

Bolt-type screw terminals WFF 120

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Klippon® Connect with stud Technology

Our stud terminals are an established, robust connection alternative for particularly harsh environments. The extensive accessories and quality workmanship ensure high productivity in planning and installation – and sustainable safety in operation..

General ordering data

| | |
|------------|--|
| Type | WFF 120 |
| Order No. | 102850000 |
| Version | Bolt-type screw terminals, Feed-through terminal, Rated cross-section: 120 mm ² , Threaded stud connection, Direct mounting |
| GTIN (EAN) | 4008190004866 |
| Qty. | 5 pc(s). |

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Technical data**Dimensions and weights**

| | | | |
|--------------------------|----------|-----------------|------------|
| Width | 42 mm | Width (inches) | 1.654 inch |
| Height | 132 mm | Height (inches) | 5.197 inch |
| Depth | 72 mm | Depth (inches) | 2.835 inch |
| Depth including DIN rail | 80.5 mm | Weight | 281.6 g |
| Net weight | 245.13 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 | | |

Rating data IECEx/ATEX

| | | | |
|--------------------------------|---|---------------------------------|---------------------|
| Certificate No. (ATEX) | KEMA98ATEX1684U | Certificate No. (IECEX) | IECEXKEM07.0053U |
| Max. voltage (ATEX) | 1100 V | Current (ATEX) | 234 A |
| Wire cross section max. (ATEX) | 120 mm ² | Max. voltage (IECEX) | 1100 V |
| Current (IECEX) | 234 A | Wire cross section max. (IECEX) | 120 mm ² |
| Operating temperature range | For operating temperature range see EC Design Test Certificate / IEC Ex-Certificate of Conformity | Marking EN 60079-7 | Ex e II |
| Ex 2014/34/EU label | II 2 G D | | |

System specifications

| | | | |
|--|------------|----------------------------------|----|
| Tightening torque (clamping screw for copper conductors) | 10...20 Nm | End cover plate required | No |
| Number of levels | 1 | No. of clamping points per level | 2 |
| Levels cross-connected internally | No | PE connection | No |
| Mounting rail | TS 35 | | |

Additional technical data

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

CSA rating data

| | | | |
|-------------------------------|----------------|-------------------------------|-----------|
| Certificate No. (CSA) | 200039-1244019 | Current size C (CSA) | 310 A |
| Voltage size C (CSA) | 600 V | Wire cross section max. (CSA) | 250 kcmil |
| Wire cross section min. (CSA) | 10 AWG | | |

Conductors for clamping (rated connection)

| | | | |
|--|--------------------------|--|--------------------------|
| 2 x cable lugs DIN 46 234 | 6...120 mm ² | 2 x cable lugs DIN 46 235 | 16...120 mm ² |
| Cable lug to DIN 46234 | 6...150 mm ² | Cable lug to DIN 46235 | 16...150 mm ² |
| Clamping range, rated connection, max. | 150 mm ² | Clamping range, rated connection, min. | 6 mm ² |
| Number of connections | 2 | Stud size for spade connection | M 10 |
| Tightening torque, max. | 20 Nm | Tightening torque, min. | 10 Nm |
| Type of connection | Threaded stud connection | | |

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Technical data**Rating data**

| | | | |
|--|---------------------|---------------------------------|---------|
| Rated cross-section | 120 mm ² | Rated voltage | 1,000 V |
| Rated current | 269 A | Current at maximum wires | 309 A |
| Volume resistance according to IEC 60947-7-x | 0.12 mΩ | Rated impulse withstand voltage | 8 kV |
| Pollution severity | 3 | | |

UL rating data

| | | | |
|---|--------|---|-----------|
| Certificate No. (UR) | E60693 | Conductor size Factory wiring max. (UR) | 250 kcmil |
| Conductor size Factory wiring min. (UR) | 10 AWG | Conductor size Field wiring max. (UR) | 250 kcmil |
| Conductor size Field wiring min. (UR) | 10 AWG | Current size C (UR) | 310 A |
| Voltage size C (UR) | 1000 V | | |

Classifications

| | | | |
|------------|-------------|------------|-------------|
| ETIM 3.0 | EC002020 | ETIM 4.0 | EC002020 |
| ETIM 5.0 | EC002020 | ETIM 6.0 | EC000897 |
| UNSPSC | 30-21-18-01 | 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 | 1000 VDC rated voltage tested. |
| Descriptive text technical data | 1000 V UL and CSA for usage groups B and C: can be used with isolating terminal rails and when using WTW-type partitions. |
| Descriptive text accessories | WAH 120 in blue, order No. 1064680000 |

Approvals

Approvals



ROHS Conform

Downloads

| | |
|---|--|
| Approval/Certificate/Document of Conformity | CFAT_WFF_120.pdf DE_PT1004_20160418_858_ISSUE01.pdf |
| Brochure/Catalogue | CAT 1 TERM 16/17 EN |
| Engineering Data | EPLAN, WSCAD, Zuken E3.S |

Safety noteSafety notice [Safety Information](#)