

A2C 50/70 3FT-FE-DM**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

To feed through power, signal, and data is the classical requirement in electrical engineering and panel building. The insulating material, the connection system and the design of the terminal blocks are the differentiating features. A feed-through terminal block is suitable for joining and/or connecting one or more conductors. They could have one or more connection levels that are on the same potential or insulated against one another.

General ordering data

| | |
|------------|--|
| Version | Feed-through terminal, PUSH IN, 50 mm ² , 1000 V, 150 A, dark beige |
| Order No. | 2663380000 |
| Type | A2C 50/70 3FT-FE-DM |
| GTIN (EAN) | 4050118895995 |
| Qty. | 1 pc(s). |

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Technical data**Dimensions and weights**

| | | | |
|------------|---------|-----------------|------------|
| Depth | 80.5 mm | Depth (inches) | 3.169 inch |
| Height | 134 mm | Height (inches) | 5.276 inch |
| Width | 80 mm | Width (inches) | 3.15 inch |
| Net weight | 475 g | | |

Temperatures

| | | | |
|----------------------------------|----------------|----------------------------------|--------|
| Storage temperature | -25 °C...55 °C | Continuous operating temp., min. | -60 °C |
| Continuous operating temp., max. | 130 °C | | |

Material data

| | | | |
|--------------------------------|--------|---------------------------|------------|
| Material | Wemid | Colour | dark beige |
| Colour of operational elements | orange | UL 94 flammability rating | V-0 |

System specifications

| | | | |
|-------------------------------|-----------------------|-------------------------------------|----|
| End cover plate required | No | Number of potentials | 4 |
| Number of levels | 1 | Number of clamping points per level | 8 |
| Number of potentials per tier | 4 | Levels cross-connected internally | No |
| Rail | TS 35, Mounting plate | N-function | No |
| PE function | No | PEN function | No |

Additional technical data

| | | | |
|--------------------------|------------------------|----------------|--------|
| Explosion-tested version | Yes | Open sides | closed |
| Snap-on | Yes | Type of fixing | TS 35 |
| Type of mounting | Direct mounting, TS 35 | | |

CSA rating data

| | | | |
|-----------------------|-----------------|-------------------------------|--------|
| Certificate No. (CSA) | 200039-80069332 | Current size B (CSA) | 175 A |
| Current size C (CSA) | 175 A | Current size D (CSA) | 5 A |
| Voltage size B (CSA) | 1000 V | Voltage size C (CSA) | 1000 V |
| Voltage size D (CSA) | 600 V | Wire cross section min. (CSA) | 8 AWG |

Conductors for clamping (additional connection)

Connection type, additional connection PUSH IN

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Technical data**Conductors for clamping (rated connection)**

| | | | |
|---|--------------------|---|--------------------|
| Blade size | 1.0 x 5.5 mm | Clamping range, max. | 70 mm ² |
| Clamping range, min. | 10 mm ² | Connection cross-section, stranded, max. | 70 mm ² |
| Connection cross-section, stranded, min. | 10 mm ² | Connection direction | on side |
| Number of connections | 8 | Stripping length | 30 mm |
| Twin wire-end ferrules, max. | 10 mm ² | Twin wire-end ferrules, min. | 4 mm ² |
| Type of connection | PUSH IN | Wire connection cross section AWG, max. | AWG 2/0 |
| Wire connection cross section AWG, min. | AWG 8 | Wire connection cross section, finely stranded, max. | 70 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, max. | 50 mm ² |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min. | 10 mm ² | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max. | 50 mm ² |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min. | 10 mm ² | Wire connection cross-section, solid core, max. | 16 mm ² |
| Wire connection cross-section, solid core, min. | 10 mm ² | | |

General

| | | | |
|---|-----------------------|---|---------------|
| Rail | TS 35, Mounting plate | Standards | IEC 60947-7-1 |
| Wire connection cross section AWG, max. | AWG 2/0 | Wire connection cross section AWG, min. | AWG 8 |

Rating data

| | | | |
|--|--------------------|---------------------------------|---------------|
| Rated cross-section | 50 mm ² | Rated voltage | 1,000 V |
| Rated DC voltage | 1,500 V | Rated current | 150 A |
| Current at maximum wires | 150 A | Standards | IEC 60947-7-1 |
| Volume resistance according to IEC 60947-7-x | 0.21 mΩ | Rated impulse withstand voltage | 8 kV |
| Power loss in accordance with IEC 60947-7-x | 4.8 W | Pollution severity | 3 |
| Surge voltage category | III | | |

UL rating data

| | | | |
|--|--------|--|--------|
| Certificate No. (cURus) | E60693 | Conductor size Factory wiring max. (cURus) | 00 AWG |
| Conductor size Factory wiring min. (cURus) | 8 AWG | Conductor size Field wiring max. (cURus) | 00 AWG |
| Conductor size Field wiring min. (cURus) | 8 AWG | Current size B (cURus) | 175 A |
| Current size C (cURus) | 175 A | Current size D (cURus) | 5 A |
| Voltage size B (cURus) | 1000 V | Voltage size C (cURus) | 1000 V |
| Voltage size D (cURus) | 600 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 |

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www.weidmueller.com**Technical data****Important note**

| | |
|---------------------|---|
| Product information | The max. connectable wire reduces by one wire size if a cross connector is used that has to be mounted in the wire entry. |
|---------------------|---|

Approvals

Approvals



| | |
|-------------------------|------------|
| UL File Number Search | UL Website |
| Certificate No. (cURus) | E60693 |

Downloads

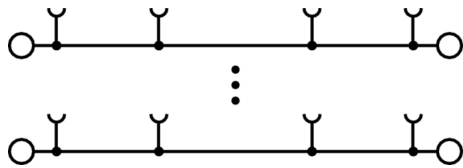
| | |
|---|--|
| Approval/Certificate/Document of Conformity | Attestation of Conformity UKCA Ex Attestation of Conformity IECEX Certificate ATEX Certificate DNVGL certificate CB Testreport CB Certificate UKCA Ex Certificate CE Declaration of Conformity UKCA declaration of conformity Confirmation of Standards EN 45545-2_2020-10 |
| Engineering Data | CAD data – STEP |
| User Documentation | Instruction sheet User Manual A2C 50-185 NTI A2C 50/70 |
| Catalogues | Catalogues in PDF-format |

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Drawings



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Accessories

WS 8/16



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-A 8/16 MM WS | Version |
| Order No. | 2619910000 | WS, Terminal marker, 8 x 16 mm, Weidmueller, white |
| GTIN (EAN) | 4050118626179 | |
| Qty. | 200 pc(s). | |

A-Series



Power feed-in

Our wide range of W-Series terminal blocks with our WPD main line branch terminals, which are optimised to guarantee both convenience and space gains, ensures a secure and convenient connection at the power feed-in.

General ordering data

| | | |
|------------|----------------------------|--|
| Type | AAM 35-185 YE FLASH | Version |
| Order No. | 2635600000 | Terminal marker, 23.5 x 12 mm, Pitch in mm (P): 12.00 yellow |
| GTIN (EAN) | 4050118674545 | |
| Qty. | 40 pc(s). | |

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Accessories

Slotted screwdriver



Slotted screwdriver with rounded blade SD DIN 5265, ISO 2380/2, output to DIN 5264, ISO 2380/1. ChromTop tip, SoftFinish grip

General ordering data

| | | |
|------------|----------------------------|---|
| Type | SDS 1.0X5.5X150 | Version |
| Order No. | 2749380000 | Screwdriver, Blade width (B): 5.5 mm, Blade length: 150 mm, Blade |
| GTIN (EAN) | 4050118895605 | thickness (A): 1 mm |
| Qty. | 1 pc(s). | |

A-Series



Power feed-in

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General ordering data

| | | |
|------------|----------------------------|---|
| Type | AAC 50-185 2X10 BL | Version |
| Order No. | 2663430000 | Auxiliary connection (terminal), 10 mm², Number of connections: 2 |
| GTIN (EAN) | 4064675027973 | |
| Qty. | 5 pc(s). | |
| Type | AAC 50-185 2X10 BK-YL | Version |
| Order No. | 2663450000 | Auxiliary connection (terminal), 10 mm², Number of connections: 2 |
| GTIN (EAN) | 4064675027997 | |
| Qty. | 5 pc(s). | |
| Type | AAC 50-185 2X10 | Version |
| Order No. | 2663420000 | Auxiliary connection (terminal), 10 mm², Number of connections: 2 |
| GTIN (EAN) | 4064675027966 | |
| Qty. | 5 pc(s). | |
| Type | AAC 50-185 2X10 GN-YL | Version |
| Order No. | 2663440000 | Auxiliary connection (terminal), 10 mm², Number of connections: 2 |
| GTIN (EAN) | 4064675027980 | |
| Qty. | 5 pc(s). | |

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Accessories

A-Series



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 | ATPG 1.5-10 L | Version |
| Order No. | 1991890000 | Test adapter (terminal), 1.5 mm ² , 250 V, 0.2 A |
| GTIN (EAN) | 4050118376647 | |
| Qty. | 50 pc(s). | |

50/70 mm²

Power feed-in

Our wide range of W-Series terminal blocks with our WPD main line branch terminals, which are optimised to guarantee both convenience and space gains, ensures a secure and convenient connection at the power feed-in.

General ordering data

| | | |
|------------|----------------------------|--|
| Type | ZQV 50/70N/2 | Version |
| Order No. | 2663400000 | Cross-connector (terminal), Plugged, Number of poles: 2, Pitch in mm |
| GTIN (EAN) | 4064675266198 | (P): 20.00, Insulated: Yes, 150 A, orange |
| Qty. | 10 pc(s). | |

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www.weidmueller.com**Accessories****Additional accessories****No task is too small when creating the perfect solution.**

Connections form just one part of the overall process. Small details are often the key to the perfect solution in applications where potentials are tested, grouped or even isolated.

A system is not a system without small but essential details:

- Test plugs ensure reliable pick-up from diagnostic sockets

In tandem with the manufacturing process and application.

General ordering data

| Type | PS 2.0 MC | Version | Product data | Packaging |
|------------|----------------------------|--|--------------|-----------|
| Order No. | 0310000000 | PCB plug-in connector, Accessories, Test plug, red, Number of poles: 1 | | Box |
| GTIN (EAN) | 4008190000059 | | | |
| Qty. | 20 pc(s). | | | |

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Drawings

