

SINAMICS G120

Multifunctional. Combinable.

Safety Integrated.



Highlights

- High degree of flexibility and combinability
- Higher-level, standard safety concept
- Wide range of power ratings

Applications



Pumping/
Ventilating/
Compressing

Moving



Processing

Positioning

Modular design



Format	Built-in unit (modular) Power Module, Control Unit, commissioning options
Drive concept	AC/AC
Degree of protection	IP20/UL open type
Supply voltage/ power kW (hp)	
1AC/3AC 200 ... 240 V	0.55 ... 4 kW (0.75 ... 5 hp), Power Module PM240-2
3AC 200 ... 240 V	5.5 ... 55 kW (7.5 ... 60 hp), Power Module PM240-2
3AC 380 ... 480 V	0.55 ... 250 kW (0.75 ... 400 hp), Power Module PM240-2
3AC 380 ... 480 V	7.5 ... 90 kW (10 ... 125 hp), Power Module PM250
3AC 500 ... 690 V	11 ... 250 kW (10 ... 250 hp at 600 V), PM240-2
Control Unit	Control Unit CU230P-2, CU240E-2, CU240E-2 F, CU250S-2
Energy recovery	In conjunction with PM250 Power Modules
Control modes	V/f (linear, square law, FCC, ECO), vector control with and without encoder (VC, SLVC)
Ambient temperature	-10 °C to 40 °C without derating/to 60 °C with derating
Line filter	With integrated line filter for environments according to IEC 61800-3 Category C3/C2 Without integrated line filter for environments according to IEC 61800-3 Category C4
Braking chopper	Integrated braking chopper for PM240-2 Power Modules
Safety functions	STO, SS1, SBC, SLS, SDI, SSM
Communications	PROFINET, PROFIBUS DP, EtherNet/IP, USS/Modbus RTU, CANopen, PROFIsafe
TIA Portal connected	Yes
Commissioning tools	BOP-2, IOP-2, G120 Smart Access Module, SINAMICS Startdrive
Digitalization tools	SIDRIVE IQ Fleet, Drive System Framework, Analyze MyDrives Edge, SINAMICS DriveSim Basic, TIA Selection Tool, SPC, SINAMICS Startdrive
Controllers	SIMATIC ET200, SIMATIC S7-1200/SIMATIC S7-1500, SIMATIC PCS 7
Recommended motors	SIMOTICS M-1PH8 Siemens main motors SIMOTICS GP/SD ¹ (standard induction motors, synchronous-reluctance motors aluminum/cast iron) SIMOGEAR ¹ (geared motors) SIMOTICS TN ¹ (trans-standard motors) SIMOTICS XP ¹ (explosion-protected motors)

¹ Please find the right motors from our product partner Innomatics.com



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