



TURKISH ACCREDITATION AGENCY

ACCREDITATION CERTIFICATE

As a Testing Laboratory

LVT TEST LABORATUVARLARI LİMİTED ŞİRKETİ

Central Address: SARAYOSB MAH. VECİHİ HÜRKUŞ BLV. No:24/ KAHRAMANKAZAN/ANKARA 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-0341-T

Accreditation Date : 21.07.2009

Revision Date / Number : 12.03.2025 / 18

This certificate shall remain in force until **22.02.2026**, 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.

This document has been signed by Gülden Banu Müderrisoğlu with a secure electronic signature in accordance with the electronic signature law numbered 5070. Use the QR code to verify the e-signed document.

 Türk Ak Test TS EN ISO/IEC 17025 AB-0341-T	LVT TEST LABORATUVARLARI LİMİTED ŞİRKETİ	
	Accreditation Nr: AB-0341-T Revision Nr: 18 Date: 12.03.2025	
Testing Laboratory		
Address : SARAYOSB MAH. VECİHİ HÜRKUŞ BLV. No:24/ KAHRAMANKAZAN/ANKARA Ankara / Türkiye		Phone : - Fax : - Email : arslanli@lvt.com.tr Website : www.lvt.com.tr

Electrical,Electronic and IT Products and Devices		
Tested Materials / Products	Name of Test	Testing Method (National, International Standards, In-house Methods)
Empty enclosures	Empty enclosures for low-voltage switchgear and controlgear assemblies - General requirements Static loads Lifting Mechanical operation Axial loads of metal inserts Degree of protection against external mechanical impacts (IK Code) Degree of protection (IP Code) Thermal stability Resistance to normal heat Resistance to abnormal heat and fire due to internal electric effect Marking Effective earth continuity between the exposed-conductive-parts of the class I enclosure and the protective circuit Resistance to corrosion Dielectric strength Resistance to ultra-violet (UV) radiation Thermal power dissipation capability	TS EN 62208 EN 62208 IEC 62208



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Low-voltage switchgear and controlgear assemblies	Low-voltage switchgear and controlgear assemblies - Part 4: Particular requirements for assemblies for construction sites (ACS) Short-circuit withstand strength (Measurement range: 0-100 kA/1 sec, 0-40 kA/3 sec) Short-circuit withstand strength of the protective circuit (Measurement range: 0-100 kA/1 sn, 0-40 kA/3 sec) Temperature-rise Dielectric properties Clearances and creepage distances Marking Mechanical operation Resistance to corrosion Degree of protection of assemblies (IP Code) Verification of the mechanical strength Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects Protection against electric shock and integrity of protective circuits Thermal stability Lifting Terminals for external conductors Internal electrical circuits and connections Incorporation of switching devices and components Resistance to ultraviolet (UV) radiation Verification of the resistance corrosion in a heavily polluted atmosphere Electromagnetic compatibility (EMC) Excluded: Shock Test Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio- frequency, electromagnetic eld immunity test exclude Radiated emission	TS EN 61439-4 EN 61439-4 IEC 61439-4 TS EN IEC 61439-1 IEC 61439-1 EN 61439-1 Excluded: Clause 10.2.6.3:Shock Test Clause J.10.12.2.2:61000-4-3:Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic eld immunity test exclude ClauseJ.9.4.4.2:EN 55011:Radiated emission
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Low-voltage switchgear and controlgear assemblies	Low-voltage switchgear and controlgear assemblies - Part 3: Distribution boards intended to be operated by ordinary persons (DBO) Short-circuit withstand strength (Measurement range: 0-100 kA/1 sec., 0-40 kA/3 sec.) Short-circuit withstand strength of the protective circuit (Measurement range: 0-100 kA/1 sec., 0-40 kA/3 sec.) Temperature-rise Dielectric properties Clearances and creepage distances Marking Mechanical operation Resistance to corrosion Degree of protection of assemblies (IP Code) Verificaiton of protection against mechanical impact (IK Code) Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects Protection against electric shock and integrity of protective circuits Thermal stability Lifting Terminals for external conductors Internal electrical circuits and connections Incorporation of switching devices and components Resistance to ultraviolet (UV) radiation Electromagnetic compatibility (EMC) Excluded: Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio- frequency, electromagnetic eld immunity test exclude Radiated emission	TS EN 61439-3 EN 61439-3 IEC 61439-3 TS EN IEC 61439-1 IEC 61439-1 EN 61439-1 Excluded: Clause J.10.12.2.2 ClauseJ.9.4.4.2
Low-voltage switchgear and controlgear assemblies	Low-voltage switchgear and controlgear assemblies - Part 2: Power switchgear and controlgear assemblies Short-circuit withstand strength (Measurement range: 0-100 kA/1 sec., 0-40 kA/3 sec.) Short-circuit withstand strength of the protective circuit (Measurement range: 0-100 kA/1 sec., 0-40 kA/3 sec.) Temperature-rise Dielectric properties Clearances and creepage distances	TS EN 61439-2 EN 61439-2 IEC 61439-2 TS EN IEC 61439-1 IEC 61439-1 EN 61439-1
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Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects

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Protection against electric shock and safety of protection suits



Test
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Testing Laboratory

Thermal stability

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Lifting
Terminals for external conductors

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Internal electrical circuits and connections

Incorporation of switching devices and components

Resistance to ultraviolet (UV) radiation

Electromagnetic compatibility (EMC)

Excluded:

Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio- frequency, electromagnetic eld immunity test exclude

Radiated emission





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Excluded:
Clause J.10.12.2.2
Clause J.9.4.4.2

Low-voltage switchgear and controlgear assemblies

Low-voltage switchgear and controlgear assemblies - Part 1: General rules

TS EN 61439-1
EN 61439-1
IEC 61439-1

Short-circuit withstand strength
(Measurement range: 0-100 kA/1 sec., 0-40 kA/3 sec.)

Short-circuit withstand strength of the protective circuit
(Measurement range: 0-100 kA/1 sec., 0-40 kA/3 sec.)

Temperature-rise

Dielectric properties

Clearances and creepage distances

Marking

Mechanical operation

Resistance to corrosion

Degree of protection of assemblies (IP Code)

Verificaiton of protection against mechanical impact (IK Code)

Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects

Protection against electric shock and integrity of protective circuits

Thermal stability

Lifting

Terminals for external conductors

Internal electrical circuits and connections

Incorporation of switching devices and components

Resistance to ultraviolet (UV) radiation

Electromagnetic compatibility (EMC)

Excluded:
Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio- frequency, electromagnetic eld immunity test exclude
Radiated emission



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Excluded:
Clause J.10.12.2.2
Clause J.9.4.4.2



Accreditation Scope

Rated short-circuit making capacity

(Measurement range:0-100 kA/1 sec. 0-40 kA/3 sec)

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Rated conditional short-circuit current

(Measurement range:0-100 kA/1 sec.0-40 kA/3 sec)

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Strength of actuator mechanism



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Testing Laboratory

Overload test

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Clearances and creepage distances

Degrees of protection of enclosed equipment

EMC Tests

Excluded:

Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio- frequency, electromagnetic eld immunity test exclude
Radiated emission

Excluded:

Table 6

Table 7



Accreditation Scope

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Boxes and enclosures	Boxes and enclosures for electrical accessories for household and similar fixed electrical installations - Part 23: Particular requirements for floor boxes and enclosures	TS EN 60670-23 EN 60670-23 IEC 60670-23
Boxes and enclosures	Boxes and enclosures for electrical accessories for household and similar fixed electrical installations - Part 22: Particular requirements for connecting boxes and enclosures	TS EN 60670-22 EN 60670-22 IEC 60670-22
Boxes and enclosures	Boxes and enclosures for electrical accessories for household and similar fixed electrical installations - Part 21: Particular requirements for boxes and enclosures with provision for suspension means	TS EN 60670-21 EN 60670-21 IEC 60670-21
Boxes and enclosures	Boxes and enclosures for electrical accessories for household and similar fixed electrical installations - Part 1: General requirements	TS EN 60670-1 EN 60670-1 IEC 60670-1
enclosures	Degrees of protection provided by enclosures (IP code) Test conditions for first characteristic numerals 1, 2, 3, 4 IP1X IP2X IP3X IP4X	TS 3033 EN 60529 EN 60529 IEC 60529 Clause 13.2 (*)In the laboratory temporary or mobile facilities
Mechanical structures for electronic equipment	Mechanical structures for electrical and electronic equipment - Tests for IEC 60917 and IEC 60297 series - Part 1: Environmental requirements, test setups and safety aspects Excluded: Mechanical dynamic load tests Mechanical dynamic load tests (vibration and shock tests)	TS EN 61587-1 IEC 61587-1 EN 61587-1 Excluded: Caluse 7.5 Clause 8.4



Dielectric tests on auxiliary and control circuits

Accreditation Scope



Test
TS EN ISO/IEC 17025
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Power-frequency voltage tests
(Measurement range: Maks.AC 50 Hz 100 kV)

Verification of the IP coding

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Verification of the IK coding

Testing Laboratory

Mechanical operation test at ambient air temperature

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Auxiliary and control circuits Functional tests

Auxiliary and control circuits Environmental tests

Electromagnetic compatibility tests (EMC)

Excluded:

Ripple on d.c. input power port immunity test

Damped oscillatory wave immunity test

Radiated emission

Vibration test





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Excluded:
Clause 7.9.1.2
Clause 7.10.4.5
Clause 7.9.2.3
Clause 7.9.3.2

High-voltage switchgear and controlgear

High-voltage switchgear and controlgear - Part 102: Alternating current disconnectors and earthing switches

Continuous current tests

Low- and high-temperature tests

Short-time withstand current and peak withstand current tests
(Measurement range: 0-100 kA/1 sec., 0-40 kA/3 sec.)

Dielectric tests

Lightning impulse voltage tests
(Measurement range: (1,2/50 µs 200 kV)

Dielectric tests on auxiliary and control circuits

Power-frequency voltage tests
(Measurement range: Maks.AC 50 Hz 100 kV)

Resistance measurement

Operating and mechanical endurance tests

Operation under severe ice conditions

Verification of the IP coding

Verification of the IK coding

Electromagnetic compatibility tests (EMC)

Excluded:
Ripple on d.c. input power port immunity test
Damped oscillatory wave immunity test
Radiated emission
Vibration test

TS EN 62271-102
EN 62271-102
IEC 62271-102

TS EN 62271-1
EN 62271-1
IEC 62271-1





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Clause 7.10.4.5
Clause 7.9.2.3
Clause 7.9.3.2





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Dielectric tests on auxiliary and control circuits
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Power-frequency voltage tests
(Measurement range: Maks.AC 50 Hz 100 kV)
Addition Nr: AB-0341-T
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Resistance measurement

Testing Laboratory

Mechanical operation tests

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Verification of the IP coding

Auxiliary and control circuits Functional tests

Auxiliary and control circuits Environmental tests

Electromagnetic compatibility tests (EMC)

Excluded:
Ripple on d.c. input power port immunity test
Damped oscillatory wave immunity test
Radiated emission
Vibration test

TS EN 62271-1
EN 62271-1
IEC 62271-1

Excluded:
Clause 7.9.1.2
Clause 7.10.4.5
Clause 7.9.2.3
Clause 7.9.3.2

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 62271-200
EN 62271-200

Continuous current tests

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Short-time withstand current and peak withstand current tests
(Measurement range: 0-100 kA/1 sec., 0-40 kA/3 sec.)



Accreditation Scope

Dielectric tests

Lightning impulse voltage tests

(Measurement range: 1.2/50 μ s 200 kV)

Dielectric tests on auxiliary and control circuits

Power-frequency voltage tests

(Measurement range: Maks.AC 50 Hz 100 kV)

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Revision Nr: 18 Date: 12.03.2025



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Auxiliary and control circuits Functional tests

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Resistance measurement

Mechanical operation tests

Verification of the IP coding

Verification of the IK coding

Electromagnetic compatibility tests (EMC)

Excluded:

Ripple on d.c. input power port immunity test

Damped oscillatory wave immunity test

Radiated emission

Vibration test

IEC 62271-200

TS EN 62271-1

EN 62271-1

IEC 62271-1

Excluded:

Clause 7.9.1.2



Accreditation Scope



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Clause 7.10.4.5
Clause 7.9.2.3
Clause 7.9.3.2

High-voltage switchgear and controlgear

High-voltage switchgear and controlgear - Part 202: AC prefabricated substations for rated voltages above 1 kV and up to and including 52 kV

Short-time withstand current and peak withstand current tests
(Measurement range: 0-100 kA/1 sec., 0-40 kA/3 sec.)

Dielectric tests

Lightning impulse voltage tests
(Measurement range: (1,2/50 μ s 200 kV)

Dielectric tests on auxiliary and control circuits

Power-frequency voltage tests
(Measurement range: Maks.AC 50 Hz 100 kV)

Resistance measurement

Verification of the IP coding

Verification of the IK coding

Auxiliary and control circuits Functional tests

Auxiliary and control circuits Environmental tests

Electromagnetic compatibility tests (EMC)

Excluded:

Ripple on d.c. input power port immunity test
Damped oscillatory wave immunity test
Radiated emission
Vibration test

TS EN 62271-202
EN 62271-202
IEC 62271-202

TS EN 62271-1
EN 62271-1
IEC 62271-1

Excluded:
Clause 7.9.1.2
Clause 7.10.4.5
Clause 7.9.2.3
Clause 7.9.3.2



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Lightning Protection System Components	Lightning Protection System Components (LPSC) - Part 1: Requirements for connection components Conditioning and ageing	TS EN 62561-1 EN 62561-1 IEC 62561-1 Clause 6.5 (Included Annex D)
Lightning protection system components	Lightning protection system components (LPSC) - Part 2: Requirements for conductors and earth electrodes Environmental tests	TS EN 62561-2 EN 62561-2 IEC 62561-2 Clause 5.2.4 (Annex A) Clause 5.3.5 (Annex A) Clause 5.4.3 (Annex A)
Instrument transformers	Instrument transformers - Part 2: Additional requirements for current transformers Short-circuit withstand strength (Measurement range: 0-100 kA/1 sec., 0-40 kA/3 sec.) Temperature-rise test Power-frequency voltage withstand tests on primary terminals Tests for accuracy(For devices with rated input current up to 2000A)	TS EN 61869-2 EN 61869-2 Clause 7.2.201 Clause 7.2.2 Clause 7.3.1 Clause 7.2.6
Low-voltage switchgear and controlgear assemblies	Low-voltage switchgear and controlgear assemblies - Part 5: Assemblies for power distribution in public networks Short-circuit withstand strength (Measurement Range: 0-100 kA/1 sec., 0-40 kA/3 sec.) Short-circuit withstand strength of the protective circuit (Measurement range: 0-100 kA/1 sec., 0-40 kA/3 sec.) Temperature-rise Dielectric properties Clearances and creepage distances Marking Mechanical operation Resistance to corrosion Degree of protection of assemblies (IP Code) Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects Protection against electric shock and integrity of protective circuits Thermal stability Lifting Terminals for external conductors Internal electrical circuits and connections Incorporation of switching devices and components Resistance to ultraviolet (UV) radiation Verification of mechanical strength Verification of category of flammability Electromagnetic compatibility (EMC)	TS EN 61439-5 EN 61439-5 IEC 61439-5 TS EN IEC 61439-1 IEC 61439-1 EN 61439-1
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Radiated emission
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Low-voltage switchgear and controlgear assemblies	Low-voltage switchgear and controlgear assemblies - Part 6: Busbar trunking systems (busways) Short-circuit withstand strength (Measurement Range: 0-100 kA/1 sec., 0-40 kA/3 sec.) Short-circuit withstand strength of the protective circuit (Measurement range: 0-100 kA/1 sec., 0-40 kA/3 sec.) Verification of temperature rise Dielektrik Özellikler Dielectric properties Clearances and creepage distances Marking Mechanical operation Resistance to corrosion Degree of protection of assemblies Mechanical impact Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects Protection against electric shock and integrity of protective circuits Verification of thermal stability of enclosures Lifting Terminals for external conductors Internal electrical circuits and connections Incorporation of switching devices and components Resistance to ultraviolet (UV) radiation Ability to withstand mechanical loads Thermal cycling test Electromagnetic compatibility (EMC) Excluded: Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio- frequency, electromagnetic eld immunity test exclude Radiated emission	TS EN 61439-6 EN 61439-6 IEC 61439-6 TS EN IEC 61439-1 IEC 61439-1 EN 61439-1 Excluded: Clause J.10.12.2.2 ClauseJ.9.4.4.2
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Electric Vehicle Conductive Charging System	Electric Vehicle Conductive Charging System - Part 21-2: Electric Vehicle Requirements For Conductive Connection To An AC/DC Supply - EMC Requirements For Off Board Electric Vehicle Charging Systems Excluded: Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio- frequency, electromagnetic eld immunity test 55011 Radiated emission IEC 61000-3-12:Limits for harmonic currents produced by equipment connected to public low-voltage systems with input current >16 A and ≤ 75 A per phase IEC 61000-3-11:Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems - Equipment with rated current ≤ 75 A and subject to conditional connect CPT port Wired network port or signal/control port Radiated disturbance test for keyless entry Voltage transient disturbances from DC charging equipment	TS EN IEC 61851-21-2 EN IEC 61851-21-2 Excluded: Clause 5.1 Clause 6.3.5 Clause 6.2.2 Clause 6.2.3 Clause 6.3.3 Clause6.3.4 Annex B Annex D
Enclosed low-voltage switchgear and controlgear assemblies	Enclosed low-voltage switchgear and controlgear assemblies - Guide for testing under conditions of arcing due to internal fault Internal Arc Test (Measurement range: 0-100 kA / 1 sec.)	IEC TR 61641
Low-voltage switchgear and controlgear assemblies - Part 7: Assemblies for specific applications such as marinas, camping sites, market squares, electric vehicle charging stations Short-circuit withstand strength (Measurement Range: 0-100 kA/1 sec., 0-40 kA/3 sec.) Short-circuit withstand strength of the protective circuit (Measurement range: 0-100 kA/1 sec., 0-40 kA/3 sec.) Temperature-rise Dielectric properties Clearances and creepage distances Marking Mechanical operation	Low-voltage switchgear and controlgear assemblies - Part 7: Assemblies for specific applications such as marinas, camping sites, market squares, electric vehicle charging stations electrical vehicles charging stations	TS EN IEC 61439-7 EN 61439-7 IEC 61439-7 TS EN IEC 61439-1 IEC 61439-1 EN 61439-1
This document has been signed by Gülden Banu Müderrisoğlu with a secure electronic signature in accordance with the electronic signature law numbered 5070. Use the QR code to verify the e-signed document.		



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LVT TEST LABORATUVARLARI LIMITED ŞİRKETİ

Accreditation Nr: AB-0341-T
Revision Nr: 18 Date: 12.03.2025

Testing Laboratory

Address :
SARAYOSB MAH. VEÇİHİ HÜRKUŞ BLV. No:24/
KAHRAMANKAZAN/ANKARA / Türkiye

Phone : -
Fax : -
Email : arslanli@lvt.com.tr
Website : www.lvt.com.tr

Resistance to corrosion

Degree of protection of assemblies (IP Code)

Verifaicon of protection against mechanical impact (IK Code)

Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects

Protection against electric shock and integrity of protective circuits

Thermal stability

Lifting

Terminals for external conductors

Internal electrical circuits and connections

Incorporation of switching devices and components

Resistance to ultraviolet (UV) radiation

Verification of mechanical strength for assemblies

Electromagnetic compatibility (EMC)

Excluded:

Electromagnetic compatibility (EMC) - Part 4-3:
Testing and measurement techniques - Radiated,
radio- frequency, electromagnetic eld immunity
test exclude
Radiated emission
Shock test for mobile and transportable
assembly

Excluded:

Clause J.10.12.2.2
Clause J.9.4.4.2
Clause 10.2.701.7

Low-voltage switchgear and controlgear

Low-voltage switchgear and controlgear - Part 5-1: Control circuit
devices and switching elements - Electromechanical control circuit
devices

TS EN 60947-5-1
EN 60947-5-1
IEC 60947-5-1

Arc welding equipment

Arc welding equipment - Part 1: Welding power sources

TS EN 60974-1
EN 60974-1
IEC 60974-1

(*)In the laboratory temporary or mobile facilities



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Testing Laboratory		
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Safety requirements for electrical equipment for measurement, control, and laboratory use	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 1: General requirements	TS EN 61010-1 EN 61010-1 IEC 61010-1 (*)In the laboratory temporary or mobile facilities
Electrical equipment for measurement, control and laboratory use	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements Excluded: TS EN IEC 61000-4-3 Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test Radiated emission	TS EN IEC 61326-1 EN IEC 61326-1 IEC 61326-1 Excluded: Clause 6.2 Clause 7.2
Electromagnetic compatibility	Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments Excluded: Radiated Emission	TS EN 61000-6-4 EN 61000-6-4 IEC 61000-6-4 Excluded: Clause 9
Electromagnetic compatibility	Electromagnetic compatibility (EMC) -- Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments	TS EN 61000-6-3 EN 61000-6-3 IEC 61000-6-3
Electromagnetic compatibility	Electromagnetic compatibility (EMC) -- Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests	TS EN 61000-4-11 EN 61000-4-11 IEC 61000-4-11



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Testing Laboratory		
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Electromagnetic compatibility (EMC)	Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test (Measurement range:power lines: 0.5, 1, 2, 4 kV; 1.2/50 µs) (Excluded communication lines)	TS EN 61000-4-5 EN 61000-4-5 IEC 61000-4-5
Electromagnetic compatibility (EMC)	Electromagnetic compatibility (EMC) - Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test (Measurement range:1 A/m, 3 A/m, 10 A/m, 30A/m, 60A/m)	TS EN 61000-4-8 EN 61000-4-8 IEC 61000-4-8
Electromagnetic compatibility (EMC)	Electromagnetic compatibility (EMC) -- Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields (Measurement range :Frequency range 0.15 MHz – 230 MHz ,level up to 10 V)	TS EN 61000-4-6 EN 61000-4-6 IEC 61000-4-6
Electromagnetic compatibility (EMC)	Electromagnetic compatibility (EMC) -- Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test (Measurement range power lines 0,25 – 4 kV, 2,5 – 5 – 100 kHz; For data lines:0.25 – 2 kV, 2,5 – 5 – 100 kHz)	TS EN 61000-4-4 EN 61000-4-4 IEC 61000-4-4
Electromagnetic compatibility	Electromagnetic compatibility (EMC) -- Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test Discharge levels Contact:2, 4, 6, 8 kV Air:2, 4, 8, 15 kV	TS EN 61000-4-2 EN 61000-4-2 IEC 61000-4-2
Requirements for household appliances, electric tools and similar apparatus	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2: Immunity - Product family standard Excluded: Radio frequency electromagnetic fields	TS EN 55014-2 EN 55014-2 CISPR 14-2 Excluded: Clause 5.5



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Industrial, scientific and medical equipment	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement Measurement range :Conducted disturbances(150 kHz 30 MHz)	TS EN 55011 EN 55011 CISPR 11
	Excluded: Radiated emission	Excluded: Clause 7.7.3
Household and similar electrical appliances	Household and similar electrical appliances – Safety - Part 1: General requirements	TS EN 60335-1 EN 60335-1 IEC 60335-1
	Excluded: TS EN IEC 61000-4-3 Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test Moving supply cord Automatic cord reels Rubber aging resistance Flammability test TS EN 61000-4-13 Testing and measurement techniques - Harmonics and interharmonics including mains signalling at a.c. power port, low frequency immunity tests	Excluded: Clause 19.11.4.2 Clause 25.14 Clause 22.16 Clause 22.32 Clause 30.2.1 Clause 19.11.4.7
Electrical equipment of machines	Safety of machinery - Electrical equipment of machines - Part 1: General requirements	TS EN 60204-1 EN 60204-1 IEC 60204-1
		(*)In the laboratory temporary or mobile facilities



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Medical electrical equipment	Medical electrical equipment - Part 1: General requirements for basic safety and essential performance Excluded: Lasers Protection against HAZARDS of ignition of flammable anaesthetic mixtures	TS EN 60601-1 EN 60601-1 IEC 60601-1 Excluded: Clause 10.4 Annex G
Medical Electrical Equipment	Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance - Collateral Standard: Electromagnetic disturbances - Requirements and tests Excluded: Radio frequency electromagnetic fields Radiated emission	TS EN 60601-1-2 EN 60601-1-2 IEC 60601-1-2 Excluded: Clause 8.9 Clause 7.3
Arc Welding Equipment	Arc welding equipment - Part 10: Electromagnetic compatibility (EMC) requirements Excluded: TS EN IEC 61000-4-3 Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test Radiated emission Limits for harmonic currents produced by equipment connected to public low-voltage systems with input current >16 A and ≤ 75 A per phase Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems - Equipment with rated current ≤ 75 A and subject to conditional connection	TS EN 60974-10 EN 60974-10 IEC 60974-10 Excluded: Clause 7 Clause 6.3 Clause 6.3.4
Arc welding equipment	Arc welding equipment - Part 1: Welding power sources	TS EN 60974-1 EN 60974-1 IEC 60974-1



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Luminaires	Luminaires - Part 2-5: Particular requirements – Floodlights Excluded: Photobiological hazards	TS EN 60598-2-5 EN 60598-2-5 IEC 60598-2-5 TS EN 60598-1 EN 60598-1 IEC 60598-1 Excluded: Clause 4.24
Luminaires	Luminaires - Part 2-4: Particular requirements - Portable general purpose luminaires Excluded: Photobiological hazards	TS EN 60598-2-4 EN 60598-2-4 IEC 60598-2-4 TS EN 60598-1 EN 60598-1 IEC 60598-1 Excluded: Clause 4.24
Luminaires	Luminaires - Part 2-3: Particular requirements - Luminaires for road and street lighting	TS 8700 EN 60598-2-3 EN 60598-2-3 IEC 60598-2-3
Luminaires	Luminaires - Part 2-2: Particular requirements - Recessed luminaires	TS EN 60598-2-2 EN 60598-2-2 IEC 60598-2-2



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Address : SARAYOSB MAH. VECİHİ HÜRKUŞ BLV. No:24/ KAHRAMANKAZAN/ANKARA Ankara / Türkiye	Phone : - Fax : - Email : arslanli@lvt.com.tr Website : www.lvt.com.tr	

Luminaires	Luminaires - Part 2-1: Particular requirements - Fixed general purpose luminaires	TS 8698 EN 60598-2-1 EN 60598-2-1 IEC 60598-2-1 TS EN 60598-1 EN 60598-1 IEC 60598-1
	Excluded: Photobiological hazards	Excluded: Clause 4.24
Luminaires	Luminaires - Part 1: General requirements and tests	TS EN 60598-1 EN 60598-1 IEC 60598-1
		Excluded: Clause 4.24
Plugs and socket-outlets for household and similar purposes	Plugs and socket-outlets for household and similar purposes - Part 1: General requirements	TS IEC 60884-1+A1+A2 IEC 60884-1+A1+A2
Final Product	Fire hazard testing - Part 11-5: Test flames - Needle-flame test method - Apparatus, confirmatory test arrangement and guidance	TS EN 60695-11-5 EN 60695-11-5 IEC 60695-11-5
Final Product	Fire hazard testing – Part 2-11: Glowing/hot-wire based test methods – Glow-wire flammability test method for end products (GWEPT)	TS EN 60695-2-11 EN 60695-2-11 IEC 60695-2-11
Electrotechnical products	Environmental testing - Part 2-2: Tests - Test B: Dry heat	TS EN 60068-2-2 IEC 60068-2-2 EN 60068-2-2
Electrotechnical products	Environmental testing - Part 2-1: Tests - Test A: Cold	TS EN 60068-2-1 IEC 60068-2-1 EN 60068-2-1
Enclosures	Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code)	TS EN 62262 IEC 62262 EN 62262



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Low-voltage power supplies	Low-voltage power supplies, d.c. output - Part 3: Electromagnetic compatibility (EMC) Excluded: TS EN IEC 61000-4-3 Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test Radiated Emission	TS EN 61204-3 EN 61204-3 IEC 61204-3 Excluded: Clause 7.2 Clause 6.4
Equipment for general lighting purposes	Equipment for general lighting purposes - EMC immunity requirements All tests Excluded: TS EN IEC 61000-4-3 Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test	TS EN 61547 EN 61547 IEC 61547 Excluded: Clause 5.3
Electromagnetic compatibility (EMC)	Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection	TS EN 61000-3-3 EN 61000-3-3 IEC 61000-3-3
Electromagnetic compatibility	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)	TS EN 61000-3-2 EN 61000-3-2 IEC 61000-3-2
Multimedia equipment	Electromagnetic compatibility of multimedia equipment - Emission Requirements	TS EN 55032 EN 55032



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Audio/video, information and communication technology equipment	Audio/video, information and communication technology equipment - Part 1: Safety requirements Excluded: Radiation UV Radiation Insulated winding wires for use without interleaved insulation Limited short-circuit test Tests for resistance to heat and fire Mechanical strength of CRTs and protection against the effects of implosion	TS EN 62368-1 IEC 62368-1 EN 62368-1 Excluded: Clause 10 Annex C Annex J Annex R Annex S Annex U
Rotating electrical machines	Rotating electrical machines - Part 1: Rating and performance	TS EN 60034-1 EN 60034-1 IEC 60034-1
Multimedia Equipment	Electromagnetic compatibility of multimedia equipment – Immunity Requirements Excluded: Immunity requirements for analogue/digital data ports TS EN IEC 61000-4-3 Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test	TS EN 55035 EN 55035 CISPR 35 Excluded: Table 2 Clause 5
Final product	Fire hazard testing - Part 11-10: Test flames - 50 W horizontal and vertical flame test methods	TS EN 60695-11-10 EN 60695-11-10 IEC 60695-11-10
Mechanical structures for electronic equipment	Mechanical structures for electronic equipment - Tests for IEC 60917 and IEC 60297 - Part 3: Electromagnetic shielding performance tests for cabinets and subracks	TS EN 61587-3 IEC 61587-3 EN 61587-3
Low-voltage fuses	Low-voltage fuses - Part 1: General requirements All tests Verification of the breaking capacity (Measurement range: Maks AC 50 Hz, 420 V, 100kA) Excluded Verification of non-deterioration of contacts Mechanical and miscellaneous tests	TS EN 60269-1 EN 60269-1 IEC 60269-1 Excluded Madde 8.10 Madde 8.11



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Semiconductor Converters	Semiconductor converters - General requirements and line commutated converters - Part 1-1: Specification of basic requirements	TS EN 60146-1-1 EN 60146-1-1 IEC 60146-1-1
Electrical Devices Used in Houses and Similar Places Electrical Devices Used in Houses and Similar Places	Household and similar electrical appliances- Safety –Part 2 – 65: Particular requirements for air – cleaning appliances	TS EN 60335-2-65 IEC 60335-2-65 EN 60335-2-65
Medical Electrical Equipment	Medical electrical equipment - Part 1-11: General requirements for basic safety and essential performance - Collateral Standard: Requirements for medical electrical equipment and medical electrical systems used in the home healthcare environment Excluded: Continuous operating conditions Requirements for mechanical strength for nontransit-operable me equipment requirements for mechanical strength for transit-operable me equipment(a,b,c)	TS EN 60601-1-11 EN 60601-1-11 IEC 60601-1-11 Excluded: Clause 4.2.3.1 Clause 10.1.2 Clause 10.1.3a Clause 10.1.3b Clause 10.1.3c
Safety requirements for electrical equipment for measurement, control, and laboratory use	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-040: Particular requirements for sterilizers and washer-disinfectors used to treat medical materials	TS EN 61010-2-40 EN 61010-2-40 IEC 61010-2-40



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Low-voltage fuses	<p>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</p> <p>All tests Verificaiton of the breaking capacity (Measurement range:Maks AC 50 Hz, 420 V, 100kA)</p> <p>Excluded Verification of non-deterioration of contacts Mechanical and miscellaneous tests</p>	<p>TS HD 60269-2 IEC 60269-2</p> <p>Excluded: Clause 8.10 Clause 8.11</p>
Electrotechnical Items	Environmental testing - Part 2-11: Tests - Test Ka: Salt mist	<p>TS EN 60068-2-11 IEC 60068-2-11 EN 60068-2-11</p>
Electrotechnical products	Environmental testing - Part 2-14: Tests - Test N: Change of temperature	<p>TS EN 60068-2-14 IEC 60068-2-14 EN 60068-2-14</p>
Electrotechnical products	Environmental testing - Part 2-30: Tests - Test Db: Damp heat, cyclic (12 h + 12 h cycle)	<p>TS EN 60068-2-30 IEC 60068-2-30 EN 60068-2-30</p>
Electrotechnical Items	Environmental testing - Part 2-52: Tests - Test Kb: Salt mist, cyclic (sodium chloride solution)	<p>TS EN 60068-2-52 IEC 60068-2-52 EN 60068-2-52</p>
Insulators	<p>Insulators - Tests on indoor post insulators of organic material for systems with nominal voltages greater than 1 000 V up to but not including 300 kV</p> <p>Temperature cycle test</p>	<p>TS EN 60660 EN 60660 IEC 60660</p> <p>Clause 3.13</p>



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Electromagnetic compatibility	Electromagnetic compatibility (EMC) - Part 6-1: Generic standards; Immunity for residential, commercial and light-industrial environments Excluded: TS EN IEC 61000-4-3 Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test	TS EN 61000-6-1 EN 61000-6-1 IEC 61000-6-1 Excluded: Clause 9
Electromagnetic compatibility	Electromagnetic compatibility (EMC) -- Part 6-2: Generic standards - Immunity for industrial environments Excluded: TS EN IEC 61000-4-3 Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test	TS EN 61000-6-2 EN 61000-6-2 IEC 61000-6-2 Excluded: Clause 9
enclosures	Degrees of protection provided by enclosures (IP code) Excluded: Test for second characteristic numeral 9 by high pressure and temperature water jetting(IPX9)	TS 3033 EN 60529 EN 60529 IEC 60529 Excluded: Clause 14.2.9
Low-voltage switchgear and controlgear assemblies	Electrical products- Dielectric tests	TS EN 61439-1 IEC 61439-1 TS EN 61439-2 IEC 61439-2 TS EN 61439-3 IEC 61439-3 TS EN 61439-4 IEC 61439-4 TS EN 60947-1 IEC 60947-1 TS EN 60947-2 IEC 60947-2 TS EN 60947-3 IEC 60947-3 TS EN 60947-4-1 IEC 60947-4-1 TS 5018 EN 60898-1 IEC 60898-1 (*) In the laboratory temporary or mobile facilities



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Low-voltage switchgear and controlgear assemblies	Electrical products-İmpuls withstand voltage tests	TS EN IEC 61439-1 IEC 61439-1 TS EN IEC 61439-2 IEC 61439-2 TS EN 61439-3 IEC 61439-3 TS EN 61439-4 IEC 61439-4 TS EN IEC 60947-1 IEC 60947-1 TS EN 60947-2 IEC 60947-2 TS EN IEC 60947-3 IEC 60947-3 TS EN IEC 60947-4-1 IEC 60947-4-1 TS EN 60898-1 IEC 60898-1 (*)In the laboratory temporary or mobile facilities
High-voltage switchgear and controlgear	Electrical products-Power frequency withstand voltage tests	TS EN 62271-102 IEC62271-102 TS EN 62271-105 IEC62271-105 TS EN 62271-1 IEC62271-1 TS EN 62271-100 IEC 62271-100 TS EN 62271-200 IEC62271-200 TS EN 62271-202 TS EN 62271-1 (*)In the laboratory temporary or mobile facilities

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Plastic and Rubber Products

Tested Materials / Products	Name of Test	Testing Method (National, International Standards, In-house Methods)
Conduit Systems	Conduit systems for cable management - Part 1: General requirements Classification Marking and documentation Dimensions Construction Mechanical Properties Electrical properties Thermal properties Fire hazard External influences Excluded: Compression test Tensile test	TS EN 61386-1 IEC 61386-1 EN 61386-1 Excluded: Clause 10.2 Clause 10.7
Conduit Systems	Part 21: Particular Requirements - Rigid Conduit Systems Excluded: Compression test Tensile test	TS EN IEC 61386-21 EN IEC 61386-21 IEC 61386-21 TS EN 61386-1 EN 61386-1 IEC 61386-1 Excluded: Clause 10.2 Clause 10.7
Conduit Systems	Part 22: Particular Requirements - Pliable Conduit Systems	TS EN 61386-22



