

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

ABL7RM24025



! Discontinued on: Nov 12, 2020 AD

# ① Discontinued

Main

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, terminal(s): L1-L2 100240 V AC single phase, terminal(s): N-L1
Rated power in W	60 W
Output voltage	24 V DC
Power supply output current	2.5 A
Anti-harmonic filter	Low frequency harmonic currents

## Complementary

85264 V AC		
Integrated fuse (not interchangeable)		
90 A		
0.5 at 24 V DC		
84 %		
22.228.8 V adjustable		
11.4 W		
0.7 A 240 V AC		
Power factor correction filter conforming to IEC 61000-3-2		
200 mV		
Against undervoltage, protection technology: tripping if U < 19 V Against short-circuits		
Screw type terminals: 2 x 0.142 x 2.5 mm², (AWG 26AWG 14) for input connection  Screw type terminals: 4 x 0.144 x 2.5 mm², (AWG 26AWG 14) for output connection		
1 LED (green) output voltage		
59 mm		
100 mm		
74 mm		
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 IEC 60950-1 SELV conforming to 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 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	2000 m	
IP degree of protection	IP20 conforming to 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

# **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.

How this information helps you >

Environmental Disclosure	Product Environmental Profile

## **Use Better**

EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China RoHS Regulation	China RoHS declaration
PVC free	Yes

## **Use Again**

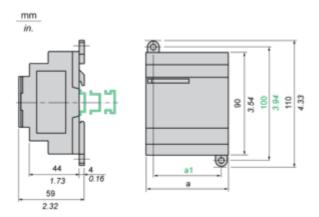
○ Repack and remanufacture	
Circularity Profile	End of Life Information

## ABL7RM24025

## **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

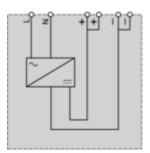
# Product datasheet

## ABL7RM24025

Connections and Schema

## Regulated Switch Mode Power Supply

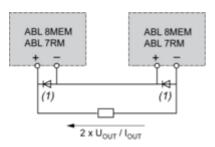
## **Internal Wiring Diagram**



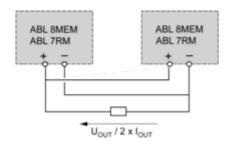
### **Regulated Switch Mode Power Supplies**

#### **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.

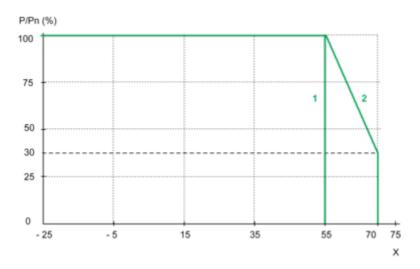
### ABL7RM24025

#### 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 ....