

**W-Series
WDU 50N BL**

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The versatile and extensive range of products - from 0.05 mm² to 300 mm² - means that you have diverse options for your applications at your disposal. Hardened steel for mechanical strength and high-quality tinned copper for optimum conductivity. All materials comply with RoHS requirements and have been tested to current environment guidelines.

General ordering data

| | |
|------------|---|
| Type | WDU 50N BL |
| Order No. | 1820850000 |
| Version | W-Series, Feed-through terminal, Rated cross-section: 50 mm ² , Screw connection, Blue |
| GTIN (EAN) | 4032248317806 |
| Qty. | 10 pc(s). |

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Technische Daten

Dimensions and weights

| | | | |
|------------|----------|--------------------------|---------|
| Length | 70 mm | Width | 18.5 mm |
| Height | 69.6 mm | Height of lowest version | 70.6 mm |
| Net weight | 80.443 g | | |

Temperatures

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

Rated data IECEx/ATEX

| | | | |
|---------------------------|--------------------------|--------------------------------|---|
| Certificate No. (ATEX) | KEMA98ATEX1683U | ATEX certificate | KEMA98ATEX1683U_d.pdf |
| ATEX certificate | KEMA98ATEX1683U_e.pdf | Max. voltage (ATEX) | 690 V |
| Current (ATEX) | 126 A | Wire cross section max. (ATEX) | 50 mm ² |
| Voltage, cross-connection | | Operating temperature range | For operating temperature range see EC Design Test Certificate / IEC Ex-Certificate of Conformity |
| | CrossConnectionGuide.pdf | | |
| Marking EN 60079-7 | Ex e II | Marking ATEX Directive 94/9/EC | II 2 G D |

2 clampable wires (H05V/H07V) same cross-section (rated connection)

| | | | |
|--|-------------------|--|--------------------|
| Cross-section for connected wire, stranded, two clampable wires, min. | 6 mm ² | Cross-section for connected wire, stranded, two clampable wires, max. | 16 mm ² |
| Wire connection cross section, finely stranded, two clampable wires, min. | 6 mm ² | Wire cross-section, finely stranded, two clampable wires, max. | 16 mm ² |
| Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, 2 clampable wires, min. | 6 mm ² | Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, 2 clampable wires, max. | 16 mm ² |

Additional technical data

| | | | |
|--------------------------|---------|------------|--|
| Explosion-tested version | No | Open sides | closed |
| Type of mounting | | Version | Screw connection, for screwable cross-connection, closed |
| | Snap-on | | |

CSA ratings data

| | | | |
|-------------------------------|----------------|-------------------------------|-------|
| Certificate No. (CSA) | 200039-1057876 | Voltage size B (CSA) | 600 V |
| Voltage size C (CSA) | 600 V | Voltage size D (CSA) | 600 V |
| Current size B (CSA) | 150 A | Current size C (CSA) | 150 A |
| Current size D (CSA) | 5 A | Wire cross section max. (CSA) | 0 AWG |
| Wire cross section min. (CSA) | 8 AWG | | |

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Clampable wires (rated connection)

| | | | |
|---|--------------------|---|--------------------|
| Type of connection | Screw connection | Stripping length | 24 mm |
| Blade size | S4 (DIN 6911) | Connection direction | on side |
| Clamping range, rated connection, min. | 10 mm ² | Clamping range, rated connection, max. | 70 mm ² |
| Clamping screw | M 6 | Tightening torque, min. | 3.5 Nm |
| Tightening torque, max. | 6 Nm | Gauge to IEC 60947-1 | B10 |
| Wire connection cross section, solid core, max. rated connection | 10 mm ² | Wire connection cross section, solid core max. rated connection | 16 mm ² |
| Wire connection cross section, stranded, rated connection, min. | 10 mm ² | Wire connection cross section, stranded, rated connection, max. | 70 mm ² |
| Wire connection cross section, finely stranded, max. | 50 mm ² | Wire connection cross-section, finely stranded, min. | 10 mm ² |
| Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, rated connection, min. | 10 mm ² | Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, rated connection, max. | 50 mm ² |

Dimensions

| | |
|--------------|-------|
| TS 35 offset | 40 mm |
|--------------|-------|

Rated data

| | | | |
|---------------------------------|--------------------|---------------|---------------|
| Rated cross-section | 50 mm ² | Rated voltage | 1,000 V |
| Rated impulse withstand voltage | 8 kV | Rated current | 150 A |
| Current at maximum wires | 192 A | Standards | IEC 60947-7-1 |
| Pollution severity | 3 | | |

UL ratings data

| | | | |
|---|--------|---|-------|
| Certificate No. (UR) | E60693 | Voltage size C (UR) | 600 V |
| Current size C (UR) | 150 A | Conductor size Factory wiring max. (UR) | 0 AWG |
| Conductor size Factory wiring min. (UR) | 10 AWG | Conductor size Field wiring max. (UR) | 0 AWG |

Material data

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

System specifications

| | | | |
|----------------------------------|----------|-----------------------------------|------------------|
| Product family | W-Series | Type of connection | Screw connection |
| Connection direction | on side | Number of levels | 1 |
| No. of clamping points per level | 2 | Levels cross-connected internally | No |
| Mounting rail | TS 32 | End cover plate required | No |

Classifications

| | | | |
|------------|-------------|------------|-------------|
| ETIM 3.0 | 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 | | |

Product information

| | |
|--------------------------------|---|
| Descriptive text ordering data | 1000 VDC rated voltage tested. 1000 V UL and CSA for use groups B and C: can be used with isolating DIN rails and when using WTW-type partitions. |
| Descriptive text accessories | Auxiliary connection for additional conductor "WZAD 50N" 1872720000 (up to 10 mm ² , 41 A). |

Erstellungs-Datum January 15, 2014 11:10:40 AM CET

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Technische Daten

Approvals

Approvals



ROHS

Conform

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Zeichnungen

