



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Product image

























This PCB terminal provides connections for 76 A and 16 mm² conductor cross-section with proven clamping yoke connection at 10.16 mm pitch, conductor outlet direction in 90° design.

General ordering data

Version	Printed circuit board terminals, 10.16 mm, Number of poles: 10, 90°, Solder pin length (I): 4.5 mm, tinned, black, Clamping yoke connection, Clamping range, max. : 16 mm², Box
Order No.	<u>1226280000</u>
Туре	LU 10.16/10/90 4.5SN BK BX
GTIN (EAN)	4050118010824
Qty.	20 items
Product data	IEC: 1000 V / 76 A / 0.5 - 16 mm ² UL: 300 V / 65 A / AWG 26 - AWG 6
Packaging	Вох

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Technical data

Approvals

Approvals



ROHS	Conform
UL File Number Search	<u>UL Website</u>
Certificate No. (UR)	E60693

Dimensions and weights

Depth	18.3 mm	Depth (inches)	0.7205 inch
Height	33 mm	Height (inches)	1.2992 inch
Height of lowest version	28.5 mm	Width	101.6 mm
Width (inches)	4 inch	Net weight	93.85 g

Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption	
REACH SVHC	No SVHC above 0.1 wt%	
Product Carbon Footprint	Cradle to gate	0.662 kg CO2eq.

System parameters

Product family	OMNIMATE Power - series LU	Wire connection method	Clamping yoke connection
Mounting onto the PCB	THT solder connection	Conductor outlet direction	90°
Pitch in mm (P)	10.16 mm	Pitch in inches (P)	0.400 "
Number of poles	10	Pin series quantity	1
Fitted by customer	Yes	Number of rows	1
Max. adjacent poles per row	10	Solder pin length (I)	4.5 mm
Solder pin dimensions	1.2 x 1.2 mm	Solder pin dimensions = d tolerance	0 / -0,15 mm
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	1.0 x 5.5
Screwdriver blade standard	DIN 5264	Tightening torque, min.	1.2 Nm
Tightening torque, max.	2.2 Nm	Clamping screw	M 4
Stripping length	12 mm	L1 in mm	91.44 mm
L1 in inches	3.600 "	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
Volume resistance	0.50 mΩ		

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
Contact surface	tinned	Layer structure of solder connection	1.53 μm Ni / 46 μm Sn matt
Storage temperature, min.	-40 °C	Storage temperature, max.	70 °C
Operating temperature, min.	-50 °C	Operating temperature, max.	120 °C
Temperature range, installation, min.	-25 ℃	Temperature range, installation, max.	120 °C

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Conductors suitable for conn	ection	
Clamping range, min.	0.14 mm ²	
Clamping range, max.	16 mm²	
Vire connection cross section AWG, nin.	AWG 22	
Vire connection cross section AWG,	AWG 8	
nax.	AVVG o	
Solid, min. H05(07) V-U	0.5 mm ²	
olid, max. H05(07) V-U	16 mm ²	
tranded, min. H07V-R	6 mm ²	
tranded, max. H07V-R	16 mm ²	
lexible, min. H05(07) V-K	0.5 mm ²	
lexible, max. H05(07) V-K	16 mm²	
. plastic collar ferrule, DIN 46228 pt	4, 2.5 mm ²	
in.		
. plastic collar ferrule, DIN 46228 pt	4, 10 mm²	
ax.	0.5	
. wire end ferrule, DIN 46228 pt 1, in.	2.5 mm ²	
wire end ferrule, DIN 46228 pt 1,	10 mm²	
ax.		
ug gauge in accordance with EN 0999 a x b; ø	5.4 mm x 5.1 mm; 5.3 mm	
ampable conductor	Cross-section for conductor connection	Type fine-wired
		nominal 2.5 mm ²
	wire end ferrule	Stripping length nominal 12 mm
		Recommended wire- H2,5/12 end ferrule
		Stripping length nominal 14 mi
		Recommended wire- H2,5/19D BL end ferrule
	Cross-section for conductor connection	Type fine-wired
		nominal 4 mm ²
	wire end ferrule	Stripping length nominal 12 mi
		Recommended wire- H4,0/12
		end ferrule
		Stripping length nominal 14 mm
		Recommended wire- H4,0/20D GR end ferrule
	Cross-section for conductor connection	Type fine-wired
		nominal 6 mm ²
	wire end ferrule	Stripping length nominal 12 mi
		Recommended wire- H6,0/12 end ferrule
		Stripping length nominal 14 mm
		Recommended wire- H6,0/20 SW end ferrule
	Cross-section for conductor connection	Type fine-wired
		nominal 10 mm ²
	wire end ferrule	Stripping length nominal 15 mm
		Recommended wire- H10,0/22 EB end ferrule
		Stripping length nominal 12 mi
		Recommended wire- H10,0/12
		end ferrule

Creation date 27.09.2025 11:37:10 MEZ

diameter of the plastic collar should not be larger than the pitch (P)



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Rated da	ata acc.	. to	IEC
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tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. number of poles (Tu=20°C)	76 A
Rated current, max. number of poles (Tu=20°C)	72 A	Rated current, min. number of poles (Tu=40°C)	76 A
Rated current, max. number of poles (Tu=40°C)	62 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	690 V
Rated impulse voltage for surge voltage class/ pollution degree II/2	4 kV	Rated impulse voltage for surge voltage class/ pollution degree III/2	6 kV
Rated impulse voltage for surge voltage class/ contamination degree III/3	6 kV	Short-time withstand current resistance	2 x 1s with 700 A

Rated data acc. to CSA

Institute (CSA)	CSA	Certificate No. (CSA)	200039-1198743
Rated voltage (Use group B / CSA)	300 V	Rated voltage (Use group C / CSA)	150 V
Rated voltage (Use group D / CSA)	300 V	Rated current (Use group B / CSA)	65 A
Rated current (Use group C / CSA)	65 A	Rated current (Use group D / CSA)	10 A
Wire cross-section, AWG, min.	AWG 22	Wire cross-section, AWG, max.	AWG 6
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

Rated data acc. to UL 1059

Institute (UR)	UR	Certificate No. (UR)	E60693
Rated voltage (Use group B / UL 1059)	300 V	Rated voltage (Use group C / UL 1059)	150 V
Rated voltage (Use group D / UL 1059)	600 V	Rated current (Use group B / UL 1059)	65 A
Rated current (Use group C / UL 1059)	65 A	Rated current (Use group D / UL 1059)	5 A
Wire cross-section, AWG, min.	AWG 26	Wire cross-section, AWG, max.	AWG 6
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

Packing

Packaging	Box	VPE length	165.00 mm
VPE width	147.00 mm	VPE height	74.00 mm

Type tests

Test: Durability of markings	Test	mark of origin, type identification, type of material, rated cross-section, approval marking CSA, approval marking UL, pitch, durability	
	Evaluation	available	
Test: Clampable cross section	Standard	EN 60999/1993	
	Conductor type	Type of conductor H05V-K0.5 and conductor cross- section	
		Type of conductor H05V-U0.5 and conductor cross-section	
		Type of conductor H07V-K10 and conductor cross-section	
		Type of conductor H07V-U10 and conductor cross-section	

Creation date 27.09.2025 11:37:10 MEZ

Catalogue status / Drawings 4



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5

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Technical data

		Type of conductor H07V-U16 and conductor cross-section
		Type of conductor AWG8/7 and conductor cross-section
		Type of conductor AWG 8/19 and conductor cross-section
		Type of conductor AWG 22/1 and conductor cross-section
		Type of conductor AWG 22/19 and conductor cross-section
	Evaluation	passed
Test for damage to and accidental	Standard	EN 60947-1/1991 section 8.2.4.3
loosening of conductors	Requirement	0.3 kg
Toolsoning of contents of	Conductor type	Type of conductor H05V-K0.5 and conductor cross-section
		Type of conductor H05V-U0.5 and conductor cross-section
		Type of conductor AWG 22/1 and conductor cross-section
		Type of conductor AWG 22/19 and conductor cross-section
	Evaluation	passed
	Requirement	2.0 kg
	Conductor type	Type of conductor H07V-K10 and conductor cross-section
		Type of conductor H07V-U10 and conductor cross-section
		Type of conductor AWG8/7 and conductor cross-section
		Type of conductor AWG 8/19 and conductor cross-section
	Evaluation	passed
	Requirement	2.9 kg
	Conductor type	Type of conductor H07V-U16 and conductor cross-section
	Evaluation	passed
Pull-out test	Standard	EN 60947-1/1991 section 8.2.4.4
	Requirement	≥20 N
	Conductor type	Type of conductor AWG 22/1 and conductor cross-section
		Type of conductor AWG 22/19 and conductor cross-section
	Evaluation	passed
	Requirement	≥30 N
	Conductor type	Type of conductor H05V-K0.5 and conductor cross-section

Creation date 27.09.2025 11:37:10 MEZ

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Evaluation	Type of conductor and conductor cross-section	H05V-U0.5	
Requirement	passed ≥ 90N		
Conductor type	Type of conductor and conductor cross-section	H07V-K10	
	Type of conductor and conductor cross-section	H07V-U10	
	Type of conductor and conductor cross-section	AWG8/7	
	Type of conductor and conductor cross-section	AWG 8/19	
Evaluation	passed		
Requirement	≥100 N		
Conductor type	Type of conductor and conductor cross-section	H07V-U16	
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.
- Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months

Classifications

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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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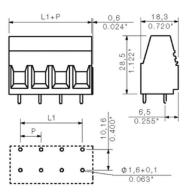
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Drawings

Product image



Dimensional drawing



Graph

