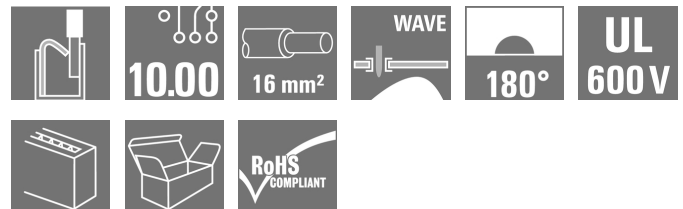


OMNIMATE Power - series LU

LUFS 10.00/03/180V 5.0SN BK BX

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 26
 D-32758 Detmold
 Germany
 Fon: +49 5231 14-0
 Fax: +49 5231 14-292083
 www.weidmueller.com

Product image



High-performance PCB terminal with a PUSH IN connection system for conductor cross-sections up to 16 mm².

- Fast connection without tools thanks to pushers to open the contact point, or direct plug-in method
- Securely closed contact point, with the "Connection Safety Concept" the conductor is always clamped securely
- Integrated test point for PS 2.0 test plug
- Central tip test point for test probes on the upper side of the terminal
- Increased derating reserves because WEMID insulating material is used.
- Conductor outlet direction of 180°

General ordering data

Type	LUFS 10.00/03/180V 5.0SN BK BX
Order No.	2492120000
Version	Printed circuit board terminals, 10.00 mm, Number of poles: 3, 180°, Solder pin length (l): 5 mm, tinned, black, PUSH IN, Clamping range, max.: 16 mm², Box
GTIN (EAN)	4050118559859
Qty.	40 pc(s).
Product data	IEC: 1000 V / 101 A / 0.5 - 25 mm² UL: 600 V / 57 A / AWG 18 - AWG 4
Packaging	Box

Creation date September 2, 2020 11:56:09 AM CEST

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Technical data

Dimensions and weights

Width	31.58 mm	Width (inches)	1.243 inch
Height	36.3 mm	Height (inches)	1.429 inch
Height of lowest version	31.3 mm	Depth	24.7 mm
Depth (inches)	0.972 inch	Net weight	24.906 g

System parameters

Product family	OMNIMATE Power - series LU	Wire connection method	PUSH IN
Mounting onto the PCB	THT solder connection	Conductor outlet direction	180°
Pitch in mm (P)	10 mm	Pitch in inches (P)	0.394 inch
Number of poles	3	Fitted by customer	No
Solder pin length (l)	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	2	Screwdriver blade	0.8 x 4.0
Stripping length	18 mm	L1 in mm	20 mm
L1 in inches	0.787 inch	Touch-safe protection acc. to DIN VDE 0470	IP20 plugged/ IP10 unplugged
Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch		

Material data

Insulating material	Wemid (PA)	Colour	black
Colour of operational elements	orange	Material of operational elements	PA4T GF
Colour chart (similar)	RAL 9011	Insulating material group	I
Comparative Tracking Index (CTI)	≥ 600	Insulation strength	≥ 10 ⁸ Ω
UL 94 flammability rating	V-0	Contact base material	E-Cu
Contact surface	tinned	Layer structure of solder connection	4...10 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.	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	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 4, 0.5 mm ² min.	
w. plastic collar ferrule, DIN 46228 pt 4, 16 mm ² max.	
w. wire end ferrule, DIN 46228 pt 1, 0.5 mm ² min.	
w. wire end ferrule, DIN 46228 pt 1, 16 mm ² max.	
Plug gauge in accordance with EN 60999 a x b; ø	5.4 mm x 5.1 mm; 5.3 mm

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Technical data

Clampable conductor	Cross-section for conductor connection	Type	fine-wired	
		nominal	2.5 mm²	
	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 mm²	
	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	Type	fine-wired	
		nominal	6 mm²	
	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	Type	fine-wired	
		nominal	10 mm²	
	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	Type	fine-wired	
		nominal	16 mm²	
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	Type	fine-wired		
	nominal	1.5 mm²		
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		
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)			
Max. clamping range	16 mm²			

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Technical data
Rated data acc. to IEC

tested acc. to standard

IEC 60947-7-4

 Rated current, max. number of poles
 (Tu=20°C)

85.8 A

 Rated current, max. number of poles
 (Tu=40°C)

76 A

 Rated voltage for surge voltage class /
 pollution degree III/2

1,000 V

 Rated impulse voltage for surge voltage
 class/ pollution degree II/2

6 kV

 Rated impulse voltage for surge voltage
 class/ contamination degree III/3

8 kV

 Rated current, min. number of poles
 (Tu=20°C)

101 A

 Rated current, min. number of poles
 (Tu=40°C)

101 A

 Rated voltage for surge voltage class /
 pollution degree II/2

1,000 V

 Rated voltage for surge voltage class /
 pollution degree III/3

1,000 V

 Rated impulse voltage for surge voltage
 class/ pollution degree III/2

8 kV

Rated data acc. to CSA

Rated voltage (Use group B / CSA)

600 V

Rated voltage (Use group D / CSA)

600 V

Rated current (Use group C / CSA)

57 A

Wire cross-section, AWG, min.

AWG 18

Rated voltage (Use group C / CSA)

600 V

Rated current (Use group B / CSA)

57 A

Rated current (Use group D / CSA)

5 A

Wire cross-section, AWG, max.

AWG 4

Rated data acc. to UL 1059

Institute (cURus)



Certificate No. (cURus)

E60693

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.

Rated voltage (Use group C / UL 1059)

600 V

Rated voltage (Use group F / UL 1059)

1,000 V

Rated current (Use group C / UL 1059)

57 A

Rated current (Use group F / UL 1059)

57 A

Wire cross-section, AWG, max.

AWG 4

Packing

Packaging

Box

VPE length

275 mm

VPE width

170 mm

VPE height

40 mm

Classifications

ETIM 6.0

EC002643

ETIM 7.0

EC002643

eClass 9.0

27-44-04-01

eClass 9.1

27-44-04-01

eClass 10.0

27-44-04-01

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Technical data

Notes

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.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

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.

Approvals

Approvals



ROHS

Conform

Downloads

Approval/Certificate/Document of Conformity

[Declaration of the Manufacturer](#)

Engineering Data

[STEP](#)

White paper power electronics connected correctly

[Download Whitepaper](#)

User Documentation

[QR-Code product handling video](#)

White paper UL 600 V

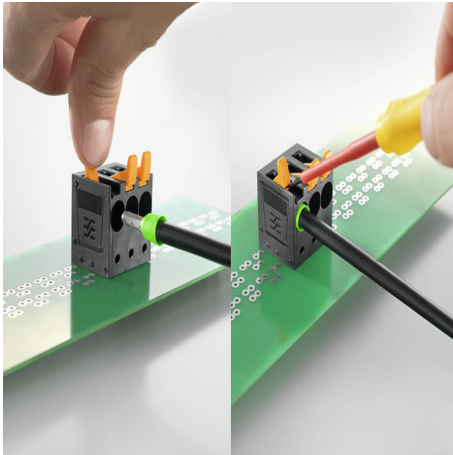
[Download Whitepaper](#)

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Drawings

Product benefits



Simple actuation of the contact point