Siemens 7UM5111-4CB01-0BB0/JJ

Machine Protection Relay

A legacy Siemens SIPROTEC 7UM51-family relay used for machine protection duties. The /JJ suffix is retained as part of the exact supplied identity and is not decoded without a matching order-code source.

Job objective

Replace, install or verify the exact module without changing unrelated wiring, configuration, dimensions, weight or other stored product data.

Safe-work boundary

Identify Match the complete model and every suffix or secondary code.	**Isolate** Apply the plant-approved electrical and process isolation procedure.
Preserve Back up configuration and photograph all connections.	**Control** Use ESD protection and revision-controlled documentation.

Required evidence before work

Nameplate photo; slot/rack record; connector map; project backup where applicable; fault history; approved acceptance procedure.

Verification focus

- Siemens
- 7UM5111-4CB01-0BB0/JJ
- SIPROTEC 7UM51 family
- Exact /JJ suffix retained

Readiness checklist

Exact identity	Siemens 7UM5111-4CB01-0BB0/JJ matches the work order and physical unit
System position	Rack, slot and functional assignment are recorded
Configuration	Parameters, firmware or project data are backed up when applicable
Connections	Every cable, terminal, jumper and shield is labeled
Condition	Connector, board and packaging condition are inspected
Test plan	Expected states and acceptance evidence are agreed

Interface preparation

Measured quantities	Use the exact relay terminal plan and project drawings
Trip circuits	Verify coil circuit, polarity and trip matrix before service
Binary signaling	Reconcile every alarm and status point with the station list
Settings transfer	Use an approved setting file or signed setting sheet
Panel supply	Confirm the installed rating from the relay nameplate
Test interface	Apply the site-approved secondary-injection procedure

Interface acceptance record

- Measured quantities: Use the exact relay terminal plan and project drawings
- Trip circuits: Verify coil circuit, polarity and trip matrix before service
- Binary signaling: Reconcile every alarm and status point with the station list
- Settings transfer: Use an approved setting file or signed setting sheet

03 / INSTALLATION SEQUENCE

Controlled replacement workflow

1	Confirm isolation and absence of hazardous energy
2	Compare old and replacement identities and revisions
3	Photograph and label all connections
4	Remove the existing module using ESD-safe handling
5	Inspect slot, connector, grounding and cooling path
6	Install the exact replacement without forcing connectors
7	Restore cables, jumpers and settings from the controlled record
8	Perform a final visual and continuity check before energization

STOP POINT

Do not energize if the model, slot, connector orientation, grounding, jumper state or documented system assignment is unresolved.

Configuration control

- Protection duty: Machine protection
- Catalog status: Earlier product family
- Catalog successor family: 7UM61 / 7UM62
- Order suffix: /JJ

Staged return to service

Stage	Action	Acceptance
Stage 1	Visual inspection and isolation release	Expected controlled result
Stage 2	Apply control power under observation	Expected controlled result
Stage 3	Confirm module recognition or status	Expected controlled result
Stage 4	Verify communication and affected signal paths	Expected controlled result
Stage 5	Exercise the documented function	Expected controlled result
Stage 6	Archive measured results and as-left configuration	Expected controlled result

Product-specific acceptance focus

1

Confirm current- and voltage-circuit safety requirements before testing.

2

Do not assume a nearby 7UM51 order code has the same hardware or terminals.

3

Prove each intended trip and alarm path by the approved commissioning method.

4

Archive the as-left settings, test results and installed serial information.

Release evidence

- Confirm current- and voltage-circuit safety requirements before testing.
- Do not assume a nearby 7UM51 order code has the same hardware or terminals.
- Prove each intended trip and alarm path by the approved commissioning method.
- Archive the as-left settings, test results and installed serial information.

Fault isolation and final record

1	Unexpected state: stop and capture evidence
2	Recheck identity, power, slot and connectors
3	Compare configuration and revision records
4	Test surrounding system before condemning the module
5	Restore a safe state and document the outcome

Apter Power handover 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 7UT5121-4CB01-0AA0/LL	View Siemens 7UT5121-4CB01-0AA0/LL
Siemens 7VE5120-4CA10-0A/FF	View Siemens 7VE5120-4CA10-0A/FF
Siemens 6DD1681-0AE2	View Siemens 6DD1681-0AE2
Siemens 6DD1681-0AG2	View Siemens 6DD1681-0AG2

Commissioning support sales13@apterpower.com +86 180 3023 5313 www.apterpower.com

Source and identity trace

- Exact identity: Siemens 7UM5111-4CB01-0BB0/JJ
- Siemens SIPROTEC 4 Catalog, Edition No. 8, product-assignment appendix: 7UM51 machine protection; later family 7UM61/62