



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

#### **Product image**















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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: 2, 90°, Solder pin length (I): 5 mm, tinned, black, PUSH IN with lever, Clamping range, max.: 25 mm², Box	
Order No.	<u>2453690000</u>	
Туре	LUF 10.00/02/90V 5.0SN BK BX	
GTIN (EAN)	4050118493627	
Qty.	40 items	
Product data	IEC: 1000 V / 92 A / 0.5 - 25 mm <sup>2</sup> UL: 600 V / 58 A / AWG 18 - AWG 6	
Packaging	Вох	





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## **Technical data**

Approvals	
Approvals	c <b>FL</b> Eus
ROHS	Conform
UL File Number Search	<u>UL Website</u>
Certificate No. (cURus)	E60693

#### **Dimensions and weights**

Depth	26.45 mm	Depth (inches)	1.0413 inch
Height	47.03 mm	Height (inches)	1.8516 inch
Height of lowest version	42.03 mm	Width	21.58 mm
Width (inches)	0.8496 inch	Net weight	21.3 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 lever
Mounting onto the PCB	THT solder connection	Conductor outlet direction	90°
Pitch in mm (P)	10.00 mm	Pitch in inches (P)	0.394 "
Number of poles	2	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	10.00 mm
L1 in inches	0.394 "	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 <sup>2</sup>	Protection degree	IP20

#### **Material data**

Insulating material	Wemid (PA)	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	ı
Comparative Tracking Index (CTI)	≥ 600	Moisture Level (MSL)	
UL 94 flammability rating	V-0	Contact base material	E-Cu
Contact material	Cu-alloy	Contact surface	tinned
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.	25 mm <sup>2</sup>
Wire connection cross section AWG, min.	AWG 20
Wire connection cross section AWG, max.	AWG 4
Solid, min. H05(07) V-U	0.5 mm <sup>2</sup>
Solid, max. H05(07) V-U	16 mm <sup>2</sup>

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## Technical data

Technical data		
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 min.		
w. plastic collar ferrule, DIN 46228 pt max.	4, 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 mm²	
Plug gauge in accordance with EN 60999 a x b; ø	5.3mm (B6)	
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
		Stripping length nominal 18 mm
		Recommended wire- H2,5/18 end ferrule
	Cross-section for conductor connection	Type fine-wired
		nominal 4 mm <sup>2</sup>
	wire end ferrule	Stripping length nominal 20 mm
		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	Type fine-wired
		nominal 6 mm <sup>2</sup>
	wire end ferrule	Stripping length nominal 20 mm
		Recommended wire- end ferrule
		Stripping length nominal 18 mm
		Recommended wire- H6.0/18 end ferrule
	Cross-section for conductor connection	Type fine-wired
		nominal 10 mm <sup>2</sup>
	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 end ferrule
	Cross-section for conductor connection	Type fine-wired
		nominal 16 mm <sup>2</sup>
	wire end ferrule	Stripping length nominal 21 mm
		Recommended wire- H16,0/28 GN end ferrule
		Stripping length nominal 18 mm
		Recommended wire- H16,0/18 end ferrule
	Cross-section for conductor connection	Type fine-wired
		nominal 1.5 mm <sup>2</sup>
	wire end ferrule	Stripping length nominal 20 mm
		Recommended wire- end ferrule
		Ctuit and a second seco

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Stripping length

nominal

18 mm







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IEC 60999-1 section 7 and 9.1 / 11.99, IEC

solid 0.5 mm<sup>2</sup>

solid 16 mm<sup>2</sup>

stranded 0.5 mm<sup>2</sup>

60947-1 section 8.2.4.5.1 / 03.11

Type of conductor

Type of conductor

Type of conductor

section

section

section

and conductor cross-

and conductor cross-

and conductor cross-

## Technical data

		Recommended wir end ferrule	re- <u>H1,5/18</u>
Reference text		nosen depending on the product and the r r should not be larger than the pitch (P)	ated voltage., The outsid
Rated data acc. to IEC			
tantad and to storedowd	IEC 60947-7-4	Dated assurant unin possebas of males	92 A
tested acc. to standard	1EC 60947-7-4	Rated current, min. number of poles (Tu=20°C)	92 A
Rated current, max. number of poles (Tu=20°C)	80 A	Rated current, min. number of poles (Tu=40°C)	82 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	690 V	Rated voltage for surge voltage class / pollution degree III/3	1000 V
Rated impulse voltage for surge voltage class/ pollution degree II/2		Rated impulse voltage for surge voltage class/ pollution degree III/2	e 6 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)	58 A
Rated current (Use group C / CSA)	58 A	Rated current (Use group D / CSA)	5 A
Wire cross-section, AWG, min.	AWG 18	Wire cross-section, AWG, max.	AWG 6
Rated data acc. to UL 1059			_
Institute (cURus)	CURUS	Certificate No. (cURus)	E60693
Rated voltage (Use group B / UL 1059)		Rated voltage (Use group C / UL 1059)	
Rated voltage (Use group D / UL 1059)		Rated current (Use group B / UL 1059)	
Rated current (Use group C / UL 1059)		Rated current (Use group D / UL 1059)	
Wire cross-section, AWG, min.	AWG 18	Wire cross-section, AWG, max.	AWG 6
Reference to approval values	Specifications are maximum values, details - see approval certificate.	vine close coodien, , viv c, max.	7,1100
Packing			
Do also min m	Day	VDE law state	215.00
Packaging	Box 111 00	VPE length	315.00 mm
VPE width	111.00 mm	VPE height	53.00 mm
Type tests			
Test: Durability of markings	Standard	IEC 60947-1 section 60512-1-1:2002-02	n 8.2.4.5.1 / 06.07, IEC
	Test	mark of origin, type durability, stripping l	identification, pitch,
	Evaluation	oveileble	

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Test: Clampable cross section

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Evaluation

Conductor type

Standard

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### **LUF 10.00/02/90V 5.0SN BK BX**

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## **Technical data**

		Type of conductor stranded 16 mm <sup>2</sup> and conductor cross-
		and conductor cross- section
		Type of conductor H07V-U16 and conductor cross-section
		Type of conductor H07V-U6 and conductor cross-section
		Type of conductor H07V-K16 and conductor cross-section
		Type of conductor AWG 4 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 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 4/7 and conductor cross-section
		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	≥20 N
	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 H05V-U0.5 and conductor cross-section
		Type of conductor H05V-K0.5 and conductor cross-section
	Evaluation	passed
	Requirement	≥100 N

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## **Technical data**

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

#### Classifications

	<u>'</u>		
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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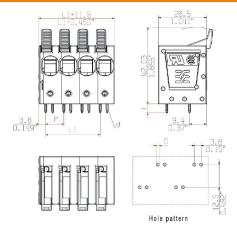
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## **Drawings**

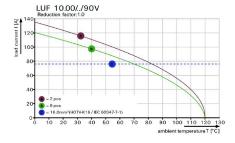
#### **Product image**



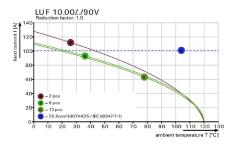
#### **Dimensional drawing**



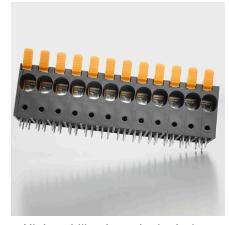
#### **Derating curve**



#### **Derating curve**



#### **Product benefits**



High stability through pin design



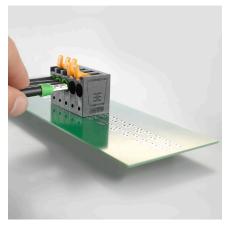
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## **Drawings**

#### **Product benefits**



PUSH IN connection up to 16 mm<sup>2</sup>