

WFF 70

Weidmüller Interface GmbH & Co. KG

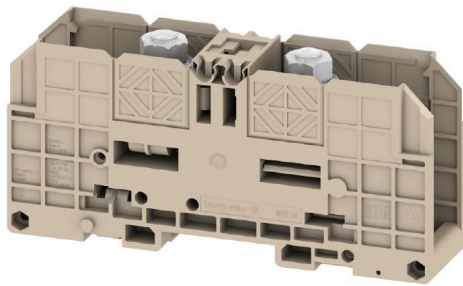
Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Product image



The comprehensive range of stud terminals ensures secure connections for all power transmission applications. Connections range from 10 mm² to 300 mm². The connectors are attached to the threaded pins using crimped cable lugs and each connection is secured by tightening the hexagon nut. Stud terminals with threaded pins from M5 to M16 can be used according to the wire cross-section.

General ordering data

| | |
|------------|--|
| Version | Bolt-type screw terminals, Feed-through terminal, Rated cross-section: 70 mm ² , Threaded stud connection |
| Order No. | 1028400000 |
| Type | WFF 70 |
| GTIN (EAN) | 4008190083311 |
| Qty. | 10 items |

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Technical data

Approvals

Approvals



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

Dimensions and weights

| | | | |
|--------------------------|-------------|----------------|-------------|
| Depth | 61 mm | Depth (inches) | 2.4016 inch |
| Depth including DIN rail | 69.5 mm | Height | 132 mm |
| Height (inches) | 5.1968 inch | Width | 31.8 mm |
| Width (inches) | 1.252 inch | Net weight | 157.46 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 | dark beige |
| UL 94 flammability rating | V-0 | | |

Rating data IECEX/ATEX

| | | | |
|-------------------------|------------------|---------------------------------|--------------------|
| Certificate No. (IECEX) | IECEXULD15.0004U | Max. voltage (IECEX) | 1100 V |
| Current (IECEX) | 192 A | Wire cross section max. (IECEX) | 70 mm ² |
| Marking EN 60079-7 | Ex eb II C Gb | Ex 2014/34/EU label | II 2 G D |

System specifications

| | | | |
|-----------------------------------|-------|-------------------------------------|----|
| End cover plate required | No | Number of potentials | 1 |
| Number of levels | 1 | Number of clamping points per level | 2 |
| Levels cross-connected internally | No | PE connection | No |
| Mounting rail | TS 35 | | |

Additional technical data

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

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CSA rating data

| | | | |
|-------------------------------|--------|-----------------------|----------------|
| Wire cross section max. (CSA) | 00 AWG | Voltage size C (CSA) | 600 V |
| Current size C (CSA) | 170 A | Certificate No. (CSA) | 200039-1244019 |
| Wire cross section min. (CSA) | 14 AWG | | |

Conductors for clamping (rated connection)

| | | | |
|---|--------------------------|---|-------------------------|
| Cable lug to DIN 46234 | 2.5...95 mm ² | Cable lug to DIN 46235 | 16...70 mm ² |
| Wire connection cross section AWG, max. | AWG 3/0 | Connection direction | on side |
| Tightening torque, max. | 12 Nm | Tightening torque, min. | 6 Nm |
| Type of connection | Threaded stud connection | Number of connections | 2 |
| Clamping range, max. | 95 mm ² | Clamping range, min. | 2.5 mm ² |
| Wire connection cross section AWG, min. | AWG 14 | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min. | 2.5 mm ² |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min. | 2.5 mm ² | Wire connection cross section, finely stranded, max. | 95 mm ² |
| Wire connection cross section, finely stranded, min. | 2.5 mm ² | Connection cross-section, stranded, max. | 95 mm ² |
| Connection cross-section, stranded, min. | 2.5 mm ² | Stud size for spade connection | M 8 |
| Wire connection cross-section, solid core, max. | 95 mm ² | Wire connection cross-section, solid core, min. | 2.5 mm ² |
| Connection cross-section, finely stranded, min. | 2.5 mm ² | 2 x cable lugs DIN 46 235 | 16...70 mm ² |
| 2 x cable lugs DIN 46 234 | 2.5...70 mm ² | | |

General

| | | | |
|---|---------------|---|--------|
| Wire connection cross section AWG, max. | AWG 3/0 | Wire connection cross section AWG, min. | AWG 14 |
| Standards | IEC 60947-7-1 | Mounting rail | TS 35 |

Rating data

| | | | |
|--|--------------------|---------------------------------|---------------|
| Rated cross-section | 70 mm ² | Rated voltage | 1000 V |
| Rated DC voltage | 1500 V | Nominal current | 192 A |
| Current at maximum wires | 232 A | Standards | IEC 60947-7-1 |
| Volume resistance according to IEC 60947-7-x | 0.17 mΩ | Rated impulse withstand voltage | 8 kV |
| Power loss in accordance with IEC 60947-7-x | 6.14 W | Pollution severity | 3 |

UL rating data

| | | | |
|---|--------|---|--------|
| Conductor size Factory wiring max. (UR) | 00 AWG | Current size C (UR) | 175 A |
| Voltage size C (UR) | 1000 V | Conductor size Factory wiring min. (UR) | 14 AWG |
| Certificate No. (UR) | E60693 | Conductor size Field wiring min. (UR) | 14 AWG |
| Conductor size Field wiring max. (UR) | 00 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 |

Technical data

| | | | |
|-------------|-------------|-------------|-------------|
| 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 | | |

Drawings

