

**Z-series  
ZDU 2.5/3AN GN**

**Weidmüller Interface GmbH & Co. KG**  
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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 2.5/3AN GN                                                                                                     |
| Order No.  | <a href="#">1683360000</a>                                                                                         |
| Version    | Z-series, Feed-through terminal, Rated cross-section: 2.5 mm <sup>2</sup> , Tension clamp connection, Wemid, Green |
| GTIN (EAN) | 4008190478025                                                                                                      |
| Qty.       | 100 pc(s).                                                                                                         |

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## Technische Daten

### Dimensions and weights

|            |         |                          |         |
|------------|---------|--------------------------|---------|
| Length     | 64.5 mm | Width                    | 5.1 mm  |
| Height     | 38.5 mm | Height of lowest version | 39.5 mm |
| Net weight | 9.83 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)         | KEMA97ATEX2521U                                                                                   | ATEX certificate          | KEMA97ATEX2521U_d.pdf    |
| ATEX certificate               | KEMA97ATEX2521U_e.pdf                                                                             | IEC Ex certificate        | IECEXULD05.0009U_e.pdf   |
| Max. voltage (ATEX)            | 550 V                                                                                             | Current (ATEX)            | 21 A                     |
| Wire cross section max. (ATEX) | 2.5 mm <sup>2</sup>                                                                               | 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)          | 27 A           | Current size C (CSA)          | 27 A   |
| Current size D (CSA)          | 5 A            | Wire cross section max. (CSA) | 12 AWG |
| Wire cross section min. (CSA) | 26 AWG         |                               |        |

### Clampable wires (additional connection)

|                                                                                             |                     |                                                                                             |                     |
|---------------------------------------------------------------------------------------------|---------------------|---------------------------------------------------------------------------------------------|---------------------|
| Conductor cross-section, flexible plus plastic collar DIN 46228/1, further connection, min. | 0.5 mm <sup>2</sup> | Conductor cross-section, flexible plus plastic collar DIN 46228/1, further connection, max. | 2.5 mm <sup>2</sup> |
|---------------------------------------------------------------------------------------------|---------------------|---------------------------------------------------------------------------------------------|---------------------|

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### Clampable wires (rated connection)

|                                                                                                                                       |                          |                                                                                                                               |                      |
|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------------------------------------------------------------------------------------------------------------|----------------------|
| Type of connection                                                                                                                    | Tension clamp connection | Stripping length                                                                                                              | 10 mm                |
| Blade size                                                                                                                            | 0.6 x 3.5 mm             | Connection direction                                                                                                          | top                  |
| Number of connections                                                                                                                 | 3                        | Clamping range, rated connection, min.                                                                                        | 0.05 mm <sup>2</sup> |
| Clamping range, rated connection, max.                                                                                                | 4 mm <sup>2</sup>        | Gauge to IEC 60947-1                                                                                                          | A3                   |
| Wire connection cross section, solid core, max. rated connection                                                                      | 0.5 mm <sup>2</sup>      | Wire connection cross section, solid core max. rated connection                                                               | 4 mm <sup>2</sup>    |
| Wire connection cross section, finely stranded, max.                                                                                  | 4 mm <sup>2</sup>        | Wire connection cross-section, finely stranded, min.                                                                          | 0.5 mm <sup>2</sup>  |
| Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, rated connection, min.                             | 0.5 mm <sup>2</sup>      | Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, rated connection, max.                     | 2.5 mm <sup>2</sup>  |
| Cross-section for connected conductor, finely stranded with wire-end ferrules and plastic collars DIN 46228/4, rated connection, min. | 0.5 mm <sup>2</sup>      | Wire connection cross-section, finely stranded with wire-end ferrules and plastic collars DIN 46228/4, rated connection, max. | 2.5 mm <sup>2</sup>  |
| Wire connection cross section AWG, min.                                                                                               | AWG 30                   | Wire connection cross section AWG, max.                                                                                       | AWG 12               |

### Rated data

|                                 |                     |               |               |
|---------------------------------|---------------------|---------------|---------------|
| Rated cross-section             | 2.5 mm <sup>2</sup> | Rated voltage | 800 V         |
| Rated impulse withstand voltage | 8 kV                | Rated current | 24 A          |
| Current at maximum wires        | 31 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)                     | 25 A   | Conductor size Factory wiring max. (UR) | 12 AWG |
| Conductor size Factory wiring min. (UR) | 30 AWG | Conductor size Field wiring max. (UR)   | 12 AWG |

### Material data

|                     |       |                           |       |
|---------------------|-------|---------------------------|-------|
| Insulating material | Wemid | Material                  | Wemid |
| Colour              | 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 |            |             |

### Product information

|                                |                                                                   |
|--------------------------------|-------------------------------------------------------------------|
| Descriptive text ordering data | Rated voltage is reduced to 400 V when using the cross-connector. |
|--------------------------------|-------------------------------------------------------------------|

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### Approvals

Approvals



ROHS

Conform