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	(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 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 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
Product Weight	1.04 lb(US) (0.47 kg)

Environment

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

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 (in months)	18

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 kg CO2 eq.**
Carbon footprint of the manufacturing phase [A1 to A3]	**19 kg CO2 eq.**
Carbon footprint of the distribution phase [A4]	**0.1 kg CO2 eq.**
Carbon footprint of the installation phase [A5]	**0 kg CO2 eq.**
Carbon footprint of the use phase [B2, B3, B4, B6]	**687 kg CO2 eq.**
Carbon footprint of the end-of-life phase [C1 to C4]	**0.4 kg CO2 eq.**
Environmental Disclosure	Product Environmental Profile

Use Better

Materials and Substances

Packaging made with recycled cardboard	**No**
Packaging without single use plastic	**Yes**
SCIP Number	**E6698216-ab12-4ef7-9c9d-adff881e87cf**
EU RoHS Directive	Compliant By Exemption
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
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 Longer

Lifetime extension

Repair	**No**

Use Again

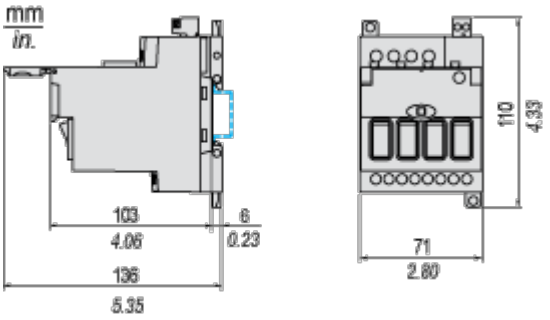
Repack and remanufacture

Recyclability potential, in %	**38**
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

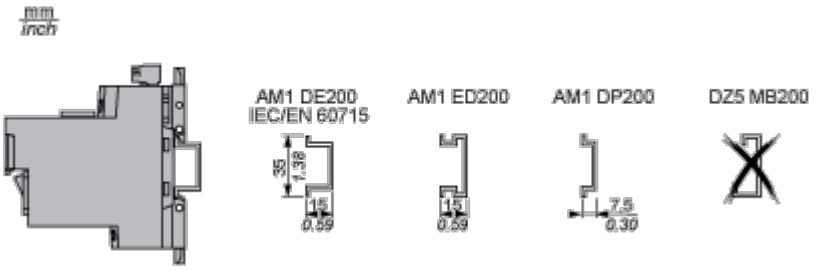


Mounting and Clearance

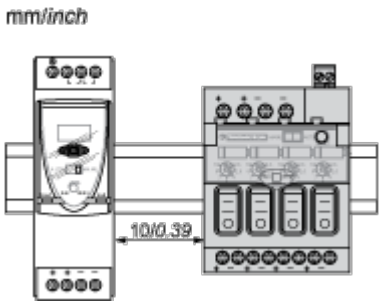
Downstream Electronic Protection Module

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.

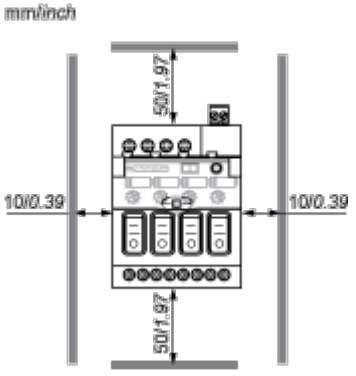


Module Mounting



Downstream Electronic Protection Module

Clearance



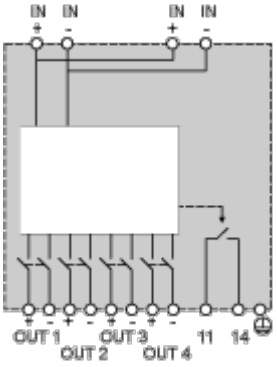
Connections and Schema

Wiring Requirements

Cable Types and Wire Sizes

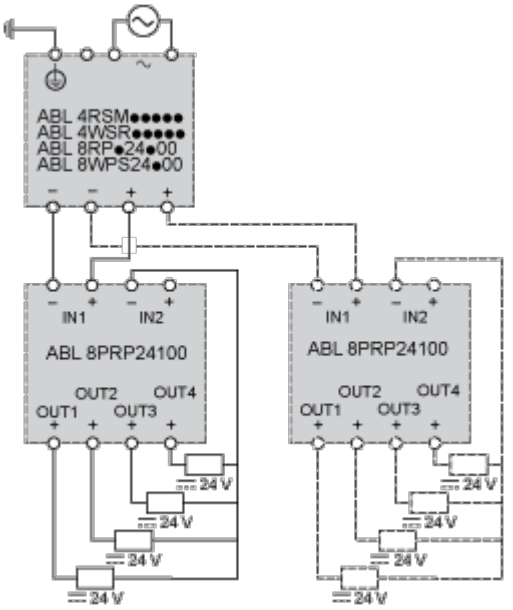
mm / inch 10 / 0.39	ABL	8RPS24030 8RPS24050 8RPS24100	8RPM24200 8WPS24200/24400
Iin / Uin	mm^2/AWG	1...4 / 16...12	4...10 / 12...6
Iout / Uout	mm^2/AWG	0,5...4 / 20...12	
11 ... 14	mm^2/AWG	0,2...2,5 / 24...14	

Internal Wiring Diagram



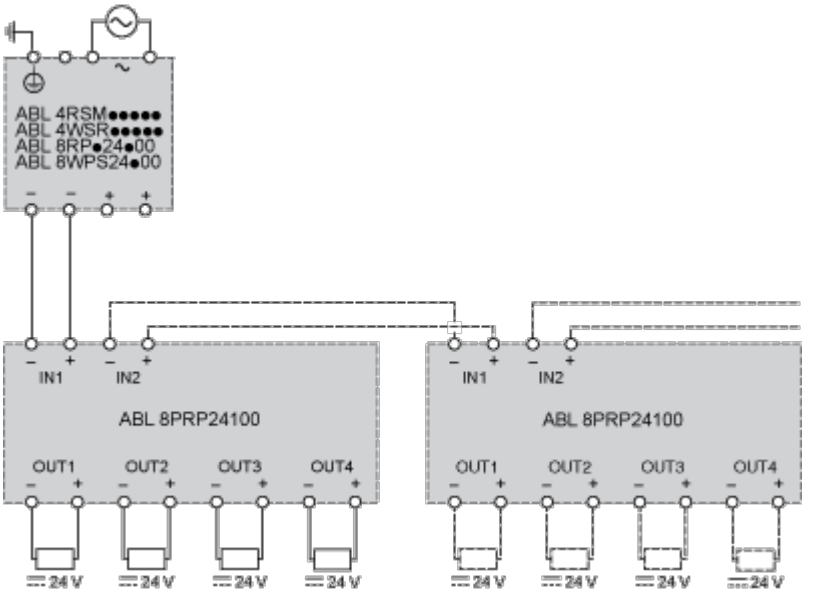
Wiring Diagrams

24 Vdc Output Circuits with Common Point



IN1 and IN2 terminals limited to 40 A

24 Vdc Output Circuits without Common Point

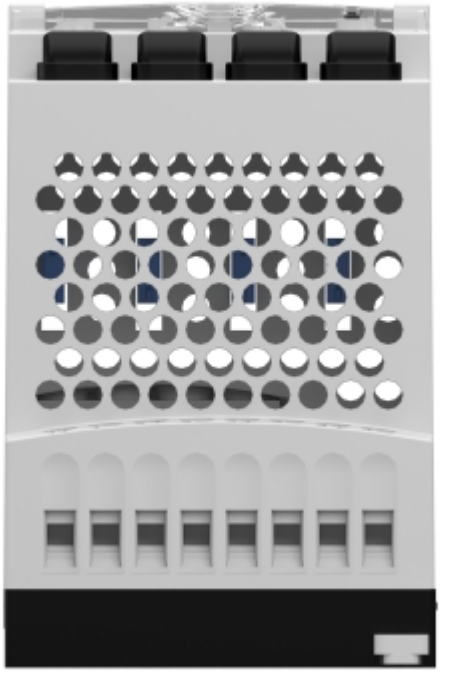


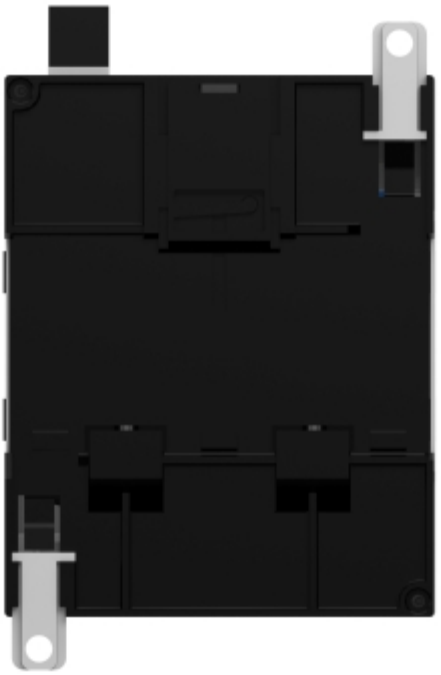
IN1 and IN2 terminals limited to 40 A

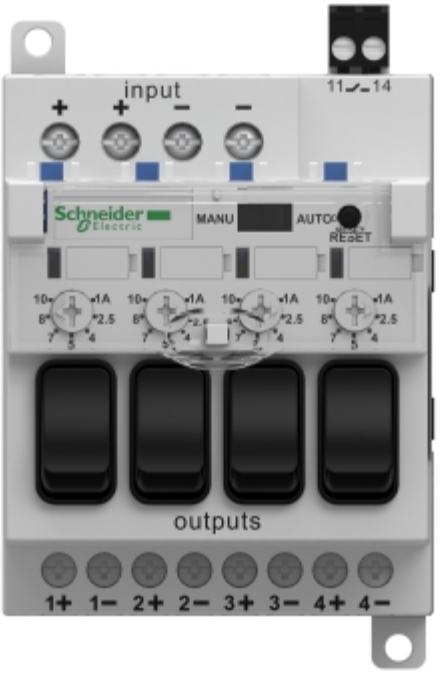
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Alternative








input
+ + − −
11 14
Schneider Electric
MANU
AUTO
RESET
outputs
1+ 1− 2+ 2− 3+ 3− 4+ 4−

