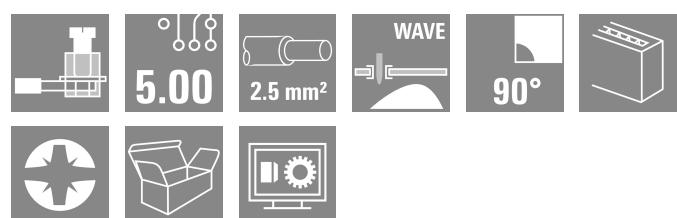
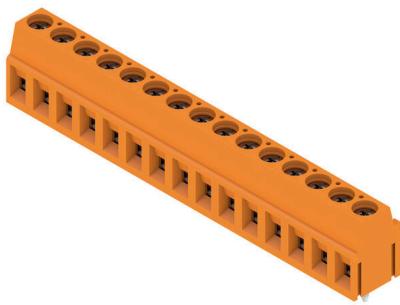


**LM 5.00/15/90 3.5SN OR BX**

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergsstraße 26  
D-32758 Detmold  
Germany

[www.weidmueller.com](http://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 mm<sup>2</sup>.

**General ordering data**

Version	Printed circuit board terminals, 5.00 mm, Number of poles: 15, 90°, Solder pin length (l): 3.5 mm, tinned, orange, Clamping yoke connection, Clamping range, max. : 2.5 mm <sup>2</sup> , Box
Order No.	<a href="#">1234090000</a>
Type	LM 5.00/15/90 3.5SN OR BX
GTIN (EAN)	4050118018301
Qty.	24 items
Product data	IEC: 630 V / 17.5 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 15 A / AWG 24 - AWG 14
Packaging	Box

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## Technical data

## Approvals

## Approvals



ROHS	Conform
UL File Number Search	<a href="#">UL Website</a>
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	75.55 mm
Width (inches)	2.9744 inch	Net weight	18 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	15	Pin series quantity	1
Fitted by customer	Yes	Number of rows	1
Max. adjacent poles per row	24	Solder pin length (l)	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 (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	70.00 mm	L1 in inches	2.756 "
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	orange
Colour chart (similar)	RAL 2000	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	1...3 µm Ni / 4...6 µm Sn matt	Storage temperature, min.	-40 °C
Storage temperature, max.	70 °C	Operating temperature, min.	-50 °C
Operating temperature, max.	120	Temperature range, installation, min.	-25 °C
Temperature range, installation, max.	120 °C		

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## Technical data

## Conductors suitable for connection

Clamping range, min.	0.2 mm <sup>2</sup>
Clamping range, max.	2.5 mm <sup>2</sup>
Wire connection cross section AWG, min.	AWG 24
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>
w. plastic collar ferrule, DIN 46228 pt 4, 0.25 mm <sup>2</sup> min.	
w. plastic collar ferrule, DIN 46228 pt 4, 1.5 mm <sup>2</sup> max.	
w. wire end ferrule, DIN 46228 pt 1, min.	0.25 mm <sup>2</sup>
w. 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
	Type fine-wired
	nominal 0.5 mm <sup>2</sup>
	wire end ferrule
	Stripping length nominal 8 mm
	Recommended wire-end ferrule <a href="#">H0,5/12 OR</a>
	Stripping length nominal 6 mm
	Recommended wire-end ferrule <a href="#">H0,5/6</a>
	Cross-section for conductor connection
	Type fine-wired
Clampable conductor	nominal 0.75 mm <sup>2</sup>
	wire end ferrule
	Stripping length nominal 8 mm
	Recommended wire-end ferrule <a href="#">H0,75/12 W</a>
	Stripping length nominal 6 mm
	Recommended wire-end ferrule <a href="#">H0,75/6</a>
	Cross-section for conductor connection
	Type fine-wired
	nominal 1 mm <sup>2</sup>
	wire end ferrule
Clampable conductor	Stripping length nominal 8 mm
	Recommended wire-end ferrule <a href="#">H1,0/12 GE</a>
	Stripping length nominal 6 mm
	Recommended wire-end ferrule <a href="#">H1,0/6</a>
	Cross-section for conductor connection
	Type fine-wired
	nominal 0.25 mm <sup>2</sup>
	wire end ferrule
	Stripping length nominal 8 mm
	Recommended wire-end ferrule <a href="#">H0,25/10 HBL</a>
Clampable conductor	Stripping length nominal 5 mm
	Recommended wire-end ferrule <a href="#">H0,25/5</a>
	Cross-section for conductor connection
	Type fine-wired
	nominal 0.34 mm <sup>2</sup>
	wire end ferrule
	Stripping length nominal 8 mm
	Recommended wire-end ferrule <a href="#">H0,34/10 TK</a>

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## 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)		
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## 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 impulse voltage for surge voltage class/ contamination degree III/3	4 kV	Short-time withstand current resistance	3 x 1s with 120 A

## Rated data acc. to CSA

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	275.00 mm
VPE width	150.00 mm	VPE height	105.00 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

Test for damage to and accidental loosening of conductors	Type of conductor and conductor cross-section	solid 2.5 mm <sup>2</sup>
	Type of conductor and conductor cross-section	AWG 24/1
	Type of conductor and conductor cross-section	AWG 24/19
	Type of conductor and conductor cross-section	AWG 14/1
	Type of conductor and conductor cross-section	AWG 14/19
	Evaluation	passed
	Standard	DIN EN 60999-1 section 9.4 / 12.00
	Requirement	0.2 kg
	Conductor type	Type of conductor and conductor cross-section
		stranded 0.25 mm <sup>2</sup>
Pull-out test	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 <sup>2</sup>
	Evaluation	passed
	Requirement	0.4 kg
	Conductor type	Type of conductor and conductor cross-section
		stranded 1.5 mm <sup>2</sup>
	Evaluation	passed
	Requirement	0.7 kg
	Conductor type	Type of conductor and conductor cross-section
		solid 2.5 mm <sup>2</sup>
	Type of conductor and conductor cross-section	AWG 14/1
	Type of conductor and conductor cross-section	AWG 14/19
	Evaluation	passed
	Standard	DIN EN 60999-1 section 9.5 / 12.00
	Requirement	≥10 N
	Conductor type	Type of conductor and conductor cross-section
		stranded 0.25 mm <sup>2</sup>
	Type of conductor and conductor cross-section	AWG 24/1
	Type of conductor and conductor cross-section	AWG 24/19
	Evaluation	passed
	Requirement	≥20 N
	Requirement	≥40 N

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## Technical data

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
- 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

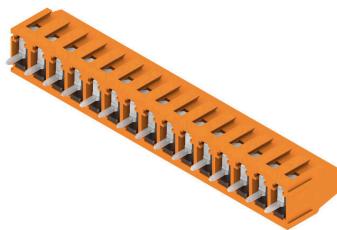
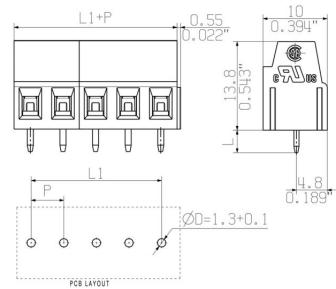
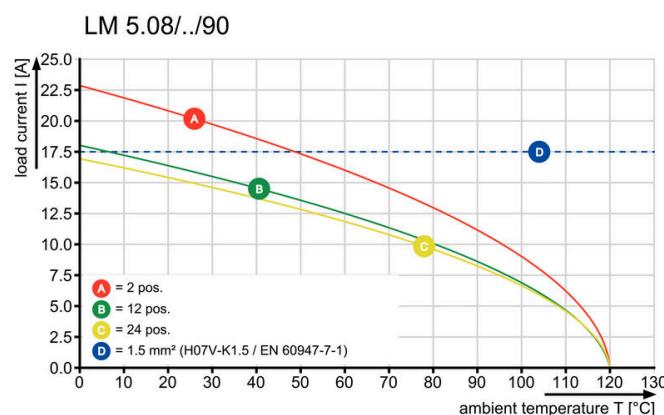
## Classifications

ETIM 8.0	EC002643	ETIM 9.0	EC002643
ETIM 10.0	EC002643	ECLASS 14.0	27-46-01-01
ECLASS 15.0	27-46-01-01		

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**Drawings****Product image****Dimensional drawing****Graph**

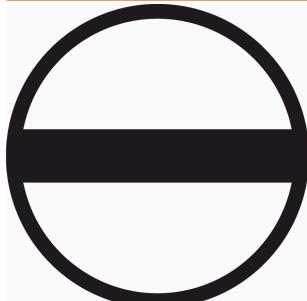
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## Accessories

## Slotted screwdriver

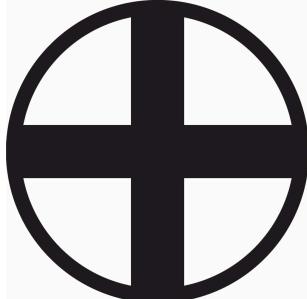


VDE insulated slot-head screwdriver, SDI DIN 7437, ISO 2380/2, drive output acc. to DIN 5264, ISO 2380/1. SoftFinish grip

## General ordering data

Type	SDIS 0.6X3.5X100	Version
Order No.	<a href="#">2749810000</a>	Screwdriver, Blade width (B): 3.5 mm, Blade length: 100 mm, Blade
GTIN (EAN)	4050118897012	thickness (A): 0.6 mm
Qty.	1 ST	
Type	SDS 0.6X3.5X100	Version
Order No.	<a href="#">2749340000</a>	Screwdriver, Blade width (B): 3.5 mm, Blade length: 100 mm, Blade
GTIN (EAN)	4050118895568	thickness (A): 0.6 mm
Qty.	1 ST	

## Crosshead screwdriver Phillips



Crosshead screwdriver, Phillips, SDK PH DIN 5262, ISO 8764/2-PH, output to ISO 8764-PH, ChromTop tip, SoftFinish grip

## General ordering data

Type	SDK PH0 X 60	Version
Order No.	<a href="#">2749400000</a>	Screwdriver, Blade width (B): 3 mm, 60 mm, Blade thickness (A): 0
GTIN (EAN)	4050118895629	
Qty.	1 ST	