

W-Series
WPE 50N
Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 16

D-32758 Detmold

Germany

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Klippon® Connect with clamping yoke Technology

The high reliability and variety of designs of the terminal blocks with clamping yoke connections make planning easier and optimises operational safety. Klippon® Connect provides a proven response to a range of different requirements.

General ordering data

| | |
|------------|--|
| Type | WPE 50N |
| Order No. | 1846040000 |
| Version | PE terminal, Screw connection, 50 mm ² , 6000 A (50 mm ²), green / yellow |
| GTIN (EAN) | 4032248394548 |
| Qty. | 10 pc(s). |

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Technical data**Dimensions and weights**

| | | | |
|--------------------------|---------|-----------------|------------|
| Width | 18.5 mm | Width (inches) | 0.728 inch |
| Height | 71 mm | Height (inches) | 2.795 inch |
| Depth | 69.6 mm | Depth (inches) | 2.74 inch |
| Depth including DIN rail | 70 mm | Net weight | 126.143 g |

Temperatures

| | | | |
|----------------------------------|--------|----------------------------------|--------|
| Continuous operating temp., min. | -60 °C | Continuous operating temp., max. | 130 °C |
|----------------------------------|--------|----------------------------------|--------|

Material data

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

Rating data IECEx/ATEX

| | | | |
|--------------------------------|---|---------------------------------|--------------------|
| Certificate No. (ATEX) | DEMKO14ATEX1338U | Certificate No. (IECEX) | IECEXULD14.0005U |
| Wire cross section max. (ATEX) | 50 mm ² | Wire cross section max. (IECEX) | 50 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 e II |

System specifications

| | | | |
|--|--|------------------------------------|----------|
| Version | Screw connection, With PE connection, closed | Tightening torque (mounting screw) | 3...4 Nm |
| Tightening torque (clamping screw for copper conductors) | 4...6 Nm | End cover plate required | No |
| Number of potentials | 1 | Number of levels | 1 |
| No. of clamping points per level | 2 | Number of potentials per tier | 1 |
| Levels cross-connected internally | No | PE connection | Yes |
| Mounting rail | TS 35 | N-function | No |
| PE function | Yes | PEN function | Yes |

2 clampable conductors (H05V/H07V) with equal 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 | Yes | Installation advice | Screwed |
| Interlock | for screw fixing | Number of similar terminals | 1 |
| Open sides | closed | Type of mounting | Screwed |

CSA rating data

| | | | |
|-------------------------------|----------------|-------------------------------|-------|
| Certificate No. (CSA) | 200039-1057876 | Wire cross section max. (CSA) | 0 AWG |
| Wire cross section min. (CSA) | 14 AWG | | |

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Technical data
Conductors for clamping (rated connection)

| | | | |
|---|----------------------|---|--------------------|
| Blade size | S4 (DIN 6911) | Clamping range, rated connection, max. | 70 mm ² |
| Clamping range, rated connection, min. | 5.26 mm ² | Clamping screw | M 6 |
| Connection direction | on side | Gauge to IEC 60947-1 | B10 |
| Number of connections | 2 | Stripping length | 24 mm |
| Tightening torque, max. | 6 Nm | Tightening torque, min. | 4 Nm |
| Type of connection | Screw connection | Wire connection cross section AWG, max. | AWG 0 |
| Wire connection cross section AWG, min. | AWG 14 | Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, rated connection, max. | 50 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, max. | 50 mm ² |
| Wire connection cross section, solid core max. rated connection | 16 mm ² | Wire connection cross section, solid core, min. rated connection | 10 mm ² |
| Wire connection cross section, stranded, rated connection, max. | 70 mm ² | Wire connection cross section, stranded, rated connection, min. | 10 mm ² |
| Wire connection cross-section, finely stranded, min. | 10 mm ² | | |

PE rating data

| | | | |
|--|------------------------------|------------------------------|-----|
| Rated short-time current | 6000 A (50 mm ²) | Centre screw on PE terminals | M 5 |
| Tightening torque range for fixing screw | 3.0...4.0 Nm | PEN function | Yes |

Rating data

| | | | |
|--|--------------------|--|---------|
| Rated cross-section | 50 mm ² | Rated voltage to adjoining terminal | 1,000 V |
| Standards | IEC 60947-7-2 | Volume resistance according to IEC 60947-7-x | 0.21 mΩ |
| Rated impulse withstand voltage to adjacent terminal | 8 kV | Pollution severity | 3 |

UL rating data

| | | | |
|---|--------|---|-------|
| Certificate No. (UR) | E60693 | Conductor size Factory wiring max. (UR) | 0 AWG |
| Conductor size Factory wiring min. (UR) | 10 AWG | Conductor size Field wiring max. (UR) | 0 AWG |
| Conductor size Field wiring min. (UR) | 10 AWG | | |

Classifications

| | | | |
|------------|-------------|------------|-------------|
| ETIM 3.0 | EC000901 | ETIM 4.0 | EC000491 |
| ETIM 5.0 | EC000491 | ETIM 6.0 | EC000901 |
| UNSPSC | 30-21-18-11 | eClass 5.1 | 27-14-03-05 |
| eClass 6.2 | 27-14-03-05 | eClass 7.1 | 27-14-03-05 |
| eClass 8.1 | 27-14-11-41 | eClass 9.0 | 27-14-11-41 |
| eClass 9.1 | 27-14-11-41 | | |

Product information

| | |
|---------------------------------|--|
| Descriptive text technical data | For 50 and 70 mm ² , the TS 35 x 15 (copper, 2.3 mm thick) mounting rail should be used. |
| Descriptive text accessories | Rail support protective insulation for installation of mounting rail "SH 2" order No. 0494920000 (QTY 10). |

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Technical data**Approvals**

Approvals



ROHS Conform

Downloads

| | |
|---|---|
| Approval/Certificate/Document of Conformity | CFAT_WPE 50N.pdf IECEXULD14.0005U_e.pdf DE_PT1002_20160418_937_ISSUE01.pdf ACF-ATEX_4786180920 |
| Brochure/Catalogue | CAT 1 TERM 16/17 EN |
| Engineering Data | EPLAN, WSCAD, Zuken E3.S |
| User Documentation | NTI_IECEX_WDU-WPE 50N.pdf |

Safety noteSafety notice [Safety Information](#)

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Drawings

