

SINAMICS G120 standard inverters

0.37 kW to 250 kW (0.5 hp to 400 hp)

Supplementary system components > Push-through mounting frame for PM240-2 Power Modules

Overview

It is advisable to use an optionally available mounting frame to install the push-through unit in a control cabinet. This mounting frame includes the necessary seals and frame to ensure compliance with degree of protection IP54.

If the Power Module is installed without use of the optional mounting frame, the user is responsible for ensuring that the requisite degree of protection is provided.

Tightening torque for fixing the mounting frame and the inverter:

- Frame sizes FSA to FSC: 3 to 3.5 Nm
- Frame sizes FSD and FSE: 3.5 Nm
- Frame size FSF: 5.9 Nm

For the push-through power modules, frame sizes FSD to FSF, installation handles are available for insertion without the need for a lifting device.

Selection and ordering data

Description	Article No.
Push-through mounting frame	
• For PM240-2 Power Modules degree of protection IP20, push-through variants	
- Frame size FSA	6SL3260-6AA00-0DA0
- Frame size FSB	6SL3260-6AB00-0DA0
- Frame size FSC	6SL3260-6AC00-0DA0
- Frame size FSD	6SL3200-0SM17-0AA0
- Frame size FSE	6SL3200-0SM18-0AA0
- Frame size FSF	6SL3200-0SM20-0AA0
Accessories	
Installation handles for push-through power modules, frame sizes FSD to FSF	6SL3200-0SM22-0AA0

Supplementary system components > Memory cards

Overview



SINAMICS SD memory card

The parameter settings for an inverter can be stored on the SINAMICS SD memory card. When service is required, e.g. after the inverter has been replaced and the data have been downloaded from the memory card, the drive system is immediately ready for use again.

- Parameter settings can be written from the memory card to the inverter or saved from the inverter to the memory card.
- Up to 100 parameter sets can be stored
- The memory card supports standard commissioning without the use of an operator panel such as the IOP-2, BOP-2 or the STARTER and SINAMICS Startdrive commissioning tools.
- If firmware is stored on the memory card and a Control Unit is installed, the firmware can be upgraded/downgraded during power-up¹⁾.

Note:

The memory card is not required for operation and does not have to remain inserted.

Licenses can be optionally ordered for CU250S-2 Control Units in order to implement safety technology and positioning capability via the SINAMICS SD card. For further information, refer to section Control Units.

Selection and ordering data

Description	Article No.
SINAMICS SD card 512 MB	6SL3054-4AG00-2AA0
Optional firmware memory cards	
SINAMICS SD card 512 MB + firmware V4.7 SP10 (Multicard V4.7 SP10)	NEW 6SL3054-7TF00-2BA0

For an overview and more information on all available firmware versions, see <https://support.industry.siemens.com/cs/document/67364620>

¹⁾ You can find more information about firmware upgrades/downgrades on the Internet at <https://support.industry.siemens.com/cs/document/67364620>

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Supplementary system components > SINAMICS G120 Smart Access

Overview



SINAMICS G120 Smart Access

It is also easy and convenient to commission and operate the SINAMICS G120, SINAMICS G120C and SINAMICS G120P inverters of firmware V4.7 SP6 and higher using the web server module SINAMICS G120 Smart Access and a connected smartphone, tablet or laptop.

Benefits

- Wireless commissioning, operation and diagnostics via mobile device or laptop thanks to the optional SINAMICS G120 Smart Access
- Easy access to the inverter in difficult-to-access areas
- Intuitive user interface and commissioning wizard
- Free choice of terminal devices as the web server works with all common web browsers, such as iOS, Android, Windows, Linux and Mac OS

Function

- Commissioning using commissioning wizard
- Setting and saving parameters
- Testing motor in JOG mode
- Monitoring of inverter data
- Quick diagnostics
- Saving the settings and restoring to factory settings

Selection and ordering data

Description	Article No.
SINAMICS G120 Smart Access For wireless commissioning, operation and diagnostics of the following inverters using a smartphone, tablet, or laptop <ul style="list-style-type: none"> • SINAMICS G120C • SINAMICS G120 together with the CU230P-2 and CU240E-2 Control Units (without fail-safe versions) • SINAMICS G120P together with the CU230P-2 Control Units 	NEW 6SL3255-0AA00-5AA0

Technical specifications

SINAMICS G120 Smart Access 6SL3255-0AA00-5AA0	
Operating system	iOS, Android, Windows, Linux, Mac OS
Languages	Support of six languages: English, French, German, Italian, Spanish, Chinese
Ambient temperature	<ul style="list-style-type: none"> • During storage and transport: -40 ... +70 °C (-40 ... +158 °F) • During operation: 0 ... 50 °C (32 ... 122 °F) if the Smart Access is plugged directly into the inverter
Humidity	< 95 %, non-condensing
Degree of protection	Depending on the degree of protection of the inverter, max. IP55/UL Type 12 enclosure
Dimensions	<ul style="list-style-type: none"> • Width: 70 mm (2.76 in) • Height: 108.9 mm (4.29 in) • Depth: 17.3 mm (0.68 in)
Weight, approx.	0.08 kg (0.18 lb)
Compliance with standards	CE, FCC, SRRC, WPC, ANATEL, BTK

Integration



SINAMICS G120 with PM240-2 Power Module, CU240E-2 PN-F Control Unit and plugged-on SINAMICS G120 Smart Access

The optional SINAMICS G120 Smart Access is simply plugged onto the inverter and is available for the following inverters of firmware V4.7 SP6 and higher.

- SINAMICS G120C
- SINAMICS G120 together with the CU230P-2 and CU240E-2 Control Units (without fail-safe versions)
- SINAMICS G120P together with the CU230P-2 Control Units
[More information can be found in Catalog D 35.](#)