

Power supply unit, 3-phase, 400-500VAC/24VDC, 2.5A

Part no. PSG60F Article no. 135226



Delivery program

Product range		Power supplies PSG
Phases		Three-phase
Input voltage range		320 - 575 V AC 450 - 800 V DC
Nominal input voltage		3 x 400 - 500 V AC
Rated output voltage		24 V DC (± 2%)
Rated output current	Α	2.5
Setting range for the output voltage		22 - 28 V DC
Rated output power	W	60

Technical data

Input characteristics

		3 x 400 - 500 V AC
	Hz	50/60
	Hz	47 - 63
In	Α	0.3 bei 400 V AC
	ms	
	ms	> 30 at 3 x 400 V AC > 60 at 3 x 500 V AC
	ms	2000
		3.15AH/500 V
		3 x 6, 10, 16 A (recommended)
		В
		< 3.5 mA
	W	60
		24 V DC (± 2%)
		±2 %
		22 - 28 V DC
	Α	2,5
		2.5 % per Kelvin temperature increase
		Max 10000 μF
	l _n	In A ms ms ms

Can be switched in parallel

Residual ripple and switching peaks

Heat dissipation

Efficiency

General characteristics			
Housing			Aluminum (Al5052)
Status indication			DC OK: LED green
Height	r	mm	121
Width	r	mm	70
Depth	r	mm	118.5
Weight	k	kg	0.56
Terminations			Screw connection
Stripping length	r	mm	7

W

%

> 86 at 3 x 400 V AC > 85 at 3 x 500 V AC

with ORing Diode

20 MHz: < 50 mV/< 240 mVpp

			or suitable cable lug for crimping
Ambient air temperature range		°C	
Operation		°C	-20 - +75 (> 50 °C derating)
Storage, transport	9	°C	
Storage	9	°C	-20 - +85
damp heat			<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
Mechanical shock resistance (IEC 60068-2-27)			30 g (300 m/s²) in all directions
Pollution degree			2
Climatic class (IEC)			3K3 according to EN 60721
Safety and safety features			
Transient overvoltage protection			Varistor
Current limitation at short-circuit			l _{Überstrom} = 150 % der max. Ausgangsleistung
Overvoltage protection			Yes, against internal overvoltage
Insulation voltage			
Input/Output			4 kV AC (type test), 3 kV AC (routine test)
Input/PE			1.5 kV AC (type test), 1.5 kV AC (routine test)
Output/PE			1.5 kV AC (type test), 500 V AC (routine test)
Degree of Protection			IPX0
Protection class			Class I with PE connection
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 601000-3-2

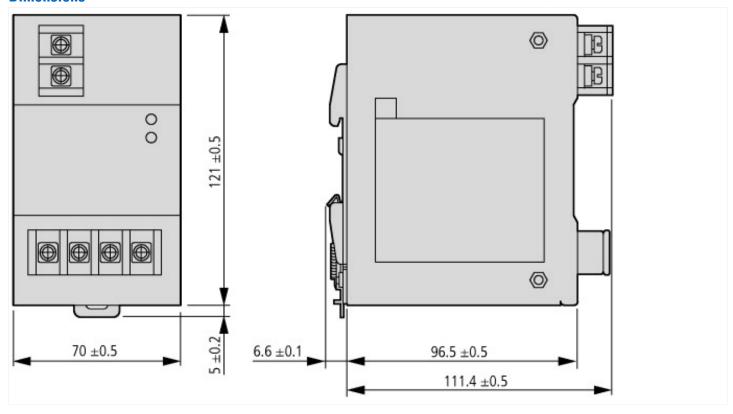
Design verification as per IEC/EN 61439

C/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

PLC's (EG000024) / PLC system power supply (EC000599)			
Electric engineering, automation, process control engineering / Control / Programm	able logic contro	ol (SPS)/	/ SPS system power supply (ecl@ss8.1-27-24-22-09 [AKE532011])
Input voltage at AC 50 Hz	V		320 - 575
Input voltage at AC 60 Hz	V		0 - 0
Input voltage at DC	V		450 - 800
Type of voltage (input voltage)			AC/DC
Max. input current AC 50 Hz	Α		0.3
Max. input current AC 60 Hz	А		0.3
Max. input current DC	Α	ı	0.13
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	Α		0
Max. output current AC 60 Hz	Α		0
Max. output current DC	А		2.5
Redundancy			No
Suitable for safety functions			No
Width	m	nm	70
Height	m	nm	121
Depth	m	ım	111.4

Dimensions



Additional product information (links)

Additional product information (mixs)		
IL00912005E		
IL00912005E	ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL00912005E2011_01.pdf	