

Annex to declaration of accreditation (scope of accreditation)
Normative document: EN ISO/IEC 17025:2017
Registration number: **L 020**

of **KEMA B.V.**
High Power Laboratory and High Voltage Laboratory

This annex is valid from: **23-06-2022** to **01-04-2026**

Replaces annex dated: **28-04-2021**

Location(s) where activities are performed under accreditation

Head Office

Klingelbeekseweg 195 - Building no. R10
6812 DE
Arnhem
The Netherlands

Location	Abbreviation/ location code
Klingelbeekseweg 195 - Building no. R11, R32 and B31 6812 DE Arnhem The Netherlands	ARN
IPKW Westervoortsedijk 73 6827 AV Arnhem The Netherlands	IPKW

No.	Material or product	Type of activity ¹	Internal reference number	Location
Dielectric test				
1	Electrical equipment	Power-frequency voltage test (AC) (≤ 900 kV, 45-500 Hz)	ISI-GSA-1227	ARN
2		DC voltage test (≤ 800 kV)		
3		Lightning impulse voltage test (LI) ($\leq 2,4$ MV)		
4		Switching impulse voltage test (SI) ($\leq 2,0$ MV)		

¹ If there is a referral to a code starting with NAW, NAP, EA or IAF, this concerns a scheme mentioned on the [RvA-BR010-lijst](#).
If no date or version number is mentioned for a normative document, the accreditation concerns the most current version of the document or scheme.

This annex has been approved by the Board of the
Dutch Accreditation Council, on its behalf,

J.A.W.M. de Haas

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No.	Material or product	Type of activity ¹	Internal reference number	Location
5	Electrical equipment	Test under wet conditions (AC / DC / LI / SI)	ISI-GSA-1227	ARN
6		Partial discharge measurement (all above noise level)		
7		Radio interference voltage measurement (all above noise level)		
8		Tan δ and capacitance measurement		
9		Impulse puncture test / Steep front-of-wave flashover test (≤ 400 kV)		
10		Corona measurement (any visible corona)		

Short-circuit test

11	Electrical equipment	Short-time withstand current and peak withstand current test (≤ 1200 kA _{peak})	ISI-GSA-1227	ARN
12		Ability to withstand short circuit / Short-circuit current tests / Short-time current tests (≤ 1200 kV and ≤ 400 kA)		
13		Short-circuit making and breaking tests / Interruption tests / Terminal fault test (≤ 1200 kV and ≤ 400 kA)		
14		Breaking tests / Interruption tests / Time current tests on fuses (≤ 245 kV and ≤ 400 kA)		
15		Inrush current withstand test / Discharge current test (≤ 600 kV and ≤ 200 kA)		
16		Short-line fault tests (≤ 1200 kV and ≤ 400 kA)		
17		Out-of-phase making and breaking tests (≤ 1200 kV and ≤ 400 kA)		
18		By-pass making and insertion tests (≤ 1200 kV and ≤ 400 kA)		
19		Time current tests on autorecloser (≤ 400 kA)		
20		Internal arc fault tests / Internal fault test (≤ 1200 kV and ≤ 400 kA)		
21		Power arc test on insulators (≤ 400 kA)		
22		Short-circuit tests on arrester (≤ 400 kA)		

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Switching test				
23	Electrical equipment	Switching making and breaking test ≤ 1200 kV	ISI-GSA-1227	ARN
24		Capacitive current switching tests ≤ 1200 kV		
25		Bus-transfer current switching tests ≤ 1200 kV		
26		Induced current switching tests ≤ 1200 kV		
27		Bus-charging current switching tests ≤ 1200 kV		
28		Inductive load switching tests ≤ 1200 kV		
29		Verification of coordination with short-circuit protection device ≤ 1200 kV		
30		Minimum tripping current test		
Accuracy test				
31	Electrical equipment	Tests for accuracy of instrument transformers (incl. LPIT's) (CT: continuous current ≤ 60 kA, 50-60 Hz) (CT: transient current ≤ 400 kA) (VT: ≤ 500 kV, 50-60 Hz)	ISI-GSA-1227	ARN
32		Measurement of voltage ratio and check of phase displacement on power transformers and reactors		
Environmental- and temperature test				
33	Electrical equipment	Climatic and environmental tests, ageing test, (-40 °C to +60 °C, 50-99% rel. humidity)	ISI-GSA-1227	ARN
34		Condensation test / Salt fog test / Tracking and erosion test		
35		Pollution test (≤ 350 kV)		
36		Temperature cycle test / Thermal shock test / Immersion test		

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37	Electrical equipment	Heating cycle test / Heating cycle voltage test / Long term stability test / Long duration test	ISI-GSA-1227	ARN
38		Temperature-rise test / Continuous current test / thermal stability test (≤ 25 kA, three-phase) (≤ 50 kA, single-phase)		
Material test				
39	Electrical equipment	Porosity test porcelain on insulators	ISI-GSA-1227	ARN
40		Water absorption test on insulators		
41		Water penetration test on cables (≤ 3 bar)		
42		Galvanizing test		
Mechanical test				
43	Electrical equipment	Pressure withstand test for gas-filled compartments (≤ 20 bar)	ISI-GSA-1227	ARN
44		Tensile test / mechanical test / (electro-)mechanical failing load test / verification of the locking system (≤ 500 kN)		
45		Impact test (Insulators: ≤ 10 Nm) (Cable accessories)		
46		Mechanical endurance/operation tests at ambient temperature / Low- and High-temperature tests (-40°C to +60°C)		
47		Operation during the application of rated static mechanical terminal loads (≤ 1000 kN)		
48		Thermal-mechanical performance test on insulators (≤ 300 kN; -50°C to +70°C)		
49		Test to verify the proper functioning of the position-indicating device		
50		Mechanical shock tests on fuses		

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51	Electrical equipment	Striker operation tests on fuses	ISI-GSA-1227	ARN
52		Cantilever load- and internal pressure test on insulators		
53		Mechanical test on instrument transformers		
54		Bending tests on cables		
Resistance and impedance measurement				
55	Electrical equipment	Resistance measurement	ISI-GSA-1227	ARN
56		Impedance measurement		
57		Measurement of blocking impedance		
Verification of degree of protection				
58	Electrical equipment	Verification of the IP coding (≤ IP56)	ISI-GSA-1227	ARN
59		Mechanical impact test (IK07-IK10)		
Tightness and leakage test				
60	Electrical equipment	Tightness tests / Gas Tightness test / Leak test of tightness test / Enclosure tightness test	ISI-GSA-1227	ARN
Sound level measurement				
61	Electrical equipment	Sound level measurement	ISI-GSA-1227	ARN
Power measurement				
62	Electrical equipment	Power measurement	ISI-GSA-1227	ARN
SFRA measurement				
63	Electrical equipment	SFRA measurement	ISI-GSA-1227	ARN
Examination				
64	Electrical equipment	Determination of dimensions / Gauging	ISI-GSA-1227	ARN

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65	Electrical equipment	Verification of displacements on insulators	ISI-GSA-1227	ARN