



Power supply unit, 3-phase, 400VAC/24VDC, 5A

Part no. **GD4-050-BD3**  
 Catalog No. **200007**

**Delivery program**

			This item is only available until 12/18/2020, after which it will be replaced with the following item: 172883, PSG120F24RM
Product range			GD4 power supply units
Description			unregulated smoothed
Phases			Three-phase
Input voltage range			380 - 420 V AC
Nominal input voltage			3 x 400 V AC
Rated output voltage			24 V DC
Rated output current		A	5
For use with			easy... MFD... EC4P... XC-CPU... XIOC... PS4...

**Technical data**

**General**

Protection class			1
Potential isolation			Yes, VDE 0551, IEC/EN 60742, SELV
Supply frequency			
Rated value		Hz	50/60
Range		Hz	50 - 60
Electromagnetic compatibility (EMC)			
Emitted interference			Class B (EN 55011, 22)
ESD	Air/contact discharge	kV	6 kV contact (Level 3), 8 kV air (Level 3), IEC/EN 61000-4-2
RFI			10 V/m, modulated, IEC/EN 61000 4-2
Burst			2 kV (Level 3) IEC/EN 61000-4-4
Surge			2 kV (Inst. Class 3), IEC/EN 61000-4-5
Surge voltage			4.9 kV, IEC EN 60947
Environmental compatibility			
Ambient temperature			-25 - 55
Ambient temperature, storage		°C	- -25 - 85
Overvoltage category/pollution degree			2, EN 50178
Vibration			0.075 mm (10 - 57 Hz), 10 cycles, IEC 60068-2-6
Shock resistance Shock duration 11 ms		g	15, IEC 60068-2-27 (3 shocks)
Altitude		m	Up to 2000 m a.s.l.; observe derating at higher altitudes
<b>Notes</b>			Derating From +44 to +55 °C: linear derating of power from 100 % to 93 %
Degree of Protection			IP20
Fixing			Screw fixing
Mounting position			As required
Heat dissipation		W	27

**Input voltage**

Rated value		V AC	400
Range		V AC	Pick-off ± 5 % 380, 400, 420
Input current nominal value per phase		A	0.24
No-load losses		W	5

Short-circuit losses		W	19.6
<b>Output voltage</b>			
Rated value		V DC	24
Residual ripple		%	≤ 3
Output current (nominal value)		A	5
Output current, range at 55 °C		A	0 - 5
<b>Terminal capacities</b>			
Solid		mm <sup>2</sup>	0.5 - 4
Flexible with ferrule		mm <sup>2</sup>	0.5 - 2.5
Connections			Screw connection
Weight		kg	2.4
<b>Fuse specification</b>			
Input current	I <sub>1</sub>	A	0.24
Circuit-breaker			
PKZ			PKZM0-0.25
Current setting		A	0.24
Miniature circuit-breaker			
FAZ			FAZ-S1/1
Short-circuit protection only			●

## Notes

Range of rated voltages U<sub>e</sub> at 230 V or 3 x 400 V AC (primary side)

and a load current of I = 0 A up to rated current 1 x I<sub>e</sub>

## Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	I <sub>n</sub>	A	0
Heat dissipation per pole, current-dependent	P <sub>vid</sub>	W	0
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	0
Static heat dissipation, non-current-dependent	P <sub>vs</sub>	W	27
Heat dissipation capacity	P <sub>diss</sub>	W	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	55
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

PLC's (EG000024) / PLC system power supply (EC000599)		
Electric engineering, automation, process control engineering / Control / Programmable logic control (SPS) / SPS system power supply (ecl@ss8.1-27-24-22-09 [AKE532011])		
Input voltage at AC 50 Hz	V	0 - 0
Input voltage at AC 60 Hz	V	0 - 0
Input voltage at DC	V	0 - 0
Type of voltage (input voltage)		AC
Max. input current AC 50 Hz	A	0.24
Max. input current AC 60 Hz	A	0.24
Max. input current DC	A	0
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	0 - 0
Max. output current AC 50 Hz	A	0
Max. output current AC 60 Hz	A	0
Max. output current DC	A	5
Redundancy		No
Suitable for safety functions		Yes
Width	mm	125
Height	mm	140
Depth	mm	73