

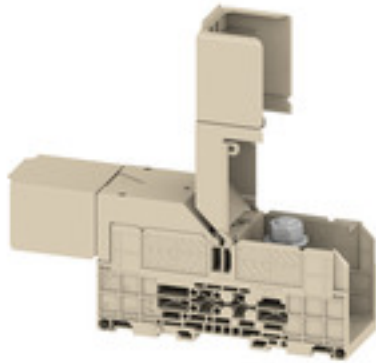
WFF 185/AH**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com



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: 185 mm ² , Threaded stud connection |
| Order No. | 1029600000 |
| Type | WFF 185/AH |
| GTIN (EAN) | 4008190106188 |
| Qty. | 2 pc(s). |

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Technical data

Dimensions and weights

| | | | |
|--------------------------|-------------|----------------|------------|
| Depth | 89.5 mm | Depth (inches) | 3.524 inch |
| Depth including DIN rail | 87 mm | Height | 287 mm |
| Height (inches) | 11.299 inch | Width | 55 mm |
| Width (inches) | 2.165 inch | Net weight | 466.43 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 | dark beige |
| UL 94 flammability rating | V-0 | | |

Rating data IECEx/ATEX

| | | | |
|-----------------------------|---|--------------------|---------------|
| Operating temperature range | For operating temperature range see EC Design Test Certificate / IEC Ex-Certificate of Conformity | 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 levels | 1 |
| Number of clamping points per level | 2 | Levels cross-connected internally | No |
| PE connection | No | Rail | TS 35 |

Additional technical data

| | | | |
|--------------------------|--------|-----------------------------|---------|
| Explosion-tested version | Yes | 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) | 360 A |
| Current size D (CSA) | 5 A | Voltage size C (CSA) | 600 V |
| Voltage size D (CSA) | 600 V | Wire cross section max. (CSA) | 500 kcmil |
| Wire cross section min. (CSA) | 8 AWG | | |

Conductors for clamping (rated connection)

| | | | |
|---------------------------|--------------------------|--------------------------------|--------------------------|
| 2 x cable lugs DIN 46 234 | 10...185 mm ² | 2 x cable lugs DIN 46 235 | 25...185 mm ² |
| Cable lug to DIN 46234 | 10...240 mm ² | Cable lug to DIN 46235 | 25...240 mm ² |
| Clamping range, max. | 240 mm ² | Clamping range, min. | 10 mm ² |
| Number of connections | 2 | Stud size for spade connection | M 12 |
| Tightening torque, max. | 31 Nm | Tightening torque, min. | 14 Nm |
| Type of connection | Threaded stud connection | | |

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Technical data

General

Rail TS 35

Rating data

| | | | |
|---------------------------------|---------------------|--|---------|
| Rated cross-section | 185 mm ² | Rated voltage | 1,000 V |
| Rated DC voltage | 1,500 V | Rated current | 353 A |
| Current at maximum wires | 415 A | Volume resistance according to IEC 60947-7-x | 0.09 mΩ |
| Rated impulse withstand voltage | 8 kV | Power loss in accordance with IEC 60947-7-x | 11.3 W |
| Pollution severity | 3 | | |

UL rating data

| | | | |
|---|--------|---|---------|
| Certificate No. (UR) | E60693 | Conductor size Factory wiring max. (UR) | 500 AWG |
| Conductor size Factory wiring min. (UR) | 8 AWG | Conductor size Field wiring max. (UR) | 500 AWG |
| Conductor size Field wiring min. (UR) | 8 AWG | Current size C (UR) | 380 A |
| Voltage size C (UR) | 1000 V | | |

Classifications

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 6.0 | EC000897 | ETIM 7.0 | EC000897 |
| ETIM 8.0 | EC000897 | ETIM 9.0 | EC000897 |
| ECLASS 9.0 | 27-14-11-20 | ECLASS 9.1 | 27-14-11-20 |
| ECLASS 10.0 | 27-14-11-20 | ECLASS 11.0 | 27-14-11-20 |
| ECLASS 12.0 | 27-14-11-20 | ECLASS 13.0 | 27-25-01-01 |

Environmental Product Compliance

REACH SVHC /

Approvals

Approvals



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

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Technical data

Downloads

| | |
|---|---|
| Approval/Certificate/Document of Conformity | Attestation of Conformity UKCA Ex Attestation of Conformity CB Certificate DNVGL certificate CCC Ex Certificate ATEX Certificate IECEX Certificate UKCA Ex Certificate CE Declaration of Conformity UKCA declaration of conformity Confirmation of Standards EN 45545-2_2020-10 |
| Engineering Data | CAD data – STEP |
| Engineering Data | Zuken E3.S |
| Product Change Notification | PCN WFF |
| User Documentation | Cross Connection Guide StorageConditionsTerminalBlocks WFF range for 1500 VDC applications DIRECT MOUNTING WFF TERMINAL BLOCKS NTI WFF 185 |
| Catalogues | Catalogues in PDF-format |
| Brochures | |

Data sheet

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Drawings



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Accessories

W-Series



Weidmüller's range of products includes end brackets that guarantee a permanent, reliable mounting on the terminal rail and prevent sliding. Versions with and without screws are available. The end brackets include marking options, also for group markers, and also a test plug holder.

General ordering data

| | | |
|------------|----------------------------|--|
| Type | WEW 35/1 | Version |
| Order No. | 1059000000 | End bracket, Wemid, dark beige, Rail: TS 35, when screwed in |
| GTIN (EAN) | 4008190172282 | |
| Qty. | 50 pc(s). | |

Marker holder



The marker holder offer the possibility of additional mounting of standard markers with a pitch of 5 or 5.1 mm. The angled holders can be optionally snapped together and could be mounted in all standard marking channels of the Klippon® Connect modular terminal blocks. Fitting marker types could be found under the respective accessories of the designation marking holder.

General ordering data

| | | |
|------------|----------------------------|----------------------------|
| Type | BZT 1 ZA WS 10/5 | Version |
| Order No. | 1805520000 | Accessories, Marker holder |
| GTIN (EAN) | 4032248270248 | |
| Qty. | 100 pc(s). | |
| Type | BZT 1 WS 10/5 | Version |
| Order No. | 1805490000 | Accessories, Marker holder |
| GTIN (EAN) | 4032248270231 | |
| Qty. | 100 pc(s). | |

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Accessories

WS 12/6.5

**WS/ DEK**

MultiMark terminal markers use an innovative composite material made from two components. The hard base contour of the marker snaps securely into the connector. The elastic surface finish makes the marker easy to mount. This specially punched material enables the strips to be stretched to accommodate the slight variations in spacing that tend to add up, especially with long terminal blocks. Another advantage: the excellent printability of the surface material guarantees durable and wear-resistant labelling. A print resolution of 300 dpi also produces a very legible script.

Your benefits with MultiMark

- Firm hold and durable printing
- Continuous strips save installation time
- Easy mounting thanks to an innovative composite material
- Large label field for optimal legibility
- High flexibility thanks to manufacturer independence

General ordering data

| | | |
|------------|----------------------------|--|
| Type | WS 12/6.5 MM WS | Version |
| Order No. | 2619930000 | WS, Terminal marker, 12 x 6.5 mm, Weidmueller, white |
| GTIN (EAN) | 4050118626155 | |
| Qty. | 600 pc(s). | |

Custom printing

WS markers are the perfect match for the W-series connectors. Thanks to their system compatibility, the WS tags can also be used with the I-series and the Z-series. The large marking surfaces do not only permit long character strings but also multi-line text. WS markers are ideal for labels with long, customised character strings. Thanks to the proven MultiCard format, printing with PrintJet CONNECT oder/or Plotter is possible.

- Can be fitted in strips or individually
- Markers in proven MultiCard format

For custom printing: Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

General ordering data

| | | |
|------------|----------------------------|---|
| Type | WS 12/6.5 MC SDR | Version |
| Order No. | 1609930000 | WS, Terminal marker, 12 x 6.5 mm, Pitch in mm (P): 6.50 |
| GTIN (EAN) | 4008190456665 | Weidmueller, Allen-Bradley, To customer specification |
| Qty. | 108 pc(s). | |

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Accessories

Test plugs



Test adapters and test plugs are used for the electrical connection between terminal blocks and the test equipment. In this way, an electrical contact can be established in the wired state and measurements can be done easily.

General ordering data

| | | |
|------------|----------------------------|-------------------------|
| Type | PS 4 F.STB 4 | Version |
| Order No. | 0299600000 | Test adapter (terminal) |
| GTIN (EAN) | 4008190074043 | |
| Qty. | 20 pc(s). | |

WF/WFF-Series



The additional connection enables a separate voltage tap. This can be used, for example, for the emergency power supply before the main switch or simply as an additional connection within the application.

General ordering data

| | | |
|------------|----------------------------|---------------------------------|
| Type | WZAF 185 | Version |
| Order No. | 1066400000 | Auxiliary connection (terminal) |
| GTIN (EAN) | 4008190031985 | |
| Qty. | 10 pc(s). | |

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Accessories

Standard



Screwable cross-connections are easy to mount and de mount. Thanks to the big contact surface, even high currents can be transmitted with maximum contact reliability.

General ordering data

| | | |
|------------|----------------------------|--|
| Type | WQL 3 WFF185 | Version |
| Order No. | 1065700000 | Bolt-type screw terminals, Cross-connector, Number of poles: 3 |
| GTIN (EAN) | 4008190140885 | |
| Qty. | 5 pc(s). | |
| Type | WQL 2 WFF185 | Version |
| Order No. | 1065200000 | Bolt-type screw terminals, Cross-connector, Number of poles: 2 |
| GTIN (EAN) | 4008190044855 | |
| Qty. | 5 pc(s). | |

Blank



WS markers are the perfect match for the W-series connectors. Thanks to their system compatibility, the WS tags can also be used with the I-series and the Z-series. The large marking surfaces do not only permit long character strings but also multi-line text. WS markers are ideal for labels with long, customised character strings. Thanks to the proven MultiCard format, printing with PrintJet CONNECT oder/or Plotter is possible.

- Can be fitted in strips or individually
- Markers in proven MultiCard format

For custom printing: Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

General ordering data

| | | |
|------------|----------------------------|---|
| Type | WS 12/6.5 MC NE WS | Version |
| Order No. | 1609920000 | WS, Terminal marker, 12 x 6.5 mm, Pitch in mm (P): 6.50 |
| GTIN (EAN) | 4008190203511 | Weidmueller, Allen-Bradley, white |
| Qty. | 540 pc(s). | |

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Accessories

Blank



The Dekafix (DEK) marker is the universal marker for all conductor and plug-in connectors as well as for electronic sub-assemblies. The system is ideal for short number sequences and covers a wide range of ready-printed markers.

Strips for fast installation in only one work step. The printing is easy to read, rich in contrast and available in various widths.

- Large range of ready-to-use markers
- Strips for fast installation
- Terminal markers, suitable for all Weidmüller cable connectors
- Available as blank MultiCard or with standard printing

For custom printing: Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

General ordering data

| | | |
|------------|----------------------------|---|
| Type | DEK 5/5 MC NE WS | Version |
| Order No. | 1609801044 | Dekafix, Terminal marker, 5 x 5 mm, Pitch in mm (P): 5.00 |
| GTIN (EAN) | 4008190397111 | Weidmueller, white |
| Qty. | 1,000 pc(s). | |

Protective covers



Protective covers or protective caps are attached to the respective connection area of the terminal blocks. They provide protection against electric shock caused by accidental contact with live parts due to operation or faults.

General ordering data

| | | |
|------------|----------------------------|---|
| Type | WAH 185/300 BE | Version |
| Order No. | 1064760000 | Bolt-type screw terminals, Hood, beige, 54 mm |
| GTIN (EAN) | 4008190108267 | |
| Qty. | 10 pc(s). | |
| Type | WAH 185/300 BL | Version |
| Order No. | 1064780000 | Bolt-type screw terminals, Hood, blue, 54 mm |
| GTIN (EAN) | 4008190103200 | |
| Qty. | 10 pc(s). | |