



Surveillance tests for mass products bearing a LOVAG Mark

Inspection and follow-up instructions


General

A – The inspection procedure for the annual visit at the holder's premises is common to all the products listed with the Mark.

B – The sampling criteria and test frequency are specific for every product IEC Standard

1. Inspection procedure

- At each visit to the holder's premises the CB representative shall see the entire lot of product listed with the Mark. All premises, where the product or parts of the products are manufactured shall be inspected. Basis of the inspection are the entire LOVAG test report and a detailed product description with reference to drawings, materials and critical components.
- The sampling has to be done at the whole process of manufacturing.
- Sample for visual inspection shall be preferably selected from the production line. A careful inspection shall be carried out on the most critical components.
- The CB representative shall ask the holder to list any change introduced in his current product compared with the product which has granted the Mark.
- The CB representative shall evaluate the influences of the changes on the performances. Provisions of the standard regarding construction changes have to be taken into consideration.
- The CB representative shall take into consideration the changes, if any, of the current IEC Standard compared with the Standard which has been applied to grant the Mark
- If the CB representative deems that the changes to the product or/and to the IEC Standard may affect the performances, a suitable test programme shall be scheduled and witnessed by the CB representative. Also changing the location of manufacturing of the product line or parts hereof has to cause an inspection. In this case some testing should be performed.

LOVAG OD 03-02 Edition 1.0	Approved by LOVAG Management Committee in October 2010 Signed: Michel Brenon, Chairman of LOVAG 
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LOVAG Operational Document OD 03-02, Ed. 1.0

2. Sampling criteria and test frequency

2.1 Circuit breakers - IEC 60947-2 (2006-05)

2.1.1 Sampling criteria

- The number of samples for testing shall be in accordance with Table 10 of the a.m. Standard

2.1.2 Test frequency

- The repetition rate has also taken into account the number of products sold to the market, compared to the UL provisions. The maximum time should not exceed 36 months
- The test repetition rate shall be

Rated current	Minimum annual production units 1)	Test sequence	Frequency
$I_n \leq 160A$	12000	I; Annex B or M if applicable	6 months
		II; III; IV; V; VI; annex B; C; F; H	12 months
$160 < I_n \leq 800 A$	3000	I; Annex B or M if applicable	12 months
		II; III; IV; V; VI.; annex B; C; F; H	24 months
$800A < I_n$	1000	I; Annex B or M if applicable	24 months
		II; III; IV; V; VI.; annex C; F; H	36 months

- Notes:**
- 1) For lower annual production the frequency can be reduced
 - 2) For sequences II, III, IV, V and VI to be tested 1 sample of the maximum rated current at one rated voltage
 - 3) Different ratings (e.g. different rated voltage and different rated short circuit current) and different versions (e.g. three/four poles, drawable/fixed) shall be taken into consideration by scheduling the follow-up sessions when the LOVAG Mark is granted
 - 4) For the EMC tests of the annex B the same criterion as for annex F shall be applied