

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**

ber of pole	cuit board terminals, 5.00 mm, Num- ss: 3, 90°, Solder pin length (I): 3.5 mm, ck, Clamping yoke connection, Clamp-
ber of pole	es: 3, 90°, Solder pin length (I): 3.5 mm,
	max. : 2.5 mm², Box
Order No. <u>17152600</u>	000
Type LM 5.00/0	03/90 3.5SN BK BX
GTIN (EAN) 40081903	365141
Oty. 120 items	
	/ / 17.5 A / 0.2 - 2.5 mm <sup>2</sup> / 15 A / AWG 24 - AWG 14
Packaging Box	



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# **Technical data**

## **Approvals**

Approvals



ROHS	Conform	
UL File Number Search	<b>UL Website</b>	
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	15.55 mm
Width (inches)	0.6122 inch	Net weight	3.61 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)	5.00 mm	Pitch in inches (P)	0.197 "
Number of poles	3	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	O)+ 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	10.00 mm	L1 in inches	0.394 "
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	
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		

Creation date 02.12.2025 08:22:29 MEZ



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<b>Conductors</b>	suitable for	connection
Colludetols	Sultable IOI	COHILECTION

Conductors suitable for conn	ection		
Clamping range, min.	0.2 mm <sup>2</sup>		
Clamping range, max.	2.5 mm <sup>2</sup>		
Nire connection cross section AWG,	AWG 24		
nin.			
Wire connection cross section AWG, max.	AWG 14		
Solid, min. H05(07) V-U	0.2 mm <sup>2</sup>		
Solid, max. H05(07) V-U	2.5 mm <sup>2</sup>		
Flexible, min. H05(07) V-K	0.2 mm <sup>2</sup>		
Flexible, max. H05(07) V-K	2.5 mm <sup>2</sup>		
v. plastic collar ferrule, DIN 46228 pt <sup>z</sup> nin.	1, 0.25 mm <sup>2</sup>		
v. plastic collar ferrule, DIN 46228 pt <sup>z</sup> nax.	l, 1.5 mm²		
v. wire end ferrule, DIN 46228 pt 1, nin.	0.25 mm <sup>2</sup>		
v. wire end ferrule, DIN 46228 pt 1, max.	1.5 mm <sup>2</sup>		
Plug gauge in accordance with EN 60999 a x b; ø	2.4 mm x 1.5 mm; 1.9mm		
Clampable conductor	Cross-section for conductor connection	Туре	fine-wired
-		nominal	0.5 mm <sup>2</sup>
	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	Туре	fine-wired
		nominal	0.75 mm <sup>2</sup>
	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	Type	fine-wired
		nominal	1 mm <sup>2</sup>
	wire end ferrule	Stripping length	nominal 8 mm
		Recommended wire- end ferrule	H1,0/12 GE
		Stripping length	nominal 6 mm
		Recommended wire-	H1,0/6
		end ferrule	
	Cross-section for conductor connection	Туре	fine-wired
		nominal	0.25 mm <sup>2</sup>
	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 <sup>2</sup>
	wire end ferrule	Stripping length	nominal 8 mm
		Recommended wire-	H0,34/10 TK
		end ferrule	





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

### Rated data acc. to CSA

class/ contamination degree III/3

Rated impulse voltage for surge voltage 4 kV

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	245.00 mm
VPE width	167.00 mm	VPE height	83.00 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 <sup>2</sup> and conductor cross-section	
		Type of conductor stranded 0.2 mm <sup>2</sup> and conductor cross-section	
		Type of conductor stranded 1.5 mm <sup>2</sup> and conductor cross-section	

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# **Technical data**

		Type of conductor solid 2.5 mm <sup>2</sup> 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
Test for damage to and accidental	Standard	DIN EN 60999-1 section 9.4 / 12.00
sening of conductors	Requirement	0.2 kg
	Conductor type	Type of conductor stranded 0.25 mm <sup>2</sup> 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 <sup>2</sup> and conductor cross-section
	Evaluation	passed
	Requirement	0.4 kg
	Conductor type	Type of conductor stranded 1.5 mm <sup>2</sup> and conductor cross-section
	Evaluation	passed
	Requirement	0.7 kg
	Conductor type	Type of conductor solid 2.5 mm <sup>2</sup> 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
Il-out test	Standard	DIN EN 60999-1 section 9.5 / 12.00
	Requirement	≥10 N
	Conductor type	Type of conductor stranded 0.25 mm <sup>2</sup> 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
	Requirement	≥40 N





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

## Classifications

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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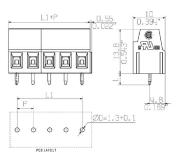
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# **Drawings**

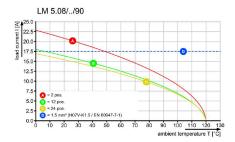
## **Product image**



# **Dimensional drawing**



### Graph



Derating curve valid for 5.00 & 5.08 pitch