

Product data sheet

Specifications



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

ABL8PRP24100

**Product availability: Non-Stock - Not normally stocked in
distribution facility**

Main

Range of Product	Phaseo
Product or Component Type	Electronic protection module
Input voltage	24...28.8 V DC
Output voltage	(U _{in} -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 I _n 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 32 V DC by fuse
Connections - terminals	For input connection: screw type terminals, connection capacity: 4 x 0.5...4 x 10 mm ² AWG 20...AWG 8 For diagnostic relay: removable screw terminal block, connection capacity: 1 x 2.5 mm ² AWG 14 For output connection: screw type terminals, connection capacity: 8 x 0.5...8 x 4 mm ² AWG 20...AWG 10
Fixing mode	By clips 35 mm symmetrical DIN rail vertical On panel
Operating altitude	6561.68 ft (2000 m)
Marking	CE
Name of test	Electrostatic discharges IEC 61000-4-2 Emission IEC 61000-6-3 Induced electromagnetic field IEC 61000-4-6 level 3 Radiated electromagnetic field IEC 61000-4-3 level 3 Rapid transient IEC 61000-4-4 level 3 Surge IEC 61000-4-5 level 2 Conducted/radiated emissions EN 55022 Class B Emission EN 50081-1
Local signalling	1 LED per channel (green/red) for channel status 1 relay for channel status
Net Weight	1.04 lb(US) (0.47 kg)

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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

Environment

Product Certifications	RCM EAC
Standards	UL 508 CSA C22.2 No 60950-1
Ambient Air Temperature for Operation	-13...140 °F (-25...60 °C)
Ambient Air Temperature for Storage	-40...185 °F (-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

Ordering and shipping details

Category	US1CP1222525
Discount Schedule	CP12
GTIN	3389119406918
Returnability	No
Country of origin	PH

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	5.433 in (13.800 cm)
Package 1 Width	3.937 in (10.000 cm)
Package 1 Length	5.315 in (13.500 cm)
Package weight(Lbs)	20.106 oz (570.000 g)
Unit Type of Package 2	S04
Number of Units in Package 2	20
Package 2 Height	11.811 in (30.000 cm)
Package 2 Width	15.748 in (40.000 cm)
Package 2 Length	23.622 in (60.000 cm)
Package 2 Weight	27.536 lb(US) (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	
Carbon footprint (kg CO2 eq, Total Life cycle)	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
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 www.P65Warnings.ca.gov
PVC free	Yes

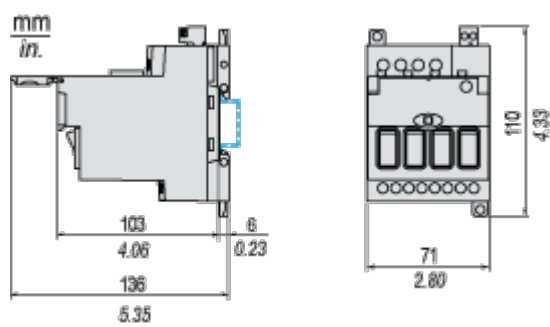
Use Again

Repack and remanufacture	
Circularity Profile	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

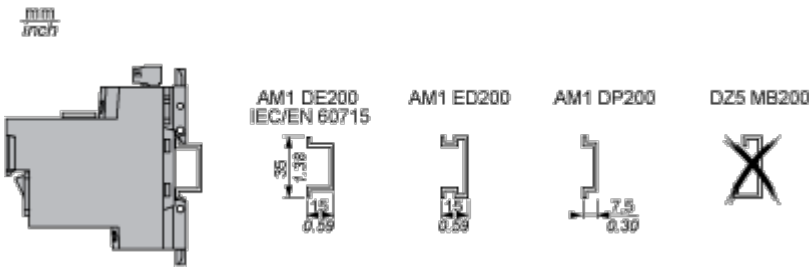


Mounting and Clearance

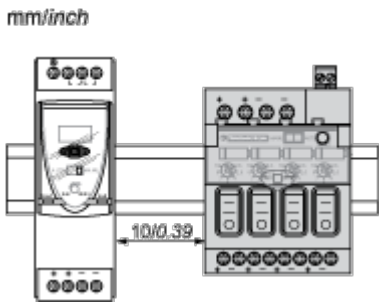
Downstream Electronic Protection Module

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.

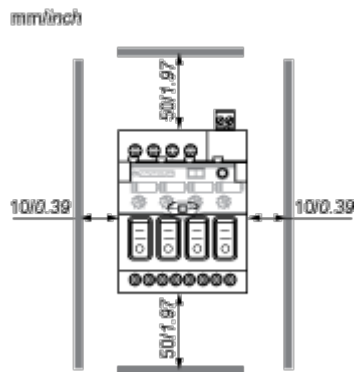


Module Mounting



Downstream Electronic Protection Module

Clearance



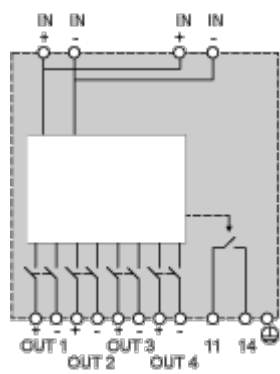
Connections and Schema

Wiring Requirements

Cable Types and Wire Sizes

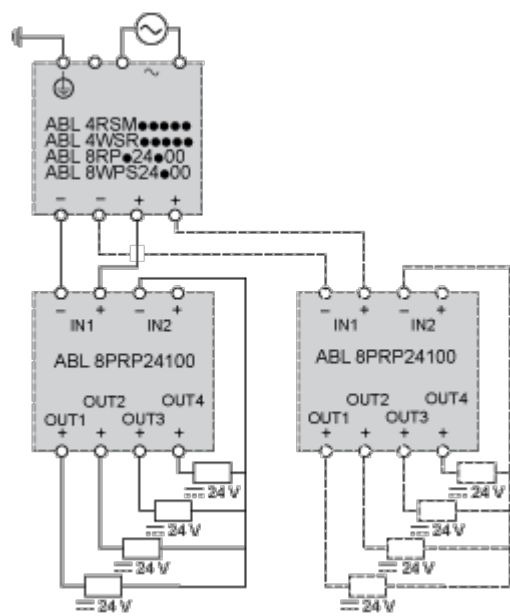
mm inch 10 0.39 	   ABL	8RPS24030	8RPM24200			
		8RPS24050				
				8RPS24100	8WPS24200/24400	
		lin / Ulin		mm²/AWG	1...4 / 16...12	4...10 / 12...6
		lsut / Ulsut		mm²/AWG	0,5...4 / 20...12	
		11...14		mm²/AWG	0,2...2,5 / 24...14	

Internal Wiring Diagram



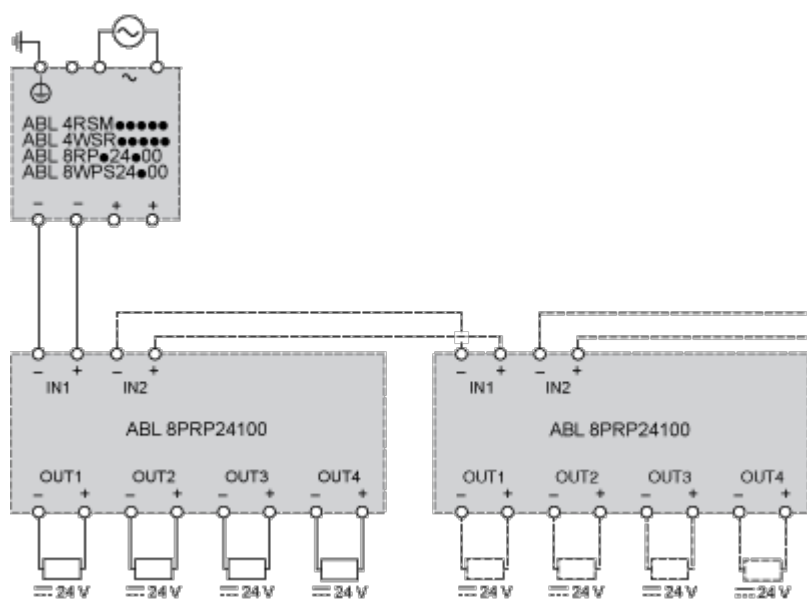
Wiring Diagrams

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

