



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Product image























Similar to illustration

This PCB terminal provides connections for 1000 V, 6 mm² conductor cross-section and 32 A with proven clamping yoke connection at 7.50 mm and 7.62 mm pitch, conductor outlet direction in 90° and 180° design.

General ordering data

Version	Printed circuit board terminals, 7.50 mm, Number of poles: 3, 90°, Solder pin length (I): 4.5 mm, tinned, orange, Clamping yoke connection, Clamping range, max.: 6 mm², Box
Order No.	<u>1594630000</u>
Туре	LP 7.50/03/90 4.5SN OR BX
GTIN (EAN)	4008190159443
Qty.	100 items
Product data	IEC: 1000 V / 32 A / 0.5 - 6 mm ² UL: 300 V / 20 A / AWG 26 - AWG 12
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	19 mm	Depth (inches)	0.748 inch
Height	15.5 mm	Height (inches)	0.6102 inch
Height of lowest version	11 mm	Width	23.1 mm
Width (inches)	0.9094 inch	Net weight	5.28 g

Environmental Product Compliance

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

System parameters

Product family	OMNIMATE Signal - series LP	Wire connection method	Clamping yoke connection
Mounting onto the PCB	THT solder connection	Conductor outlet direction	90°
Pitch in mm (P)	7.50 mm	Pitch in inches (P)	0.295 "
Number of poles	3	Pin series quantity	1
Fitted by customer	Yes	Number of rows	1
Max. adjacent poles per row	16	Solder pin length (I)	4.5 mm
Solder pin dimensions	0.75 x 0.9 mm	Solder eyelet hole diameter (D)	1.3 mm
Solder eyelet hole diameter tolerance (D)+ 0,1 mm		Number of solder pins per pole	1
Screwdriver blade	0.6 x 3.5	Screwdriver blade standard	DIN 5264
Tightening torque, min.	0.5 Nm	Tightening torque, max.	0.6 Nm
Clamping screw	M 3	Stripping length	6 mm
L1 in mm	15.00 mm	L1 in inches	0.591 "
Touch-safe protection acc. to DIN VDE 0470	IP 20	Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch
Protection degree	IP20	Volume resistance	1.20 mΩ

Material data

Insulating material	PA	Colour	orange
Colour chart (similar)	RAL 2000	Insulating material group	1
Comparative Tracking Index (CTI)	≥ 600	Moisture Level (MSL)	
UL 94 flammability rating	V-2	Contact material	Cu-alloy
Contact surface	tinned	Coating	1-3 µm Ni, 4-6 µm SN
Tinning type	matt	Layer structure of solder connection	46 μm Ni / 46 μm Sn
Storage temperature, min.	-40 °C	Storage temperature, max.	70 °C
Operating temperature, min.	-50 °C	Operating temperature, max.	100 °C
Temperature range, installation, min.	-25 °C	Temperature range, installation, max.	100 °C

Conductors suitable for connection

Clamping range, min.	0.13 mm ²
Clamping range, max.	6 mm ²

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Wire connection cross section AWG, min.	AWG 26	
Wire connection cross section AWG, max.	AWG 12	
Solid, min. H05(07) V-U	0.5 mm ²	
Solid, max. H05(07) V-U	6 mm²	
Stranded, max. H07V-R	6 mm²	
Flexible, min. H05(07) V-K	0.5 mm ²	
Flexible, max. H05(07) V-K	4 mm²	
w. plastic collar ferrule, DIN 46228 pt 4 min.	l, 0.5 mm²	
w. plastic collar ferrule, DIN 46228 pt 4 max.	l, 2.5 mm²	
w. wire end ferrule, DIN 46228 pt 1, min.	0.5 mm ²	
w. wire end ferrule, DIN 46228 pt 1, max.	2.5 mm ²	
Plug gauge in accordance with EN 60999 a x b; ø	2.8 mm x 2.4 mm; 3.0 mm	
Clampable conductor	Cross-section for conductor connection	Type fine-wired
		nominal 0.5 mm ²
	wire end ferrule	Stripping length nominal 8 mm
		Recommended wire- H0,5/12 OR end ferrule
		Stripping length nominal 6 mm
		Recommended wire- H0,5/6 end ferrule
	Cross-section for conductor connection	Type fine-wired
		nominal 0.75 mm ²
	wire end ferrule	Stripping length nominal 8 mm
		Recommended wire- H0,75/12 W end ferrule
		Stripping length nominal 6 mm
		Recommended wire- H0,75/6 end ferrule
	Cross-section for conductor connection	Type fine-wired
		nominal 1 mm ²
	wire end ferrule	Stripping length nominal 8 mm
		Recommended wire- H1.0/12 GE end ferrule
		Stripping length nominal 6 mm
		Recommended wire- H1,0/6 end ferrule
Reference text	Length of ferrules is to be chosen depending of	on the product and the rated voltage., The outside

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

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. number of poles (Tu=20°C)	32 A
Rated current, max. number of poles (Tu=20°C)	32 A	Rated current, min. number of poles (Tu=40°C)	32 A
Rated current, max. number of poles (Tu=40°C)	30.5 A	Rated voltage for surge voltage class / pollution degree II/2	1000 V
Rated voltage for surge voltage class / pollution degree III/2	500 V	Rated voltage for surge voltage class / pollution degree III/3	500 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	6 kV
Rated impulse voltage for surge voltage class/ contamination degree III/3	6 kV	Short-time withstand current resistance	3 x 1s with 120 A





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Technical data

Rated	data	acc.	to	CSA
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Institute (CSA)	CSA	Certificate No. (CSA)	200039-1202191
Rated voltage (Use group B / CSA)	300 V	Rated voltage (Use group D / CSA)	300 V
Rated current (Use group B / CSA)	20 A	Rated current (Use group D / CSA)	10 A
Wire cross-section, AWG, min.	AWG 26	Wire cross-section, AWG, max.	AWG 12
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 D / UL 1059)	300 V
Rated current (Use group B / UL 1059)	20 A	Rated current (Use group D / UL 1059)	10 A
Wire cross-section, AWG, min.	AWG 26	Wire cross-section, AWG, max.	AWG 12
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

Packing

Packaging	Box	VPE length	145.00 mm
VPE width	115.00 mm	VPE height	65.00 mm

Type tests

Test: Durability of markings	Standard	DIN EN 60512-1-1 / 01.03		
	Test	mark of origin, type identification, rated voltage, rated cross-section, pitch, approval marking SEV, durability		
	Evaluation	available		
Test: Clampable cross section	Standard	DIN EN 60947-1 section 8.2.4.5.1 / 07.98, DIN EN 60999 section 6 and 8.1 / 04.94		
	Conductor type	Type of conductor solid 0,12 mm ² and conductor cross-section		
		Type of conductor flexible 0,12 mm ² and conductor cross-section		
		Type of conductor flexible 4 mm ² and conductor cross-section		
		Type of conductor solid 6 mm ² and conductor cross-section		
		Type of conductor AWG 26/1 and conductor cross-section		
		Type of conductor AWG 26/19 and conductor cross-section		
		Type of conductor AWG 12/1 and conductor cross-section		
		Type of conductor AWG 12/19 and conductor cross-section		
	Evaluation	passed		
Test for damage to and accidental	Standard	DIN EN 60999 section 8.4 / 04.94		
loosening of conductors	Requirement	0.2 kg		

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Conductor type	Type of conductor and conductor cross-section	AWG 24/1
	Type of conductor and conductor cross-section	AWG 24/19
Evaluation	passed	
Requirement	0.3 kg	
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
Evaluation	passed	
Requirement	0.9 kg	
Conductor type	Type of conductor and conductor cross-section	flexible 4 mm ²
	Type of conductor and conductor cross-section	AWG 12/1
	Type of conductor and conductor cross-section	AWG 12/19
Evaluation	passed	
Requirement	1.4 kg	
Conductor type	Type of conductor and conductor cross-section	solid 6 mm²
Evaluation	passed	
Standard	DIN EN 60999 section	8.5 / 04.94
Requirement	≥10 N	
Conductor type	Type of conductor and conductor cross-section	AWG 26/1
	Type of conductor and conductor cross-section	AWG 26/19
Evaluation	passed	
Requirement	≥30 N	
Conductor type	Type of conductor and conductor cross-section	H05V-U0.5
	Type of conductor and conductor cross-section	H05V-K0.5
Evaluation	passed	
Requirement	≥60 N	
Conductor type	Type of conductor and conductor cross-section	H07V-K4
	Type of conductor and conductor cross-section	AWG 12/1
	Type of conductor and conductor cross-section	AWG 12/19
Evaluation	passed	
Requirement Conductor type	≥80 N Type of conductor	H07V-U6
	and conductor cross- section	

Pull-out test





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Technical data

	Evaluation	passed		
Important note				
IPC conformity	recognized standards fulfill decorative prope	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	 Rated current relate Wire end ferrule wi Wire end ferrule wi P on drawing = pito Rated data refer on components are to 	 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 		
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Classifications				
Classifications				
Classifications ETIM 6.0	EC002643	ETIM 7.0	EC002643	
	EC002643 EC002643	ETIM 7.0 ETIM 9.0	EC002643 EC002643	
ETIM 6.0				
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ETIM 6.0 ETIM 8.0 ETIM 10.0	EC002643 EC002643	ETIM 9.0 ECLASS 9.0	EC002643 27-44-04-01	
ETIM 6.0 ETIM 8.0 ETIM 10.0 ECLASS 9.1	EC002643 EC002643 27-44-04-01	ETIM 9.0 ECLASS 9.0 ECLASS 10.0	EC002643 27-44-04-01 27-44-04-01	



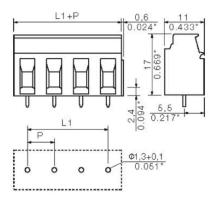
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Drawings

Dimensional drawing



Graph

