CONTENTS

THE HEAD OF NETWORK ENGINEERING

Germana GIANNINI

1. DOCUMENT AIMS AND APPLICATION AREA

The scope of this document is to describe the procedures for technical conformity assessments of components and equipment to be supplied (directly or indirectly) to all Enel Global Infrastructure and Networks Countries:

Country	Distribution Company
Argentina	Edesur
Brazil	Enel Distribuição Rio Enel Distribuição Ceará Enel Distribuição São Paulo
Chile	Enel Distribución Chile
Colombia	Enel Colombia
Iberia	e-distribución
Italy	e-distribuzione

Table 1

This document shall be implemented and applied to the extent possible within the Enel Grids and Innovation Business Line and in compliance with any applicable laws, regulations and governance rules, including any stock exchange and unbundling-relevant provisions, which in any case prevail over the provisions contained in this document

1.1 RELATED DOCUMENTS TO BE IMPLEMENTED AT COUNTRY LEVEL

This document does not require the implementation of further documents. Anyway, each Enel Grids Company can issue, under the supervision of Enel Grids and Innovation Global Network Engineering detailed documents, according to the provisions of the present document and in case of specific needs.

2. DOCUMENT VERSION MANAGEMENT

Version	Date	Main changes description
0	06/11/2015	First issuing of the TCA procedure GSCG002 Technical Conformity Assessment
1	30/05/2016	Editorial review TCA procedure GSCG002 Technical Conformity assessment
2	7/11/2018	Introduction of first-party TCA. Introduction of supplier's declaration of conformity and reference to ISO/IEC 17050-1 and ISO/IEC 17050-2.

		Introduction of the legal declaration. Introduced definition of certification and Conformity assessment body. Modified definition of Technical Department. Update characteristics of the TCA final attestation. Clarifications about penalties notification and contestation. Introduced concepts of kick-off meetings and TCA planning. Eliminated TCA system dependence with respect to the type of surveillance. Introduction of possible TCA management by an online system. Eliminated the sentence about the routine tests not covered by type tests in case of S TCA system. Possibility to have different TCA systems for different components in the same contract. TD informed us of test applicability in case of T TCA scheme. New software upgrade section. New reference to the document "Quality Specification for Electronic Assemblies".
3	16/03/2021	Modification due to organization changes of Global Infrastructure and Networks - GSCG002 Technical Conformity Assessment
4	28/05/2026	Alignment to the new format New requirements for third party New requirement for devices Device FW & SW update New rules for TCA suspension Other minor changes

3. UNITS IN CHARGE OF THE DOCUMENT

Responsible for drawing up the document:

- Enel Grids and Innovation: Network Engineering and Development / Network Engineering

Responsible for authorizing the document:

- Enel Grids and Innovation: Network Engineering unit;
- Enel Grids and Innovation: Operational Excellence and Processes Quality unit.

4. REFERENCES

- Integrated Policy for Quality, Health and Safety, Environment, anti-Bribery and Information Security;
- ISO 9001- Quality Management System – Requirements;
- ISO 14001 - Environmental Management System - Requirements with guidance for use;
- ISO 45001 - Occupational Health and Safety Management System - Requirements with guidance for use;

- ISO 37001 - Anti-bribery Management System - Requirements with guidance for use;
- ISO 27001 - Information Security Management System – Requirements.
- GRI-GRI-SER-O&M-0007 Quality Control Activities - Automatic Test Systems
- GRI-GRI-SER-O&M-0006 Quality specification for electronic assemblies
- ISO/IEC 17000 - Conformity assessment – Vocabulary and general principles
- ISO/IEC 17020 - General criteria for the operation of various types of bodies performing inspection
- ISO/IEC 17025 - General requirements for the competence of testing and calibration laboratories
- ISO/IEC 17050-1 - Conformity assessment - Supplier's declaration of conformity - Part 1: General requirements (ISO/IEC 17050-1:2004, corrected version 2007-06-15)
- ISO/IEC 17050-2 - Conformity assessment - Supplier's declaration of conformity - Part 2: Supporting documentation (ISO/IEC 17050-2:2004)
- ISO/IEC 17065 - Conformity assessment – Requirements for bodies certifying products, processes and services
- GICT-SGL_12_V02_ICS - Cyber Security Guideline no. 12

Reference documents listed above (amendments included) shall be the edition in-force at the contract date.

Group Pillar References:

- The Code of Ethics of Enel Group;
- The Enel Group Zero Corruption Tolerance Plan (ZTC);
- Human Rights Policy;
- Organization and Management Model as per Legislative Decree No. 231/2001;
- Enel Global Compliance Program (EGCP).

5. ORGANIZATIONAL PROCESS POSITION IN THE PROCESS TAXONOMY

- Value Chain/Process Area: Engineering
- Macro Process: Devices and Components Development
- Process: Standard Catalog Management

6. DEFINITIONS AND ACRONYMS

Acronym and Key words	Description
Manufacturer Product	Component manufactured by a Supplier in accordance with a technical specification
Technical Conformity Assessment (TCA)	A "conformity assessment[1] with respect to "specified requirements"[2] consists in functional, dimensional, constructional and test characteristics required for a product (or a series of products) and quoted in technical specifications and quality requirements issued by Enel companies. This also includes the verification of conformity with respect to international and local applicable regulation and laws and possession of relevant requested certifications
Conformity assessment body	Body that performs the conformity assessment activities [ISO17000]
First-party conformity assessment (F)	Conformity assessment activity that is performed by the person or organization that provides the object [ISO 17000 – ref. 2.2]
Second-party conformity assessment (S)	Conformity assessment activity that is performed by a person or organization that has a user interest in the object [ISO 17000 – ref. 2.3]
Third-party conformity assessment (T)	Conformity assessment activity that is performed by a person or body that is independent of the person or organization that provides the object, and of user interests in that object [ISO 17000 - ref. 2.4]
Enel Equipment Key code	It's an equipment representative for a group (family) of similar equipment chose by Enel
Enel Equipment Family code	Equipment belonging to a specific group (family) in which another equipment is identified as key code
TCA systems	The "technical conformity assessment systems", is applicable specifying that the rules and procedures to carry on the TCA are those specified in the present document

[1] Definition 2.1 of ISO/IEC 17000
[2] Definition 3.1 of ISO/IEC 17000

Type A documentation	Not confidential documents used for product manufacturing and management from which it is possible to verify the product conformity to all technical specification requirements, directly or indirectly
Type B documentation	Confidential documents used for product manufacturing and management where all product project details are described, in order to uniquely identify the product object of the TCA
TCA report	Document describing the activities carried out for TCA
TCA dossier	Set of final documents delivered by the Supplier for the TCA
Supplier's Declaration of Conformity (SDC)	Is a "declaration", i.e. first-party attestation [ISO 17000 – ref. 5.4]
Statement of Conformity (SC)	Product conformity attestation consisting in an official document issued by ENEL, following a second-party TCA [ISO/IEC 17000]
Certification Acknowledgment (CertA)	Official document issued by ENEL attesting the acknowledgment[3] of a certification[44], following a third-party TCA
Certification	Third-party attestation related to products, processes, systems or persons [ISO/IEC 17000]
Legal declaration of conformity	Official document issued by a legal representative of the Supplier declaring the product conformity to all relevant laws and standard in force in the country of installation of the product.
Material LifeCycle Management (MLM)	Integrated IT platform to manage the processes of Technical Specifications (TSM), Technical Conformity Assessment (TCA), Quality Control Tools (QCA), Defects Managing (CMD), Warranties and Materials Shipping (MSH)

[3] 7.5 of ISO/IEC 17000
[4] 5.5 of ISO/IEC 17000

7. DESCRIPTION

7.1 Manufacturer product

Component manufactured by a Supplier in accordance with a technical specification issued by Enel and identified by:

- Enel type code (e.g. GSX00Y/ZZ) and/or local codification (e.g. 123456)
- Supplier's type designation
- Product documentation (see 7.5)
- Manufacturing factory
- Critical manufacturing technology, when relevant to product conformity.[5]

7.2 Costs and penalties

All costs related to the TCA shall be borne by the Supplier, according to the applicable contractual documentation. Flat-rate fees, cost recovery or penalties may be applied as indicated in the applicable contractual documentation.

Without prejudice to the contractual provisions, the following events may be recorded in MLM and notified to the Supplier:

- failed or repeated inspections due to Supplier’s responsibility;
- unavailability or inadequate preparation of Supplier’s facilities, test room or test samples;
- non-compliance with the minimum notification times indicated in 10.3.

[5] Manufacturing technology shall be considered relevant when it may affect product conformity or when it is explicitly required by the applicable technical specification. Routine production adjustments or corrective actions within the approved manufacturing technology shall not, by themselves, be considered a change to the product object of the TCA

7.3 TCA request

The TCA request is the procedure by which the Supplier shall identify the products for which it wants to open a TCA process, giving information like: Supplier's contacts, product codes, type of TCA, third bodies accreditations, manufactory factory, others.

7.4 Third-party conformity assessment body (hereinafter "third body") accreditations

7.4.1. Selection and determination

In case of TCA system requests whereby selection and determination functions are carried out by third-party, the Supplier shall select and submit to ENEL approval a third body.

The Organization appointed to perform inspection and/or certification activities shall hold valid accreditation in accordance with ISO/IEC 17020 (for inspection bodies) or ISO/IEC 17065 (for certification bodies), issued by an Accreditation Body officially recognized at national or international level.

As an alternative to formal accreditation, documented evidence of equivalence may be accepted solely at Enel's discretion, provided that the Organization formally demonstrates, in an objective, verifiable and documented manner, full compliance with the principles, requirements and control mechanisms established by the applicable reference standard.

Such demonstration of equivalence shall include, as a minimum and without limitation, evidence of:

- Organizational impartiality and independence, supported by documented safeguards;
- Identification, prevention and effective management of conflicts of interest;
- Proven technical competence of all personnel involved in the relevant activities;
- Effective and demonstrable separation between technical evaluation activities and final decision-making authority;
- mplementation of documented, traceable and controlled processes governing all inspection and/or certification activities;
- Formal procedures for the management of complaints, appeals and non--conformities;
- Clear attribution of responsibility and maintenance of adequate professional liability insurance coverage.

The acceptance of equivalence shall not be construed as automatic, permanent or unconditional and shall be limited strictly to the specific scope, activities and duration expressly approved by Enel.

Enel reserves the unconditional right, at any time and without prior notice, to:

- Verify, validate or reject the declared equivalence;
- Request additional documentation or evidence;
- Impose limitations, conditions or corrective actions;
- Perform audits, document reviews and on-site assessments;
- Revoke the recognition of equivalence in the event of non-compliance, material changes or insufficient evidence.

The use of an Organization accepted based on equivalence shall not transfer to such Organization any regulatory, certification or decision-making responsibility beyond the scope explicitly authorized by Enel, nor shall it limit Enel's rights under applicable contracts or regulations.

7.5 Product documentation

All documentation (A and B type) shall be written in the local language of the country of destination of the product and in English.

7.5.1. Type A documentation

Copy of the approved and endorsed type A documentation is delivered to ENEL, and the Supplier authorizes its reproduction and diffusion internally to Enel Group companies.

As general criteria, unless otherwise indicated in the technical specifications, type A documentation at least consists of:

- Type A and type B (see 7.5.2) documents list
- Operation, maintenance and installation manuals
- Software manuals overall dimensional drawings and main details
- Nameplate(s) drawing
- List of the Suppliers of main sub-components
- Description of the critical manufacturing technology, when relevant to product conformity or explicitly required by the applicable technical specification
- Product coloured pictures

- Whatever needed to give evidence of compliance to all technical specification requirements
- Configuration manuals (only for devices)
- Release Note (new features, bug fixes and malfunctions, ecc) (only for devices)
- Supplier's certification of the list of non-regression tests performed for the update in question (only for devices)
- Supplier's certification of the list of 'first user' tests carried out (only for devices)
- Eventual ATS documentation, as described in GRI-GRI-SER-O&M-0007
- Eventual compliance declarations related to electronics, in accordance to GRI-GRI-SER- O&M-0006
- Eventual compliance declaration related to cyber security, in accordance to Cyber Security Guideline no. 12

All documents shall be compliant with ISO 9001 criteria; therefore, they shall be uniquely identified by name, revision and issue date, with a clear Supplier identification (e.g. by mean of Supplier's letterhead).

7.5.2. Type B documentation

Type B documentation, consisting of the Supplier's reference materials and know-how required for product manufacturing, shall be approved by Enel and preserved by the Supplier.

All documents shall be compliant with ISO 9001 criteria; therefore, they shall be uniquely identified by name, revision and issue date, with a clear Supplier identification (e.g. by means of Supplier's letterhead).

7.6 Tests

7.6.1. General requirements

As general rule, unless otherwise indicated in the technical specifications, required tests shall be carried out on a sample of each product subject to the TCA.

All tests shall be carried out in a laboratory compliant with one of the following criteria:

a) a laboratory accredited according to ILAC (International Laboratory Accreditation Cooperation) to operate in compliance with ISO/IEC 17025 for each specific test to be carried out; the laboratory will issue a test report;

b) a non-accredited laboratory (including the Supplier's laboratory) under the supervision of a third body accredited for selection and determination (see 7.4.1); the third body will issue an inspection report attesting the laboratory suitability and the test result, attaching the test report issued by the laboratory;

c) For specific cases with family codes, tests in the First Party Certification, could be carried out in the Supplier's laboratory and self-certificated; the laboratory shall be operated in compliance with ISO 9001 requirements.

We talk about Enel equipment family codes when in the same contract there's an Enel equipment key code with a TCA carried out in second or third part. In all cases, the laboratory shall carry out a sample identification according to 7.6.2.

The selection of TCA model (F, S, T) is made time by time during the tender process definition depending on several constraints, such as classification of the components (key, family), risk level of the components, delivery time, rated voltage, and others.

Usually third-party TCA (T) is selected for key codes and first-party TCA (F) for family's codes. For very risky and complex equipment such as power transformers, usually second party (S) TCA is preferred.

7.6.2. Sample identification

Test reports shall contain a proper test sample identification consisting at least in:

- Supplier's type designation
- Manufacturing Factory
- Ratings and main technical characteristics
- Overall dimension drawing
- Electrical schemes (when relevant)
- Pictures
- Whatever required by technical specifications and/or applicable standards
- Test conditions
- Any relevant information useful to identify the test sample.

7.6.3. Test applicability

Unless otherwise stated in the applicable technical specification or standard, test applicability shall be justified by the Supplier and approved according to the applicable TCA system: by the Supplier under F TCA, by ENEL under S TCA, and by the third body under T TCA. ENEL reserves the right to verify the consistency and completeness of the applicability assessment and related test reports within the TCA dossier review and final attestation process.

The Supplier shall provide (F TCA system included) a technical report (hereinafter *"Applicability Report")* for each test, including the details according to the table below. The Applicability Report shall always include annexing all the relevant test reports, technical documents, drawings and anything necessary for the assessment.

Test applicability shall be compliant with basic criteria according to product relevant standard.

This information shall be uploaded in MLM in different phases of the process as described in section *10-Management of the TCA process in MLM-TCA*.

The following cases are identified[6]:

	Sample under test	**Test status**	**Reference technical specifications and/or standards**	**Content of the Applicability Report**
Case 1	specific product object of TCA	To be performed	In force	Not required
Case 2	specific product object of TCA	Already performed	In force	Not required
Case 3	similar product object of TCA	To be performed	In force	Detailed description of similarities of the products with regard to the test
Case 4	similar product not object of TCA	Already performed	In force	Detailed description of similarities of the products with regard to the test
Case 5	specific product object of TCA	Already performed	Expired/different	Detailed description of similarities of the reference technical specifications and/or standards regard to the test
Case 6	similar product not object of TCA	Already performed	Expired/different	Detailed description of similarities of the products and the reference technical specifications and/or standards with regard to the test

Table 2 - Tests applicability cases

[6] According to 7.6.1, tests are generally carried out on the specific product object of TCA (Case 1) of the table

Test reports' validity is limited to 15 years, so they cannot be used for new TCA or TCA updates (see chapter 11) when the test report's issuing date is longer than 15 years on the day of the TCA request.

7.7 TCA report

The TCA report shall contain at least:

- The list of all technical specifications and standards used as reference for the TCA, specifying their name, revision and issue date;
- The identification of the product object of the TCA, by mean of the elements listed in 7.1;
- The tests table (see the template in ANNEX A), including test reports and applicability reports;
- The reference values and acceptability ranges to be used for routine tests (if any);
- A detailed description of any possible exception approved by ENEL with respect to technical requirements;
- Any possible certifications/declarations requested by local regulation and law.

In case that more products are object of the same TCA, it’s possible to provide a single TCA report. TCA report shall be identified with revision and issue date.

7.8 TCA dossier

For each product object of the TCA the Supplier shall provide on a digital support a dossier consisting in:

- TCA report
- Copy of the endorsed (stamped and signed) type A documentation
- Third-body certification (in case of functions carried out by third-party)
- Supplier’s declaration of conformity, signed by a legal representative of the Supplier (see ANNEX C);
- Legal declaration of conformity, signed by a legal representative of the Supplier (see ANNEX D.1).

For some specific components allocated to Spain (see ANNEX E) this document is replaced by the document named “Declaración de Conformidad” (see ANNEX D.2) a copy of which has to be delivered with each component supplied in Spain.

In case that more products are object of the same TCA, it’s possible to provide a single TCA dossier.

The Supplier shall preserve the TCA dossier and all the relevant documents for at least 10 years from the TCA final attestation.

7.9 TCA final attestation

At the end of the TCA process, ENEL will send a communication consisting of:

- A confirmation of the TCA dossier reception, in case of F TCA system;
- The “Statement of Conformity (SC)”, in case of S TCA system;
- The “Certification Acknowledgment (CA)”, in case of T TCA system.

This communication, submitted by an automatic mail from MLM, will indicate:

- The identification of the Supplier;
- Reference to this document (GSG002);
- The list of all technical specifications used as reference for the TCA, specifying their name, revision and issue date;
- The identification of the product, by mean of the elements listed in 7.1;
- Reference to the TCA report and/or to the third-party certification;
- Referents for ENEL

In case that more products are object of the same TCA, it’s possible to provide a single TCA final attestation.

7.10 TCA management and planning

To start and plan the TCA activities and share all possible Supplier’s doubts (technical and/or procedural), ENEL could ask to have a kick-off meeting on its premises, on the Supplier premises or remotely.

Independently to the applicable TCA system, the Supplier shall keep ENEL continuously updated about the TCA status and the activities planning, in order to give a reliable forecast of the TCA conclusion. To do that, the supplier shall systematically keep MLM system updated.

8. TCA SYSTEMS

According to the functional approach stated in Annex 1 of ISO/IEC 17000, the following TCA systems are defined, depending on the performer of the various functions (first-party, second-party, or third-party).

The contract states which system shall be followed for each component (different TCA systems could be requested for different components in the same contract).

TCA system type	Selection	Determination	Review	Attestation
F	first-party	first-party	first-party	second-party
S	second-party	second-party	second-party	second-party
T	third-party	third-party	third-party	second-party

Table 3 - TCA systems

9. TCA FUNCTIONS DESCRIPTION

9.1 Selection (see A.2 of ISO/IEC 17000)

9.1.1. Type A documents preliminary approval

The Supplier shall provide Type A documents to the conformity assessment body for a preliminary analysis and approval to verify (on paper) their compliance with the requirement of the technical specification.

Independently from the applicable TCA system, possible request of exception with respect to the technical specification shall be clearly requested to ENEL in this phase and highlighted through the Type A documents. The approval of the exception request is at total discretion of ENEL (if selection function is performed by third-party, the third body shall require including ENEL official approval of exceptions in Type A documentation).

9.1.2. Tests applicability approval

The Supplier shall provide approval to the conformity assessment body at the tests table (see the template in ANNEX A) with the relevant test reports and applicability reports.

9.1.3. Tests planning approval

The Supplier shall provide for approval to the conformity assessment body (see par. 10.3 for minimum notification time, applicable in case of S and T TCA systems) a detailed plan of tests, specifying for each test the following information:

- Date (start and finish)
- Place
- Accreditation information (of the laboratory or of the third body, in case of non-accredited laboratory)

9.1.4. Prototype(s) selection

According to par. 4.1 of ISO/IEC 17000 one (or more) sample(s), compliant with approved preliminary Type A documents, shall be manufactured and selected by the Supplier. If not differently required by technical specifications, the Supplier can decide the number of identical specimens to be used for the TCA. All samples shall be at the expense of the Supplier.

9.2 Determination (see A.3 of ISO/IEC 17000)

9.2.1. Prototype visual inspection

According to par. 4.3 of ISO/IEC 17000 an inspection of a prototype selected by the Supplier (see 9.1.4) is necessary to verify dimensional, constructive and functional compliance with:

- Technical specifications;
- Preliminary approved Type A documents;

As far as possible, definitive Type A and B documents, shall be made available in paper copy by the Supplier during the inspection.

In case of negative result of the inspection, the Supplier shall perform the requested modifications on all selected samples and, if necessary, the prototype visual inspection shall be repeated.

In case of third-party determination, ENEL could anyway perform an additional prototype visual inspection.

ENEL may require the Supplier to set up an online visual inspection (OVI) in order to perform effective prototype inspection remotely.

9.2.1.1 Online Visual Inspection (OVI)

According to previous point ENEL can request to carry out an online visual inspection for which shall be previously agreed by means of a specific procedure.

The prototype should have implemented all the technical requirements that have been determined during the homologation process. The manufacturer should have the necessary personal, tools, and technical requirements to be able to carry out all the tests. Likewise, all staff attending the OVI shall comply with those necessary measures that guarantee their safety during the tests.

The OVI requires a set of high-definition video cameras, fixed and mobiles, with independent adjustments according to the needs of the test to be carried out and previously defined in the procedure. Cameras should be able to broadcast in-situ the execution of any test, close-up focus, zoom in and general plan. Mobile cameras must allow for shiftment to any device of the equipment where a more detailed check is required.

All the tests carried out during the OVI have to be recorded (video and audio) by ENEL and/or by the Supplier. All graphic reports collected by the Supplier during the OVI should be subsequently sent to Enel with the respective final report of the tests carried out.

9.2.2. Type A and type B documents endorsement

In case of S and T TCA systems, after the positive result of the prototype visual inspection, the definitive versions of Type A documents and, if considered necessary, Type B documents will be endorsed in order to freeze the product object of the TCA.

In case of S TCA system, the endorsement of type A documents could be performed electronically; if an on-line system is used to manage the TCA, the endorsement can be avoided.

9.2.3. Tests execution and witness

After the positive result of the prototype visual inspection, the Supplier can proceed with tests execution according to the approvals described in 9.1.2 and 9.1.3. Test shall be performed on sample(s) selected in 9.1.4 considering rules of 7.6.

ENEL has the right to witness all planned tests, therefore ENEL shall be informed about test planning and all its modifications, with the minimum notice stated in 10.3 (only for TCA systems S and T).

If the device involved in the TCA process includes a SW (Software) component, after the Type A documents preliminary approval, the Supplier can proceed with the execution of the tests on the SW according to approvals described in 9.1.2 and 9.1.3 ENEL has the right to witness all planned tests.

Therefore, ENEL shall be informed about test planning and all its modifications, with the minimum notice stated in 10.3. (only for TCA systems S and T).

9.3 Review (see A.4 of ISO/IEC 17000)

According to par. 5.1 of ISO/IEC 17000, after the positive result of the determination function, the following documentation shall be reviewed, in order to verify the fulfillment of technical specification and of the present procedure:

- TCA report (see 7.7)
- The approved type A documents
- The type B reference documents

In particular, the correspondence between the inspected prototype and tested samples shall be verified by checking the endorsed type A documents and the test samples identification (see 7.6.2).

In case of third-party review, the third body shall issue a certification to guarantee the positive technical conformity assessment with respect to the relevant technical specification and to the present procedure.

If the device involved in the TCA process includes a SW (Software) component, the function responsible for the review has the right to repeat the execution of a sample of the planned tests in the presence of the Supplier.

9.4 Attestation (see A.4 of ISO/IEC 17000)

After positive results of review function, the Supplier shall provide the ENEL the complete TCA dossier (see 7.8).

According to par. 5.2 of ISO/IEC 17000, if the dossier is compliant with requirements of this procedure, ENEL will provide the TCA final attestation (see 7.9).

10. DETAILED CONFORMITY ASSESSMENT PROCEDURES

10.1 Sequence of activities and responsibilities

The following table, for each TCA phase, reports the normal sequence of activities with the relevant assignment of responsibilities.

ENEL (only for TCA systems S and T) shall approve every deviation with respect to this sequence. Nevertheless, any possible consequence (e.g. repetition of tests, delays) from such deviation is at the Supplier risk.

			TCA system type F		TCA system type S		TCA system type T		
MLM Phase	**Description**	**Reference paragraph**	**Supplier**	**ENEL**	**Supplier**	**ENEL**	**Supplier**	**ENEL**	**Third Body**
1-1.1-2	TCA request	7.3	R	A	R	A	R	A	-
3-3.1	Type A preliminary documents	9.1.1	R+A	- /A*	R	A	R	I/A*	A
3-3.1	Test applicability	9.1.2	R+A	-	R	A	R	I/A*	A
3-3.1	Test planning	9.1.3	R+A	-	R	A	R	I	A
4	Prototype(s) selection	9.1.4	R+A	-	R	A	R	I	A
4.1	Prototype visual inspection	9.2.1	R+A	-	R	A	R	A**	I/A
5 – 5.1	Type A and Type B definitive documents	9.2.2	R+A	-	R	A	R	I	A
6-6.1	Tests	9.2.3	R	-	R	I	R	I	I
7	Review	9.3	R+A	-	R	A	R	I	A
7	TCA dossier	7.8	R+A		R	A	R	A	-
8-8.1-8.2	TCA Final attestation	7.9	I	R+A	I	R+A	I	R+A	-
R: responsible for doing the activity A: accountable for the approval of the activity									
C: consulted for support and contribution to the activity I: informed about the activity									
Note *: approval only in case of exception request									
Note **: ENEL has the right to renounce to its inspection									

Table 4 - Sequence of activities and responsibilities

In case of first-party and third-party systems, Enel reserves the right to verify all documentation.

10.2 Communication between Supplier and ENEL

Communications shall be done through the online system. If not available, the communications can be made by e-mail.

10.3 Notification

In case of TCA system S or T, all the activities, which may require trips of ENEL (e.g. tests), shall be communicated with sufficient advance, in particular:

- 14 working days for domestic and regional trips
- 21 working days for intercontinental trips

11. PRODUCTS MODIFICATIONS

All supplied samples shall be completely compliant with the product object of the TCA, considering the product identification criteria stated in 7.1.

If some mayor modifications are introduced by the Supplier (e.g. change of subpart Supplier, new materials, new dimensions, new fuctions etc.), a new TCA shall be requested. In such cases, the TCA procedure is the same as described in paragraph 10. The new TCA report shall report and highlight all the modifications introduced.

11.1 Management of the SW modifications

If the product involved in the TCA process includes a SW (Software) component, the certification of that component shall be managed according to the following criteria:

11.1.1. SW Modification with an impact in the HW (Hardware)

If the SW update requires a change in HW a new TCA shall be requested. In such cases, the TCA procedure is the same described in 10. In the TCA report, all modifications introduced shall be detailed.

11.1.2. Equipment SW update

In case of a SW update, having no impact on the HW of the product, the review and attestation functions will only be regarded as the SW.

Therefore, ENEL can agree on not updating the TCA final attestation of the product. In this case, in order to attest the conformity of the SW, a report containing the new version of the SW will be prepared and shared with the Supplier by letter or ordinary e-mail.

This report shall be attached to the last valid TCA final attestation of the product. In any case, the Supplier shall make available the last version of the SW.

11.1.3. Device FW & SW update

In the case of uploading a new TCA or a TCA update, the Supplier shall request approval from Enel before proceeding through the MLM portal.

In the case of uploading a new TCA, the Supplier shall upload to the MLM all Type A documentation for the detailed recognition of the device listed in Section 7.5.1.

In the case of a subsequent hardware update of an already type-approved device, the Supplier shall proceed with the opening of a new TCA on the MLM portal as indicated in Chapter 11.1.1 of this document.

On the other hand, in the case of software upgrades to an already type-approved device, such as firmware (FW), software (SW), kernels, and configurators, the certification process and the final TCA attestation shall be managed via the MLM portal in accordance with the criteria outlined below.

Released software versions shall be identified by a code of the type X. YY, where, the first level (X) indicates a substantial change in the software version, while the second level (YY) indicates minor changes such as bug fixes and/or minor evolutions.

In the case of a level X software update, it will be necessary to update the TCA. In the case of a level YY software update, however, it will be sufficient to upload the update documentation in the case of the current TCA.

TCA update documentation shall be uploaded for each product material code.

For each type of update hardware or software (e.g. FW/kernel/configurator) the Supplier shall upload the following type A documentation updated to MLM:

- List of type A (see 7.5.1) documentation
- Type A additional documentation:
    - Installation, configuration, operation and maintenance manuals
    - Software manual
    - Release Note (new features, bug fixes and malfunctions resolution, ecc)
    - Supplier's certification of the list of non-regression tests performed for every update
    - Supplier's certification of the list of ‘first user’ tests carried out
    - Comprehensive report of functional tests performed, covering hardware, measurement, protection, control, remote control functionalities, and application software

  - Compliance declaration related to Quality requirements for electronic components in accordance with GRI-GRI-SER-O&M-0006

- List of type B (see 7.5.2) documentation

The purpose of this approach is to ensure that the MLM system maintains full traceability of the evolution of both software and hardware components.

Supplier shall make all software versions available on its own repository with access via credentials reserved only for Enel.

Furthermore, as specified in section 7.5.1 – Type A documentation, all documents shall comply with ISO 9001 requirements. Accordingly, they shall be uniquely identified by:

- a unique identification name,
- a revision number and date of issue,
- a clear identification of the Supplier.

Uploaded files shall only be in .pdf o .zip format, and the file names of such documents shall contain the number of the software version released.

The documentation and software (e.g. operation, maintenance and installation manual, SW configurator manual, wiring diagrams, general dimensional drawings, nameplates and display text if present, etc.) shall be written in English and in the local language of the country of destination of the device to which the Enel material code refers and involved in the TCA process.

In the final phase of the TCA process, prior to the end of the TCA attestation, Enel reserves the right to repeat the integration tests of the device with the central remote control systems, in order to validate the conformity of the product to the technical requirements stated in the specification and already validated by the manufacturer in the TCA (e.g. repetition of ‘first user ’ tests).

The TCA will only be considered complete following the successful completion of the integration tests, after which Enel will notify the Supplier of the TCA certification for the device that has been tested.

12. SUSPENSIONS OF THE CONFORMITY ATTESTATION

According to 9.2. and 9.3 of ISO/IEC 17000, for each of the following conditions, the TCA conformity attestation may be suspended:

- Negative results of tests performed on the supplied products or during the production due to design errors or inaccuracies

- Faults or defects on installed products due to design errors or inaccuracies
- False or incorrect declarations or certifications

In case of suspension of the conformity attestation, ENEL will send a communication to the Supplier including the identification references of the TCA final attestation and specifying the reason for the suspension. For false/incorrect declarations, Enel also reserves the right to take the due contractual and/or legal actions.

When the conditions which led to suspension/ are resolved the TCA could be reactivate

- If the reactivation does not entail any change on TCA dossier, ENEL shall reactivate the TCA in MLM
- If the reactivation entails changes on TCA dossier, the Supplier shall open a new TCA process in MLM

In case of suspension of the TCA attestation of a product issued by one of Enel Group's distribution companies, suspension/ may be applied also by the other distribution companies.

13. MANAGEMENT OF TCA PROCESS IN MLM-TCA

13.1 MLM definitions

New TCA	Process of MLM by which the Supplier requests a TCA of a product for the first time
Update TCA	Process of MLM by which the Supplier can request an update of TCA dossier for a product that has previously obtained the TCA and already uploaded in MLM.
Confirm existing TCA	Process of MLM by which the Supplier can load the TCA Conformity document obtained for the product previously to the introduction of the MLM.
TCA request for tender	Application whereby a Supplier asks to start a process of TCA for the awarded components in a tender
TCA request spontaneous	Application whereby a Supplier can start a process of TCA for components not included in a tender.
TCA delay	Part of the total time exceeded over the contractual date to achieve the TCA dossier due to delays on the phases under responsibility of the Supplier

13.2 Flowcharts of TCA process in MLM-TCA

Based on the TCA system selected by the ENEL for the product object of the TCA process, and according to TCA type selected by the Supplier: new TCA, update or confirming a previous TCA of the product, the MLM app will guide the Supplier through the different phases of the process.

These phases and main activities are shown in tables 5 and 6.

TCA type	New TCA					
TCA system	First party		Second party		Third party	
Who	Supplier	TD	Supplier	TD	Supplier	TD
previous phase - "TCA cases opening" (only for components awarded in a tender - see 10.1.1.1)		upload TCA cases		upload TCA cases		upload TCA cases
Phase 1 – "TCA request starting"	Component Id		Component Id		Component Id	
Phase 1.1 – "Documents Upload and TCA request confirmation"	Upload laboratories & third bodies Acreditation				Upload Third body Acreditation	
Phase 2 – "TCA request approval"		Control & Approval		Control & Approval		Control & Approval
Phase 3 – "Preliminary Documents transmission"			Upload preliminary documents		Upload preliminary documents	
Phase 3.1 – "Preliminary Documents verification"				Control & Approval		
Phase 4 – "Call for prototype visual inspection"			Inform prototype date		Inform prototype date	
Phase 4.1 – "Prototype visual inspection approval"				Control & Approval		Control & Approval
Phase 5 – "Definitive type A documentation transmission"			Upload Type A documents		Upload Endorced documents by third body	
Phase 5.1 – "Definitive type A documentation approval"				Control & Approval		
Phase 6 – "Definitive test planning"			Upload definitve test planing		Upload definitve test planing	
Phase 6.1 – "Definitive test planning approval"				Control & Approval		
Phase 7 – "TCA dossier transmission"	Upload TCA dossier		Upload TCA dossier		Upload TCA dossier	
Phase 8 – "TCA dossier analisys"		Analisys		Analisys		Analisys
Phase 8.1 – "TCA dossier verification"		Verification		Verification		Verification
Phase 8.2 – "TCA Final Attestation"		Confirmation TCA dossier reception		statement of conformity		Acknowledgment of TCA

Table 5 – MLM phases and activities for New TCA

TCA type	TCA update		Confirm existing	
TCA system	1st, 2nd, 3rd party		1st, 2nd, 3rd party	
Who	Supplier	TD	Supplier	TD
Phase 1 – "TCA request starting"	Component Id		Component Id	
Phase 1.1 – "Documents Upload and TCA request confirmation"	Upload Third body Acreditation		Upload TCA Conformity Letter	
Phase 2 – "TCA request approval"		Control & Approval		Control & Approval
Phase 3 – "Preliminary Documents transmission"				
Phase 3.1 – "Preliminary Documents verification"				
Phase 4 – "Call for prototype visual inspection"				
Phase 4.1 – "Prototype visual inspection approval"				
Phase 5 – "Definitive type A documentation transmission"				
Phase 5.1 – "Definitive type A documentation approval"				
Phase 6 – "Definitive test planning"				
Phase 6.1 – "Definitive test planning approval"				
Phase 7 – "TCA dossier transmission"	Upload TCA dossier		Upload TCA dossier	
Phase 8 – "TCA dossier analisys"		Analisys		Analisys
Phase 8.1 – "TCA dossier verification"		Verification		Verification
Phase 8.2 – "TCA Final Attestation"		Acknowledgment of TCA		Acknowledgment of TCA

Table 6 – MLM phases and activities for Update and Confirmin TCA

13.3 Main activities

13.3.1. Phase 1 – "TCA request starting"

13.3.1.1. TCA request for a tender

After a tender is finished, ENEL shall open a TCA case in MLM for the products awarded by the Supplier in the tender. Later the Supplier will have access to the TCA case and will be able to fill the "TCA request starting" step with a set of information needed to start the TCA process.

- Contact information of Supplier Referent
- Supplier's codes of the products awarded
- Type of TCA: New TCA, Confirming existing or TCA update
- Planning of the main phases of TCA
- Confirming the TCA request

13.3.1.2. TCA request spontaneous

In this case, the Supplier asks to start a TCA process for products not related with any tenders by its own commercial interest, by means of a TCA request in MLM, in which following information shall be given:

- Enterprise and factory identification
- Contact information of Supplier's Referent
- Enel's codes and standards for the components to obtain TCA
- Supplier's codes for the products object of TCA
- TCA System
- Type of TCA: New TCA, Confirming existing or TCA update
- Forecast to main phases of TCA
- Confirming the TCA request

13.3.2. Phase 1.1 – "Documents Upload and TCA request confirmation"

According to point 7.4, in this phase the Supplier will have to upload in MLM the accreditation documents of the third bodies and laboratories in accordance with the system and type of TCA selected for the product as shown in the next table.

TCA System	Type of TCA	Description	Documents to Upload
First	**New TCA**	Laboratories and third bodies	1. List of accredited laboratories 2. List of accredited third bodies 3. Accreditation certificates with scope of laboratories and third-bodies.
First	**New TCA (family codes authorized)**	Laboratories	1. List of accredited supplier's laboratories 2. Accreditation of supplier's laboratories 3. ISO 9001 Certification referring to Supplier's self certified laboratory
Second	**New TCA**	None	None
Third	**New TCA/update TCA**	Accreditation certify	1. ISO/IEC 17065 accreditation certificate with scope for the specific product
Anyone	**Confirm existing**	TCA conformity letter	1. TCA conformity letter

Table 7 – Documents to be loaded in Phase 1.1

13.3.3. Phase 3 – "Preliminary Documents transmission" Only for TCA cases carried out under second or third TCA system.

In this phase the Supplier shall upload in MLM the "Type A preliminary document" of the product and fill the test applicability information for each test indicated in the Enel Standard, according to what specified in point 7.6.3 for the different applicability cases.

Test table has to be filled in the same order in which tests are listed in the Enel Standard, and furthermore each test has to be identified (field "Test Description") copying the point title in which the test is referenced in the Enel standard (example: "9.2.1.2 Measurement of winding resistance") (see ANNEX B)

	1st document	2nd document	3rd document
Product	Type A preliminary document* (*) For TCA carried out under Third party system, the preliminary Type A documentation shall include the test table endorsed by Third body.		

Test 1 ...	Test report	Applicability report (if any)	Laboratory Accreditation (if any)
Test 2 ...	Test report	Applicability report (if any)	Laboratory Accreditation (if any)
....			
Test n ...	Test report	Applicability report (if any)	Laboratory Accreditation (if any)

Table 8 - Documents type A documentation trasmission

13.3.4. Phase 5 - "Definitive type A documentation transmission"

Only for TCA cases carried out under second or third TCA system the Supplier shall upload in this MLM phase the "Type A definitive documents" in accordance with the table below:

TCA System	Documents to load
Second	Type A definitive document
Third	Type A definitive document endorsed by Third body

Table 9 – Documents to be loaded in Phase 5

13.3.5. Phase 6 – "Definitive test planning"

This definitive version of the test table has to be filled in the same order in which tests are listed in the Enel Standard, as mentioned in phase 3.

	1st document	2nd document	3rd document
Test 1 ...	Test report	Applicability report (if any)	Laboratory Accreditation

Test 2 ...	Test report	Applicability report (if any)	Laboratory Accreditation
....			
Test n ...	Test report	Applicability report (if any)	Laboratory Accreditation

Table 10 – Documents to loaded in Phase 6

13.3.6. Phase 7 – "TCA dossier transmission"

Overtaken the previous stages, in this phase the Supplier shall upload the whole TCA dossier composed by following documentation

Docs	First or Second party	Third party
Type A documentation	Yes	Yes, endorsed by the Third body
TCA report	Yes	Yes, all tests endorsed by the Third Body
Third body certificate	No	Yes
Manual	Yes	Yes
Declaration of conformity	Yes	Yes
Legal Declaration of conformity	Yes	Yes.

Table 11 – Documents to be loaded in Phase 7

13.3.7. Phase 8.2 – "TCA final attestation"

In this phase, the ENEL will send a communication by mail to the Supplier with the result of the TCA process detailing all the data referred to point 7.9 of the present document. The communication will include also a calculation of timings and delays to achieve the TCA based on dates registered in MLM for each phase and the contractual dates declared by Supplier for request, prototype and dossier.

14. ANNEXES

ANNEX A - TEST TABLE MODEL FOR TCA REPORT

ATTENTION: For TCA carried out under Second or Third system, the information has to be provided according to the test table filled in the phases 3 and 6 of MLM

#	Technical specification reference (clause #)	IEC (or other standards) reference (if applicable)	Test description	Test applicability*	Test report reference				Applicability report**		
					Name	Laboratory	Date	Name and revision of technical specification and/or standard referenced in the test report	Name	Rev.	Date
1											
2											
3											
4											
...											

* specify the "Case" of clause 7.6.3 applicable to this test
** not necessary for Case 1 and Case 2 of clause 7.6.3.

ANNEX B – TESTS TABLE EXAMPLE

Definitive Test Planning

DEFINITIVE TEST

TECHNICAL SPECIFICATION REFERENCE	IEC (OR OTHER STANDARDS) REFERENCE (IF APPLICABLE)	TEST DESCRIPTION	TEST APPLICABILITY	TEST REPORT	APPLICABILITY REPORT	LABORATORY ACCREDITATION CERTIFICATE	MORE INFORMATION
GSNN00X	IEC XXXX-X	6.1 DIELECTRIC TEST	CASE 4	Test report1.pdf	Applicability report1.pdf	Accreditation1.pdf	ⓘ
GSNN00X	IEC XXXX-X	6.2 BREAKING TEST	CASE 3	Test report2.pdf	Applicability report2.pdf	Accreditation2.pdf	ⓘ
GSNN00X	IEC XXXX-X	6.3 TEMPERATURE TEST	CASE 2	Test report3.pdf	none	Accreditation3.pdf	ⓘ

Technical Specification code: GRI-GRI-MAT-NE&D-0057

Version no. 4 dated 28/05/2026

Subject: GSCG002 Technical Conformity Assessment

Application Areas
Perimeter: *Global*
Staff Function: -
Service Function: -
Business Line: Enel Grids and Innovation

ANNEX C – SUPPLIER'S DECLARATION

Supplier's Declaration of Conformity according to ISO/IEC 17050-1 and ISO/IEC 17050-2

The product (Suppliers code - Enel code) manufactured by (Supplier name) in the factory (city, country), is fully compliant to the technical specification (name, date and revision).

The Technical Conformity Assessment has been carried out in compliance with the Enel Global Standard GSCG002, rev. 02 of xx/xx/2018 ("Technical Conformity Assessment").

This declaration is issued according to ISO/IEC 17050-1 and ISO/IEC 17050-2.

Date, place

Signed (a legal representative)

ANNEX D.1 – LEGAL DECLARATION OF CONFORMITY MODEL (*)

(*) for all countries except Spain

Legal declaration of conformity by the Supplier

The product (Suppliers code - Enel code) manufactured by (Supplier name) in the factory (city, country), is fully compliant with all applicable standards and laws in _____(please indicate the country of destination), including the following non exhaustive list:

……
……
……
(please include the list of standards and laws)

Date, place
Signed (a legal representative)

ANNEX D.2 – SPANISH LEGAL DECLARATION OF CONFORMITY MODEL

"Declaración de Conformidad" by Supplier

El producto _____(Suppliers code - Enel code) fabricado por _____(Supplier name), en la fábrica ubicada en _____(city, country), cumple con todas las normas y leyes aplicables en España, incluidas en la siguiente lista no exhaustiva:

- **RD 337/2014 de fecha 9 de mayo de 2014.** Reglamento sobre condiciones técnicas y garantías de seguridad en instalaciones eléctricas de alta tensión y sus Instrucciones Técnicas Complementarias ITC-RAT 01 a 23.

…
(include others standards and laws relevant)
…

- Todos los documentos y las normas que no figuran en esta declaración y que se recuerdan en la GSXXXXX _____(include edition and date of the Global Standard in forcé)
- GSCG002 _____(include edition and date of the Global Standard GSCG002 in force)

El primer año de comercialización del producto para España es el año 20XX

(In the case of Transformers, include:"Asimismo, este transformador cumple los requisitos exigidos en el **REGLAMENTO (UE) No 548/2014 DE LA COMISIÓN de 21 de mayo de 2014** por el que se desarrolla la Directiva 2009/125/CE del Parlamento Europeo y del Consejo en lo que respecta a los transformadores de potencia pequeños, medianos y grandes así como lo establecido en la **DIRECTIVA 2009/125/ CE: 21/10/2009**, directiva por la que se instaura un marco para el establecimiento de requisitos de diseño ecológico aplicables a los productos relacionados con la energía.")

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ANNEX E - LIST OF COMPONENTS NEEDED OF "DECLARACION DE CONFORMIDAD"

I	Ambito (Eng)	Famiglie (Eng)	Classi (Eng)	MG Code	MG Desc (English)
1	Building, civil and environmental	Construction components	Door and window fixtures (wood, plastic, glass and metal)	FCCC04	Various construction materials (skylights, sunbreakers, awnings etc.)
2	Building, civil and environmental	Insulation, deinsulation provvision of scaffolding	Realization of thermo / acoustic insulation	FCMI03	Other electrical insulation
3	Building, civil and environmental	Construction components	Prefabricated concrete structures	FCCC01	Cement prefabs (excluding cabins)
4	Electric, automation and networks	Electric cabins in concrete and non-concrete, and accessories	Electrical cabins accessories	FECE08	Cable press seals for installation of LV and MV cables
5	Electric, automation and networks	Electric cabins in concrete and non-concrete, and accessories	Electrical cabins accessories	FECE01	Prefabricated metallic M.V./L.V. cabins completed with all electrical equipment and connecting M.V. cables
6	Electric, automation and networks	Electrical panels	Prefabricated metal enclosed equipment for interruption, disconnection and operation of the medium voltage network.	FEQE06	Prefabricated metal enclosed equipment for interruption, disconnection and operation of the medium voltage network.
7	Electric, automation and networks	Electric cabins in concrete and non-concrete, and accessories	Secondary cabins in vibrated reinforced concrete with electrical equipment	FECE05	Structures in vibrated reinforced concrete for low cabins (box)
8	Electric, automation and networks	Electric cabins in concrete and non-concrete, and accessories	Secondary cabins in vibrated reinforced concrete with electrical equipment	FECE09	Secondary cabins in vibrated reinforced concrete with electrical equipment
9	Electric, automation and networks	Equipment, terminals and brackets for lines, stations and electrical substations	Pre-assembled terminals and connection wires	FEEM01	Wire terminals
10	Electric, automation and networks	Electric cables and bare electrical conductors	Cables LV	FECA03	LV cables insulated with elastomers up to 1kV
11	Electric, automation and networks	Electric cables and bare electrical conductors	Cables LV	FECA04	LV cables insulated with PVC
12	Electric, automation and networks	Electric cables and bare electrical conductors	Cables LV	FECA07	Normal thermoplastic LV cables
13	Electric, automation and networks	Electric cables and bare electrical conductors	Cables LV for electrical cabin	FECA05	LV cables insulated with fire retardant PVC
14	Electric, automation and networks	Switches	HV equipment and switches	FEIN02	HV switches (sf6)
15	Electric, automation and networks	Capacitors	Coupling and static capacitors	FECO02	Static condensers
16	Electric, automation and networks	Equipment, terminals and brackets for lines, stations and electrical substations	Cable connectors	FELC09	Connectors for underground cable
17	Electric, automation and networks	Equipment, terminals and brackets for lines, stations and electrical substations	Earthing and shorting devices	FEEM03	Other groundbeds
18	Electric, automation and networks	Equipment, terminals and brackets for lines, stations and electrical substations	Equipment and terminal blocks for stations / cabins / overhead electrical lines HV and / or MV	FEEM05	MV equipment and terminal boards for stations and cabins
19	Electric, automation and networks	Equipment, terminals and brackets for lines, stations and electrical substations	Equipment and terminal blocks for stations / cabins / overhead electrical lines HV and / or MV	FEEM08	HV equipment and terminal boards for stations and cabins
20	Electric, automation and networks	Equipment, terminals and brackets for lines, stations and electrical substations	Equipment and terminal blocks for stations / cabins / overhead electrical lines HV and / or MV	FECO01	Coupling condensers
21	Electric, automation and networks	Equipment, terminals and brackets for lines, stations and electrical substations	Equipment and terminal blocks for stations / cabins / overhead electrical lines HV and / or MV	FEEM13	Terminal board for earthing
22	Electric, automation and networks	Electrical and electronic small parts and fuses	Fuses and fuse protection devices	FEFU01	Fuses and protection equipment with LV fuse
23	Electric, automation and networks	Electrical and electronic small parts and fuses	Fuses and fuse protection devices	FEFU02	Fuses and protection equipment with MV fuse
24	Electric, automation and networks	Equipment, terminals and brackets for lines, stations and electrical substations	Joints and electronic terminals	FELC12	Joints and electronic terminals
25	Electric, automation and networks	Equipment, terminals and brackets for lines, stations and electrical substations	Joints and terminals for HV cables	FELC13	Joints and terminals for HV cables
26	Electric, automation and networks	Equipment, terminals and brackets for lines, stations and electrical substations	Joints and terminals for LV cables	FELC10	Joints and terminals for LV cables insulated in rubber
27	Electric, automation and networks	Equipment, terminals and brackets for lines, stations and electrical substations	Joints and terminals for MV cables	FELC11	Joints and terminals for MV cables in paper or extruded 12/36 kV
28	Electric, automation and networks	Switches	LV switches	FEIN11	Automatic LV switches for secondary cabins
29	Electric, automation and networks	Switches	LV switches	FEIN12	Automatic LV switches for measurement units
30	Electric, automation and networks	Switches	MV switches	FEIN17	Vacuum MV switches

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I	Ambito (Eng)	Famiglie (Eng)	Classi (Eng)	MG Code	MG Desc (English)
31	Electric, automation and networks	Isolators	Composite insulators	FEIT01	Modular type HV and/or MV insulators for overhead lines
32	Electric, automation and networks	Isolators	Composite insulators	FEIT03	HV and/or MV glass insulators
33	Electric, automation and networks	Isolators	Glass and porcelain insulators	FEIT11	Feed-through insulators (MV) in porcelain for primary cabin panels
34	Electric, automation and networks	Materials and equipment for user connection	Manufactured items of synthetic resin	FEAT01	Manufactured items of synthetic resin
35	Electric, automation and networks	Electrical and electronic small parts and fuses	Low power electrical, electromechanical and electronic materials	FERP10	Auxiliary relays
36	Electric, automation and networks	protection devices	Protection and control panels	FERP03	Protection and control panels
37	Electric, automation and networks	Electrical panels	LV Panels	FEQE13	LV panels for secondary cabins
38	Electric, automation and networks	Electrical panels	MV panels	FEQE24	MV compartments for primary cabins
39	Electric, automation and networks	dischargers	Metallic oxide HV and/or MT dischargers	FESC01	Metallic oxide HV and/or MT dischargers
40	Electric, automation and networks	dischargers	Metallic oxide HV and/or MT dischargers	FESC06	LV dischargers
41	Electric, automation and networks	disconnectors	HV disconnectors and spare parts	FESE03	145 - 170 kV HV disconnectors for primary cabins
42	Electric, automation and networks	disconnectors	HV disconnectors and spare parts	FESE05	HV disconnectors - spare parts
43	Electric, automation and networks	disconnectors	HV disconnectors and spare parts	FESE02	MV control-disconnectors
44	Electric, automation and networks	disconnectors	HV disconnectors and spare parts	FESE01	Non-automatic LV control equipment
45	Electric, automation and networks	disconnectors	MV disconnectors	FESE07	MV overhead disconnectors for outdoors
46	Electric, automation and networks	disconnectors	MV disconnectors	FESE08	MV overhead disconnectors, (motorised and not) for indoors
47	Electric, automation and networks	Electrical panels	Power supply systems for auxiliary services	FEQE27	Power supply systems for auxiliary services
48	Electric, automation and networks	Electrical panels	Power supply systems for auxiliary services	FEQE21	Rectifiers
49	Electric, automation and networks	Electrical panels	Power supply systems for auxiliary services	FEQE14	AC and DC LV panels for auxiliary services
50	Electric, automation and networks	Electrical panels	Power supply systems for auxiliary services	FEQE02	Stabilised power supplies
51	Electric, automation and networks	Storage Systems, Batteries, Accumulators	Storage Systems, Batteries, Accumulators	FEAP01	Lead and sealed accumulators
52	Electric, automation and networks	Storage Systems, Batteries, Accumulators	Storage Systems, Batteries, Accumulators	FEAP03	Rechargeable secondary batteries for stationary applications, auxiliaries included.
53	Electric, automation and networks	Supports and poles	Pylon steel supports	FESO32	Tubular steel supports for stations
54	Electric, automation and networks	Construction of HV stations and electrical substations	Complete electrical stations and cabins (civil and electrical works)	FEST01	Prefab primary cabins (HT/MT) with electrical equipment
55	Electric, automation and networks	Construction of HV stations and electrical substations	Complete electrical stations and cabins (civil and electrical works)	FEST05	420kV, 245kV and 145kV electrical high voltage stations
56	Electric, automation and networks	Measuring Transformers	CT, TT and ACCESSORIES for MV meters	FETM23	MV voltage and current transformers for primary cabins
57	Electric, automation and networks	Measuring Transformers	CT, TT and ACCESSORIES for MV meters	FETM22	LV current transformers
58	Electric, automation and networks	transformers	HV / MV transformers	FETR05	HV/MV TRANSFORMERS FOR PRIMARY SUB-STATIONS AND FOR GENERATION PLANT (HV/MV AND MV/MV) RATED POWER MAX 300MVA /220kV
59	Electric, automation and networks	transformers	HV / MV transformers	FETR13	LV/LV transformers and autotransformers
60	Electric, automation and networks	transformers	HV / MV transformers	FETR14	Other MV/LV transformers and autotransformers
61	Electric, automation and networks	transformers	HV / MV transformers	FETR17	MV/MV transformers and autotransformers in oil
62	Electric, automation and networks	Measuring Transformers	Current and voltage transformers HV	FETM25	HT measurement transformers (ta and tvc)
63	Electric, automation and networks	transformers	Oil and resin MV / LV transformers and autotransformers	FETR04	Equipment for earthing the neutral of MV distribution networks (Petersen coils)
64	Electric, automation and networks	transformers	Oil and resin MV / LV transformers and autotransformers	FETR15	MV/LV transformers and autotransformers in oil
65	IT and Telecommunications	Teleoperation, Remote Control and Remote Management Equipment	Equipment for secondary cabin remote control	FTTE05	Equipment for secondary cabin remote control