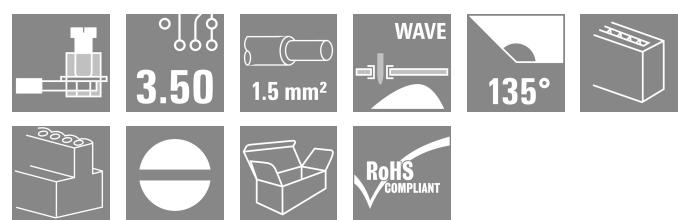


LM 3.50/02/135 4.5SN BK BX

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

www.weidmueller.com

Product image



Small, compact PCB terminal with proven clamping yoke connection and 3.5 mm pitch. Conductor outlet direction 90° and 135°. Suitable for conductor cross-sections up to 1.5 mm².

General ordering data

Version	Printed circuit board terminals, 3.50 mm, Number of poles: 2, 135°, Solder pin length (l): 4.5 mm, tinned, black, Clamping yoke connection, Clamping range, max. : 2.08 mm ² , Box
Order No.	1715010000
Type	LM 3.50/02/135 4.5SN BK BX
GTIN (EAN)	4008190337346
Qty.	246 items
Product data	IEC: 320 V / 16 A / 0.5 - 1.5 mm ² UL: 300 V / 10 A / AWG 28 - AWG 14
Packaging	Box

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Technical data

Approvals

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate No. (UR)	E60693

Dimensions and weights

Depth	12.7 mm	Depth (inches)	0.5 inch
Height	17.2 mm	Height (inches)	0.6772 inch
Height of lowest version	12.7 mm	Width	7.6 mm
Width (inches)	0.2992 inch	Net weight	1.24 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	135°
Pitch in mm (P)	3.50 mm	Pitch in inches (P)	0.138 "
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 (l)	4.5 mm
Solder pin dimensions	1.0 x 0.6 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	0.4 x 2.5	Screwdriver blade standard	DIN 5264
Tightening torque, min.	0.2 Nm	Tightening torque, max.	0.25 Nm
Clamping screw	M 2	Stripping length	5 mm
L1 in mm	3.50 mm	L1 in inches	0.138 "
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	3.60 mΩ

Material data

Insulating material	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-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	1.5...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.	100 °C
Temperature range, installation, min.	-25 °C	Temperature range, installation, max.	100 °C

Conductors suitable for connection

Clamping range, min.	0.08 mm ²
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Clamping range, max.	2.08 mm ²												
Wire connection cross section AWG, min.	AWG 28												
Wire connection cross section AWG, max.	AWG 14												
Solid, min. H05(07) V-U	0.5 mm ²												
Solid, max. H05(07) V-U	1.5 mm ²												
Flexible, min. H05(07) V-K	0.5 mm ²												
Flexible, max. H05(07) V-K	1.5 mm ²												
w. plastic collar ferrule, DIN 46228 pt 4, 0.5 mm ² min.													
w. plastic collar ferrule, DIN 46228 pt 4, 0.75 mm ² max.													
Plug gauge in accordance with EN 60999 a x b; ø	2.4 mm x 1.5 mm												
Clampable conductor	<table border="1"> <tr> <td>Cross-section for conductor connection</td> <td>Type</td> <td>fine-wired</td> </tr> <tr> <td>nominal</td> <td>0.75 mm²</td> <td></td> </tr> <tr> <td>wire end ferrule</td> <td>Stripping length</td> <td>nominal 8 mm</td> </tr> <tr> <td></td> <td>Recommended wire-end ferrule</td> <td>H0.75/12 W</td> </tr> </table>	Cross-section for conductor connection	Type	fine-wired	nominal	0.75 mm ²		wire end ferrule	Stripping length	nominal 8 mm		Recommended wire-end ferrule	H0.75/12 W
Cross-section for conductor connection	Type	fine-wired											
nominal	0.75 mm ²												
wire end ferrule	Stripping length	nominal 8 mm											
	Recommended wire-end ferrule	H0.75/12 W											
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)	16 A
Rated current, max. number of poles (Tu=20°C)	12 A	Rated current, min. number of poles (Tu=40°C)	14 A
Rated current, max. number of poles (Tu=40°C)	10 A	Rated voltage for surge voltage class / pollution degree II/2	320 V
Rated voltage for surge voltage class / pollution degree III/2	160 V	Rated voltage for surge voltage class / pollution degree III/2	160 V
Rated impulse voltage for surge voltage class/ pollution degree II/2	2.5 kV	Rated impulse voltage for surge voltage class/ pollution degree III/2	2.5 kV
Rated impulse voltage for surge voltage class/ contamination degree III/3	2.5 kV	Short-time withstand current resistance	3 x 1s with 72 A

Rated data acc. to CSA

Institute (CSA)	CSA	Certificate No. (CSA)	154685-1202192
Rated voltage (Use group B / CSA)	300 V	Rated voltage (Use group D / CSA)	300 V
Rated current (Use group B / CSA)	10 A	Rated current (Use group D / CSA)	10 A
Wire cross-section, AWG, min.	AWG 28	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 (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)	10 A	Rated current (Use group D / UL 1059)	10 A
Wire cross-section, AWG, min.	AWG 28	Wire cross-section, AWG, max.	AWG 14
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

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Technical data

Packing

Packaging	Box	VPE length	353.00 mm
VPE width	136.00 mm	VPE height	25.00 mm

Type tests

Test: Durability of markings	Standard	EN 60947-1 section 5.1 / 91																
	Test	type identification, mark of origin, type of material																
	Evaluation	available																
Test: Clampable cross section	Standard	DIN EN 60999 section 6 / 04.94, EN 60 947-1 section 8.2.4.5.1 / 03.91																
	Conductor type	<table border="1"> <tr><td>Type of conductor</td><td>solid 0.08 mm²</td></tr> <tr><td>Type of conductor</td><td>stranded 0.08 mm²</td></tr> <tr><td>Type of conductor</td><td>solid 1.5 mm²</td></tr> <tr><td>Type of conductor</td><td>stranded 1.5 mm²</td></tr> <tr><td>Type of conductor</td><td>AWG 28/1</td></tr> <tr><td>Type of conductor</td><td>AWG 28/19</td></tr> <tr><td>Type of conductor</td><td>AWG 16/1</td></tr> <tr><td>Type of conductor</td><td>AWG 16/19</td></tr> </table>	Type of conductor	solid 0.08 mm ²	Type of conductor	stranded 0.08 mm ²	Type of conductor	solid 1.5 mm ²	Type of conductor	stranded 1.5 mm ²	Type of conductor	AWG 28/1	Type of conductor	AWG 28/19	Type of conductor	AWG 16/1	Type of conductor	AWG 16/19
Type of conductor	solid 0.08 mm ²																	
Type of conductor	stranded 0.08 mm ²																	
Type of conductor	solid 1.5 mm ²																	
Type of conductor	stranded 1.5 mm ²																	
Type of conductor	AWG 28/1																	
Type of conductor	AWG 28/19																	
Type of conductor	AWG 16/1																	
Type of conductor	AWG 16/19																	
	Evaluation	passed																
Test for damage to and accidental loosening of conductors	Standard	DIN EN 60999 section 8.4 / 04.94																
	Requirement	0.2 kg																
	Conductor type	<table border="1"> <tr><td>Type of conductor</td><td>AWG 28/1</td></tr> <tr><td>Type of conductor</td><td>AWG 28/7</td></tr> </table>	Type of conductor	AWG 28/1	Type of conductor	AWG 28/7												
Type of conductor	AWG 28/1																	
Type of conductor	AWG 28/7																	
	Evaluation	passed																
	Requirement	0.3 kg																
	Conductor type	<table border="1"> <tr><td>Type of conductor</td><td>solid 0.5 mm²</td></tr> <tr><td>Type of conductor</td><td>stranded 0.5 mm²</td></tr> </table>	Type of conductor	solid 0.5 mm ²	Type of conductor	stranded 0.5 mm ²												
Type of conductor	solid 0.5 mm ²																	
Type of conductor	stranded 0.5 mm ²																	
	Evaluation	passed																
	Requirement	0.4 kg																
	Conductor type	<table border="1"> <tr><td>Type of conductor</td><td>solid 1.5 mm²</td></tr> <tr><td>Type of conductor</td><td>stranded 1.5 mm²</td></tr> </table>	Type of conductor	solid 1.5 mm ²	Type of conductor	stranded 1.5 mm ²												
Type of conductor	solid 1.5 mm ²																	
Type of conductor	stranded 1.5 mm ²																	

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Technical data

Pull-out test	Evaluation	Type of conductor and conductor cross-section	AWG 16/7
		Type of conductor and conductor cross-section	AWG 16/19
	Evaluation	passed	
	Standard	DIN EN 60999 section 8.4 / 04.94	
	Requirement	≥ 5 N	
	Conductor type	Type of conductor and conductor cross-section	AWG 28/1
		Type of conductor and conductor cross-section	AWG 28/7
	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	≥ 40 N	
	Conductor type	Type of conductor and conductor cross-section	H07V-U1.5
		Type of conductor and conductor cross-section	H07V-K1.5
	Type of conductor and conductor cross-section	Type of conductor and conductor cross-section	AWG 16/7
		Type of conductor and conductor cross-section	AWG 16/19
	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	<ul style="list-style-type: none"> Additional variants on request Rated current related to rated cross-section & min. No. of poles. Max. outer diameter of the conductor: 2.9 mm 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. 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 °C and maximum humidity 70%, 36 months

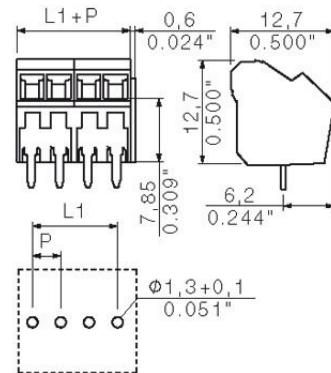
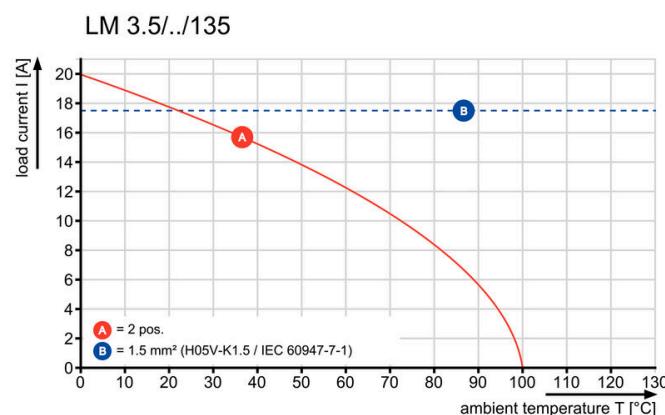
Classifications

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 0.4X2.5X75	Version
Order No.	9008370000	Screwdriver, Screwdriver
GTIN (EAN)	4032248056330	
Qty.	1 ST	
Type	SDS 0.4X2.5X75	Version
Order No.	9009030000	Screwdriver, Screwdriver
GTIN (EAN)	4032248266944	
Qty.	1 ST	