

# Product data sheet

Specifications



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

ABL8BPK24A03

### 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 mm² AWG 20...AWG 8 For output connection: screw type terminals, connection capacity: 2 x 0.5...2 x 10 mm² 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

Environment

Product certifications	CTP 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	3.584 kg
Package 1 Height	16.5 cm
Package 1 width	18 cm
Package 1 Length	27 cm
Unit Type of Package 2	S06
Number of Units in Package 2	24
Package 2 Weight	105.784 kg
Package 2 Height	73.5 cm
Package 2 width	60 cm
Package 2 Length	80 cm
Package 3 Height	73.5 cm

Offer Sustainability

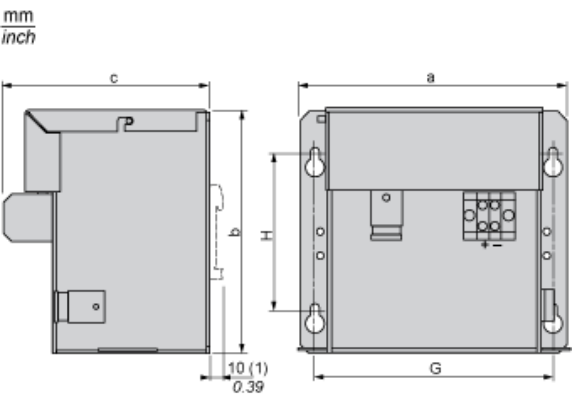
REACH Regulation	<a href="#">REACH Declaration</a>
REACH free of SVHC	Yes
EU RoHS Directive	Not applicable, out of EU RoHS legal scope
China RoHS Regulation	<a href="#">China RoHS declaration</a> Product out of China RoHS scope. Substance declaration for your information
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End of Life Information</a>
PVC free	Yes
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>

Contractual warranty

Warranty	18 months
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24 Vdc Battery Module

Dimensions

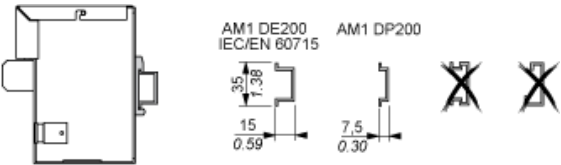


ABL	a	b	c	G	H
8BPK24A03	184/7.24	138,5/5.45	131	156/6.14	83/3.27
8BPK24A07	170/6.69	155,5/6.12	131	152/5.98	100/3.94
8BPK24A12	238/9.29	155,5/6.12	131	218/3.94	100/3.94

(1) ABL8BPK24A03 (with kit ABL1A02)

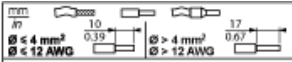




24 Vdc Battery Module

Mounting



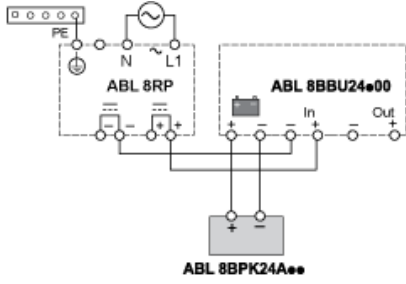
Wiring Requirements

Cable Types and Wire Sizes

 Ø ≤ 4 mm² Ø ≤ 12 AWG	 Ø > 4 mm² Ø > 12 AWG	 Ø ≤ 4 mm² Ø ≤ 12 AWG	ABL 8BBU24200	ABL 8BBU24400
ABL 8BPK24A●● +/– mm²/AWG			6 / 10	10 / 6
 Ø 5,5 mm²/0.22 in		 Ø 10 mm²/0.39 in	Nm 10	Nm 15

## 24 Vdc Battery Module Wiring

## Wiring Diagram



Paralleling 2 x ABL8PK24A0•

Wiring Diagram

