



Power supply, 1 ph, 85-264V AC, 24VDC/2,5A



Powering Business Worldwide™

Part no. PSG60E
Article no. 131673

Catalog No.

Delivery programme

Product range		Power supplies PSG
Phases		1-phase
Input voltage range	V	85 - 264 V AC 120 - 375 V DC
Nominal input voltage		100 - 240 V AC
Rated output voltage		24 V DC (± 2%)
Measuring output current	CSA	2.5
Setting range for the output voltage		22-28 V DC
Rated output power	W	60

Input characteristics

Nominal input voltage		100 - 240 V AC
Supply frequency		
Rated value	Hz	50/60
Range	Hz	47 - 63
Rated operational current	I_n	1.1 bei 115 V AC, 0.7 bei 230 V AC
Mains failure bridging	ms	> 20 at 115 V AC > 150 at 230 V AC
Run-up time after mains voltage applied	ms	2500
Internal input fuse (device protection, not accessible)		T3.15 AH/250 V
Back-up fuse		6, 10, 16 A (recommended)
Tripping characteristic		B
Discharge current to PE	mA	< 1

Output characteristics

Rated output power	W	60
Rated output current T_u 60 °C	A	2.5
Derating from $T_{amb} > +50$ °C		2.5 % per Kelvin (< 0 °C: 1 % per Kelvin) temperature increase
Capacitive load starting		Max 8000 µF
Heat dissipation	W	10
Efficiency	%	> normally 85
Residual ripple and switching peaks		20 MHz: < 50 mV/< 240 mVpp
Can be switched in parallel		with ORing Diode

General characteristics

Housing		Aluminum (Al5052)
Status indication		DC OK: LED green
Height	mm	121
Width	mm	32
Depth	mm	120
Weight	kg	0.37
Terminations		Screw connection
Stripping length	mm	7
		or suitable cable lug for crimping
Ambient temperature, operation	°C	-20 - +75 (> 50 °C derating)
Ambient temperature, storage	°C	-20 - +85
Climatic proofing		< 95 % relative humidity at +25 °C, no condensation
Vibrations (IEC/EN 60068-2-6)		10 - 150 Hz, accel. 50 m/s ² , 0.35 mm, single amplitude (5 g max.) for 90 min. in X, Y, Z direction
Pollution degree		2

Climatic class (IEC)

3K3 according to EN 60721

Safety and safety features

Transient overvoltage protection

Varistor

Current limitation at short-circuit

$I_{\text{Überstrom}} = 150\% \text{ der max. Ausgangsleistung}$

Overvoltage protection

Yes, against internal overvoltage

Insulation voltage

Inputs/outputs

4 kV AC (type test), 3 kV AC (routine test)

Input

1.5 kV AC (type test), 1.5 kV AC (routine test)

Output

1.5 kV AC (type test), 500 V AC (routine test)

Protection type

IPX0

Protection class

Class I with PE connection

Mechanical shock resistance (IEC 60068-2-27)

30 g (300 m/s²) in all directions according to IEC 60068-2-27

Standards

Electrical equipment of machines: IEC60204-1 (Overvoltage category III)
Equipping power installations with electronic apparatus: EN 50178/IEC 62103
Safety extra-low voltage: PELV (EN 60204), SELV (EN 60950)
Protection against electric shock: DIN 57100-410
CE: In conformance with EMC Directive 2004/108/EC and Low Voltage Directive 2006/95/EC
ITE: EN 55022, EN 61000-3-2, EN 61000-3-3, EN 55024
Industrial: EN 55011
Mains harmonics limitation: EN 61000-3-2

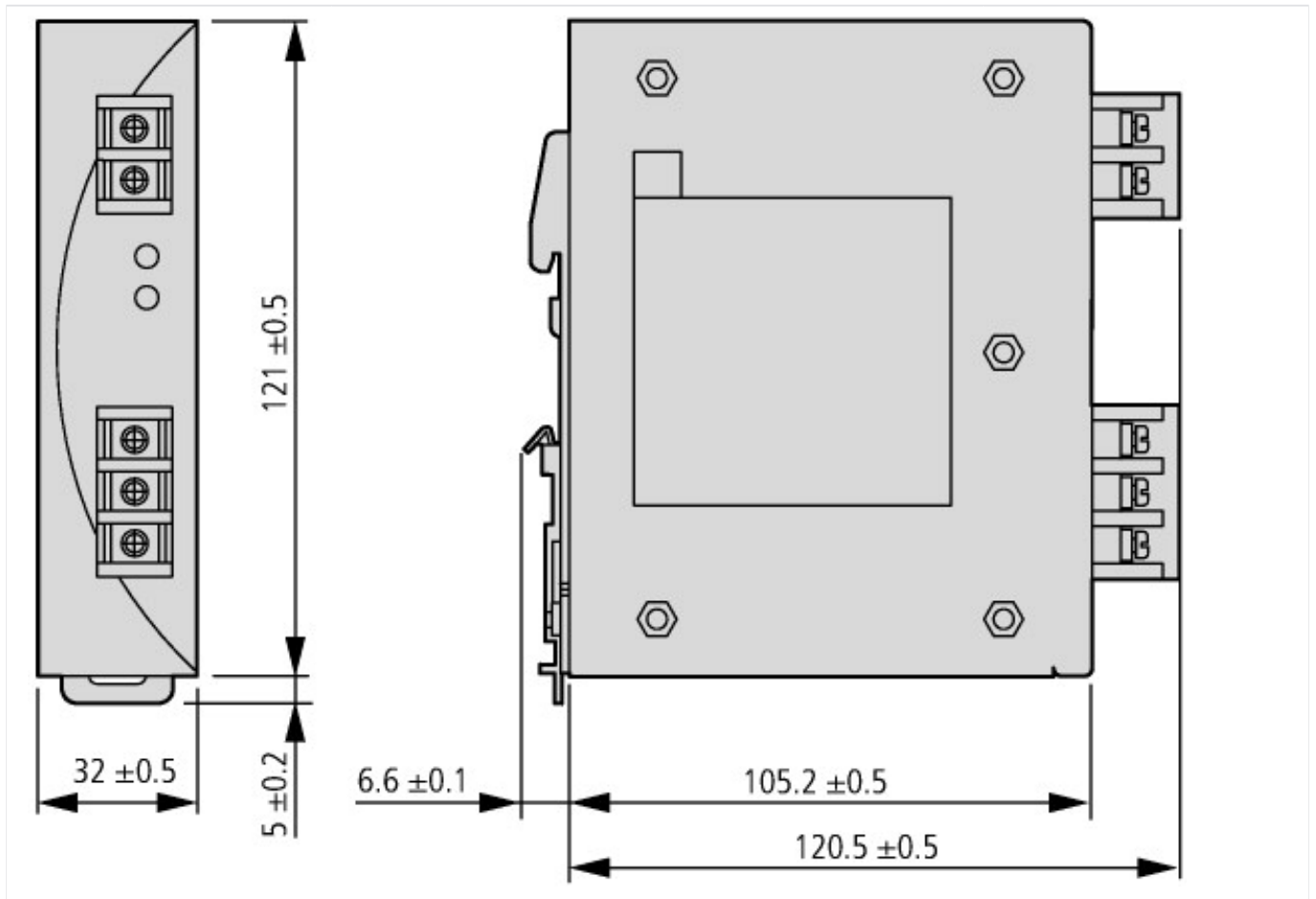
Technical data ETIM 5.0

PLC's (EG000024) / PLC system power supply (EC000599)

Electric engineering, automation, process control engineering / Control / Programmable logic control (SPS) / SPS system power supply (ecl@ss8-27-24-22-09 [AKE532010])

Input voltage at AC 50 Hz	V	85 - 264
Input voltage at AC 60 Hz	V	85 - 264
Input voltage at DC	V	120 - 375
Type of voltage (input voltage)		AC/DC
Max. input current AC 50 Hz	A	1.1
Max. input current AC 60 Hz	A	1.1
Max. input current DC	A	0.5
Type of output voltage		DC
Output voltage at AC 50 Hz	V	0 - 0
Output voltage at AC 60 Hz	V	0 - 0
Output voltage at DC	V	22 - 28
Max. output current AC 50 Hz	A	0
Max. output current AC 60 Hz	A	0
Max. output current DC	A	2.5
Redundancy		No
Suited for safety functions		No
Width	mm	32
Height	mm	121
Depth	mm	120.5

Dimensions



Additional product information (links)

IL00912001E

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