

Allegato 1 al Certificato di accreditamento n° 070B Rev. 05
Enclosure 1 to the accreditation Certificate n° Rev.

rilasciato a / issued to: **ACAE**

Certificazione di prodotti nei seguenti settori:

- Apparecchiature e componenti elettrici di bassa e alta tensione
(Vedere l'Allegato al Certificato).

Certification of products within the following sectors:

- *low and medium voltage electrical products*
(see Enclosure to the Certificate).

L'accreditamento per i settori elencati nel presente Allegato è valido fino a tutto il 2011 -05 -20
The accreditation for the sectors listed in this Enclosure is valid until 2011 -05 -20

Il Direttore Tecnico
The Technical Director

Il Presidente
The President

Il Direttore Generale
The General Director

Milano, 2009 -06 -18

Allegato 2 al Certificato di accreditamento n° 070B Rev. 05

Enclosure 2 to the accreditation Certificate n° Rev.

rilasciato a / issued to: **ACAE**

Aggiornato in data: 2009 -06 -18

LOW AND HIGH VOLTAGE PRODUCTS - LIST OF IEC - EN - CEI STANDARDS ELENCO NORME IEC - EN - CEI PER PRODOTTI DI BASSA E ALTA TENSIONE

TC 11 Overhead lines

CT 11 Impianti elettrici ad alta tensione e di distribuzione pubblica di bassa tensione
61284 Requirements and tests for fittings

TC 14 Power transformers

CT 14 Trasformatori

60076-1 Power transformers - Part 1: General
50464-1 Three phase oil immersed distribution transformers 50 Hz up to 36 kV from 50 kVA to 2500 kVA

TC 17 Switchgear and controlgear

CT 17 Grossa apparecchiatura

60947-1 Low voltage switchgear and controlgear - Part 1: General rules
60947-2 Low voltage switchgear and controlgear - Part 2: Circuit breakers
60947-3 Low voltage switchgear and controlgear - Part 3: Switch disconnectors, switch disconnectors and Fuse-combination units
60947-4-1 Low voltage switchgear and controlgear - Part 4: Contactors and motor-starters-Section 1- Elettrotechnical contactors and motor-starters
60947-4-2 Low voltage switchgear and controlgear - Part 4: Contactors and motor-starters-Section 2- AC semiconductor motor controllers and starters
60947-4-3 Low voltage switchgear and controlgear - Part 4-3: AC semiconductor starters for non-motor loads
60947-5-1 Low voltage switchgear and controlgear - Part 5: Control circuit devices and switching elements - Section 1-Elettromechanical control circuit devices
60947-5-2 Low voltage switchgear and controlgear - Part 5-2: Control circuit devices and switching elements - Proximity switches
60947-5-3 Low voltage switchgear and controlgear - Part 5-3: Control circuit devices and switching elements - Requirements for proximity devices with defined behaviour under fault conditions
60947-5-5 Low voltage switchgear and controlgear - Part 5-5: Control circuit devices and switching devices -Electrical emergency stop device with mechanical latching function
60947-6-1 Low voltage switchgear and controlgear - Part 6-1: Multiple function equipment-Section 1: Automatic transfer switching equipment
60947-6-2 Low voltage switchgear and controlgear - Part 6-2: Multiple function equipment-Section 2: Control and protective switching device(CPS)
60947-7-1 Low voltage switchgear and controlgear - Part 7-1: Ancillary equipment-Section 1:Terminal blocks or copper conductors
60947-7-2 Low voltage switchgear and controlgear - Part 7-2: Ancillary equipment-Section 2::Protective conductor terminal blocks for copper conductors
60947-7-3 Low voltage switchgear and controlgear - Part 7-3: Ancillary equipment-Section 7-3:Safety Requirements for fuse terminal blocks
60439-1 Low-voltage switchgear and controlgear assemblies-Part 1:Type- tested and partially type- tested assemblies
60439-2 Low-voltage switchgear and controlgear assemblies-Part 2:Particular requirements for busbar trunking systems (busway)
60439-3 Low-voltage switchgear and controlgear assemblies-Part 3:Particular requirements for low-voltage switchgear and controlgear assemblies intended to be installed in places where unskilled persons have access for their use-Distribution boards.
60439-4 Low-voltage switchgear and controlgear assemblies.Part 4:Particular requirements for assemblies for construction sites (ACS)
60439-5 Low-voltage switchgear and controlgear assemblies.Part 5:Particular requirements for assemblies intended to be installed outdoors in public places-Cabledistribution cabinets(CDCs)for power Distribution in networks.
62208 Empty enclosures for low-voltage switchgear and controlgear-General requirements
61095 Elettromechanical contactors for household and similar purposes

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- 62271-100 High-voltage alternating current circuit-breakers
- 62271-102 High-voltage alternating current disconnectors and hearing switches
- 60271-103 High-voltage switches for rated voltage above 1 kV and less than 52 kV
- 62271-104 High-voltage switches for rated voltage of 52 kV and above
- 62271-105 High-voltage alternating current switch-fuse combinations
- 62271-106 High-voltage alternating current contactors and contactor based motor-starters
- 62271-200 Metal enclosed switchgear and controlgear for rated voltages up to and including 36 kV
- 62271-202 High-voltage/low voltage prefabricated substations
- 62271-203 Gas-insulated metal enclosed switchgear for rated voltages above 52 kV

TC 23 Electrical accessories

CT 23 Apparecchiatura a bassa tensione

- 60898 Electrical accessories-Circuit-breakers for overcurrent protection for household and similar installations Part 1:Circuit-breakers for a.c. operation
- 60309-1 Plug,socket-outlets and couplers for industrial purposes - Part 1: General requirements
- 60309-2 Plug,socket-outlets and couplers for industrial purposes - Part 2: Dimensional interchangeability requirements for top pin and contact-tube accessories.
- 60309-3 Plug,socket-outlets and couplers for industrial purposes - Part 3: Particular requirements for plug, socket-outlets,connectors and appliance inlets for use in explosive gas atmospheres
- 61008-1 Residual current operated circuit-breakers without integral overcurrent protection for household and similar use (RCCB's) -Part 1: General rules
- 61008-2-1 Residual current operated circuit-breakers without integral overcurrent protection for household similar use (RCCB's) - Part 2-1: Applicability of the general rules to RCCB's functionally independent of line voltage
- 61008-2-2 Residual current operated circuit-breakers without integral overcurrent protection for household and similar use (RCCB's) - Part 2-2:Applicability of the general rules to RCCB's functionally dependent of line voltage
- 61009-1 Residual current operated circuit-breakers with integral overcurrent protection for household and similar use (RCBO's) - Part 1: General rules
- 61009-2-1 Residual current operated circuit-breakers with integral overcurrent protection for household and similar use (RCBO's) - Part 2-1: Applicability of general rules to RCBO's functionally independent of line voltage
- 61009-2-2 Residual current operated circuit-breakers with integral overcurrent protection for household and similar use (RCBO's) - Part 2-2: Applicability of general rules to RCBO's functionally dependent of line voltage
- 62019 Electrical accessories circuit-breakers and similar equipment for household use - Auxiliary contact units
- 50085-1 Cable trunking systems and cable ducting systems for electrical installation: General requirements
- 50086-1 Conduit systems for cable management - Part 1:General requirements
- 50086-2-1 Conduit systems for cable management - Part 2-1: Particular requirements for rigid conduits systems
- 50086-2-2 Conduit systems for cable management - Part 2-2: Particular requirements for pliable conduits systems
- 50086-2-3 Conduit systems for cable management - Part 2-3: Particular requirements for flexible conduit systems
- 50086-2-4 Conduit systems for cable management - Part 2-4: Particular requirements for conduit systems buried underground
- 60669-1 Switches for household and similar fixed-electrical installations - Part 1: General requirements
- 60669-2-1 Switches for household and similar fixed-electrical installations - Part 2: Electronic switches
- 60755 General requirements for residual current operated protective devices

TC 32 Fuses

CT 32 Fusibili

- 60282-1 High-voltage fuses-Part 1: Current-limiting fuses
- 60282-2 High-voltage fuses-Part 2: Expulsion fuses
- 60269-1 Low-voltage fuses - Part 1: General requirements
- 60269-2 Low-voltage fuses - Part 2: Supplementary requirements for fuses for use by authorized persons
- 60269-3 Low-voltage fuses - Part 3: Supplementary requirements for fuses for use by unskilled persons
- 60269-4 Low-voltage fuses - Part 4: Supplementary requirements for fuse-links for the protection of semiconductor devices
- 60644 Specification for high-voltage fuse-links for motor circuit applications

TC 33 Power capacitor

CT 33 Condensatori

- 60358 Coupling capacitors and capacitor dividers

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TC 36 Insulator**CT 36 Isolatori**

- 50180 Bushings above 1kV up to 36kV and from 250A up to 3150A for liquid filled transformer
- 50181 Bushings above 1kV up to 36kV and from 250A to 1250A for equipment other than liquid filled transformers
- 50243 Outdoor bushings for 24kV and 36kV ,5kA and 8kA for liquid filled transformers
- 50386 Bushings up to 1 kV and from 250A up to 5000A for liquid filled transformers
- 50387 Busbar bushings up to 1kV and from 1,25kA to 5kA for liquid filled transformers
- 60137 Insulated bushings for alternating voltages above 1kV
- 60168 Tests on indoor and outdoor post insulators of ceramic material or glass for systems with nominal voltage greater than 1000 V

TC 37 Surge arresters**CT 37 Scaricatori**

- 60099-4 Metal oxide surge arresters without gaps for a.c. systems

TC 38 Instruments transformers**CT 38 Trasformatori di misura**

- 60044-1 Instruments transformers - Part 1: Current transformers
- 60044-2 Instruments transformers - Part 2: Inductive voltage transformers
- 60044-3 Instruments transformers - Part 3: Combined transformers
- 60044-5 Instruments transformers - Part 5: Capacitor voltage transformers
- 60044-6 Instruments transformers - Part 6: Requirements for protective current transformers for transient performance
- 60044-7 Instruments transformers - Part 7: Electronic voltage transformers
- 60044-8 Instruments transformers - Part 8: Electronic current transformers

TC 65 Industrial-process measurement and control**CT 65 Controllo e misura dei processi industriali**

- 61131-1 Programmable controllers – Part 1: General informations
- 61131-2 Programmable controllers – Part 2: Equipment requirements and tests

TC 70 Degree of protection by enclosures**CT 70 Involucri di protezione**

- 60529 Degree of protection provided by enclosures (IP Code)

TC 95 Measuring relays and protection equipment**CT 95 Relè di misura e dispositivi di protezione**

- 60255-6 Electrical relays – Part6: Measuring relays and protection equipment

TC 96 Small transformers, reactors and power supply units and special transformers, reactors and power supply units: safety requirements**CT 96 Trasformatori di sicurezza ed isolamento**

- 61558-1 Safety of power transformers, power supply units and similar – Part 1: General requirements and tests

TC 104 Environmental condition, classification and methods of test**CT 104 Condizioni ambientali. Classificazioni e metodi di prova**

- 60068-2-6 Environmental testing – Part 2: Test FC Vibration (sinusoidal)

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