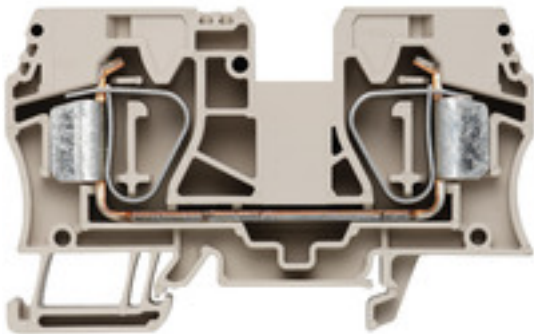


**ZDU 16****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://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**

|            |                                                                                                |
|------------|------------------------------------------------------------------------------------------------|
| Version    | Feed-through terminal, Tension-clamp connection, 16 mm <sup>2</sup> , 1000 V, 76 A, dark beige |
| Order No.  | <a href="#">1745230000</a>                                                                     |
| Type       | ZDU 16                                                                                         |
| GTIN (EAN) | 4008190996765                                                                                  |
| Qty.       | 25 pc(s).                                                                                      |

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

|                          |          |                |          |
|--------------------------|----------|----------------|----------|
| Depth                    | 50.5 mm  | Depth (inches) | 1.988 °C |
| Depth including DIN rail | 51.5 mm  | Height         | 82.5 mm  |
| Height (inches)          | 3.248 °C | Width          | 12.1 mm  |
| Width (inches)           | 0.476 °C | Net weight     | 36.752 g |

**Temperatures**

|                                  |                |                                  |                                                                                                   |
|----------------------------------|----------------|----------------------------------|---------------------------------------------------------------------------------------------------|
| Storage temperature              |                | Operating temperature range      | For operating temperature range see EC Design Test Certificate / IEC Ex-Certificate of Conformity |
|                                  | -25 °C...55 °C |                                  |                                                                                                   |
| Continuous operating temp., min. | -60 °C         | Continuous operating temp., max. | 130 °C                                                                                            |

**Material data**

|                           |       |        |            |
|---------------------------|-------|--------|------------|
| Material                  | Wemid | Colour | dark beige |
| UL 94 flammability rating | V-0   |        |            |

**Rating data IECEx/ATEX**

|                                |                                                                                                   |                                 |                    |
|--------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------|--------------------|
| Certificate No. (ATEX)         | DEMKO15ATEX1467U                                                                                  | Certificate No. (IECEX)         | IECEXULD15.0008U   |
| Max. voltage (ATEX)            | 690 V                                                                                             | Current (ATEX)                  | 68 A               |
| Wire cross section max. (ATEX) | 25 mm <sup>2</sup>                                                                                | Max. voltage (IECEX)            | 690 V              |
| Current (IECEX)                | 68 A                                                                                              | Wire cross section max. (IECEX) | 25 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 2014/34/EU label            | II 2 G D                                                                                          |                                 | Ex eb II C Gb      |

**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 | 2     |
| Number of potentials per tier | 1                                                                                | Levels cross-connected internally   | No    |
| PE connection                 | No                                                                               | Rail                                | TS 35 |

**Additional technical data**

|                          |       |                             |         |
|--------------------------|-------|-----------------------------|---------|
| Explosion-tested version | Yes   | 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)          | 65 A  |
| Current size C (CSA)          | 65 A           | Voltage size B (CSA)          | 600 V |
| Voltage size C (CSA)          | 600 V          | Wire cross section max. (CSA) | 4 AWG |
| Wire cross section min. (CSA) | 14 AWG         |                               |       |

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## Technical data

## Conductors for clamping (rated connection)

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

## Dimensions

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

## General

|                                         |       |                                         |               |
|-----------------------------------------|-------|-----------------------------------------|---------------|
| Rail                                    | TS 35 | Standards                               | IEC 60947-7-1 |
| Wire connection cross section AWG, max. | AWG 4 | Wire connection cross section AWG, min. | AWG 14        |

## Rating data

|                                              |                       |                                 |               |
|----------------------------------------------|-----------------------|---------------------------------|---------------|
| Rated cross-section                          | 16 Nm                 | Rated voltage                   | 1,000 V       |
| Rated DC voltage                             | 1,000 mm <sup>2</sup> | Rated current                   | 76 A          |
| Current at maximum wires                     | 98 A                  | Standards                       | IEC 60947-7-1 |
| Volume resistance according to IEC 60947-7-x | 0.42 °C               | Rated impulse withstand voltage | 8 kV          |
| Power loss in accordance with IEC 60947-7-x  | 2.43 W                | Pollution severity              | 3             |

## UL rating data

|                                         |                                |                                         |                                 |
|-----------------------------------------|--------------------------------|-----------------------------------------|---------------------------------|
| Certificate No. (UR)                    | E60693                         | Conductor size Factory wiring max. (UR) | 4 AWG                           |
| Conductor size Factory wiring min. (UR) | 14 AWG                         | Conductor size Field wiring max. (UR)   | 4 AWG                           |
| Conductor size Field wiring min. (UR)   | 14 AWG                         | Current size C (UR)                     | 65 A                            |
| UL_current_Print                        | 65 A                           | UL_voltage_Print                        | 600 V                           |
| UL_wire_max_Print                       | 4 A / 6 A / 10 A / 13 A / 15 A | UL_wire_min_Print                       | 14 A / 6 A / 10 A / 13 A / 15 A |
| Voltage size C (UR)                     | 600 V                          |                                         |                                 |

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC000897    | ETIM 7.0    | EC000897    |
| ETIM 8.0    | EC000897    | ECLASS 9.0  | 27-14-11-20 |
| ECLASS 9.1  | 27-14-11-20 | ECLASS 10.0 | 27-14-11-20 |
| ECLASS 11.0 | 27-14-11-20 |             |             |

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## Technical data

## Approvals

Approvals



|                       |         |
|-----------------------|---------|
| ROHS                  | Conform |
| UL File Number Search | E60693  |

## Downloads

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approval/Certificate/Document of Conformity | <a href="#">Attestation of Conformity</a><br><a href="#">IECEX Certificate</a><br><a href="#">CB Test Certificate</a><br><a href="#">CB Certificate</a><br><a href="#">EAC certificate</a><br><a href="#">INMETRO certificate</a><br><a href="#">Lloyds Register Certificate</a><br><a href="#">EAC EX Certificate</a><br><a href="#">CCC Ex Certificate</a><br><a href="#">ATEX Certificate</a><br><a href="#">Declaration of Conformity</a><br><a href="#">Declaration of Conformity all terminals</a> |
| Engineering Data                            | <a href="#">STEP</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Engineering Data                            | <a href="#">EPLAN, WSCAD, Zuken E3.S</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Product Change Notification                 | <a href="#">PCN ZDU16 ZPE16 ATEX IECEX change</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| User Documentation                          | <a href="#">StorageConditionsTerminalBlocks</a><br><a href="#">NTI ZDU/ZPE 16</a>                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Brochures                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

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## Drawings

