

Main

Mani		
Range of product	Phaseo	
Product or component type	Power supply	
Power supply type	Regulated switch mode	
Input voltage	200240 V AC phase to phase, terminal(s): L1-L2 200240 V AC single phase, terminal(s): N-L1	
Output voltage	24 V DC	
Rated power in W	60 W	
PFC filter	With PFC filter conforming to IEC 61000-3-2	
Input protection type	Integrated fuse (not interchangeable)	
Power supply output current	2.5 A	
Output protection type	Against short-circuits Against undervoltage, protection technology: tripping if U < 19 V	
Ambient air temperature for operation	-2555 °C without derating	

Complementary	
Input voltage limits	170264 V
Network frequency	4763 Hz
Inrush current	<= 90 A for 1 ms
Cos phi	> 0.5
Efficiency	> 84 %
Output voltage limits	22.228.8 V adjustable
Power dissipation in W	11.4 W
Current consumption	0.7 A at 240 V
Line and load regulation	+/- 3 %
Residual ripple	200 mV
Holding time	>= 150 ms at 230 V
Connections - terminals	Screw type terminals for input connection, connection capacity: 2 x 0.142 x 2.5 mm ² AWG gauge2614 Screw type terminals for output connection, connection capacity: 4 x 0.144 x 2.5 mm ² AWG gauge2614
Marking	CE
Mounting support	35 x 15 mm symmetrical DIN rail 35 x 7.5 mm symmetrical DIN rail Panel 2 screws, diameter : 4 mm
Operating position	Vertical
Output coupling	Parallel Series
Name of test	Conducted emissions on the power line conforming to EN 55022 Class B Electrostatic discharges conforming to EN/IEC 61000-4-2 Emission conforming to EN 50081-1 Harmonic current emission conforming to EN/IEC61000-3-2 Induced electromagnetic field conforming to EN/IEC 61000-4-6 Primary outage conforming to IEC 61000-4-11 Radiated electromagnetic field conforming to EN/IEC 61000-4-3 Radiated emissions conforming to EN 55022 Class B Rapid transient conforming to IEC 61000-4-4 Surge conforming to EN/IEC 61000-4-5
Status LED	1 LED green for output voltage

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not inherent or and is not to be used for determining suitability or inhability of these products for specific user applications. It is the dourn aren in integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Product weight

0.255 kg

Environment

Product certifications	C-Tick CULus 508 TUV 60950-1	
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 Safety conforming to SELV	
IP degree of protection	IP20 conforming to EN/IEC 60529	
Ambient air temperature for storage	-4070 °C	
Relative humidity	090 % during operation 095 % in storage	
Class of protection against electric shock	Class II conforming to VDE 0106-1	
Dielectric strength	3000 V between input and output	
RoHS EUR status	Compliant	
RoHS EUR conformity date	0614	

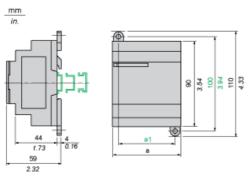


Product data sheet Dimensions Drawings

ABL7RM24025

Regulated Switch Mode Power Supplies

Dimensions

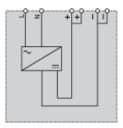


	a in mm	a in in.	a1 in mm	a1 in in.
ABL8MEM05040	54	2.12	42	1.65
ABL8MEM12020	54	2.12	42	1.65
ABL8MEM24003	36	1.41	24	0.94
ABL8MEM24006	36	1.41	24	0.94
ABL8MEM24012	54	2.12	42	1.65
ABL7RM24025	74	2.91	60	2.36

ABL7RM24025

Regulated Switch Mode Power Supply

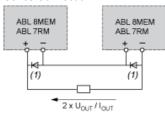
Internal Wiring Diagram



Regulated Switch Mode Power Supplies

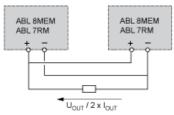
Series or Parallel Connection

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.

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

ABL7RM24025

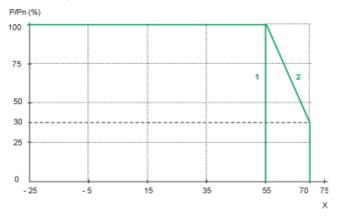
Regulated Switch Mode Power Supplies

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•••••