

Product datasheet

Specifications



regulated SMPS - 1 or 2 phase - 120..230 V AC - 24 V - 20A

ABL4RSM24200

⚠ Discontinued on: 31 Dec 2013

EAN Code: 3595864102634

⚠ Discontinued

Main

Range of product	Modicon Power Supply
Product or component type	Power supply
Power supply type	Regulated switch mode
Nominal input voltage	120...230 V AC phase to phase, terminal(s): L1-L2 120...230 V AC single phase, terminal(s): N-L1 300...370 V DC
Rated power in W	480 W
Output voltage	24 V DC
Power supply output current	20 A
Permissible temporary current boost	1.5 x I _n (for 5 seconds)

Complementary

Inrush current	35 A
Power factor	0.75 at 24 V DC
Efficiency	90 % at 120 V AC 92 % at 230 V AC
Output voltage adjustment	100...116 % adjustable
Power dissipation in W	55 W 43 W
Current consumption	4.4 A 230 V AC 8.4 A 120 V AC
Output protection type	Against short-circuits, protection technology: automatic reset Against overload, protection technology: 33 V Thermal Against overvoltage
Connections - terminals	Screw type terminals: 2 x 0.5...2 x 4 mm ² , (AWG 24...AWG 10) for input connection Screw type terminals: 1 x 0.5...1 x 4 mm ² , (AWG 24...AWG 10) for input ground connection Screw type terminals: 2 x 0.5...2 x 4 mm ² , (AWG 24...AWG 10) for voltage selection connection Screw type terminals: 2 x 0.5...2 x 4 mm ² , (AWG 24...AWG 10) for output connection Screw type terminals: 2 x 0.5...2 x 4 mm ² , (AWG 24...AWG 10) for diagnostic relay
Status LED	1 LED (green) output voltage (> 21.6 V) 1 LED (red) overload, overtemperature, overvoltage
Depth	139 mm
Height	127 mm
Width	80 mm
Net weight	1.3 kg

Output coupling	Redundant parallel (internal diode) Series
Marking	CE
Mounting support	35 x 15 mm symmetrical DIN rail 35 x 7.5 mm symmetrical DIN rail
Operating position	Vertical
Supply	SELV conforming to IEC 60950-1 SELV conforming to IEC 60204-1 SELV conforming to IEC 60364-4-41

Environment

Standards	CULus 508 EN/IEC 62368-1
Product certifications	CSA C22-2 No 14 CULus 508
Environmental characteristic	EMC conforming to EN 50081-1 EMC conforming to EN 50082-2 EMC conforming to IEC 61000-6-2 Safety conforming to EN/IEC 60950
IP degree of protection	IP20 conforming to IEC 60529

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1

Contractual warranty

Warranty (in months)	18
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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 >](#)

Use Longer



Lifetime extension

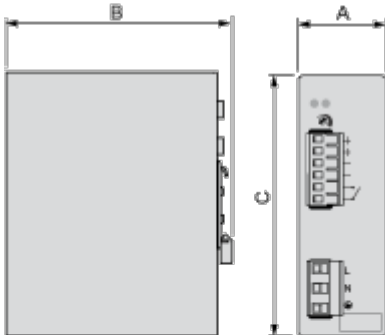
Repair

No

Dimensions Drawings

ABL4RSM240.../4RSM24100/4WSR24... Power Supplies

Dimensions

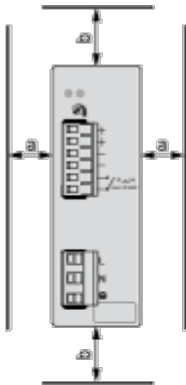


mm/inch	A	B	C
ABL4RSM24035	39/1.53	128/5.04	115/4.53
ABL4RSM24050			
ABL4RSM24100	63.5/2.49	140/5.51	118/4.65
ABL4RSM24200			
ABL4WSR24200	80/3.15	139/5.47	127/5.0
ABL4WSR24300			
ABL4WSR24400			

Mounting and Clearance

ABL4RSM240.../4RSM24100/4WSR24...

Clearance


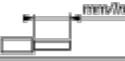



mm/inch	a	b
ABL4RSM24035	10/0.39	50/1.97
ABL4RSM24050	10/0.39	50/1.97
ABL4RSM24100	20/0.79	100/3.94
ABL4RSM24200	10/0.39	50/1.97
ABL4WSR24200	10/0.39	50/1.97
ABL4WSR24300	10/0.39	50/1.97
ABL4WSR24400	10/0.39	50/1.97

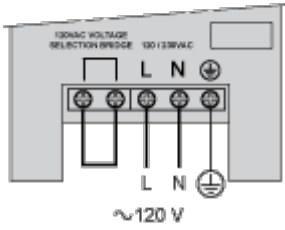
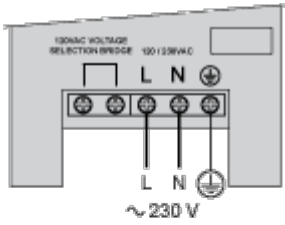
Connections and Schema

Wiring Requirements

Cable Types and Wire Sizes

	ABL4RSM24035 ABL4RSM24050 ABL4RSM24100	ABL4RSM24200 ABL4WSR24***
mm ² /AWG	0,2...2,5 / 24...12	0,05...6 / 24...10
 mm ² /in	7 / 0.27	8 / 0.31
 Nm/lb-in	0,8 / 7.0	1,1 / 9.0

Input Voltage



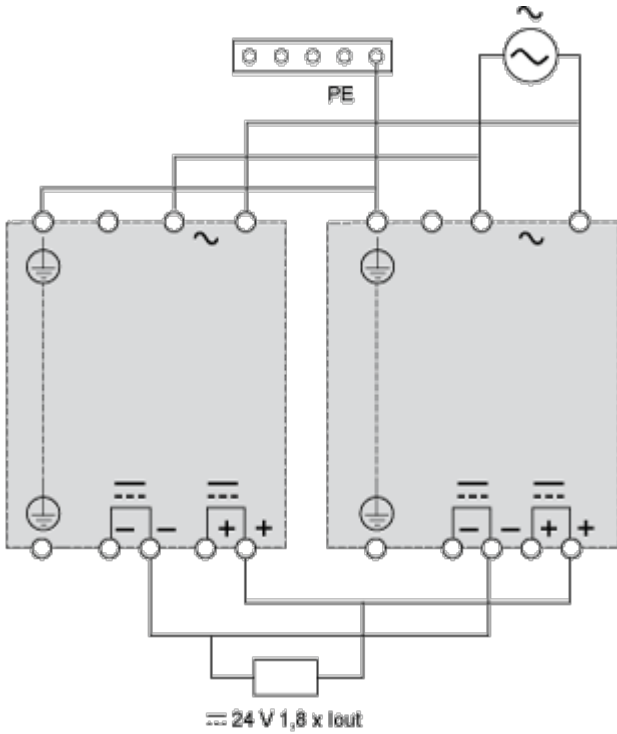
Outputs Connected in Parallel

Paralleling

- Use maximum of 2 power supplies with the same reference.
- For correct current share ($\pm 20\%$) between devices in parallel, adjust $V_{OUT} \pm 20 \text{ mV}$ applying a load $> P_{NOM} \times 0.2$ to all ABL4 before connecting them in parallel.

SELV: Safety Extra Low Voltage

Safety Extra Low Voltage in accordance to IEC/EN 60950 and IEC/EN 50178 standards.



PELV: Protection Extra Low Voltage

