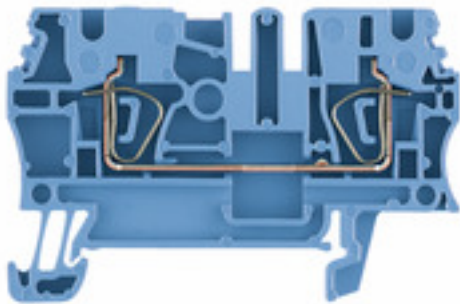


**ZDU 2.5 BL****Weidmüller Interface GmbH & Co. KG**

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, 2.5 mm <sup>2</sup> , 800 V, 24 A, blue |
| Order No.  | <a href="#">1608520000</a>                                                               |
| Type       | ZDU 2.5 BL                                                                               |
| GTIN (EAN) | 4008190077501                                                                            |
| Qty.       | 100 pc(s).                                                                               |

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

|                          |          |                |          |
|--------------------------|----------|----------------|----------|
| Depth                    | 38.5 mm  | Depth (inches) | 1.516 °C |
| Depth including DIN rail | 39.5 mm  | Height         | 59.5 mm  |
| Height (inches)          | 2.343 °C | Width          | 5.1 mm   |
| Width (inches)           | 0.201 °C | Net weight     | 7.16 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 | blue |
| UL 94 flammability rating | V-0   |        |      |

**Rating data IECEx/ATEX**

|                                |                                                                                                   |                                 |                   |
|--------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------|-------------------|
| Certificate No. (ATEX)         | DEMKO15ATEX1467U                                                                                  | Certificate No. (IECEX)         | IECEXULD15.0008U  |
| Max. voltage (ATEX)            | 550 V                                                                                             | Current (ATEX)                  | 22 A              |
| Wire cross section max. (ATEX) | 4 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 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)          | 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 Nm                     |
| Clamping range, min.                                                                    | 0.05 Nm      | Connection direction                                                                    | top                      |
| Gauge to IEC 60947-1                                                                    | A3           | Number of connections                                                                   | 2                        |
| 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 Nm         | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max. | 2.5 Nm                   |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min. | 0.5 Nm       | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max. | 2.5 Nm                   |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min. | 0.5 Nm       | Wire connection cross-section, solid core, max.                                         | 4 Nm                     |
| Wire connection cross-section, solid core, min.                                         | 0.5 Nm       |                                                                                         |                          |

**General**

|                                         |        |                                         |               |
|-----------------------------------------|--------|-----------------------------------------|---------------|
| Rail                                    | TS 35  | Standards                               | IEC 60947-7-1 |
| Wire connection cross section AWG, max. | AWG 12 | Wire connection cross section AWG, min. | AWG 30        |

**Rating data**

|                                 |               |                                              |         |
|---------------------------------|---------------|----------------------------------------------|---------|
| Rated cross-section             | 2.5 Nm        | 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 °C |
| Rated impulse withstand voltage | 8 kV          | Power loss in accordance with IEC 60947-7-x  | 0.77 W  |
| 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                            |
| UL_current_Print                        | 25 A                            | UL_voltage_Print                        | 600 V                           |
| UL_wire_max_Print                       | 12 A / 6 A / 10 A / 13 A / 15 A | UL_wire_min_Print                       | 30 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="#">DNVGL 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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| User Documentation                          | <a href="#">Usage of terminals in EXi atmospheres</a><br><a href="#">StorageConditionsTerminalBlocks</a><br><a href="#">NTI ZDU/ZPE 2.5</a>                                                                                                                                                                                                                                                                                                                                                                                                   |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Brochures                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

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## Drawings

