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**HIGH
POWER
LABORATORY**

13 - 167

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TEST REPORT
No. 13 - 167

Test object : HV current-limiting fuse-link
Type : NH 4000V d.c. aR
Reference No. : 004735605
Serial No. : --

Ratings
Rated voltage : 4000 V d.c.
Rated current : 250 A
Rated frequency : 50 Hz

Manufacturer : ETI ELEKTROELEMENT d.d.
Obrezija 5, 1411 Izlake, Slovenia

Test performed : Breaking tests (Test 11 and Test 12)
Customer's request based on
IEC 60269-4:2009, cl. 8.5

Customer : ETI ELEKTROELEMENT d.d.
Obrezija 5, 1411 Izlake, Slovenia

Date of test : 05. 09. 2013

THIS TEST REPORT IS CONFIDENTIAL AND SHALL NOT BE PASSED OVER OR TRANSFERRED TO ANY THIRD PARTY WITHOUT WRITTEN APPROVAL OF THE CUSTOMER.
WITHOUT THE WRITTEN APPROVAL OF THE TESTING LABORATORY ZKRATOVNA SHALL NOT BE REPRODUCED EXCEPT IN FULL.

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Tested by:

Richard Abrahamčík



Approved by:

Robert Jech
Head of the Laboratory



Description of the test object

DC current limiting fuse-links for the protection of semiconductor devices.

Type	: NH 4000V d.c. aR
Manufacturer	: ETI ELEKTROELEMENT d.d., Izlake, Slovenia
Year of manufacture	: 2013
Rated voltage	: 4000 V d.c.
Rated current	: 250 A
Characteristic	: aR
Length	: 418 mm

Test specification

The tests were carried out according to the customer's instructions. The test procedures, parameters and test assessment criteria are based on IEC 60269-4:2009, cl. 8.5.

Test parameters

Test 11

Test voltage	: 4,2 kV
Prospective current I_1	: 30 kA
Time constant	: 10 + 15 ms

Test 12

Test voltage	: 4,2 kV
Prospective current I_{2a}	: 1,97 kA
Time constant	: 5 ms

Summary

All the tests as required by the test specification were performed.

More details of the tests performed are given in the enclosed tables and oscillograms.