

Product datasheet

Specifications



electronic protection module,
phaseo ABL7 ABL8, 28 to 28.8V
DC, 10A, for regulated SMPS, 2
pole breaking by channel

ABL8PRP24100

Main

Range of product	Phaseo
Product or component type	Electronic protection module
Input voltage	24...28.8 V DC
Output voltage	(Uin-0.3) V DC
Maximum output current	10 A per channel, rating: 1/2.5/4/5/7/8/10

Complementary

Capacitive load max	2200 µF
Input voltage limits	19...32 V
Input current	40 A
Number of output channels	4
Output protection type	Against overload, protection technology: 1.3 x In Against short-circuits, protection technology: automatic reset Line protection, protection technology: 1 x 15 A integrated fuse per channel
Complementary function	2-pole breaking by channel
Breaking capacity	1000 A at 32 V DC by fuse
Connections - terminals	For input connection: screw type terminals, connection capacity: 4 x 0.5...4 x 10 mm² AWG 20...AWG 8 For diagnostic relay: removable screw terminal block, connection capacity: 1 x 2.5 mm² AWG 14 For output connection: screw type terminals, connection capacity: 8 x 0.5...8 x 4 mm² AWG 20...AWG 10
Fixing mode	By clips on 35 mm symmetrical DIN rail, operating position: vertical On panel
Operating altitude	2000 m
Marking	CE
Name of test	Electrostatic discharges conforming to IEC 61000-4-2 Emission conforming to IEC 61000-6-3 Induced electromagnetic field conforming to IEC 61000-4-6 level 3 Radiated electromagnetic field conforming to IEC 61000-4-3 level 3 Rapid transient conforming to IEC 61000-4-4 level 3 Surge conforming to IEC 61000-4-5 level 2 Conducted/radiated emissions conforming to EN 55022 class B Emission conforming to EN 50081-1
Local signalling	1 LED per channel (green/red) for channel status 1 relay for channel status
Net weight	0.47 kg

Environment

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

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 IEC 61000-6-3 EMC conforming to IEC 61000-6-2 Safety conforming to IEC 60950-1 Safety conforming to EN/IEC 61204-3
IP degree of protection	IP20 conforming to 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
Vibration resistance	2 gn (f= 11.9...150 Hz) conforming to IEC 61131-2 3.5 mm (f= 3...11.9 Hz) conforming to IEC 61131-2

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	13.800 cm
Package 1 Width	10.000 cm
Package 1 Length	13.500 cm
Package 1 Weight	570.000 g
Unit Type of Package 2	S04
Number of Units in Package 2	20
Package 2 Height	30.000 cm
Package 2 Width	40.000 cm
Package 2 Length	60.000 cm
Package 2 Weight	12.490 kg

Contractual warranty

Warranty	18 months
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Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

Environmental footprint	
Total lifecycle Carbon footprint	707
Environmental Disclosure	Product Environmental Profile

Use Better

Materials and Substances	
Packaging made with recycled cardboard	No
Packaging without single use plastic	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
SCIP Number	E6698216-ab12-4ef7-9c9d-adff881e87cf
REACH Regulation	REACH Declaration
PVC free	Yes

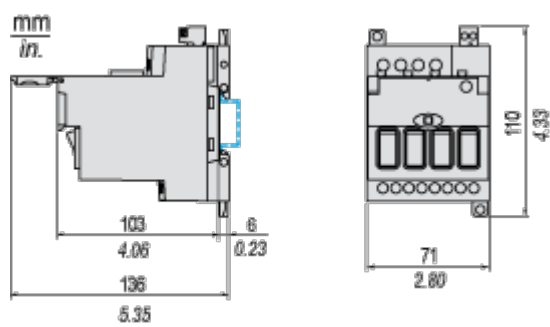
Use Again

Repack and remanufacture	
End of life manual availability	End of Life Information
Take-back	No
WEEE Label	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Dimensions Drawings

Downstream Electronic Protection Module

Dimensions

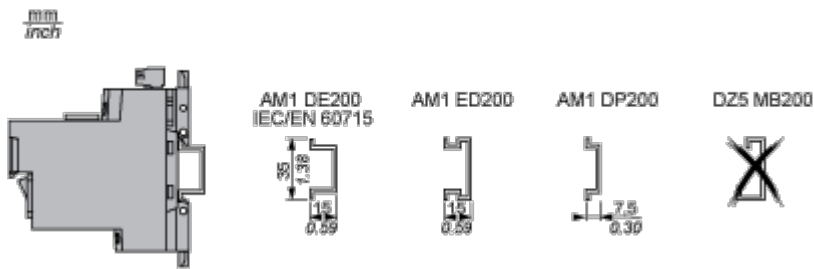


Mounting and Clearance

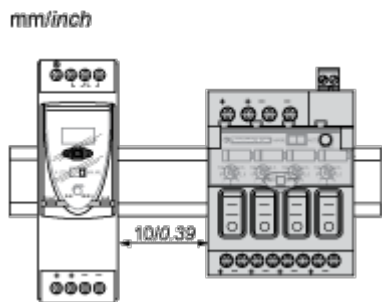
Downstream Electronic Protection Module

Mounting DIN rails

Downstream electronic protection modules can be installed on a DIN rail. The graphic below provides the characteristics and references of the compatible DIN rails for the mounting of the module.

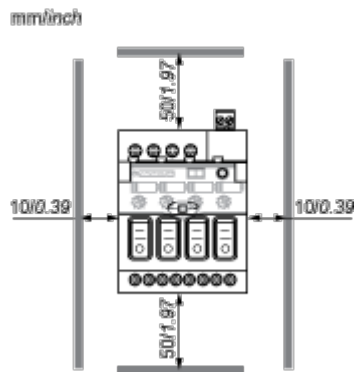


Module Mounting



Downstream Electronic Protection Module

Clearance



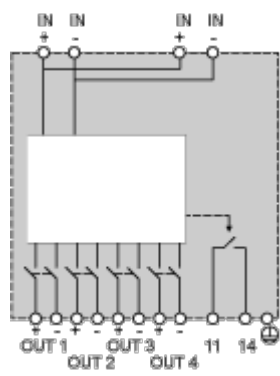
Connections and Schema

Wiring Requirements

Cable Types and Wire Sizes

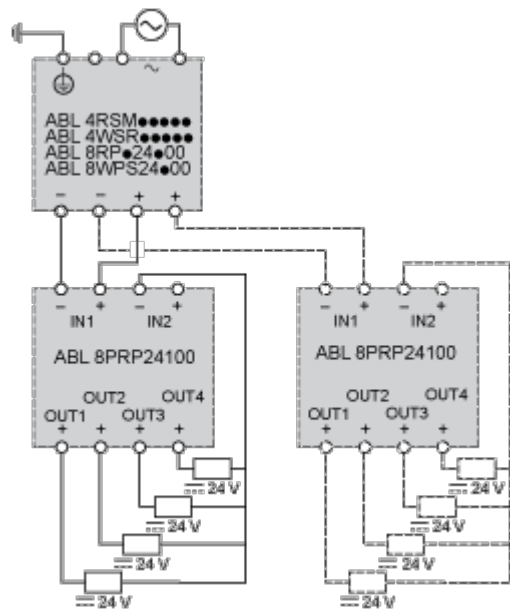
mm inch 10 0.39     ABL	8RPS24030	8RPM24200 8WPS24200/24400		
	8RPS24050			
	8RPS24100			
	lin / Ulin	mm ² /AWG	1...4 / 16...12	4...10 / 12...6
	lsut / Ulsut	mm ² /AWG	0,5...4 / 20...12	
	11...14	mm ² /AWG	0,2...2,5 / 24...14	

Internal Wiring Diagram



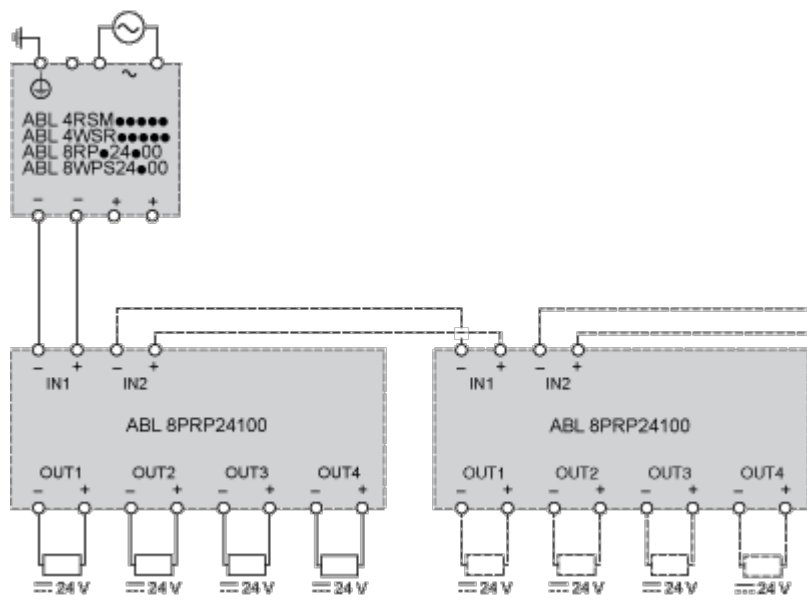
Wiring Diagrams

24 Vdc Output Circuits with Common Point



IN1 and IN2 terminals limited to 40 A

24 Vdc Output Circuits without Common Point



IN1 and IN2 terminals limited to 40 A

Image of product / Alternate images

Alternative

