

LM3RZF 5.08/36/135 3.5SN OR BX

Weidmüller Interfaces GmbH & Co. KG

Postfach 3030

32760 Detmold

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Product image



Similar to illustration

The high-performance device interface with a high connection density, for standard 2.5mm² cross-section wires.

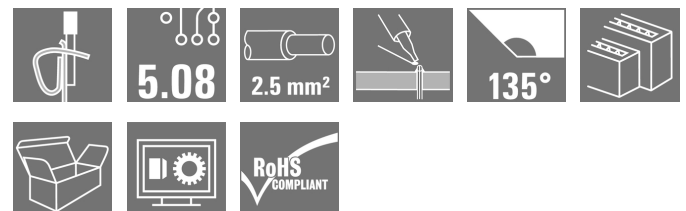
Multi-tier PCB terminal in 5.08 mm pitch, with the maintenance-free tension clamp connection in 135° outlet direction.

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: 36, 135°, Solder pin length (l): 3.5 mm, orange, Tension-clamp connection, Clamping range, max.: 2.5 mm ² , Box |
| Order No. | 1764990000 |
| Type | LM3RZF 5.08/36/135 3.5SN OR BX |
| GTIN (EAN) | 4032248102921 |
| Qty. | 10 pc(s). |
| 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

Dimensions and weights

| | | | |
|--------------------------|------------|-----------------|------------|
| Depth | 32.2 mm | Depth (inches) | 1.268 inch |
| Height | 40.1 mm | Height (inches) | 1.579 inch |
| Height of lowest version | 36.6 mm | Width | 61.66 mm |
| Width (inches) | 2.428 inch | Net weight | 54.9 g |

Temperatures

| | | | |
|-----------------------------|--------|-----------------------------|--------|
| Operating temperature, min. | -50 °C | Operating temperature, max. | 100 °C |
|-----------------------------|--------|-----------------------------|--------|

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) | 0.2 inch |
| Number of poles | 36 | Pin series quantity | 3 |
| Fitted by customer | No | Number of rows | 3 |
| 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 | 55.88 mm | L1 in inches | 2.2 inch |
| 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 | orange |
| Colour chart (similar) | RAL 2000 | Insulating material group | I |
| Comparative Tracking Index (CTI) | ≥ 600 | UL 94 flammability rating | V-0 |
| 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 |
| 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, min. | 0.25 mm ² |
| w. plastic collar ferrule, DIN 46228 pt 4, max. | 1.5 mm ² |
| 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 |

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Stripping length nominal 7 mm

Recommended wire-end ferrule H1.5/7

Technical data

Plug gauge in accordance with EN 60999 a x b; ø 2.4 mm x 1.5 mm

Clampable conductor

Cross-section for conductor connection

wire end ferrule

Type fine-wired

nominal 1.5 mm²

Stripping length nominal 7 mm

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, max. number of poles (Tu=20°C)

12 A

Rated current, max. number of poles (Tu=40°C)

10 A

Rated voltage for surge voltage class / pollution degree III/2

320 V

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

4 kV

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

4 kV

Rated current, min. number of poles (Tu=20°C)

15 A

Rated current, min. number of poles (Tu=40°C)

13 A

Rated voltage for surge voltage class / pollution degree II/2

630 V

Rated voltage for surge voltage class / pollution degree III/3

250 V

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

4 kV

Rated data acc. to CSA

Institute (CSA)



Certificate No. (CSA)

200039-1815154

Rated voltage (Use group B / CSA)

300 V

Rated current (Use group B / CSA)

10 A

Wire cross-section, AWG, min.

AWG 24

Reference to approval values

Specifications are maximum values, details - see approval certificate.

Rated voltage (Use group D / CSA)

300 V

Rated current (Use group D / CSA)

10 A

Wire cross-section, AWG, max.

AWG 14

Rated data acc. to UL 1059

Rated voltage (Use group B / UL 1059)

300 V

Rated current (Use group B / UL 1059)

10 A

Wire cross-section, AWG, min.

AWG 24

Rated voltage (Use group D / UL 1059)

300 V

Rated current (Use group D / UL 1059)

10 A

Wire cross-section, AWG, max.

AWG 14

Packing

Packaging

Box

VPE length

50 mm

VPE width

95 mm

VPE height

175 mm

Classifications

ETIM 6.0

EC002643

ETIM 7.0

EC002643

ETIM 8.0

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

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Technical data

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 average humidity 70%, 36 months |

Approvals

Approvals



ROHS

Conform

Downloads

| | |
|---|---|
| Approval/Certificate/Document of Conformity | Declaration of the Manufacturer |
| Engineering Data | CAD data – STEP |
| Engineering Data | WSCAD |
| Catalogues | Catalogues in PDF-format |
| Brochures | FL DRIVES EN FL ANALO.SIGN.CONV. EN MB DEVICE MANUF. EN FL DRIVES DE FL BUILDING SAFETY EN FL APPL LED LIGHTING EN FLIndustr.CONTROLS EN FL MACHINE SAFETY EN FL HEATING ELECTR EN FL APPL INVERTER EN FL_BASE_STATION_EN FL ELEVATOR EN FL POWER SUPPLY EN FL 72H SAMPLE SER EN PO OMNIMATE EN PO OMNIMATE EN |

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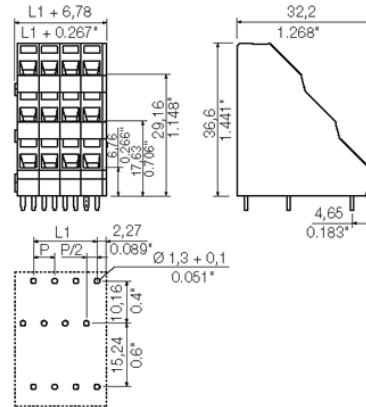
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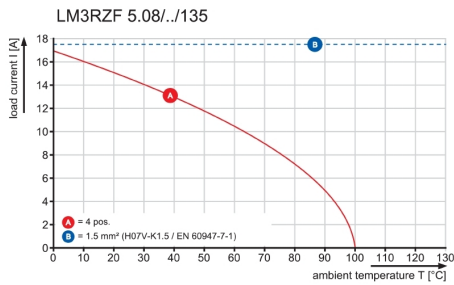
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Drawings

Dimensional drawing info@weidmueller.com



Graph



Recommended wave soldering profiles

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Single Wave:



Double Wave:



Wave soldering profiles

Wired connection elements should be processed in accordance with the DIN EN 61760-1 standard. We have included two recommendations for practical wave soldering profiles, with which Weidmüller PCB terminals and connectors are qualified.

When choosing a suitable profile for your application, the following factors also need to be considered:

- PCB thickness
- Proportion of Cu in the layers
- Single/double-sided assembly
- Product range
- Heating and cooling rates

The single and double wave profiles each indicate the recommended operating range, including the maximum soldering temperature of 260°C. In practice, the maximum soldering temperature is quite often well below the above maximum profile.