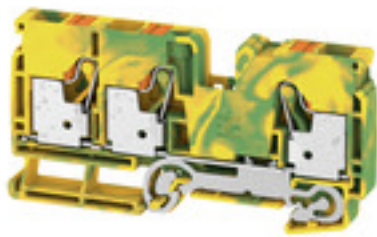


**A3C 10 PE****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)**Product image**

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, 10 mm <sup>2</sup> , 1000 V, Green/yellow |
| Order No.  | <a href="#">2490590000</a>                                      |
| Type       | A3C 10 PE   |
| GTIN (EAN) | 4050118500929   |
| Qty.       | 25 pc(s).   |

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

|                          |            |                |            |
|--------------------------|------------|----------------|------------|
| Depth                    | 51.5 mm    | Depth (inches) | 2.028 inch |
| Depth including DIN rail | 52.5 mm    | Height         | 102 mm     |
| Height (inches)          | 4.016 inch | Width          | 10 mm      |
| Width (inches)           | 0.394 inch | Net weight     | 49.944 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                    | Green/yellow |
| Colour of operational elements | orange | UL 94 flammability rating | V-0          |

**Rating data IECEx/ATEX**

|                    |               |                     |          |
|--------------------|---------------|---------------------|----------|
| Marking EN 60079-7 | Ex eb II C Gb | Ex 2014/34/EU label | II 2 G D |
|--------------------|---------------|---------------------|----------|

**System specifications**

|                               |       |                                     |     |
|-------------------------------|-------|-------------------------------------|-----|
| End cover plate required      | Yes   | Number of potentials                | 1   |
| Number of levels              | 1     | Number of clamping points per level | 3   |
| Number of potentials per tier | 1     | PE connection                       | Yes |
| Rail                          | TS 35 | PE function                         | Yes |
| PEN function                  | Yes   |                                     |     |

**Additional technical data**

|                     |       |                   |         |
|---------------------|-------|-------------------|---------|
| Installation advice | Rail  | Open sides        | right   |
| Snap-on             | No    | Type of fixing    | Snap-on |
| Type of mounting    | TS 35 | With snap-in pegs | No      |

**CSA rating data**

|                               |                 |                               |        |
|-------------------------------|-----------------|-------------------------------|--------|
| Certificate No. (CSA)         | 200039-70089609 | Voltage size B (CSA)          | 600 V  |
| Voltage size C (CSA)          | 600 V           | Voltage size D (CSA)          | 600 V  |
| Wire cross section max. (CSA) | 6 AWG           | Wire cross section min. (CSA) | 20 AWG |

**Conductors for clamping (additional connection)**

Connection type, additional connection PUSH IN

**Conductors for clamping (rated connection)**

|  |                     |
|--|---------------------|
| Blade size                               | 1.0 x 5.5 mm        |
| Clamping range, max.                     | 16 mm <sup>2</sup>  |
| Clamping range, min.                     | 0.5 mm <sup>2</sup> |
| Connection cross-section, stranded, max. | 16 mm <sup>2</sup>  |
| Connection cross-section, stranded, min. | 0.5 mm <sup>2</sup> |
| Connection direction                     | top                 |
| Gauge to IEC 60947-1                     | A6                  |
| Number of connections                    | 3                   |
| Stripping length                         | 18 mm               |

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**Technical data**

|   |  |         |                      |
|---|--|---------|----------------------|
| Tube length for twin wire-end ferrule   | Cross-section for conductor connection | min.    | 0.75 mm <sup>2</sup> |
|   |  | max.    | 1 mm <sup>2</sup>    |
|   | Tube length                            | nominal | 18 mm                |
|   | Cross-section for conductor connection | min.    | 1.5 mm <sup>2</sup>  |
| Tube length for wire-end ferrule with plastic collar DIN 46228/4                        |  | max.    | 4 mm <sup>2</sup>    |
|   | Tube length                            | min.    | 12 mm                |
|   |  | max.    | 18 mm                |
|   | Cross-section for conductor connection | min.    | 1.5 mm <sup>2</sup>  |
| Tube length for wire-end ferrule without plastic collar DIN 46228/1                     |  | max.    | 4 mm <sup>2</sup>    |
|   | Tube length                            | min.    | 18 mm                |
|   |  | max.    | 10 mm <sup>2</sup>   |
|   | Cross-section for conductor connection | min.    | 6 mm <sup>2</sup>    |
| Tube length for wire-end ferrule without plastic collar DIN 46228/1                     |  | max.    | 10 mm <sup>2</sup>   |
|   | Tube length                            | min.    | 12 mm                |
|   |  | max.    | 18 mm                |
|   | Cross-section for conductor connection | min.    | 1.5 mm <sup>2</sup>  |
| Tube length for wire-end ferrule without plastic collar DIN 46228/1                     |  | max.    | 10 mm <sup>2</sup>   |
|   | Tube length                            | nominal | 18 mm                |
|   |  |         |                      |
|   |  |         |                      |
| Twin wire-end ferrules, max.  | 4 mm <sup>2</sup>                      |         |                      |
| Twin wire-end ferrules, min.  | 0.5 mm <sup>2</sup>                    |         |                      |
| Type of connection  | PUSH IN                                |         |                      |
| Wire connection cross section AWG, max.   | AWG 6                                  |         |                      |
| Wire connection cross section AWG, min.   | AWG 18                                 |         |                      |
| Wire connection cross section, finely stranded, max.                                    | 16 mm <sup>2</sup>                     |         |                      |
| Wire connection cross section, finely stranded, min.                                    | 0.5 mm <sup>2</sup>                    |         |                      |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max. | 10 mm <sup>2</sup>                     |         |                      |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min. | 0.5 mm <sup>2</sup>                    |         |                      |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max. | 10 mm <sup>2</sup>                     |         |                      |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min. | 0.5 mm <sup>2</sup>                    |         |                      |
| Wire connection cross-section, solid core, max.   | 10 mm <sup>2</sup>                     |         |                      |
| Wire connection cross-section, solid core, min.   | 0.5 mm <sup>2</sup>                    |         |                      |

**General**

|   |               |   |       |
|---|---------------|---|-------|
| Installation advice                     | Rail          | Rail                                    | TS 35 |
| Standards                               | IEC 60947-7-2 | Wire connection cross section AWG, max. | AWG 6 |
| Wire connection cross section AWG, min. | AWG 18        |   |       |

**PE rating data**

|                          |                              |              |     |
|--------------------------|------------------------------|--------------|-----|
| Rated short-time current | 1200 A (10 mm <sup>2</sup> ) | PEN function | Yes |
|--------------------------|------------------------------|--------------|-----|

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## Technical data

## Rating data

|                                     |                    |  |         |
|-------------------------------------|--------------------|--|---------|
| Rated cross-section                 | 10 mm <sup>2</sup> | Rated voltage                                | 1,000 V |
| Rated voltage to adjoining terminal | 1,000 V            | Rated DC voltage                             | 1,000 V |
| Standards                           | IEC 60947-7-2      | Volume resistance according to IEC 60947-7-x | 0.56 mΩ |
| Rated impulse withstand voltage     | 8 kV               | Power loss in accordance with IEC 60947-7-x  | 1.82 W  |
| Pollution severity                  | 3                  | Surge voltage category                       | III     |

## UL rating data

|  |        |  |       |
|--|--------|--|-------|
| Certificate No. (cURus)                    | E60693 | Conductor size Factory wiring max. (cURus) | 6 AWG |
| Conductor size Factory wiring min. (cURus) | 20 AWG | Conductor size Field wiring max. (cURus)   | 6 AWG |
| Conductor size Field wiring min. (cURus)   | 20 AWG | Voltage size B (cURus)                     | 600 V |
| Voltage size C (cURus)                     | 600 V  | Voltage size D (cURus)                     | 600 V |

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC000901    | ETIM 7.0    | EC000901    |
| ETIM 8.0    | EC000901    | ETIM 9.0    | 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 |

## Approvals

Approvals



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

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[www.weidmueller.com](http://www.weidmueller.com)**Technical data****Downloads**

|   |  |
|---|--|
| Approval/Certificate/Document of Conformity | <a href="#">Attestation of Conformity</a>                    |
|   | <a href="#">UKCA Ex Attestation of Conformity</a>            |
|   | <a href="#">IECEX Certificate</a>                            |
|   | <a href="#">ATEX Certificate</a>                             |
|   | <a href="#">DNVGL certificate</a>                            |
|   | <a href="#">CCC Ex Certificate</a>                           |
|   | <a href="#">UKCA Ex Certificate</a>                          |
|   | <a href="#">CE Declaration of Conformity</a>                 |
|   | <a href="#">UKCA declaration of conformity</a>               |
| Engineering Data                            | <a href="#">Confirmation of Standards EN 45545-2_2020-10</a> |
|   | <a href="#">CAD data – STEP</a>                              |
| Tender specification                        | <a href="#">Klippon® Connect 2490590000 DE</a>               |
|   | <a href="#">Klippon® Connect 2490590000 EN</a>               |
| User Documentation                          | <a href="#">StorageConditionsTerminalBlocks</a>              |
|   | <a href="#">NTI A3C 10</a>                                   |
|   | <a href="#">User Manual AXC PE</a>                           |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>                     |

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## Drawings

