

ACCREDIA

L'ENTE ITALIANO DI ACCREDITAMENTO

Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC
Signatory of EA, IAF and ILAC Mutual Recognition Agreements

License Number 024

CERTIFICATO DI ACCREDITAMENTO

Accreditation Certificate

Registrazione n°
Registration n°**070B** Rev. **08**Si dichiara che
We declare that**ACAE**

Via Tito Livio, 5 24123 - BERGAMO (BG) - Italia

è conforme ai requisiti
della norma

UNI CEI EN 45011 Ed. 1999

meets the requirements
of the standard

EN 45011 Ed. 1998

quale Organismo di

Certificazione di prodotti/servizi
(così come dettagliato negli Allegati al presente Certificato)

as Body for the

Certification of products/services
(as stated in the Enclosures to this Certificate)

Il presente Certificato non è da ritenersi valido se non accompagnato dai relativi Allegati e può essere sospeso o revocato in qualsiasi momento nel caso di inadempienza accertata da parte di ACCREDIA. La vigenza dell'accREDITAMENTO può essere verificata sul sito WEB (www.accredia.it) o richiesta direttamente al Dipartimento di competenza.

This Certificate is not valid without the relative Enclosures and can be suspended or withdrawn at any time in the event of non fulfilment as ascertained by ACCREDIA. Confirmation of the validity of accreditation can be verify on website (www.accredia.it) or by contacting the relevant Department.

Data di 1^a emissione
1st issue date
2003 -05 -21Data di modifica
Modification date
2011 -11 -08Data di Scadenza
Expiring date
2015 -05 -20
Il Direttore di Dipartimento
The Department Director
Il Presidente
The President
Il Direttore Generale
The General Director

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License Number 024

Allegato 1 al Certificato di accreditamento n° 070B Rev. 08

Enclosure 1 to the accreditation Certificate n° 070B Rev. 08

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).

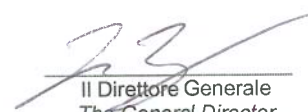
L'accreditamento per i settori elencati nel presente Allegato è valido fino a tutto il 2015 -05 -20
The accreditation for the sectors listed in this Enclosure is valid until 2015 -05 -20



Il Direttore di Dipartimento
The Department Director



Il Presidente
The President



Il Direttore Generale
The General Director

Milano, 2011 -11 -08

Allegato 2 al Certificato di accreditamento n° 070B Rev. 08 Enclosure 2 to the accreditation Certificate n° 070B Rev. 08

rilasciato a / issued to: **ACAE**

Aggiornato in data: 2011 -11 -08

**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
- 61219 Earthing or earthing and short-circuiting equipment using lances as a short-circuiting device
- 61230 Portable equipment for earthing or earthing and short-circuiting
- 61235 Insulating hollow tubes for electrical purposes
- 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

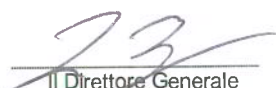
CT 17 Grossa apparecchiatura

- 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)

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- 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 Elettromeccanici contattori per uso domestico e simili
- 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

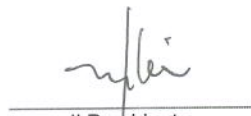
CT 32 Fusibili

- 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

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- 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

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
273 Characteristics of indoor and outdoor post insulators for systems with nominal voltages 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 78 Live working

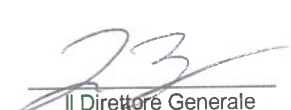
CT 78 Lavori elettrici sotto tensione

- 60832-1 Insulating sticks and attachable devices – Part 1: Insulating sticks
60832-2 Insulating sticks and attachable devices – Part 2: Attachable devices
60855 Insulating foam-filled tubes and solid rods - Part 1: Tubes and rods of a circular cross-section
60984 Sleeves of insulating material for live working
61111 Electrical insulating matting
61219 Earthing or earthing and short-circuit equipment using lances as a short-circuiting device Lance earthing
61230 Portable equipment for earthing or earthing and short-circuiting

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61235 Insulating hollow tubes for electrical purposes
61243-1 Voltage detectors – Part 1: Capacitive type to be used for voltages exceeding
61243-5 Voltage detectors – Part 5: Voltage detecting systems (VDS)

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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