Product datasheet

Specifications



redundancy module - 40A - for regulated SMPS

ABL8RED24400

Main

Range of product	Phaseo
Product or component type	Redundancy module
Input voltage	24...28.8 V DC
Output voltage	(Uin-0.2) V DC
Maximum output current	40 A

Complementary

Input voltage limits	22...30 V
Input current	20 A
Number of output channels	1
Output protection type	Against overload, protection technology: external protection by power supply Against short-circuits, protection technology: external protection by power supply
Connections - terminals	For output connection: screw type terminals, connection capacity: 2 x 0.5...2 x 10 mm² 20 AWG...8 AWG For input connection: screw type terminals, connection capacity: 4 x 0.5...4 x 10 mm² 20 AWG...8 AWG For diagnostic relay: removable screw terminal block, connection capacity: 1 x 2.5 mm² 14 AWG
Fixing mode	By clips on 35 mm symmetrical DIN rail, operating position: horizontal By clips on 35 mm symmetrical DIN rail, operating position: vertical
Output coupling	Parallel
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 input (green) for power supply status 1 relay for power supply status
Net weight	0.7 kg

Environment

Product certifications	EAC RCM
Standards	CSA C22.2 No 60950-1 UL 508

Excluding VAT, FCA Jabal Ali & are subject to change – check with your local distributor.

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

Ambient air temperature for operation	-25…60 °C
Ambient air temperature for storage	-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
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
MTBF reliability	2488391 H at 24 V DC with UTE C80-810 calculation method
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

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	7.000 cm
Package 1 Width	16.800 cm
Package 1 Length	16.600 cm
Package 1 Weight	630.000 g
Unit Type of Package 2	S06
Number of Units in Package 2	80
Package 2 Height	75.000 cm
Package 2 Width	60.000 cm
Package 2 Length	80.000 cm
Package 2 Weight	65.160 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

Environmental Disclosure	Product Environmental Profile

Use Better

Materials and Substances

Packaging made with recycled cardboard	No
Packaging without single use plastic	Yes
SCIP Number	A510c661-ab71-4b35-aa55-069b0716f9fc
EU RoHS Directive	Compliant By Exemption
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
PVC free	Yes

Use Again

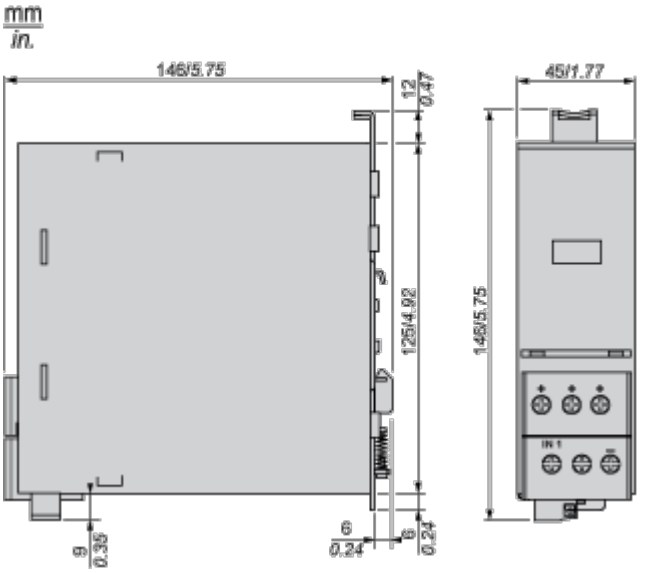
Repack and remanufacture

End of life manual availability	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

Redundancy Module

Dimensions

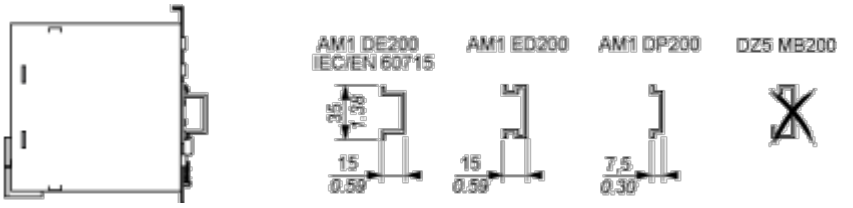


Mounting and Clearance

Redundancy Module

Mounting

Redundancy 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.



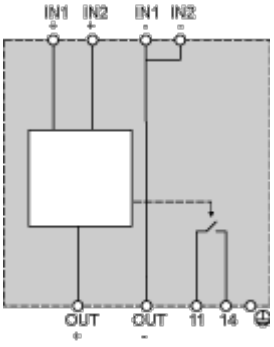
Connections and Schema

Wiring Requirements

Cable Types and Wire Sizes

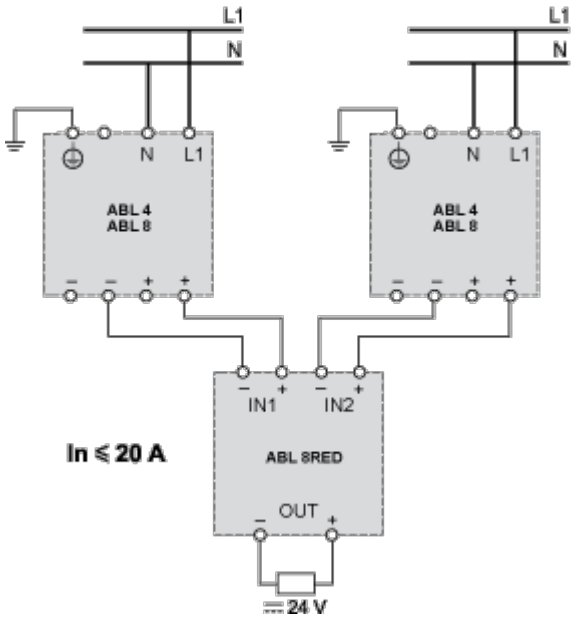
mm / in Ø ≤ 4 mm² Ø ≤ 12 AWG (10 / 0.39) Ø > 4 mm² Ø > 12 AWG (17 / 0.67) ABL		8RPS24030	8RPS24050 8RPS24100	8RPM24200 8WPS24200/24400
+ In –	mm²/AWG	1...4 / 16...12		
+ Out –	mm²/AWG	1...4 / 16...12		4...10 / 12...6
Ø	mm/in	4 / 0.16		
11...14	mm²/AWG	–	0,2...2,5 / 24...14	

Internal Wiring Diagram



Scheme of Use with Power Supplies

Wiring Diagram with In ≤ 20mA



Wiring Diagram with In ≤ 40mA

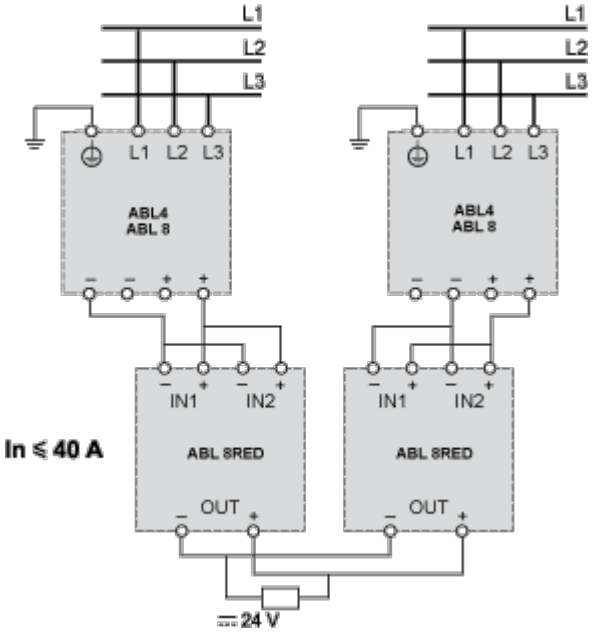
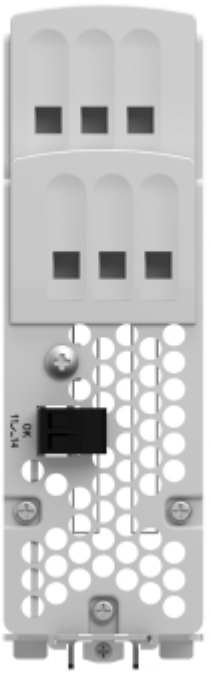
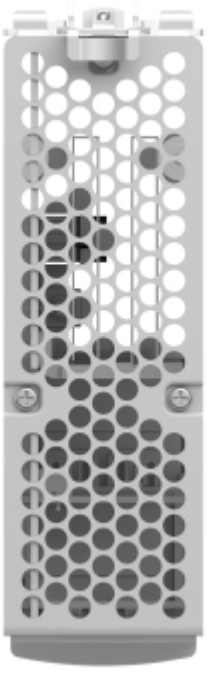


Image of product / Alternate images

Alternative









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