



TURKISH ACCREDITATION AGENCY

ACCREDITATION CERTIFICATE

As a Testing Laboratory

EMEK ELEKTRİK ENDÜSTRİSİ ANONİM ŞİRKETİ

Central Address: SARACALAR MAH. ÖZAL. BLV. EMEK ELEKTRİK NO:224 AKYURT Ankara / Türkiye

is accredited in accordance with TS EN ISO/IEC 17025:2017 standard within the scope given in Annex following the assessment conducted by TURKAK.

Accreditation Number : AB-0475-T

Accreditation Date : 09.08.2011

Revision Date / Number : 05.07.2024 / 10

This certificate shall remain in force until **06.12.2027**, subject to continuing compliance with the standard **TS EN ISO/IEC 17025:2017**, related regulations and requirements.

Gülden Banu Müderrisoğlu
Secretary General



Turkish Accreditation Agency (TURKAK) is a signatory to the European co-operation for Accreditation (EA) Multilateral Agreement (MLA) and International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Agreement (MRA) in the scope of ISO/IEC 17025.

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 Türk TS EN ISO/IEC 17025 AB-0475-T	EMEK ELEKTRİK ENDÜSTRİSİ ANONİM ŞİRKETİ	
	Accreditation Nr: AB-0475-T Revision Nr: 10 Date: 05.07.2024	
	Testing Laboratory	
Address : SARACALAR MAH. ÖZAL. BLV. EMEK ELEKTRİK NO:224 AKYURT Ankara / Türkiye		Phone : +90 312 398 0181 Fax : +90 312 398 0474 Email : kalite@emek.com.tr Website : www.emek.com.tr

Electrical,Electronic and IT Products and Devices		
Tested Materials / Products	Name of Test	Testing Method (National, International Standards, In-house Methods)
Instrument transformers	Instrument transformers - Part 2: Additional requirements for current transformers Temperature rise test	TS EN 61869-2 IEC 61869-2 Clause 7.2.2 Clause 7.2.2
Instrument transformers	Instrument transformers - Part 3: Additional requirements for inductive voltage transformers Temperature rise test	TS EN 61869-3 IEC 61869-3 Clause 7.2.2 Clause 7.2.2
Instrument transformers	Instrument transformers - Part 5: Additional requirements for capacitor voltage transformers Temperature rise test	TS EN 61869-5 IEC 61869-5 Clause 7.2.2 Clause 7.2.2
Instrument transformers	Instrument transformers - Part 1: General requirements Impulse voltage withstand test on primary terminals	TS EN 61869-1 IEC 61869-1 Clause 7.2.3 Clause 7.2.3
Instrument transformers	Instrument transformers - Part 2: Additional requirements for current transformers Impulse voltage withstand test on primary terminals	TS EN 61869-2 IEC 61869-2 Clause 7.2.3 Clause 7.2.3
Instrument transformers	Instrument transformers - Part 3: Additional requirements for inductive voltage transformers Impulse voltage withstand test on primary terminals	TS EN 61869-3 IEC 61869-3 Clause 7.2.3 Clause 7.2.3
Instrument transformers	Instrument transformers - Part 5: Additional requirements for capacitor voltage transformers Impulse voltage withstand test on primary terminals	TS EN 61869-5 IEC 61869-5 Clause 7.2.3 Clause 7.2.3
Instrument transformers	Instrument transformers - Part 1: General requirements Impulse voltage withstand test on primary terminals Switching Impulse Test	TS EN 61869-1 IEC 61869-1 Clause 7.2.3 Clause 7.2.3
Instrument transformers	Instrument transformers - Part 2: Additional requirements for current transformers Impulse voltage withstand test on primary terminals Switching Impulse Test	TS EN 61869-2 IEC 61869-2 Clause 7.2.3 Clause 7.2.3
Instrument transformers	Instrument transformers - Part 3: Additional requirements for inductive voltage transformers Impulse voltage withstand test on primary terminals Switching Impulse Test	TS EN 61869-3 IEC 61869-3 Clause 7.2.3 Clause 7.2.3

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Instrument transformers	Instrument transformers - Part 5: Additional requirements for capacitor voltage transformers Impulse voltage withstand test on primary terminals Switching Impulse Test	TS EN 61869-5 IEC 61869-5 Clause 7.2.3 Clause 7.2.3
Instrument transformers	Instrument transformers - Part 1: General requirements Wet test for outdoor type instrument transformers	TS EN 61869-1 IEC 61869-1 Clause 7.2.4 Clause 7.2.4
Instrument transformers	Instrument transformers - Part 2: Additional requirements for current transformers Wet test for outdoor type instrument transformers	TS EN 61869-2 IEC 61869-2 Clause 7.2.4 Clause 7.2.4
Instrument transformers	Instrument transformers - Part 3: Additional requirements for inductive voltage transformers Wet test for outdoor type instrument transformers	TS EN 61869-3 IEC 61869-3 Clause 7.2.4 Clause 7.2.4
Instrument transformers	Instrument transformers - Part 5: Additional requirements for capacitor voltage transformers Wet test for outdoor type instrument transformers	TS EN 61869-5 IEC 61869-5 Clause 7.2.4 Clause 7.2.4
Instrument transformers	Instrument transformers - Part 1: General requirements RIV test	TS EN 61869-1 IEC 61869-1 Clause 7.2.5.1 Clause 7.2.5.1
Instrument transformers	Instrument transformers - Part 2: Additional requirements for current transformers RIV test	TS EN 61869-2 IEC 61869-2 Clause 7.2.5.1 Clause 7.2.5.1
Instrument transformers	Instrument transformers - Part 3: Additional requirements for inductive voltage transformers RIV test	TS EN 61869-3 IEC 61869-3 Clause 7.2.5.1 Clause 7.2.5.1
Instrument transformers	Instrument transformers - Part 5: Additional requirements for capacitor voltage transformers RIV test	TS EN 61869-5 IEC 61869-5 Clause 7.2.5.1 Clause 7.2.5.1
Instrument transformers	Instrument transformers - Part 1: General requirements Tests for accuracy	TS EN 61869-1 IEC 61869-1 Clause 7.2.6 and 7.3.5 Clause 7.2.6 and 7.3.6
Instrument transformers	Instrument transformers - Part 2: Additional requirements for current transformers Tests for accuracy	TS EN 61869-2 IEC 61869-2 Clause 7.2.6 and 7.3.5 Clause 7.2.6 and 7.3.5

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Instrument transformers	Instrument transformers - Part 3: Additional requirements for inductive voltage transformers Tests for accuracy	TS EN 61869-3 IEC 61869-3 Clause 7.2.6 and 7.3.5 Clause 7.2.6 and 7.3.5
Instrument transformers	Instrument transformers - Part 5: Additional requirements for capacitor voltage transformers Tests for accuracy	TS EN 61869-5 IEC 61869-5 Clause 7.2.6 and 7.3.5 Clause 7.2.6 and 7.3.5
Instrument transformers	Instrument transformers - Part 1: General requirements Power-frequency voltage withstand tests on primary terminals	TS EN 61869-1 IEC 61869-1 Clause 7.3.1 Clause 7.3.1
Instrument transformers	Instrument transformers - Part 2: Additional requirements for current transformers Power-frequency voltage withstand tests on primary terminals	TS EN 61869-2 IEC 61869-2 Clause 7.3.1 Clause 7.3.1
Instrument transformers	Instrument transformers - Part 3: Additional requirements for inductive voltage transformers Power-frequency voltage withstand tests on primary terminals	TS EN 61869-3 IEC 61869-3 Clause 7.3.1 Clause 7.3.1
Instrument transformers	Instrument transformers - Part 5: Additional requirements for capacitor voltage transformers Power-frequency voltage withstand tests on primary terminals	TS EN 61869-5 IEC 61869-5 Clause 7.3.1 Clause 7.3.1
Instrument transformers	Instrument transformers - Part 1: General requirements Partial discharge measurement	TS EN 61869-1 IEC 61869-1 Clause 7.3.2 Clause 7.3.2
Instrument transformers	Instrument transformers - Part 2: Additional requirements for current transformers Partial discharge measurement	TS EN 61869-2 IEC 61869-2 Clause 7.3.2 Clause 7.3.2
Instrument transformers	Instrument transformers - Part 3: Additional requirements for inductive voltage transformers Partial discharge measurement	TS EN 61869-3 IEC 61869-3 Clause 7.3.2 Clause 7.3.2
Instrument transformers	Instrument transformers - Part 5: Additional requirements for capacitor voltage transformers Partial discharge measurement	TS EN 61869-5 IEC 61869-5 Clause 7.3.2 Clause 7.3.2
Instrument transformers	Instrument transformers - Part 1: General requirements Power-frequency voltage withstand tests between sections Power-frequency voltage withstand tests on secondary terminals	TS EN 61869-1 IEC 61869-1 Clause 7.3.3 and 7.3.4 Clause 7.3.3 and 7.3.4

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Instrument transformers	Instrument transformers - Part 2: Additional requirements for current transformers Power-frequency voltage withstand tests between sections Power-frequency voltage withstand tests on secondary terminals	TS EN 61869-2 IEC 61869-2 Clause 7.3.3 and 7.3.4 Clause 7.3.3 and 7.3.4
Instrument transformers	Instrument transformers - Part 3: Additional requirements for inductive voltage transformers Power-frequency voltage withstand tests between sections Power-frequency voltage withstand tests on secondary terminals	TS EN 61869-3 IEC 61869-3 Clause 7.3.3 and 7.3.4 Clause 7.3.3 and 7.3.4
Instrument transformers	Instrument transformers - Part 5: Additional requirements for capacitor voltage transformers Power-frequency voltage withstand tests between sections Power-frequency voltage withstand tests on secondary terminals	TS EN 61869-5 IEC 61869-5 Clause 7.3.3 and 7.3.4 Clause 7.3.3 and 7.3.4
Instrument transformers	Instrument transformers - Part 2: Additional requirements for current transformers Inter-turn overvoltage test	TS EN 61869-2 IEC 61869-2 Clause 7.3.204 Clause 7.3.204
Instrument transformers	Instrument transformers - Part 1: General requirements Liquid systems / Enclosure tightness test at ambient temperature	TS EN 61869-1 IEC 61869-1 Clause 7.3.7.2 Clause 7.3.8.2
Instrument transformers	Instrument transformers - Part 1: General requirements Verification of markings	TS EN 61869-1 IEC 61869-1 Clause 7.3.6 Clause 7.3.7
Instrument transformers	Instrument transformers - Part 2: Additional requirements for current transformers Determination of the secondary winding resistance	TS EN 61869-2 IEC 61869-2 Clause 7.3.201 Clause 7.3.201
Instrument transformers	Instrument transformers - Part 2: Additional requirements for current transformers Determination of the secondary loop time constant	TS EN 61869-2 IEC 61869-2 Clause 7.3.202 Clause 7.3.202
Instrument transformers	Instrument transformers - Part 2: Additional requirements for current transformers Test for rated knee point e.m.f. and exciting current at rated knee point e.m.f.	TS EN 61869-2 IEC 61869-2 Clause 7.3.203 Clause 7.3.203
Instrument transformers	Instrument transformers - Part 3: Additional requirements for inductive voltage transformers Short-circuit withstand capability test	TS EN 61869-3 IEC 61869-3 Clause 7.2.301 Clause 7.2.301
Instrument transformers	Instrument transformers - Part 5: Additional requirements for capacitor voltage transformers Short-circuit withstand capability test	TS EN 61869-5 IEC 61869-5 Clause 7.2.502 Clause 7.2.502

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Instrument transformers	Instrument transformers - Part 5: Additional requirements for capacitor voltage transformers Capacitance and tan δ measurement at power-frequency	TS EN 61869-5 IEC 61869-5 Clause 7.2.501 Clause 7.2.501
Instrument transformers	Instrument transformers - Part 5: Additional requirements for capacitor voltage transformers Chopped impulse voltage withstand test on primary terminals	TS EN 61869-5 IEC 61869-5 Clause 7.4.1 Clause 7.4.1
Instrument transformers	Instrument transformers - Part 5: Additional requirements for capacitor voltage transformers Ferro-resonance tests	TS EN 61869-5 IEC 61869-5 Clause 7.2.503 and 7.3.501 Clause 7.2.503 and 7.3.501
Instrument transformers	Instrument transformers - Part 5: Additional requirements for capacitor voltage transformers Enclosure tightness test at ambient temperature	TS EN 61869-5 IEC 61869-5 Clause 7.2.8 Clause 7.2.8
Instrument transformers	Instrument transformers - Part 5: Additional requirements for capacitor voltage transformers Transient response test	TS EN 61869-5 IEC 61869-5 Clause 7.2.504 Clause 7.2.504
Instrument transformers	Instrument transformers - Part 5: Additional requirements for capacitor voltage transformers Enclosure tightness test at ambient temperature Tightness of the liquid-filled capacitor voltage divider	TS EN 61869-5 IEC 61869-5 Clause 7.3.7 Clause 7.3.7
Instrument transformers	Instrument transformers - Part 5: Additional requirements for capacitor voltage transformers Power-frequency -withstand test on low-voltage terminal of the capacitor voltage divider	TS EN 61869-5 IEC 61869-5 Clause 7.3.1.503 Clause 7.3.1.503
Instrument transformers	Instrument transformers - Part 5: Additional requirements for capacitor voltage transformers Power-frequency withstand tests on the electromagnetic unit	TS EN 61869-5 IEC 61869-5 Clause 7.3.1.504 Clause 7.3.1.504
Instrument transformers	Instrument transformers - Part 5: Additional requirements for capacitor voltage transformers Type tests for carrier frequency accessories	TS EN 61869-5 IEC 61869-5 Clause 7.2.505 Clause 7.2.505
Instrument transformers	Instrument transformers - Part 5: Additional requirements for capacitor voltage transformers Type tests for drain coil / Impulse voltage test	TS EN 61869-5 IEC 61869-5 Clause 7.2.505.1 Clause 7.2.505.1
Instrument transformers	Instrument transformers - Part 5: Additional requirements for capacitor voltage transformers Type tests for drain coil / Impulse voltage test	TS EN 61869-5 IEC 61869-5 Clause 7.2.505.1.1 Clause 7.2.505.1.1

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Instrument transformers	Instrument transformers - Part 5: Additional requirements for capacitor voltage transformers Type tests for drain coil / Voltage withstand test	TS EN 61869-5 IEC 61869-5 Clause 7.2.505.1.2 Clause 7.2.505.1.2
Instrument transformers	Instrument transformers - Part 5: Additional requirements for capacitor voltage transformers Type test for voltage limitation device	TS EN 61869-5 IEC 61869-5 Clause 7.2.505.2 Clause 7.2.505.2
Instrument transformers	Instrument transformers - Part 5: Additional requirements for capacitor voltage transformers Routine tests for carrier frequency accessories	TS EN 61869-5 IEC 61869-5 Clause 7.3.502 Clause 7.3.502
Instrument transformers	Instrument transformers - Part 5: Additional requirements for capacitor voltage transformers Routine test for voltage limitation devices / Routine tests for drain coils	TS EN 61869-5 IEC 61869-5 Clause 7.3.502.1 Clause 7.3.502.1
Instrument transformers	Instrument transformers - Part 5: Additional requirements for capacitor voltage transformers Routine test for voltage limitation devices	TS IEC 61869-5 EN 61869-5 IEC 61869-5 Clause 7.3.502.2 Clause 7.3.502.2
Instrument transformers	Instrument transformers - Part 1: General requirements Impulse voltage withstand test on primary terminals	TS EN 61869-1 IEC 61869-1 Clause 7.4.1 Clause 7.2.3
Instrument transformers	Instrument transformers - Part 2: Additional requirements for current transformers Chopped impulse voltage withstand test on primary terminals	TS EN 61869-2 IEC 61869-2 Clause 7.4.1 Clause 7.4.1
Instrument transformers	Instrument transformers - Part 3: Additional requirements for inductive voltage transformers Chopped impulse voltage withstand test on primary terminals	TS EN 61869-3 IEC 61869-3 Clause 7.4.1 Clause 7.4.1
Instrument transformers	Instrument transformers - Part 1: General requirements Multiple chopped impulse test on primary terminals (Except : dissolved gas analysis in oil)	TS EN 61869-1 IEC 61869-1 Clause 7.4.2 Clause 7.4.1
Instrument transformers	Instrument transformers - Part 2: Additional requirements for current transformers Multiple chopped impulse test on primary terminals (Except : dissolved gas analysis in oil)	TS EN 61869-2 EN 61869-2 Clause 7.4.2 Clause 7.4.2
Instrument transformers	Instrument transformers - Part 3: Additional requirements for inductive voltage transformers Multiple chopped impulse test on primary terminals (Except : dissolved gas analysis in oil)	TS EN 61869-3 IEC 61869-3 Clause 7.4.2 Clause 7.4.2

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Instrument transformers	Instrument transformers - Part 1: General requirements Measurement of capacitance and dielectric dissipation factor	TS EN 61869-1 IEC 61869-1 Clause 7.4.3 Clause 7.3.10
Instrument transformers	Instrument transformers - Part 2: Additional requirements for current transformers Measurement of capacitance and dielectric dissipation factor	TS EN 61869-2 IEC 61869-2 Clause 7.4.3 Clause 7.4.3
Instrument transformers	Instrument transformers - Part 3: Additional requirements for inductive voltage transformers Measurement of capacitance and dielectric dissipation factor	TS EN 61869-3 IEC 61869-3 Clause 7.4.3 Clause 7.4.3
Instrument transformers	Instrument transformers - Part 1: General requirements Transmitted overvoltage test	TS EN 61869-1 IEC 61869-1 Clause 7.4.4 Clause 7.4.2
Instrument transformers	Instrument transformers - Part 2: Additional requirements for current transformers Transmitted overvoltage test	TS EN 61869-2 EN 61869-2 Clause 7.4.4 Clause 7.4.4
Instrument transformers	Instrument transformers - Part 3: Additional requirements for inductive voltage transformers Transmitted overvoltage test	TS EN 61869-3 IEC 61869-3 Clause 7.4.4 Clause 7.4.4
Instrument transformers	Instrument transformers - Part 5: Additional requirements for capacitor voltage transformers Transmitted overvoltage test	TS EN 61869-5 IEC 61869-5 Clause 7.4.4 Clause 7.4.4
Instrument transformers	Instrument transformers - Part 1: General requirements Mechanical tests	TS EN 61869-1 IEC 61869-1 Clause 7.4.5 Clause 7.2.10
Instrument transformers	Instrument transformers - Part 2: Additional requirements for current transformers Mechanical tests	TS EN 61869-2 IEC 61869-2 Clause 7.4.5 Clause 7.4.5
Instrument transformers	Instrument transformers - Part 3: Additional requirements for inductive voltage transformers Mechanical tests	TS EN 61869-3 IEC 61869-3 Clause 7.4.5 Clause 7.4.5
Instrument transformers	Instrument transformers - Part 5: Additional requirements for capacitor voltage transformers Mechanical tests	TS EN 61869-5 IEC 61869-5 Clause 7.4.5 Clause 7.4.5

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Instrument transformers	Instrument transformers - Part 5: Additional requirements for capacitor voltage transformers Determination of the temperature coefficient (TC)	TS EN 61869-5 IEC 61869-5 Clause 7.4.501 Clause 7.4.501
Instrument transformers	Instrument transformers - Part 5: Additional requirements for capacitor voltage transformers Tightness design test of capacitor units	TS EN 61869-5 IEC 61869-5 Clause 7.4.502 Clause 7.4.502
High-voltage switchgear and controlgear	High-voltage switchgear and controlgear - Part 102: Alternating current disconnectors and earthing switches Dielectric tests	TS EN 62271-102 IEC 62271-102 Clause 7.2 and 8.2 (Except clause 7.2.9) Clause 7.2 and 8.2 (Except clause 7.2.9)
High-voltage switchgear and controlgear	High-voltage switchgear and controlgear - Part 1: Common specifications for alternating current switchgear and controlgear Dielectric tests	TS EN 62271-1 IEC 62271-1 Clause 7.2 (Except clause 7.2.9) Clause 7.2 (Except clause 7.2.9)
High-voltage switchgear and controlgear	High-voltage switchgear and controlgear - Part 102: Alternating current disconnectors and earthing switches Radio interference voltage (RIV) test	TS EN 62271-102 IEC 62271-102 Clause 7.3 Clause 7.3
High-voltage switchgear and controlgear	High-voltage switchgear and controlgear - Part 1: Common specifications for alternating current switchgear and controlgear Radio interference voltage (RIV) test	TS EN 62271-1 IEC 62271-1 Clause 7.3 and 7.9.1.1 Clause 7.3 and 7.9.1.1
High-voltage switchgear and controlgear	High-voltage switchgear and controlgear - Part 102: Alternating current disconnectors and earthing switches Resistance measurement	TS EN 62271-102 IEC 62271-102 Clause 7.4 and 8.4 Clause 7.4 and 8.4
High-voltage switchgear and controlgear	High-voltage switchgear and controlgear - Part 1: Common specifications for alternating current switchgear and controlgear Resistance measurement	TS EN 62271-1 IEC 62271-1 Clause 7.4 Clause 7.4
High-voltage switchgear and controlgear	High-voltage switchgear and controlgear - Part 102: Alternating current disconnectors and earthing switches Continuous current tests	TS EN 62271-102 IEC 62271-102 Clause 7.5 Clause 7.5
High-voltage switchgear and controlgear	High-voltage switchgear and controlgear - Part 1: Common specifications for alternating current switchgear and controlgear Continuous current tests	TS EN 62271-1 IEC 62271-1 Clause 7.5 Clause 7.5
High-voltage switchgear and controlgear	High-voltage switchgear and controlgear - Part 102: Alternating current disconnectors and earthing switches Mechanical endurance test	TS EN 62271-102 IEC 62271-102 Clause 7.102.3, 8.101 and 8.102 Clause 7.102.3, 8.101 and 8.102

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High-voltage switchgear and controlgear	High-voltage switchgear and controlgear - Part 102: Alternating current disconnectors and earthing switches Operation during the application of rated static mechanical terminal loads	TS EN 62271-102 IEC 62271-102 Clause 7.102.4 Clause 7.102.4
High-voltage switchgear and controlgear	High-voltage switchgear and controlgear - Part 102: Alternating current disconnectors and earthing switches Extended mechanical endurance tests	TS EN 62271-102 IEC 62271-102 Clause 7.102.5 Clause 7.102.5
High-voltage switchgear and controlgear	High-voltage switchgear and controlgear - Part 102: Alternating current disconnectors and earthing switches Testing of mechanical interlocking devices	TS EN 62271-102 IEC 62271-102 Clause 7.102.6 Clause 7.102.6
High-voltage switchgear and controlgear	High-voltage switchgear and controlgear - Part 102: Alternating current disconnectors and earthing switches Tests to verify the proper functioning of the position-indicating device	TS EN 62271-102 IEC 62271-102 Clause 7.105 Clause 7.105
High-voltage switchgear and controlgear	High-voltage switchgear and controlgear - Part 102: Alternating current disconnectors and earthing switches, Dielectric tests on auxiliary and control circuits	TS EN 62271-102 IEC 62271-102 Clause 7.2.11, 8.3 and 7.10.5 Clause 7.2.11, 8.3 and 7.10.5
High-voltage switchgear and controlgear	High-voltage switchgear and controlgear - Part 1: Common specifications for alternating current switchgear and controlgear Dielectric tests on auxiliary and control circuits	TS EN 62271-1 IEC 62271-1 Clause 7.2.11, 8.3 and 7.10.5 Clause 7.2.11, 8.3 and 7.10.5
High-voltage switchgear and controlgear	High-voltage switchgear and controlgear - Part 102: Alternating current disconnectors and earthing switches Operation under severe ice conditions	TS EN 62271-102 IEC 62271-102 Clause 7.103 Clause 7.103
High-voltage switchgear and controlgear	High-voltage switchgear and controlgear - Part 102: Alternating current disconnectors and earthing switches Low- and high-temperature tests	TS EN 62271-102 IEC 62271-102 Clause 7.104 Clause 7.104
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 Dielectric tests Power frequency voltage test Lightning impulse voltage test Wet test	TS EN 62271-103 IEC 62271-103 Clause 7.2 Clause 7.2
High-voltage switchgear and controlgear	High-voltage switchgear and controlgear - Part 1: Common specifications for alternating current switchgear and controlgear Dielectric tests	TS EN 62271-1 IEC 62271-1 Clause 7.2 (Except clause 7.2.9) Clause 7.2 (Except clause 7.2.9)
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 Additional tests on auxiliary and control circuits	TS EN 62271-103 IEC 62271-103 Clause 7.10 Clause 7.10

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 Test TS EN ISO/IEC 17025 AB-0475-T	EMEK ELEKTRİK ENDÜSTRİSİ ANONİM ŞİRKETİ Accreditation Nr: AB-0475-T Revision Nr: 10 Date: 05.07.2024 Testing Laboratory Address : SARACALAR MAH. ÖZAL. BLV. EMEK ELEKTRİK NO:224 AKYURT Ankara / Türkiye Phone : +90 312 398 0181 Fax : +90 312 398 0474 Email : kalite@emek.com.tr Website : www.emek.com.tr	
High-voltage switchgear and controlgear	High-voltage switchgear and controlgear - Part 1: Common specifications for alternating current switchgear and controlgear Additional tests on auxiliary and control circuits (Dielectric test)	TS EN 62271-1 IEC 62271-1 Clause 7.2.11 Clause 7.2.11
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 Resistance measurement	TS EN 62271-103 IEC 62271-103 Clause 7.4 Clause 7.4
High-voltage switchgear and controlgear	High-voltage switchgear and controlgear - Part 1: Common specifications for alternating current switchgear and controlgear Resistance measurement	TS EN 62271-1 IEC 62271-1 Clause 7.4 Clause 7.4
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 Continuous current tests	TS EN 62271-103 IEC 62271-103 Clause 7.5 Clause 7.5
High-voltage switchgear and controlgear	High-voltage switchgear and controlgear - Part 1: Common specifications for alternating current switchgear and controlgear Continuous current tests	TS EN 62271-1 IEC 62271-1 Clause 7.5 Clause 7.5
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 Dielectric tests Power frequency voltage test Lightning impulse voltage test	TS EN 62271-200 IEC 62271-200 Clause 7.2 Clause 7.2
High-voltage switchgear and controlgear	High-voltage switchgear and controlgear - Part 1: Common specifications for alternating current switchgear and controlgear Dielectric tests	TS EN 62271-1 IEC 62271-1 Clause 7.2 (Except clause 7.2.9) Clause 7.2 (Except clause 7.2.9)
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 Partial discharge tests	TS EN 62271-200 IEC 62271-200 Clause 7.2.10 Clause 7.2.10
High-voltage switchgear and controlgear	High-voltage switchgear and controlgear - Part 1: Common specifications for alternating current switchgear and controlgear Partial discharge tests	TS EN 62271-1 IEC 62271-1 Clause 7.2.10 Clause 7.2.10
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 Dielectric tests on auxiliary and control circuits	TS EN 62271-200 IEC 62271-200 Clause 7.2.11 Clause 7.2.11
High-voltage switchgear and controlgear	High-voltage switchgear and controlgear - Part 1: Common specifications for alternating current switchgear and controlgear Dielectric tests on auxiliary and control circuits	TS EN 62271-1 IEC 62271-1 Clause 7.2.11 Clause 7.2.11

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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 Resistance measurement	TS EN 62271-200 IEC 62271-200 Clause 7.4 Clause 7.4
High-voltage switchgear and controlgear	High-voltage switchgear and controlgear - Part 1: Common specifications for alternating current switchgear and controlgear Resistance measurement	TS EN 62271-1 IEC 62271-1 Clause 7.4 Clause 7.4
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 Continuous current tests	TS EN 62271-200 IEC 62271-200 Clause 7.5 Clause 7.5
High-voltage switchgear and controlgear	High-voltage switchgear and controlgear - Part 1: Common specifications for alternating current switchgear and controlgear Continuous current tests	TS EN 62271-1 IEC 62271-1 Clause 7.5 Clause 7.5
Power transformers	Power transformers – Part 3: Insulation levels, dielectric tests and external clearances in air Lightning impulse tests (LI, LIC, LIN, LIMT)	TS EN 60076-3 IEC 60076-3 Clause 13 Clause 13
Power transformers	Power transformers – Part 3: Insulation levels, dielectric tests and external clearances in air Switching impulse test (SI)	TS EN 60076-3 IEC 60076-3 Clause 14 Clause 14
Insulators	Insulators – Tests on door post insulators of organic material for systems with nominal voltages grater than 1 kV up to but not including 300 kV Dry lightning impulse withstand voltage test	TS EN 60660 IEC 60660 Clause 3.3 Clause 3.3
Insulators	Insulators – Tests on door post insulators of organic material for systems with nominal voltages grater than 1 kV up to but not including 300 kV Dry power-frequency withstand voltage test	TS EN 60660 IEC 60660 Clause 3.4 Clause 3.4
Insulators	Insulators – Tests on door post insulators of organic material for systems with nominal voltages grater than 1 kV up to but not including 300 kV Partial discharge extinction voltage test	TS EN 60660 IEC 60660 Clause 3.5 Clause 3.5
Insulators	Insulators – Tests on door post insulators of organic material for systems with nominal voltages grater than 1 kV up to but not including 300 kV Lightning impulse puncture test	TS EN 60660 IEC 60660 Clause 3.6 Clause 3.6
Insulators	Insulators – Tests on door post insulators of organic material for systems with nominal voltages grater than 1 kV up to but not including 300 kV Mechanical failing load test	TS EN 60660 IEC 60660 Clause 3.7 Clause 3.7

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Insulators	Insulators – Tests on door post insulators of organic material for systems with nominal voltages grater than 1 kV up to but not including 300 kV Test for deflection under load at normal ambient temperature conditions	TS EN 60660 IEC 60660 Clause 3.8 Clause 3.8
Insulators	Insulators – Tests on door post insulators of organic material for systems with nominal voltages grater than 1 kV up to but not including 300 kV Test for mechanical bending strength as a function of temperature	TS EN 60660 IEC 60660 Clause 3.9 Clause 3.9
Insulators	Insulators – Tests on door post insulators of organic material for systems with nominal voltages grater than 1 kV up to but not including 300 kV Water absorption test	TS EN 60660 IEC 60660 Clause 3.10 Clause 3.10
Insulators	Insulators – Tests on door post insulators of organic material for systems with nominal voltages grater than 1 kV up to but not including 300 kV Temperature cycle test	TS EN 60660 IEC 60660 Clause 3.13 Clause 3.13
Insulators	Insulators – Tests on door post insulators of organic material for systems with nominal voltages grater than 1 kV up to but not including 300 kV Visual examination	TS EN 60660 IEC 60660 Clause 5.2 Clause 5.2
Insulators	Insulators – Tests on door post insulators of organic material for systems with nominal voltages grater than 1 kV up to but not including 300 kV Mechanical routine test	TS EN 60660 IEC 60660 Clause 5.3 Clause 5.3
Insulators	Insulators – Tests on door post insulators of organic material for systems with nominal voltages grater than 1 kV up to but not including 300 kV Electrical routine test and partial discharge measurement	TS EN 60660 IEC 60660 Clause 5.4 Clause 5.4
Polymeric HV insulators	Polymeric HV insulators for indoor and outdoor use - General definitions, test methods and acceptance criteria Reference dry power frequency test	TS EN 62217 IEC 62217 Clause 9.2.4 Clause 9.2.4
Polymeric HV insulators	Polymeric HV insulators for indoor and outdoor use - General definitions, test methods and acceptance criteria Steep-front impulse voltage test	TS EN 62217 IEC 62217 Clause 9.2.7.3 Clause 9.2.7.3
Polymeric HV insulators	Polymeric HV insulators for indoor and outdoor use - General definitions, test methods and acceptance criteria Dry power frequency voltage test	TS EN 62217 IEC 62217 Clause 9.2.7.4 Clause 9.2.7.4
Insulators for overhead lines	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 Electrical tests / Dry lightning impulse withstand voltage test	TS EN 61109 IEC 61109 Clause 11.1 Clause 11.1

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	Testing Laboratory	
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	Phone : +90 312 398 0181 Fax : +90 312 398 0474 Email : kalite@emek.com.tr Website : www.emek.com.tr	
Insulators for overhead lines	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 Electrical tests / Wet power-frequency test	TS EN 61109 IEC 61109 Clause 11.1 Clause 11.1
Insulators for overhead lines	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 Electrical tests/Wet switching impulse withstand voltage test for insulators intended for systems with Um ≥ 300 kV	TS EN 61109 IEC 61109 Clause 11.1 Clause 11.1
Composite Hollow Insulators	Composite hollow insulators - Pressurized and unpressurized insulators for use in electrical equipment with rated voltage greater than 1 000 V - Definitions, test methods, acceptance criteria and design recommendations Reference disruptive – discharge dry power frequency test	TS EN 61462 IEC 61462 Clause 7.2.3 Clause 7.2.3
Composite Hollow Insulators	Composite hollow insulators - Pressurized and unpressurized insulators for use in electrical equipment with rated voltage greater than 1 000 V - Definitions, test methods, acceptance criteria and design recommendations Steep-front impulse voltage test	TS EN 61462 IEC 61462 Clause 7.2.6.2 Clause 7.2.6.2
Composite Hollow Insulators	Composite hollow insulators - Pressurized and unpressurized insulators for use in electrical equipment with rated voltage greater than 1 000 V - Definitions, test methods, acceptance criteria and design recommendations Dry power frequency voltage test	TS EN 61462 IEC 61462 Clause 7.2.6.3 Clause 7.2.6.3
Insulators for overhead lines	Insulators for overhead lines with a nominal voltage above 1000V Part 1: Ceramic or glass insulator units for a.c. systems-Definitions, Test methods and acceptance criteria. Dry lightning impulse voltage tests	TS EN 60383-1 IEC 60383-1 Clause 12 Clause 12
Insulators for overhead lines	Insulators for overhead lines with a nominal voltage above 1000V Part 1: Ceramic or glass insulator units for a.c. systems-Definitions, Test methods and acceptance criteria. Wet power frequency withstand voltage tests	TS EN 60383-1 IEC 60383-1 Clause 13 Clause 13
Insulators for overhead lines	Insulators for overhead lines with a nominal voltage above 1000 V-Part 2:Insulator strings and insulator sets for a.c. systems-Definitions, test methods and acceptance criteria Lightning impulse voltage tests	TS EN 60383-2 IEC 60383-2 Clause 9 Clause 9
Insulators for overhead lines	Insulators for overhead lines with a nominal voltage above 1000 V-Part 2:Insulator strings and insulator sets for a.c. systems-Definitions, test methods and acceptance criteria Wet power-frequency voltage tests	TS EN 60383-2 IEC 60383-2 Clause 10 Clause 10
Insulators for overhead lines	Insulators for overhead lines with a nominal voltage above 1000 V-Part 2:Insulator strings and insulator sets for a.c. systems-Definitions, test methods and acceptance criteria Wet switching impulse voltage tests	TS EN 60383-2 IEC 60383-2 Clause 11 Clause 11
Post Insulators	Tests on indoor and outdoor post insulators of ceramic material or glass for systems with nominal voltages greater than 1000 V Dry lightning-impulse withstand voltage test – Type test	TS 556 EN 60168/A2 IEC 60168 Clause 4.5 Clause 4.5

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	Address : SARACALAR MAH. ÖZAL. BLV. EMEK ELEKTRİK NO:224 AKYURT Ankara / Türkiye	Phone : +90 312 398 0181 Fax : +90 312 398 0474 Email : kalite@emek.com.tr Website : www.emek.com.tr
Post Insulators	Tests on indoor and outdoor post insulators of ceramic material or glass for systems with nominal voltages greater than 1000 V Dry or wet switching-impulse withstand voltage tests – Type test	TS 556 EN 60168/A2 IEC 60168 Clause 4.6 Clause 4.6
Post Insulators	Tests on indoor and outdoor post insulators of ceramic material or glass for systems with nominal voltages greater than 1000 V Dry power-frequency withstand voltage test – Type test (applicable only to post insulators for indoor use)	TS 556 EN 60168/A2 IEC 60168 Clause 4.7 Clause 4.7
Post Insulators	Tests on indoor and outdoor post insulators of ceramic material or glass for systems with nominal voltages greater than 1000 V Wet power-frequency withstand voltage test – Type test (applicable only to post insulators for outdoor use)	TS 556 EN 60168/A2 IEC 60168 Clause 4.8 Clause 4.8
Insulated bushings	Insulated bushings for alternating voltages above 1 000 V Dry or wet power-frequency voltage withstand test	TS EN 60137 IEC 60137 Clause 8.2 Clause 8.2
Insulated bushings	Insulated bushings for alternating voltages above 1 000 V Dry lightning impulse voltage withstand test	TS EN 60137 IEC 60137 Clause 8.4 Clause 8.4
Insulated bushings	Insulated bushings for alternating voltages above 1 000 V Dry or wet switching impulse voltage withstand test	TS EN 60137 IEC 60137 Clause 8.5 Clause 8.5
Insulated bushings	Insulated bushings for alternating voltages above 1 000 V Measurement of dielectric dissipation factor (tan δ) and capacitance at ambient temperature	TS EN 60137 IEC 60137 Clause 9.2 Clause 9.2
Insulated bushings	Insulated bushings for alternating voltages above 1 000 V Measurement of partial discharge quantity .	TS EN 60137 IEC 60137 Clause 9.5 Clause 9.5
Insulated bushings	Insulated bushings for alternating voltages above 1 000 V Tests of tap insulation	TS EN 60137 IEC 60137 Clause 9.6 Clause 9.6
Composite station post insulators	Composite station post insulators for substations with a.c. voltages greater than 1000 V up to 245 kV - Definitions, test methods and acceptance criteria Reference dry power frequency test	TS EN 62231 IEC 62231 Clause 8.2.3 Clause 8.2.3
Composite station post insulators	Composite station post insulators for substations with a.c. voltages greater than 1000 V up to 245 kV - Definitions, test methods and acceptance criteria Dry lightning impulse voltage test	TS EN 62231 IEC 62231 Clause 9.2.1 Clause 9.2.1

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Composite station post insulators	Composite station post insulators for substations with a.c. voltages greater than 1000 V up to 245 kV - Definitions, test methods and acceptance criteria Wet power frequency withstand voltage test	TS EN 62231 IEC 62231 Clause 9.2.2 Clause 9.2.2
High-voltage insulators	Radio interference test on high-voltage insulators	TS 6080 EN 60437
Instrument transformers	Instrument transformers - Part 1: General requirements Temperature-rise test	TS IEC 61869-1 IEC 61869-1 Clause 7.2.2 Clause 7.2.2
Instrument transformers	Instrument transformers - Part 5: Additional requirements for capacitor voltage transformers Measurement of capacitance and dielectric dissipation factor	TS IEC 61869-5 IEC 61869-5 Clause 7.4.3 Clause 7.4.3
Surge arresters	Surge arresters - Part 4: Metal-oxide surge arresters without gaps for a.c. systems Wet Test Procedure	TS EN 60099-4 IEC 60099-4 Clause 8.2.5 Clause 8.2.5
Surge arresters	Surge arresters - Part 4: Metal-oxide surge arresters without gaps for a.c. systems Lightning impulse voltage test	TS EN 60099-4 IEC 60099-4 Clause 8.2.6 Clause 8.2.6
Surge arresters	Surge arresters - Part 4: Metal-oxide surge arresters without gaps for a.c. systems Switching impulse voltage test	TS EN 60099-4 IEC 60099-4 Clause 8.2.7 Clause 8.2.7
Surge arresters	Surge arresters - Part 4: Metal-oxide surge arresters without gaps for a.c. systems Power-Frequency Voltage Test	TS EN 60099-4 IEC 60099-4 Clause 8.2.8 Clause 8.2.8
Surge arresters	Surge arresters - Part 4: Metal-oxide surge arresters without gaps for a.c. systems Radio Interference Voltage (RIV) Test	TS EN 60099-4 IEC 60099-4 Clause 8.14 Clause 8.14
High-voltage switchgear and controlgear	High-voltage switchgear and controlgear - Part 1: Common specifications for alternating current switchgear and controlgear Additional tests on auxiliary and control circuits - Functional tests	TS EN 62271-1 IEC 62271-1 Clause 7.10.2 Clause 7.10.2
High-voltage switchgear and controlgear	High-voltage switchgear and controlgear - Part 1: Common specifications for alternating current switchgear and controlgear Additional tests on auxiliary and control circuits - Environmental tests	TS EN 62271-1 IEC 62271-1 Clause 7.10.4 (Except 7.10.4.4) Clause 7.10.4 (Except 7.10.4.4)

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