

ABL8BBU24200

battery control module - 24..28.8 V DC - 24 V - 20 A
- for regulated SMPS



Main

Range of product	Phaseo
Product or component type	Battery control module
Input voltage	24..28.8 V DC
Output voltage	(U _{battery} -0.5) V in battery mode DC (U _{in} -0.25) V in nominal mode DC
Maximum output current	20 A

Complementary

Input voltage limits	22...30 V
Current consumption	<= 40.6 A 0.6 A, on load 0.1 mA, no load
Power dissipation in W	< 7 W
Activation threshold	Adjustable 22...36 V
Number of output channels	1
Residual ripple	<= 200 mV
Output protection type	Against overload, protection technology: 1.5 x I _n Against short-circuits, protection technology: battery-backed mode, automatic reset Against short-circuits, protection technology: power-supplied mode
Connections - terminals	Removable screw terminal block for diagnostic relay, connection capacity: 1 x 0.75 mm ² Screw type terminals for input connection, connection capacity: 2 x 0.5...2 x 10 mm ² AWG gauge20...8 Screw type terminals for output connection, connection capacity: 2 x 0.5...2 x 10 mm ² AWG gauge20...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
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 % derating factor
Local signalling	1 C/O relay, function: alarm status 1 C/O relay, function: battery status 1 C/O relay, function: power supply status LCD screen, function: module status
Product weight	0.5 kg

Environment

IP degree of protection	IP10 conforming to EN/IEC 60529
Ambient air temperature for operation	-25...60 °C
Ambient air temperature for storage	-40...85 °C
Relative humidity	0...90 % during operation 0...95 % during storage
Class of protection against electric shock	Class II conforming to VDE 0106-1
Vibration resistance	3.5 mm (f = 3...11.9 Hz) conforming to EN/IEC 61131-2 2 gn (f = 11.9...150 Hz) conforming to EN/IEC 61131-2
Dielectric strength	500 V between input and ground

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	500 V between output and ground
Product certifications	CCSAus UL
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

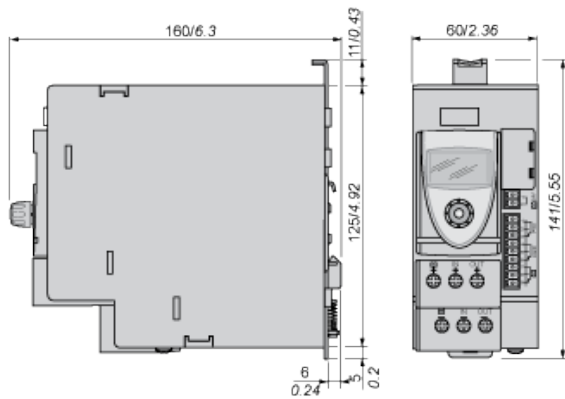
Contractual warranty

Period	18 months
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24 Vdc/20 A Battery Control Module

Dimensions

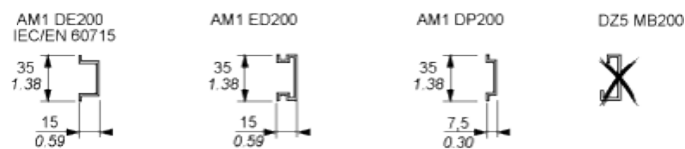
mm
inch



24 Vdc Battery Control Module

Mounting

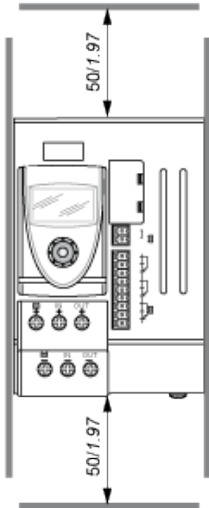
mm
inch



24 Vdc Battery Control Module

Clearance

mm
inch



Wiring Requirements

Cable Types and Wire Sizes

IEC / EN

		ABL 8RPS24030 8RPS24050 8RPS24100	ABL 8RPM24200 8WPS24200 8WPS24400
ABL 8BBU24200	In + / -	1...4 mm ²	4...10 mm ²
	⏻ + / -	6 mm ²	-
	Out + / -	6 mm ²	-
ABL 8BBU24400	In + / -	1...4 mm ²	4...10 mm ²
	⏻ + / -	10 mm ²	-
	Out + / -	10 mm ²	-
	⊖	10 mm ²	-
		-	-
	OFF / PSU / Alarm /	0,14...1 mm ²	-

UL

		ABL 8RPS24030 8RPS24050 8RPS24100	ABL 8RPM24200 8WPS24200 8WPS24400
ABL 8BBU24200	In + / -	16...12 AWG	12...6 AWG
	⏻ + / -	10 AWG	-
	Out + / -	10 AWG	-
ABL 8BBU24400	In + / -	16...12 AWG	12...6 AWG
	⏻ + / -	6 AWG	-
	Out + / -	6 AWG	-
	⊖	6 AWG	-
		-	-
	OFF / PSU / Alarm /	26...16 AWG	-