

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: **01-02-2023** to **01-04-2026**

Replaces annex dated: **23-06-2022**

Location(s) where activities are performed under accreditation

Head Office

Klingelbeekseweg 195
 6812 DE
 Arnhem
 The Netherlands

Location	Abbreviation/ location code
Klingelbeekseweg 195 6812 DE Arnhem The Netherlands	ARN

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) (≤ 2,4 MV)		
4.		Switching impulse voltage test (SI) (≤ 2,0 MV)		
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)		

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

J.A.W.M. de Haas

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-ljist](#).
 If no date or version number is mentioned for a normative document, the accreditation concerns the most current version of the document or scheme.

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

This annex is valid from: **01-02-2023** to **01-04-2026**

Replaces annex dated: **23-06-2022**

No.	Material or product	Type of activity ¹	Internal reference number	Location
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)		

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

This annex is valid from: **01-02-2023** to **01-04-2026**

Replaces annex dated: **23-06-2022**

No.	Material or product	Type of activity ¹	Internal reference number	Location
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		

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: **01-02-2023** to **01-04-2026**

Replaces annex dated: **23-06-2022**

No.	Material or product	Type of activity ¹	Internal reference number	Location
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		

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

This annex is valid from: **01-02-2023** to **01-04-2026**

Replaces annex dated: **23-06-2022**

No.	Material or product	Type of activity ¹	Internal reference number	Location
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 (\leq 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

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: **01-02-2023** to **01-04-2026**

Replaces annex dated: **23-06-2022**

No.	Material or product	Type of activity ¹	Internal reference number	Location
65.	Electrical equipment	Verification of displacements on insulators	ISI-GSA-1227	ARN
Material Testing Laboratory				
66.	Electrical equipment	Solar radiation	ISI-GSA-1227	ARN
67.		Glow wire test	ISI-GSA-1227	ARN
68.		Determination of temperature of deflection under load temperature of 135 °C pressure of 1,8 MPa	ISI-GSA-1227	ARN