

**Z-series
ZDU 6/3AN**

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
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Fon: +49 5231 14-0
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Terminal blocks in tension clamp system and the Z Series are specially customised to the customers' requirements. Less space, spacious labelling area, integrated test point, cross-connection functionality within the Z Series and another family of terminals by Weidmüller. Z-Series terminals have a large clamping range and one or two cross-connection slots. Plug-in standard cross-connections enable potentials to be distributed over any number of terminals.

General ordering data

| | |
|------------|---|
| Type | ZDU 6/3AN |
| Order No. | 7907410000 |
| Version | Z-series, Feed-through terminal, Rated cross-section: 6 mm ² , Tension clamp connection, Wemid, Dark Beige |
| GTIN (EAN) | 4032248422289 |
| Qty. | 50 pc(s). |

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Technical data
Dimensions and weights

| | | | |
|------------|---------|--------------------------|---------|
| Length | 90 mm | Width | 8.1 mm |
| Height | 45 mm | Height of lowest version | 45.5 mm |
| Net weight | 26.89 g | | |

Temperatures

| | | | |
|----------------------------------|--------|----------------------------------|--------|
| Operating temperature | | Storage temperature | |
| Continuous operating temp., min. | -50 °C | Continuous operating temp., max. | 120 °C |

Rated data IECEx/ATEX

| | | | |
|--------------------------------|---|---------------------------|--------------------------|
| Certificate No. (ATEX) | KEMA00ATEX2 107U | ATEX certificate | KEMA00ATEX2 107U_d.pdf |
| ATEX certificate | KEMA00ATEX2 107U_e.pdf | IEC Ex certificate | IECEXULD05.0009U_e.pdf |
| Max. voltage (ATEX) | 550 V | Current (ATEX) | 36 A |
| Wire cross section max. (ATEX) | 6 mm ² | Voltage, cross-connection | CrossConnectionGuide.pdf |
| Operating temperature range | For operating temperature range see EC Design Test Certificate / IEC Ex-Certificate of Conformity | Marking EN 60079-7 | |
| Marking ATEX Directive 94/9/EC | II 2 G D | | Ex e II |

Additional technical data

| | | | |
|--------------------------|--|-----------------------------|---------|
| Explosion-tested version | Yes | Number of similar terminals | 1 |
| Open sides | right | Type of mounting | Snap-on |
| Version | Tension-clamp connection, for plug-in cross-connector, One end without connector | | |

CSA ratings data

| | | | |
|-------------------------------|----------------|-------------------------------|-------|
| Certificate No. (CSA) | 200039-1152892 | Voltage size B (CSA) | 600 V |
| Voltage size C (CSA) | 600 V | Voltage size D (CSA) | 600 V |
| Current size B (CSA) | 50 A | Current size C (CSA) | 50 A |
| Current size D (CSA) | 5 A | Wire cross section max. (CSA) | 8 AWG |
| Wire cross section min. (CSA) | 20 AWG | | |

Clampable wires (additional connection)

| | | | |
|---|---------------------|---|-------------------|
| Conductor cross-section, flexible plus plastic collar DIN 46228/1, further connection, min. | 0.5 mm ² | Conductor cross-section, flexible plus plastic collar DIN 46228/1, further connection, max. | 6 mm ² |
|---|---------------------|---|-------------------|

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Technical data**Clampable wires (rated connection)**

| | | | |
|---|--------------------------|---|----------------------|
| Type of connection | Tension clamp connection | Stripping length | 13 mm |
| Blade size | 1.0 x 5.5 mm | Connection direction | top |
| Number of connections | 3 | Clamping range, rated connection, min. | 0.22 mm ² |
| Clamping range, rated connection, max. | 10 mm ² | Gauge to IEC 60947-1 | A5 |
| Wire connection cross section, solid core, max. rated connection | 0.5 mm ² | Wire connection cross section, solid core max. rated connection | 10 mm ² |
| Wire connection cross section, finely stranded, max. | 10 mm ² | Wire connection cross-section, finely stranded, min. | 0.5 mm ² |
| Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, rated connection, min. | 0.5 mm ² | Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, rated connection, max. | 6 mm ² |
| Cross-section for connected conductor, finely stranded with wire-end ferrules and plastic collars DIN 46228/4, rated connection, min. | 0.5 mm ² | Wire connection cross-section, finely stranded with wire-end ferrules and plastic collars DIN 46228/4, rated connection, max. | 6 mm ² |
| Twin wire-end ferrules, min. | 0.5 mm ² | Twin wire-end ferrules, max. | 2.5 mm ² |
| Wire connection cross section AWG, min. | AWG 22 | Wire connection cross section AWG, max. | AWG 8 |

Dimensions

| | |
|--------------|-------|
| TS 35 offset | 39 mm |
|--------------|-------|

Rated data

| | | | |
|---------------------------------|-------------------|---------------|---------------|
| Rated cross-section | 6 mm ² | Rated voltage | 800 V |
| Rated impulse withstand voltage | 8 kV | Rated current | 41 A |
| Current at maximum wires | 57 A | Standards | IEC 60947-7-1 |
| Pollution severity | 3 | | |

UL ratings data

| | | | |
|---|--------|---|-------|
| Certificate No. (UR) | E60693 | Voltage size C (UR) | 600 V |
| Current size C (UR) | 50 A | Conductor size Factory wiring max. (UR) | 8 AWG |
| Conductor size Factory wiring min. (UR) | 22 AWG | Conductor size Field wiring max. (UR) | 8 AWG |

Material data

| | | | |
|---------------------|------------|---------------------------|-------|
| Insulating material | Wemid | Material | Wemid |
| Colour | Dark Beige | UL 94 flammability rating | V-0 |

System specifications

| | | | |
|-----------------------------------|----------|----------------------------------|--------------------------|
| Product family | Z-series | Type of connection | Tension clamp connection |
| Connection direction | top | Number of levels | 1 |
| Number of connections | 3 | No. of clamping points per level | 3 |
| Levels cross-connected internally | No | Mounting rail | TS 35 |
| End cover plate required | Yes | | |

Classifications

| | | | |
|------------|-------------|------------|-------------|
| ETIM 3.0 | EC000897 | UNSPSC | 30-21-18-11 |
| eClass 5.1 | 27-14-11-20 | eClass 6.2 | 27-14-11-20 |
| eClass 7.1 | 27-14-11-20 | | |

Data sheet

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Technical data

Product information

| | |
|---------------------------------|--|
| Descriptive text ordering data | 1000 VDC rated voltage tested. |
| Descriptive text technical data | The ZH 0.5 - ZH 2.5 twin ferrules can be used. |

Approvals

Approvals



| | |
|------|---------|
| ROHS | Conform |
|------|---------|