

ALO 6**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**Product image**

Our feed-in terminal blocks in combination with cross-connections offer the possibility of flexible potential distribution on terminal blocks with a different rated cross-section.

General ordering data

Version	Supply terminal, PUSH IN, 6 mm ² , 800 V, 41 A, dark beige
Order No.	1991780000
Type	ALO 6
GTIN (EAN)	4050118376470
Qty.	20 pc(s).

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Technical data

Dimensions and weights

Depth	45.5 mm	Depth (inches)	1.791 inch
Depth including DIN rail	46 mm	Height	77 mm
Height (inches)	3.031 inch	Width	9 mm
Width (inches)	0.354 inch	Net weight	20.054 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

Certificate No. (ATEX)	TUEV16ATEX7909U	Certificate No. (IECEX)	IECEXTUR16.0036U
Max. voltage (ATEX)	550 V	Current (ATEX)	33 A
Wire cross section max. (ATEX)	6 mm ²	Max. voltage (IECEX)	550 V
Current (IECEX)	33 A	Wire cross section max. (IECEX)	6 mm ²
Marking EN 60079-7	Ex eb II C Gb	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	2
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

Explosion-tested version	Yes	Installation advice	Rail
Open sides	closed	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)	38 A
Current size C (CSA)	38 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)	8 AWG
Wire cross section min. (CSA)	22 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.	6 mm ²

Creation date July 16, 2024 5:15:05 AM CEST

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Technical data

Clamping range, min.	0.34 mm ²		
Connection cross-section, stranded, max.	10 mm ²		
Connection cross-section, stranded, min.	0.5 mm ²		
Connection direction	top		
Gauge to IEC 60947-1	A5		
Number of connections	2		
Stripping length	12 mm		
Tube length for twin wire-end ferrule	Tube length	max.	12 mm
		min.	10 mm
	Cross-section for conductor connection	nominal	0.5 mm ²
	Tube length	max.	18 mm
		min.	10 mm
	Cross-section for conductor connection	nominal	0.75 mm ²
	Tube length	max.	18 mm
		min.	12 mm
	Cross-section for conductor connection	min.	1 mm ²
		max.	1.5 mm ²
Tube length for wire-end ferrule with plastic collar DIN 46228/4	Tube length	max.	12 mm
		min.	10 mm
	Cross-section for conductor connection	min.	0.5 mm ²
		max.	1 mm ²
	Tube length	max.	18 mm
		min.	10 mm
	Cross-section for conductor connection	nominal	1.5 mm ²
	Tube length	max.	18 mm
		min.	12 mm
	Cross-section for conductor connection	nominal	2.5 mm ²
Tube length for wire-end ferrule without plastic collar DIN 46228/1	Cross-section for conductor connection	min.	0.5 mm ²
		max.	1 mm ²
	Tube length	nominal	10 mm
	Cross-section for conductor connection	min.	1.5 mm ²
		max.	2.5 mm ²
	Tube length	min.	10 mm
	Cross-section for conductor connection	nominal	4 mm ²
	Tube length	max.	18 mm
		min.	12 mm
	Cross-section for conductor connection	min.	6 mm ²
		max.	10 mm ²
	Tube length	max.	18 mm
		min.	10 mm
Twin wire-end ferrules, max.	1.5 mm ²		
Twin wire-end ferrules, min.	0.5 mm ²		
Type of connection	PUSH IN		
Wire connection cross section AWG, max.	AWG 8		
Wire connection cross section AWG, min.	AWG 22		
Wire connection cross section, finely stranded, max.	10 mm ²		
Wire connection cross section, finely stranded, min.	0.5 mm ²		

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Technical data

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 with wire-end ferrules DIN 46228/4, max.	6 mm ²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	0.5 mm ²
Wire connection cross-section, solid core, max.	6 mm ²
Wire connection cross-section, solid core, min.	0.5 mm ²

General

Installation advice	Rail	Rail	TS 35
Standards	IEC 60947-7-1	Wire connection cross section AWG, max.	AWG 8
Wire connection cross section AWG, min.	AWG 22		

Rating data

Rated cross-section	6 mm ²	Rated voltage	800 V
Rated DC voltage	800 V	Rated current	41 A
Current at maximum wires	41 A	Standards	IEC 60947-7-1
Volume resistance according to IEC 60947-7-x	0.78 mΩ	Rated impulse withstand voltage	8 kV
Power loss in accordance with IEC 60947-7-x	1.31 W	Pollution severity	3
Surge voltage category	III		

UL rating data

Certificate No. (cURus)	E60693	Conductor size Factory wiring max. (cURus)	8 AWG
Conductor size Factory wiring min. (cURus)	22 AWG	Conductor size Field wiring max. (cURus)	8 AWG
Conductor size Field wiring min. (cURus)	22 AWG	Current size B (cURus)	38 A
Current size C (cURus)	38 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

Environmental Product Compliance

REACH SVHC	/
RoHS Compliance Status	Compliant without exemption

Creation date July 16, 2024 5:15:05 AM CEST

Catalogue status 13.07.2024 / We reserve the right to make technical changes.

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Technical data

Approvals

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate No. (cURus)	E60693
Certificate No. (cURusEX)	E184763

Downloads

Approval/Certificate/Document of Conformity	Attestation of Conformity UKCA Ex Attestation of Conformity IECEX Certificate ATEX Certificate CB Test Certificate CB Certificate DNVGL certificate BV certificate CCC Ex Certificate UKCA Ex Certificate UKCA declaration of conformity Confirmation of Standards EN 45545-2_2020-10
Engineering Data	CAD data – STEP
Engineering Data	Zuken E3.S
Tender specification	Klippon® Connect 1991780000 EN Klippon® Connect 1991780000 DE
User Documentation	NTI_ALO 6 ADDITIONAL_NOTE_DE ADDITIONAL_NOTE_EN StorageConditionsTerminalBlocks User Manual AXC 1.5-16
Catalogues	Catalogues in PDF-format
Brochures	

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Drawings

