Siemens 7VE5120-4CA10-0A/FF

Paralleling Device

A legacy Siemens SIPROTEC 7VE51-family paralleling device. Siemens communication guidance identifies 7VE51 among units without IEC 60870-5-103 communication availability in that configuration.

01	02	03	04
SIPROTEC 7VE51 family	Paralleling-device function	Legacy communication context	Exact /FF suffix retained

System position

Two system voltage references	Paralleling checks	Close permissive decision	Breaker closing circuit

Evidence boundary

Only verified exact-model facts and explicitly identified family context are included. Similar codes are not treated as substitutes.

Verification focus

- Siemens
- 7VE5120-4CA10-0A/FF
- SIPROTEC 7VE51 family
- Exact /FF suffix retained

02 / CAPABILITY MAP

Engineering domains and architecture

Manufacturer	Siemens
Exact model	7VE5120-4CA10-0A/FF
Product family	SIPROTEC 7VE51
Function	Paralleling device

IEC 60870-5-103	No
Remote integration	Active mini star-coupler output
Order suffix	/FF

Interface architecture

Voltage references

Verify source selection, phasing and isolation from station drawings

Close permissive

Prove the complete breaker-closing path under test control

Blocking inputs

Reconcile interlocks and external inhibit signals

Remote communication

Assign a dedicated star-coupler output where the cited architecture is used

Baud rate

Set according to the installed unit in that communication arrangement

Auxiliary supply

Confirm the nameplate rating before applying power

Use cases with controlled scope

Generator paralleling	Bus coupling	Legacy station integration	Commissioning tests
Controlled synchronizing checks before generator breaker closure.	Paralleling supervision in a documented bus-coupler scheme.	Dedicated communication-path planning for a 7VE51 installation.	Voltage-reference, permissive, blocking and close-path verification.

INTEGRATION CHECKPOINTS

Identity	Host system	Configuration	Acceptance
Siemens 7VE5120-4CA10-0A/FF is preserved in full.	Rack, slot and surrounding hardware are verified.	Project, firmware and settings are recorded.	Functional evidence is captured before release.

System relationship

Two system voltage references	Paralleling checks	Close permissive decision	Breaker closing circuit

Configuration control

- Function: Paralleling device
- IEC 60870-5-103: No
- Remote integration: Active mini star-coupler output
- Order suffix: /FF

Decision matrix

Question	Answer
What is Siemens 7VE5120-4CA10-0A/FF used for?	It is a 7VE51-family paralleling device used in synchronizing-related schemes.
Does 7VE5120-4CA10-0A/FF support IEC 60870-5-103 communication?	The cited Siemens communication guidance lists 7VE51 among units for which that protocol function is not available in the described configuration.
How can a 7VE51 unit be integrated into the cited remote communication design?	Siemens shows use through an active mini star-coupler with one output assigned to each such device.
How is the communication rate selected?	It must be set according to the installed unit and the actual communication path.
Why must /FF remain in the model record?	The suffix is part of the exact identity and has not been decoded by the reviewed source.
Which circuits must be proved before enabling breaker close?	Verify voltage references, phase sequence, permissives, blocking inputs and the complete closing path.
Can another 7VE51 order code be used without review?	No. Confirm the full order code, wiring, settings and station scheme before substitution.

Eight release precautions

1 Isolate breaker closing circuits before changing the device or wiring.	**2** Retain the complete 7VE5120-4CA10-0A/FF identity including /FF.	**3** Verify both voltage references, phase sequence and transformer ratios.	**4** Prove all closing interlocks and blocking inputs before functional testing.
5 Do not assume IEC 60870-5-103 communication is available on 7VE51.	**6** Where an active mini star-coupler is used, allocate a dedicated output to the relay.	**7** Set the communication rate for the installed device rather than a nearby model.	**8** Perform a supervised closing-permissive test and archive the results.

Product verification and support

Apter Power verification record

Model identity	Keep the complete Siemens model code and every suffix in purchasing, installation and acceptance records.
Verification boundary	Confirm the physical nameplate, installed position and revision-controlled project documents before field work.
Apter Power support	Use the contact details and Apter Power website links in this document for product and sourcing support.

Related Apter Power products	Exact product page
Siemens 6DD1681-0AE2	View Siemens 6DD1681-0AE2
Siemens 6DD1681-0AG2	View Siemens 6DD1681-0AG2
Siemens 6ES5928-3UB21	View Siemens 6ES5928-3UB21
Siemens 6ES5734-1BD20	View Siemens 6ES5734-1BD20

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Scan for the Apter Power contact page.

Model record Siemens 7VE5120-4CA10-0A/FF Paralleling Device Verify the complete nameplate before installation.

Source and identity trace

- Exact identity: Siemens 7VE5120-4CA10-0A/FF
- Siemens SIPROTEC 4 Catalog, Edition No. 8, communication section: 7VE51 integration using an active mini star-coupler
- Siemens SIPROTEC 5 7VE85 Manual: product-family designation as paralleling devices