Product data sheet
Characteristics

ABL1REM12050
regulated SMPS - single phase - 100..240 V input - 12 V output - 60 W

Product availability : Stock - Normally stocked in distribution facility

Price* : 113.00 USD



Main

Range of product	Phaseo Dedicated
Product or component type	Power supply
Power supply type	Regulated switch mode
Rated power in W	60 W
Input voltage	AC single phase DC
Output voltage	12 V DC
Power supply output current	5 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	85...264 V
Network frequency	47...63 Hz
Inrush current	<= 50 Aat 115 V AC <= 100 Aat 230 V AC
Cos phi	0.65
Efficiency	> 80 %

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Power dissipation in W	15 W
Current consumption	1 Aat 240 V 2 Aat 100 V
Input protection type	Integrated fuse (not interchangeable)
Output voltage limits	10.8...13.2 V
Line and load regulation	+/- 3 %
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 ground connection, connection capacity: 1 x 4 mm² AWG 12 Screw type terminals input connection, connection capacity: 2 x 4 mm² AWG 12 Screw type terminals output connection, connection capacity: 2 x 4 mm² AWG 12
Marking	CE
Mounting support	Panel Reversible mounting bracket
Operating altitude	6561.68 ft (2000 m)
Output coupling	Series Parallel
Overvoltage category	II
Meantime between failure (MTBF)	> 100000 hat 104 °F (40 °C)
Status LED	1 LED green output voltage
Product weight	0.97 lb(US) (0.44 kg)

Environment

Product certifications	EAC CSA 22-2 No 60950-1 TUV 60950-1 KC RCM UL 508 CCSAus
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	32...113 °F (0...45 °C) without derating factor 113...140 °F (45...60 °C) with derating factor
Ambient air temperature for storage	-13...185 °F (-25...85 °C)
Relative humidity	20...90 %
Overvoltage category	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

Ordering and shipping details

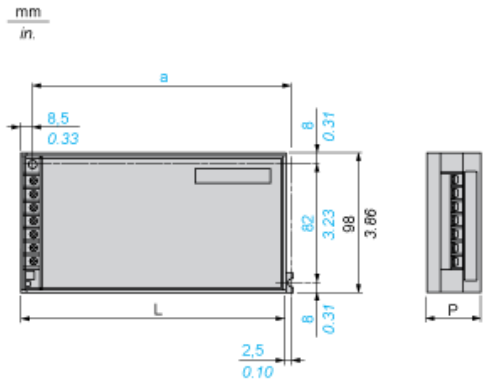
Category	22524 - ABL1 DEDICATED POWER SUPPLIES
Discount Schedule	CP12
GTIN	00785901577423
Nbr. of units in pkg.	1
Package weight(Lbs)	1.21
Returnability	Y
Country of origin	CN

Contractual warranty

Warranty period	18 months

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Dimensions



Dimensions in mm

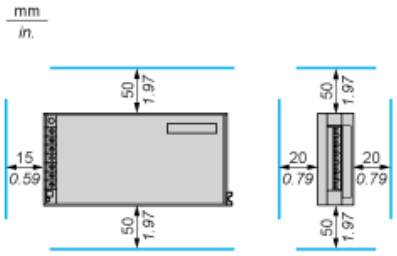
a	L	P
144	150	38

Dimensions in in.

a	L	P
5.67	5.91	1.50

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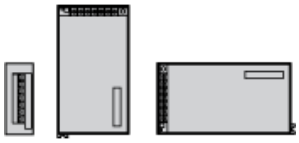
Clearance



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Mounting Way

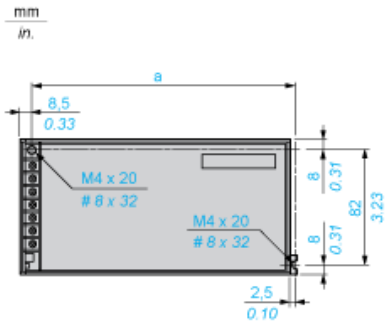
Mounting on Vertical Plane



Mounting on Horizontal Plane



Direct Mounting by 2 M4 x 20 Screws



Dimensions in mm

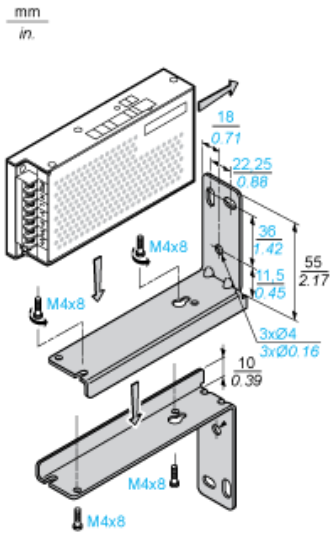
a
144

Dimensions in in

a
5.67

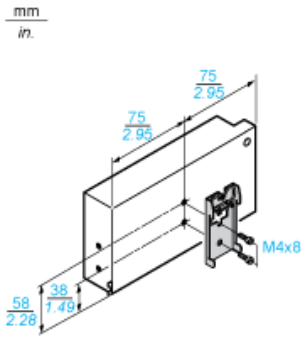
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Mounting on the Back on ABL 1A01 Reversible Bracket by Three 4 mm Diameter Screws



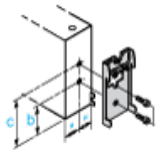
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Mounting on ABL 1A02 Clip-on Mounting on 35 mm Rail



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Mounting by the Back



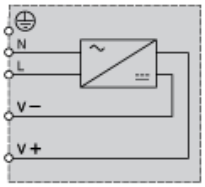
Dimensions in mm

b	c
38	58

Dimensions in in.

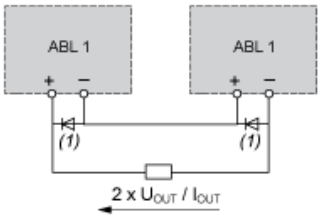
b	c
1.50	2.28

Internal Wiring Diagram

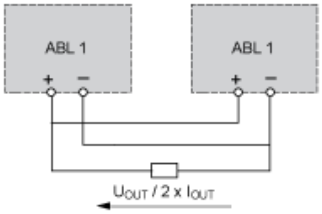


Series or Parallel Connection

Series Connection



Parallel Connection

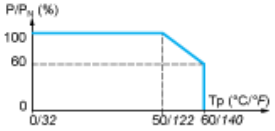


(1) 8 A/100 V Shottky diode

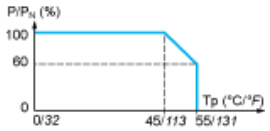
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Derating Curves

Mounting on Vertical Plane



Mounting on Horizontal Plane



Load Limits Curve

