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Accreditation Scope

Test
TS EN ISO/IEC 17025
AB-0386-T

TESTLA ELEKTRİK LABORATUVARLARI TİC. LTD. ŞTİ.

Accreditation Nr: AB-0386-T
Revision Nr: 09 Date: 13.06.2022

As a Testing Laboratory

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Low-Voltage Switchgear and Controlgear	Low-voltage switchgear and controlgear- Part 1: General rules	TS EN IEC 60947-1 IEC 60947-1
	Characteristics	Clause 5
	Product information	Clause 6
	Normal service, mounting and transport conditions	Clause 7
	Constructional requirements	Clause 8.1
	Performance requirements	Clause 8.2
	Compliance with constructional requirements	Clause 9.2
	Performance	Clause 9.3
Circuit-Breakers	Low-voltage switchgear and controlgear- Part 2: Circuit-breakers	TS EN 60947-2 IEC 60947-2
	Classification	Clause 3
	Characteristic of circuit-breakers	Clause 4
	Product information	Clause 5
	Constructional requirements	Clause 7.1
	Performance requirements	Clause 7.2
	Compliance with construction rules	Clause 8.2
	Type tests	Clause 8.3
	Routine tests	Clause 8.4
Switches, Disconnectors, Switch-Disconnector and Fuse-Combination Units	Low-Voltage switchgear and controlgear- Part 3: Switches, disconnectors, switch-disconnector and fuse-combination units	TS EN IEC 60947-3 IEC 60947-3
	Classification	Clause 4
	Characteristics	Clause 5
	Product information	Clause 6
	Constructional requirements	Clause 8.1
	Performance requirements	Clause 8.2
	Compliance with constructional requirements	Clause 9.2
	Performance	Clause 9.3

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Electromechanical Contactors and Motor-Starters	Low-voltage switchgear and controlgear- Part 4-1: Contactors and motor-starters -Electromechanical contactors and motor-starters	TS EN IEC 60947-4-1 IEC 60947-4-1
	Classification	Clause 4
	Characteristics of contactors and starters	Clause 5
	Product Information	Clause 6
	Normal service, mounting and transport conditions	Clause 7
	Constructional and performance requirements	Clause 8.1
	Performance requirements	Clause 8.2
	Kinds of test	Clause 9.1
	Compliance with constructional requirements	Clause 9.2
	Compliance with the performance requirements	Clause 9.3
AC Semiconductor Motor Controllers and Starters	Low-voltage switchgear and controlgear - Part 4-2: Contactors and motorstarters - AC semiconductor motor controllers and starters	TS EN 60947-4-2 IEC 60947-4-2
	Constructional requirements	Clause 8.1
	Performance requirements	Clause 8.2
	Tests (Except EMC)	Clause 9 (Except 9.3.5)
AC semiconductor Controllers and Contactors for Non-Motor Loads	Low-voltage switchgear and controlgear - Part 4-3: Contactors and motor-starters -AC semiconductor controllers and contactors for non-motor loads	TS EN 60947-4-3 IEC 60947-4-3
	Constructional requirements	Clause 8.1
	Performance requirements	Clause 8.2
	Tests (Except EMC)	Clause 9 (Except 9.4)

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Electromechanical Control Circuit Devices	Low-voltage switchgear and controlgear - Part 5-1: control circuit devices and switching elements- Electromechanical control circuit devices	TS EN 60947-5-1 IEC 60947-5-1
	Classification	Clause 3
	Characteristics	Clause 4
	Product information	Clause 5
	Normal service, mounting and transport conditions	Clause 6
	Constructional requirements	Clause 7.1
	Performance requirements	Clause 7.2
	Compliance with constructional requirements	Clause 8.2
	Performance	Clause 8.3
Proximity Switches	Low-voltage switchgear and controlgear - Part 5-2: Control circuit devices and switching elements - Proximity switches	TS EN IEC 60947-5-2 IEC 60947-5-2
	Constructional requirements	Clause 8.1
	Performance requirements (Except EMC)	Clause 8.2 (Except 8.2.6)
	Physical dimensions	Clause 8.3
	Compliance with constructional requirements	Clause 9.2
	Temperature rise (Max. AC 50 Hz 10 kA)	Clause 9.3.3.3
	Dielectrical properties (Max. AC 50 Hz 5 kV, 1,2/50 µs 20 kV)	Clause 9.3.3.4
	Verification of making and breaking capability (Max. AC 50 Hz 100 kA)	Clause 9.3.3.5
	Performance under conditional short circuit current (Max. AC 50 Hz 100 kA)	Clause 9.3.4

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Electrical Emergency Stop Device with Mechanical Latching Function	Low-voltage switchgear and controlgear - Part 5-5: Control circuit devices and switching elements - Electrical emergency stop device with mechanical latching function	TS EN 60947-5-5 IEC 60947-5-5
	Marking and product information	Clause 4
	Electrical requirements	Clause 5
	Mechanical requirements	Clause 6
	Testing of the mechanical design (Except vibration test)	Clause 7 (Except 7.6)
Transfer Switching Equipment	Low voltage switchgear and controlgear - Part 6-1: Multiple function equipment -Transfer switching equipment	TS EN 60947-6-1 IEC 60947-6-1
	Constructional requirements	Clause 8.1
	Performance requirements	Clause 8.2
	Kinds of test	Clause 9.1
	Compliance with constructional requirements	Clause 9.2
	Operation	Clause 9.3.3.1
	Controls, sequence and limits of operation	Clause 9.3.3.2
	Temperature rise (Max. AC 50 Hz 10 kA)	Clause 9.3.3.3
	Dielectric properties (Max. AC 50 Hz 5 kV, 1,2/50 µs 20 kV)	Clause 9.3.3.4
	Making and breaking capacities	
	Electrical operational performance	Clause 9.3.3.5
	Mechanical operational performance	Clause 9.3.3.6.2
	Rated short circuit making capacity	Clause 9.3.3.6.3
	Rated short circuit breaking capacity	Clause 9.3.4.2.2
	Verification of the ability to carry rated short-time withstand current	Clause 9.3.4.2.3 Clause 9.3.4.3
	Verification of the rated conditional short-circuit current	Clause 9.3.4.4
	Routine tests (For all short circuit current tests max. AC 50 Hz 100 kA)	Clause 9.4

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Low-Voltage Switchgear and Controlgear Assemblies	Low-voltage switchgear and controlgear assemblies - Part 1: General rules	TS EN IEC 61439-1 IEC 61439-1
	Interface characteristics	Clause 5
	Information	Clause 6
	Service conditions	Clause 7
	Constructional requirements (Except UV)	Clause 8 (Except 8.1.4)
	Dielectrical properties (Max. AC 50 Hz 5 kV, 1,2/50 µs 20 kV)	Clause 9.1
	Temperature-rise limits (Max. AC 50 Hz 10 kA)	Clause 9.2
	Short-circuit protection and short-circuit withstand strength (Max. AC 50 Hz 100 kA)	Clause 9.3
	Strength of materials and parts (Except UV)	Clause 10.2 (Except 10.2.4)
	Degree of protection of assemblies (IP Code) (Max. IP68, IK 50j)	Clause 10.3
	Clearances and creepage distances	Clause 10.4
	Protection against electric shock and integrity of protective circuits	Clause 10.5
	Incorporation of switching devices and components	Clause 10.6
	Internal electrical circuits and connections	Clause 10.7
	Terminals for external conductors	Clause 10.8
	Dielectrical properties (Max. AC 50 Hz 5 kV, 1,2/50 µs 20 kV)	Clause 10.9
	Temperature-rise (Max. AC 50 Hz 10 kA)	Clause 10.10
	Short-circuit withstand strength (Max. AC 50 Hz 100 kA)	Clause 10.11
	Routine verification	Clause 11

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Accreditation Nr: AB-0386-T

Revision Nr: 09 Date: 13.06.2022

Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Power Switchgear and Controlgear Assemblies	Low Voltage Switchgear and controlgear assemblies - Part 2: Power switchgear and controlgear assemblies	TS EN IEC 61439-2 IEC 61439-2
	Interface characteristics	Clause 5
	Information	Clause 6
	Service conditions	Clause 7
	Constructional requirements (Except UV)	Clause 8
	Performance requirements (Except UV, EMC)	Clause 9
	Design verification (Except UV, EMC)	Clause 10
	Routine verification	Clause 11
Distribution Boards Intended to be Operated by Ordinary Persons (DBO)	Low-voltage switchgear and controlgear assemblies - Part 3: Distribution boards intended to be operated by ordinary persons (DBO)	TS EN 61439-3 IEC 61439-3
	Interface characteristics	Clause 5
	Information	Clause 6
	Service conditions	Clause 7
	Constructional requirements (Except UV)	Clause 8
	Performance requirements (Except UV, EMC)	Clause 9
	Design verification (Except UV, EMC)	Clause 10
	Routine verification	Clause 11
Particular Requirements for Assemblies for Construction Sites (ACS)	Low-voltage switchgear and controlgear assemblies - Part 4: Particular requirements for assemblies for construction sites (ACS)	TS EN 61439-4 IEC 61439-4
	Interface characteristics	Clause 5
	Information	Clause 6
	Service conditions	Clause 7
	Constructional requirements (Except UV)	Clause 8
	Performance requirements (Except UV, EMC)	Clause 9
	Design verification (Except UV, EMC)	Clause 10
	Routine verification	Clause 11
	Particular features of ACS	Clause 101

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Assemblies for Power Distribution in Public Networks (PENDA)	Low-voltage switchgear and controlgear assemblies - Part 5: Assemblies for power distribution in public networks (PENDA)	TS EN 61439-5 IEC 61439-5
	Interface characteristics	Clause 5
	Information	Clause 6
	Service conditions	Clause 7
	Constructional requirements (Except UV)	Clause 8
	Performance requirements (Except UV, EMC)	Clause 9
	Design verification (Except UV, EMC)	Clause 10
	Routine verification	Clause 11
Busbar Trunking Systems (Busways)	Low-voltage switchgear and controlgear assemblies - Part 6: Busbar trunking systems (busways)	TS EN 61439-6 IEC 61439-6
	Interface characteristics	Clause 5
	Information	Clause 6
	Service conditions	Clause 7
	Constructional requirements (Except UV)	Clause 8
	Performance requirements (Except UV, EMC)	Clause 9
	Design verifications (Except UV, EMC)	Clause 10
	Routine verifications	Clause 11
Electric Vehicles Charging Stations	Low-voltage switchgear and controlgear assemblies - Part 7: Assemblies for specific applications such as marinas, camping sites, market squares, electric vehicles charging stations	TS EN IEC 61439-7 IEC 61439-7
	Interface characteristics	Clause 5
	Information	Clause 6
	Service conditions	Clause 7
	Constructional requirements (Except UV)	Clause 8
	Performance requirements (Except UV, EMC)	Clause 9
	Design verification (Except UV, EMC)	Clause 10
	Routine verification	Clause 11

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Low-Voltage Switchgear and Controlgear	Enclosed low-voltage switchgear and controlgear assemblies - Guide for testing under conditions of arcing due to internal fault	IEC TR 61641
Low-Voltage Switchgear and Controlgear Assemblies in Ships	Electrical installations in ships - Part 302-2: Low-voltage switchgear and controlgear assemblies- Marine power Constructional requirements Performance requirements Design verification Routine verification	TS IEC 60092-302-2 IEC 60092-302-2 Clause 8 Clause 9 Clause 10 Clause 11
Empty Enclosures	Empty enclosures for low-voltage switchgear and controlgear assemblies -General requirements Classification Information to be given regarding the enclosure Service conditions Design and construction Type tests (Except UV)	TS EN 62208 IEC 62208 Clause 4 Clause 6 Clause 7 Clause 8 Clause 9 (Except 9.12)
Residual Current Operated Circuit Breakers	Residual current operated circuit breakers without integral overcurrent protection for household and similar uses (RCCBs)-Part 1: General rules Classification Characteristics of RCCB's Marking and other product information Standard Conditions for operation in service and for installation Requirements for construction and operation (Except EMC) Tests (Except EMC)	TS EN 61008-1 IEC 61008-1 Clause 4 Clause 5 Clause 6 Clause 7 Clause 8 Clause 9

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TÜRKAK Test TS EN ISO/IEC 17025 AB-0386-T	**TESTLA ELEKTRİK LABORATUVARLARI TİC. LTD. ŞTİ.** **Accreditation Nr: AB-0386-T** **Revision Nr: 09 Date: 13.06.2022**

Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Residual Current Operated Circuit Breakers	Residual current operated circuit breaker without integral overcurrent protection for household and similar uses (RCCB) Part 2.1: Applicability of the General Rules to RCCB'S functionally independent of line voltage	TS EN 61008-2-1 IEC 61008-2-1
	Classification	Clause 4
	Characteristics of RCCB's	Clause 5
	Marking and other product information	Clause 6
	Standard Conditions for operation in service and for installation	Clause 7
	Requirements for construction and operation (Except EMC)	Clause 8
	Tests (Except EMC)	Clause 9 (Except 9.24)

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Residual Current Operated Circuit Breakers	Residual current operated circuit breakers with integral overcurrent protection for household and similar uses (RCBOs) - Part 1: General rules	TS EN 61009-1 IEC 61009-1
	Marking and other product information	Clause 6
	Test of indelibility of marking	Clause 9.3
	Test of reliability of screws, current-carrying parts and connections	Clause 9.4
	Test of reliability of terminals for external conductors	Clause 9.5
	Verification of protection against electric shock	Clause 9.6
	Test of temperature-rise (Max. AC 50 Hz 10 kA)	Clause 9.8
	Verification of the operating characteristic	Clause 9.9
	Verification of mechanical and electrical endurance	Clause 9.10
	Verification of the trip-free mechanism	Clause 9.11
	Short-circuit tests (Max. AC 50 Hz 100 kA)	Clause 9.12
	Test of resistance to heat	Clause 9.14
	Test of resistance to abnormal heat and to fire (Max. 1000 °C)	Clause 9.15
	Verification of the behaviour of RCBOs functionally dependent on-line voltage, classified under 4.1.2.1, in case of failure of the line voltage	Clause 9.17
	Verification of behaviour of RCBOs in case of current surges caused by impulse voltages	Clause 9.19
	Verification of resistance of the insulation against an impulse voltage (Max. 1,2/50 µs 20 kV)	Clause 9.20

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Electrical Accessories - Circuit-Breakers	Electrical accessories - Circuit-breakers for overcurrent protection for household and similar installations - Part 1: Circuit-breakers for a.c. operation	TS EN 60898-1 IEC 60898-1
	Classification	Clause 4
	Characteristics of circuit-breakers	Clause 5
	Marking and other product information	Clause 6
	Standard conditions for operation in service	Clause 7
	Requirements for construction and operation (Except EMC)	Clause 8
	Type Tests and test sequences	Clause 9.1
	Test Conditions	Clause 9.2
	Test of indelibility of marking	Clause 9.3
	Test of reliability of screws, current-carrying parts and connections	Clause 9.4
	Tests of reliability of screw-type terminals for external copper conductors	Clause 9.5
	Test of protection against electric shock	Clause 9.6
	Test of dielectric properties (Max.AC 50Hz 5 kV, 1,2/50µs 20 kV)	Clause 9.7
	Test of temperature-rise and measurement of power loss (Max. AC 50 Hz 10 kA)	Clause 9.8
	28-day test	Clause 9.9
	Test of tripping characteristic	Clause 9.10
	Verification of mechanical and electrical endurance	Clause 9.11
	Short Circuit Tests (Max. AC 50 Hz 100 kA)	Clause 9.12
	Mechanical stresses (Max. IK 50j	Clause 9.13
	Test of resistance to heat (Max. -40 °C, +150 °C)	Clause 9.14
	Resistance to abnormal heat and to fire (Max. 1000 °C)	Clause 9.15
	Test of resistance to rusting (Max. 50 °C, %95 RH)	Clause 9.16

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Low-Voltage Fuses	Low-voltage fuses - Part 1: General requirements	TS EN 60269-1 IEC 60269-1
	Markings	Clause 6
	General	Clause 8.1
	Verification of the insulating properties and of the suitability for isolation	Clause 8.2
	Verification of temperature rise and power dissipation (Max. AC 50 Hz 10 kA)	Clause 8.3
	Verification of operation	Clause 8.4
	Verification of the breaking capacity (Max. AC 50 Hz 100 kA)	Clause 8.5
	Verification of the cut-off current characteristics (Max. AC 50 Hz 100 kA)	Clause 8.6
	Verification of I^2t characteristics and overcurrent selectivity (Max. AC 50 Hz 100 kA)	Clause 8.7
	Verification of the degree of protection of enclosures (Max. IP68, IK 50j)	Clause 8.8
	Verification of the resistance to heat	Clause 8.9
	Verification of non-deterioration of contacts	Clause 8.10
	Mechanical and miscellaneous tests	Clause 8.11

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Low-Voltage Fuses	Low-voltage fuses -Part 2: Supplementary requirements for fuses for use by authorized persons (fuses mainly for industrial application) - Examples of standardized systems of fuses A to K	TS HD 60269-2 IEC 60269-2
	Markings	Clause 6
	General	Clause 8.1
	Verification of the insulating properties and of the suitability for isolation	Clause 8.2
	Verification of temperature rise and power dissipation (Max. AC 50 Hz 10 kA)	Clause 8.3
	Verification of operation	Clause 8.4
	Verification of the breaking capacity (Max. AC 50 Hz 100 kA)	Clause 8.5
	Verification of the cut-off current characteristics (Max. AC 50 Hz 100 kA)	Clause 8.6
	Verification of I^2t characteristics and overcurrent selectivity (Max. AC 50 Hz 100 kA)	Clause 8.7
	Verification of the degree of protection of enclosures (Max. IP68, IK 50j)	Clause 8.8
	Verification of the resistance to heat	Clause 8.9
	Verification of non-deterioration of contacts	Clause 8.10
	Mechanical and miscellaneous tests	Clause 8.11

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Instrument Transformers	Instrument transformers - Part 1: General requirements	TS EN 61869-1 IEC 61869-1
	Requirements for earthing of equipment	Clause 6.5
	Degrees of protection by enclosures	Clause 6.10
	Temperature-rise test (Max AC 50 Hz 10 kA)	Clause 7.2.2
	Impulse voltage withstand test on primary terminals (Max. 1,2/50 µs 200 kV)	Clause 7.2.3
	Verification of IP-Protection code (Max. IP68)	Clause 7.2.7.1
	IK-Mechanical impact (Max. IK 50j)	Clause 7.2.7.2
	Power-frequency voltage withstand tests on primary terminals (Max. AC 50 Hz 100 kV)	Clause 7.3.1
	Power-frequency voltage withstand tests between sections (Max. AC 50 Hz 100 kV)	Clause 7.3.3
	Power frequency voltage withstand tests on secondary terminals (Max. AC 50 Hz 100 kV)	Clause 7.3.4
	Test for accuracy	Clause 7.3.5
	Verification of markings	Clause 7.3.6
	Corrosion test (Max. 50 °C, %95 RH)	Clause 7.4.9
Instrument Transformers	Instrument transformers- Part 2: Additional requirements for current transformers	TS EN 61869-2 IEC 61869-2
	Ratings	Clause 5
	Design and construction	Clause 6
	Temperature-rise test (Max. AC 50 Hz 10 kA)	Clause 7.2.2
	Impulse voltage withstand test on primary terminals (Max. 1,2/50 µs 200 kV)	Clause 7.2.3
	Tests for accuracy	Clause 7.2.6
	Short-time current test (Max. AC 50 Hz 100 kA)	Clause 7.2.201
	Routine tests	Clause 7.3
	Special tests	Clause 7.4
	Sample tests	Clause 7.5

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Enclosures	Degrees of protection provided by enclosures (IP code) (For electrical equipment)	TS 3033 EN 60529 IEC 60529
	Tests for protection against access to hazardous parts indicated by the first characteristic numeral	Clause 12
	Tests for protection against solid foreign objects indicated by the first characteristic numeral (Max. IP6X, dust chamber dimensions: 1,3m X 2,2m X 2,03)	Clause 13
	Test for second characteristic numeral 1 with the drip box	Clause 14.2.1
	Test for second characteristic numeral 2 with the drip box	Clause 14.2.2
	Test for second characteristic numeral 3 with spray nozzle	Clause 14.2.3
	Test for second characteristic numeral 4 with spray nozzle	Clause 14.2.4
	Test for second characteristic numeral 5 with the 6,3 mm nozzle	Clause 14.2.5
	Test for second characteristic numeral 6 with the 12,5 mm nozzle	Clause 14.2.6
	Test for second characteristic numeral 7: temporary immersion between 0,15 m and 1 m	Clause 14.2.7
	Test for second characteristic numeral 8: continuous immersion subject to agreement	Clause 14.2.8
	Tests for protection against access to hazardous parts indicated by the additional letter	Clause 15
Enclosures	Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code) (Max. IK 50j)	TS EN 62262 IEC 62262
Electrotechnical Products	Environmental testing - Part 1: General and guidance	TS EN 60068-1 IEC 60068-1
Electrotechnical Products	Environmental testing - Part 2-75: Tests - Test Eh: Hammer tests	TS EN 60068-2-75 IEC 60068-2-75

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Products	TS EN 60695-XX Series FIRE HAZARD TESTS	
	Part 2-10: Glowing/hot-wire based test methods - Glow-wire apparatus and common test procedure (Max.1000 °C)	TS EN 60695-2-10 IEC 60695-2-10
	Part 2-11: Glowing/hot-wire based test methods - Glow-wire flammability test method for end-products (GWEPT) (Max. 1000 °C)	TS EN 60695-2-11 IEC 60695-2-11
	Part 2-12: Glowing/hot-wire based test methods - Glow-wire flammability index (GWFI) test method for materials (Max. 1000 °C)	TS EN IEC 60695-2-12 IEC 60695-2-12
	Part 2-13: Glowing/hot-wire based test methods - Glow-wire ignition temperature (GWIT) test method for materials (Max. 1000 °C)	TS EN IEC 60695-2-13 IEC 60695-2-13
	Part 10-2: Abnormal heat - Ball pressure test method	TS EN 60695-10-2 IEC 60695-10-2
	Part 11-5: Test Flames - Needle Flame Test Method- Devices, verification test mechanism and guide (Max. 1000 °C)	TS EN 60695-11-5 IEC 60695-11-5
	Part 11-10: Test flames - 50 W horizontal and vertical flame test methods	TS EN 60695-11-10 IEC 60695-11-10
Insulating Materials	Method for the determination of the proof and the comparative tracking indices of solid insulating materials	TS EN IEC 60112 IEC 60112
Residual Current Operated Protective Devices	General requirements for residual current operated protective devices	TS IEC 60755 IEC 60755
	Marking and other product information	Clause 6
	Conditions for construction and operations (Except EMC)	Clause 8
	Preparation of test clauses for RCD product standards and of test clauses for RCD incorporated or embedded in an equipment (Except EMC)	Clause 9

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Electrical Equipment for Measurement, Control and Laboratory Use	Safety requirements electrical equipment for measurement, control and laboratory use. Part 1: General requirements	TS EN 61010-1 IEC 61010-1
	Marking and documentation	Clause 5
	Protection against electrical shock	Clause 6
	Protection against mechanical HAZARDS	Clause 7
	Resistance to mechanical stresses	Clause 8
	Protection against the spread of fire	Clause 9
	Equipment temperature limits and resistance to heat	Clause 10
	Protection against HAZARDS from fluids	Clause 11
	Components and subassemblies	Clause 14
	Protection by interlocks	Clause 15
	HAZARDS resulting from application	Clause 16
Boxes and Enclosures	Boxes and enclosures - For electrical accessories for household and similar fixed electrical installations - Part 1: General requirements	TS EN IEC 60670-1 IEC 60670-1
	Markings	Clause 8
	Dimensions	Clause 9
	Protection against electrical shock	Clause 10
	Provision for earthing	Clause 11
	Construction	Clause 12
	Resistance to ageing, protection against ingress of solid objects and against harmful ingress of water	Clause 13
	Insulation resistance and electric strength (Max. 1000 MΩ)	Clause 14
	Mechanical strength	Clause 15
	Resistance to heat	Clause 16
	Creepage distances, clearances and distances through sealing compound	Clause 17
	Resistance of insulating material to abnormal heat and fire (Max. 1000 °C)	Clause 18
	Resistance to tracking	Clause 19
	Resistance to corrosion (Max. 50 °C, %95 RH)	Clause 20

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Boxes and Enclosures	Boxes and enclosures for electrical accessories for household and similar fixed electrical installation Part 22: Particular requirements Terminal boxes and enclosures	TS EN 60670-22 IEC 60670-22
	Markings	Clause 8
	Dimensions	Clause 9
	Protection against electrical shock	Clause 10
	Provision for earthing	Clause 11
	Construction	Clause 12
	Resistance to ageing, protection against ingress of solid objects and against harmful ingress of water	Clause 13
	Insulation resistance and electrical strength (Max.1000 MΩ)	Clause 14
	Mechanical strength (Max. IK 50j)	Clause 15
	Resistance to heat	Clause 16
	Creepage distances, clearances and distances through sealing compound	Clause 17
	Resistance of insulating material to abnormal heat and fire (Max. 1000 °C)	Clause 18
	Resistance to tracking	Clause 19
	Resistance to corrosion (Max. 50 °C, %95 RH)	Clause 20

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Boxes and Enclosures	Boxes and enclosures for electrical accessories for household and similar fixed electrical installation- Part 24: Particular requirements for enclosures of protection installations and power distributed electrical equipments	TS EN 60670-24 IEC 60670-24
	Markings	Clause 8
	Dimensions	Clause 9
	Protection against electrical shock	Clause 10
	Provision for earthing	Clause 11
	Construction	Clause 12
	Resistance to ageing, protection against ingress of solid objects and against harmful ingress of water	Clause 13
	Insulation resistance and electrical strength (Max.1000 MΩ)	Clause 14
	Mechanical strength (Max. IK 50j)	Clause 15
	Resistance to heat	Clause 16
	Creepage distances, clearances and distances through sealing compound	Clause 17
	Resistance of insulating material to abnormal heat and fire (Max. 1000 °C)	Clause 18
	Resistance to tracking	Clause 19
	Resistance to corrosion (Max. 50 °C, %95 RH)	Clause 20
	Verification of the maximum capability to dissipate power (Pde)	Clause 101
	Verification of temperature rise	Clause 102
Power Capacitors	Power capacitors - Low-voltage power factor correction banks	TS EN 61921 IEC 61921
	Type tests	Clause 7.2
	Routine tests	Clause 7.3

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Power Capacitors	Shunt power capacitors of the self-healing type for a.c. systems having a rated voltage up to and including 1000 V - Part 1: General- Performance, testing and rating - Safety requirements - Guide for installation and operation	TS EN 60831-1 IEC 60831-1
	Voltage tests between terminals and container (Max. AC 50 Hz 100 kV)	Clause 10
	Sealing test	Clause 12
	Lightning impulse voltage test between terminals and container (Un≤690V) (Max. 1,2/50 µs 20 kV)	Clause 15
	Container connections	Clause 23
	Protection of the environment- Glow wire test (Max.1000°C)	Clause 24
	Other safety requirements	Clause 25
	Marking of the unit	Clause 26
	Marking of the bank	Clause 27
Mechanical Structures for Electronic Equipment	Mechanical structures for electronic equipment - Tests for IEC 60917 and IEC 60297 series - Part 1: Environmental requirements, test set-up and safety aspects for cabinets, racks, subracks and chassis under indoor condition use and transportation	TS EN 61587-1 IEC 61587-1
	Climatic tests-Cold, dry heat and damp heat (cyclic)	Clause 6.2
	Mechanical tests-Statical mechanical load tests	Clause 7.2.1
	Lifting tests (Max. 3 tonnes)	Clause 7.3.2.2
	Stiffness tests	Clause 7.3.2.3
	Impact test (Max. IK 50j)	Clause 7.3.4
	Earth bond	Clause 8.2
	Flammability (Max. 1000 °C)	Clause 8.3
	Degrees of protection provided by enclosures (IP Code) (Max. IP68)	Clause 8.4

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
High-Voltage Switchgear and Controlgear	High-voltage switchgear and controlgear - Part 1: Common specifications for alternating current switchgear and controlgear	TS EN 62271-1 IEC 62271-1
	Degrees of protection provided by enclosures (Max. IP68, IK 50j)	Clause 6.14
	Power-frequency voltage tests (Max. AC 50 Hz 100 kV)	Clause 7.2.7.2
	Lightning impulse voltage tests (Max. 1,2/50 µs 200 kV)	Clause 7.2.7.3
	Dielectric tests related to auxiliary and control circuits (Max. AC 50Hz 5 kV, 1,2/50 µs 20 kV)	Clause 7.2.11
	Resistance measurement	Clause 7.4
	Continuous current tests (Max. AC 50 Hz 10 kA)	Clause 7.5
	Short-time withstand current and peak withstand current tests (Max. AC 50 Hz 100 kA)	Clause 7.6
	Verification of the protection (IP-IK) (Max. IP68, IK 50j)	Clause 7.7
	Verification of operational characteristics of auxiliary contacts	Clause 7.10.3
	Dielectric tests (Max.AC 50Hz 100kV, 1,2/50µs 200kV)	Clause 7.10.5
	Dielectric test on the main circuit (Max.AC 50Hz 100kV, 1,2/50µs 200kV)	Clause 8.2
	Tests on auxiliary and control circuits	Clause 8.3
	Measurement of the resistance of the main circuit	Clause 8.4
	Design and visual checks	Clause 8.6

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Tested Materials / Products	**Name of Test**	**Testing Method (National, International standards, in house methods)**
High-Voltage Switchgear and Controlgear	High-voltage switchgear and controlgear- Part 100: Alternating current circuit-breakers	TS EN IEC 62271-100 IEC 62271-100
	Degrees of protection provided by enclosures (Max. IP68, IK 50j)	Clause 6.14
	Power-frequency voltage tests (Max. AC 50 Hz 100 kV)	Clause 7.2.7.2
	Lightning impulse voltage tests (Max. 1,2/50 µs 200 kV)	Clause 7.2.7.3
	Dielectric tests related to auxiliary and control circuits (Max.AC 50Hz 5 kV, 1,2/50µs 20 kV)	Clause 7.2.11
	Resistance measurement	Clause 7.4
	Continuous current tests (Max. AC 50 Hz 10 kA)	Clause 7.5
	Short-time withstand current and peak withstand current tests (Max. AC 50 Hz 100 kA)	Clause 7.6
	Verification of the protection (IP-IK) (Max. IP68, IK 50j)	Clause 7.7
	Verification of operating characteristics of auxiliary contacts	Clause 7.10.3
	Mechanical and environmental tests	Clause 7.101
	Dielectric test in main circuit (Max.AC 50Hz 100kV, 1,2/50µs 200kV)	Clause 8.2
	Tests on auxiliary and control circuits	Clause 8.3
	Measurement of the resistance of the main circuit	Clause 8.4
	Design and visual checks	Clause 8.6

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
High-Voltage Switchgear and Controlgear	High-voltage switchgear and controlgear - Part 102: Alternating current disconnectors and earthing switches	TS EN IEC 62271-102 IEC 62271-102
	Degree of protection provided by enclosures (Max. IP68, IK 50j)	Clause 6.14
	Tests of disconnectors and earthing switches of Ur ≤ 245 kV (Max.AC 50Hz 100kV, 1,2/50µs 200kV)	Clause 7.2.7
	Dielectric tests on auxiliary and control circuits (Max.AC 50Hz 5 kV, 1,2/50µs 20 kV)	Clause 7.2.11
	Resistance measurement	Clause 7.4
	Continuous current tests (Max. AC 50 Hz 10 kA)	Clause 7.5
	Short-time withstand current and peak withstand current tests (Max. AC 50 Hz 100 kA)	Clause 7.6
	Verification of the protection (Max. IP68, IK 50j)	Clause 7.7
	Test to prove the short-circuit making performance of switches (Max. AC 50 Hz 100 kA)	Clause 7.101
	Operating and mechanical endurance test	Clause 7.102
	Dielectrical test on main circuit (Max.AC 50Hz 100kV, 1,2/50µs 200kV)	Clause 8.2
	Tests on auxiliary and control circuits (Max.AC 50Hz 5 kV, 1,2/50µs 20 kV)	Clause 8.3
	Measurement of the resistance of the main circuit	Clause 8.4
	Design and visual checks	Clause 8.6
	Mechanical operating tests	Clause 8.101

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Tested Materials / Products	**Name of Test**	**Testing Method (National, International standards, in house methods)**
High-Voltage Switchgear and Controlgear	High-voltage switchgear and controlgear - Part 103: Switches for rated voltages above 1 kV up to and including 52 kV	TS EN 62271-103 IEC 62271-103
	Degrees of protection provided by enclosures (Max. IP68, IK 50j)	Clause 5.13
	Dielectric tests (Max.AC 50Hz 100kV, 1,2/50µs 200kV)	Clause 6.2
	Measurement of the resistance of circuits.	Clause 6.4
	Temperature-rise tests (Max. AC 50 Hz 10 kA)	Clause 6.5
	Short-time withstand current and peak withstand current tests (Max. AC 50 Hz 100 kA)	Clause 6.6
	Verification of the protection (Max. IP68, IK 50j)	Clause 6.7
	Electrical continuity of earthed metallic parts test	Clause 6.10.3
	Verification of operating characteristics of auxiliary contacts	Clause 6.10.4
	Dielectric tests (Max.AC 50Hz 100kV, 1,2/50µs 200kV)	Clause 6.10.6
	Routine test: Dielectric test on main circuit (Max.AC 50Hz 100kV, 1,2/50µs 200kV)	Clause 7
	Routine test:Tests of auxiliary and control circuits (Max.AC 50Hz 5 kV, 1,2/50µs 20 kV)	Clause 7
	Routine test: Measuring main circuit's resistance	Clause 7
	Routine test: Design and visual control	Clause 7

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
High-Voltage Switchgear and Controlgear	High-voltage switchgear and controlgear - Part 104: Alternating current switches for rated voltages higher than 52 kV	TS EN IEC 62271-104 IEC 62271-104
	Measurement of the resistance of circuits	Clause 7.4
	Temperature rise tests (Max. AC 50 Hz 10 kA)	Clause 7.5
	Short-time withstand current and peak withstand current (Max. AC 50 Hz 100 kA)	Clause 7.6
	Verification of the protection (Max. IP68, IK 50j)	Clause 7.7
	Mechanical operation tests (Except 7.101.5)	Clause 7.101 (Except 7.101.5)
	Tests on auxiliary and control circuits	Clause 8.3
	Measurement of the resistance of the main circuit	Clause 8.4
	Design and visual checks	Clause 8.6
	Mechanical operating tests	Clause 8.101
High-Voltage Switchgear and Controlgear	High-voltage switchgear and controlgear - Part 105: Alternating current switch-fuse combinations for rated voltage	TS EN 62271-105 IEC 62271-105
	Degrees of protection provided by enclosures (Max. IP68, IK 50j)	Clause 5.13
	Dielectric tests (Max.AC 50Hz 100kV, 1,2/50µs 200kV)	Clause 6.2
	Measurement of the resistance of circuits	Clause 6.4
	Temperature-rise tests (Max. AC 50 Hz 10 kA)	Clause 6.5
	Short-time withstand current and peak withstand current tests (Max. AC 50 Hz 100 kA)	Clause 6.6
	Verification of the protection (Max. IP68, IK 50j)	Clause 6.7
	Routine test: Dielectric test on main circuit (Max.AC 50Hz 100kV, 1,2/50µs 200kV)	Clause 7
	Routine test: Tests of auxiliary and control circuits	Clause 7
	Routine test: Measuring main circuit's resistance	Clause 7
	Routine test: Design and visual control	Clause 7

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
High-Voltage Switchgear and Controlgear	High-voltage switchgear and controlgear - Part 200: AC metal enclosed switchgear and controlgear for rated voltages above 1 kV and up to and including 52 kV	TS EN IEC 62271-200 IEC 62271-200
	Degrees of protection provided by enclosures (Max. IP68, IK 50j)	Clause 6.14
	Dielectric tests (Max.AC 50Hz 100kV, 1,2/50µs 200kV)	Clause 7.2
	Resistance measurement	Clause 7.4
	Continuous current tests (Max. AC 50 Hz 10 kA)	Clause 7.5
	Short-time withstand current and peak withstand current tests (Max. AC 50 Hz 100 kA)	Clause 7.6
	Verification of the protection (Max. IP68, IK 50j	Clause 7.7
	Dielectric test on main circuit (Max.AC 50Hz 100kV, 1,2/50µs 200kV)	Clause 8.2
	Tests on auxiliary circuits and test circuits (Max.AC 50Hz 5 kV, 1,2/50µs 20 kV)	Clause 8.3
	Measurement of the resistance of the main circuit	Clause 8.4
	Design and visual checks	Clause 8.6
	Mechanical operation tests	Clause 8.102

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
High-Voltage Switchgear and Controlgear	High-voltage switchgear and controlgear - Part 201: AC insulation-enclosed switchgear and controlgear for rated voltages above 1 kV and up to and including 52 kV	TS EN 62271-201 IEC 62271-201
	Degrees of protection provided by enclosures (Max. IP68, IK 50j)	Clause 5.13
	Dielectric tests (Max.AC 50Hz 100kV, 1,2/50µs 200kV)	Clause 6.2
	Measurement of the resistance of circuits	Clause 6.4
	Temperature-rise tests (Max. AC 50 Hz 10 kA)	Clause 6.5
	Short-time withstand current and peak withstand current tests (Max. AC 50 Hz 100 kA)	Clause 6.6
	Verification of the protection (Max. IP68, IK 50j)	Clause 6.7
	Electrical Continuity belonging to test of earthed metalical parts	Clause 6.10.3
	Verification of the operational characteristics of auxiliary contacts	Clause 6.10.4
	Dielectrical test (Max.AC 50Hz 100kV, 1,2/50µs 200kV)	Clause 6.10.6
	Dielectrical test on the main circuit (Max.AC 50Hz 100kV, 1,2/50µs 200kV)	Clause 7.1
	Measurement of the resistance of the main circuit	Clause 7.3
	Design and visual checks	Clause 7.5
	Mechanical operation tests	Clause 7.102

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Tested Materials / Products	**Name of Test**	**Testing Method (National, International standards, in house methods)**
High-Voltage Switchgear and Controlgear	High-voltage switchgear and controlgear - Part 202: High-voltage/ low-voltage prefabricated substation	TS EN 62271-202 IEC 62271-202
	Degrees of protection provided by enclosures (Max. IP68, IK 50j)	Clause 5.13
	Dielectric tests (Max.AC 50Hz 100kV, 1,2/5 µs 200kV)	Clause 6.2
	Measurement of the resistance of circuits	Clause 6.4
	Temperature rise test (Max. AC 50 Hz 10 kA)	Clause 6.5
	Short-time withstand current and peak withstand current tests (Max. AC 50 Hz 100 kA)	Clause 6.6
	Verification of the protection (Max. IP68, IK 50j)	Clause 6.7
	Calculations and mechanical tests	Clause 6.101
	Internal arc test	Clause 6.102
	Dielectric test on the high voltage interconnection (Max.AC 50Hz 100kV, 1,2/50µs 200kV)	Clause 7.101
	Voltage withstand test on auxiliary circuits (Max.AC 50Hz 100kV, 1,2/50µs 200kV)	Clause 7.102
	Functional tests	Clause 7.103
	Verification of correct wiring	Clause 7.104
Instrument Transformers	Instrument transformers - Part 3: Additional requirements for inductive voltage transformers	TS EN 61869-3 IEC 61869-3
	Impulse voltage withstand test on primary terminals (Max. 1,2/50 µs 200 kV)	Clause 7.2.3 (Except 7.2.3.3)
	Power-frequency voltage withstand tests on primary terminals (Max. AC 50 Hz 100 kV)	Clause 7.3.1

End of Scope

G. Banu MÜDERRİSOĞLU
Secretary General