Specifications

Photo is representative

Eaton EP-401404

Eaton PSL Power supply unit, Single-phase, 90 - 264 V AC / 24 V DC, 2.5 A, 60 W

General Specifications	
PRODUCT NAME	Eaton PSL power supply unit
CATALOG NUMBER	EP-401404
PRODUCT LENGTH/DEPTH	91 mm
PRODUCT HEIGHT	55.6 mm
PRODUCT WIDTH	71 mm
PRODUCT WEIGHT	0.22 kg
CERTIFICATIONS	IEC 62368-1 EN 55032 CISPR 35/EN 55035 EN 61000-3-2 EN 61000-3-3 IEC/EN 61000-4-2 IEC/EN 61000-4-3 IEC 61000-4-4 IEC 61000-4-5 IEC 61000-4-6 IEC 61000-4-8: 2010 EN 61000-4-11 EN IEC 63000 RoHS conform REACH TSCA P65 SELV (EN 60950) CE: In conformance with EMC Directive 2014/30/EU and Low Voltage Directive 2006/95/EC BS EN 62368-1 UL 62368-1 EN 61000-4-12: 2017 EN 61000-6-1: 2007 EN 61000-6-3 EN 61010-1 EN 61010-2-201: 2018 IEC/EN 61204-3 CSA C22.2 No. 61010-2-201 UL 61010-2-201
CATALOG NOTES	Power supply can operate at DC input voltage, please connect +pole to L, -pole to N and PE terminal to an earth wire or to the machine ground.
UPC	786676040242
MODEL CODE	PSL60E24RP

Powering Business Worldwide

Product specifications

POWER CONSUMPTION	68 W
PHASE	Single-phase
NOMINAL OUTPUT VOLTAGE 1	24 V
NOMINAL OUTPUT VOLTAGE 2	0 V
NOMINAL OUTPUT VOLTAGE 3	0 V
VOLTAGE TYPE (SUPPLY VOLTAGE)	AC
FEATURES	Output voltage stabilized
10.10 TEMPERATURE RISE	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.11 SHORT-CIRCUIT RATING	Is the panel builder's responsibility.
10.12 ELECTROMAGNETIC COMPATIBILITY	Is the panel builder's responsibility.
10.13 MECHANICAL FUNCTION	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.
10.2.2 CORROSION RESISTANCE	Meets the product standard's requirements.
10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES	Meets the product standard's requirements.
10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT	Meets the product standard's requirements.
10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS	Meets the product standard's requirements.
10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION	Meets the product standard's requirements.
10.2.5 LIFTING	Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 MECHANICAL IMPACT	Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 INSCRIPTIONS	Meets the product standard's requirements.
10.3 DEGREE OF PROTECTION OF ASSEMBLIES	Meets the product standard's requirements.
10.4 CLEARANCES AND CREEPAGE DISTANCES	Meets the product standard's requirements.
10.5 PROTECTION AGAINST ELECTRIC	Does not apply, since the entire switchgear needs to be

Resources

CATALOGUES	eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf
DECLARATIONS OF CONFORMITY	DA-DC-00005055.pdf DA-DC-00005045.pdf
FLYERS	eaton-psg-psl-power-supplies-fl049002-en-us.pdf
INSTALLATION INSTRUCTIONS	eaton-power-supply-units-1-phase-psl60e24rp-il125029zu.pdf
MCAD MODEL	eaton-psl60e24rp-3d-model.stp eaton-psl60e24rp-drawing.dwg

SHOCK	evaluated.
10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS	Does not apply, since the entire switchgear needs to be evaluated.
10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS	Is the panel builder's responsibility.
10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	Is the panel builder's responsibility.
10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH	Is the panel builder's responsibility.
10.9.3 IMPULSE WITHSTAND VOLTAGE	Is the panel builder's responsibility.
10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL	Is the panel builder's responsibility.
ELECTRIC CONNECTION TYPE	Screw connection
POLLUTION DEGREE	2
BURST IMPULSE	2 kV, according to IEC/EN 61000-4-4, Level 3
CLIMATIC PROOFING	< 95 % relative humidity at +25 °C, no condensation
ENCLOSURE MATERIAL	Plastic
ALTITUDE	Max. 2000 m
OUTPUT VOLTAGE	24 V
DEGREE OF PROTECTION	IP20 NEMA 1
OUTPUT VOLTAGE AT DC - MIN	24 V
RATED FREQUENCY - MAX	63 Hz
RATED FREQUENCY - MIN	47 Hz
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	0 A
RATED OUTPUT POWER	60 W
SUPPLY VOLTAGE AT AC, 50 HZ - MAX	264 VAC
SUPPLY VOLTAGE AT AC, 50 HZ - MIN	90 VAC
SUPPLY VOLTAGE AT AC, 60 HZ - MAX	264 VAC
SUPPLY VOLTAGE AT AC, 60 HZ - MIN	90 VAC
SUPPLY VOLTAGE AT DC - MAX	375 VDC
SUPPLY VOLTAGE AT DC - MIN	125 VDC
WIDTH IN NUMBER OF MODULAR SPACINGS	4
PRODUCT CATEGORY	Power supply
CONTACT DISCHARGE	4 kV, according to IEC/EN

	61000-4-2, Level 3, ESD
OVERVOLTAGE CATEGORY	II
CAPACITIVE LOAD	3000 µF max. Capacitive load starting, Output characteristic
POWER OUTPUT	60 W
SAFETY PERFORMANCE LEVEL (EN ISO 13849-1)	None
SIL (IEC 61508)	None
TRIPPING CHARACTERISTIC	B
AMBIENT OPERATING TEMPERATURE - MAX	71 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
AMBIENT STORAGE TEMPERATURE - MAX	85 °C
AMBIENT STORAGE TEMPERATURE - MIN	-25 °C
BUILT-IN HEIGHT	91 mm
BUILT-IN WIDTH	71 mm
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID	8 W
HEAT DISSIPATION CAPACITY PDISS	8 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	8 W
INPUT VOLTAGE AT AC 50 HZ - MAX	264 V
INPUT VOLTAGE AT AC 50 HZ - MIN	90 V
INPUT VOLTAGE AT AC 60 HZ - MAX	264 V
INPUT VOLTAGE AT AC 60 HZ - MIN	90 V
INPUT VOLTAGE AT DC - MAX	375 V
INPUT VOLTAGE AT DC - MIN	125 V
NOMINAL OUTPUT CURRENT 1	2.5 A
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE AWG)	Input / output: 22 - 12
PROTECTION CLASS	2 (IEC/EN 60536)
VOLTAGE TOLERANCE	± 2 %, Rated output voltage
RELATIVE HUMIDITY	5 - 95 % (non-condensing)
RESIDUAL RIPPLE	< 100 mVpp (PARD at 20 MHz)
INRUSH CURRENT	< 30 A at 115 V AC (Inrush current limitation I^2t (+25 °C)) < 60 A at 230 V AC (Inrush current limitation I^2t (+25 °C))
SUPPLY FREQUENCY	50/60 Hz, Input, Rated value

	47 Hz, Input, min. Range 63 Hz, Input, max. Range
INSULATION RESISTANCE	3 kV AC (input/output)
EFFICIENCY	> 88 % (115 V AC) > 88 % (230 V AC)
VIBRATION RESISTANCE	10 - 500 Hz at 30 m/s² (3 G max) for 60 min. in X-axis, Y-axis, Z-axis directions, (IEC/EN 60068-2-6)
RAMP/RUN-UP TIME	< 2000 ms
LEAKAGE CURRENT AT GROUND IPE - MAX	< 0.25 mA (at 240 V AC)
LED INDICATOR	Status indication of "DC OK": Green LED
MEAN TIME BETWEEN FAILURES (MTBF)	> 500,000 h
NOMINAL OUTPUT CURRENT 2	0 A
NOMINAL OUTPUT CURRENT 3	0 A
NUMBER OF PHASES	1
OUTPUT CURRENT 1 - MAX	2.5 A
OUTPUT CURRENT 2 - MAX	0 A
OUTPUT CURRENT 3 - MAX	0 A
OUTPUT CURRENT AT AC, 50 HZ - MAX	2.5 A
OUTPUT CURRENT AT AC, 60 HZ - MAX	2.5 A
OUTPUT CURRENT AT DC - MAX	2.5 A
OUTPUT VOLTAGE 1 - MAX	24 V
OUTPUT VOLTAGE 1 - MIN	24 V
OUTPUT VOLTAGE 2 - MAX	0 V
OUTPUT VOLTAGE 2 - MIN	0 V
OUTPUT VOLTAGE 3 - MAX	0 V
OUTPUT VOLTAGE 3 - MIN	0 V
OUTPUT VOLTAGE AT DC - MAX	24 V
SHOCK RESISTANCE	4 g, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 22 ms, 9 Impacts
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	Input / output: 0.32 - 3.3 mm²

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	

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