

AMIKON TECHNICAL INTELLIGENCE

Installation Instructions

Siemens 6SL3210-1PE22-7UL0

SINAMICS G120 PM240-2, FSC



OFFICIAL SIEMENS PRODUCT IMAGE

FRAME	DIMENSIONS	COOLING	FIXING
FSC	355 x 140 x 165	80 / 100 / 100 mm	4 x M5 / 3.5 Nm

Prepared by Amikon Limited from the Siemens PM240-2 Hardware Installation Manual. This review document does not replace the current controlled Siemens manual.

01

CONFIRM THE ORDERED CONFIGURATION

Article	6SL3210-1PE22-7UL0
Module	SINAMICS G120 PM240-2 Power Module
Input	3 AC 380-480 V, +/-10%; 47-63 Hz
Duty ratings	11 kW LO / 7.5 kW HO
Frame / protection	FSC / IP20
Filter / braking	Unfiltered / integrated braking chopper

02

MECHANICAL MOUNTING

- Mount vertically with the motor connectors at the bottom.
- Install in a closed control cabinet and prevent condensation or conductive contamination.
- Maintain 80 mm top, 100 mm bottom and 100 mm front cooling clearances.
- Use 4 x M5 fixing hardware and the specified 3.5 Nm torque.
- No lateral cooling clearance is required; Siemens recommends approximately 1 mm for tolerance.

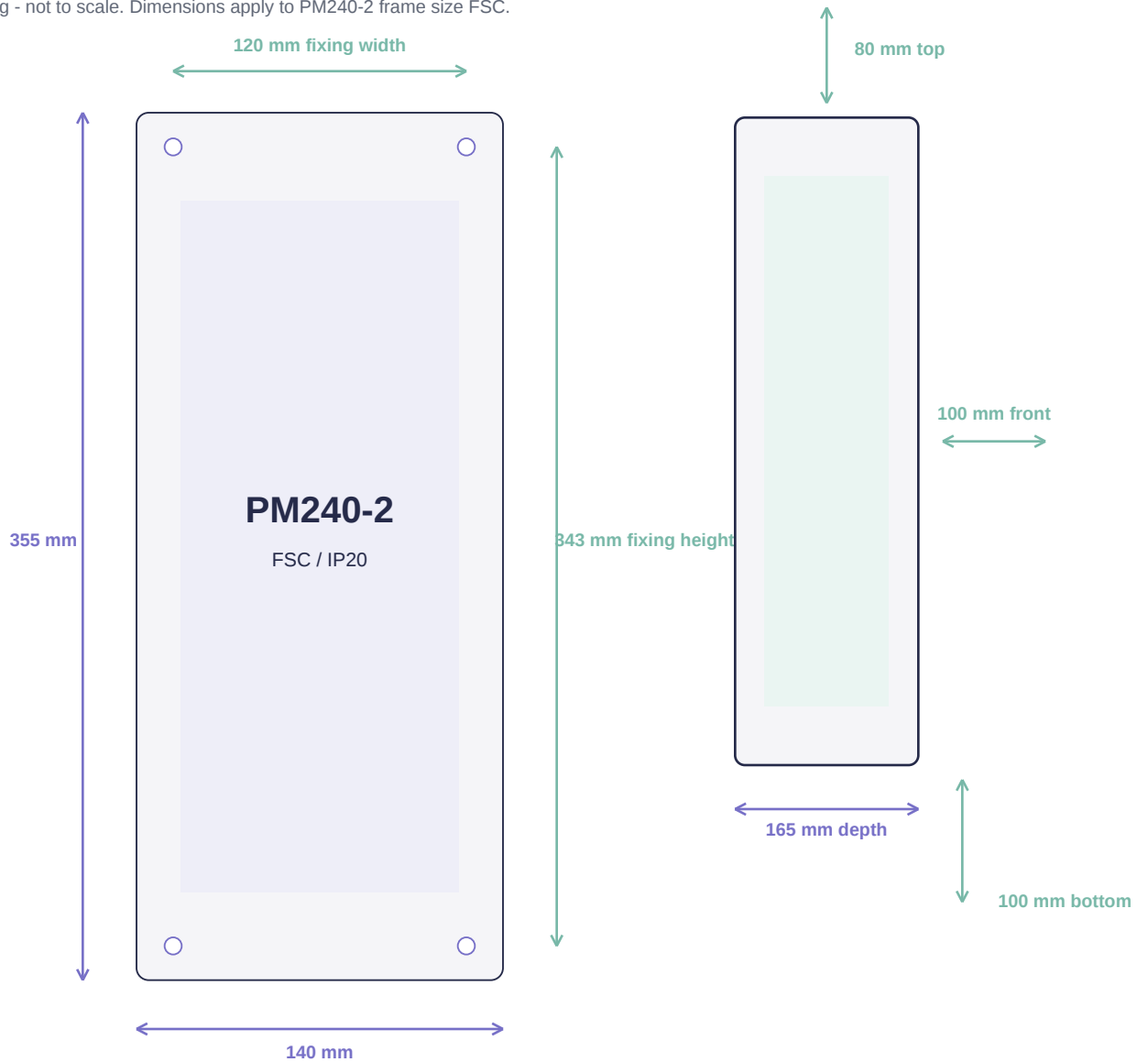
OFFICIAL DRAWING REFERENCE

Mechanical dimensions are taken from Siemens manual section 3.4.2; the review drawing follows on page 2.

03

MECHANICAL INSTALLATION DRAWING

Reference drawing - not to scale. Dimensions apply to PM240-2 frame size FSC.



PM240-2 FSC installation envelope

Module size	140 W x 355 H x 165 D mm
Drilling pattern	120 W x 343 H mm
Fixing	4 x M5 / 3.5 Nm
Cooling clearances	80 mm top / 100 mm bottom / 100 mm front

Source: Siemens PM240-2 Hardware Installation Manual, section 3.4.2, frame size FSC.
Use the current controlled Siemens drawing for final installation.

04

CABLE ROUTING AND CONNECTION

- Route power cables and low-level signal/data cables separately; maintain 25 cm where practicable.
- Use shielded motor and braking-resistor cables and bond shields as specified by Siemens.
- Connect protective earth before energization and verify cabinet bonding.
- Use only terminals, conductor sizes and tightening torques stated in the current Siemens manual.



05

PRE-ENERGIZATION CHECKS

- 01 Confirm article number, frame, filter configuration and cabinet environment.
- 02 Verify fixing torque, cooling clearances and unobstructed airflow.
- 03 Check protective earth, line, motor and optional braking-resistor connections.
- 04 Verify compatible Control Unit, firmware, motor data and commissioning parameters.
- 05 Retain the current Siemens manual and commissioning record with the machine file.

06

OFFICIAL DOCUMENTATION

[Siemens PM240-2 Hardware Installation Manual](#)

[Siemens exact product record](#)

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