Product data sheet

Specifications



redundancy module, phaseo ABL7 ABL8, 40A, for regulated SMPS

ABL8RED24400

Product availability: Stock - Normally stocked in distribution facility

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 AWG 20...AWG 8 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
Fixing mode	By clips 35 mm symmetrical DIN rail horizontal By clips 35 mm symmetrical DIN rail vertical
Output coupling	Parallel
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 input (green) for power supply status 1 relay for power supply status
Product Weight	1.5 lb(US) (0.7 kg)

Environment

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

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

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
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

Ordering and shipping details

Category	US1CP1222525
Discount Schedule	CP12
GTIN	3389119406871
Returnability	Yes
Country of origin	PH

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	2.756 in (7.000 cm)
Package 1 Width	6.614 in (16.800 cm)
Package 1 Length	6.535 in (16.600 cm)
Package weight(Lbs)	22.222 oz (630.000 g)
Unit Type of Package 2	S06
Number of Units in Package 2	80
Package 2 Height	29.528 in (75.000 cm)
Package 2 Width	23.622 in (60.000 cm)
Package 2 Length	31.496 in (80.000 cm)
Package 2 Weight	143.653 lb(US) (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
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

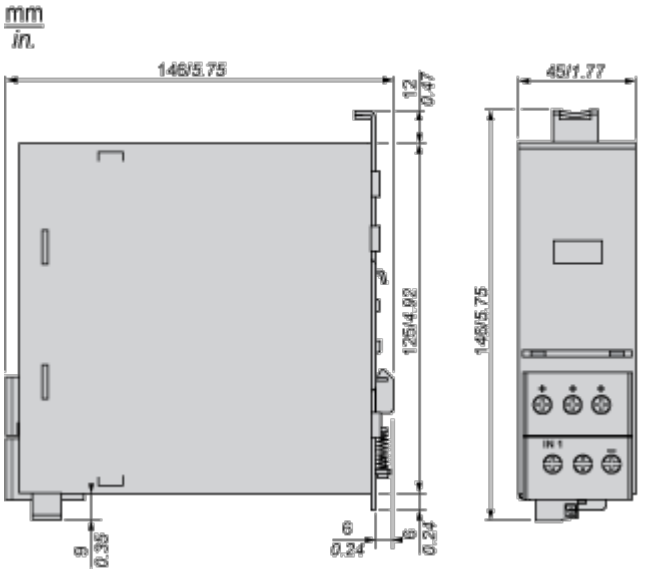
Repack and remanufacture

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

Redundancy Module

Dimensions

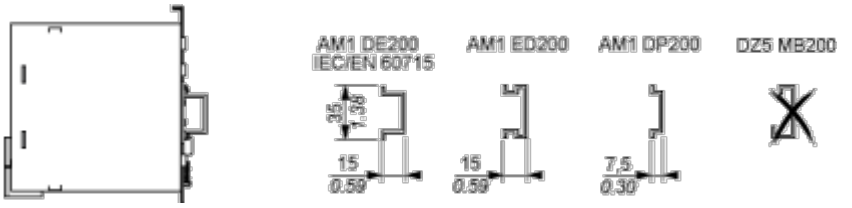


Mounting and Clearance

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.



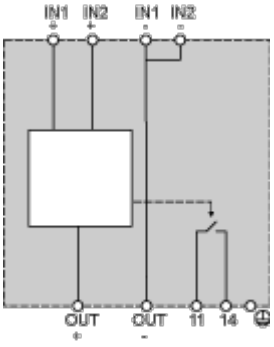
Connections and Schema

Wiring Requirements

Cable Types and Wire Sizes

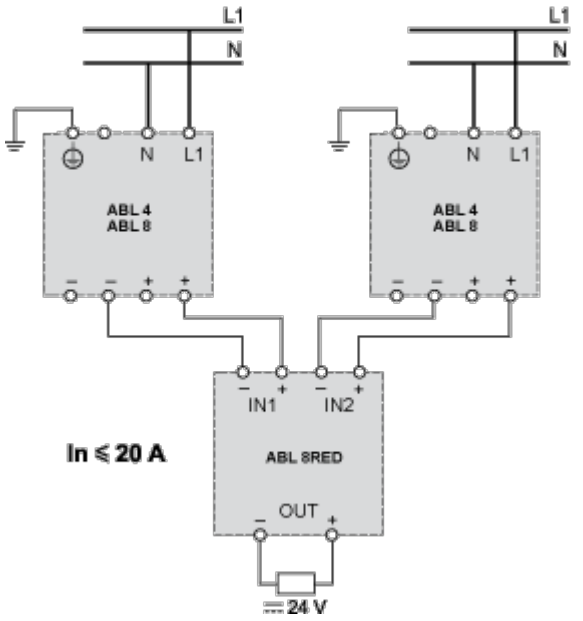
mm / in Ø ≤ 4 mm² Ø ≤ 12 AWG (10 / 0.39) Ø > 4 mm² Ø > 12 AWG (17 / 0.67) ABL		8RPS24030	8RPS24050 8RPS24100	8RPM24200 8WPS24200/24400
+ In –	mm²/AWG	1...4 / 16...12		
+ Out –	mm²/AWG	1...4 / 16...12		4...10 / 12...6
Ø	mm/in	4 / 0.16		
11...14	mm²/AWG	–	0,2...2,5 / 24...14	

Internal Wiring Diagram

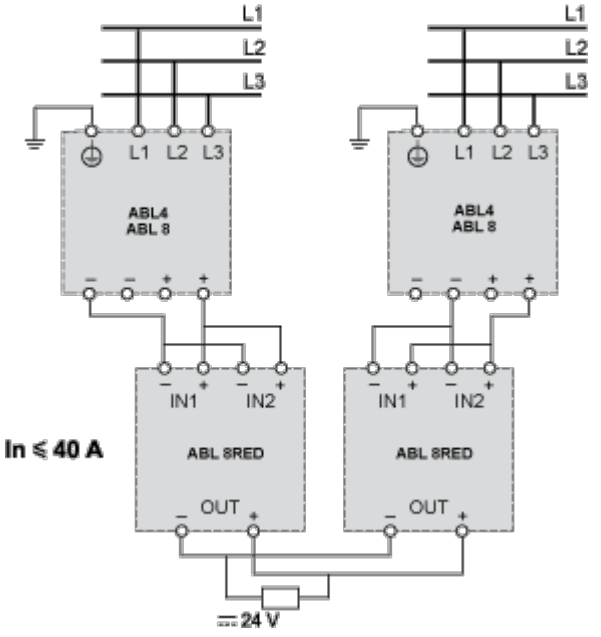


Scheme of Use with Power Supplies

Wiring Diagram with In ≤ 20mA

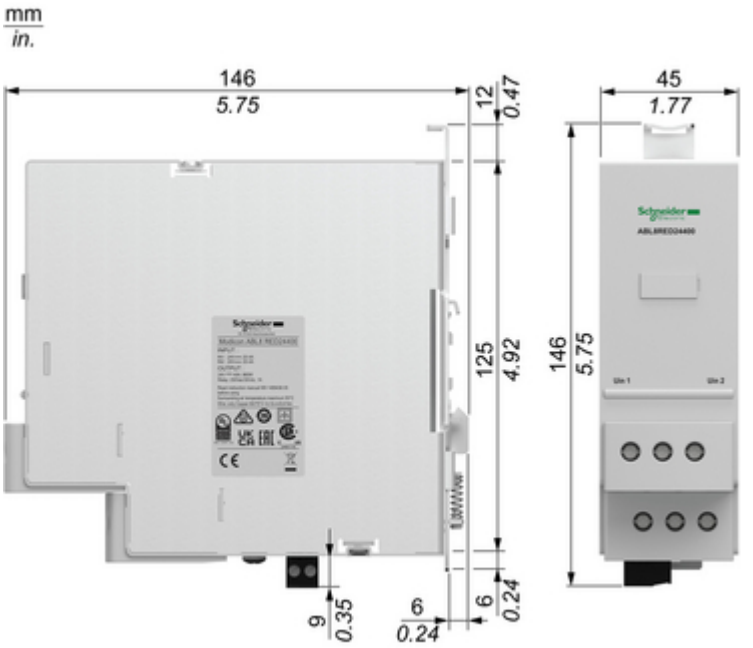


Wiring Diagram with In ≤ 40mA



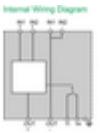
Technical Illustration

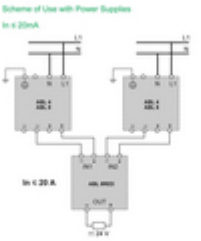
Dimensions



Technical Illustration

Wiring diagram





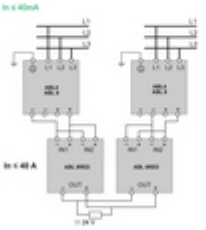
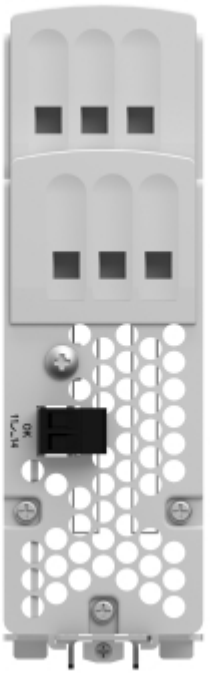
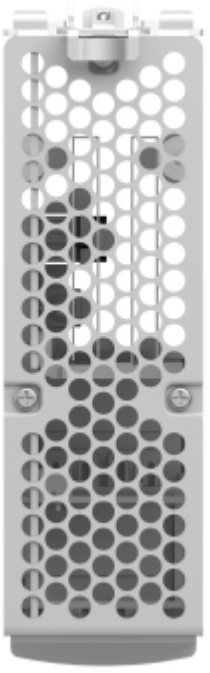




Image of product / Alternate images

Alternative










Schneider Electric
ABL8RED24400
Uin 1
Uin 2


Schneider Electric
Modicon ABL8 RED24400
INPUT :
OUTPUT :
UK CA
EAC
CE