

LM2NZF 5.08/04/135 3.5SN BK BX

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

www.weidmueller.com

Product image



Similar to illustration

The high-performance device interface with a high connection density, for standard 2.5mm² cross-section wires. Multi-tier PCB terminal in 5.08 mm pitch, with the maintenance-free tension clamp connection in 135° outlet direction.

Rated data:

- 15A / 630V (IEC) or 10A / 300V (UL)
- 0.20 - 2.5mm² (IEC) / 26 - 14 AWG (UL)
- Flammability class according to UL 94: V2

Application benefits:

- Simple change of connection method - layout is compatible with multi-tier screw terminals.

General ordering data

Version	Printed circuit board terminals, 5.08 mm, Number of poles: 4, 135°, Solder pin length (l): 3.5 mm, black, Tension-clamp connection, Clamping range, max.: 2.5 mm ² , Box
Order No.	1437910000
Type	LM2NZF 5.08/04/135 3.5SN BK BX
GTIN (EAN)	4050118243468
Qty.	50 items
Product data	IEC: 630 V / 15 A / 0.2 - 2.5 mm ² UL: 300 V / 10 A / AWG 24 - AWG 14
Packaging	Box

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Technical data

Approvals

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate No. (UR)	E175455

Dimensions and weights

Depth	24.05 mm	Depth (inches)	0.9468 inch
Height	29.1 mm	Height (inches)	1.1457 inch
Height of lowest version	25.6 mm	Width	10.86 mm
Width (inches)	0.4276 inch	Net weight	5.36 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 LMZF	Wire connection method	Tension-clamp connection
Mounting onto the PCB	THT solder connection	Conductor outlet direction	135°
Pitch in mm (P)	5.08 mm	Pitch in inches (P)	0.200 "
Number of poles	4	Pin series quantity	2
Fitted by customer	No	Solder pin length (l)	3.5 mm
Solder pin dimensions	0.7 x 1.0 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-A
Stripping length	7.5 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	2.10 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-0	Contact material	Cu-alloy
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.	2.5 mm ²
Wire connection cross section AWG, min.	AWG 24
Wire connection cross section AWG, max.	AWG 14

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Solid, min. H05(07) V-U	0.2 mm ²														
Solid, max. H05(07) V-U	2.5 mm ²														
Flexible, min. H05(07) V-K	0.2 mm ²														
Flexible, max. H05(07) V-K	1.5 mm ²														
w. plastic collar ferrule, DIN 46228 pt 4, 0.25 mm ² min.															
w. plastic collar ferrule, DIN 46228 pt 4, 1.5 mm ² max.															
w. wire end ferrule, DIN 46228 pt 1, min.	0.25 mm ²														
w. wire end ferrule, DIN 46228 pt 1, max.	1.5 mm ²														
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 rowspan="3">Cross-section for conductor connection</td> <td>Type</td> <td colspan="2">fine-wired</td> </tr> <tr> <td>nominal</td> <td colspan="2">1.5 mm²</td> </tr> <tr> <td>Stripping length</td> <td>nominal</td> <td>7 mm</td> </tr> <tr> <td rowspan="2">wire end ferrule</td> <td>Recommended wire-end ferrule</td> <td colspan="2">H1.5/7</td> </tr> </table>	Cross-section for conductor connection	Type	fine-wired		nominal	1.5 mm ²		Stripping length	nominal	7 mm	wire end ferrule	Recommended wire-end ferrule	H1.5/7	
Cross-section for conductor connection	Type		fine-wired												
	nominal		1.5 mm ²												
	Stripping length	nominal	7 mm												
wire end ferrule	Recommended wire-end ferrule	H1.5/7													
	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)	15 A
Rated current, max. number of poles (Tu=20°C)	12 A	Rated current, min. number of poles (Tu=40°C)	13 A
Rated current, max. number of poles (Tu=40°C)	10 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		

Rated data acc. to CSA

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 24	Wire cross-section, AWG, max.	AWG 14

Rated data acc. to UL 1059

Institute (UR)	UR	Certificate No. (UR)	E175455
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 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	141.00 mm
VPE width	105.00 mm	VPE height	40.00 mm

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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"> • 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

Dimensional drawing



Graph

