

SIEMENS



Low-voltage drives

SINAMICS G120 drives

More power, less space — discover the new PM240-2 power module

The second generation of the SINAMICS G120 drive series is here. Using the latest power component technology, the new PM240-2 Power Modules offer many benefits not seen before in general purpose variable frequency drives (VFDs). With higher power densities, matching control units and operator panels, enhanced vector control, basic positioning capabilities, the new G120 proves to be a best-in-class VFD.

Additional advantages:

- Side-by-side mounting without derating
- Integrated, comprehensive safety concept up to PLe/SIL3
- Available in 240V 1-phase, 240V 3-phase and 480V 3-phase
- Increased ruggedness
- Significantly increased VFD-to-motor connection lengths without the need of an output reactor
- No need for input line reactors if one higher rating is used
- Built-in DC Link choke (frames D, E and F only)

Complex applications such as industrial machinery, or in the automotive, textile, packaging and chemical industries, SINAMICS G120 drives are an excellent match.



usa.siemens.com/sinamics-g120

SINAMICS G120 PM240-2 Power Module — Highlights at a glance

- + **Significant space savings** in the control cabinet as a result of increased power density, as well as side-by-side mounting
- + **Increased ruggedness** through longer motor cable lengths and by meeting increased environmental requirements such as now having a SIL3 rating (frame size D, E, F only) and extended standard temperature ranges
- + **Lower costs** for installation and maintenance through an optimized connection system
- + **Lower system costs** by eliminating the need for input and output reactors — shield connection plates are also included with each unit
- + **Compatibility** with Siemens TIA (Totally Integrated Automation) and IDS (Integrated Drive Systems) integration
- + **Expanded product flexibility** by having six built-in safety functions
- + **Push-through mounting** for frame sizes A, B and C (larger frame sizes coming soon)



SINAMICS G120 technical information	
Voltage	1-phase AC 200–240V, 3-phase AC 380–690V
Power range	0.55–132 kW 0.75–200 hp
Degree of protection	Up to IP20 (UL Open Type)
Environmental class	Up to Class 3C3
Ambient temperature	–10° to +60° C
EMC	According to EN 61800-3 up to Category C2
Standards	CE, UL, cUL, c-Tick
Safety technology	Safety Integrated: STO (up to SIL 3, PL e, Cat. 3), SS1, SBC, SLS, SDI, SSM, PROFIsafe
Communication	PROFINET, PROFIBUS, USS, Modbus, EtherNet/IP™, BACnet
Closed-loop control modes	V/f, flux current control (FCC), vector control with and without encoder
Functions	Basic positioning function with EPos, energy recovery (regeneration) using efficient infeed technology, PROFInergy, PROFIdrive

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