

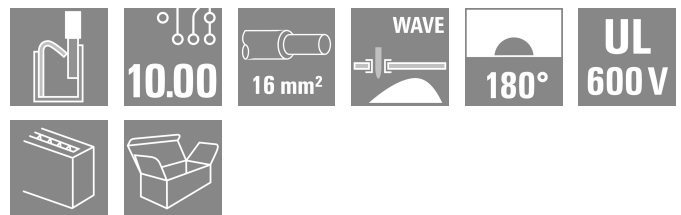
LUFS 10.00/01/180 5.0SN BL BX**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com



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

Version	Printed circuit board terminals, 10.00 mm, Number of poles: 1, 180°, Solder pin length (l): 5 mm, blue, PUSH IN with actuator, Box
Order No.	2978460000
Type	LUFS 10.00/01/180 5.0SN BL BX
GTIN (EAN)	4099986830424
Qty.	50 items
Product data	IEC: 1000 V / 0.5 - 16 mm ² UL: 600 V / AWG 18 - AWG 4
Packaging	Box

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Technical data

Dimensions and weights

Depth	24.7 mm	Depth (inches)	0.9724 inch
Height	36.3 mm	Height (inches)	1.4291 inch
Width	11.58 mm	Width (inches)	0.4559 inch
Net weight	9.86 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 actuator
Mounting onto the PCB	THT solder connection	Conductor outlet direction	180°
Pitch in mm (P)	10.00 mm	Number of poles	1
Pin series quantity	1	Solder pin length (l)	5 mm
Solder pin dimensions	d = 1.2 mm, Octagonal	Solder eyelet hole diameter tolerance (D)+	0,1 mm
Protection degree	IP20		

Material data

Insulating material	Wemid (PA)	Colour	blue
Colour chart (similar)	RAL 5012	Moisture Level (MSL)	
UL 94 flammability rating	V-0	Contact material	Cu-alloy
Layer structure of solder connection	4...10 µm Sn matt	Operating temperature, min.	-40 °C
Operating temperature, max.	120 °C		

Conductors suitable for connection

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	16 mm ²		
Flexible, min. H05(07) V-K	0.5 mm ²		
Flexible, max. H05(07) V-K	16 mm ²		
w. wire end ferrule, DIN 46228 pt 1, min.	0.5 mm ²		
w. wire end ferrule, DIN 46228 pt 1, max.	16 mm ²		
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 ²
	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 mm ²
	wire end ferrule	Stripping length	nominal 20 mm
		Recommended wire-end ferrule	H4,0/26D GR
		Stripping length	nominal 18 mm

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		Recommended wire-end ferrule	H4,0/18
Cross-section for conductor connection	Type	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	Type	fine-wired	
	nominal	10 mm ²	
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 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	Type	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-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)

Rated data acc. to IEC

Rated current, max. number of poles (Tu=20°C)	76 A	Rated current, min. 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 impulse voltage for surge voltage class/ pollution degree II/2	8 kV	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 C / CSA)	600 V
Rated voltage (Use group D / CSA)	600 V	Wire cross-section, AWG, min.	AWG 18
Wire cross-section, AWG, max.	AWG 4		

Rated data acc. to UL 1059

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
Wire cross-section, AWG, min.	AWG 18	Wire cross-section, AWG, max.	AWG 4

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Packing

Packaging	Box	VPE length	168.00 mm
VPE width	124.00 mm	VPE height	50.00 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 and conductor cross-section	solid 0.5 mm ²
		Type of conductor and conductor cross-section	stranded 0.5 mm ²
		Type of conductor and conductor cross-section	solid 16 mm ²
		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 loosening of conductors	Standard	IEC 60999-1 section 9.4 / 11.99	
	Requirement	0.3 kg	
	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	

Technical data

Pull-out test	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	
	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
	Evaluation	passed	
	Requirement	≥100 N	
	Conductor type	Type of conductor and conductor cross-section	H07V-U16
		Type of conductor and conductor cross-section	H07V-K16
	Evaluation	passed	
	Requirement	≥ 135 N	
	Conductor type	Type of conductor and conductor cross-section	AWG 4/7
		Type of conductor and conductor cross-section	AWG 4/19
	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 °C and maximum humidity 70%, 36 months

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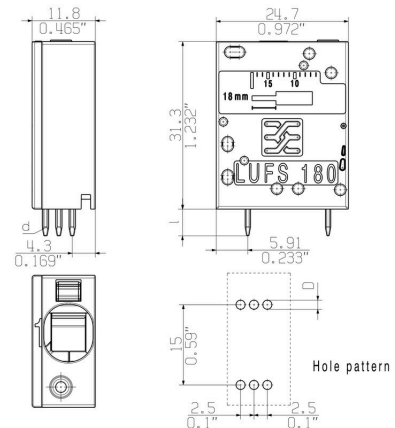
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Technical data

Classifications

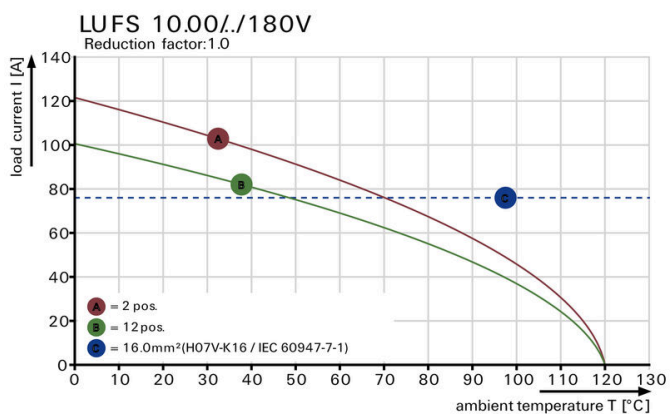
ETIM 8.0	EC002643	ETIM 9.0	EC002643
ETIM 10.0	EC002643	ECLASS 14.0	27-46-01-01
ECLASS 15.0	27-46-01-01		

Dimensional drawing



Graph

Derating curve



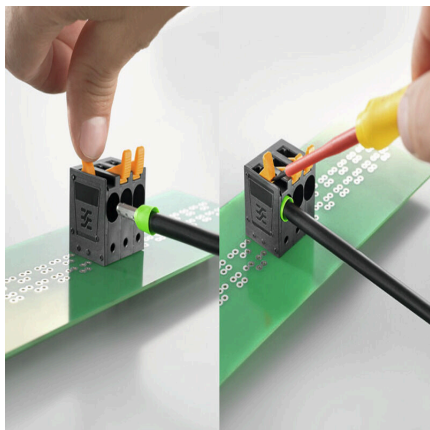
Product benefits



Power up to UL 600 V offset solder pins

Drawings

Product benefits



Simple actuation of the contact point