

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

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 26  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
Fax: +49 5231 14-292083  
www.weidmueller.com

**Product image****Spring connection with tension clamp Technology**

Tension clamp technology is a universal contact system for all common conductor connection types. Its fantastic level of flexibility makes the tension clamp a profitable alternative connection.

**General ordering data**

|            |                                                                            |
|------------|----------------------------------------------------------------------------|
| Type       | ZDU 2.5/3AN RT                                                             |
| Order No.  | <a href="#">1683340000</a>                                                 |
| Version    | Feed-through terminal, Tension-clamp connection, 2.5 mm², 800 V, 24 A, red |
| GTIN (EAN) | 4008190477981                                                              |
| Qty.       | 100 pc(s).                                                                 |

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**Technical data****Dimensions and weights**

|                          |         |                 |            |
|--------------------------|---------|-----------------|------------|
| Width                    | 5.1 mm  | Width (inches)  | 0.201 inch |
| Height                   | 64.5 mm | Height (inches) | 2.539 inch |
| Depth                    | 38.5 mm | Depth (inches)  | 1.516 inch |
| Depth including DIN rail | 39.5 mm | Net weight      | 9.01 g     |

**Temperatures**

|                                  |                                                                                                   |                                  |                |
|----------------------------------|---------------------------------------------------------------------------------------------------|----------------------------------|----------------|
| Operating temperature range      | For operating temperature range see EC Design Test Certificate / IEC Ex-Certificate of Conformity | Storage temperature, max.        | 55 °C          |
| Storage temperature, min.        | -25 °C                                                                                            | Storage temperature              | -25 °C...55 °C |
| Continuous operating temp., min. | -50 °C                                                                                            | Continuous operating temp., max. | 120 °C         |

**Material data**

|                           |       |        |     |
|---------------------------|-------|--------|-----|
| Material                  | Wemid | Colour | red |
| UL 94 flammability rating | V-0   |        |     |

**Rating data IECEx/ATEX**

|                                |                                                                                                   |                                 |                   |
|--------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------|-------------------|
| Certificate No. (ATEX)         | 71-101238_CB48336                                                                                 | Certificate No. (IECEx)         | IECExULD15.0008U  |
| Max. voltage (ATEX)            | 800 V                                                                                             | Current (ATEX)                  | 24 A              |
| Wire cross section max. (ATEX) | 2.5 mm <sup>2</sup>                                                                               | Max. voltage (IECEx)            | 550 V             |
| Current (IECEx)                | 22 A                                                                                              | Wire cross section max. (IECEx) | 4 mm <sup>2</sup> |
| Operating temperature range    | For operating temperature range see EC Design Test Certificate / IEC Ex-Certificate of Conformity | Marking EN 60079-7              | Ex eb II C Gb     |
| Ex 2014/34/EU label            | II 2 G D                                                                                          |                                 |                   |

**System specifications**

|                               |                                                                                  |                                     |       |
|-------------------------------|----------------------------------------------------------------------------------|-------------------------------------|-------|
| Version                       | Tension-clamp connection, for plug-in cross-connector, One end without connector | End cover plate required            | Yes   |
| Number of levels              | 1                                                                                | Number of clamping points per level | 3     |
| Number of potentials per tier | 1                                                                                | Levels cross-connected internally   | No    |
| PE connection                 | No                                                                               | Rail                                | TS 35 |

**Additional technical data**

|                             |         |                     |        |
|-----------------------------|---------|---------------------|--------|
| Explosion-tested version    | Yes     | Installation advice | Busbar |
| Number of similar terminals | 1       | Open sides          | right  |
| Type of mounting            | Snap-on |                     |        |

**CSA rating data**

|                               |                |                               |        |
|-------------------------------|----------------|-------------------------------|--------|
| Certificate No. (CSA)         | 200039-1152892 | Current size B (CSA)          | 27 A   |
| Current size C (CSA)          | 27 A           | Current size D (CSA)          | 5 A    |
| Voltage size B (CSA)          | 600 V          | Voltage size C (CSA)          | 600 V  |
| Voltage size D (CSA)          | 600 V          | Wire cross section max. (CSA) | 12 AWG |
| Wire cross section min. (CSA) | 26 AWG         |                               |        |

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**Technical data****Conductors for clamping (rated connection)**

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

**Rating data**

|                                             |                     |                                              |         |
|---------------------------------------------|---------------------|----------------------------------------------|---------|
| Rated cross-section                         | 2.5 mm <sup>2</sup> | Rated voltage                                | 800 V   |
| Rated current                               | 24 A                | Current at maximum wires                     | 31 A    |
| Standards                                   | IEC 60947-7-1       | Volume resistance according to IEC 60947-7-x | 1.33 mΩ |
| Power loss in accordance with IEC 60947-7-x | 0.77 W              | Rated impulse withstand voltage              | 8 kV    |
| Pollution severity                          | 3                   |                                              |         |

**UL rating data**

|                                         |        |                                         |        |
|-----------------------------------------|--------|-----------------------------------------|--------|
| Certificate No. (UR)                    | E60693 | Conductor size Factory wiring max. (UR) | 12 AWG |
| Conductor size Factory wiring min. (UR) | 30 AWG | Conductor size Field wiring max. (UR)   | 12 AWG |
| Conductor size Field wiring min. (UR)   | 30 AWG | Current size C (UR)                     | 25 A   |
| Voltage size C (UR)                     | 600 V  |                                         |        |

**Classifications**

|             |             |            |             |
|-------------|-------------|------------|-------------|
| ETIM 6.0    | EC000897    | ETIM 7.0   | EC000897    |
| eClass 9.0  | 27-14-11-20 | eClass 9.1 | 27-14-11-20 |
| eClass 10.0 | 27-14-11-20 | UNSPSC     | 30-21-18-11 |

**Approvals**

Approvals



ROHS

Conform

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## Technical data

### Downloads

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approval/Certificate/Document of Conformity | <a href="#">Attestation of Conformity</a><br><a href="#">IECEX Certificate</a><br><a href="#">ATEX Certificate</a><br><a href="#">CB Test Certificate</a><br><a href="#">CB Certificate</a><br><a href="#">EAC certificate</a><br><a href="#">DNVGL certificate</a><br><a href="#">DNVGL certificate</a><br><a href="#">INMETRO certificate</a><br><a href="#">Lloyds Register Certificate</a><br><a href="#">DE_PT1101_20160418_1205_ISSUE01.pdf</a><br><a href="#">Declaration of Conformity Terminals</a> |
| Engineering Data                            | <a href="#">EPLAN, WSCAD, Zuken E3.S</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Engineering Data                            | <a href="#">STEP</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| User Documentation                          | <a href="#">Cross Connection Guide</a><br><a href="#">StorageConditionsTerminalBlocks</a>                                                                                                                                                                                                                                                                                                                                                                                                                    |

### Safety note

|               |                                    |
|---------------|------------------------------------|
| Safety notice | <a href="#">Safety Information</a> |
|---------------|------------------------------------|

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## Drawings

