SINAMICS G120X
Flexible. Combinable. Application specific.

Format	Built-in unit (compact)
Drive concept	AC/AC
Degree of protection	IP20, UL open type, IP21 (roof top kit)
Supply voltage/ power kW (hp)	
3AC 200 ... 240 V	0.75 ... 55 kW / 1 ... 75 hp
3AC 380 ... 480 V	0.75 ... 560 kW / 1 ... 700 hp
3AC 500 ... 690 V	3 ... 630 kW / 4 ... 700 hp
Energy recovery	No
Control modes	V/f (linear, square law, FCC, ECO), sensorless vector control (SLVC)
Ambient temperature	–20 °C to 45 °C (60 °C with derating)[1]
Line filter	According to IEC 61800-3, with integrated line filter for environments Category C3/C2; optional C1 with external filter B
Braking chopper	No
Safety functions	STO SIL3 HW via terminals
Communications	PROFINET, PROFIBUS, EtherNet / IP, Modbus RTU, USS, BACnet MS / TP, Wi-Fi via SINAMICS G120 Smart Access Module, SD card for parameter cloning
TIA Portal connected	via GSD file
Commissioning tools	BOP-2, IOP-2, G120 Smart Access Module, SIMATIC PCS7 and SIMATIC PDM
Digitalization tools	Analyze MyDrives Edge, SINAMICS DriveSim Basic, TIA Selection Tool, SPC, TIA Portal Add-in(with GSD file), Drive System Framework, Drive System Services
Controllers	SIMATIC S7-1500/1200/400, Desigo PX
Recommended motors	SIMOTICS[2] Reluctance motors
	SIMOTICS GP/SD[2] (standard induction motors with aluminum/cast iron enclosures)
	SIMOTICS DP[2] (smoke extraction motors)

[1] The maximum temperature for Profinet converters is 55 °C
[2] Please find the right motors from our product partner Innomotics.com

Highlights

- The infrastructure drive for pump/fan applications in water/waste-water industries and building automation
- Seamless range of power ratings available in 9 frame sizes extending from 0.75 – 630 kW
- Simple selection and ordering using just one order number – and immediately ready to run
- Impressively efficient with specific industry and energy efficiency functions

Applications

Pumping/ Ventilating/ Compressing

siemens.com/sinamics-selector

siemens.com/product-configurator