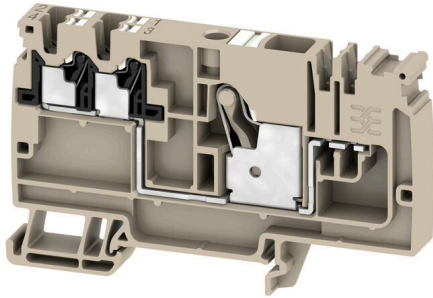


**AAP12 10/4X2.5 LO-LI WT****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

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

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="#">2712970000</a>  |
| Type       | AAP12 10/4X2.5 LO-LI WT   |
| GTIN (EAN) | 4050118824209   |
| Qty.       | 20 items  |

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## Technical data

## Approvals

Approvals



ROHS Conform

UL File Number Search [UL Website](#)

Certificate No. (cURus) E60693

## Dimensions and weights

|                          |             |                |             |
|--------------------------|-------------|----------------|-------------|
| Depth                    | 53.5 mm     | Depth (inches) | 2.1063 inch |
| Depth including DIN rail | 54 mm       | Height         | 89 mm       |
| Height (inches)          | 3.5039 inch | Width          | 10 mm       |
| Width (inches)           | 0.3937 inch | Net weight     | 31.2 g      |

## Temperatures

|                                  |                |                                  |                |
|----------------------------------|----------------|----------------------------------|----------------|
| Storage temperature              | -25 °C...55 °C | Ambient temperature              | -60 °C...85 °C |
| Continuous operating temp., min. | -60 °C         | Continuous operating temp., max. | 130 °C         |

## Environmental Product Compliance

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

## Material data

|                                |       |                           |            |
|--------------------------------|-------|---------------------------|------------|
| Basic material                 | Wemid | Colour                    | dark beige |
| Colour of operational elements | white | 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   | Levels cross-connected internally   | No    |
| PE connection                 | No  | Mounting rail                       | TS 35 |
| N-function                    | No  | PE function                         | No    |
| PEN function                  | No  |                                     |       |

## Additional technical data

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

## CSA rating data

|                               |       |                       |                 |
|-------------------------------|-------|-----------------------|-----------------|
| Wire cross section max. (CSA) | 6 AWG | Voltage size C (CSA)  | 600 V           |
| Current size C (CSA)          | 55 A  | Certificate No. (CSA) | 200039-70089609 |
| Voltage size B (CSA)          | 600 V | Current size B (CSA)  | 55 A            |
| Voltage size D (CSA)          | 600 V | Current size D (CSA)  | 5 A             |

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### Technical data

Wire cross section min. (CSA) 28 AWG

#### Conductors for clamping (additional connection)

|   |                      |   |                     |
|---|----------------------|---|---------------------|
| Connection direction additional connection  | top                  | 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> |
| Number of connections, additional connection  | 4                    | Rated cross-section, further connection   | 2.5 mm <sup>2</sup> |
| Blade size, additional connection   | 0.6 x 3.5 mm         | Cross-section for connected wire, multi-core, further connection, min.                      | 0.5 mm <sup>2</sup> |
| Cross-section for connected wire, multi-core, further connection, max.                      | 2.5 mm <sup>2</sup>  | Rated current, additional connection  | 24 A                |
| Cross-section for connected wire, solid-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> |
| Connection type, additional connection  | PUSH IN              | Cross-section for connected wire, flexible, further connection, max.                        | 2.5 mm <sup>2</sup> |
| Stripping length , additional connection  | 10 mm                |   |                     |

#### Conductors for clamping (rated connection)

|   |                     |
|---|---------------------|
| Gauge to IEC 60947-1  | A6                  |
| Wire connection cross section AWG, max.   | AWG 6               |
| Connection direction  | top                 |
| Stripping length  | 18 mm               |
| Type of connection 2  | PUSH IN             |
| Type of connection  | PUSH IN             |
| Number of connections   | 1                   |
| Clamping range, max.  | 16 mm <sup>2</sup>  |
| Clamping range, min.  | 0.5 mm <sup>2</sup> |
| Blade size  | 1.0 x 5.5 mm        |
| Wire connection cross section AWG, min.   | AWG 20              |
| 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, 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, max.                                    | 10 mm <sup>2</sup>  |
| Wire connection cross section, finely stranded, 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> |
| Twin wire-end ferrules, max.  | 4 mm <sup>2</sup>   |
| Twin wire-end ferrules, min.  | 0.5 mm <sup>2</sup> |
| Wire connection cross-section, solid core, max.   | 10 mm <sup>2</sup>  |

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**Technical data**

|   |  |                    |                      |
|---|--|--------------------|----------------------|
| Wire connection cross-section, solid core, min.                     | 0.5 mm <sup>2</sup>                    |                    |                      |
| Tube length for wire-end ferrule with plastic collar DIN 46228/4    | Tube length                            | min.               | 18 mm                |
|   | Cross-section for conductor connection | min.               | 1.5 mm <sup>2</sup>  |
|   |  | max.               | 4 mm <sup>2</sup>    |
|   | Tube length                            | min.               | 12 mm                |
|   |  | max.               | 18 mm                |
|   | Cross-section for conductor connection | min.               | 6 mm <sup>2</sup>    |
| max.  |  | 10 mm <sup>2</sup> |                      |
| 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                |
|   | Cross-section for conductor connection | min.               | 1.5 mm <sup>2</sup>  |
| max.  |  | 4 mm <sup>2</sup>  |                      |
| Tube length for wire-end ferrule without plastic collar DIN 46228/1 | Tube length                            | nominal            | 18 mm                |
|   | Cross-section for conductor connection | min.               | 1.5 mm <sup>2</sup>  |
|   |  | max.               | 10 mm <sup>2</sup>   |

**General**

|   |        |                     |               |
|---|--------|---------------------|---------------|
| Wire connection cross section AWG, max. | AWG 6  | Installation advice | Rail          |
| Wire connection cross section AWG, min. | AWG 20 | Standards           | IEC 60947-7-1 |
| Mounting rail                           | TS 35  |                     |               |

**Rating data**

|  |                    |                                 |               |
|--|--------------------|---------------------------------|---------------|
| Rated cross-section                          | 10 mm <sup>2</sup> | Rated voltage                   | 800 V         |
| Rated DC voltage                             | 800 V              | Nominal 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          |
| Pollution severity                           | 3                  |                                 |               |

**UL rating data**

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

**Classifications**

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 8.0    | EC000897    | ETIM 9.0    | EC000897    |
| ETIM 10.0   | EC000897    | ECLASS 14.0 | 27-25-01-19 |
| ECLASS 15.0 | 27-25-01-19 |             |             |

Drawings

