

KEMA Labs Management System

ISI-GSA-1227 – KEMA Validated Range of Activities – Flexible Scope

Valid for:
Kema High-Power and High-Voltage
Laboratories Arnhem

Resp. unit/Author:
Ronald Gruntjes
Shankar Subramany

Revision:
7

Reviewed by:
Louise Smeding

Date:
2026-08-13

Approved by:
Marten Dekker

Revisions in this document:

Rev. no.	Date	Description of revision
7	2026-08-13	Change of column name from “X-Lab” to OS X- to correlate with the revised RVA scope and the applicable standard is marked with OS X1
6	2026-04-30	Addition of standard IEC 62262 with item 59, addition of items 58 and 59 to the instrument transformer standards IEC 61869-1, -2, -3, -5 and addition of item 52 to the cable standards IEC 60840 and IEC 62067. Addition of column to identify Items for X Lab Scope. Adjusted grammar in section 1.
5	2026-03-11	Addition of standard IEC 62271-109 and item 11 to cable standards HD 629.1 and HD 629.2, HD632, IEC 60502-4, IEC 60141-1, -2, -3 and -4.
4	2025-07-03	Addition of IEEE 1277 and IEEE C57.16
3	2024-06-01	Addition of CSA C22.2 no. 193
2	2023-09-28	Addition of Standards for Material Lab and tap change
1	2023-04-21	Inclusion of items transferred from L218 scope for material lab
0	2022-09-15	New document for Flexible Scope

Contents

1	INTRODUCTION	2
2	OVERVIEW OF VALIDATED STANDARDS	2
3	OVERVIEW OF TEST OBJECTS	6

1 INTRODUCTION

KEMA Labs specialises in testing electrical equipment used in the transmission and distribution of electrical power. The accredited tests are listed in the *Annex to the Declaration of Accreditation* (scope of accreditation), registration number **L020**, issued by the Dutch Accreditation Body – **Raad van Accreditatie (RvA)**.

Section 2 below presents the standards for which KEMA Labs can claim accreditation. This overview allows customers to determine whether KEMA Labs is able to perform the required tests on their test object in accordance with a specified standard under accreditation.

If customers request tests involving different test objects or standards, KEMA Labs assesses the applicable requirements and determines whether the laboratory has the capability to perform the requested test, following procedure **ISI-GSA-1225**. When internal verification confirms that KEMA Labs is capable of performing the test for a specific object or standard, the list in Section 2 is updated accordingly.

2 OVERVIEW OF VALIDATED STANDARDS

General remark: Any interpretation of the standards is guided by the STL. When the applicable standard is not an IEC standard, KEMA Labs will apply an interpretation based on a comparable IEC standard.

The standards according to which these products can be tested in KEMA Labs are:

Standard	Applicable scope	Comment / Date Added	OS -X LAB Scope
ANSI C29.1	1, 3, 4, 5, 6, 7, 10, 34, 35, 36, 39, 40, 42, 44, 45, 48, 52, 64	(1)	
ANSI C29.12	1, 3, 4, 5, 6, 7, 10, 34, 35, 36, 39, 40, 42, 44, 45, 48, 52, 64	(1)	
ANSI C29.13	1, 3, 4, 5, 6, 7, 10, 34, 35, 36, 39, 40, 42, 44, 45, 48, 52, 64	(1)	
ANSI C29.2	1, 3, 4, 5, 6, 7, 10, 34, 35, 36, 39, 40, 42, 44, 45, 48, 52, 64	(1)	
ANSI C29.6	1, 3, 4, 5, 6, 7, 10, 34, 35, 36, 39, 40, 42, 44, 45, 48, 52, 64	(1)	
ANSI C29.7	1, 3, 4, 5, 6, 7, 10, 34, 35, 36, 39, 40, 42, 44, 45, 48, 52, 64	(1)	
ANSI C37.54	1, 3, 6, 7, 11, 13, 23, 38, 43, 46, 49, 55, 58, 59, 60, 64	(1)	
ANSI C37.55	1, 3, 6, 7, 11, 13, 38, 43, 46, 49, 55, 58, 59, 60, 64	(1)	
BS 6622	1, 2, 3, 6, 8, 37, 41, 54, 55	(1)	
BS 7835	1, 2, 3, 6, 8, 37, 41, 54, 55	(1)	
BS 7870	1, 2, 3, 6, 8, 37, 41, 54, 55	(1)	
BS 7912	1, 2, 3, 6, 8, 37, 41, 54, 55, 70, 71, 72, 73, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84	(3)	
BS 7970	1, 2, 3, 6, 8, 37, 41, 54, 55	(1)	
CAN/CSA C411.1	1, 3, 4, 5, 6, 7, 10, 34, 35, 36, 39, 40, 42, 44, 45, 48, 52, 64	(1)	
CISPR 18-2	7	(1)	
CSA C22.2 no. 193	12, 13, 23	(4)	
EN 50152-1	1, 3, 4, 5, 6, 7, 11, 13, 17, 24, 38, 43, 46, 47, 49, 55, 58, 59, 60, 64	(1)	

Standard	Applicable scope	Comment / Date Added	OS -X LAB Scope
EN 50152-2	11, 13, 23, 24, 43, 46, 47, 49, 55, 60, 64	(1)	
EN 50470-1	67, 68, 69	(2)	
EN 50541-1	1, 3, 6, 7, 8, 32, 38, 55, 56, 61, 62, 63, 64	(1)	
EN 60695-2-10	68	(2)	
EN-IEC 60068-2-5	67	(2)	
EN-IEC 60695-2-11	68	(2)	
EN-IEC 62052-11	67, 68, 69	(2)	
EN-IEC 62052-31	68, 69	(2)	
HD 620	1, 2, 3, 6, 8, 37, 41, 54, 55, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84	(3)	
HD 629.1	1, 2, 3, 6, 8, 11, 37, 41, 54, 55	(1)	
HD 629.2	1, 2, 3, 6, 8, 11, 37, 41, 54, 55	(1)	
HD 632	1, 2, 3, 6, 8, 11, 37, 41, 54, 55, 70, 71, 72, 73, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84	(3)	
IEC 60034	1, 3	(1)	
IEC 60044-7	1, 3, 4, 5, 6, 8, 31, 38, 43, 52, 53, 60, 64	(1)	
IEC 60044-8	1, 3, 4, 5, 6, 8, 31, 38, 43, 52, 53, 60, 64	(1)	
IEC 60055-1	1, 2, 3, 6, 8, 37, 41, 54, 55	(1)	
IEC 60055-2	1, 2, 3, 6, 8, 37, 41, 54, 55	(1)	
IEC 60076-1	1, 3, 6, 7, 8, 32, 38, 55, 56, 61, 62, 63, 64, 66	(3)	OS X 1
IEC 60076-10	61	(1)	OS X 1
IEC 60076-11	1, 3, 6, 7, 8, 12, 32, 33, 34, 38, 55, 56, 60, 61, 62, 63, 64	(1)	OS X 1
IEC 60076-13	1, 3, 6, 7, 8, 32, 38, 55, 56, 61, 62, 63, 64	(1)	OS X 1
IEC 60076-15	1, 3, 6, 7, 8, 32, 38, 55, 56, 61, 62, 63, 64	(1)	OS X 1
IEC 60076-16	3, 6, 33, 34	(1)	OS X 1
IEC 60076-18	63	(1)	OS X 1
IEC 60076-2	38, 62,	(1)	OS X 1
IEC 60076-3	1, 3	(1)	OS X 1
IEC 60076-5	12, 60, 64	(1)	OS X 1
IEC 60076-6	1, 3, 4, 12, 32, 38, 55, 56, 60, 61, 62, 64	(1)	
IEC 60077-4	11, 13, 43, 46, 55, 60, 64	(1)	
IEC 60099-4	1, 3, 4, 6, 7, 22, 35, 37, 64	(1)	
IEC 60137	1, 3, 4, 5, 6, 7, 10, 34, 35, 36, 39, 40, 42, 44, 45, 48, 52, 64	(1)	
IEC 60141-1	1, 2, 3, 6, 8, 11, 37, 41, 54, 55	(1)	
IEC 60141-2	1, 2, 3, 6, 8, 11, 37, 41, 54, 55	(1)	
IEC 60141-3	1, 2, 3, 6, 8, 11, 37, 41, 54, 55	(1)	
IEC 60141-4	1, 2, 3, 6, 8, 11, 37, 41, 54, 55	(1)	
IEC 60168	1, 3, 4, 5, 6, 7, 10, 34, 35, 36, 39, 40, 42, 44, 45, 48, 52, 64	(1)	
IEC 60282-1	1, 3, 6, 14, 38, 46, 50, 51, 55, 58, 59, 64	(1)	
IEC 60282-2	1, 3, 6, 14, 38, 46, 50, 51, 55, 58, 59, 64	(1)	
IEC 60353	1, 3, 4, 12, 32, 38, 55, 56, 57, 60, 61, 62, 64	(1)	

Standard	Applicable scope	Comment / Date Added	OS -X LAB Scope
IEC 60358	1, 3, 5, 8, 15, 37, 38, 60	(1)	
IEC 60383-1	1, 3, 4, 5, 6, 7, 10, 34, 35, 36, 39, 40, 42, 44, 45, 48, 52, 64	(1)	
IEC 60383-2	1, 3, 4, 5,	(1)	
IEC 60502-2	1, 2, 3, 6, 8, 37, 41, 54, 55, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84	(3)	
IEC 60502-4	1, 2, 3, 6, 8, 11, 37, 41, 54, 55	(1)	
IEC 60507	1, 5, 35,	(1)	
IEC 60529	58	(1)	
IEC 60549	14, 15, 24, 64	(1)	
IEC 60644	14, 64	(1)	
IEC 60660	1, 3, 4, 5, 6, 7, 10, 34, 35, 36, 39, 40, 42, 44, 45, 48, 52, 64	(1)	
IEC 60831	1, 3, 5, 8, 15, 37, 38, 60	(1)	
IEC 60840	1, 2, 3, 6, 8, 37, 41, 52, 54, 55, 70, 71, 72, 73, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84	(3)	
IEC 60871	1, 3, 5, 8, 15, 37, 38, 60	(1)	
IEC 61109	1, 3, 4, 5, 6, 7, 10, 34, 35, 36, 39, 40, 42, 44, 45, 48, 52, 64	(1)	
IEC 61238-1	38, 44, 55	(1)	
IEC 61439-1	11, 64	15 January 2024	
IEC 61442	11, 64	7 October 2024	
IEC 61869-1	1, 3, 4, 5, 6, 8, 20, 31, 38, 43, 52, 53, 58, 59, 60, 64	(1)	
IEC 61869-2	1, 3, 4, 5, 6, 8, 11, 31, 38, 43, 52, 53, 58, 59, 60, 64	(1)	
IEC 61869-3	1, 3, 4, 5, 6, 8, 31, 38, 43, 52, 53, 58, 59, 60, 64	(1)	
IEC 61869-5	1, 3, 4, 5, 6, 8, 31, 38, 43, 52, 53, 58, 59, 60, 64	(1)	
IEC 62067	1, 2, 3, 6, 8, 37, 41, 52, 54, 55, 70, 71, 72, 73, 75, 76, 79, 80, 81, 82, 83, 84	(3)	
IEC 62217	34	(1)	
IEC 62262	59	(1)	
IEC 62271-1	1, 2, 3, 4, 5, 6, 7, 11, 38, 43, 55, 58, 59, 60, 64	(1)	
IEC 62271-100	1, 2, 3, 4, 5, 6, 7, 11, 13, 16, 17, 24, 28, 38, 43, 46, 47, 49, 55, 58, 59, 60, 64	(1)	
IEC 62271-101	13, 16, 17, 24	(1)	
IEC 62271-102	1, 2, 3, 4, 5, 6, 7, 11, 13, 25, 26, 27, 38, 43, 46, 47, 49, 55, 58, 59, 60, 64	(1)	
IEC 62271-103	1, 2, 3, 4, 5, 6, 7, 11, 13, 23, 24, 28, 38, 43, 46, 47, 49, 55, 58, 59, 60, 64	(1)	
IEC 62271-104	1, 2, 3, 4, 5, 6, 7, 11, 13, 23, 24, 28, 38, 43, 46, 47, 49, 55, 58, 59, 60, 64	(1)	
IEC 62271-105	1, 2, 3, 4, 5, 6, 7, 13, 14, 23, 38, 43, 50, 51, 55, 58, 59, 60, 64	(1)	
IEC 62271-106	1, 2, 3, 4, 5, 6, 7, 11, 13, 14, 23, 24, 28, 29, 38, 46, 50, 51, 55, 58, 59, 60, 64	(1)	
IEC 62271-107	13, 14, 43, 46, 51, 55, 60, 64	(1)	

Standard	Applicable scope	Comment / Date Added	OS -X LAB Scope
IEC 62271-109	1, 2, 3, 4, 5, 6, 7, 11, 18, 24, 38, 43, 46, 47, 55, 58, 59, 60, 64		
IEC 62271-110	23, 64		
IEC 62271-111 IEEE C37.60	1, 2, 3, 4, 5, 6, 7, 11, 13, 19, 24, 30, 38, 46, 49, 55, 58, 59, 60, 64	(1)	
IEC 62271-200	1, 3, 6, 7, 11, 13, 20, 38, 43, 46, 49, 55, 58, 59, 60, 64		
IEC 62271-201	1, 3, 6, 7, 11, 13, 20, 38, 43, 46, 49, 55, 58, 59, 60, 64	(1)	
IEC 62271-202	1, 3, 6, 7, 11, 20, 38, 55, 58, 59, 64		
IEC 62271-203	1, 3, 4, 6, 7, 11, 20, 38, 43, 46, 55, 58, 59, 60, 64		
IEC 62271-214	20, 64	20 Sep 2022	
IEC 62730	34	(1)	
IEC/IEEE 62271-37-013	11, 13, 17, 23, 24, 43, 46, 49, 55, 60, 64		
IEEE 1247	11, 13, 23, 24, 28, 43, 46, 47, 49, 55, 60, 64	(1)	
IEEE 1277	12, 15	(4)	
IEEE 404	1, 2, 3, 6, 8, 37, 41, 54, 55	(1)	
IEEE 48	1, 2, 3, 6, 8, 37, 41, 54, 55	(1)	
IEEE C37.013	1, 3, 4, 5, 6, 7, 38, 55, 58, 59	(1)	
IEEE C37.081	13, 16, 17, 24	(1)	
IEEE C37.09	1, 3, 4, 5, 6, 7, 11, 13, 16, 17, 23, 24, 28, 38, 43, 46, 47, 49, 55, 58, 59, 60, 64		
IEEE C37.122	1, 3, 4, 6, 7, 11, 13, 20, 25, 26, 27, 28, 38, 43, 46, 49, 55, 58, 59, 60, 64		
IEEE C37.20.2	1, 3, 6, 7, 11, 13, 38, 43, 46, 49, 55, 58, 59, 60, 64	(1)	
IEEE C37.20.7	20, 64		
IEEE C37.21	1, 3, 6, 7, 38, 55, 58, 59	(1)	
IEEE C37.23	1, 3, 6, 11, 38, 55, 58, 59, 64	(1)	
IEEE C37.41	1, 3, 4, 5, 6, 7, 14, 38, 46, 50, 51, 55, 58, 59, 64	(1)	
IEEE C37.74	1, 3, 6, 11, 13, 23, 24, 28, 38, 43, 46, 49, 55, 58, 59, 60, 64	(1)	
IEEE C57.12.00	1, 3, 6, 7, 8, 12, 32, 38, 55, 56, 60, 61, 62, 63, 64, 66	(3)	
IEEE C57.12.90	1, 3, 6, 7, 8, 12, 32, 38, 55, 56, 60, 61, 62, 63, 64	(1)	
IEEE C57.12.91	1, 3, 6, 7, 8, 12, 32, 38, 55, 56, 60, 61, 62, 63, 64		
IEEE C57.13	11, 31, 43, 60, 64	(1)	
IEEE C57.16	12, 15	(4)	
IEEE C57.19.00	1, 3, 4, 5, 6, 7, 10, 34, 35, 36, 39, 40, 42, 44, 45, 48, 52, 64	(1)	
IEEE C57.19.01	1, 3, 4, 5, 6, 7, 10, 34, 35, 36, 39, 40, 42, 44, 45, 48, 52, 64	(1)	
IEEE C57.21	1, 3, 4, 12, 32, 38, 55, 56, 60, 61, 62, 64	(1)	
IEEE C62.11	1, 3, 4, 6, 7, 22, 35, 37, 64	(1)	
IEEE C93.3	1, 3, 4, 12, 32, 38, 55, 56, 57, 60, 61, 62, 64	(1)	
ISO 75-2	69	(2)	

(1) On scope of Accreditation prior to 01-10-2022 prior to introduction of flexible scope.

(2) Moved from accreditation scope L218 to L020

(3) Addition of activities 28 September 2023

(4) Addition of activities 1 June 2024

(5)

3 OVERVIEW OF TEST OBJECTS

Typical test objects are listed below, but not limited to the following items:

High-voltage switchgear and control gear	Instrument transformers
Low-voltage switchgear and control gear	Line traps
Electric cables and their accessories	Reactors
Insulators (including insulated bushings)	Busducts
Power capacitors and their applications	Fuses
Power transformers	Surge arresters