

**ZDU 35****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, 35 mm², 800 V, 125 A, dark beige |
| Order No.  | <a href="#">1739620000</a>                                                        |
| Type       | ZDU 35                                                                            |
| GTIN (EAN) | 4008190957070                                                                     |
| Qty.       | 10 pc(s).                                                                         |

## ZDU 35

Weidmüller Interface GmbH &amp; Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

## Technical data

## Dimensions and weights

|                          |            |                |            |
|--------------------------|------------|----------------|------------|
| Depth                    | 58.5 mm    | Depth (inches) | 2.303 inch |
| Depth including DIN rail | 59.5 mm    | Height         | 100.5 mm   |
| Height (inches)          | 3.957 inch | Net weight     | 82.009 g   |
| Width                    | 16 mm      | Width (inches) | 0.63 inch  |

## 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)          | KEMA00ATEX2107U        | ATEX certificate               | KEMA00ATEX2107U_d.pdf                                                                             |
| ATEX certificate                | KEMA00ATEX2107U_e.pdf  | Certificate No. (IECEX)        | IECEXULD15.0008U                                                                                  |
| 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>                                                                                |
| Max. voltage (IECEX)            | 690 V                  | Current (IECEX)                | 110 A                                                                                             |
| Wire cross section max. (IECEX) |                        | Operating temperature range    | For operating temperature range see EC Design Test Certificate / IEC Ex-Certificate of Conformity |
|                                 | 35 mm <sup>2</sup>     |                                |                                                                                                   |
| Marking EN 60079-7              | Ex eb II C Gb          | Ex 2014/34/EU label            | II 2 G D                                                                                          |

## System specifications

|                               |                                                                        |                                     |       |
|-------------------------------|------------------------------------------------------------------------|-------------------------------------|-------|
| Version                       | Tension-clamp connection, for plug-in cross-connector, in closed state | End cover plate required            | No    |
| 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     | Installation advice | Direct mounting |
| Number of similar terminals | 1       | Open sides          | closed          |
| Type of mounting            | Snap-on |                     |                 |

## CSA rating data

|                               |                |                               |       |
|-------------------------------|----------------|-------------------------------|-------|
| Certificate No. (CSA)         | 200039-1152892 | Current size B (CSA)          | 120 A |
| Current size C (CSA)          | 120 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) | 2 AWG |
| Wire cross section min. (CSA) | 12 AWG         |                               |       |

## ZDU 35

Weidmüller Interface GmbH &amp; Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

## Technical data

## Conductors for clamping (rated connection)

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

## General

|                                         |                 |                                         |       |
|-----------------------------------------|-----------------|-----------------------------------------|-------|
| Installation advice                     | Direct mounting | Rail                                    | TS 35 |
| Standards                               | IEC 60947-7-1   | Wire connection cross section AWG, max. | AWG 2 |
| Wire connection cross section AWG, min. | AWG 12          |                                         |       |

## Rating data

|                                              |         |                                 |                    |
|----------------------------------------------|---------|---------------------------------|--------------------|
| Power loss in accordance with IEC 60947-7-x  | 4 W     | Rated cross-section             | 35 mm <sup>2</sup> |
| Rated voltage                                | 800 V   | Rated current                   | 125 A              |
| Current at maximum wires                     | 125 A   | Standards                       | IEC 60947-7-1      |
| Volume resistance according to IEC 60947-7-x | 0.26 mΩ | Rated impulse withstand voltage | 8 kV               |
| Pollution severity                           | 3       |                                 |                    |

## UL rating data

|                                         |        |                                         |        |
|-----------------------------------------|--------|-----------------------------------------|--------|
| Certificate No. (UR)                    | E60693 | Conductor size Factory wiring max. (UR) | 2 AWG  |
| Conductor size Factory wiring min. (UR) | 12 AWG | Conductor size Field wiring max. (UR)   | 2 AWG  |
| Conductor size Field wiring min. (UR)   | 12 AWG | Current size C (UR)                     | 120 A  |
| UL_current_Print                        | 120 A  | UL_voltage_Print                        | 600 V  |
| UL_wire_max_Print                       | 2 AWG  | UL_wire_min_Print                       | 12 AWG |
| Voltage size C (UR)                     | 600 V  |                                         |        |

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC000897    | ETIM 7.0    | 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 |

**ZDU 35****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

**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="#">EAC 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</a> |
| Engineering Data                            | <a href="#">STEP</a>                                                                                                                                                                                                                                                                                                                                                       |
| Engineering Data                            | <a href="#">EPLAN, WSCAD, Zuken E3.S</a>                                                                                                                                                                                                                                                                                                                                   |
| User Documentation                          | <a href="#">StorageConditionsTerminalBlocks</a><br><a href="#">NTI ZDU/ZPE 35</a>                                                                                                                                                                                                                                                                                          |

### ZDU 35

**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

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

## Drawings

