

## Z terminal with tension spring connection ZDU 35

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 16  
 D-32758 Detmold  
 Germany  
 Fon: +49 5231 14-0  
 Fax: +49 5231 14-292083  
 www.weidmueller.com



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 35   |
| Order No.  | <a href="#">1739620000</a>   |
| Version    | Z terminal with tension spring connection, Feed-through terminal, Rated cross-section: 35 mm <sup>2</sup> , Tension clamp connection, Wemid, Dark Beige, Direct mounting |
| GTIN (EAN) | 4008190957070  |
| Qty.       | 10 pc(s).  |

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### Technical data

#### Dimensions and weights

|            |          |                          |         |
|------------|----------|--------------------------|---------|
| Length     | 100.5 mm | Width                    | 16 mm   |
| Height     | 58.5 mm  | Height of lowest version | 59.5 mm |
| Net weight | 82.009 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)            | 690 V   | Current (ATEX)            | 109 A                    |
| Wire cross section max. (ATEX) | 35 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     | Installation advice | Direct mounting   |
| Number of similar terminals | 1       | Open sides          | closed  |
| Type of mounting            | Snap-on | Version             | Tension-clamp connection, for plug-in cross-connector, closed |

#### CSA ratings data

|                               |                 |                               |       |
|-------------------------------|-----------------|-------------------------------|-------|
| Certificate No. (CSA)         | 200039-1 152892 | Voltage size B (CSA)          | 600 V |
| Voltage size C (CSA)          | 600 V           | Voltage size D (CSA)          | 600 V |
| Current size B (CSA)          | 120 A           | Current size C (CSA)          | 120 A |
| Current size D (CSA)          | 5 A             | Wire cross section max. (CSA) | 2 AWG |
| Wire cross section min. (CSA) | 12 AWG          |                               |       |

#### Clampable wires (additional connection)

|   |                     |   |                    |
|---|---------------------|---|--------------------|
| Conductor cross-section, flexible plus plastic collar DIN 46228/1, further connection, min. | 2.5 mm <sup>2</sup> | Conductor cross-section, flexible plus plastic collar DIN 46228/1, further connection, max. | 35 mm <sup>2</sup> |
|---|---------------------|---|--------------------|

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### Technical data

#### Clampable wires (rated connection)

|   |                          |   |                     |
|---|--------------------------|---|---------------------|
| Type of connection  | Tension clamp connection | Stripping length  | 25 mm               |
| Blade size  | 1.0 x 5.5 mm             | Connection direction  | top                 |
| Number of connections   | 2                        | Clamping range, rated connection, min.  | 2.5 mm <sup>2</sup> |
| Clamping range, rated connection, max.  | 35 mm <sup>2</sup>       | Gauge to IEC 60947-1  | A8                  |
| Wire connection cross section, solid core, max. rated connection  | 2.5 mm <sup>2</sup>      | Wire connection cross section, solid core max. rated connection   | 16 mm <sup>2</sup>  |
| Wire connection cross section, stranded, rated connection, min.   | 2.5 mm <sup>2</sup>      | Wire connection cross section, stranded, rated connection, max.   | 35 mm <sup>2</sup>  |
| Wire connection cross section, finely stranded, max.  | 35 mm <sup>2</sup>       | Wire connection cross-section, finely stranded, min.  | 2.5 mm <sup>2</sup> |
| Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, rated connection, min.                             | 2.5 mm <sup>2</sup>      | Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, rated connection, max.                     | 35 mm <sup>2</sup>  |
| Cross-section for connected conductor, finely stranded with wire-end ferrules and plastic collars DIN 46228/4, rated connection, min. | 2.5 mm <sup>2</sup>      | Wire connection cross-section, finely stranded with wire-end ferrules and plastic collars DIN 46228/4, rated connection, max. | 35 mm <sup>2</sup>  |
| Wire connection cross section AWG, min.   | AWG 12                   | Wire connection cross section AWG, max.   | AWG 2               |

#### Rated data

|                                 |                    |               |               |
|---------------------------------|--------------------|---------------|---------------|
| Rated cross-section             | 35 mm <sup>2</sup> | Rated voltage | 800 V         |
| Rated impulse withstand voltage | 8 kV               | Rated current | 125 A         |
| Current at maximum wires        | 125 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)                     | 120 A  | Conductor size Factory wiring max. (UR) | 2 AWG |
| Conductor size Factory wiring min. (UR) | 12 AWG | Conductor size Field wiring max. (UR)   | 2 AWG |

#### Material data

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

#### System specifications

|                                   |   |                                  |                          |
|-----------------------------------|---|----------------------------------|--------------------------|
| Product family                    | Z terminal with tension spring connection | Type of connection               | Tension clamp connection |
| Connection direction              | top                                       | Number of levels                 | 1                        |
| Number of connections             | 2   | No. of clamping points per level | 2                        |
| Levels cross-connected internally | No  | End cover plate required         | No                       |

#### 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 |            |             |

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**Technical data**

**Product information**

|                                 |   |
|---------------------------------|---|
| Descriptive text ordering data  | End plate is integrated. 1000 VDC rated voltage tested.   |
| Descriptive text technical data | Cross-connection of ZDU 10 and ZDU 35 is possible using the ZQV 35-10. Cross-connection of ZDU 16 and ZDU 35 is possible using the ZQV 35-16. |

**Approvals**

Approvals



ROHS

Conform