

Power supply unit, Single-phase, 85 - 264 V AC / 24 V DC, 3.125 A, 84 W

Part no. **PSG75E24SPB**
EP-401392

General specifications		
Product name		Eaton PSG power supply unit
Part no.		PSG75E24SPB
Product Length/Depth		123.6 millimetre
Product height		102 millimetre
Product width		27 millimetre
Product weight		0.22 kilogram
Certifications		IEC 61000-4-8: 2010 EN 61000-4-11 IEC 61000-4-6 TSCA EN 55032 CE: In conformance with EMC Directive 2014/30/EU and Low Voltage Directive 2006/95/EC IEC 61000-4-4 IEC 61000-4-5 EN IEC 63000 P65 IEC/EN 61000-4-3 CISPR 35/EN 55035 REACH EN 61010-1 RoHS conform BS EN 62368-1 IEC/EN 61000-4-2 UL 62368-1 EN 61000-3-3 EN 61000-3-2 IEC/EN 60950 IEC 62368-1
Product Tradename		PSG
Product Type		Power supply unit
Product Sub Type		None
Public Consumption		Yes
PDH Status		Active
Product Family Description		ES-PMCC-ICP-ES-PMCC-ICP-Eaton PSG and PSL Power supplies
Globally Marketable		Yes
Product Specification Details		
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.
Altitude		Max. 2000 m
Ambient operating temperature - max		70 °C
Ambient operating temperature - min		-20 °C
Ambient storage temperature - max		85 °C
Ambient storage temperature - min		-40 °C
Built-in height		123.6 mm
Built-in width		27 mm
Capacitive load		5000 µF max. Capacitive load starting, Output characteristic
Climatic proofing		< 95 % relative humidity at +25 °C, no condensation
Degree of Protection		IP20
Efficiency		> 89 % (230 V AC)
Electric connection type		Screw connection
Enclosure material		Plastic
Equipment heat dissipation, current-dependent P _{vid}		9 W
Features		Output voltage stabilized
Fitted with:		Not accessible internal input fuse (T3.15 AH/250 V) for device protection
Heat dissipation capacity P _{diss}		9 W
Heat dissipation per pole, current-dependent P _{vid}		9 W
Input voltage at AC 50 Hz - max		264 V
Input voltage at AC 50 Hz - min		85 V
Input voltage at AC 60 Hz - max		264 V
Input voltage at AC 60 Hz - min		85 V
Input voltage at DC - max		375 V
Input voltage at DC - min		120 V
Leakage current at ground I _{PE} - max		< 1 mA (at 240 V AC)
LED indicator		Status indication of "DC OK": Green LED
Mean time between failures (MTBF)		> 700,000 h
Mounting Method		Rail mounting possible
Nominal output current 1		3.125 A
Nominal output current 2		0 A
Nominal output current 3		0 A
Nominal Output Voltage 1		24 V
Nominal Output Voltage 2		0 V
Nominal Output Voltage 3		0 V
Number of phases		1
Output current 1 - max		3.125 A
Output current 2 - max		0 A
Output current 3 - max		0 A
Output current at AC, 50 Hz - max		3.125 A
Output current at AC, 60 Hz - max		3.125 A
Output current at DC - max		3.125 A
Output voltage		24 V
Output voltage 1 - max		26 V
Output voltage 1 - min		21.6 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		26 V
Output voltage at DC - min		24 V
Overvoltage category		II
Phase		Single-phase

Pollution degree		2
Power consumption		84 W
Power output		75 W
Product category		Power supply
Protection class		1 (with PE connection)
Ramp/run-up time		< 1000 ms
Rated frequency - max		63 Hz
Rated frequency - min		47 Hz
Rated operational current for specified heat dissipation (I _n)		0 A
Rated output power		75 W
Relative humidity		5 - 95 % (non-condensing)
Safety performance level (EN ISO 13849-1)		None
Shock resistance		50 g, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 11 ms, 3 Impacts
SIL (IEC 61508)		None
Supply frequency		63 Hz, Input, max. Range 50/60 Hz, Input, Rated value 47 Hz, Input, min. Range
Supply voltage at AC, 50 Hz - max		264 V AC
Supply voltage at AC, 50 Hz - min		85 V AC
Supply voltage at AC, 60 Hz - max		264 V AC
Supply voltage at AC, 60 Hz - min		85 V AC
Supply voltage at DC - max		375 V DC
Supply voltage at DC - min		120 V DC
Terminal capacity (flexible with ferrule AWG)		Output: 22 - 12 Input: 18 - 12
Terminal capacity (flexible with ferrule)		Output: 0.32 - 3.3 mm ² Input: 0.82 - 3.3 mm ²
Tripping characteristic		B
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)
Voltage tolerance		± 2 %, Rated output voltage
Width in number of modular spacings		1.5

Technical data ETIM 9.0

Low-voltage industrial components (EG000017) / DC-power supply (EC002540)

Electric engineering, automation, process control engineering / Power supply devices / Power supply device / Continuous current supply (ecl@ss13-27-04-07-01 [AFX040008])

Voltage type (supply voltage)		
1st secondary output voltage	V	21.6 - 26
2nd secondary output voltage	V	0 - 0
3rd secondary output voltage	V	0 - 0
Max. output current 1	A	3.125
Max. output current 2	A	0
Max. output current 3	A	0
Secondary voltage adjustable		No
Nominal value output voltage 1	V	24
Nominal value output voltage 2	V	0
Nominal value output voltage 3	V	0
Nominal value output current 1	A	3.125
Nominal value output current 2	A	0
Nominal value output current 3	A	0
Short-circuit-proof		No
Rated supply voltage AC 50 Hz	V	85 - 264
Rated supply voltage AC 60 Hz	V	85 - 264
Rated supply voltage DC	V	120 - 375
Output voltage stabilized		Yes
Power consumption	VA	84
Power output	W	75

Stabilized			No
Type of electric connection			Screw connection
Rail mounting possible			Yes
Wall mounting possible			No
Modular version			No
Width in number of modular spacings			1.5
Built-in width		mm	27
Built-in height		mm	123.6
Direct mounting possible			No
Width		mm	27
Height		mm	102
Depth		mm	123.6
Suitable for safety functions			No
SIL according to IEC 61508			None
Performance level according to EN ISO 13849-1			None
Degree of protection (IP)			IP20
Degree of protection (NEMA)			