Product datasheet

Specification





electronic protection module - 28..28.8 V DC - 10 A - for regulated SMPS

ABL8PRP24100

Main

Range Of Produc	Phaseo	
Product Or Component Type Electronic protection module		
Input Voltage	2428.8 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	1932 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 0.54 x 10 mm² AWG 20AWG 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 0.58 x 4 mm² AWG 20AWG 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

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

Standards	UL 508			
	CSA C22.2 No 60950-1			
Ambient Air Temperature For Operation	-2560 °C			
- ·				
Ambient Air Temperature For Storage	-4085 °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			
	Salety contenting to Ethics 01201 0			
Ip Degree Of Protection	IP20 conforming to IEC 60529			
Dielectric Strength	500 V between input and ground			
, and the second	500 V between output and ground			
	ooo v bottoon output und ground			
Overvoltage Category	Class II conforming to VDE 0106-1			
Relative Humidity	090 % during operation			
· · · · · · · · · · · · · · · · · · ·	095 % during storage			
	ooo // duffing storage			
Vibration Resistance	2 gn (f= 11.9150 Hz) conforming to IEC 61131-2			
	3.5 mm (f= 311.9 Hz) conforming to IEC 61131-2			

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	13.8 cm
Package 1 Width	10.0 cm
Package 1 Length	13.5 cm
Package 1 Weight	582.0 g
Unit Type Of Package 2	S03
Number Of Units In Package 2	16
Package 2 Height	30 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	8.937 kg
Unit Type Of Package 3	P06
Number Of Units In Package 3	128
Package 3 Height	75.0 cm
Package 3 Width	40.0 cm
Package 3 Length	80.0 cm
Package 3 Weight	99.496 kg

Contractual warranty

Warranty 18 months



Green PremiumTM **label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance



Certifications & Standards

Reach Regulation	REACh Declaration		
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)		
China Rohs Regulation	China RoHS declaration		
Environmental Disclosure	Product Environmental Profile		
Circularity Profile	End of Life Information		

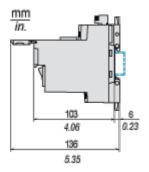
Product datasheet

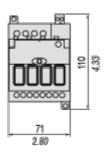
ABL8PRP24100

Dimensions Drawings

Downstream Electronic Protection Module

Dimensions



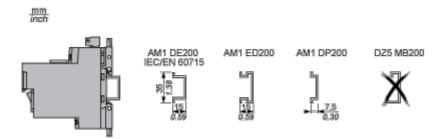


Mounting and Clearance

Downstream Electronic Protection Module

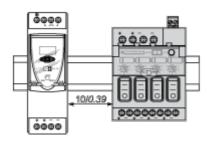
Mounting DIN rails

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.



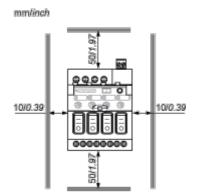
Module Mounting

mm/inch



Downstream Electronic Protection Module

Clearance



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ABL8PRP24100

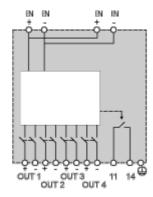
Connections and Schema

Wiring Requirements

Cable Types and Wire Sizes

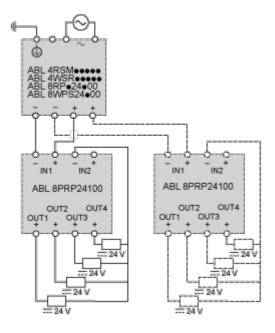
mm inch	10 0.39		CCD ABL	8RPS24030 8RPS24050 8RPS24100	8RPM24200 8WPS24200/24400
		lin / Uin	mm ² /4440	1411612	410 / 126
lout / Uout mm ² /AWG		0,54 / 2012			
		11 14	mm ² /4/4/5	0,22,5 / 2414	

Internal Wiring Diagram



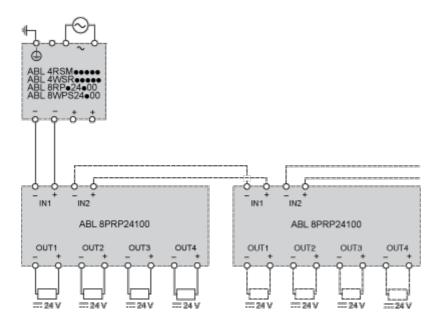
Wiring Diagrams

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