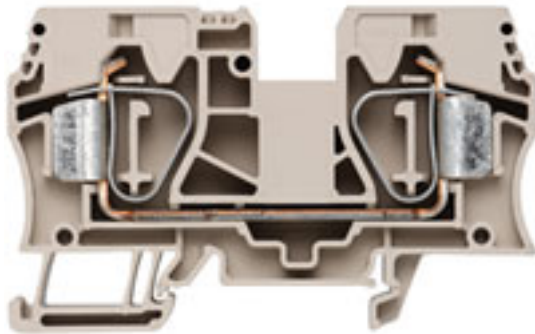


**Z-series  
ZDU 16**

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 16  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
Fax: +49 5231 14-292083  
[www.weidmueller.com](http://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 16                                                                                                                 |
| Order No.  | <a href="#">1745230000</a>                                                                                             |
| Version    | Z-series, Feed-through terminal, Rated cross-section: 16 mm <sup>2</sup> , Tension clamp connection, Wemid, Dark Beige |
| GTIN (EAN) | 4008190996765                                                                                                          |
| Qty.       | 25 pc(s).                                                                                                              |

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

|            |          |                          |         |
|------------|----------|--------------------------|---------|
| Length     | 82.5 mm  | Width                    | 12.1 mm |
| Height     | 50.5 mm  | Height of lowest version | 51.5 mm |
| Net weight | 36.752 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)          | KEMA99ATEX5514U                                                                                   | ATEX certificate               | KEMA99ATEX5514U_d.pdf    |
| ATEX certificate                | KEMA99ATEX5514U_e.pdf                                                                             | Certificate No. (IECEX)        | IECEXULD05.0009U         |
| IEC Ex certificate              | IECEXULD05.0009U_e.pdf                                                                            | Max. voltage (ATEX)            | 550 V                    |
| Current (ATEX)                  | 66 A                                                                                              | Wire cross section max. (ATEX) | 16 mm <sup>2</sup>       |
| Max. voltage (IECEX)            | 550 V                                                                                             | Current (IECEX)                | 63 A                     |
| Wire cross section max. (IECEX) | 16 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          | Current size B (CSA)          | 65 A  |
| Current size C (CSA)          | 65 A           | Wire cross section max. (CSA) | 4 AWG |
| Wire cross section min. (CSA) | 14 AWG         |                               |       |

**Clampable wires (additional connection)**

|                                                                                             |                     |                                                                                             |                    |
|---------------------------------------------------------------------------------------------|---------------------|---------------------------------------------------------------------------------------------|--------------------|
| Conductor cross-section, flexible plus plastic collar DIN 46228/1, further connection, min. | 1.5 mm <sup>2</sup> | Conductor cross-section, flexible plus plastic collar DIN 46228/1, further connection, max. | 16 mm <sup>2</sup> |
|---------------------------------------------------------------------------------------------|---------------------|---------------------------------------------------------------------------------------------|--------------------|

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

|                                                                                                                                       |                          |                                                                                                                               |                     |
|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------------------------------------------------------------------------------------------------------------|---------------------|
| Type of connection                                                                                                                    | Tension clamp connection | Stripping length                                                                                                              | 18 mm               |
| Blade size                                                                                                                            | 1.0 x 5.5 mm             | Connection direction                                                                                                          | top                 |
| Number of connections                                                                                                                 | 2                        | Clamping range, rated connection, min.                                                                                        | 1.5 mm <sup>2</sup> |
| Clamping range, rated connection, max.                                                                                                | 25 mm <sup>2</sup>       | Gauge to IEC 60947-1                                                                                                          | A7                  |
| Wire connection cross section, solid core, max. rated connection                                                                      | 1.5 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.                                                                       | 1.5 mm <sup>2</sup>      | Wire connection cross section, stranded, rated connection, max.                                                               | 25 mm <sup>2</sup>  |
| Wire connection cross section, finely stranded, max.                                                                                  | 16 mm <sup>2</sup>       | Wire connection cross-section, finely stranded, min.                                                                          | 1.5 mm <sup>2</sup> |
| Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, rated connection, min.                             | 1.5 mm <sup>2</sup>      | Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, rated connection, max.                     | 16 mm <sup>2</sup>  |
| Cross-section for connected conductor, finely stranded with wire-end ferrules and plastic collars DIN 46228/4, rated connection, min. | 1.5 mm <sup>2</sup>      | Wire connection cross-section, finely stranded with wire-end ferrules and plastic collars DIN 46228/4, rated connection, max. | 16 mm <sup>2</sup>  |
| Wire connection cross section AWG, min.                                                                                               | AWG 14                   | Wire connection cross section AWG, max.                                                                                       | AWG 4               |

**Dimensions**

|              |       |
|--------------|-------|
| TS 35 offset | 42 mm |
|--------------|-------|

**Rated data**

|                                 |                    |               |               |
|---------------------------------|--------------------|---------------|---------------|
| Rated cross-section             | 16 mm <sup>2</sup> | Rated voltage | 1,000 V       |
| Rated impulse withstand voltage | 8 kV               | Rated current | 76 A          |
| Current at maximum wires        | 98 A               | Standards     | IEC 60947-7-1 |
| Pollution severity              | 3                  |               |               |

**UL ratings data**

|                                         |                 |                                         |       |
|-----------------------------------------|-----------------|-----------------------------------------|-------|
| Certificate No. (UR)                    | E60693VOL1SEC52 | Voltage size C (UR)                     | 600 V |
| Current size C (UR)                     | 65 A            | Conductor size Factory wiring max. (UR) | 4 AWG |
| Conductor size Factory wiring min. (UR) | 14 AWG          | Conductor size Field wiring max. (UR)   | 4 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             | 2        | No. of clamping points per level | 2                        |
| Levels cross-connected internally | No       | Mounting rail                    | TS 35                    |
| End cover plate required          | Yes      |                                  |                          |

**Classifications**

|            |             |            |             |
|------------|-------------|------------|-------------|
| ETIM 2.0   | EC000897    | ETIM 3.0   | EC000897    |
| UNSPSC     | 30-21-18-11 | eClass 4.1 | 27-14-11-20 |
| eClass 5.1 | 27-14-11-20 | eClass 6.2 | 27-14-11-20 |
| eClass 7.1 | 27-14-11-20 |            |             |

Creation date August 6, 2013 11:06:39 AM CEST

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**Technical data****Product information**

|                                 |                                                                                                                                               |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Descriptive text ordering data  | 1000 V DC Bemessungsspannung bestanden.                                                                                                       |
| Descriptive text technical data | Cross-connection of ZDU 16 and ZDU 35 is possible using the ZQV 35-16. Cross-connection of ZDU 10 and ZDU 16 is possible using the ZQV 16-10. |

**Approvals**

Approvals



ROHS

Conform