

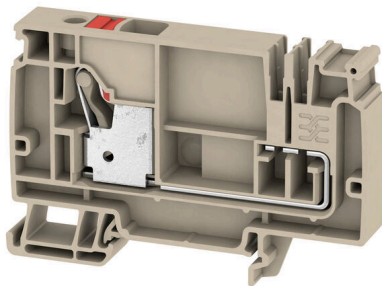
AAP21 10 LO RD**Weidmüller Interface GmbH & Co. KG**

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 ² , 250 V, 57 A, dark beige
Order No.	2428910000
Type	AAP21 10 LO RD
GTIN (EAN)	4050118438253
Qty.	20 items

AAP21 10 LO RD

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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	55 mm	Height	82 mm
Height (inches)	3.2283 inch	Width	12 mm
Width (inches)	0.4724 inch	Net weight	28.54 g

Temperatures

Storage temperature	-25 °C...55 °C	Ambient temperature	-5 °C...40 °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	red	UL 94 flammability rating	V-0

Rating data IECEx/ATEX

Certificate No. (ATEX)	TUEV17ATEX8064U	Certificate No. (IECEX)	IECEXTUR17.0029U
Max. voltage (ATEX)	250 V	Current (ATEX)	6.3 A
Wire cross section max. (ATEX)	4 mm ²	Max. voltage (IECEX)	250 V
Current (IECEX)	57 A	Wire cross section max. (IECEX)	10 mm ²
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	1
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

With snap-in pegs	No	Open sides	right
Snap-on	No	Type of fixing	Snap-on

Creation date 25.02.2026 06:00:43 MEZ

Catalogue status / Drawings

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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)	51 A	Certificate No. (CSA)	200039-70089609
Voltage size B (CSA)	600 V	Current size B (CSA)	51 A
Voltage size D (CSA)	600 V	Current size D (CSA)	5 A
Wire cross section min. (CSA)	20 AWG		

Conductors for clamping (additional connection)

Connection type, additional connection PUSH IN

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	PUSH IN		
Number of connections	1		
Clamping range, max.	16 mm ²		
Clamping range, min.	0.5 mm ²		
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 ²		
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	0.5 mm ²		
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max.	10 mm ²		
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min.	0.5 mm ²		
Wire connection cross section, finely stranded, max.	10 mm ²		
Wire connection cross section, finely stranded, min.	0.5 mm ²		
Connection cross-section, stranded, max.	16 mm ²		
Connection cross-section, stranded, min.	0.5 mm ²		
Twin wire-end ferrules, max.	4 mm ²		
Twin wire-end ferrules, min.	0.5 mm ²		
Wire connection cross-section, solid core, max.	10 mm ²		
Wire connection cross-section, solid core, min.	0.5 mm ²		
Connection cross-section, finely stranded, max.	16 mm ²		
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 ²
		max.	4 mm ²
	Tube length	min.	12 mm

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	Cross-section for conductor connection	max.	18 mm
		min.	6 mm ²
		max.	10 mm ²
Tube length for twin wire-end ferrule	Tube length	nominal	18 mm
		min.	0.75 mm ²
	Cross-section for conductor connection	max.	1 mm ²
		min.	12 mm
	Tube length	max.	18 mm
		min.	1.5 mm ²
Tube length for wire-end ferrule without plastic collar DIN 46228/1	Cross-section for conductor connection	max.	4 mm ²
		nominal	18 mm
		min.	1.5 mm ²
		max.	10 mm ²

General

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

Rating data

Rated cross-section	10 mm ²	Rated voltage	250 V
Rated DC voltage	250 V	Nominal 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	Surge voltage category	III
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)	20 AWG	Conductor size Factory wiring min. (cURus)	20 AWG
Current size B (cURus)	51 A	Voltage size C (cURus)	600 V
Current size C (cURus)	51 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	27-25-01-01
ECLASS 15.0	27-25-01-01		

Drawings

