Siemens 7UT5121-4CB01-0AA0/LL

Transformer Differential Relay

A legacy Siemens 7UT512-family transformer differential relay. The /LL suffix remains part of the exact identity because the reviewed catalog does not decode that option.

01	02	03	04
7UT512 transformer protection family	Differential protection duty	Protection-panel installation	Exact /LL suffix retained

System position

Transformer CT circuits	Differential and restraint processing	Protection decision	Trip, alarm and event outputs

Evidence boundary

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

Verification focus

- Siemens
- 7UT5121-4CB01-0AA0/LL
- 7UT512 transformer protection family
- Exact /LL suffix retained

02 / CAPABILITY MAP

Engineering domains and architecture

Manufacturer	Siemens
Exact model	7UT5121-4CB01-0AA0/LL
Product family	SIPROTEC 7UT512
Protection duty	Transformer differential protection

Catalog status	Earlier product family
Catalog successor family	7UT612
Order suffix	/LL

Interface architecture

CT inputs

Verify ratio, polarity, phase assignment and secondary grounding

Trip outputs

Check the approved breaker and lockout trip matrix

Binary inputs

Reconcile blocking, reset and interlock assignments

Alarm outputs

Confirm annunciation and supervisory circuit mapping

Auxiliary supply

Read the installed nameplate rating before energization

Test circuit

Use the station secondary-injection and trip-test procedure

Use cases with controlled scope

Power-transformer protection	Legacy relay replacement	Protection testing	Outage maintenance
Differential protection in a documented transformer relay scheme.	Exact-order-code spare evaluation with CT and trip-circuit records.	Bias/restraint and trip-path verification against approved settings.	Controlled relay change with settings and event-record preservation.

INTEGRATION CHECKPOINTS

Identity	Host system	Configuration	Acceptance
Siemens 7UT5121-4CB01-0AA0/LL 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

Transformer CT circuits	Differential and restraint processing	Protection decision	Trip, alarm and event outputs

Configuration control

- Protection duty: Transformer differential protection
- Catalog status: Earlier product family
- Catalog successor family: 7UT612
- Order suffix: /LL

Decision matrix

Question	Answer
What is the primary duty of Siemens 7UT5121-4CB01-0AA0/LL?	It is a 7UT512-family transformer differential protection relay.
Is Siemens 7UT612 a direct replacement for 7UT5121-4CB01-0AA0/LL?	Siemens identifies 7UT612 as a later product family, but conversion of wiring, settings and scheme logic must be engineered.
Which CT checks are essential before commissioning 7UT5121-4CB01-0AA0/LL?	Confirm ratio, polarity, phase assignment, secondary grounding and the approved transformer vector compensation.
Why is /LL preserved in the model?	Retain /LL exactly in identification, settings, spare selection and handover records; do not expand or remove the suffix.
Can settings be copied from another 7UT512 relay?	Only after the protection study, transformer data, CT data and hardware identity are proven to match.
How is differential restraint verified?	Use the approved secondary-injection plan to test operating and restraint regions without energizing primary equipment.
What evidence is required at handover?	Provide the exact nameplate, approved settings, injection results, trip-path proof and the as-left wiring record.

Eight release precautions

1 Short and safely isolate CT secondary circuits before disturbing relay wiring.	**2** Retain the complete 7UT5121-4CB01-0AA0/LL identity in every record.	**3** Verify CT ratio, polarity, phase sequence and grounding against drawings.	**4** Back up approved differential and restraint settings before removal.
5 Do not infer terminal equivalence from another 7UT512 order code.	**6** Confirm every blocking, interlock, alarm and lockout path before energization.	**7** Use controlled secondary injection to prove operating and restraint behavior.	**8** Record as-left settings, test currents, trip times and restored indications.

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 7VE5120-4CA10-0A/FF	View Siemens 7VE5120-4CA10-0A/FF
Siemens 6DD1681-0AE2	View Siemens 6DD1681-0AE2
Siemens 6DD1681-0AG2	View Siemens 6DD1681-0AG2
Siemens 6ES5928-3UB21	View Siemens 6ES5928-3UB21

Apter Power technical and sourcing support
sales13@apterpower.com +86 180 3023 5313 www.apterpower.com
Scan for the Apter Power contact page.

Model record Siemens 7UT5121-4CB01-0AA0/LL Transformer Differential Relay Verify the complete nameplate before installation.

Source and identity trace

- Exact identity: Siemens 7UT5121-4CB01-0AA0/LL
- Siemens SIPROTEC 4 Catalog, Edition No. 8, product-assignment appendix: 7UT512 transformer differential relay; later family
- Siemens Protective Relays and SCADA Systems selection guide: 7UT512 transformer protection