# **ABL8REM24030**

regulated power supply, Phaseo, 100 to 240 V, 24 V, 3 A



Product availability: Stock - Normally stocked in distribution facility

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	24V 2A
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	Schneider -
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Main		
Range of product	Phaseo	
Product or component type	Power supply	
Power supply type	Regulated switch mode	
Input voltage	100240 V AC phase to phase L1-L2 100240 V AC single phase N-L1 110220 V DC	
Output voltage	24 V DC	
Rated power in W	72 W	
Input protection type	Integrated fuse (not interchangeable)	
Power supply output current	3 A	
Output protection type	Against overload 1.1 x In Against overvoltage tripping if U > 1.5 x Un Against short-circuits automatic reset Against undervoltage tripping if U < 0.8 x Un	
Ambient air temperature for operation	32122 °F (050 °C) without) 122140 °F (5060 °C) with derating factor)	

#### Complementary

85264 V	
85264 V 100250 V	
4763 Hz	
30 A	
0.65	
85 %	
100120 % adjustable	
12.7 W	
0.83 A 240 V 1.46 A 100 V	
+/- 3 %	
>= 10 ms 100 V >= 10 ms 240 V	
Input connection screw type terminals 2 x 0.142 x 2.5 mm² AWG 26AWG 14 Input ground connection screw type terminals 1 x 0.141 x 2.5 mm² AWG 26AWG 14  Output connection screw type terminals 2 x 0.142 x 2.5 mm² AWG 26AWG 14  Output ground connection screw type terminals 1 x 0.141 x 2.5 mm² AWG 26AWG 14	
CE	
35 x 15 mm symmetrical DIN rail 35 x 7.5 mm symmetrical DIN rail 75 x 7.5 mm symmetrical DIN rail	
Vertical	
6561.68 ft (2000 m)	
Parallel Series	

Name of test	Electrostatic discharges EN/IEC 61000-4-2 Induced electromagnetic field EN/IEC 61000-4-6 Primary outage IEC 61000-4-11 Radiated electromagnetic field EN/IEC 61000-4-3 Rapid transient IEC 61000-4-4 Surge EN/IEC 61000-4-5 Emission EN 50081-1 Conducted/Radiated emissions EN 55011 Conducted/radiated emissions EN 55022 class B	
Status LED	Output voltage 1 LED green) Input voltage 1 LED orange)	
Depth	4.72 in (120 mm)	
Height	4.72 in (120 mm)	
Width	1.06 in (27 mm)	
Net weight	1.15 lb(US) (0.52 kg)	

#### Environment

MTBF reliability	110 V with MIL-HDBK-217F	
2	220 V with MIL-HDBK-217F	
Product certifications	CSA 22-2 No 950	
	EAC	
	RCM	
	KC	
	UL	
Standards	UL 508	
	CSA C22.2 No 60950-1	
Environmental characteristic	EMC EN 50081-1	
	EMC EN 50082-2	
	EMC EN 55024	
	Safety EN/IEC 60950	
	Safety SELV	
IP degree of protection	IP20 EN/IEC 60529	
Ambient air temperature for storage	-13158 °F (-2570 °C)	
Relative humidity	095 % without condensation or dripping water	
Overvoltage category	Class II IEC 60664-1	
Dielectric strength	3000 V between input and ground	
	3000 V between input and output	
	500 V between output and ground	
	500 V between outputs	

# Ordering and shipping details

Category	22525 - ABL8 AND ABL7 POWER SUPPLIE	
Discount Schedule	CP12	
GTIN	00785901616849	
Package weight(Lbs)	0.56 kg (1.24 lb(US))	
Returnability	Yes	
Country of origin	CN	

## Offer Sustainability

Onor Cactamability		
Sustainable offer status	Green Premium product	
REACh Regulation	☑ REACh Declaration	
REACh free of SVHC	Yes	
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EPEU RoHS Declaration	
Mercury free	Yes	
RoHS exemption information	€	
China RoHS Regulation	☑ China RoHS Declaration	
Environmental Disclosure	Product Environmental Profile	
Circularity Profile	End Of Life Information	

Warranty 18 months

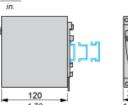
# Product data sheet Dimensions Drawings

# **ABL8REM24030**

#### Regulated Switch Mode Power Supply

#### **Dimensions and Mounting**

Mounting on a 35 mm/1.37 in. or 75 mm/2.95 in. Rail

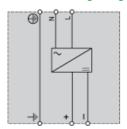




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#### Regulated Switch Mode Power Supply

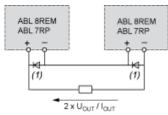
#### Internal Wiring Diagram



#### Regulated Switch Mode Power Supplies

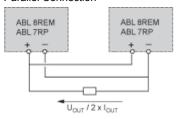
#### Series or Parallel Connection

#### Series Connection



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

#### Parallel Connection



Family	Series	Parallel
ABL 8REM/7RP	2 products max.	2 products max.

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

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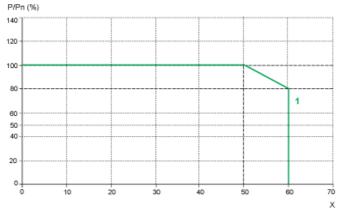
#### Regulated Switch Mode Power Supplies

#### 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 Optimum range of Phaseo power supplies is 50 °C. Above this temperature, derating is necessary up to a maximum temperature of 60 °C.

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.



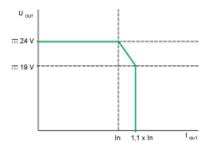
- X Maximum operating temperature (°C)
- (1) ABL 8REM, ABL 7RP mounted vertically

Derating should be considered in extreme operating conditions:

- Intensive operation (output current permanently close to the nominal current, combined with a high ambient temperature)
- Output voltage set above 24 Vdc (to compensate for line voltage drops, for example)
- Parallel connection to increase the total power

#### Regulated Switch Mode Power Supply

#### Load Limit



#### Regulated Switch Mode Power Supply

### **Temporary Overloads**

