

**A2C 50/70 PE****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)

A protective feed through terminal block is an electrical conductor for the purpose of safety and is used in many applications. To establish the electrical and mechanical connection between copper conductors and the mounting support plate, PE terminal blocks are used. They have one or more contact points for connection with and/or bifurcation of protective earth conductors.

**General ordering data**

|            |                                                         |
|------------|---------------------------------------------------------|
| Version    | PE terminal, PUSH IN, 50 mm <sup>2</sup> , Green/yellow |
| Order No.  | <a href="#">2663280000</a>                              |
| Type       | A2C 50/70 PE                                            |
| GTIN (EAN) | 4050118831283                                           |
| Qty.       | 5 pc(s).                                                |

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**Technical data****Dimensions and weights**

|            |          |                 |            |
|------------|----------|-----------------|------------|
| Depth      | 80.5 mm  | Depth (inches)  | 3.169 inch |
| Height     | 101.5 mm | Height (inches) | 3.996 inch |
| Width      | 20 mm    | Width (inches)  | 0.787 inch |
| Net weight | 154.28 g |                 |            |

**Temperatures**

|                                  |                |                                  |               |
|----------------------------------|----------------|----------------------------------|---------------|
| Storage temperature              | -25 °C...55 °C | Ambient temperature              | -5 °C...40 °C |
| Continuous operating temp., min. | -60 °C         | Continuous operating temp., max. | 130 °C        |

**Material data**

|                                |        |                           |              |
|--------------------------------|--------|---------------------------|--------------|
| Material                       | Wemid  | Colour                    | Green/yellow |
| Colour of operational elements | orange | UL 94 flammability rating | V-0          |

**Rating data IECEx/ATEX**

|                                |                    |                                 |                    |
|--------------------------------|--------------------|---------------------------------|--------------------|
| Certificate No. (ATEX)         | TUEV16ATEX7909U    | Certificate No. (IECEX)         | IECEXTUR16.0036U   |
| Wire cross section max. (ATEX) | 70 mm <sup>2</sup> | Wire cross section max. (IECEX) | 70 mm <sup>2</sup> |

**System specifications**

|                               |       |                                     |     |
|-------------------------------|-------|-------------------------------------|-----|
| End cover plate required      | No    | Number of potentials                | 1   |
| Number of levels              | 1     | Number of clamping points per level | 2   |
| Number of potentials per tier | 1     | Levels cross-connected internally   | No  |
| Rail                          | TS 35 | N-function                          | No  |
| PE function                   | Yes   | PEN function                        | Yes |

**Additional technical data**

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

**CSA rating data**

|                               |                 |                      |        |
|-------------------------------|-----------------|----------------------|--------|
| Certificate No. (CSA)         | 200039-80069332 | 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 <sup>2</sup> |
| Clamping range, min.                                                                    | 10 mm <sup>2</sup> | Connection cross-section, stranded, max.                                                | 70 mm <sup>2</sup> |
| Connection cross-section, stranded, min.                                                | 10 mm <sup>2</sup> | Connection direction                                                                    | on side            |
| Number of connections                                                                   | 2                  | Stripping length                                                                        | 30 mm              |
| 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 <sup>2</sup> |
| Wire connection cross section, finely stranded, min.                                    | 10 mm <sup>2</sup> | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max. | 50 mm <sup>2</sup> |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min. | 10 mm <sup>2</sup> | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max. | 50 mm <sup>2</sup> |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min. | 10 mm <sup>2</sup> | Wire connection cross-section, solid core, max.                                         | 16 mm <sup>2</sup> |
| Wire connection cross-section, solid core, min.                                         | 10 mm <sup>2</sup> |                                                                                         |                    |

**General**

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

**Rating data**

|                                              |                    |                                                      |               |
|----------------------------------------------|--------------------|------------------------------------------------------|---------------|
| Rated cross-section                          | 50 mm <sup>2</sup> | Rated voltage to adjoining terminal                  | 1,000 V       |
| Rated DC voltage                             | 1,500 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          |
| 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  | Voltage size B (cURus)                     | 1000 V |
| Voltage size C (cURus)                     | 1000 V | Voltage size D (cURus)                     | 600 V  |
| Wire cross section max. (cURus)            | 00 AWG | Wire cross section min. (cURus)            | 8 AWG  |

**Classifications**

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC000901    | ETIM 7.0    | EC000901    |
| ETIM 8.0    | EC000901    | ETIM 9.0    | EC000901    |
| ETIM 10.0   | EC000901    | ECLASS 9.0  | 27-14-11-41 |
| ECLASS 9.1  | 27-14-11-41 | ECLASS 10.0 | 27-14-11-41 |
| ECLASS 11.0 | 27-14-11-41 | ECLASS 12.0 | 27-14-11-41 |
| ECLASS 13.0 | 27-25-01-03 | ECLASS 14.0 | 27-25-01-03 |
| ECLASS 15.0 | 27-25-01-03 |             |             |

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## Technical data

## Environmental Product Compliance

|                        |                             |
|------------------------|-----------------------------|
| RoHS Compliance Status | Compliant without exemption |
| REACH SVHC             | No SVHC above 0.1 wt%       |

## Approvals

Approvals



|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approvals MAMID | <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319217/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319217/-T1z1mm-S800/</a> <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/</a> <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319226/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319226/-T1z1mm-S800/</a> <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319230/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319230/-T1z1mm-S800/</a> <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319234/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319234/-T1z1mm-S800/</a> <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319240/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319240/-T1z1mm-S800/</a> <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319244/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319244/-T1z1mm-S800/</a> <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319213/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319213/-T1z1mm-S800/</a> <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319260/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319260/-T1z1mm-S800/</a> |
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|                         |            |
|-------------------------|------------|
| ROHS                    | Conform    |
| UL File Number Search   | UL Website |
| Certificate No. (cURus) | E60693     |

## Downloads

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

## A2C 50/70 PE

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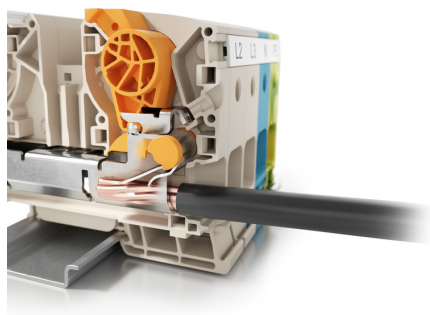
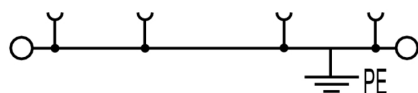
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## Drawings



## A2C 50/70 PE

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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.  | <a href="#">2619910000</a> | WS, Terminal marker, 8 x 16 mm, Weidmueller, white |
| GTIN (EAN) | 4050118626179              |                                                    |
| Qty.       | 200 pc(s).                 |                                                    |

## A-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       | AEB 35 SCL/1 V0 BK         | Version               |
| Order No.  | <a href="#">2661300000</a> | A-series, End bracket |
| GTIN (EAN) | 4050118702187              |                       |
| Qty.       | 20 pc(s).                  |                       |
| Type       | AEB 35 SCL/1 V0            | Version               |
| Order No.  | <a href="#">2661280000</a> | A-series, End bracket |
| GTIN (EAN) | 4050118702163              |                       |
| Qty.       | 20 pc(s).                  |                       |

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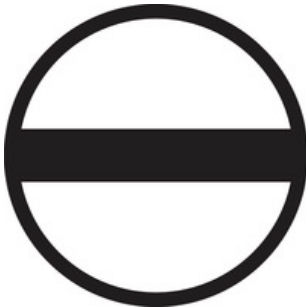
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|            |                            |                       |
|------------|----------------------------|-----------------------|
| Type       | AEB 35 SCL/1 V0 GY         | Version               |
| Order No.  | <a href="#">2661290000</a> | A-series, End bracket |
| GTIN (EAN) | 4050118702170              |                       |
| Qty.       | 20 pc(s).                  |                       |

**Slotted screwdriver**

VDE insulated screwdriver sets, for working on live parts up to 1000 V AC and 1500 V DC, DIN EN 60900. IEC 900. Each piece is "GS" safety tested. Blade made from fully hardened, high-alloy chromium-vanadium-molybdenum steel, gun-metal finish.

**General ordering data**

|            |                            |                                                                     |
|------------|----------------------------|---------------------------------------------------------------------|
| Type       | SDIS SLIM 0.6X3.5X100      | Version                                                             |
| Order No.  | <a href="#">2749610000</a> | Mounting tool, Blade width (B): 3.5 mm, Blade length: 100 mm, Blade |
| GTIN (EAN) | 4050118896350              | thickness (A): 0.6 mm                                               |
| Qty.       | 1 pc(s).                   |                                                                     |

**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.  | <a href="#">2749380000</a> | Screwdriver, Blade width (B): 5.5 mm, Blade length: 150 mm, Blade |
| GTIN (EAN) | 4050118895605              | thickness (A): 1 mm                                               |
| Qty.       | 1 pc(s).                   |                                                                   |