

CERTIFICATE OF ACCREDITATION

This is to attest

GCC ELECTRICAL POWER LAB CO.

3RD INDUSTRIAL CITY, MODON 3 DAMMAM, 39558 SAUDI ARABIA

Testing Laboratory TL-1165

has met the requirements of AC89, *IAS Accreditation Criteria for Testing Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories*. This organization is accredited to provide the services specified in the scope of accreditation.

Effective Date September 16, 2025



International Accreditation Service
Issued under the authority of IAS management

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Accredited to ISO/IEC 17025:2017

Effective Date September 16, 2025

Cables Systems, Ca	bles and Accessories
ICEA S-108-720	Extruded Insulation Power Cables Rated Above 46 Through 500 KV AC
	only sections:
	9.8 Volume Resistivity
	10.2 Cable qualification tests
	10.3.1 Polyethylene Jackets
	10.3.3 Polyethylene Chloride
	10.4.3 Resistance Stability Test
	10.5 Qualification tests on cable system
IEC 60227-3	Polyvinyl chloride insulated cables of rated voltages up to and including
	450/750 V – Part 3: Non-sheathed cables for fixed wiring. (for reference of
	IEC 60227-1 and IEC 63294 standard)
IEC 60227-4	Polyvinyl chloride insulated cables of rated voltages up to and including
	450/750 V - Part 4: Sheathed cables for fixed wiring. (for reference of IEC
.=	60227-1 and IEC 63294 standard)
IEC 60227-5	Polyvinyl Chloride Insulated Cables of Rated Voltages Up to And Including
	450/750 V – Part 5: Flexible cables (cords) (for reference of IEC 60227-1
150 00500 4	and IEC 63294 standard)
IEC 60502-1	Power cables with extruded insulation and their accessories for rated voltages
	from 1 kV (Um = 1,2 kV) up to 30 kV (Um = 36 kV) – Part 1: Cables for rated
	voltages of 1 kV (Um = 1,2 kV) and 3 kV (Um = 3,6 kV)
	Clause 16 Sample tests
	Clause 17 Type tests, electrical
	Clause 18 Type tests, non-electrical (except clauses 18.15, 18.22, in clause 18.9 exclude IEC 60811-504, IEC 60811-506 test methods)
IEC 60502-2	Power cables with extruded insulation and their accessories for rated voltages
IEC 00302-2	from 1 kV (Um = 1,2 kV) up to 30 kV (Um = 36 kV) – Part 2: Cables for rated
	voltages from 6 kV (Um = 7,2 kV) up to 30 kV (Um = 36 kV)
	Clause 17 Sample tests
	Clause 18 Type tests, electrical
	Clause 19 Type tests, non-electrical (except clauses 19.16, 19.19, 19.20)
IEC 60502-4	Power cables with extruded insulation and their accessories for rated volt-
	ages from 1 kV (Um = 1,2 kV) up to 30 kV (Um = 36 kV) – Part 4: Test re-
	guirements on accessories for cables with rated voltages from 6 kV (Um =
	7,2 kV) up to 30 kV (Um = 36 kV) (only for reference for IEC 61442 stand-
	ard)
IEC 60840	Power cables with extruded insulation and their accessories for rated voltages
	above 30 kV (Um = 36 kV) up to 150 kV (Um = 170 kV) – Test methods and
	requirements



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	Clause 12 Type tests on cable systems (exclude clause 12.5.8 to exclude only
	IEC 60811-504, IEC 60811-506 test methods, 12.5.14, 12.5.19)
	Clause 13 Prequalification test of the cable system.
	Clause 14 Type tests on cables
	Clause 15 Type tests on accessories
	Annex H Additional tests for accessories (exclude clause H.6)
IEC 61442	Test methods for accessories for power cables with rated voltages from 6
	kV (Um = 7,2 kV) up to 30 kV (Um = 36 kV)
	Clauses:
	5 AC Voltage Test
	6 DC Voltage Test
	7 Impulse Voltage Test
	8 Partial Discharge Test
	9.Tests at elevated temperature
	10 Heating Cycle at air
	15 Impact test at ambient temperature
	16 Screen resistance measurement
	17 Screen leakage current measurement
	19 Operating force test
	20 Operating eye test
	21 Capacitive test point performance
IEC 62067	Power cables with extruded insulation and their accessories for rated voltages
	above 150 kV (Um = 170 kV) up to 500 kV (Um = 550 kV) – Test methods and
	requirements
	Clause 12 Type tests on cable systems (except clause 12.5.8 to exclude only IEC
	60811-504, IEC 60811-506 test methods, 12.5.14)
	Clause 13 Prequalification test of the cable system
	Clause 14 - Type test on cables.
	Clause 15 - Type test on accessories.
	Annex H Additional tests for accessories (exclude clauses H.6) H.5.1.2 Internal Pressure test
	H.5.1.3 Cantilever load withstand test
	H.5.2.2 Internal Pressure test
	H.5.2.3 Bending Test
HD 629-1-S3	Test requirements for accessories for use on power cables of rated voltage from
	3,6/6(7,2) kV up to 20,8/36(42) kV - Part 1: Accessories for cables with extruded
	insulation
	Inclusion refer to EN 61442 Clauses:
	4 AC Voltage Test
	5 DC Voltage Test
	6 Impulse voltage test
	7 Partial Discharge Test
	8 Tests at elevated temperature
	9 Heating cycles voltage test
	14 Impact test at ambient temperature
	15 Screen resistance measurement
	16 Screen leakage current measurement
	18 Operating force test
	19 Operating eye test
	20 Capacitive test point performance



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IFO 04000 4 0	Opening and markening connection from the Dett 4.0. To 4
IEC 61238-1-3	Compression and mechanical connectors for power cables - Part 1-3: Test
	methods and requirements for compression and mechanical connectors for power
	cables for rated voltages above 1 kV (Um = 1,2 kV) up to 30 kV (Um = 36 kV)
	tested on non-insulated conductors, clauses:
	6.2.2 Electrical resistance measurements
	6.3 Heat cycling test
0	7 Mechanical test
Overhead Conducto	
ASTM B230	Standard Specification for Aluminum 1350–H19 Wire for Electrical Purposes
ASTM B231	Standard Specification for Concentric-Lay-Stranded Aluminum 1350 Conductors
ASTM B232	Standard Specification for Concentric-Lay-Stranded Aluminum Conductors, Coated- Steel Reinforced (ACSR)
ASTM B399	Standard Specification for Concentric-Lay-Stranded Aluminum-Alloy 6201-
	T81 and
	6201-T83 Conductors
ASTM B502	Standard Specification for Aluminum-Clad Steel Core Wire for Use in Over-
	head
	Electrical Aluminum Conductors
	Except clause 13. Torsion Test
ASTM B549	Standard Specification for Concentric-Lay-Stranded Aluminum Conductors, Alu-
	minum- Clad Steel Reinforced for Use in Overhead Electrical Conductors
EN 50189	Conductors for overhead lines - Zinc coated steel wires.
	Except 11.5.2 Torsion test
IEC 61089	Round wire concentric lay overhead electrical stranded conductors
	All clauses except:
	Annex B Stress-Strain test
IEC 62641	Conductors for overhead lines – Aluminium and aluminium alloy wires for con-
	centric lay stranded conductors
IEC 63248	Conductors for overhead lines – Coated or cladded metallic wire for concen-
	tric lay stranded conductors.
	Except subclauses:
	7.4.4.1 torsion, 7.4.4.3 Reverse bend, 7.4.6 Linear Expansion
Switch Gears and C	Control Gears
IEC 60947-1	Low-voltage switchgear and controlgear – Part 1: General rules
	(only clauses 8.1.2, 9.2.2.1 Glow wire testing, 9.3.3.4.1 Dielectric properties-
	Type tests No.3,4, Annex M Hot wire, Arc ignition and Annex Q - Tests for
	environmental categories A, B, C)
	Subclauses:
	6.2 Marking,
	8.1.4, 8.2.3.4 and 8.2.3.5 Verification of clearance and creepage distances
	8.1.12 Degrees of protection of enclosed equipment (IP coding)-Annex C
	8.2.2, 9.3.3.3 Temperature rise test.
	8.2.3.2 Impulse withstand voltage.
	8.2.3.3 Power frequency test
	annex Q Resistance to corrosion- damp heat cycling test (Db
IEC 60947-2	Low-voltage switchgear and controlgear – Part 2: Circuit-breakers
000011	5.2 Marking
	Refer to IEC 60947-1 for below subclauses:
	8.1.4, 8.2.3.4 and 8.2.3.5 Verification of Clearances and Creepage distances
	8.1.12 Verification of the IP coding
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	8.2.2 Temperature-rise tests
	8.2.3.2 Impulse withstand voltage.
	8.2.3.3 Power-frequency withstand voltage.
IEC 60947-3	Low-voltage switchgear and controlgear – Part 3: Switches, disconnectors,
	switch-disconnectors and fuse-combination units
	6.2 Marking
	Refer to IEC 60947-1 for below subclauses:
	8.1.2.2 Resistance to abnormal heat and fire due to internal electric effects
	(glow-wire test)
	8.1.4 Verification of Clearances and Creepage distances
	8.1.12 Verification of the IP coding
	8.2.3.3 Power-frequency withstand voltage.
	8.2.3.2 Impulse withstand voltage.
150.04400.4	8.2.2 Temperature-rise tests
IEC 61439-1	Low-voltage switchgear and controlgear assemblies - Part 1: General rules
	Subclauses:
	10.2.3.2 resistance to abnormal heat and fire glow wire
	10.2.4 Resistance to ultra-violet (UV) radiation
	10.2.5 Lifting
	10.2.7 Marking
	10.2.8 mechanical Operation
	8.3,10.4, Annex F Verification of Clearances and Creepage distances
	8.2.1, 10.2.6 Verification of the IK coding
	8.2.2, 10.3 Verification of the IP coding
	10.9.2 power frequency withstand voltage
	10.9.3, Annex G Impulse withstand voltage
	10.10, Annex L Temperature-rise tests
	10.2.2 Resistance to corrosion- damp heat cycling test (Db)
	10.2.2 Resistance to corrosion- salt mist test (Ka)
	10.2.3.1 Thermal stability (dry heat test)
IEC 61439-2	
IEC 01439-2	Low-voltage switchgear and controlgear assemblies – Part 2: Power switchgear
	and controlgear assemblies
	Refer to IEC 61439-1 for below clauses subclauses:
	10.2.3.2 Resistance to abnormal heat and fire glow wire
	10.2.4 Resistance to ultra-violet (UV) radiation
	10.2.5 Lifting
	10.2.7 Marking
	10.2.8 mechanical Operation
	10.4 Verification of Clearances and Creepage distances
	10.2.6 Verification of the IK coding
	10.3 Verification of the IP coding
	10.9.2 power frequency withstand voltage
	10.9.3, Annex G Impulse withstand voltage.
	10.10 Temperature-rise tests
	10.2.2 Resistance to corrosion- damp heat cycling test (Db)
	10.2.2 Resistance to corrosion- salt mist test (Ka)
IEO 64420 0	10.2.3.1 Thermal stability (dry heat test)
IEC 61439-3	Low-voltage switchgear and controlgear assemblies - Part 3: Distribution boards
	intended to be operated by ordinary persons (DBO)
	Refer to IEC 61439-1 for below clauses subclauses:
	10.2.3.2 resistance to abnormal heat and fire glow wire



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	10.2.4 Resistance to ultra-violet (UV) radiation
	10.2.5 Lifting
	10.2.7 Marking
	10.13 Mechanical Operation refer to IEC 61439-1 clause 10.2.8.
	Verification of Clearances and Creepage distances refer to IEC 61439-1 sub-
	clause 8.3,10.4, Annex F
	10.2.6 Verification of the IK coding
	10.3 Verification of the IP coding
	10.9.2 power frequency withstand voltage
	10.9.3, Annex G Impulse withstand voltage.
	10.10 Temperature-rise tests
	10.2.2 Resistance to corrosion- damp heat cycling test (Db)
	10.2.2 Resistance to corrosion- salt mist test (Ka)
	10.2.3.1 Thermal stability (dry heat test)
IEC 61439-4	Low-voltage switchgear and controlgear assemblies –
	Part 4: Particular requirements for assemblies for construction sites (ACS)
	Refer to IEC 61439-1 for below clauses subclauses:
	10.2.3.2 Resistance to abnormal heat and fire due to internal electric effects
	(glow-wire test)
	10.2.4 Resistance to ultra-violet (UV) radiation
	10.2.5 Lifting
	10.2.7 Marking
	10.2.8 Mechanical operation tests
	10.4 Verification of Clearances and Creepage distances
	10.2.6 Verification of the IK coding
	10.3 Verification of the IP coding
	10.9.2 Power-frequency withstand voltage
	10.9.3 Impulse withstand voltage
	10.10 Temperature-rise tests
	10.2.2 Resistance to corrosion- damp heat cycling test (Db)
	10.2.2 Resistance to corrosion- salt mist test (Ka)
	10.2.3.1 Thermal stability (dry heat test)
IEC 61439-5	Low-voltage switchgear and controlgear assemblies –
	Part 5: Assemblies for power distribution in public networks
	Refer to IEC 61439-1 for below clauses subclauses:
	10.2.3.2 Resistance to abnormal heat and fire due to internal electric effects
	(glow-wire test)
	10.2.4 Resistance to ultra-violet (UV) radiation
	10.2.5 Lifting
	10.2.7 Marking
	10.2.8 Mechanical operation tests
	10.4 Verification of Clearances and Creepage distances
	10.2.6 Verification of the IK coding
	10.3 Verification of the IP coding
	10.9.2 Power-frequency withstand voltage
	10.9.3 Impulse withstand voltage
	10.10 Temperature-rise tests
	10.2.2 Resistance to corrosion- damp heat cycling test (Db)
	10.2.2 Resistance to corrosion- damp heat cycling test (Db)
IEC 64400 C	10.2.3.1 Thermal stability (dry heat test)
IEC 61439-6	Low-voltage switchgear and controlgear assemblies –



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	Part 6: Busbar trunking systems (busways)
	Refer to IEC 61439-1 for below clauses subclauses:
	10.2.3.2 Resistance to abnormal heat and fire due to internal electric effects
	(glow-wire test)
	10.2.4 Resistance to ultra-violet (UV) radiation
	10.2.5 Lifting
	10.2.7 Marking
	10.2.8 Mechanical operation tests
	10.4 Verification of Clearances and Creepage distances
	10.2.6 Verification of the IK coding
	10.3 Verification of the IP coding
	10.9.2 Power-frequency withstand voltage
	10.9.3 Impulse withstand voltage
	10.10 Temperature-rise tests
	10.2.2 Resistance to corrosion- damp heat cycling test (Db)
	10.2.2 Resistance to corrosion- salt mist test (Ka)
	10.2.3.1 Thermal stability (dry heat test)
IEC 62208	Empty enclosures for low-voltage switchgear and controlgear assemblies –
	General requirements
	8.7, 9.9 Protection against contact with live parts, ingress of solid foreign bodies
	and water (IP code)
	9.3 Marking
	9.5 Lifting
	9.8 Degree of protection against external mechanical impacts (IK code)
	9.10.1 Thermal stability (dry heat test)
	9.10.3 Resistance to abnormal heat and fire due to internal electric effects (glow-
	wire test)
	9.11 Dielectric strength
	9.14 Resistance to corrosion- damp heat cycling test (Db)
	9.14 Resistance to corrosion- salt mist test (Ka)
IEC 62271-1	High-voltage switchgear and controlgear – Part 1: Common specifications for al-
.20 0227	ternating current switchgear and controlgear.
	Subclauses:
	7.2.7 tests of switchgear and controlgear of U _r ≤ 245 kV
	7.2.8.2 Power Frequency voltage tests.
	7.2.8.3 Switching impulse voltage tests.
	7.2.8.4 Lightning impulse voltage tests
	7.2.10 Partial discharge tests
	7.2.11 Dielectric tests on auxiliary and control circuits
	7.3 Radio interference voltage (RIV) test
	7.4 Resistance measurement
	7.5 Continuous current tests
	7.7(1,2) Verification of the IP coding, Verification of the IK coding
	7.8 Tightness tests
	7.9.1 Emission tests
-	7.10 Additional tests on auxiliary and control circuits
Alternating Current C	
IEC 62271-100	High-voltage switchgear and controlgear – Part 100: Alternating-current cir-
	cuit-breakers
	(Clauses:
	7.2.7.2, 7.2.8.2 Power Frequency voltage tests
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	7.2.7.3, 7.2.8.4 Lightning impulse voltage tests
	7.2.8.3 Switching impulse voltage tests
	7.3 Radio interference voltage (RIV) test
	7.4 Resistance measurement
	7.5 Continuous current tests (Temperature-rise tests.)
	7.7 (1,2) Verification of the protection (IP/IK)
	7.8 Tightness tests
	7.10 Additional tests on auxiliary and control circuits
	7.101 Mechanical and Environmental test
	Disconnectors and Earthing Switches
IEC 62271-102	High-voltage switchgear and controlgear – Part 102: Alternating current dis-
	connectors and earthing switches.
	Clauses:
	7.2 Dielectric tests
	7.3 Radio interference voltage (RIV) test
	7.4 Resistance measurement
	7.5 Continuous current tests
	7.7 Verification of the protection
	7.8 Tightness tests
	7.10 Additional tests on auxiliary and control circuits
	7.102 Operating and mechanical endurance tests
	witches for Rated Voltages Above 1 kV Up to and Including 52 kV
IEC 62271-103	High-voltage switchgear and controlgear – Part 103: Alternating current
	switches for rated voltages above 1 kV up to and including 52 kV.
	clauses:
	7.2 Dielectric tests
	7.3 Radio interference voltage (RIV) test
	7.4 Resistance measurement
	7.5 Continuous current tests
	7.7 Verification of the protection
	7.8 Tightness tests
	7.10 Additional tests on auxiliary and control circuits
	7.102 Operating and mechanical endurance tests
	ear and controlgear – Part 111: Automatic circuit reclosers for alternating
	o and including 38 kV
IEC 62271-111	High-voltage switchgear and control gear –
	Part 111: Automatic circuit reclosing for alternating current system up to and
	including 38 kV
	7.2 Dielectric tests
	7.4 Measurement of the resistance of circuits.
	7.5 Continuous Current Test
	7.7 Verification of the protection
	7.8 Gas tightness tests.
	7.10 Additional tests on auxiliary and control circuits
	7.106 Partial discharge tests.
AO Matala di 10	7.109.3 Mechanical test at ambient temperature
AC Metal-enclosed Stoluding 52 kV	witchgear and Controlgear Rated Voltages Above 1 kV and Up to and In-
IEC 62271-200	High-voltage switchgear and controlgear – Part 200: AC metal-enclosed
	switchgear and controlgear for rated voltages above 1 kV and up to and in-
	cluding 52 kV.
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	Subclauses:7.2.7
	7.2.10 Partial discharge tests
	7.2.11 Dielectric test on auxiliary and control circuits
	7.4 Resistance measurement
	7.5 Continuous Current tests (Heat temperature rise tests)
	7.7(1,2) Verification of the IP coding, Verification of the IK coding
	7.8 Tightness tests
	7.102 Mechanical operation tests
	7.103 Pressure withstand test for gas-filled compartments.
	7.104 Tests to verify the protection of persons against dangerous electrical
	effects
Gas-insulated Metal-encl	osed Switchgear for Rated Voltages Above 52 kV
IEC 62271-203	High-voltage switchgear and controlgear – Part 203: AC gas-insulated
120 0227 1-203	metal-enclosed switchgear for rated voltages above 52 kV
	Clauses:
	7.2.7.2, 7.2.8.2 Power Frequency voltage tests
	7.2.7.3, 7.2.8.4 Lightning impulse voltage tests
	7.2.8.3 Switching impulse voltage tests
	7.2.10 Partial discharge tests
	7.2.11 Dielectric test on auxiliary and control circuits
	7.3 Radio interference voltage (RIV) test
	7.4 Resistance Measurement
	7.5 Temperature-rise tests
	7.7 Verification of the protection (IP/IK)
	7.8 Gas tightness tests
	7.10 Additional tests on auxiliary and control circuits
	7.102 Mechanical and Environmental test
IEC 62271-204	High-voltage switchgear and controlgear – Part 204: Rigid gas insulated
	transmission lines for rated voltages above 52 kV
	Inclusion:
	7.2 Dielectric tests
	7.4 Measurement of the resistance of circuits
	7.5 Continous current test
	7.7 Verification of the protection
	7.8 Tightness tests
Transformers	
IEC 60076-1	Power transformers – Part 1: General (only clauses 11.2, 11.4, 11.5, and
	11.8)
	Subclauses:
	11.1.2.1(i) Check of the ratio and polarity of built-in current transformers
	11.1.2.2 (a & c) & 11.1.4 (c & d) Measurement of capacitance and (tan δ) of
	windings
	11.1.2.2(e), 11.1.3(e) Measurement of no-load loss and current at 90% and
	110% of ratted voltage
	11.1.3(d) Measurement of the power taken by fan and liquid pump motor
	11.1.4(I) Measurement of Frequency Response Analysis (FRA)
	11.3 Measurement of Voltage Ratio and Check of Phase Displacement
	11.2, 14.2.6 Induced voltage withstand test (IVW)
	11.3 Induced Voltage with Partial discharge measurement (IVPD)
	11.6 Measurement of zero-sequence impedance(s) on three phase Trans-
	formers



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	11.7 Tests on on-load tap-changers — Operation test
	11.8 Leak testing with pressure for liquid immersed transformers
	11.12, 11.1.2.2(b), 11.1.4(h) Measurement of DC Insulation Resistance Test
IEC 60076-2	Power transformers - Part 2: Temperature rise for liquid-immersed trans-
	formers (only clause 7)
IEC 60076-3	Power transformers – Part 3: Insulation levels, dielectric tests and external
	clearances in air
	Subclauses:
	9 Insulation of auxiliary wiring (AuxW)
	10 Applied Voltage
	11.2 Induced voltage withstand test (IVW)
	11.3 Induced Voltage with Partial discharge measurement (IVPD)
	12 Line terminal AC withstand test (LTAC)
	13 and 14)
IEC-60076-10	Power transformers - Part 10: Determination of sound levels (only clause
120 00070 10	11.2)
IEC 60076-11	Power transformers – Part 11: Dry-type transformers
120 00070-11	l ower transformers i art i i. Dry-type transformers
	Subclauses:
	14.2.1 Measurement of winding resistance
	14.2.2 Measurement of Voltage Ratio and Check of Phase Displacement
	14.2.3 Measurement of short -circuit impedance and load loss
	14.2.4 Measurement of no-load loss and current
	14.2.5 Applied voltage test (AV)
	14.2.6 Induced voltage withstand test (IVW)
	14.2.7 Induced Voltage with Partial discharge measurement (IVPD)
	14.3 Type tests
	14.4.2 Measurement of sound level
IEO 00070 40	
IEC 60076-18	Power transformers- part 18: measurement of frequency response
Partial Discharge	limb walka wa kasaka ahini awaa . Danki al dia ahiana wa aasan waxaa aha
IEC-60270	High-voltage test techniques - Partial discharge measurements
	d Protection Equipment
IEC 60068-2-6	Environmental testing – Part 2-6: Tests – Test Fc: Vibration (sinusoidal)
IEC 60255-21-1	Electrical relays Part 21: Vibration, shock, bump and seismic test on meas-
	uring relays and protection equipment Section One — Vibration tests (sinus-
	oidal)
Insulators Rated Vo	Itage Above 1 kV
IEC 60168	Tests on indoor and outdoor post insulators of ceramic material or glass for
	systems with nominal voltages greater than 1000 V
	Subclauses:
	4.5 Dry lightning impulse withstands voltage test
	4.6 Dry or Wet switching impulse withstand voltage test
	4.7 Dry power frequency withstand voltage test
	4.8 Wet power frequency withstand voltage test
	4.9 Puncture test
	4.10 Routine electrical test
	5.2 Mechanical falling Load test (bending, tensile, torsion and Compressive
	test)
	5.6 Porosity Test
	5.7 Galvanizing Test
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IEO 00070	The order of the first of the f
IEC 60372	Locking devices for ball and socket couplings of string insulator units Dimen-
	sions and tests, Subclause:
	5.3.3 Visual examination
	5.3.4 Verification of dimensions
IEC 60383-1	Insulators for overhead lines with a nominal voltage above 1000 V –
	Part 1: Ceramic or glass insulator units for a.c. systems – Definitions, test
	methods and acceptance criteria, Subclauses:
	12 Dry lightning impulse voltage test
	13 Wet/dry power frequency voltage test
	15 Puncture withstand test
	16 Routine electrical test
	17 Verification of the dimensions
	18 Electromechanical Failing Load Test
	19 Mechanical failing Load Test
	20 Thermal Mechanical Performance Test
	22 Verification of the axial, radial and angular displacements
	26 Porosity Test
	27 Galvanizing Test
	29 Routine Visual Inspection
IEC 60383-2	Part 2: Insulator strings and insulator sets for a.c. systems - Definitions, test
IEC 00303-2	
	methods and acceptance criteria
	Subclauses:
	9 Dry lightning impulse voltage test
	10 Wet power frequency voltage test
	11 Wet switching impulse voltage test
IEC 60437	Radio interference test on high-voltage insulators
IEC 60507	Artificial pollution tests on high-voltage ceramic and glass insulators to be
	used on a.c. systems.
	Only clauses 5 and 6
IEC 60660	Insulators – Tests on indoor post insulators of organic material
	for systems with nominal voltages greater than 1000 V up to but not includ-
	ing 300 kV
	Subclauses:
	3.3 Dry lightning impulse voltage test
	3.4 Wet/dry power frequency voltage test
	3.5 Partial discharge measurement
IEC 61109	Insulators for overhead lines – Composite suspension and tension insulators
	for a.c. systems with a nominal voltage greater than 1 000 V – Definitions,
	test methods and acceptance criteria, Subclauses:
	9.2.2 tracking and erosion test
	9.4.2 Mechanical Load test
	10.2.4 Dry lightning impulse withstand voltage test
	10.2.5 Wet power-frequency voltage tests
	10.2.6 Wet switching impulse withstand voltage test
	10.3 Damage limit proof Test
	11.5 Galvanizing Test
	11.2 Verification of dimensions
	12.2 Visual examination
IEC 61462	Composite hollow insulators - Pressurized and unpressurized insulators for
12001702	use in electrical equipment with AC rated voltage greater than 1000 V AC
	and D.C. voltage greater than 1500V - Definitions, test methods, acceptance
	pina b.o. voltage greater than 1000 v - bellillions, test methods, acceptance



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	criteria and design recommendations
	Inclusion
	7.3 Tests on shed and housing material except
	7.3.5 Hydrophobocity transfer test
	7.4.2 Porosity Test
	7.4.3 Water diffusion test
	8.4 Internal pressure test
	8.5 Bending test
IEC 61952	Insulators for overhead lines – Composite line post insulators for A.C. sys-
	tems with a nominal voltage greater than 1000 V – Definitions, test methods
	and acceptance criteria, Subclauses:
	11.1 Electrical tests
	10 Table 2 except Steep front impulse Voltage test
	10.2.Tracking and erosion test
	11.2 Mechanical tests
IEC 62155	Hollow pressurized and unpressurized ceramic and glass insulators for use
120 02 133	in electrical equipment with rated voltages greater than 1000 V, Subclauses:
	7.2.1 General Requirements of Pressure test
	7.2.3 Torsion Test
	7.2.4 Tensile Test
	7.2.5 Compression Test
	7.4 Porosity test
150,000.47	10.4 Electrical routine test
IEC 62217	Polymeric HV insulators for indoor and outdoor use – General definitions,
	test methods and acceptance criteria
	9.2.4 Reference dry power frequency test
	9.3 Test on shed and housing material
	9.4.1 Porosity test (Dye Penetration test)
IEC 62231	Composite station post insulators for substations with a.c. voltages greater
	than 1 000 V up to 245 kV – Definitions, test methods and acceptance crite-
	ria, subclauses:
	9.2.2, Wet power withstand voltage test
	8.2.3, Reference dry power frequency test
	9.3 Mechanical tests
IEC 62896	Hybrid insulators for a.c. and d.c. high-voltage applications – Definitions, test
	methods and acceptance criteria
	Subclauses:
	9.2 Dry lightning impulse voltage test
	9.2 Wet/dry power frequency voltage test
	9.2 Dry/Wet switching impulse voltage test
	8.3.3 Polymeric insulator tracking and erosion test.
	9.2 Power frequency puncture overvoltage test, clause 6
	8.2.3.2 Verification of dimensions and visual inspection
Insulating Bushings	Rated Voltage Above 1 kV
IEC 60137	Locking devices for ball and socket couplings of string insulator units Dimen-
	sions and tests
	Subclauses:
	8.4, 9.3 Dry lightning impulse voltage test
	8.5 Dry or Wet switching impulse voltage withstand test.
	8.2, 8.3, 9.4 Wet/dry power frequency voltage test
	8.14 Verification of dimensions and visual inspection
	p. 14 verification of difficiencions and visual inspection



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9.5 Partial discharge measurement
8.8 Temperature rise test.
9.2 Measurement of dielectric dissipation factor (tan δ) and capacitance at
ambient temperature
8.10 Cantilever Load Withstand test
8.12, 9.7 Internal Pressure test
9.6 Test of tap insulation
Thermal-mechanical performance test and mechanical performance test on
string insulator units
Degree of Protection Provided by Enclosures (IP Code)
(except IP5x, IP6x and IPx9)
Environmental testing - Part 2-2: Tests - Test B: Dry heat
Environmental Testing – Part 2-75: Tests – Clause 5 Test Eha: Pendulum
Hammer
Fibre optic interconnecting devices and passive components – Basic test
and measurement procedures – Part 2-22: Tests – Change of temperature
Lightning protection system components (LPSC) – Part 1: Requirements for
connection components, Subclauses:
Annex D.2 Resistance to corrosion- salt mist test cyclic (Kb)
Degrees of protection provided by enclosures for electrical equipment
against external mechanical impacts (IK code)

