

**Z-series  
ZEI 16-2/1AN**

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 16  
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Fon: +49 5231 14-0  
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**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       | ZEI 16-2/1AN  |
| Order No.  | <a href="#">1772940000</a>  |
| Version    | Supply terminal, Tension clamp connection, 16 mm <sup>2</sup> , 800 V, 76 A, Dark Beige |
| GTIN (EAN) | 4032248136568   |
| Qty.       | 20 pc(s).   |

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## Technical data

### Dimensions and weights

|                          |         |                 |            |
|--------------------------|---------|-----------------|------------|
| Width                    | 14 mm   | Width (inches)  | 0.551 inch |
| Height                   | 61.5 mm | Height (inches) | 2.421 inch |
| Depth                    | 50.5 mm | Depth (inches)  | 1.988 inch |
| Depth including DIN rail | 51.5 mm | Net weight      | 28.3 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   |        |            |

### System specifications

|                                   |   |                                  |     |
|-----------------------------------|---|----------------------------------|-----|
| Version                           | Tension-clamp connection, for plug-in cross-connector, closed | End cover plate required         | Yes |
| Number of levels                  | 1   | No. of clamping points per level | 1   |
| Levels cross-connected internally | No  | PE connection                    | No  |
| Mounting rail                     | TS 35   |                                  |     |

### Additional technical data

|                          |        |                             |         |
|--------------------------|--------|-----------------------------|---------|
| Explosion-tested version | No     | Number of similar terminals | 1       |
| Open sides               | closed | Type of mounting            | Snap-on |

### CSA rating data

|                               |                |                               |       |
|-------------------------------|----------------|-------------------------------|-------|
| Certificate No. (CSA)         | 200039-1152892 | Current size C (CSA)          | 65 A  |
| Voltage size C (CSA)          | 600 V          | Wire cross section max. (CSA) | 4 AWG |
| Wire cross section min. (CSA) | 14 AWG         |                               |       |

### Conductors for clamping (rated connection)

|   |                     |   |                          |
|---|---------------------|---|--------------------------|
| Blade size  | 1.0 x 5.5 mm        | Clamping range, max.  | 25 mm <sup>2</sup>       |
| Clamping range, min.  | 1.5 mm <sup>2</sup> | Connection cross-section, stranded, max.  | 25 mm <sup>2</sup>       |
| Connection cross-section, stranded, min.  | 16 mm <sup>2</sup>  | Connection direction  | Inclined / angled        |
| Gauge to IEC 60947-1  | A7                  | Number of connections   | 1                        |
| Stripping length  | 18 mm               | Type of connection  | Tension clamp connection |
| Wire connection cross section AWG, max.   | AWG 4               | Wire connection cross section AWG, min.   | AWG 14                   |
| Wire connection cross section, finely stranded, max.                                    | 16 mm <sup>2</sup>  | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max. | 16 mm <sup>2</sup>       |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min. | 1.5 mm <sup>2</sup> | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max. | 16 mm <sup>2</sup>       |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min. | 1.5 mm <sup>2</sup> | Wire connection cross-section, finely stranded, min.                                    | 1.5 mm <sup>2</sup>      |
| Wire connection cross-section, solid core, max.   | 10 mm <sup>2</sup>  | Wire connection cross-section, solid core, min.   | 1.5 mm <sup>2</sup>      |

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**Technical data**
**Rating data**

|                                 |                                  |  |         |
|---------------------------------|----------------------------------|--|---------|
| Rated cross-section             | 16 mm <sup>2</sup>               | Rated voltage                                | 800 V   |
| Rated current                   | 76 A                             | Current at maximum wires                     | 76 A    |
| Standards                       | In accordance with IEC 60947-7-1 | Volume resistance according to IEC 60947-7-x | 0.42 mΩ |
| Rated impulse withstand voltage | 6 kV                             | Pollution severity                           | 3       |

**UL rating data**

|   |        |   |       |
|---|--------|---|-------|
| Certificate No. (UR)                    | E60693 | Conductor size Factory wiring max. (UR) | 4 AWG |
| Conductor size Factory wiring min. (UR) | 14 AWG | Conductor size Field wiring max. (UR)   | 4 AWG |
| Conductor size Field wiring min. (UR)   | 14 AWG | Current size C (UR)                     | 65 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.   |
| Descriptive text technical data | Rated voltage is reduced to 400 V or the IP rated voltage of the distribution terminals. |
| Descriptive text accessories    | The plug-in cross-connections ZQV 2.5/..., ZQV 4/... and ZQV 6/... can be used.          |

**Approvals**

Approvals



|      |         |
|------|---------|
| ROHS | Conform |
|------|---------|

**Downloads**

|   |   |
|---|---|
| Approval/Certificate/Document of Conformity | <a href="#">DE_PT1141_20160418_1344_ISSUE01.pdf</a> |
| Brochure/Catalogue                          | <a href="#">CAT 1 TERM 16/17 EN</a>                 |
| Engineering Data                            | <a href="#">EPLAN, WSCAD, Zuken E3.S</a>            |

**Safety note**

|               |                                    |
|---------------|------------------------------------|
| Safety notice | <a href="#">Safety Information</a> |
|---------------|------------------------------------|

**Data sheet**

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**Drawings**

