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(UNE-EN Standards, are the official versions of the corresponding edition of EN Standards)

SCOPE OF ACCREDITATION

ORMAZABAL CORPORATE TECHNOLOGY A.I.E.

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Is accredited by the **ENTIDAD NACIONAL DE ACREDITACIÓN**, according the criteria collected in EN ISO/IEC 17025:2005 (CGA-ENAC-LEC), for performing the following tests on:

Electrical Distribution Equipment

Category 0 (Tests in the permanent laboratory)

PRODUCT / TEST OBJECT	TEST	STANDARD / PROCEDURE
High-voltage/low voltage prefabricated substation	Dielectric tests: <ul style="list-style-type: none"> ▪ Power Frequency: up to 100 kV ▪ Lightning Impulse: up to 288 kV 	IEC 62271-202:2006. UNE-EN 62271-202:2007.
	Temperature-rise tests	
	Short-time and peak withstand current tests on main and earthing circuits: up to 80kA/3s	
	Internal arcing test: up to 40kA/1s	
	Degrees of Protection IP: from 2X up to 4X from X3 up to X6	IEC 60529 :2001 IEC 60529 :2003 CORR. IEC 60529 :2007 CORR.
	Degrees of Protection IK: from 06 up to 10	IEC 62262 :2002

Alternating current disconnectors and earthing switches	<p>Dielectric tests:</p> <ul style="list-style-type: none"> ▪ Power Frequency: up to 100 kV ▪ Lightning Impulse: up to 288 kV ▪ Partial discharge measurement: up to 100 kV and up to 2pC <p>Temperature-rise tests</p> <p>Measurement of the resistance of circuits</p> <p>Operating and mechanical endurance tests</p> <p>Short-time and peak withstand current tests on main and earthing circuits: up to 80kA</p> <p>Test to prove the short-circuit making performance of earthing switches: up to 40kA</p>	<p>IEC 62271-102:2001 IEC 62271-102: 2002 CORRIGENDUM 1 IEC 62271-102: 2003 CORRIGENDUM 2 IEC 62271-102: 2005 CORRIGENDUM 3 IEC 62271-102/A1: 2011 IEC 62271-102/A1: 2012 CORRIGENDUM 1</p> <p>UNE-EN 62271-102:2005 UNE-EN 62271-102:2005 ERRATUM 2011 UNE-EN 62271-102/A1:2012</p>
	<p>Degrees of Protection IP: from 2X up to 4X from X3 up to X6</p>	<p>IEC 60529 :2001 IEC 60529 :2003 CORR. IEC 60529 :2007 CORR.</p>
	<p>Degrees of Protection IK: from 06 up to 10</p>	<p>IEC 62262 :2002</p>
High-voltage switches for rated voltages above 1 kV and less than 52 kV	<p>Dielectric tests:</p> <ul style="list-style-type: none"> ▪ Power Frequency: up to 100 kV ▪ Lightning Impulse: up to 288 kV ▪ Partial discharge measurement: up to 100 kV and up to 2pC <p>Temperature-rise tests</p> <p>Measurement of the resistance of circuits</p> <p>Mechanical operating tests</p> <p>Short-time and peak withstand current tests on main and earthing circuits: up to 80kA</p> <p>Making and breaking tests: up to 2500MVA, 36kV</p>	<p>IEC 60265-1:1998 IEC 60265-1:2000 CORRIGENDUM IEC 62271-103:2011.</p> <p>UNE 60265-1:1999. UNE 60265-1:2005 CORRIGENDUM</p>
	<p>Degrees of Protection IP: from 2X up to 4X from X3 up to X6</p>	<p>IEC 60529 :2001 IEC 60529 :2003 CORR. IEC 60529 :2007 CORR.</p>
	<p>Degrees of Protection IK: from 06 up to 10</p>	<p>IEC 62262 :2002</p>

High-voltage Alternating current circuit-breakers	<p>Dielectric tests:</p> <ul style="list-style-type: none"> ▪ Power Frequency: up to 100 kV ▪ Lightning Impulse: up to 288 kV ▪ Partial discharge measurement: up to 100 kV and up to 2pC <p>Temperature-rise tests</p> <p>Measurement of the resistance of circuits</p> <p>Mechanical operating tests</p> <p>Short-time and peak withstand current tests: up to 80kA</p> <p>Making and breaking tests: up to 2500MVA, 36kV</p>	<p>IEC 62271-100:2008</p> <p>UNE-EN 62271-100:2003. UNE-EN 62271-100/A1:2004 UNE-EN 62271-100:2004 ERRATUM UNE-EN 62271-100/A2:2007 UNE-EN 62271-100:2011</p>
	Degrees of Protection IP: from 2X up to 4X from X3 up to X6	<p>IEC 60529 :2001 IEC 60529 :2003 CORR. IEC 60529 :2007 CORR.</p>
	Degrees of Protection IK: from 06 up to 10	IEC 62262 :2002
A.C. metal-enclosed switchgear and controlgear for rated voltages above 1 kV and up to and including 52 kV	<p>Dielectric tests:</p> <ul style="list-style-type: none"> ▪ Power Frequency: up to 100 kV ▪ Lightning Impulse: up to 288 kV ▪ Partial discharge measurement: up to 100 kV and up to 2pC <p>Temperature-rise tests</p> <p>Measurement of the resistance of circuits</p> <p>Mechanical operating tests</p> <p>Short-time and peak withstand current tests: up to 80kA</p> <p>Internal fault test: up to 40kA/1s</p>	<p>IEC 62271-200: 2003 IEC 62271-200: 2011.</p> <p>UNE-EN 62271-200:2005 UNE-EN 62271-200:2012.</p>
	Degrees of Protection IP: from 2X up to 4X from X3 up to X6	<p>IEC 60529 :2001 IEC 60529 :2003 CORR. IEC 60529 :2007 CORR.</p>
	Degrees of Protection IK: from 06 up to 10	IEC 62262 :2002

High-voltage switchgear and controlgear	<p>Dielectric tests:</p> <ul style="list-style-type: none"> ▪ Power Frequency: up to 100 kV ▪ Lightning Impulse: up to 288 kV ▪ Partial discharge measurement: up to 100 kV and up to 2pC 	<p>IEC 62271-1:2007 IEC 62271-1/A1:2011</p>
	Temperature-rise tests	<p>UNE-EN 62271-1:2009 UNE-EN 62271-1/A1:2011.</p>
	Measurement of the resistance of circuits	<p>UNE-EN 60694:1998. UNE-EN 60694:1999 CORRIGENDUM UNE-EN 60694/A1:2002 UNE-EN 60694/A2:2002</p>
	Mechanical operating tests	
	Short-time and peak withstand current tests: up to 80kA	
Degrees of Protection IP: from 2X up to 4X from X3 up to X6	<p>IEC 60529 :2001 IEC 60529 :2003 CORR. IEC 60529 :2007 CORR.</p>	
Degrees of Protection IK: from 06 up to 10	<p>IEC 62262 :2002</p>	
Power transformers	Routine tests	<p>IEC 60076-1:1993. IEC 60076-1/A1:1999 IEC 60076-1:1997 CORRIGENDUM 1 UNE-EN 60076-1:1998. UNE-EN 60076-1/A1:2001 UNE-EN 60076-1/A12:2002</p>
	Temperature-rise tests	<p>IEC 60076-2:1998. IEC 60076-2:1998 ERRATUM 2006 UNE-EN 60076-2:2011.</p>
	<p>Dielectric tests:</p> <ul style="list-style-type: none"> ▪ Separate source AC: up to 100kV ▪ Induced AC ▪ Lightning Impulse: up to 288kV 	<p>IEC 60076-3:2000. IEC 60076-3:2000 CORRIGENDUM 1 UNE-EN 60076-3:2002. UNE-EN 60076-3:2006 ERRATUM</p>
	Ability to withstand short circuit	<p>IEC 60076-5:2006 UNE-EN 60076-5:2002 UNE-EN 60076-5:2008</p>
	Degrees of Protection IP: from 2X up to 4X from X3 up to X6	<p>IEC 60529 :2001 IEC 60529 :2003 CORR. IEC 60529 :2007 CORR.</p>
	Degrees of Protection IK: from 06 up to 10	<p>IEC 62262 :2002</p>