

SIMOVERT MASTERDRIVES

Product Data Sheet

6SE7027-2ED84-1HF3

PEU3 power control board

FUNCTION PEU3 power control board	FAMILY SIMOVERT MASTERDRIVES	ORIGIN Germany	WEIGHT 0.9 kg
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Siemens SIMOVERT 6SE7027-2ED84-1HF3 is a PEU3 power control board for the SIMOVERT MASTERDRIVES. The values below are limited to the exact documented article.

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VERIFIED TECHNICAL DATA

Component Class	PEU3 power control board
Drive Family	SIMOVERT MASTERDRIVES
Primary Function	Controls the converter output semiconductor stage
Power Architecture	PEU3 inverter electronics
Voltage Class	510–620 V DC link
Current Rating	165 A output class
Power Section	Inverter output section
Mechanical Design	Plug-in power board
Electrical Interface	Power-stage and current-feedback plugs
Commissioning Check	Check phase output and insulation

- Apply the 165 A inverter output: Use 6SE7027-2ED84-1HF3 to control the converter output semiconductor stage within the documented SIMOVERT MASTERDRIVES. Confirm the inverter output section, electrical class and controlled system drawing before work.
- Prepare the PEU3 firing path: Record power-stage and current-feedback plugs, adjacent assemblies, cable routing, protective earth and configuration data. Preserve the exact 165 A PEU3 board arrangement during replacement.
- Complete the phase insulation test: Check phase output and insulation. Review Siemens diagnostics and record the final 165 A PEU3 board result before returning the affected function to service.

Match 6SE7027-2ED84-1HF3 to the installed SIMOVERT MASTERDRIVES, complete wiring, mating hardware, revision and approved configuration. A similar article number does not establish direct interchangeability.

[Siemens manufacturer documentation](#)

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