

Switched-mode power supply unit, 100-240VAC/24VDC, 1.25A, 1-phase, controlled



Part no. EASY400-POW
212319
EL Number 4520907
(Norway)

General specifications		
Product name		Eaton Moeller® series EASY Accessory Switched-mode power supply unit
Part no.		EASY400-POW
EAN		4015082123192
Product Length/Depth		58 millimetre
Product height		90 millimetre
Product width		72 millimetre
Product weight		0.185 kilogram
Certifications		EN 55022 EN 55011 IEC 60068-2-6 IEC 60068-2-27 IEC/EN 61000-4
Product Tradename		EASY
Product Type		Accessory
Product Sub Type		Switched-mode power supply unit
Catalog Notes		30 5 controlled primary chopper
Features & Functions		
Features		Proof against sustained short circuit, hiccup mode, approx. 2 Hz (Output current 24 V DC) Overload proof (by current limitation)
Number of phases		1
General information		
Degree of Protection		IP20 (according to IEC/EN 60529, EN 50178, VBG 4)
Lamp load		10 W (at 24 V DC, cold)
LED indicator		Status Indication of 24 V DC output voltage: Continuous green light LED
Mounting Method		Screw fixing using fixing brackets ZB4-101-GF1 (accessories) Top-hat rail fixing (according to IEC/EN 60715, 35 mm)
Power consumption		35 W typ.
Power loss		Normally 5 W
Product category		Accessories
Rated frequency - min		47 Hz
Rated frequency - max		63 Hz
Rated operational voltage		100/120/230/240 (-15 %/+10 %)
Used with		easyE4
Voltage type		AC
Ambient conditions, mechanical		
Constant acceleration		2 g, 57 - 150 Hz, according to IEC/EN 60068-2-6, Vibrations
Constant amplitude		0,15 mm, 10 - 57 Hz, according to IEC/EN 60068-2-6, Vibrations
Drop and topple		50 mm Drop height, Drop to IEC/EN 60068-2-31
Height of fall (IEC/EN 60068-2-32) - max		1 m
Mounting position		Horizontal Vertical
Shock resistance		15 g, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 11 ms, 18 Impacts
Climatic environmental conditions		
Air pressure		795 - 1080 hPa (operation)
Altitude		Max. 2000 m

Ambient operating temperature - max		55 °C
Ambient operating temperature - min		-25 °C
Ambient storage temperature - max		70 °C
Ambient storage temperature - min		40 °C
Environmental conditions		Condensation: prevent with appropriate measures Clearance in air and creepage distances according to EN 50178
Relative humidity		5 - 95 % (non-condensing)
Electro magnetic compatibility		
Air discharge		8 kV, according to IEC/EN 61000-4-2, Level 3, ESD
Burst impulse		2 kV, according to IEC/EN 61000-4-4, Level 3
Contact discharge		6 kV, according to IEC/EN 61000-4-2, Level 3, ESD
Electromagnetic fields		10 V/m (according to IEC EN 61000-4-3)
Immunity to line-conducted interference		10 V (according to IEC/EN 61000-4-6)
Radio interference class		Class B (EN 55011) Class B (EN 55022)
Surge rating		0.5kV, outgoer cables symmetrical, EASY...DC, IEC/EN 61000-4-5, level 2, 24 V EMC 2 kV, Supply cables, symmetrical, power pulses (Surge), EMC 6 kV, Surge voltage (EN 50178), 24 V, EMV
Terminal capacities		
Terminal capacity (flexible with ferrule)		0.2/2.5 mm ²
Terminal capacity (flexible with ferrule AWG)		22 - 12
Terminal capacity (solid)		0.2/4 mm ²
Terminal capacity (solid AWG)		22 - 12
Screwdriver size		3.5 x 0.8 mm, Terminal screw
Tightening torque		0.6 Nm, Screw terminals
Safety		
Current limitation		1.5 A, effectiveness of current limitation, 24 V DC, output current
Insulation resistance		According to EN 50178
Potential isolation		SELV (VDE 0100 Part 410; IEC 60364-4-41, HD 384.4.41 S2) EN 60950, EN 50178 (primary/secondary)
Protection class		2 (IEC/EN 60536)
Input characteristics		
Input current at AC - max		0.6 A
Input voltage at AC 50 Hz - min		85 V
Input voltage at AC 50 Hz - max		264 V
Input voltage at DC - min		0 V
Input voltage at DC - max		0 V
Inrush current		18 A (at 25 °C, 230 V)
Mains failure bridging		> 20 ms (at 115 V, according to IEC/EN 61000-4-11) > 40 ms (at 230 V, according to IEC/EN 61000-4-11)
Supply voltage		24 V DC, Output voltage
Output characteristics		
Efficiency		83 %
Output		Parallel switching
Output current at AC, 50 Hz - max		1.25 A
Output voltage		± 2 % (Effect with 25 - 100 % load change) ± 1 % (Effect of input voltage)
Output voltage at AC 50 Hz - max		18 V
Output voltage at DC - min		0 V
Output voltage at DC - max		24 V
Short-circuit protection rating		2/1 A slow, Fuse 115/230 V, Input voltage
Voltage tolerance		± 3 %, Rated output voltage
Design verification		
Equipment heat dissipation, current-dependent Pvid		0 W
Heat dissipation capacity P _{diss}		0 W
Heat dissipation per pole, current-dependent Pvid		0 W
Rated operational current for specified heat dissipation (I _n)		0 A

Static heat dissipation, non-current-dependent Pvs		5 W
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.
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.

Technical data ETIM 8.0

Programmable logic controllers PLC (EG000024) / PLC system power supply (EC000599)		
Electric engineering, automation, process control engineering / Control / Programmable logic control (SPS) / SPS system power supply (ecl@ss10.0.1-27-24-22-09 [AKE532014])		
Input voltage at AC 50 Hz	V	85 - 264
Input voltage at AC 60 Hz	V	85 - 264
Input voltage at DC	V	0 - 0
Type of voltage (input voltage)		AC
Max. input current AC 50 Hz	A	0.6
Max. input current AC 60 Hz	A	0.6
Max. input current DC	A	0
Type of output voltage		AC
Output voltage at AC 50 Hz	V	0 - 18
Output voltage at AC 60 Hz	V	0 - 0
Output voltage at DC	V	0 - 24
Max. output current AC 50 Hz	A	1.25
Max. output current AC 60 Hz	A	0
Max. output current DC	A	1.25
Power output	W	30
Redundancy		No
Suitable for safety functions		No
Width	mm	72
Height	mm	90
Depth	mm	58