Product data sheet
Characteristics

ASIABLM3024
regulated switch mode power supply - AS-I - 100..240 V - 30+24 V - 2.4+3 A

Main

Range of product	Phaseo AS-Interface
Product or component type	Power supply
Power supply type	Regulated switch mode
Output voltage	30 V DC for AS-Interface line 24 V DC for control equipment
Rated power in W	72 W at 30 V 72 W at 24 V
Input voltage	100...240 V AC single phase, terminal(s): N-L1 100...240 V AC phase to phase, terminal(s): L1-L2
Power supply output current	2.4 A at 30 V 3 A at 24 V
Operating position	Vertical

Complementary

Input voltage limits	85...264 V
Network frequency limits	47...63 Hz
Input voltage tolerance	- 15...10 %
Inrush current	< 30 A
Cos phi	0.65
Efficiency	> 83 % at 30 V > 80 % at 24 V
Power dissipation in W	14.7 W at 30 V 36 W at 24 V
Current consumption	1 A
Input protection type	Integrated fuse (not interchangeable)
Output voltage limits	100...120 % adjustable
Line and load regulation	3 %
Residual ripple	300 mV
Holding time	>= 10 ms
Output protection type	Against undervoltage, protection technology: tripping if U < 0.95 x Un, output voltage = 30 V Against undervoltage, protection technology: tripping if U < 0.8 x Un, output voltage = 24 V Against short-circuits, protection technology: automatic reset Against overvoltage, protection technology: tripping if U > 1.5 x Un, output voltage = 24 V Against overvoltage, protection technology: tripping if U > 1.2 x Un, output voltage = 30 V Against overload, protection technology: 1.1 x In
Connections - terminals	Screw type terminals for output ground connection, connection capacity: 2 x 2.5 mm², number of terminals = 2, cable cross section = 2.5 mm²AWG gauge14 Screw type terminals for input ground connection, connection capacity: 1 x 2.5 mm², number of terminals = 1, cable cross section = 2.5 mm²AWG gauge14 Screw type terminals for input connection, connection capacity: 2 x 2.5 mm², number of terminals = 2, cable cross section = 2.5 mm²AWG gauge14 Screw type terminals for AS-Interface line, connection capacity: 4 x 2.5 mm², number of terminals = 4, cable cross section = 2.5 mm²AWG gauge14
Mounting support	35 mm symmetrical DIN rail 75 mm symmetrical DIN rail

Name of test	Vibration conforming to EN/IEC 61131-2 Rapid transient conforming to IEC 61000-4-4 level 3 Radiated electromagnetic field conforming to EN/IEC 61000-4-3 Primary outage conforming to IEC 61000-4-11 Induced electromagnetic field conforming to EN/IEC 61000-4-6 Emission conforming to EN 61000-6-3 Electrostatic discharges conforming to EN/IEC 61000-4-2 Conducted/Radiated emissions conforming to EN 55022 Class B
Meantime between failure (MTBF)	> 100000 h at 40 °C
Status LED	1 LED orange for input voltage 1 LED green for output voltage (30 V) 1 LED green for output voltage (24 V)
Product weight	1.3 kg

Environment

Product certifications	CSA 22-2 No 950 TUV 60950-1 UL 508
Environmental characteristic	Safety conforming to EN 60950-1 EMC conforming to EN/IEC 61000-6-2 EMC conforming to EN 55022 Class B EMC conforming to EN 50081-1
IP degree of protection	IP20 conforming to EN/IEC 60529
Ambient air temperature for operation	50...60 °C with derating factor 0...50 °C without derating factor
Ambient air temperature for storage	-25...70 °C
Relative humidity	0...95 % without condensation or dripping water
Dielectric strength	500 V between outputs 500 V between output and ground 3000 V between input and output 3000 V between input and ground