LOVAG DECISION SHEET (LDS)

N° LDS201

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References	Standard(s) (incl. year)	IEC 60947-3: 2010+A1:2012+A2:2016		Subclause(s): 8.3.3.3
	Subject	Making and breaking capacities Test values and conditions	Submitted by: Lab. IK01 (Intek)	Date: 09/04/2019

Question

The standard does not specify the type of DC source to be used for the test voltage generation (could be a dynamo, a 12-phase bridge, a 6-stage bridge or a Graetz bridge single phase ...).
We have found different test results (performing sequence tests 1) depending on whether the test is performed with a 6-phase or 12-phase bridge source (all boundary conditions are identical and in accordance with the standard).
How can the situation be addressed? (we knew that in the new edition of the standard a factor of will be bound 7% ripple in accordance with IEC 62475, but in fact this requirement is met by both types of bridges)

Analysis

The representatives of the laboratories around the table agree that the test supply with three-phase rectifier bridge (Graetz with 6 diodes) is what is normally used and what is normally recognized and accepted for these tests.
At the same time, they declare that there is not as much sensitivity in the use of other possible sources of supply.

Decision

It was decided to collect more experiences from the other codified ACAE / LOVAG laboratories that perform these tests.
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Date:	Prepared by: Lab. IK01 (Intek)	Approved by: