Product data sheet

Specifications



() Discontinued

Regulated switch power supply, modicon power supply, with auto reset, 1 or 2 phase, 100...240V AC, 24V, 2.5A

ABL7RM24025

() Discontinued on: Jan 23, 2021

Product availability: Stock - Normally stocked in distribution facility

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Range of Product	Modicon Power Supply
Product or Component Type	Power supply
Power supply type	Regulated switch mode
Nominal input voltage	100240 V AC phase to phase L1-L2 100240 V AC single phase N-L1
Kw Rating	60 W
Output voltage	24 V DC
Power supply output current	2.5 A
Anti-harmonic filter	Low frequency harmonic currents

Complementary

Efficiency at full load	85264 V AC
Input protection type	Integrated fuse (not interchangeable)
Inrush current	90 A
Power factor	0.5 at 24 V DC
Efficiency	84 %
Output voltage adjustment	22.228.8 V adjustable
Power dissipation in W	11.4 W
Current consumption	0.7 A 240 V AC
Provided equipment	Power factor correction filter IEC 61000-3-2
Residual ripple	200 mV
Output protection type	Against undervoltage, protection technology: tripping if U < 19 V Against short-circuits
Connections - terminals	Screw type terminals 2 x 0.142 x 2.5 mm ² , AWG 26AWG 14) input connection Screw type terminals 4 x 0.144 x 2.5 mm ² , AWG 26AWG 14) output connection
Status LED	1 LED (Green) output voltage
Depth	2.3 in (59 mm)
Height	3.9 in (100 mm)
Width	2.9 in (74 mm)
Net Weight	0.562 lb(US) (0.255 kg)

Price is "List Price" and may be subject to a trade discount - check with your local distributor or retailer for actual price.

Output coupling	Series Parallel
Marking	CE
Mounting support	35 x 7.5 mm symmetrical DIN rail panel 2 screws, diameter : 4 mm 35 x 15 mm symmetrical DIN rail
Operating position	Vertical
Supply	SELV IEC 60950-1 SELV IEC 60204-1 SELV IEC 60364-4-41
Dielectric strength	3000 V with between input and output
Environment	

Standards CSA C22.2 No 60950-1 UL 508 EN/IEC 62368-1 Product certifications EAC CULus 508 TUV 60950-1 RCM KC Environmental characteristic EMC conforming to EN 55022 Class B EMC conforming to IEC 61000-6-3 EMC conforming to IEC 61000-6-2 EMC conforming to EN/IEC 61204-3 Safety conforming to IEC 60950-1 **Operating altitude** 6561.68 ft (2000 m) IP degree of protection IP20 conforming to IEC 60529 Ambient air temperature for -13...131 °F (-25...55 °C) without derating mounting position A < 6561.68 ft (2000 m) operation 131...158 °F (55...70 °C) with derating factor mounting position A < 6561.68 ft (2000 m)

Ordering and shipping details

Category	US1CP1222525
Discount Schedule	CP12
GTIN	3389119404600
Returnability	No
Country of origin	US

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.68 in (6.8 cm)
Package 1 Width	3.27 in (8.3 cm)
Package 1 Length	4.25 in (10.8 cm)
Package 1 Weight	11.2 oz (318 g)

Contractual warranty

Warranty

18 months

L 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 Disclosure

Product Environmental Profile

Use Better

Intervals and Substances	
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
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 Again	

\circlearrowright Repack and remanufacture	

Circularity Profile

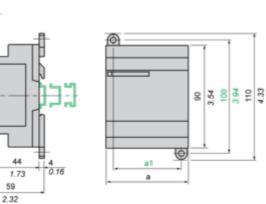
End of Life Information

Dimensions Drawings

Regulated Switch Mode Power Supplies

Dimensions

mm in.



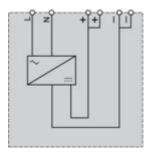
	a in mm	a in in.	a1 in mm	a1 in in.
ABL8MEM05040	54	2.12	42	1.65
ABL8MEM12020	54	2.12	42	1.65
ABL8MEM24003	36	1.41	24	0.94
ABL8MEM24006	36	1.41	24	0.94
ABL8MEM24012	54	2.12	42	1.65
ABL7RM24025	74	2.91	60	2.36

Life Is On Schneider

Connections and Schema

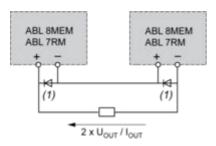
Regulated Switch Mode Power Supply

Internal Wiring Diagram

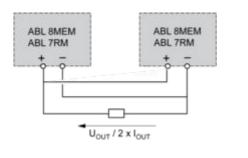


Regulated Switch Mode Power Supplies

Series or Parallel Connection Series Connection



(1) Two Shottky diodes Imin = power supply In and Vmin = 50 V Parallel Connection



Family	Series	Parallel
ABL 7RM/8MEM	2 products max.	2 products max.

NOTE: Series or parallel connection is only recommended for products with identical references.

Product data sheet

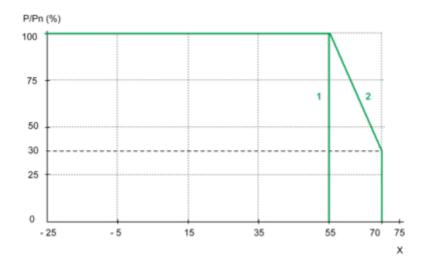
ABL7RM24025

Performance Curves

Regulated Switch Mode Power Supplies

Derating

The ambient temperature is a determining factor that limits the power an electronic power supply can deliver continuously. If the temperature around the electronic components is too high, their life will be significantly reduced. The nominal ambient temperature for the Modular range of Phaseo power supplies is 55°C. Above this temperature, derating is necessary up to a maximum temperature of 70°C (except for the ABL7RM24025 model). The graph below shows the power as a percentage of the nominal power that the power supply can deliver continuously, depending on the ambient temperature.



X Maximum operating temperature (°C)(1) With an ABL7RM24025(2) With an ABL8MEM•••••