

# Product datasheet

Specifications



## regulated SMPS - 1 or 2 phase - 120..230 V AC - 24 V - 5A

ABL4RSM24050

Discontinued on: 31 Dec 2013

EAN Code: 3595864102610

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 100...370 V DC
Rated Power In W	120 W
Output Voltage	24 V DC
Power Supply Output Current	5 A
Permissible Temporary Current Boost	1.6 x In (for 30 seconds)

### Complementary

Input Protection Type	Integrated fuse (not interchangeable)
Inrush Current	27 A
Power Factor	0.65 at 24 V DC
Efficiency	86 % at 120 V AC 90 % at 230 V AC
Output Voltage Adjustment	96...114 % adjustable
Power Dissipation In W	13 W 19 W
Current Consumption	1.1 A 230 V AC 1.9 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	Removable screw terminal block: 4 x 0.5...2 x 2.5 mm <sup>2</sup> , (AWG 24...AWG 12) for output connection Removable screw terminal block: 2 x 0.2...2 x 2.5 mm <sup>2</sup> , (AWG 24...AWG 12) for input connection Removable screw terminal block: 1 x 0.2...1 x 2.5 mm <sup>2</sup> , (AWG 24...AWG 12) for input ground connection Removable screw terminal block: 2 x 0.2...2 x 2.5 mm <sup>2</sup> , (AWG 24...AWG 12) for diagnostic relay
Status Led	1 LED (green) output voltage (> 21.6 V) 1 LED (red) overload
Depth	128 mm
Height	115 mm

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

Width	40 mm
Net Weight	0.4 kg
Output Coupling	Parallel Series
Marking	CE
Mounting Support	35 x 7.5 mm symmetrical DIN rail 35 x 15 mm symmetrical DIN rail
Operating Position	Vertical
Supply	SELV conforming to EN/IEC 60950-1 SELV conforming to EN/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 EN/IEC 61000-6-2 Safety conforming to EN/IEC 60950
Ip Degree Of Protection	IP20 conforming to EN/IEC 60529

## Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1

## Contractual warranty

Warranty	18 months
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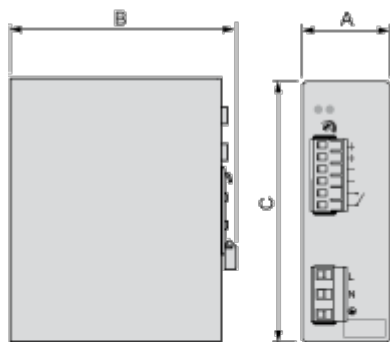
Product datasheet

ABL4RSM24050

Dimensions Drawings

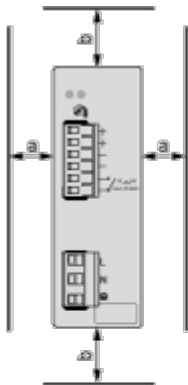
ABL4RSM240.../4RSM24100/4WSR24... Power Supplies

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	80/3.15	139/5.47	127/5.0
ABL4WSR24200			
ABL4WSR24300			
ABL4WSR24400			




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		
ABL4WSR24300		
ABL4WSR24400		

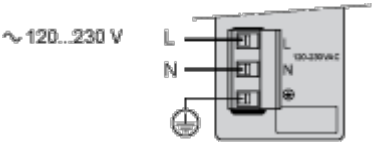
Wiring Requirements

Cable Types and Wire Sizes

	ABL4RSM24035 ABL4RSM24050 ABL4RSM24100	ABL4RSM24200 ABL4WSR24***
mm <sup>2</sup> /AWG	0,2...2,5 / 24...12	0,05...6 / 24...10
 mm <sup>2</sup> /in	7 / 0.27	8 / 0.31
 Nm/lb-in	0,9 / 7.0	1,1 / 9.0

Input Voltage

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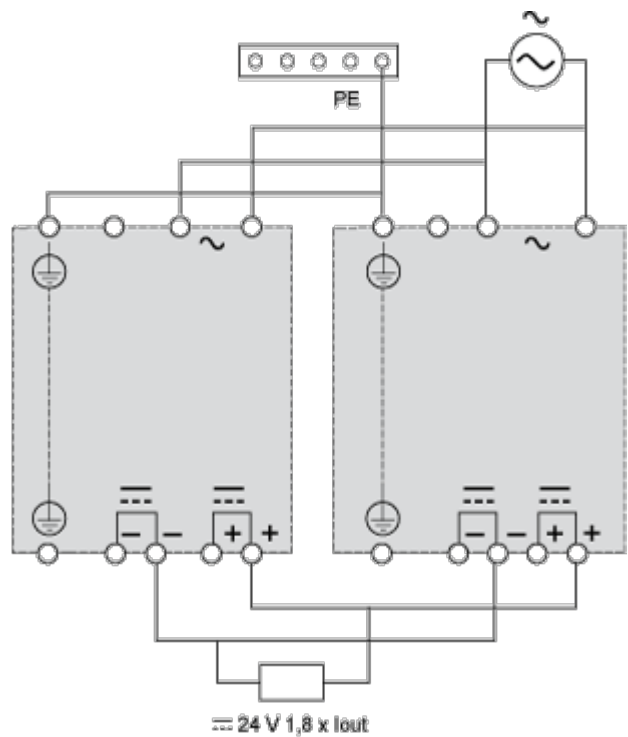
Outputs Connected in Parallel

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

