

**Z-series
ZDU 35**

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
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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

| | |
|------------|--|
| Type | ZDU 35 |
| Order No. | 1739620000 |
| Version | Feed-through terminal, Tension clamp connection, 35 mm ² , 800 V, 125 A, Dark Beige |
| GTIN (EAN) | 4008190957070 |
| Qty. | 10 pc(s). |

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Technical data
Dimensions and weights

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

Temperatures

| | | | |
|----------------------------------|--------|----------------------------------|--------|
| Continuous operating temp., min. | -50 °C | Continuous operating temp., max. | 120 °C |
|----------------------------------|--------|----------------------------------|--------|

Material data

| | | | |
|---------------------------|-------|--------|------------|
| Material | Wemid | Colour | Dark Beige |
| UL 94 flammability rating | V-0 | | |

Rating data IECEx/ATEX

| | | | |
|--------------------------------|---|---------------------------------|--------------------|
| Certificate No. (ATEX) | KEMA00ATEX2 107U | Certificate No. (IECEX) | IECEXULD05.0009U |
| Max. voltage (ATEX) | 690 V | Current (ATEX) | 109 A |
| Wire cross section max. (ATEX) | 35 mm ² | Max. voltage (IECEX) | 550 V |
| Current (IECEX) | 109 A | Wire cross section max. (IECEX) | 35 mm ² |
| Operating temperature range | For operating temperature range see EC Design Test Certificate / IEC Ex-Certificate of Conformity | 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, closed | End cover plate required | No |
| Number of levels | 1 | No. of clamping points per level | 2 |
| Number of potentials per tier | 1 | Levels cross-connected internally | No |
| PE connection | No | Mounting 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 | | |

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Technical data**Conductors for clamping (rated connection)**

| | | | |
|---|---------------------|---|--------------------------|
| Blade size | 1.0 x 5.5 mm | Clamping range, max. | 35 mm ² |
| Clamping range, min. | 2.5 mm ² | Connection cross-section, stranded, max. | 35 mm ² |
| Connection cross-section, stranded, min. | 2.5 mm ² | 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 ² | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max. | 35 mm ² |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min. | 2.5 mm ² | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max. | 35 mm ² |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min. | 2.5 mm ² | Wire connection cross-section, finely stranded, min. | 2.5 mm ² |
| Wire connection cross-section, solid core, max. | 16 mm ² | Wire connection cross-section, solid core, min. | 2.5 mm ² |

Rating data

| | | | |
|---------------------------------|--------------------|--|---------|
| Rated cross-section | 35 mm ² | 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 |
| Voltage size C (UR) | 600 V | | |

Classifications

| | | | |
|------------|-------------|------------|-------------|
| ETIM 3.0 | EC000897 | ETIM 4.0 | EC000897 |
| ETIM 5.0 | EC000897 | ETIM 6.0 | EC000897 |
| UNSPSC | 30-21-18-11 | eClass 5.1 | 27-14-11-20 |
| eClass 6.2 | 27-14-11-20 | eClass 7.1 | 27-14-11-20 |
| eClass 8.1 | 27-14-11-20 | eClass 9.0 | 27-14-11-20 |
| eClass 9.1 | 27-14-11-20 | | |

Product information

| | |
|---------------------------------|---|
| Descriptive text ordering data | End plate is integrated. 1000 VDC rated voltage tested. |
| Descriptive text technical data | Cross-connection of ZDU 10 and ZDU 35 is possible using the ZQV 35-10. Cross-connection of ZDU 16 and ZDU 35 is possible using the ZQV 35-16. |

Data sheet

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Technical data

Approvals

Approvals



ROHS Conform

Downloads

| | |
|---|---|
| Approval/Certificate/Document of Conformity | Attestation of Conformity DE_PT1101_20160418_1244_ISSUE01.pdf |
| Brochure/Catalogue | CAT 1 TERM 16/17 EN |
| Engineering Data | EPLAN, WSCAD, Zuken E3.S |
| Engineering Data | STEP |

Safety note

Safety notice [Safety Information](#)

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Drawings

