

**Z-series
ZDU 6 OR**

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
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 6 OR |
| Order No. | 1636820000 |
| Version | Feed-through terminal, Tension-clamp connection, 6 mm ² , 800 V, 41 A, orange |
| GTIN (EAN) | 4008 19027365 1 |
| Qty. | 50 pc(s). |

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Catalogue status 14.08.2020 / We reserve the right to make technical changes.

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Technical data**Dimensions and weights**

| | | | |
|--------------------------|---------|-----------------|------------|
| Width | 8.1 mm | Width (inches) | 0.319 inch |
| Height | 65 mm | Height (inches) | 2.559 inch |
| Depth | 45 mm | Depth (inches) | 1.772 inch |
| Depth including DIN rail | 45.5 mm | Net weight | 17.33 g |

Temperatures

| | | | |
|----------------------------------|---|----------------------------------|----------------|
| Operating temperature range | For operating temperature range see EC Design Test Certificate / IEC Ex-Certificate of Conformity | Storage temperature, max. | 55 °C |
| Storage temperature, min. | -25 °C | Storage temperature | -25 °C...55 °C |
| Continuous operating temp., min. | -50 °C | Continuous operating temp., max. | 120 °C |

Material data

| | | | |
|---------------------------|-------|--------|--------|
| Material | Wemid | Colour | orange |
| UL 94 flammability rating | V-0 | | |

Rating data IECEx/ATEX

| | | | |
|--------------------------------|---|---------------------------------|-------------------|
| Certificate No. (ATEX) | KEMA97ATEX2521U | Certificate No. (IECEX) | IECEXULD05.0009U |
| Max. voltage (ATEX) | 550 V | Current (ATEX) | 36 A |
| Wire cross section max. (ATEX) | 6 mm ² | Max. voltage (IECEX) | 550 V |
| Current (IECEX) | 36 A | Wire cross section max. (IECEX) | 6 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, 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) | 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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Technical data
Conductors for clamping (rated connection)

| | | | |
|---|----------------------|---|--------------------------|
| Blade size | 1.0 x 5.5 mm | Clamping range, max. | 10 mm ² |
| Clamping range, min. | 0.22 mm ² | Connection direction | top |
| Gauge to IEC 60947-1 | A5 | Number of connections | 2 |
| Stripping length | 13 mm | Twin wire-end ferrules, max. | 2.5 mm ² |
| Twin wire-end ferrules, min. | 0.5 mm ² | 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. | 6 mm ² | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max. | 6 mm ² |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min. | 0.5 mm ² | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max. | 6 mm ² |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min. | 0.5 mm ² | Wire connection cross-section, finely stranded, min. | 0.5 mm ² |
| Wire connection cross-section, solid core, max. | 10 mm ² | Wire connection cross-section, solid core, min. | 0.5 mm ² |

Dimensions

| | |
|--------------|-------|
| TS 35 offset | 39 mm |
|--------------|-------|

Rating data

| | | | |
|---|-------------------|--|---------|
| Rated cross-section | 6 mm ² | Rated voltage | 800 V |
| Rated current | 41 A | Current at maximum wires | 57 A |
| Standards | IEC 60947-7-1 | Volume resistance according to IEC 60947-7-x | 0.78 mΩ |
| Power loss in accordance with IEC 60947-7-x | 1.31 W | Rated impulse withstand voltage | 8 kV |
| 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) | 50 A |
| 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 | UNSPSC | 30-21-18-11 |

Data sheet

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Technical data

Approvals

Approvals



ROHS Conform

Downloads

| | |
|---|--|
| Approval/Certificate/Document of Conformity | Attestation of Conformity IECEX Certificate CB Test Certificate CB Certificate EAC certificate DNVGL certificate DNVGL certificate INMETRO certificate Lloyds Register Certificate DE_PT1101_20160418_1281_ISSUE01.pdf Declaration of Conformity Terminals |
| Engineering Data | EPLAN, WSCAD, Zuken E3.S |
| Engineering Data | STEP |
| User Documentation | Cross Connection Guide StorageConditionsTerminalBlocks |

Safety note

Safety notice [Safety Information](#)

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Drawings

