

**AAP12 10/4X2.5 LO-LI OR**

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 26  
D-32758 Detmold  
Germany

[www.weidmueller.com](http://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, 57 A, dark beige |
| Order No.  | <a href="#">2503890000</a>  |
| Type       | AAP12 10/4X2.5 LO-LI OR   |
| GTIN (EAN) | 4050118517569   |
| Qty.       | 20 pc(s).   |

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Catalogue status 18.08.2023 / We reserve the right to make technical changes.

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## 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          | 10 mm      |
| Width (inches)           | 0.394 inch | Net weight     | 31.093 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        |

### 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      | Yes   | Number of potentials                | 1  |
| Number of levels              | 1     | Number of clamping points per level | 5  |
| Number of potentials per tier | 1     | 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 |

### CSA rating data

|                               |                 |                               |       |
|-------------------------------|-----------------|-------------------------------|-------|
| Certificate No. (CSA)         | 200039-70089609 | Current size B (CSA)          | 55 A  |
| Current size C (CSA)          | 55 A            | Current size D (CSA)          | 5 A   |
| 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) | 28 AWG          |                               |       |

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**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.  | 0.14 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, 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>  | Number of connections, additional connection  | 4                   |
| Rated cross-section, further connection   | 2.5 mm <sup>2</sup>  | Rated current, additional connection  | 24 A                |
| Stripping length, additional connection   | 10 mm                |   |                     |

**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   | 1                                      |                    |                      |
| Stripping length  | 18 mm                                  |                    |                      |
| 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.               | 18 mm                |
|   | 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 | Tube length                            | max.               | 18 mm                |
|   |  | min.               | 12 mm                |
|   | Tube length                            | nominal            | 18 mm                |
|   | Cross-section for conductor connection | min.               | 1.5 mm <sup>2</sup>  |
|   | max.                                   | 10 mm <sup>2</sup> |                      |
| 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, finely stranded, max.                | 10 mm <sup>2</sup>                     |                    |                      |
| Wire connection cross section, finely stranded, min.                | 0.5 mm <sup>2</sup>                    |                    |                      |

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|   |                     |
|---|---------------------|
| 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 60947-7-1 |      |       |

### Rating data

|                                 |                    |  |         |
|---------------------------------|--------------------|--|---------|
| Rated cross-section             | 10 mm <sup>2</sup> | Rated voltage                                | 800 V   |
| Rated current                   | 57 A               | Current at maximum wires                     | 57 A    |
| Standards                       | 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                  |  |         |

### UL rating data

|  |        |  |       |
|--|--------|--|-------|
| Certificate No. (cURus)                    | E60693 | Conductor size Factory wiring max. (cURus) | 6 AWG |
| Conductor size Factory wiring min. (cURus) | 28 AWG | Conductor size Field wiring max. (cURus)   | 6 AWG |
| Conductor size Field wiring min. (cURus)   | 28 AWG | Current size B (cURus)                     | 55 A  |
| Current size C (cURus)                     | 55 A   | Current size D (cURus)                     | 5 A   |
| Voltage size B (cURus)                     | 600 V  | Voltage size C (cURus)                     | 600 V |
| Voltage size D (cURus)                     | 600 V  |  |       |

### Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC000897    | ETIM 7.0    | EC000897    |
| ETIM 8.0    | 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 |

### Important note

|                     |   |
|---------------------|---|
| Product information | The applicable safety regulations for the overload and short-circuit of the connected conductors must be followed. The total current of all connected conductors must not exceed the max. load current. |
|---------------------|---|

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**Technical data**

**Approvals**

Approvals



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

**Downloads**

|   |   |
|---|---|
| Approval/Certificate/Document of Conformity | <a href="#">DNVGL certificate</a><br><a href="#">CE Declaration of Conformity</a><br><a href="#">UKCA declaration of conformity</a> |
| Engineering Data                            | <a href="#">CAD data – STEP</a>   |
| User Documentation                          | <a href="#">AAP Terminal Blocks for control voltage distribution</a><br><a href="#">BPZL AXC 1.5-16</a>                             |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>  |

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**Drawings**

