recommended wire-	
		end ferrule	1110,0/ 10
	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
	Signature Conductor Connection	nominal	1.5 mm ²
	wire end ferrule	Stripping length	nominal 20 mm
	Wile ond fortule	Recommended wire- end ferrule	H1,5/24 R
		Stripping length Recommended wire-	nominal 18 mm H1,5/18
		end ferrule	111,0/ 10







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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

Rated current, min. number of poles 101 (Tu=20°C)	1 A	Rated current, max. number of poles (Tu=20°C)	76 A
Rated current, min. number of poles (Tu=40°C) 76 A	A	Rated current, max. number of poles (Tu=40°C)	86 A
Rated voltage for surge voltage class / 100 pollution degree II/2	00 V	Rated voltage for surge voltage class / pollution degree III/2	1000 V
Rated voltage for surge voltage class / 100 pollution degree III/3	00 V	Rated impulse voltage for surge voltage class/ pollution degree II/2	6 kV
Rated impulse voltage for surge voltage 8 kV class/ pollution degree III/2	V	Rated impulse voltage for surge voltage 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)	53 A
Rated current (Use group C / CSA)	53 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 (cURus)	CURUS	Certificate No. (cURus)	E60693
Rated voltage (Use group B / UL 1059)	600 V	Rated voltage (Use group C / UL 1059)	600 V
Rated voltage (Use group D / UL 1059)	600 V	Rated voltage (Use group E / UL 1059)	1000 V
Rated current (Use group B / UL 1059)	53 A	Rated current (Use group C / UL 1059)	53 A
Rated current (Use group D / UL 1059)	5 A	Rated current (Use group E / UL 1059)	53 A
Wire cross-section, AWG, min.	AWG 18	Wire cross-section, AWG, max.	AWG 4
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

Packing

Packaging	Box	VPE length	313.00 mm
VPE width	171.00 mm	VPE height	55.00 mm

Type tests

Test: Durability of markings	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 H07V-U10 and conductor cross-section	
		Type of conductor H07V-K10 and conductor cross-section	
		Type of conductor H07V-U16 and conductor cross-section	
		Type of conductor H07V-K16 and conductor cross-section	

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Technical data

		Type of conductor AWG 4/1 and conductor cross-section
		Type of conductor AWG 4/19 and conductor cross-section
		Type of conductor solid 0.5 mm ² and conductor cross-section
		Type of conductor solid 16 mm ² and conductor cross-section
		Type of conductor stranded 0.5 mm ² and conductor cross-section
		Type of conductor stranded 16 mm ² and conductor cross-section
		Type of conductor AWG 20/1 and conductor cross-section
		Type of conductor AWG 20/19 and conductor cross-section
	Evaluation	passed
est for damage to and accidental	Standard	IEC 60999-1 section 9.4 / 11.99
osening of conductors	Requirement	0.3 kg
	Conductor type	Type of conductor AWG 20/1 and conductor cross-section
		Type of conductor AWG 20/19 and conductor cross-section
		Type of conductor AWG 4/7 and conductor cross-section
		Type of conductor H05V-U0.5 and conductor cross-section
		Type of conductor H05V-K0.5 and conductor cross-section
	Evaluation	passed
	Requirement	2.9 kg
	Conductor type	Type of conductor H07V-U16 and conductor cross-section
		Type of conductor H07V-K16 and conductor cross-section
	Evaluation	passed
	Requirement	4,5 kg
	Conductor type	Type of conductor AWG 4/19 and conductor cross-section
	Evaluation	passed
ıll-out test	Standard	IEC 60999-1 section 9.5 / 11.99
	Requirement Conductor type	≥20 N Type of conductor H05V-U0.5 and conductor cross- section
		Type of conductor H05V-K0.5 and conductor cross-section



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Evaluation	passed
Requirement	≥30 N
Conductor type	Type of conductor AWG 20/1 and conductor cross-section
	Type of conductor AWG 20/19 and conductor cross-section
Evaluation	passed
Requirement	≥100 N
Conductor type	Type of conductor AWG 4/7 and conductor cross-section
	Type of conductor AWG 4/19 and conductor cross-section
	Type of conductor H07V-U16 and conductor cross-section
	Type of conductor H07V-K16 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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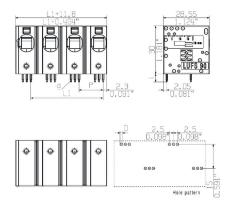
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Drawings

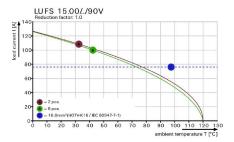
Product image



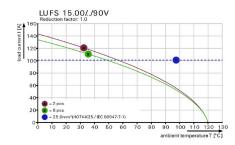
Dimensional drawing



Derating curve



Derating curve



Product benefits



Power up to UL 600 VOffset solder pins





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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 0.8X4.0X100	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

	- · · · J · · · · ·	
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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