

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

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High-performance PCB terminal with a PUSH IN connection system for conductor cross-sections up to 16 mm<sup>2</sup>.

- 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**

Version	Printed circuit board terminals, 10.00 mm, Number of poles: 4, 180°, Solder pin length (I): 5 mm, tinned, black, PUSH IN with actuator, Clamping range, max. : 16 mm², Box
Order No.	<u>2492130000</u>
Туре	LUFS 10.00/04/180V 5.0SN BK BX
GTIN (EAN)	4050118559866
Qty.	30 items
Product data	IEC: 1000 V / 101 A / 0.5 - 25 mm <sup>2</sup> UL: 600 V / 57 A / AWG 18 - AWG 4
Packaging	Вох







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# **Technical data**

Ap	proval	s
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Approvals	c <b>AL</b> *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	32.9 g

## **Environmental Product Compliance**

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

#### **System parameters**

	ONANUMANTE D	AAP C (I I	DUCLIN :
Product family	OMNIMATE Power - series LU	Wire connection method	PUSH IN with actuator
Mounting onto the PCB	THT solder connection	Conductor outlet direction	180°
Pitch in mm (P)	10.00 mm	Pitch in inches (P)	0.394 "
Number of poles	4	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	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	Safe from finger touch	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-O	Contact base material	E-Cu
Contact material	Cu-alloy	Contact surface	tinned
Layer structure of solder connection	410 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 <sup>2</sup>		
Clamping range, max.	16 mm <sup>2</sup>		
Wire connection cross section AWG,	AWG 18		
min.			
Wire connection cross section AWG,	AWG 4		
max.			
Solid, min. H05(07) V-U	0.5 mm <sup>2</sup>		

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# Technical data

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Colid may UNE/O7\\/II	16 mm²		
Solid, max. H05(07) V-U Stranded, min. H07V-R	6 mm <sup>2</sup>		
Stranded, max. H07V-R			
	25 mm <sup>2</sup>		
Flexible, min. H05(07) V-K	0.5 mm <sup>2</sup>		
Flexible, max. H05(07) V-K	25 mm <sup>2</sup>		
w. plastic collar ferrule, DIN 46228 pt 4 min.	, 0.5 mm²		
w. plastic collar ferrule, DIN 46228 pt 4 max.	, 16 mm²		
w. wire end ferrule, DIN 46228 pt 1, min.	0.5 mm <sup>2</sup>		
w. wire end ferrule, DIN 46228 pt 1, max.	16 mm <sup>2</sup>		
Plug gauge in accordance with EN 60999 a x b; ø	5.4 mm x 5.1 mm; 5.3 mm		
Clampable conductor	Cross-section for conductor connection	Type	fine-wired
		nominal	2.5 mm <sup>2</sup>
	wire end ferrule	Stripping length	nominal 20 mm
		Recommended wire-	H2,5/25D BL
		end ferrule	nominal 18 mm
		Stripping length	
		Recommended wire- end ferrule	H2,5/18
	Cross-section for conductor connection	Туре	fine-wired
		nominal	4 mm <sup>2</sup>
	wire end ferrule	Stripping length	nominal 20 mm
		Recommended wire- end ferrule	H4,0/26D GR
		Stripping length	nominal 18 mm
		Recommended wire-	H4,0/18
	Construction for an about a construction	end ferrule	£
	Cross-section for conductor connection	Туре	fine-wired
		nominal	6 mm <sup>2</sup>
	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 <sup>2</sup>
	wire end ferrule	Stripping length	nominal 21 mm
		Recommended wire-	H10,0/28 EB
			nominal 18 mm
		end ferrule	•
	Cross-section for conductor connection	Туре	fine-wired
		nominal	
	wire end ferrule	Stripping length	nominal 21 mm
		Recommended wire- end ferrule	H16,0/28 GN
			nominal 18 mm
		Stripping length	HOHIIIai TO IIIII
		Recommended wire-	H16,0/18
		Recommended wire- end ferrule	H16,0/18
	Cross-section for conductor connection	Recommended wire- end ferrule Type	H16,0/18 fine-wired
		Recommended wire- end ferrule Type nominal	H16,0/18 fine-wired 1.5 mm <sup>2</sup>
	Cross-section for conductor connection  wire end ferrule	Recommended wire- end ferrule Type	H16,0/18 fine-wired
		end ferrule Stripping length Recommended wire- end ferrule Type nominal Stripping length Recommended wire- end ferrule	nominal   18







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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	•	voltage., Th	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)	85.8 A	Rated current, min. number of poles (Tu=40°C)	101 A
Rated current, max. number of poles (Tu=40°C)	76 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 class/ pollution degree III/2	8 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 F / 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 F / 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	268.00 mm
VPE width	170.00 mm	VPE height	44.00 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 <sup>2</sup> and conductor cross-section	
		Type of conductor stranded 0.5 mm <sup>2</sup> and conductor cross-section	

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# **LUFS 10.00/04/180V 5.0SN BK BX**

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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 <sup>2</sup>
		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
- $\bullet$  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		



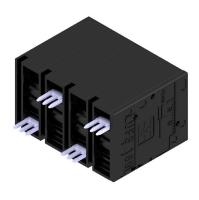
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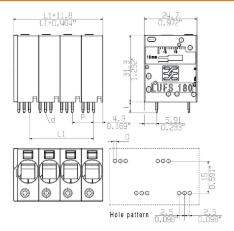
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# **Drawings**

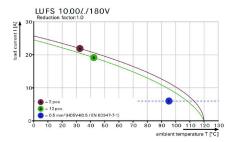
## **Product image**



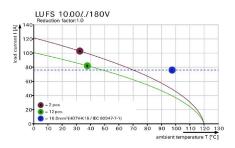
# **Dimensional drawing**



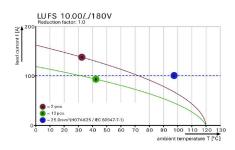
## **Derating curve**



## **Derating curve**



# **Derating curve**



### **Product benefits**



Power up to UL 600 VOffset solder pins



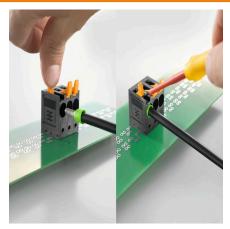
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# **Drawings**

## **Product benefits**



Simple actuation of the contact point