

# 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 : Stock - Normally stocked in distribution facility

Price\* : 384.00 USD

## 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

Input voltage limits	19...32 V
Input current	40 A
Number of output channels	4
Output protection type	Against overload 1.3 x In Against short-circuits automatic reset Line protection 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	Input connection screw type terminals 4 x 0.5...4 x 10 mm² AWG 20...AWG 8 Diagnostic relay removable screw terminal block 1 x 2.5 mm² AWG 14 Output connection screw type terminals 8 x 0.5...8 x 4 mm² 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	for channel status 1 LED per channel (green/red) for channel status 1 relay
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.

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 IEC 61000-6-3 EMC IEC 61000-6-2 Safety IEC 60950-1 Safety 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 VDE 0106-1
Relative Humidity	0...90 % during operation 0...95 % during storage
Vibration resistance	2 gn 11.9...150 Hz)IEC 61131-2 3.5 mm 3...11.9 Hz)IEC 61131-2

Ordering and shipping details

Category	22525-ABL8 AND ABL7 POWER SUPPLIE
Discount Schedule	CP12
GTIN	3389119406918
Returnability	No
Country of origin	PH

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.43 in (13.8 cm)
Package 1 Width	3.94 in (10.0 cm)
Package 1 Length	5.31 in (13.5 cm)
Package 1 Weight	20.53 oz (582.0 g)
Unit Type of Package 2	S03
Number of Units in Package 2	16
Package 2 Height	11.81 in (30 cm)
Package 2 Width	11.81 in (30 cm)
Package 2 Length	15.75 in (40 cm)
Package 2 Weight	19.70 lb(US) (8.937 kg)
Unit Type of Package 3	P06
Number of Units in Package 3	128
Package 3 Height	29.53 in (75.0 cm)
Package 3 Width	15.75 in (40.0 cm)
Package 3 Length	31.50 in (80.0 cm)
Package 3 Weight	219.35 lb(US) (99.496 kg)

Offer Sustainability

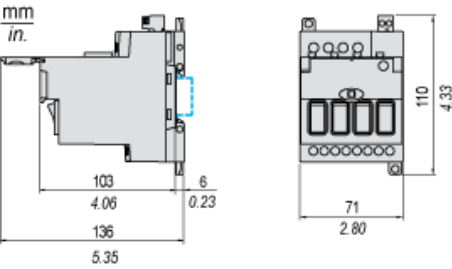
Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
China RoHS Regulation	<a href="#">China RoHS declaration</a>
RoHS exemption information	<a href="#">Yes</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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Downstream Electronic Protection Module

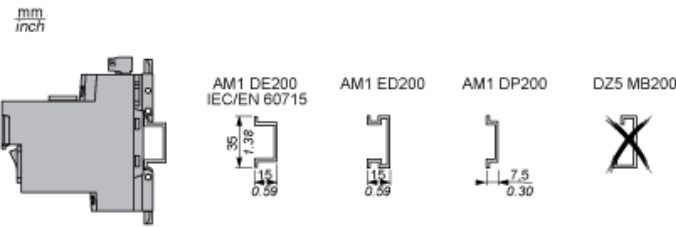
Dimensions



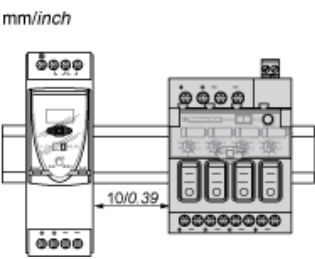
Downstream Electronic Protection Module

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.

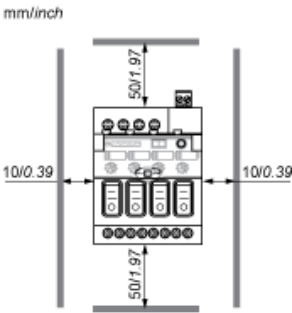


Module Mounting







Downstream Electronic Protection Module

Clearance

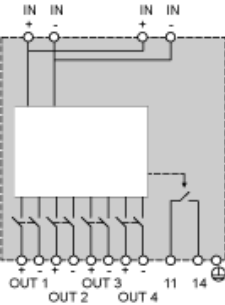


Wiring Requirements

Cable Types and Wire Sizes

<div><div><div>10</div><div>mm</div><div>inch</div></div><div><div>Ø 39</div><div></div></div></div> <div><div></div><div></div><div></div><div>ABL</div></div>		8RPS24030 8RPS24050 8RPS24100	8RPM24200 8WPS24200/24400
lin / Ulin	mm <sup>2</sup> /AWG	1...4 / 16...12	4...10 / 12...6
lout / Uout	mm <sup>2</sup> /AWG	0,5...4 / 20...12	
11...14	mm <sup>2</sup> /AWG	0,2...2,5 / 24...14	

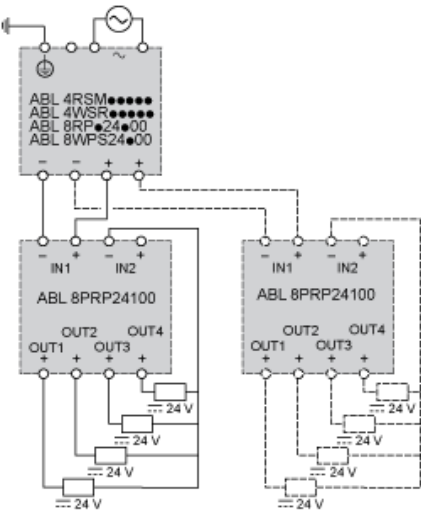
Internal Wiring Diagram





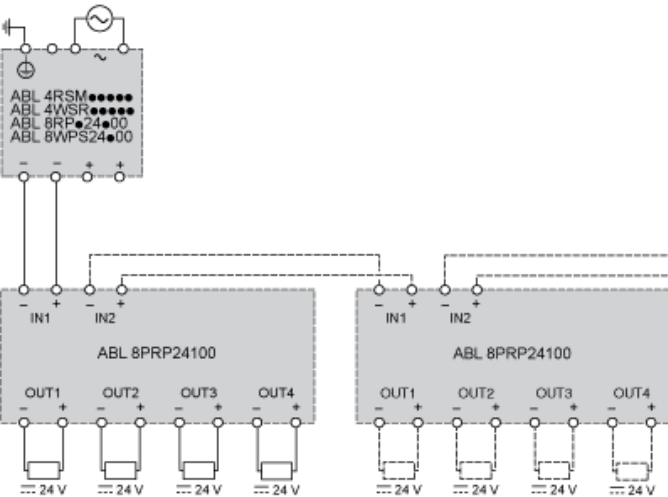
Wiring Diagrams

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

Recommended replacement(s)