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.

01	02	03	04
SIPROTEC 7UM51 family	Machine protection function	Legacy protection-panel context	Exact /JJ suffix retained

System position

Machine measurement circuits	7UM51 protection processing	Trip and alarm logic	Controlled machine shutdown or indication

Evidence boundary

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

Verification focus

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

02 / CAPABILITY MAP

Engineering domains and architecture

Manufacturer	Siemens
Exact model	7UM5111-4CB01-0BB0/JJ
Product family	SIPROTEC 7UM51
Protection duty	Machine protection

Catalog status	Earlier product family
Catalog successor family	7UM61 / 7UM62
Order suffix	/JJ

Interface architecture

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

Use cases with controlled scope

Generator protection	Motor protection	Relay replacement	Commissioning support
Machine-protection service in a documented legacy relay scheme.	Protection-panel maintenance where the installed 7UM51 configuration is retained.	Like-for-like spare evaluation using full order code and settings records.	Secondary injection, trip-path proving and as-left documentation.

INTEGRATION CHECKPOINTS

Identity	Host system	Configuration	Acceptance
Siemens 7UM5111-4CB01-0BB0/JJ 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

Machine measurement circuits	7UM51 protection processing	Trip and alarm logic	Controlled machine shutdown or indication

Configuration control

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

Decision matrix

Question	Answer
What is Siemens 7UM5111-4CB01-0BB0/JJ used for?	It belongs to the SIPROTEC 7UM51 machine-protection family for legacy protection schemes.
Can 7UM61 or 7UM62 replace Siemens 7UM5111-4CB01-0BB0/JJ directly?	The Siemens catalog identifies 7UM61/62 as later families, but that is not proof of drop-in compatibility; engineering conversion is required.
Why must /JJ remain in the Siemens 7UM5111-4CB01-0BB0/JJ record?	The suffix is part of the supplied identity and may distinguish an order-code option that has not been decoded in the reviewed source.
What should be captured before removing Siemens 7UM5111-4CB01-0BB0/JJ?	Record the nameplate, terminal wiring, setting values, trip matrix, binary assignments and installed position.
How should the replacement settings be accepted?	Compare them with the approved protection study and prove the required trip and alarm functions by controlled secondary injection.
Can a nearby 7UM51 order code be treated as equivalent?	No. The full order code, hardware configuration and project records must be reconciled before substitution.
What closes commissioning for Siemens 7UM5111-4CB01-0BB0/JJ?	Signed test results, verified trip paths, restored alarms and an archived as-left setting record close the work.

Eight release precautions

1 De-energize and isolate every trip, alarm and measurement circuit before removal.	**2** Preserve the complete 7UM5111-4CB01-0BB0/JJ identity; do not omit /JJ.	**3** Record terminal numbers and conductor markers before disconnecting the relay.	**4** Back up the approved protection settings and trip matrix before replacement.
5 Confirm current- and voltage-circuit safety requirements before testing.	**6** Do not assume a nearby 7UM51 order code has the same hardware or terminals.	**7** Prove each intended trip and alarm path by the approved commissioning method.	**8** Archive the as-left settings, test results and installed serial information.

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 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

Apter Power technical and sourcing support
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Scan for the Apter Power contact page.

Model record Siemens 7UM5111-4CB01-0BB0/JJ Machine Protection Relay Verify the complete nameplate before installation.

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