



## Main

Range of product	Phaseo
Product or component type	Battery control module
Input voltage	24...28.8 V DC
Output voltage	(U <sub>battery</sub> -0.5) V in battery mode DC (U <sub>in</sub> -0.25) V in nominal mode DC
Maximum output current	40 A

## Complementary

Input voltage limits	22...30 V
Maximum power dissipation in W	12 W
Activation threshold	Adjustable 22...36 V
Number of output channels	1
Current consumption	0.6 A on load 0.1 mA no load ≤ 40.6 A
Output protection type	Against overload, protection technology: 1.5 x I <sub>n</sub> Against short-circuits, protection technology: battery-backed mode, automatic reset Against short-circuits, protection technology: power-supplied mode
Connections - terminals	For diagnostic relay: removable screw terminal block, connection capacity: 1 x 0.75 mm <sup>2</sup> For input connection: screw type terminals, connection capacity: 2 x 0.5...2 x 10 mm <sup>2</sup> AWG 20...AWG 8 For output connection: screw type terminals, connection capacity: 2 x 0.5...2 x 10 mm <sup>2</sup> AWG 20...AWG 8
Fixing mode	By clips on 35 mm symmetrical DIN rail, operating position: horizontal By clips on 35 mm symmetrical DIN rail, operating position: vertical
Marking	CE
Name of test	Electrostatic discharges conforming to EN/IEC 61000-4-2 Emission conforming to EN 61000-6-3 Induced electromagnetic field conforming to EN/IEC 61000-4-6 level 3 Radiated electromagnetic field conforming to EN/IEC 61000-4-3 level 3 Rapid transient conforming to IEC 61000-4-4 level 3 Surge conforming to EN/IEC 61000-4-5 level 2 Conducted/radiated emissions conforming to EN 55022 class B, 20 %
Local signalling	1 C/O relayalarm status: 1 C/O relaybattery status: 1 C/O relaypower supply status: LCD screenmodule status:
Net weight	0.7 kg

## Environment

Product certifications	RCM EAC
Standards	UL 508 CSA C22.2 No 60950-1
Ambient air temperature for operation	-25...60 °C
Ambient air temperature for storage	-40...85 °C
Environmental characteristic	EMC conforming to EN 61000-6-3 EMC conforming to EN/IEC 61000-6-2 Safety conforming to EN/IEC 60950-1 Safety conforming to EN/IEC 61204-3
IP degree of protection	IP20 conforming to EN/IEC 60529
Dielectric strength	500 V between input and ground 500 V between output and ground
Overvoltage category	Class II conforming to VDE 0106-1
Relative humidity	0...90 % during operation 0...95 % during storage
MTBF reliability	707945 H at 24 V DC with UTE C80-810 calculation method
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

Package 1 Weight	1.349 kg
Package 1 Height	1.120 dm
Package 1 width	1.800 dm
Package 1 Length	1.850 dm

## Offer Sustainability

Sustainable offer status	Green Premium product
REACH free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
China RoHS Regulation	<a href="#">China RoHS Declaration</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End Of Life Information</a>
PVC free	Yes

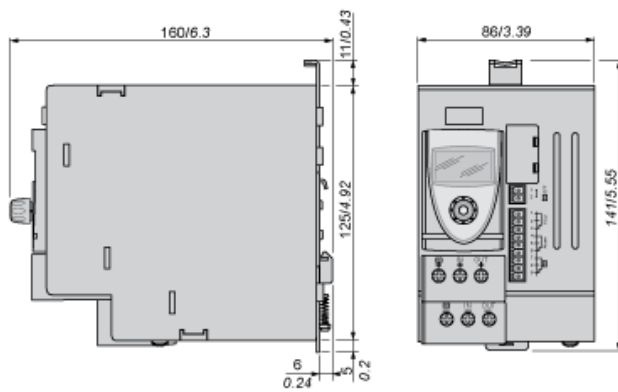
## Contractual warranty

Warranty	18 months
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## 24 Vdc/40 A Battery Control Module

### Dimensions

mm  
inch

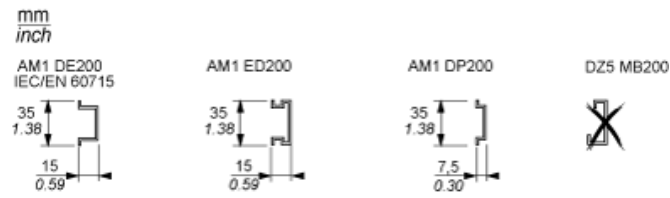


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24 Vdc Battery Control Module

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Mounting



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24 Vdc Battery Control Module

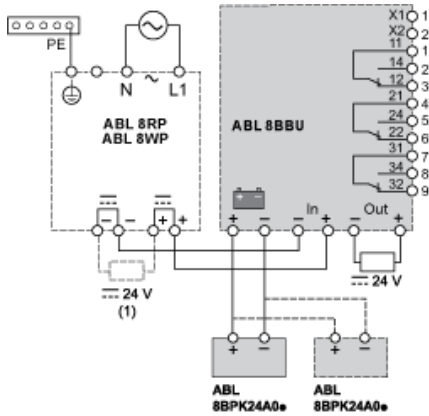
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Clearance



## 24 Vdc Battery Control Module

### Wiring Diagram



(1) See table below for the maximum unstored charge capacity ( $\mu\text{F}$ )

ABL	Max. Unstored Charge Capacity ( $\mu\text{F}$ )
8RPS24030	30 000
8RPS24050	50 000
8RPS24100	100 000
8RPM24200	100 000
8WPS24200	100 000
8WPS24400	100 000

## 24 Vdc Battery Control Module

### Outputs States ( $U = 24 \text{ Vdc}$ : $I > 5 \text{ mA}$ , $U = 230 \text{ Vac}$ : $I < 500 \text{ mA}$ )

	No power from the power supply		Power from the power supply
	Alarm or device not supplied		No alarm
	No power from the battery pack		Power from the battery pack

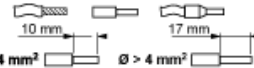






### Inputs States (Dry Contact)

	Operational battery		Battery inhibited
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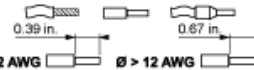






## Wiring Requirements

## Cable Types and Wire Sizes

### IEC / EN

		ABL 8RPS24030 8RPS24050 8RPS24100	ABL 8RPM24200 8WPS24200 8WPS24400
			
$\varnothing \leq 4 \text{ mm}^2$			
$\varnothing > 4 \text{ mm}^2$			
<b>ABL 8BBU24200</b>	In + / -	1...4 mm <sup>2</sup>	4...10 mm <sup>2</sup>
	 + / -	6 mm <sup>2</sup>	-
	Out + / -	6 mm <sup>2</sup>	-
<b>ABL 8BBU24400</b>	In + / -	1...4 mm <sup>2</sup>	4...10 mm <sup>2</sup>
	 + / -	10 mm <sup>2</sup>	-
	Out + / -	10 mm <sup>2</sup>	-
	 +	10 mm <sup>2</sup>	-
		-	
 OFF / PSU / Alarm / 		0,14...1 mm <sup>2</sup>	

### UL

		ABL 8RPS24030 8RPS24050 8RPS24100	ABL 8RPM24200 8WPS24200 8WPS24400
			
$\varnothing \leq 12 \text{ AWG}$			
$\varnothing > 12 \text{ AWG}$			
<b>ABL 8BBU24200</b>	In + / -	16...12 AWG	12...6 AWG
	 + / -	10 AWG	-
	Out + / -	10 AWG	-
<b>ABL 8BBU24400</b>	In + / -	16...12 AWG	12...6 AWG
	 + / -	6 AWG	-
	Out + / -	6 AWG	-
	 +	6 AWG	-
		-	
 OFF / PSU / Alarm / 		26...16 AWG	