

Product data sheet

Characteristics

ABL8BPK24A03

battery- 24 V DC - 32 A - 3.2 AH - for battery control module



Main

Range of product	Phaseo
Product or component type	Battery module
Input voltage	24 V DC
Output voltage	24 V DC
Maximum output current	32 A
Battery capacity	3.2 Ah
Holding time	< 20 h at 0.16 A, 20 °C > 5 min at 8.4 A, 20 °C

Complementary

Input voltage limits	21...29 V
Charging time	72 h
Load current	0.3 A
Output protection type	Against overload and short-circuits, protection technology: 1 x 20 A automotive type fuse
Connections - terminals	For input connection: screw type terminals, connection capacity: 2 x 0.5...2 x 10 mm ² AWG 20...AWG 8 For output connection: screw type terminals, connection capacity: 2 x 0.5...2 x 10 mm ² AWG 20...AWG 8
Self-discharge rate	9 %, 3 months 3 %, 1 month 15 %, 6 months
Fixing mode	By 2 screws diameter: 5 mm on horizontal panel, operating position: horizontal By 4 screws diameter: 5 mm on vertical panel, operating position: vertical By clips (with mounting kit) on 35 mm symmetrical DIN rail, operating position: horizontal By clips (with mounting kit) on 35 mm symmetrical DIN rail, operating position: vertical
Output coupling	Parallel
Operating altitude	2000 m
Service life in hours	11000 H at 40 °C 15000 H at 35 °C 22000 H at 30 °C 31000 H at 25 °C 44000 H at 20 °C 5000 H at 50 °C 7300 h at 45 °C
Marking	CE
Net weight	3.5 kg

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Environment

Product certifications	EAC UL
Ambient air temperature for operation	0...40 °C
Ambient air temperature for storage	-20...50 °C
IP degree of protection	IP10 conforming to EN/IEC 60529
Overvoltage category	Class 3 conforming to VDE 0106-1
Vibration resistance	2 gn (f= 11.9...150 Hz) conforming to EN/IEC 61131-2 3.5 mm (f= 3...11.9 Hz) conforming to EN/IEC 61131-2

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	3.644 kg
Package 1 Height	17.8 cm
Package 1 width	27.2 cm
Package 1 Length	17 cm
Unit Type of Package 2	CAR
Number of Units in Package 2	1
Package 2 Weight	3.866 kg
Package 2 Height	17.5 cm
Package 2 width	16.5 cm
Package 2 Length	26.8 cm
Unit Type of Package 3	S06
Number of Units in Package 3	24
Package 3 Weight	105.784 kg
Package 3 Height	73.5 cm
Package 3 width	60 cm
Package 3 Length	80 cm

Offer Sustainability

REACH Regulation	REACH Declaration
REACH free of SVHC	Yes
EU RoHS Directive	Not applicable, out of EU RoHS legal scope
China RoHS Regulation	China RoHS Declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End Of Life Information
PVC free	Yes

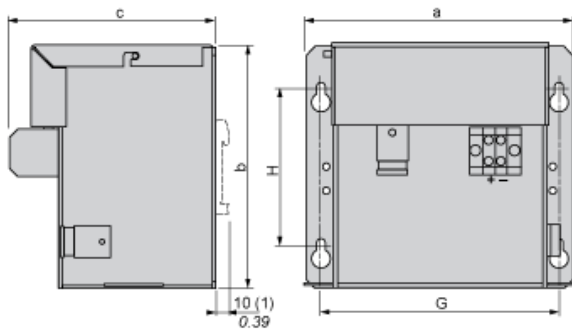
Contractual warranty

Warranty	18 months
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24 Vdc Battery Module

Dimensions

mm
inch



ABL	a	b	c	G	H
8BPK24A03	184/7.24	138,5/5.45	131	156/6.14	83/3.27
8BPK24A07	170/6.69	155,5/6.12	131	152/5.98	100/3.94
8BPK24A12	236/9.29	155,5/6.12	131	218/3.94	100/3.94

(1) ABL8BPK24A03 (with kit ABL1A02)

24 Vdc Battery Module

Mounting



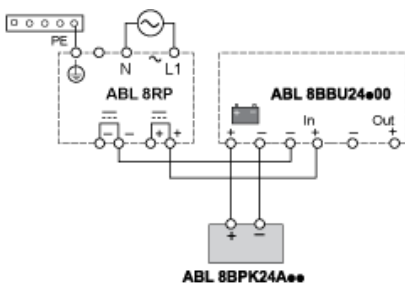
Wiring Requirements

Cable Types and Wire Sizes

	ABL 8BPK24A03 ABL 8BBU24200 ABL 8BBU24400
$\varnothing \leq 4 \text{ mm}^2$ $\varnothing \leq 12 \text{ AWG}$	$\varnothing > 4 \text{ mm}^2$ $\varnothing > 12 \text{ AWG}$
ABL 8BPK24A03 +/- mm ² /AWG	6 / 10 / 10 / 6
	Nm 1,7 Nm max lb-in 15

24 Vdc Battery Module Wiring

Wiring Diagram



Paralleling 2 x ABL8PK24A0•

Wiring Diagram

