ABL1RPM24062

regulated SMPS - single phase - 100..240 V input - 24 V output - 150 W



Main

Mairi	
Range of product	Phaseo Dedicated
Product or component type	Power supply
Power supply type	Regulated switch mode
Rated power in W	150 W
Input voltage	180370 V DC 200240 V AC single phase 100120 V AC single phase
Output voltage	24 V DC
Power supply output current	6.2 A
Operating position	Any position
Vibration resistance	3.5 mm (f = 59 Hz) conforming to EN/IEC 61131-2 2 gn (f = 9150 Hz) conforming to EN/IEC 61131-2
Name of test	Surge conforming to EN/IEC 61000-4-5 Primary outage conforming to IEC 61000-4-11 Emission conforming to EN/IEC 61000-6-3 Conducted/Radiated emissions conforming to EN/ IEC 55011 Conducted/Radiated emissions conforming to EN 55022 Class B Rapid transient conforming to IEC 61000-4-4 level 3 Radiated electromagnetic field conforming to EN/ IEC 61000-4-3 level 3 Induced electromagnetic field conforming to EN/IEC 61000-4-6 level 3 Electrostatic discharges conforming to EN/IEC 61000-4-2 level 3 Conducted interference conforming to EN 61000-4-8 level 4

Complementary

Complementary		
Input voltage limits	170264 V 85132 V	
Network frequency limits	4763 Hz	
Inrush current	<= 100 A at 230 V AC <= 50 A at 115 V AC	
Cos phi	0.70.95	
Efficiency	> 80 %	
Power dissipation in W	37.5 W	
Current consumption	2.5 A at 240 V 5 A at 100 V	
Input protection type	Integrated fuse (not interchangeable)	
Output voltage limits	21.626.4 V	
Line and load regulation	+/- 3 %	
Holding time	>= 40 ms at 240 V >= 10 ms at 100 V	
Output protection type	Thermal Against short-circuits, protection technology: automatic reset Against overvoltage, protection technology: tripping if U > 1.25 x Un Against overload, protection technology: 1.11.5 x In	
Connections - terminals	Screw type terminals for output connection, connection capacity: 4 x 4 mm ² AWG gauge12 Screw type terminals for input connection, connection capacity: 2 x 4 mm ² AWG gauge12 Screw type terminals for ground connection, connection capacity: 1 x 4 mm ² AWG gauge12	

Marking	CE
Mounting support	Panel Reversible mounting bracket
Output coupling	Parallel Series
Overvoltage category	II
Meantime between failure (MTBF)	> 100000 h at 40 °C
Status LED	1 LED green for output voltage
Product weight	0.97 kg

Environment

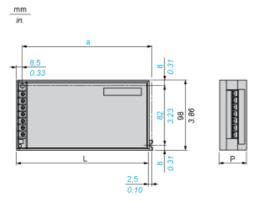
Product certifications	CCSAus	
	CSA 22-2 No 60950-1	
	C-Tick	
	TUV 60950-1	
	UL 508	
Environmental characteristic	Low frequency harmonic currents conforming to EN/IEC 61000-3-2	
	Safety conforming to SELV	
	Safety conforming to EN/IEC 60950-1	
	EMC conforming to EN/IEC 61000-6-2	
	EMC conforming to EN 61000-6-3	
	EMC conforming to EN 50082-2	
	EMC conforming to EN 50081-1	
IP degree of protection	IP20 conforming to EN/IEC 60950	
Ambient air temperature for operation	4560 °C with derating factor	
	045 °C without derating factor	
Ambient air temperature for storage	-2585 °C	
Relative humidity	2090 %	
Class of protection against electric shock	Class I conforming to VDE 0106-1	
Pollution degree	2	
Dielectric strength	500 V between output and ground	
	3000 V between input and output	
	1500 V between input and ground	



Product data sheet Dimensions Drawings

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Dimensions



Dimensions in mm

а	L	Р
194	200	50

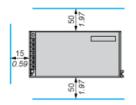
Dimensions in in.

а	L	Р
7.64	7.87	1.97

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Clearance

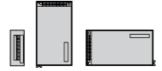






Mounting Way

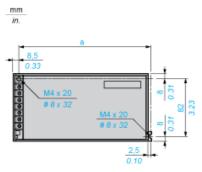
Mounting on Vertical Plane



Mounting on Horizontal Plane



Direct Mounting by 2 M4 x 20 Screws



Dimensions in mm

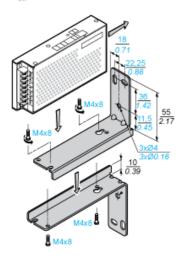
а		
194		

Dimensions in in



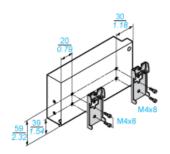
Mounting on the Back on ABL 1A01 Reversible Bracket by Three 4 mm Diameter Screws





Mounting on ABL 1A02 Clip-on Mounting on 35 mm Rail





Mounting by the Back



Dimensions in mm

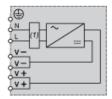
b	С
28	48

Dimensions in in.

b	c
1.10	1.89

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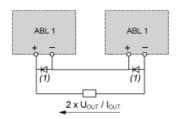
Internal Wiring Diagram



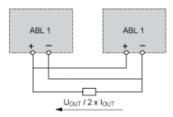
(1) Filter

Series or Parallel Connection

Series Connection



Parallel Connection



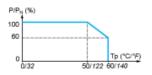
(1) 15 A/100 V Shottky diode

Product data sheet Performance Curves

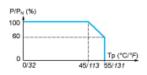
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Derating Curves

Mounting on Vertical Plane



Mounting on Horizontal Plane



Load Limits Curve

