

# Product datasheet

Specifications



## Regulated Switch Power Supply, 3 phase, 400..500V AC, 24V, 20A

ABL4WSR24200

⚠ Discontinued on: Apr 18, 2024

⚠ Discontinued

### Main

Range of product	Modicon Power Supply
Product or component type	Power supply
Power supply type	Regulated switch mode
Nominal input voltage	400...500 V AC three phase, terminal(s): L1, L2, L3
Rated power in W	480 W
Output voltage	24 V DC
Power supply output current	20 A
Permissible temporary current boost	1.5 x In (for 5 seconds)

### Complementary

Inrush current	10 A
Power factor	0.75 at 24 V DC
Efficiency	93 % at 400 V AC 94 % at 500 V AC
Output voltage adjustment	100...116 % adjustable
Power dissipation in W	30 W 36 W
Current consumption	1.1 A 500 V AC 1.3 A 400 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 <sup>2</sup> , (AWG 24...AWG 10) for input connection Screw type terminals: 1 x 0.5...1 x 4 mm <sup>2</sup> , (AWG 24...AWG 10) for input ground connection Screw type terminals: 2 x 0.5...2 x 4 mm <sup>2</sup> , (AWG 24...AWG 10) for output connection Screw type terminals: 2 x 0.5...2 x 4 mm <sup>2</sup> , (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
Product weight	1.3 kg
Output coupling	Series Parallel

<b>Marking</b>	CE
<b>Mounting support</b>	35 x 15 mm symmetrical DIN rail 35 x 7.5 mm symmetrical DIN rail
<b>Operating position</b>	Vertical
<b>Supply</b>	SELV conforming to IEC 60950-1 SELV conforming to IEC 60204-1 SELV conforming to IEC 60364-4-41

## Environment

<b>Standards</b>	CULus 508 EN/IEC 62368-1
<b>Product certifications</b>	CSA C22-2 No 14 CULus 508
<b>Environmental characteristic</b>	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
<b>IP degree of protection</b>	IP20 conforming to IEC 60529

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1

## Contractual warranty

<b>Warranty (in months)</b>	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

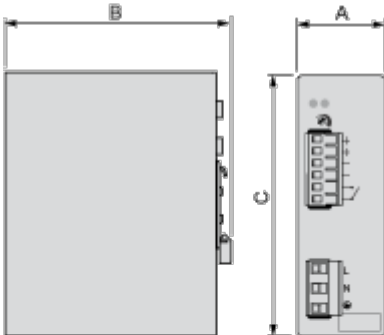
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Dimensions Drawings

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

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Dimensions



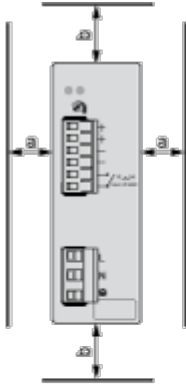
mm/inch	A	B	C
<b>ABL4RSM24035</b>	39/1.53	128/5.04	115/4.53
<b>ABL4RSM24050</b>			
<b>ABL4RSM24100</b>	63.5/2.49	140/5.51	118/4.65
<b>ABL4RSM24200</b>			
<b>ABL4WSR24200</b>	80/3.15	139/5.47	127/5.0
<b>ABL4WSR24300</b>			
<b>ABL4WSR24400</b>			

Mounting and Clearance

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

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Clearance




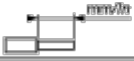

mm/inch	a	b
ABL4RSM24035	10/0.39	50/1.97
ABL4RSM24050	10/0.39	50/1.97
ABL4RSM24100	20/0.79	100/3.94
ABL4RSM24200	10/0.39	50/1.97
ABL4WSR24200	10/0.39	50/1.97
ABL4WSR24300	10/0.39	50/1.97
ABL4WSR24400	10/0.39	50/1.97

Connections and Schema

Wiring Requirements

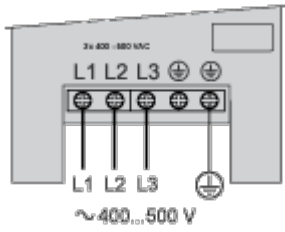
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Cable Types and Wire Sizes

	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 <sup>2</sup> /b-in	0,8 / 7.0	1,1 / 9.0

Input Voltage

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Outputs Connected in Parallel

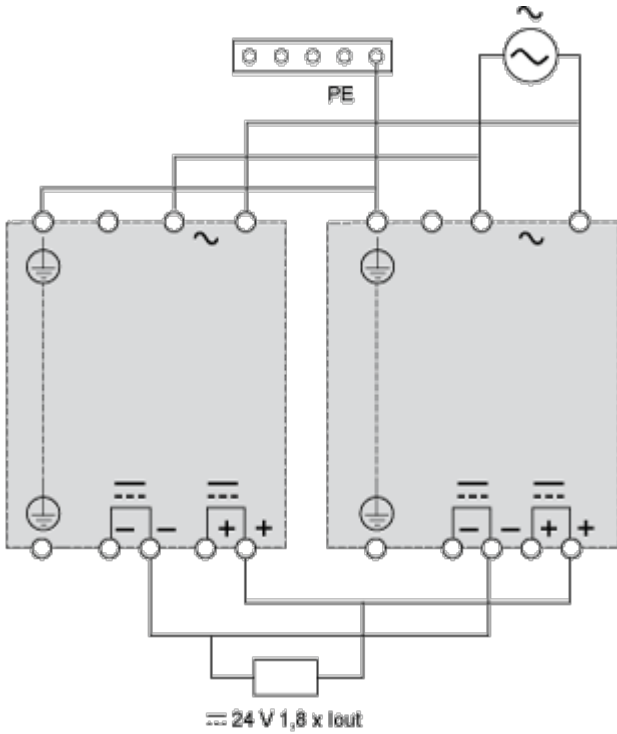
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Paralleling

- 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**

