Data sheet

# ZDU 2.5/4AN GN

**Weidmüller Interface GmbH & Co. KG**
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

## Product image

To feed through power, signal, and data is the classical requirement in electrical engineering and panel building. The insulating material, the connection system and the design of the terminal blocks are the differentiating features. A feed-through terminal block is suitable for joining and/or connecting one or more conductors. They could have one or more connection levels that are on the same potential or insulated against one another.

### General ordering data

| | |
|---|---|
| Version | Feed-through terminal, Tension-clamp connection, 2.5 mm², 800 V, 24 A, green |
| Order No. | 1683440000 |
| Type | ZDU 2.5/4AN GN |
| GTIN (EAN) | 4008190478230 |
| Qty. | 100 items |

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## Technical data

### Approvals

| | |
|---|---|
| Approvals | |
| ROHS | Conform |
| UL File Number Search | UL Website |
| Certificate No. (cURus) | E60693 |
| Certificate No. (cURusEX) | E184763 |

### Dimensions and weights

| | | | |
|---|---|---|---|
| Depth | 38.5 mm | Depth (inches) | 1.5157 inch |
| Depth including DIN rail | 39.5 mm | Height | 79.5 mm |
| Height (inches) | 3.1299 inch | Width | 5.1 mm |
| Width (inches) | 0.2008 inch | Net weight | 10.68 g |

### Temperatures

| | | | |
|---|---|---|---|
| Storage temperature | -25 °C...55 °C | Ambient temperature | -5 °C...40 °C |
| Continuous operating temp., min. | -50 °C | Continuous operating temp., max. | 120 °C |

### Environmental Product Compliance

| | |
|---|---|
| RoHS Compliance Status | Compliant without exemption |
| REACH SVHC | No SVHC above 0.1 wt% |

### Material data

| | | | |
|---|---|---|---|
| Basic material | Wemid | Colour | green |
| 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 mm² | Max. voltage (IECEX) | 550 V |
| Current (IECEX) | 22 A | Wire cross section max. (IECEX) | 4 mm² |
| 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 potentials | 1 | Number of levels | 1 |

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| | | | |
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| Number of clamping points per level | 4 | Number of potentials per tier | 1 |
| Levels cross-connected internally | No | PE connection | No |
| Mounting rail | TS 35 | | |

### Additional technical data

| | | | |
|---|---|---|---|
| Open sides | right | Number of similar terminals | 1 |
| Installation advice | Busbar | Explosion-tested version | Yes |
| Type of mounting | Snap-on | | |

### CSA rating data

| | | | |
|---|---|---|---|
| Wire cross section max. (CSA) | 12 AWG | Voltage size C (CSA) | 600 V |
| Current size C (CSA) | 27 A | Certificate No. (CSA) | 200039-1152892 |
| Voltage size B (CSA) | 600 V | Current size B (CSA) | 27 A |
| Voltage size D (CSA) | 600 V | Current size D (CSA) | 5 A |
| Wire cross section min. (CSA) | 26 AWG | | |

### Conductors for clamping (additional connection)

| | |
|---|---|
| Connection type, additional connection | Tension-clamp connection |

### Conductors for clamping (rated connection)

| | | | |
|---|---|---|---|
| Gauge to IEC 60947-1 | A3 | Wire connection cross section AWG, max. | AWG 12 |
| Connection direction | top | Stripping length | 10 mm |
| Type of connection | Tension-clamp connection | Number of connections | 4 |
| Clamping range, max. | 4 mm² | Clamping range, min. | 0.05 mm² |
| Blade size | 0.6 x 3.5 mm | Wire connection cross section AWG, min. | AWG 30 |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max. | 2.5 mm² | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min. | 0.05 mm² |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max. | 2.5 mm² | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min. | 0.05 mm² |
| Wire connection cross section, finely stranded, max. | 4 mm² | Wire connection cross section, finely stranded, min. | 0.05 mm² |
| Connection cross-section, stranded, max. | 4 mm² | Connection cross-section, stranded, min. | 0.05 mm² |
| Wire connection cross-section, solid core, max. | 4 mm² | Wire connection cross-section, solid core, min. | 0.05 mm² |
| Connection cross-section, finely stranded, min. | 0.05 mm² | | |

### General

| | | | |
|---|---|---|---|
| Wire connection cross section AWG, max. | AWG 12 | Installation advice | Busbar |
| Wire connection cross section AWG, min. | AWG 30 | Standards | IEC 60947-7-1 |
| Mounting rail | TS 35 | | |

### Rating data

| | | | |
|---|---|---|---|
| Rated cross-section | 2.5 mm² | Rated voltage | 800 V |
| Rated DC voltage | 800 V | Nominal current | 24 A |

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| | | | |
|---|---|---|---|
| Current at maximum wires | 27 A | Standards | IEC 60947-7-1 |
| Volume resistance according to IEC 60947-7-x | 1.33 mΩ | Rated impulse withstand voltage | 8 kV |
| Power loss in accordance with IEC 60947-7-x | 0.77 W | Pollution severity | 3 |

### UL rating data

| | | | |
|---|---|---|---|
| Conductor size Factory wiring max. (cURus) | 12 AWG | Certificate No. (cURus) | E60693 |
| Conductor size Field wiring min. (cURus) | 30 AWG | Conductor size Factory wiring min. (cURus) | 30 AWG |
| Voltage size C (cURus) | 600 V | Current size C (cURus) | 25 A |
| Conductor size Field wiring max. (cURus) | 12 AWG | | |

### Classifications

| | | | |
|---|---|---|---|
| ETIM 6.0 | EC000897 | ETIM 7.0 | EC000897 |
| ETIM 8.0 | EC000897 | ETIM 9.0 | EC000897 |
| ETIM 10.0 | 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 | ECLASS 12.0 | 27-14-11-20 |
| ECLASS 13.0 | 27-25-01-01 | ECLASS 14.0 | 27-25-01-01 |
| ECLASS 15.0 | 27-25-01-01 | | |

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## Drawings