Specifications



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

ABL8PRP24100

#### Main

Main					
Range of product	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 mm <sup>2</sup> AWG 20AWG 8 For diagnostic relay: removable screw terminal block, connection capacity: 1 x 2.5 mm <sup>2</sup> AWG 14 For output connection: screw type terminals, connection capacity: 8 x 0.58 x 4 mm <sup>2</sup> 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 EN/IEC 61000-4-2 Emission conforming to EN 61000-6-3 Induced electromagnetic field conforming to EN/IEC 61000-4-6 level 3 Radiated electromagnetic field conforming to EN/IEC 61000-4-3 level 3 Rapid transient conforming to IEC 61000-4-4 level 3 Surge conforming to EN/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					
Product certifications	RCM EAC				



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 EN 61000-6-3 EMC conforming to EN/IEC 61000-6-2 Safety conforming to EN/IEC 60950-1 Safety conforming to EN/IEC 61204-3				
IP degree of protection	IP20 conforming to EN/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	090 % during operation 095 % during storage				
Vibration resistance	2 gn (f= 11.9…150 Hz) conforming to EN/IEC 61131-2 3.5 mm (f= 3…11.9 Hz) conforming to EN/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	S04
Number of Units in Package 2	21
Package 2 Height	30.0 cm
Package 2 Width	40.0 cm
Package 2 Length	60.0 cm
Package 2 Weight	13.474 kg

## Offer Sustainability

Sustainable offer status	Green Premium product			
REACh Regulation	REACh Declaration			
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration			
Mercury free	Yes			
RoHS exemption information	Yes			
China RoHS Regulation	China RoHS declaration			
Environmental Disclosure	Product Environmental Profile			
Circularity Profile	End of Life Information			
PVC free	Yes			
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, whic known to the State of California to cause cancer and birth defects or other reproductive harm. For information go to www.P65Warnings.ca.gov			

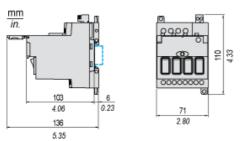
#### **Contractual warranty**

Warranty

Dimensions Drawings

#### Downstream Electronic Protection Module

#### Dimensions



Mounting and Clearance

#### Downstream Electronic Protection Module

#### Mounting DIN rails

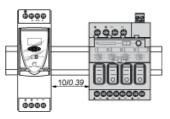
Downstream electronic protection modules can be installed on a DIN rail. The graphic below provides the characteristics and references of the compatible DIN rails for the mounting of the module.





#### Module Mounting

mm/inch

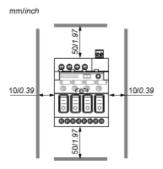


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Mounting and Clearance

#### **Downstream Electronic Protection Module**

#### Clearance



ABL8PRP24100

Connections and Schema

#### Wiring Requirements

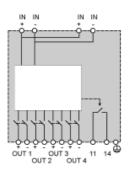
#### Cable Types and Wire Sizes

mm inch	0.39		ABL	8RPS24030 8RPS24050 8RPS24100	8RPM24200 8WPS24200/24400
		lin / Uin	mm <sup>2</sup> /AWG	14/1612	410/126
		lout / Uout	mm <sup>2</sup> /AWG	0,54/2012	
		11_14	mm <sup>2</sup> /AWG	0,22,5 / 2414	

**ABL8PRP24100** 

Connections and Schema

#### **Internal Wiring Diagram**

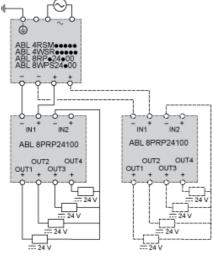




Connections and Schema

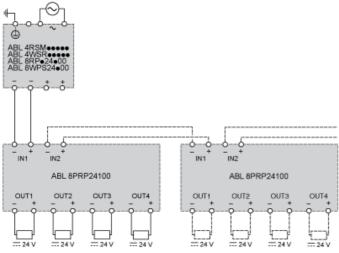
#### Wiring Diagrams

#### 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)