



Power supply unit, 1-phase, 100-240VAC/24VDC, 2A

Part no. ELC-PS02
Article no. 135240

Delivery programme

Product range			Power supplies ELC-PS
Subrange			power supply unit
Phases			Single-phase
Input voltage range			85 - 264 V AC
Nominal input voltage			100 - 240 V AC
Rated output voltage			24 V DC (± 3%)
Rated output current		A	2
Rated output power		W	48

Technical data

Input characteristics

Nominal input voltage			100 - 240 V AC
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Output characteristics

Rated output power		W	48
Rated output voltage			24 V DC (± 3%)
Heat dissipation		W	12

Design verification as per IEC/EN 61439

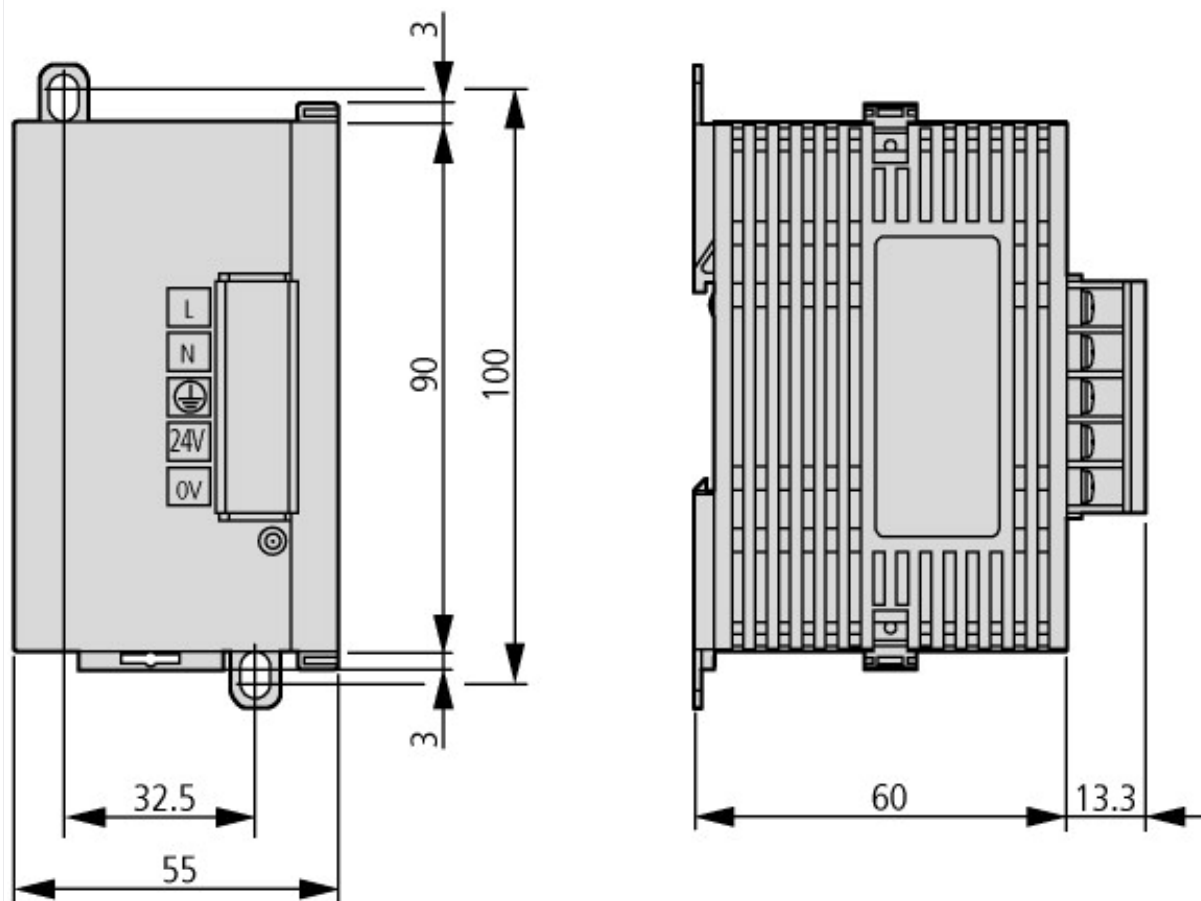
Technical data for design verification			
Rated operational current for specified heat dissipation	I _n	A	0
Heat dissipation per pole, current-dependent	P _{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	W	0
Static heat dissipation, non-current-dependent	P _{vs}	W	12
Heat dissipation capacity	P _{diss}	W	0
Operating ambient temperature min.		°C	0
Operating ambient temperature max.		°C	50
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
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 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric 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 Insulation properties			
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 6.0

Low-voltage industrial components (EG000017) / DC-power supply (EC002540)			
Electric engineering, automation, process control engineering / Power supply / Power supply (other) / DC-power supply (ecl@ss8.1-27-04-90-02 [AFZ644012])			
Voltage type of supply voltage			AC
1st secondary output voltage	V		24 - 24
2nd secondary output voltage	V		0 - 0
3rd secondary output voltage	V		0 - 0
Max. output current 1	A		2
Max. output current 2	A		0
Max. output current 3	A		0
Secondary voltage adjustable			Yes
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		2
Nominal value output current 2	A		0
Nominal value output current 3	A		0
Short-circuit-proof			Yes
Rated supply voltage at AC 50 Hz	V		85 - 264
Rated supply voltage at AC 60 Hz	V		85 - 264
Rated supply voltage at DC	V		0 - 0
Output voltage stabilized			No
Power consumption	VA		0
Power output	W		48
Stabilized			Yes
Type of electric connection			Screw connection
Rail mounting possible			Yes
Wall mounting possible			No
Modular version			Yes
Width in number of modular spacings			0
Built-in width	mm		55
Built-in height	mm		90
Direct mounting possible			No
Width	mm		55
Height	mm		90
Depth	mm		60
Suitable for safety functions			No
SIL according to IEC 61508			None
Performance level acc. to EN ISO 13849-1			None
Degree of protection (IP)			-

Dimensions



Additional product information (links)

IL05003007E

IL05003007E