

SIEMENS



New!
up to 32%
smaller

Smaller and same functionality Discover the new frame size FSAA

SINAMICS G120C: The innovated compact inverter

SINAMICS G120C is especially compact with a high power density, and offers a well-balanced combination of functions to address a wide range of applications. The new frame size FSAA from 0.55 kW up to 2.2 kW is a real highlight, which sets itself apart as a result of the lower space requirement but with the same power and performance. What is especially important in this regard is that it is fully compatible to the other three frame sizes.

Advantages:

- Up to 32% less space combined to FSA
- Identical functionality in the new and smaller frame size
- STO safety function integrated as standard
- PROFIBUS/PROFINET communication

As true all-rounder, the compact SINAMICS G120C inverter can address various applications – e.g. conveyor belts, mixers, agitators, extruders, pumps, fans, compressors or basic handling machines. Further, it is ideally suited for machinery construction industry and sales through distribution channels.



Highlights at a glance

+ Especially compact

High power density and 32 % lower envelope dimensions in comparison to the frame size FSA.

+ Integrated safety

No external components are required as a result of the certified Safe Torque Off safety function integrated as standard.

+ Reliable communication

All the usual bus systems, such as PROFINET, PROFIBUS & USS/Modbus RTU are supported.



+ 100 % compatibility

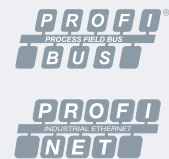
When the product is being replaced, new dimensioning is not required as the drilling template is identical to SINAMICS FSA and MICROMASTER MM4.

+ Identical options

Options for SINAMICS FSA and MICROMASTER MM4 can also be used for the new frame size FSAA.

+ Perfect integration

SINAMICS G120C is an integral component of Totally Integrated Automation and Integrated Drive Systems.



Technical data for SINAMICS G120C

Voltage:	3AC 380 ... 480 V +10 % / -20 %; IP20
Power range / frame sizes:	0.55 to 18.5 kW, 4 frame sizes FSAA (0.55 to 2.2 kW); FSA (3 to 4kW); FSB (5.5 to 7.5 kW); FSC (11 to 18.5 kW)
Dimensions in mm: W x H x D:	FSAA: 73 x 175 x 155 ¹ / FSA: 73 x 196 x 203 ¹ ¹ with PROFINET depth: additional, 22.4mm
Overload capability:	Low Overload (LO): 150 % for 3 sec. plus 110 % for 57 sec., within a load cycle of 300 sec. High Overload (HO): 200 % for 3 sec. plus 150 % for 57 sec., within a load cycle of 300 sec.
Ambient temperature:	-10° to 40° C without derating / up to 60° C with derating
EMC (with integrated filter A):	<ul style="list-style-type: none"> • Device fulfills the requirements according to EN 61800-3 Category C3 (industrial low-voltage line supplies) • Device complies with the limit values of cable-conducted and radiated interference voltages according to EN 61800-3 Category C2 (public low-voltage grid)
Standards:	CE, UL, cUL, c-tick
Safety technology:	Safety Integrated: Safe Torque Off (STO); controlled via terminals or PROFIsafe
Communication:	PROFINET, PROFIBUS, USS/Modbus RTU
Control modes:	U/f (linear, square law, FCC, ECO), vector control without encoder (SLVC)
Functions:	Fixed velocity setpoint, PID controller, motor holding brake control
Energy functions:	Energy saving calculator, energy usage calculator, ECO mode (automatic flux reduction)

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