

**SET AAP12 10/2.5/10C****Weidmüller Interfaces GmbH & Co. KG**

Postfach 3030

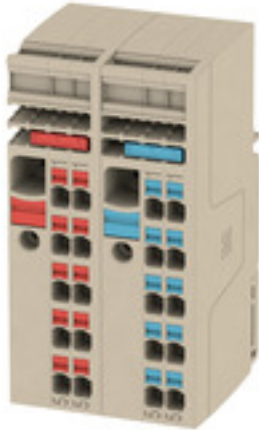
32760 Detmold

Tel. +49 5231 14-0

Fax. +49 5231 14-2083

info@weidmueller.com

www.weidmueller.com

**Product image**

The unique modular concept can be tailored to every type of machine. The potential distribution terminal blocks AAP are successful thanks to their uniform design with two possible constructions – alternating or grouped. In the grouped structure of the control voltage distribution, the potentials are located on different terminal blocks and thus form entire potential blocks.

**General ordering data**

|            |   |
|------------|---|
| Version    | Modular distribution terminals, PUSH IN, 10 mm <sup>2</sup> , 800 V, 48 A, dark beige |
| Order No.  | <a href="#">2506350000</a>  |
| Type       | SET AAP12 10/2.5/10C  |
| GTIN (EAN) | 4050118520736   |
| Qty.       | 1 pc(s).  |

## SET AAP12 10/2.5/10C

Weidmüller Interfaces GmbH &amp; Co. KG

Postfach 3030

32760 Detmold

Tel. +49 5231 14-0

Fax. +49 5231 14-2083

info@weidmuller.com

www.weidmuller.com

## Technical data

## Dimensions and weights

|                          |            |                |            |
|--------------------------|------------|----------------|------------|
| Depth                    | 53.5 mm    | Depth (inches) | 2.106 inch |
| Depth including DIN rail | 54 mm      | Height         | 89 mm      |
| Height (inches)          | 3.504 inch | Width          | 45.2 mm    |
| Width (inches)           | 1.78 inch  | Net weight     | 107.347 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 | red   | UL 94 flammability rating | V-0        |

## Rating data IECEx/ATEX

|                    |               |                     |          |
|--------------------|---------------|---------------------|----------|
| Marking EN 60079-7 | Ex ec II C Gc | 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 | 10    |
| Number of potentials per tier | 1  | Levels cross-connected internally   | No    |
| PE connection                 | No | Rail                                | TS 35 |
| N-function                    | No | PE function                         | No    |
| PEN function                  | No |                                     |       |

## Additional technical data

|                     |         |                  |       |
|---------------------|---------|------------------|-------|
| Installation advice | Rail    | Open sides       | right |
| Type of fixing      | Snap-on | Type of mounting | TS 35 |

## Conductors for clamping (additional connection)

|   |                     |   |                     |
|---|---------------------|---|---------------------|
| Blade size, additional connection   | 0.6 x 3.5 mm        | Clamping range, further connection, max.  | 2.5 mm <sup>2</sup> |
| Clamping range, further connection, min.  | 0.5 mm <sup>2</sup> | Conductor cross-section, flexible plus plastic collar DIN 46228/1, further connection, max. | 2.5 mm <sup>2</sup> |
| Conductor cross-section, flexible plus plastic collar DIN 46228/1, further connection, min. | 0.5 mm <sup>2</sup> | Conductor cross-section, flexible, further connection, min.                                 | 0.5 mm <sup>2</sup> |
| Connection direction  | top                 | Connection type, additional connection  | PUSH IN             |
| Cross-section for connected wire, AWG, additional connection, max.                          | AWG 12              | Cross-section for connected wire, AWG, additional connection, min.                          | AWG 28              |
| Cross-section for connected wire, flexible, further connection, max.                        | 2.5 mm <sup>2</sup> | Cross-section for connected wire, multi-core, further connection, max.                      | 2.5 mm <sup>2</sup> |
| Cross-section for connected wire, multi-core, further connection, min.                      | 0.5 mm <sup>2</sup> | Cross-section for connected wire, solid-core, further connection, max.                      | 2.5 mm <sup>2</sup> |
| Cross-section for connected wire, solid-core, further connection, min.                      | 0.5 mm <sup>2</sup> | Rated cross-section, further connection   | 2.5 mm <sup>2</sup> |
| Stripping length, additional connection   | 10 mm               |   |                     |

## SET AAP12 10/2.5/10C

Weidmüller Interfaces GmbH & Co. KG

Postfach 3030

32760 Detmold

Tel. +49 5231 14-0

Fax. +49 5231 14-2083

## Technical data

info@weidmueller.com

www.weidmueller.com

### Conductors for clamping (rated connection)

|   |  |                     |                      |
|---|--|---------------------|----------------------|
| Blade size  | 1.0 x 5.5 mm                           |                     |                      |
| Clamping range, max.  | 10 mm <sup>2</sup>                     |                     |                      |
| Clamping range, min.  | 0.5 mm <sup>2</sup>                    |                     |                      |
| Connection cross-section, stranded, max.  | 10 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   | 2                                      |                     |                      |
| Stripping length  | 18 mm                                  |                     |                      |
| Tube length for twin wire-end ferrule   | Tube length                            | nominal             | 18 mm                |
|   | Cross-section for conductor connection | min.                | 0.75 mm <sup>2</sup> |
|   |  | max.                | 1 mm <sup>2</sup>    |
|   | Tube length                            | min.                | 12 mm                |
| max.  |  | 18 mm               |                      |
| Tube length for wire-end ferrule with plastic collar DIN 46228/4                        | Cross-section for conductor connection | min.                | 1.5 mm <sup>2</sup>  |
|   |  | 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>   |                      |
|   | max.                                   | 10 mm <sup>2</sup>  |                      |
| Tube length for wire-end ferrule without plastic collar DIN 46228/1                     | Cross-section for conductor connection | min.                | 1.5 mm <sup>2</sup>  |
|   |  | 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> |                      |
|   | 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> |                      |
|   | max.                                   | 10 mm <sup>2</sup>  |                      |
| Tube length   | min.                                   | 12 mm               |                      |
|   | max.                                   | 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 20                                 |                     |                      |
| Wire connection cross section, finely stranded, max.                                    | 10 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>                    |                     |                      |

Creation date March 13, 2023 9:02:32 AM CET

Catalogue status 03.03.2023 / We reserve the right to make technical changes.

## SET AAP12 10/2.5/10C

Weidmüller Interfaces GmbH &amp; Co. KG

Postfach 3030

32760 Detmold

Tel. +49 5231 14-0

Fax. +49 5231 14-2083

info@weidmueller.com

## Technical data

## General

|   |                                  |   |                     |
|---|----------------------------------|---|---------------------|
| Installation advice                     | Rail                             | Rail                                    | www.weidmueller.com |
| Standards                               | In accordance with IEC 60947-7-1 | Wire connection cross section AWG, max. | AWG 6               |
| Wire connection cross section AWG, min. | AWG 20                           |   |                     |

## Rating data

|                                 |                                  |  |         |
|---------------------------------|----------------------------------|--|---------|
| Rated cross-section             | 10 mm <sup>2</sup>               | Rated voltage                                | 800 V   |
| Rated current                   | 48 A                             | Current at maximum wires                     | 48 A    |
| Standards                       | In accordance with IEC 60947-7-1 | 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                                |  |         |

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC001284    | ETIM 7.0    | EC001284    |
| ETIM 8.0    | EC001284    | ECLASS 9.0  | 27-14-11-06 |
| ECLASS 9.1  | 27-14-11-06 | ECLASS 10.0 | 27-14-11-06 |
| ECLASS 11.0 | 27-14-11-06 | ECLASS 12.0 | 27-14-11-06 |

## Approvals

Approvals



## Downloads

|   |   |
|---|---|
| Approval/Certificate/Document of Conformity | <a href="#">DE_PT0205_20180316_015_ISSUE01.pdf</a><br><a href="#">DNVGL certificate</a><br><a href="#">UKCA declaration of conformity</a> |
| Engineering Data                            | <a href="#">CAD data – STEP</a>   |
| User Documentation                          | <a href="#">StorageConditionsTerminalBlocks</a><br><a href="#">BPZL AXC 1.5-16</a>  |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>  |

**SET AAP12 10/2.5/10C**

**Weidmüller Interfaces GmbH & Co. KG**

Postfach 3030

32760 Detmold

Tel. +49 5231 14-0

Fax. +49 5231 14-2083

[info@weidmueller.com](mailto:info@weidmueller.com)

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

**Drawings**

