Eaton EP-401399

Eaton PSG Power supply unit, Three-phase, 320 - 575 V AC / 24 V DC, 10 A, 240 W

PRODUCT NAME	Eaton PSG power supply unit
CATALOG NUMBER	EP-401399
UPC	786689860738
PRODUCT LENGTH/DEPTH	124 mm
PRODUCT HEIGHT	125.3 mm
PRODUCT WIDTH	50 mm
PRODUCT WEIGHT	0.84 kg
CERTIFICATIONS	IEC 62368-1 EN 61010-1 EN 61010-2-201: 2018 EN 55032 EN 61000-3-2 EN 61000-3-3 CISPR 35/EN 55035 EN 61000-4-12: 2017 EN 61000-6-1: 2007 EN 61000-6-3 IEC/EN 61204-3 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 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 CSA C22.2 No. 61010-2-

Powering Business Worldwide

	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. • Back-up fuse: 4 A, type B/C

POWER CONSUMPTION	268 W
PHASE	Three-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 SHOCK	Does not apply, since the entire switchgear needs to be 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
FITTED WITH:	Not accessible internal input fuse (T3.15 AH/500 V, 600 V) for device protection
POLLUTION DEGREE	2
MOUNTING METHOD	Rail mounting possible
CLIMATIC PROOFING	< 95 % relative humidity at +25 °C, no condensation
ENCLOSURE MATERIAL	Aluminum
ALTITUDE	Max. 2000 m
OUTPUT VOLTAGE	24 V
DEGREE OF PROTECTION	IP20 NEMA Other
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	240 W
SUPPLY VOLTAGE AT AC, 50 HZ - MAX	575 VAC
SUPPLY VOLTAGE AT AC, 50 HZ - MIN	320 VAC
SUPPLY VOLTAGE AT AC, 60 HZ - MAX	575 VAC
SUPPLY VOLTAGE AT AC, 60 HZ - MIN	320 VAC
SUPPLY VOLTAGE AT DC - MAX	800 VDC
SUPPLY VOLTAGE AT DC - MIN	450 VDC
WIDTH IN NUMBER OF MODULAR SPACINGS	2.8
PRODUCT CATEGORY	Power supply
OVERVOLTAGE CATEGORY	III
CAPACITIVE LOAD	10000 µ F max. Capacitive load starting, Output characteristics
POWER OUTPUT	240 W
SAFETY PERFORMANCE LEVEL (EN ISO 13849-1)	None
SIL (IEC 61508)	None
TRIPPING CHARACTERISTIC	B
AMBIENT OPERATING TEMPERATURE - MAX	70 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
AMBIENT STORAGE TEMPERATURE - MAX	85 °C
AMBIENT STORAGE TEMPERATURE - MIN	-40 °C
BUILT-IN HEIGHT	124 mm
BUILT-IN WIDTH	50 mm
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID	28 W
HEAT DISSIPATION CAPACITY PDISS	28 W
HEAT DISSIPATION PER POLE, CURRENT-	9.3 W

DEPENDENT PVID	
INPUT VOLTAGE AT AC 50 HZ - MAX	575 V
INPUT VOLTAGE AT AC 50 HZ - MIN	320 V
INPUT VOLTAGE AT AC 60 HZ - MAX	575 V
INPUT VOLTAGE AT AC 60 HZ - MIN	320 V
INPUT VOLTAGE AT DC - MAX	800 V
INPUT VOLTAGE AT DC - MIN	450 V
NOMINAL OUTPUT CURRENT 1	10 A
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE AWG)	Input: 18 - 10 Output: 16-10 Signal: 20 - 16
PROTECTION CLASS	1 (with PE connection)
VOLTAGE TOLERANCE	± 2 %, Rated output voltage
RELATIVE HUMIDITY	5 - 95% RH (non-condensing)
RESIDUAL RIPPLE	< 100 mVpp (PARD at 20 MHz)
INRUSH CURRENT	< 20 A at 3 x 400 V AC (Inrush current limitation I^2t (+25 °C)) < 25 A at 3 x 500 V AC (Inrush current limitation I^2t (+25 °C))
SUPPLY FREQUENCY	47 Hz, Input, min. Range 50/60 Hz, Input, Rated value 63 Hz, Input, max. Range
INSULATION RESISTANCE	4 kV AC (input/output) 2 kV AC (input) 1.5 kV AC (output)
EFFICIENCY	> 89.5 % (3 x 500 V AC) > 89.5 % (3 x 400 V AC)
VIBRATION RESISTANCE	10 - 500 Hz at 30 m/s^2 (3 G max) for 60 min. in X-axis, Y-axis, Z-axis directions, (IEC/EN 60068-2-6)
RAMP/RUN-UP TIME	< 1000 ms
LEAKAGE CURRENT AT GROUND IPE - MAX	< 3.5 mA (at 3 x 500 V AC)
LED INDICATOR	Status indication of "DC

	OK": Green LED
MEAN TIME BETWEEN FAILURES (MTBF)	> 700,000 h
NOMINAL OUTPUT CURRENT 2	0 A
NOMINAL OUTPUT CURRENT 3	0 A
NUMBER OF PHASES	3
OUTPUT CURRENT 1 - MAX	10 A
OUTPUT CURRENT 2 - MAX	0 A
OUTPUT CURRENT 3 - MAX	0 A
OUTPUT CURRENT AT AC, 50 HZ - MAX	10 A
OUTPUT CURRENT AT AC, 60 HZ - MAX	10 A
OUTPUT CURRENT AT DC - MAX	10 A
OUTPUT VOLTAGE 1 - MAX	28 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	28 V
SHOCK RESISTANCE	50 g, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 11 ms, 3 Impacts
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	Input: 0.82 - 5.2 mm^2 Output: 1.3 - 5.2 mm^2 Signal: 0.52 - 1.31 mm^2

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
:	

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