

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Product image























PCB terminal with proven clamping yoke connection at 5.00 and 5.08 mm pitch. Conductor outlet direction 90°, 135° and 180°. Suitable for conductor cross-sections up to 2.5 mm².

General ordering data

Version	Printed circuit board terminals, 5.08 mm, Number of poles: 2, 90°, Solder pin length (I): 3.5 mm, tinned, black, Clamping yoke connection, Clamping range, max.: 2.5 mm², Box	
Order No.	<u>1716020000</u>	
Туре	LM 5.08/02/90 3.5SN BK BX	
GTIN (EAN)	4008190365318	
Qty.	500 items	
Product data	IEC: 630 V / 17.5 A / 0.2 - 2.5 mm ² UL: 300 V / 15 A / AWG 24 - AWG 14	
Packaging	Вох	



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Technical data

Approvals

Approvals



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

Dimensions and weights

Depth	10	Depth (inches)	0.3937 inch
Height	17.3 mm	Height (inches)	0.6811 inch
Height of lowest version	13.8 mm	Width	10.71 mm
Width (inches)	0.4217 inch	Net weight	2.46 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 LM	Wire connection method	Clamping yoke connection
Mounting onto the PCB	THT solder connection	Conductor outlet direction	90°
Pitch in mm (P)	5.08 mm	Pitch in inches (P)	0.200 "
Number of poles	2	Pin series quantity	1
Fitted by customer	Yes	Number of rows	1
Max. adjacent poles per row	24	Solder pin length (I)	3.5 mm
Solder pin dimensions	0.95 x 0.8 mm	Solder eyelet hole diameter (D)	1.3 mm
Solder eyelet hole diameter tolerance (I	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.	0.4 Nm	Tightening torque, max.	0.5 Nm
Clamping screw	M 2.5	Stripping length	6 mm
L1 in mm	5.08 mm	L1 in inches	0.200 "
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	Wemid (PA)	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	I
Comparative Tracking Index (CTI)	≥ 600	Insulation resistance	≥ 108 Ω
Moisture Level (MSL)		UL 94 flammability rating	V-0
Contact material	Cu-alloy	Contact surface	tinned
Coating	1-3 µm Ni, 4-6 µm SN	Tinning type	matt
Layer structure of solder connection	13 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 °C
Temperature range, installation, max.	120 °C		





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Conductors	cuitable for	connection
Conductors	suitable toi	r connection

Conductors suitable for conne	ection		
Clamping range, min.	0.2 mm ²		
Clamping range, max.	2.5 mm ²		
Vire connection cross section AWG, nin.	AWG 24		
lire connection cross section AWG, ax.	AWG 14		
olid, min. H05(07) V-U	0.2 mm ²		
olid, max. H05(07) V-U	2.5 mm ²		
exible, min. H05(07) V-K	0.2 mm ²		
exible, max. H05(07) V-K	2.5 mm ²		
. plastic collar ferrule, DIN 46228 pt 4 in.	, 0.25 mm²		
. plastic collar ferrule, DIN 46228 pt 4 ax.	, 1.5 mm²		
. wire end ferrule, DIN 46228 pt 1, in.	0.25 mm ²		
. wire end ferrule, DIN 46228 pt 1, ax.	1.5 mm ²		
ug gauge in accordance with EN 0999 a x b; ø	2.4 mm x 1.5 mm; 1.9mm		
ampable conductor	Cross-section for conductor connection	Туре	fine-wired
		nominal	0.5 mm ²
	wire end ferrule	Stripping length	nominal 8 mm
		Recommended wire- end ferrule	H0,5/12 OR
		Stripping length	nominal 6 mm
		Recommended wire- end ferrule	H0,5/6
	Cross-section for conductor connection	Туре	fine-wired
		nominal	0.75 mm ²
	wire end ferrule	Stripping length	nominal 8 mm
		Recommended wire- end ferrule	H0,75/12 W
		Stripping length	nominal 6 mm
		Recommended wire- end ferrule	H0,75/6
	Cross-section for conductor connection	Туре	fine-wired
		nominal	1 mm ²
	wire end ferrule	Stripping length	nominal 8 mm
		Recommended wire- end ferrule	H1,0/12 GE
		Stripping length	nominal 6 mm
		Recommended wire- end ferrule	H1,0/6
	Cross-section for conductor connection	Туре	fine-wired
		nominal	0.25 mm ²
	wire end ferrule	Stripping length	nominal 8 mm
		Recommended wire- end ferrule	H0,25/10 HBL
		Stripping length	nominal 5 mm
		Recommended wire- end ferrule	H0,25/5
	Cross-section for conductor connection	Туре	fine-wired
		nominal	0.34 mm ²
	wire end ferrule	Stripping length	nominal 8 mm
		Recommended wire-	H0,34/10 TK
		end ferrule	· —





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Rated impulse voltage for surge voltage 4 kV class/ pollution degree III/2

Short-time withstand current resistance 3 x 1s with 120 A

Technical data

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			
tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. number of poles (Tu=20°C)	17.5 A
Rated current, max. number of poles (Tu=20°C)	16 A	Rated current, min. number of poles (Tu=40°C)	17.5 A
Rated current, max. number of poles (Tu=40°C)	14.2 A	Rated voltage for surge voltage class / pollution degree II/2	630 V
Rated voltage for surge voltage class / pollution degree III/2	320 V	Rated voltage for surge voltage class / pollution degree III/3	250 V

Rated data acc. to CSA

Rated impulse voltage for surge voltage 4 kV class/ pollution degree II/2

Rated impulse voltage for surge voltage 4 kV class/ contamination degree III/3

Institute (CSA)	CSA	Certificate No. (CSA)	200039-1815154
Rated voltage (Use group B / CSA)	300 V	Rated voltage (Use group D / CSA)	300 V
Rated current (Use group B / CSA)	18 A	Rated current (Use group D / CSA)	10 A
Wire cross-section, AWG, min.	AWG 24	Wire cross-section, AWG, max.	AWG 14
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

Rated data acc. to UL 1059

Institute (cURus)	CURUS	Certificate No. (cURus)	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)	15 A	Rated current (Use group D / UL 1059)	10 A
Wire cross-section, AWG, min.	AWG 24	Wire cross-section, AWG, max.	AWG 14
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

Packing

Packaging	Box	VPE length	331.00 mm
VPE width	140.00 mm	VPE height	51.00 mm

Type tests

Test: Durability of markings	Standard	DIN EN 60512-1-1 / 01.03	
	Test	mark of origin, type identification, pitch, type of material, approval marking UL, approval marking CSA, durability	
	Evaluation	available	
Test: Clampable cross section	Standard	DIN EN 60999-1 section 7 and 9.1 / 12.00, DIN EN 60947-1 section 8.2.4.5.1 / 12.02	
	Conductor type	Type of conductor solid 0.2 mm ² and conductor cross-section	
		Type of conductor stranded 0.2 mm ² and conductor cross-section	
		Type of conductor stranded 1.5 mm ² and conductor cross-section	

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Technical data

		Type of conductor solid 2.5 mm ² and conductor cross-section		
		Type of conductor AWG 24/1 and conductor cross-section		
		Type of conductor AWG 24/19 and conductor cross-section		
		Type of conductor AWG 14/1 and conductor cross-section		
		Type of conductor AWG 14/19 and conductor cross-section		
	Evaluation	passed		
st for damage to and accidental	Standard	DIN EN 60999-1 section 9.4 / 12.00		
osening of conductors	Requirement	0.2 kg		
•	Conductor type	Type of conductor stranded 0.25 mm ² and conductor cross-section		
		Type of conductor AWG 24/1 and conductor cross-section		
		Type of conductor AWG 24/19 and conductor cross-section		
	Evaluation	passed		
	Requirement	0.3 kg		
	Conductor type	Type of conductor solid 0.5 mm ² and conductor cross-section		
	Evaluation	passed		
	Requirement	0.4 kg		
	Conductor type	Type of conductor stranded 1.5 mm ² and conductor cross-section		
	Evaluation	passed		
	Requirement	0.7 kg		
	Conductor type	Type of conductor solid 2.5 mm ² and conductor cross-section		
		Type of conductor AWG 14/1 and conductor cross-section		
		Type of conductor AWG 14/19 and conductor cross-section		
	Evaluation	passed		
Pull-out test	Standard	DIN EN 60999-1 section 9.5 / 12.00		
	Requirement	≥10 N		
	Conductor type	Type of conductor stranded 0.25 mm ² and conductor cross-section		
		Type of conductor AWG 24/1 and conductor cross-section		
		Type of conductor AWG 24/19 and conductor cross-section		
	Evaluation	passed		
	Requirement	≥20 N		





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Conductor type	Type of conductor and conductor cross-section	H05V-U0.5	
Evaluation	passed		
Requirement	≥40 N		
Conductor type	Type of conductor and conductor cross-section	H07V-K1.5	
Evaluation	passed		
Requirement	≥50 N		
Conductor type	Type of conductor and conductor cross-section	H07V-U2.5	
	Type of conductor and conductor cross-section	AWG 14/1	
	Type of conductor and conductor cross-section	AWG 14/19	
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

- 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
- The data given under CSA relates to a cUL approval E60693
- 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.
- It is necessary to hold the insulating body of the one or two pole terminal when tightening the screw
- Long term storage of the product with average temperature of 50 $^{\circ}\text{C}$ and maximum humidity 70%, 36 months

Classifications

ETIM 6.0 EC002643 ETIM 7.0 ETIM 8.0 EC002643 ETIM 9.0 ETIM 10.0 EC002643 ECLASS 9.0 ECLASS 9.1 27-44-04-01 ECLASS 10.0 ECLASS 11.0 27-46-01-01 ECLASS 12.0 ECLASS 13.0 27-46-01-01 ECLASS 14.0	
ETIM 10.0 EC002643 ECLASS 9.0 ECLASS 9.1 27-44-04-01 ECLASS 10.0 ECLASS 11.0 27-46-01-01 ECLASS 12.0	EC002643
ECLASS 9.1 27-44-04-01 ECLASS 10.0 ECLASS 11.0 27-46-01-01 ECLASS 12.0	EC002643
ECLASS 11.0 27-46-01-01 ECLASS 12.0	27-44-04-01
	27-44-04-01
FCLASS 13.0 27-46-01-01 FCLASS 14.0	27-46-01-01
27.100.100.11.0	27-46-01-01
ECLASS 15.0 27-46-01-01	



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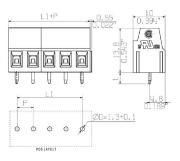
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Drawings

Product image



Dimensional drawing



Graph

