

ABL1REM24100

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



Main

Range of product	Phaseo Dedicated
Product or component type	Power supply
Power supply type	Regulated switch mode
Rated power in W	240 W
Input voltage	100...120 V AC single phase 180...370 V DC 200...240 V AC single phase
Output voltage	24 V DC
Power supply output current	10 A
Operating position	Any position
Vibration resistance	2 gn (f = 9...150 Hz) conforming to EN/IEC 61131-2 3.5 mm (f = 5...9 Hz) conforming to EN/IEC 61131-2
Name of test	Conducted interference conforming to EN 61000-4-8 level 4 Conducted/radiated emissions conforming to EN 55022 Class B Conducted/radiated emissions conforming to EN/IEC 55011 Electrostatic discharges conforming to EN/IEC 61000-4-2 level 3 Emission conforming to EN/IEC 61000-6-3 Induced electromagnetic field conforming to EN/IEC 61000-4-6 level 3 Primary outage conforming to IEC 61000-4-11 Radiated electromagnetic field conforming to EN/IEC 61000-4-3 level 3 Rapid transient conforming to IEC 61000-4-4 level 3 Surge conforming to EN/IEC 61000-4-5

Complementary

Input voltage limits	170...264 V 85...132 V
Network frequency limits	47...63 Hz
Inrush current	<= 50 A at 115 V AC <= 100 A at 230 V AC
Cos phi	0.65
Efficiency	> 80 %
Power dissipation in W	60 W
Current consumption	3 A at 240 V 6 A at 100 V
Input protection type	Integrated fuse (not interchangeable)
Output voltage limits	21.6...26.4 V
Line and load regulation	+/- 3 %
Residual ripple	
Holding time	>= 10 ms at 100 V >= 40 ms at 240 V
Output protection type	Against overload, protection technology: 1.1...1.5 x In Against overvoltage, protection technology: tripping if U > 1.25 x Un Against short-circuits, protection technology: automatic reset Thermal
Connections - terminals	Screw type terminals for ground connection, connection capacity: 1 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 output connection, connection capacity: 4 x 4 mm ² AWG

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	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	0.88 kg

Environment

Product certifications	CCSAus CSA 22-2 No 60950-1 C-Tick TUV 60950-1 UL 508
Environmental characteristic	EMC conforming to EN 50081-1 EMC conforming to EN 50082-2 EMC conforming to EN 61000-6-3 EMC conforming to EN/IEC 61000-6-2 Safety conforming to EN/IEC 60950-1 Safety conforming to SELV
IP degree of protection	IP20 conforming to EN/IEC 60950
Ambient air temperature for operation	0...45 °C without derating factor 45...60 °C with derating factor
Ambient air temperature for storage	-25...85 °C
Relative humidity	20...90 %
Class of protection against electric shock	Class I conforming to VDE 0106-1
Pollution degree	2
Dielectric strength	1500 V between input and ground 3000 V between input and output 500 V between output and ground