



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com



















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: 3, 180°, Solder pin length (I): 5 mm, black, PUSH IN without actuator, Clamping range, max.: 16 mm², Box
Order No.	<u>2492220000</u>
Туре	LUFS 15.00/03/180V 5.0SN BK BX
GTIN (EAN)	4050118564716
Qty.	30 items
Product data	IEC: 1000 V / 101 A / 0.5 - 25 mm ² UL: 600 V / 57 A / AWG 18 - AWG 4
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	24.7 mm	Depth (inches)	0.9724 inch
Height	36.3 mm	Height (inches)	1.4291 inch
Height of lowest version	31.3 mm	Width	41.58 mm
Width (inches)	1.637 inch	Net weight	30.48 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	180°
Pitch in mm (P)	15.00 mm	Pitch in inches (P)	0.591 "
Number of poles	3	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	30.00 mm
L1 in inches	1.181 "	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 mm ²

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Stranded, max. H07V-R	25 mm ²		
lexible, min. H05(07) V-K	0.5 mm ²		
exible, max. H05(07) V-K	25 mm²		
. plastic collar ferrule, DIN 46228	3 pt 4, 0.5 mm²		
in.			
. plastic collar ferrule, DIN 46228	3 pt 4, 16 mm ²		
ax. . wire end ferrule, DIN 46228 pt	1. 0.5 mm ²		
in.	1, 0.5 mm²		
. wire end ferrule, DIN 46228 pt	1. 16 mm ²		
ax.			
ampable conductor	Cross-section for conductor connection	Туре	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- end ferrule	H2,5/18
	Cross-section for conductor connection	Туре	fine-wired
	Cross sociential conductor commodicin	nominal	4 mm ²
	wire end ferrule	Stripping length	nominal 20 mm
	11112 2112 1211	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	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-	H6,0/18
		end ferrule	110,07 10
	Cross-section for conductor connection	Туре	fine-wired
		nominal	10 mm ²
	wire end ferrule	Stripping length	nominal 21 mm
		Recommended wire-	H10,0/28 EB
		end ferrule	
		Stripping length	nominal 18 mm
		Recommended wire-	H10,0/18
	Creas asstice for sanduator samparties	end ferrule	fine wined
	Cross-section for conductor connection	Type	fine-wired 16 mm²
	wire end ferrule	nominal Stripping length	nominal 21 mm
	wile ella lellale	Recommended wire-	H16,0/28 GN
		end ferrule	1110,0/20 UN
		Stripping length	nominal 18 mm
		Recommended wire-	H16,0/18
		end ferrule	
	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-	H1,5/18





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Technical data

D () () () ()	diameter of the plastic collar should not be larger than the pitch (P)
Rated data acc. to IEC	

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)	94.5 A	Rated current, max. number of poles (Tu=40°C)	90.1 A
Rated voltage for surge voltage class / pollution degree II/2	1000 V	Rated voltage for surge voltage class / pollution degree III/2	1000 V
Rated voltage for surge voltage class / pollution degree III/3	1000 V	Rated impulse voltage for surge voltage class/ pollution degree II/2	6 kV
Rated impulse voltage for surge voltage 8 class/ pollution degree III/2	B kV	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)	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 (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)	57 A	Rated current (Use group C / UL 1059)	57 A
Rated current (Use group D / UL 1059)	5 A	Rated current (Use group E / UL 1059)	57 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	269.00 mm
VPE width	167.00 mm	VPE height	44.00 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
Test 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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Technical data

Evaluation	passed		
Requirement	≥30 N		
Conductor type	Type of conductor AWG and conductor cross-section	i 20/1	
	Type of conductor AWG and conductor cross-section	3 20/19	
Evaluation	passed		
Requirement	≥100 N		
Conductor type	Type of conductor AWG and conductor cross-section	i 4/7	
	Type of conductor AWG and conductor cross-section	i 4/19	
	Type of conductor H07V and conductor cross-section	V-U16	
	Type of conductor H07V and conductor cross-section	V-K16	
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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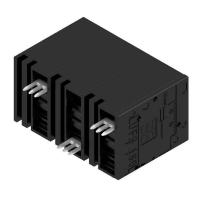
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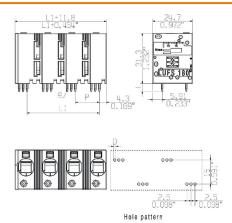
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Drawings

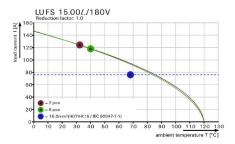
Product image



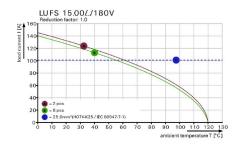
Dimensional drawing



Derating curve



Derating curve



Product benefits



Power up to UL 600 VOffset solder pins