

ZPE 16

Weidmüller Interfaces GmbH & Co. KG

Postfach 3030

32760 Detmold

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Product image



A protective feed through terminal block is an electrical conductor for the purpose of safety and is used in many applications. To establish the electrical and mechanical connection between copper conductors and the mounting support plate, PE terminal blocks are used. They have one or more contact points for connection with and/or bifurcation of protective earth conductors.

General ordering data

| | |
|------------|--|
| Version | PE terminal, Tension-clamp connection, 16 mm ² , 1920 A (16 mm ²), Green/yellow |
| Order No. | 1745250000 |
| Type | ZPE 16 |
| GTIN (EAN) | 4008190996789 |
| Qty. | 25 pc(s). |

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Technical data**Dimensions and weights**

| | | | |
|--------------------------|------------|----------------|------------|
| Depth | 50.5 mm | Depth (inches) | 1.988 inch |
| Depth including DIN rail | 51.5 mm | Height | 82.5 mm |
| Height (inches) | 3.248 inch | Width | 12.1 mm |
| Width (inches) | 0.476 inch | Net weight | 48.672 g |

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 °C | Continuous operating temp., max. | 120 °C |

Material data

| | | | |
|---------------------------|-------|--------|--------------|
| Material | Wemid | Colour | Green/yellow |
| UL 94 flammability rating | V-0 | | |

Rating data IECEx/ATEX

| | | | |
|--------------------------------|---|---------------------------------|--------------------|
| Certificate No. (ATEX) | DEMKO15ATEX1467U | Certificate No. (IECEX) | IECEXULD15.0008U |
| Wire cross section max. (ATEX) | 25 mm ² | Wire cross section max. (IECEX) | 25 mm ² |
| Operating temperature range | For operating temperature range see EC Design Test Certificate / IEC Ex-Certificate of Conformity | Marking EN 60079-7 | |
| Ex 2014/34/EU label | II 2 G D | | Ex eb II C Gb |

System specifications

| | | | |
|-----------------------------------|---|-------------------------------------|-----|
| Version | Tension-clamp connection, With PE connection, One end without connector | End cover plate required | Yes |
| Number of levels | 1 | Number of clamping points per level | 2 |
| Levels cross-connected internally | No | PE connection | Yes |
| Rail | TS 35 | PE function | Yes |
| PEN function | Yes | | |

Additional technical data

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

CSA rating data

| | | | |
|-------------------------------|----------------|-------------------------------|-------|
| Certificate No. (CSA) | 200039-1152892 | Wire cross section max. (CSA) | 4 AWG |
| Wire cross section min. (CSA) | 14 AWG | | |

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Clamping range, max. 25 mm²
Connection cross-section, stranded, max. 25 mm²

Connection direction top

Number of connections 2

Type of connection Tension-clamp connection

Wire connection cross section AWG, min. AWG 14

Wire connection cross section, finely stranded, min. 1.5 mm²Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min. 1.5 mm²Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min. 1.5 mm²Wire connection cross-section, solid core, min. 1.5 mm²

Conductors for clamping (rated connection)

Blade size 1.0 x 5.5 mm

Clamping range, min. 1.5 mm²Connection cross-section, stranded, min. 1.5 mm²

Gauge to IEC 60947-1 A7

Stripping length 18 mm

Wire connection cross section AWG, max. AWG 4

Wire connection cross section, finely stranded, max. 16 mm²Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max. 16 mm²Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max. 16 mm²Wire connection cross-section, solid core, max. 16 mm²

General

Rail TS 35

Wire connection cross section AWG, max. AWG 4

Standards IEC 60947-7-2

Wire connection cross section AWG, min. AWG 14

PE rating data

Rated short-time current 1920 A (16 mm²)

PEN function Yes

Rating data

Rated cross-section 16 mm²

Standards IEC 60947-7-2

Rated impulse withstand voltage to adjacent terminal 8 kV

Pollution severity 3

Rated voltage to adjoining terminal 800 V

Volume resistance according to IEC 60947-7-x 0.42 mΩ

Power loss in accordance with IEC 60947-7-x 2.43 W

UL rating data

Certificate No. (cURus) E60693

Conductor size Factory wiring min. (cURus) 14 AWG

Conductor size Field wiring min. (cURus) 14 AWG

Conductor size Factory wiring max. (cURus) 6 AWG

Conductor size Field wiring max. (cURus) 6 AWG

Classifications

ETIM 6.0 EC000901

ETIM 8.0 EC000901

ECLASS 9.1 27-14-11-41

ECLASS 11.0 27-14-11-41

ETIM 7.0 EC000901

ECLASS 9.0 27-14-11-41

ECLASS 10.0 27-14-11-41

ECLASS 12.0 27-14-11-41

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Technical data

Approvals

Approvals



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

Downloads

| | |
|---|--|
| Approval/Certificate/Document of Conformity | Attestation of Conformity IECEx Certificate CB Test Certificate CB Certificate EAC certificate INMETRO certificate Lloyds Register Certificate EAC EX Certificate CCC Ex Certificate ATEX Certificate UKCA Ex Certificate Declaration of Conformity CE Declaration of Conformity all terminals UKCA declaration of conformity |
| Engineering Data | CAD data – STEP |
| Engineering Data | WSCAD, Zuken E3.S |
| Product Change Notification | PCN_ZPE_Q3_2020 PCN - EN PCN - DE PCN ZDU16 ZPE16 ATEX IECEx change |
| User Documentation | StorageConditionsTerminalBlocks NTI ZDU/ZPE 16 BPZL Z-Series |
| Catalogues | Catalogues in PDF-format |
| Brochures | |

Data sheet

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Drawings

