

**ZDU 6-2/3AN****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, 6 mm <sup>2</sup> , 800 V, 41 A, dark beige |
| Order No.  | <a href="#">1771410000</a>                                                                   |
| Type       | ZDU 6-2/3AN                                                                                  |
| GTIN (EAN) | 4032248143146                                                                                |
| Qty.       | 50 pc(s).                                                                                    |

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## Technical data

## Dimensions and weights

|                          |            |                |            |
|--------------------------|------------|----------------|------------|
| Depth                    | 49.5 mm    | Depth (inches) | 1.949 inch |
| Depth including DIN rail | 50 mm      | Height         | 68 mm      |
| Height (inches)          | 2.677 inch | Width          | 8.1 mm     |
| Width (inches)           | 0.319 inch | Net weight     | 19.36 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. | -50            | Continuous operating temp., max. | 120                                                                                               |

## Material data

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

## Rating data IECEx/ATEX

|                                |                                                                                                   |                                 |                    |
|--------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------|--------------------|
| Certificate No. (ATEX)         | DEMKO16ATEX1808U                                                                                  | Certificate No. (IECEX)         | DEMKO16ATEX1808U   |
| Max. voltage (ATEX)            | 550 V                                                                                             | Current (ATEX)                  | 38 A               |
| Wire cross section max. (ATEX) | 10 mm <sup>2</sup>                                                                                | Max. voltage (IECEX)            | 550 V              |
| Current (IECEX)                | 38 A                                                                                              | Wire cross section max. (IECEX) | 10 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 | 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   | 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)          | 50 A  |
| Current size C (CSA)          | 50 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) | 8 AWG |
| Wire cross section min. (CSA) | 20 AWG         |                               |       |

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## Conductors for clamping (rated connection)

|                                                                                         |                            |                                                                                         |                          |
|-----------------------------------------------------------------------------------------|----------------------------|-----------------------------------------------------------------------------------------|--------------------------|
| Blade size                                                                              | 0.6 x 3.5 mm, 0.8 x 4.0 mm | Clamping range, max.                                                                    | 10 mm <sup>2</sup>       |
| Clamping range, min.                                                                    | 0.22 mm <sup>2</sup>       | Connection direction                                                                    | Inclined / angled        |
| Gauge to IEC 60947-1                                                                    | A5                         | Number of connections                                                                   | 3                        |
| Stripping length                                                                        | 12 mm                      | Twin wire-end ferrules, max.                                                            | 2.5 mm <sup>2</sup>      |
| Twin wire-end ferrules, min.                                                            | 0.5 mm <sup>2</sup>        | Type of connection                                                                      | Tension-clamp connection |
| Wire connection cross section AWG, max.                                                 | AWG 8                      | Wire connection cross section AWG, min.                                                 | AWG 22                   |
| Wire connection cross section, finely stranded, max.                                    | 10 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, max. | 6 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. | 6 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, solid core, max.                                         | 10 mm <sup>2</sup>         | Wire connection cross-section, solid core, min.                                         | 0.5 mm <sup>2</sup>      |

## General

|                                         |       |                                         |               |
|-----------------------------------------|-------|-----------------------------------------|---------------|
| Rail                                    | TS 35 | Standards                               | IEC 60947-7-1 |
| Wire connection cross section AWG, max. | AWG 8 | Wire connection cross section AWG, min. | AWG 22        |

## Rating data

|                                 |                   |                                              |         |
|---------------------------------|-------------------|----------------------------------------------|---------|
| Rated cross-section             | 6 mm <sup>2</sup> | Rated voltage                                | 800 V   |
| Rated current                   | 41 A              | Current at maximum wires                     | 41 A    |
| Standards                       | IEC 60947-7-1     | Volume resistance according to IEC 60947-7-x | 0.78 mΩ |
| Rated impulse withstand voltage | 8 kV              | Power loss in accordance with IEC 60947-7-x  | 1.31 W  |
| Pollution severity              | 3                 |                                              |         |

## UL rating data

|                                         |        |                                         |       |
|-----------------------------------------|--------|-----------------------------------------|-------|
| Certificate No. (UR)                    | E60693 | Conductor size Factory wiring max. (UR) | 8 AWG |
| Conductor size Factory wiring min. (UR) | 22 AWG | Conductor size Field wiring max. (UR)   | 8 AWG |
| Conductor size Field wiring min. (UR)   | 22 AWG | Current size C (UR)                     | 45 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="#">ATEX Certificate</a><br><a href="#">IECEx Certificate</a><br><a href="#">EAC certificate</a><br><a href="#">DNVGL certificate</a><br><a href="#">EAC EX Certificate</a><br><a href="#">CCC Ex Certificate</a><br><a href="#">Declaration of Conformity</a><br><a href="#">CE Declaration of Conformity all terminals</a> |
| Engineering Data                            | <a href="#">CAD data – STEP</a>                                                                                                                                                                                                                                                                                                                                                   |
| Engineering Data                            | <a href="#">EPLAN, WSCAD, Zuken E3.S</a>                                                                                                                                                                                                                                                                                                                                          |
| User Documentation                          | <a href="#">NTI ZDU/ZPE 6-2/3AN</a><br><a href="#">StorageConditionsTerminalBlocks</a>                                                                                                                                                                                                                                                                                            |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>                                                                                                                                                                                                                                                                                                                                          |
| Brochures                                   |                                                                                                                                                                                                                                                                                                                                                                                   |

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## Drawings

