

Product data sheet

Characteristics

ABL4WSR24300

regulated SMPS - 3 phase - 400..500 V AC -
24 V - 30A



Main

Range of product	Phaseo
Product or component type	Power supply
Power supply type	Regulated switch mode
Input voltage	507...770 V DC 400...500 V AC three phase , terminal(s): L1, L2, L3
Output voltage	24 V DC
Rated power in W	720 W
Power supply output current	30 A
Output protection type	Thermal Against overvoltage Against short-circuits , protection technology: automatic reset Against overload , protection technology: 33 V
Ambient air temperature for operation	-20...60 °C without derating

Complementary

Input voltage limits	340...550 V
Network frequency	47...63 Hz
Inrush current	<= 10 A
Cos phi	> 0.75
Efficiency	> 93...< 94 %
Output voltage limits	100...116 % adjustable
Power dissipation in W	65 W 70 W
Current consumption	1.8 A at 500 V 2.1 A at 400 V
Line and load regulation	+/- 0.5 %
Residual ripple	<= 50 mV
Holding time	>= 15 ms at 500 V >= 20 ms at 400 V
Permissible temporary current boost	1.5 x In for 5 seconds
Connections - terminals	Screw type terminals for input connection , connection capacity: 2 x 0.5...2 x 4 mm ² AWG gauge24...10 Screw type terminals for input ground connection , connection capacity: 1 x 0.5...1 x 4 mm ² AWG gauge24...10 Screw type terminals for output connection , connection capacity: 2 x 0.5...2 x 4 mm ² AWG gauge24...10 Removable screw terminal block for diagnostic relay , connection capacity: 2 x 0.5...2 x 4 mm ² AWG gauge24...10
Marking	CE
Mounting support	35 x 15 mm symmetrical DIN rail 35 x 7.5 mm symmetrical DIN rail
Operating position	Vertical
Output coupling	Parallel Series

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Name of test	Electrostatic discharges conforming to EN/IEC 61000-4-2 Induced electromagnetic field conforming to EN/IEC 61000-4-6 Magnetic field conforming to EN 61000-4-8 Primary outage conforming to IEC 61000-4-11 Radiated electromagnetic field conforming to EN/IEC 61000-4-3 Radiated emissions conforming to EN 55011 class A Rapid transient conforming to IEC 61000-4-4 Surge conforming to EN/IEC 61000-4-5 Conducted emissions on the power line conforming to EN 55011 class A
Status LED	1 LED green for output voltage (> 21.6 V) 1 LED red for overload, overtemperature, overvoltage
Product weight	1.3 kg

Environment

Product certifications	CSA C22-2 No 14 CULus 508
Environmental characteristic	EMC conforming to EN 50081-1 EMC conforming to EN 50082-2 EMC conforming to EN/IEC 61000-6-2 Safety conforming to EN/IEC 60950 Safety conforming to SELV
IP degree of protection	IP20 conforming to EN/IEC 60529
Ambient air temperature for storage	-25...80 °C
Relative humidity	0...90 % during operation 0...95 % in storage
Class of protection against electric shock	Class I conforming to VDE 0106-1
Dielectric strength	2000 V between input and ground 3000 V between input and output 500 V between output and ground