Power supply unit, Single-phase, 90 - 264 V AC / 24 V DC, 10 A, 273 W $\,$

Part no. PSG240E24SMB EP-401395

Product name	Eaton PSG power supply unit
Part no.	PSG240E24SMB
Product Length/Depth	123.6 millimetre
Product height	116.8 millimetre
Product width	40 millimetre
Product weight	0.62 kilogram
Certifications	IEC 61000-4-4 P65 IEC 61000-4-5 CE: In conformance with EMC Directive 2014/30/EU and Low Voltage Directive 2006/95/EC EN 61010-1 IEC/EN 60950 IEC 61000-4-8: 2010 BS EN 62368-1 CISPR 35/EN 55035 IEC 62368-1 IEC 61000-4-6 EN 61000-3-2 UL 62368-1 EN IEC 63000 ROHS conform EN 55032 REACH IEC/EN 61000-4-2 TSCA EN 61000-3-3 IEC/EN 61000-4-3 EN 61000-4-3 EN 61000-4-11
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
roduct 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	-30 °C
Ambient storage temperature - max	85 °C
Ambient storage temperature - min	-40 °C
Built-in height	123.6 mm
Built-in width	40 mm
Capacitive load	8000 μF max. Capacitive load starting, Output characteristics
Climatic proofing	20 - 90 % relative humidity at +25 °C, no condensation
Degree of Protection	IP20
Efficiency	> 88 % (115 V AC)
Electric connection type	Screw connection
Enclosure material	Aluminum
Equipment heat dissipation, current-dependent Pvid	33 W
Features	Output voltage stabilized
Fitted with:	Not accessible internal input fuse (T4 AH/250 V) for device protection
Heat dissipation capacity Pdiss	33 W
Heat dissipation per pole, current-dependent Pvid	33 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	0 V
Input voltage at DC - min	0 V
Inrush current	< 40 A at 230 V AC (Inrush current limitation I²t (+25 °C))
Insulation resistance	1 kV AC (output) 2 kV AC (input) 3 kV AC (input/output)
Leakage current at ground IPE - max	< 0.75 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	10 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	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	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	273 W
Power output	240 W
Product category	Power supply
Protection class	1 (with PE connection)
Ramp/run-up time	< 500 ms
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
Relative humidity	20 - 90% RH (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	47 Hz, Input, min. Range 63 Hz, Input, max. Range 50/60 Hz, Input, Rated value
Supply voltage at AC, 50 Hz - max	264 V AC
Supply voltage at AC, 50 Hz - min	90 V AC
Supply voltage at AC, 60 Hz - max	264 V AC
Supply voltage at AC, 60 Hz - min	90 V AC
Supply voltage at DC - max	0 V DC
Supply voltage at DC - min	0 V DC
Terminal capacity (flexible with ferrule AWG)	Secondary side: 18 - 12 Primary side: 18 - 12
Terminal capacity (flexible with ferrule)	Secondary side: 0.82 - 3.3 mm ² Primary side: 0.82 - 3.3 mm ²
Tripping characteristic	В
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	2.3

Technical data ETIM 9.0

Cleatric engineering, automation, process control engineering / Power supply devices / Power supply devices / Continuous current supply (ecl@ss13-27-04-07-01 [AFX040008]) Voltage type (supply voltage)	Technical data ETIM 9.0					
Voltage type (supply voltage) V 21.6 - 26 2nd secondary output voltage V 0 - 0 2nd secondary output voltage V 0 - 0 3nd secondary output voltage V 0 - 0 Max. output current 1 A 10 Max. output current 2 A 0 Max. output current 3 A 0 Secondary voltage adjustable No 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 10 Nominal value output current 2 A 0 Nominal value output current 3 A 0 Nominal value output current 3	Low-voltage industrial components (EG000017) / DC-power supply (EC002540)					
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Short-circuit-proof No No Rated supply voltage AC 50 Hz V 90 - 264	Nominal value output current 2	А	0			
Rated supply voltage AC 50 Hz V 90 - 264	Nominal value output current 3	А	0			
	Short-circuit-proof		No			
D. J. J. M. 1000	Rated supply voltage AC 50 Hz	V	90 - 264			
Rated supply voltage AU 60 Hz V 90 - 264	Rated supply voltage AC 60 Hz	V	90 - 264			
Rated supply voltage DC V 0 - 0	Rated supply voltage DC	V	0 - 0			

Output voltage stabilized		Yes
Power consumption	VA	273
Power output	W	240
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		2.3
Built-in width	mm	40
Built-in height	mm	123.6
Direct mounting possible		No
Width	mm	40
Height	mm	116.8
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)		