Product datasheet

Specifications

Sreen Premium™



regulated SMPS with auto reset - 1 or 2-phase - 100...240 V AC - 24 V - 2.5 A

ABL7RM24025

- () Discontinued on: 11 Nov 2020
- (!) End-of-service on: 25 Jan 2021

EAN Code: 3389119404600

Main

Modicon Power Supply
Power supply
Regulated switch mode
100240 V AC phase to phase, terminal(s): L1-L2 100240 V AC single phase, terminal(s): N-L1
60 W
24 V DC
2.5 A
Low frequency harmonic currents

Complementary

Input Voltage Limits	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 conforming to 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) for input connection Screw type terminals: 4 x 0.144 x 2.5 mm ² , (AWG 26AWG 14) for output connection		
Status Led	1 LED (green) output voltage		
Depth	59 mm		
Height	100 mm		
Width	74 mm		

Net Weight	0.255 kg	
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 conforming to EN/IEC 60950-1 SELV conforming to EN/IEC 60204-1 SELV conforming to 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 EN 61000-6-3 EMC conforming to EN/IEC 61000-6-2 EMC conforming to EN/IEC 61204-3 Safety conforming to EN/IEC 60950-1	
Operating Altitude	2000 m	
Ip Degree Of Protection	IP20 conforming to EN/IEC 60529	
Ambient Air Temperature For Operation	-2555 °C without derating mounting position A < 2000 m 5570 °C with derating factor mounting position A < 2000 m	

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	6.8 cm
Package 1 Width	8.3 cm
Package 1 Length	10.8 cm
Package 1 Weight	318 g

Contractual warranty

Warranty

18 months

Sustainability Screen Premium

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency RoHS/REACh

Well-being performance

Reach Free Of Svhc
Toxic Heavy Metal Free
Mercury Free
Rohs Exemption Information Yes
Pvc Free

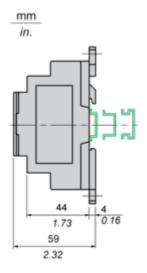
Certifications & Standards

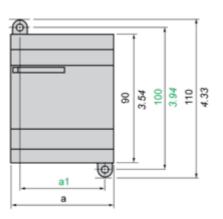
Reach Regulation	REACh Declaration	
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration	
China Rohs Regulation	China RoHS declaration	
Environmental Disclosure	Product Environmental Profile	
Circularity Profile	End of Life Information	

Dimensions Drawings

Regulated Switch Mode Power Supplies

Dimensions



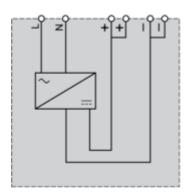


	a in mm	a in in.	a1 in mm	a1 in in.
ABL8MEM05040	54	2.12	42	1.65
ABL8MEM12020	54	2.12	42	1.65
ABL8MEM24003	36	1.41	24	0.94
ABL8MEM24006	36	1.41	24	0.94
ABL8MEM24012	54	2.12	42	1.65
ABL7RM24025	74	2.91	60	2.36

Connections and Schema

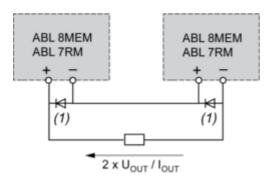
Regulated Switch Mode Power Supply

Internal Wiring Diagram

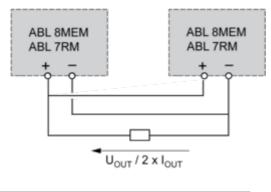


Regulated Switch Mode Power Supplies

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.

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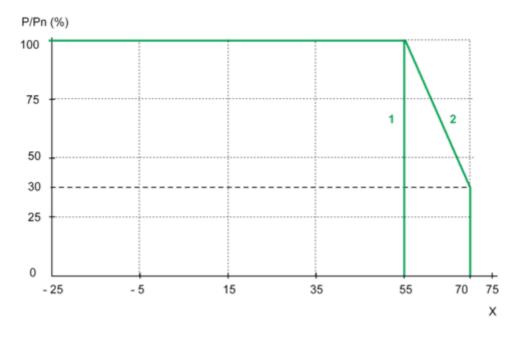
ABL7RM24025

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