

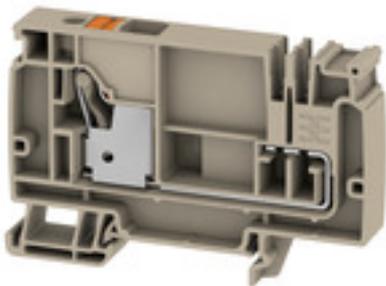
**AAP21 10 LO OR****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

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    | Supply terminal, PUSH IN, 10 mm <sup>2</sup> , 250 V, 57 A, dark beige |
| Order No.  | <a href="#">2581690000</a>   |
| Type       | AAP21 10 LO OR   |
| GTIN (EAN) | 4050118590845  |
| Qty.       | 20 pc(s).  |

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## Technical data

### Dimensions and weights

|            |         |                 |            |
|------------|---------|-----------------|------------|
| Depth      | 53.5 mm | Depth (inches)  | 2.106 inch |
| Height     | 82 mm   | Height (inches) | 3.228 inch |
| Width      | 12 mm   | Width (inches)  | 0.472 inch |
| Net weight | 28.54 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 |
| UL 94 flammability rating | V-0   |        |            |

### Rating data IECEx/ATEX

|                                |                 |                                 |                    |
|--------------------------------|-----------------|---------------------------------|--------------------|
| Certificate No. (ATEX)         | TUEV17ATEX8063U | Certificate No. (IECEX)         | IECEXTUR17.0029U   |
| Max. voltage (ATEX)            | 250 V           | Current (ATEX)                  | 57 A               |
| Wire cross section max. (ATEX) | 10 A            | Max. voltage (IECEX)            | 250 V              |
| Current (IECEX)                | 57 A            | Wire cross section max. (IECEX) | 10 mm <sup>2</sup> |
| 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     | Levels cross-connected internally | No |
| Rail                     | TS 35 |                                   |    |

### Additional technical data

|                          |         |                     |       |
|--------------------------|---------|---------------------|-------|
| Explosion-tested version | Yes     | 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 | Current size B (CSA)          | 51 A  |
| Current size C (CSA)          | 51 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) | 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.                     | 10 mm <sup>2</sup>  |
| Clamping range, min.                     | 0.5 mm <sup>2</sup> |
| Connection cross-section, stranded, max. | 10 mm <sup>2</sup>  |

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## Technical data

|   |  |         |                      |
|---|--|---------|----------------------|
| 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>  |
|   |  | max.    | 4 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                |
|   | Cross-section for conductor connection | min.    | 6 mm <sup>2</sup>    |
|   |  | max.    | 10 mm <sup>2</sup>   |
|   | Tube length                            | min.    | 12 mm                |
|   |  | max.    | 18 mm                |
| 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                            | 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 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>                    |         |                      |

### General

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

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**Technical data**

**Rating data**

|  |                    |                                 |                                  |
|--|--------------------|---------------------------------|----------------------------------|
| Rated cross-section                          | 10 mm <sup>2</sup> | Rated voltage                   | 250 V                            |
| Rated DC voltage                             | 250 V              | Rated current                   | 57 A                             |
| Current at maximum wires                     | 57 A               | Standards                       | In accordance with IEC 60947-7-1 |
| Volume resistance according to IEC 60947-7-x | 0.56 mΩ            | Rated impulse withstand voltage | 4 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 | Current size B (cURus)                     | 51 A  |
| Current size C (cURus)                     | 51 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    | ETIM 9.0    | 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 | ECLASS 13.0 | 27-25-01-01 |
| ECLASS 14.0 | 27-25-01-01 |             |             |

**Environmental Product Compliance**

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

**Approvals**

Approvals



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

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## Technical data

### Downloads

|   |   |
|---|---|
| Approval/Certificate/Document of Conformity | <a href="#">ATEX Certificate</a><br><a href="#">Declaration of Conformity</a><br><a href="#">Attestation of Conformity</a><br><a href="#">IECEX Certificate</a><br><a href="#">DNVGL certificate</a><br><a href="#">CCC Ex Certificate</a><br><a href="#">DNV Certificate</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>   |
| Tender specification                        | <a href="#">Klippon® Connect 2581690000 DE</a><br><a href="#">Klippon® Connect 2581690000 EN</a>  |
| User Documentation                          | <a href="#">NTI AAP 21 10...</a><br><a href="#">NTI AAP 21 4 FS</a><br><a href="#">NTI AAP 21 4 DT</a><br><a href="#">NTI AAP21 4 LI</a><br><a href="#">StorageConditionsTerminalBlocks</a><br><a href="#">AAP Terminal Blocks for control voltage distribution</a><br><a href="#">User Manual AXC 1.5-16</a>   |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>  |

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Drawings

