



Test Report

Project designation	Type test according to IEC/EN 6026	9-1 and IEC/El	N 60269-2
Product description	Low-voltage fuse-links for use by a Fuse-links with blade contacts type		
Client	ETI Elektroelement d.d. Obrezija 5 1411 Izlake SLOVENIA		
Order from / No.	02/2015 /		
Project number	2.03.02913.1.0/NH3/690V/aM		
Date of issue	31.08.2015	Test engineer	H. Raheb, MSc
Total number of issues / No.	1 / 1		
Number of pages	4		
Annex: Number of pages	CB - Test Report No. 2.03.02913.1.0/NH3/690V/aM/CB/1 (38 pages) CB - Test Report No. 2.03.02913.1.0/NH3/690V/aM/CB/2 (20 pages) CCA - Test Report No. 2.03.02913.1.0/NH3/690V/aM/CCA (2 pages)		

The results relate exclusively to the items tested.

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Test item

Identification:

Low-voltage fuse-links for use by authorized persons: Fuse-links with blade contacts type NH3 (NV3) / 690V / aM ETI Elektroelement d.d. Manufacturer: Factory location: Gabersko 12, 1420 Trbovlje, SLOVENIA Trademark: ETI Size: 3 Rated voltage(s): ~690V Rated current(s): 355A, 400A, 425A, 500A Rated frequency: 45Hz to 62Hz Utilization category: аΜ

Technical data and description:

See page 4

Testing location, Period of testing

Testing location:

AIT Austrian Institute of Technology GmbH Business Unit Electric Energy Systems Giefinggasse 2 1210 Vienna AUSTRIA

Period of testing: 02 to 07/2015

Test(s)

Test(s) performed: Type test

Test standard(s):

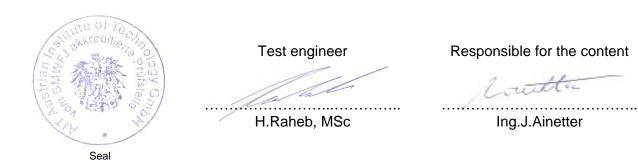
IEC 60269-1:2009 (Ed. 4.1)+A2:2014 and EN 60269-1:2007+A1:2009+A2:2014 IEC 60269-2:2013 (Ed. 5.0) and HD 60269-2:2013

Test procedure(s):

CB-Scheme and CCA-Scheme

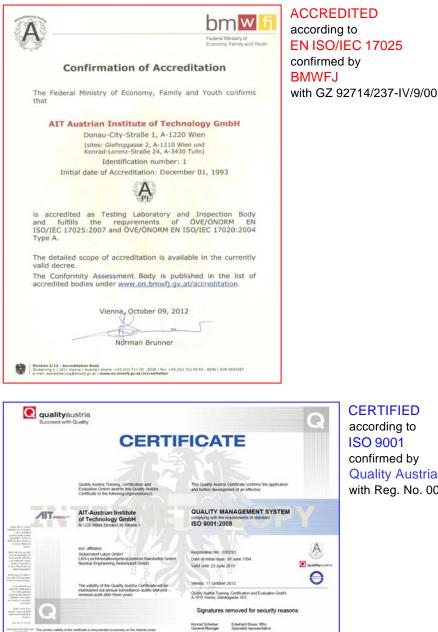
Result

The Low-voltage fuse-links for use by authorized persons: Fuse-links with blade contacts type NH3 (NV3) / 690V / aM have passed the type test successfully.





Testing laboratory



CERTIFIED according to **ISO 9001** confirmed by **Quality Austria** with Reg. No. 00229/1



RECOGNIZED CB TESTING LABORATORY confirmed by

International Electrotechnical Commission under the responsibility of OVE as the National Certification Body

Kerry McMANAMA IECEE EXECUTIVE SECT



Technical data and description

Test item	Low-voltage fuse-links for use by authorized persons: Fuse-links with blade contacts	
Model/Type reference	NH3 (NV3)	
Manufacturer	ETI Elektroelement d.d.	
Factory location	Gabersko 12, 1420 Trbovlje, SLOVENIA	
Size	3	
Nature of supply	AC	
Utilization category	aM	
Rated voltage	~690V	
Rated current	355A, 400A, 425A, 500A	
Rated frequency	45Hz to 62Hz	
Rated breaking capacity	100kA	
Homogeneous series	355A 400A 425A 500A	
Indicating device	In the middle of ceramic body and on cover plate	
Type of gripping-lugs	Energized	
Material of fuse-link contacts	CuZn gal. Ag	
Material of fuse-link body	Steatit C221	
Material of cover plates	AI	
Extinguishing means	Quartzsand	
1		

Test Report issued under the responsibility of:





TEST REPORT IEC 60269-1 Low-voltage fuses Part 1: General requirements

Report Number:	2.03.02913.1.0/NH3/690V/aM/CB/1				
Date of issue	31.08.2015				
Total number of pages	38				
Applicant's name:	ETI Elektroelement d.d.				
Address:	Obrezija 5, 1411 Izlake, SLOVENIA				
Test specification:					
Standard:	IEC 60269-1:2006 (Fourth edition)+ A1:2009				
Test procedure:	CB Scheme				
Non-standard test method::	N/A				
Test Report Form No:	IEC60269_1B				
Test Report Form(s) Originator :	EZU				
Master TRF:	Dated 2010-08				
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This report is not valid as a CB Test Report unless signed by an approved CB Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.					
Test item description:	Low-voltage fuse-links for use by authorized persons - fuse-links with blade contacts (NH fuse system)				
Trade Mark:	ETI				
Manufacturer	ETI Elektroelement d.d., Obrezija 5, SI-1411 Izlake, Slovenia				
Model/Type reference:	NH3 (NV3)				
Ratings:	355 A, 400 A, 425 A, 500 A / aM / ~690 V / 100 kA				

Testing procedure and testing location:						
CB Testing Laboratory:		stude of Teon				
Testing location/ address:	AIT Austrian Institute of Technology GmbH, Giefinggasse 2, 1210 Vienna, AUSTRIA					
Associated CB Laboratory:						
Testing location/ address:	-	the state				
Tested by (name + signature):	H.Raheb, MSc	Jack				
Approved by (name + signature):	Ing.J.Ainetter	foutter				
Testing procedure: TMP						
Testing location/ address:	-					
Tested by (name + signature):	-					
Approved by (name + signature):	-					
Testing procedure: WMT						
Testing location/ address:	-					
Tested by (name + signature):	-					
Witnessed by (name + signature) .:	-					
Approved by (name + signature):	-					
Testing procedure: SMT						
Testing location/ address:						
Tested by (name + signature):	-					
Approved by (name + signature):	-					
Supervised by (name + signature):	-					
Testing procedure: RMT						
Testing location/ address:	-					
Tested by (name + signature):	-					
Approved by (name + signature):	-					
Supervised by (name + signature):	-					

List of Attachments (including a total number of pages in each attachment):

Summary of testing:

Tests performed (name of test and test clause) acc. to IEC 60269-1 and IEC 60269-2:

Test		Sample No.			
	355A	400A	425A	500A	
8.1.4 Dimensions	10-12	4-6	10-12	10-12	
8.1.5.1 Resistance	1-19	1-13	1-19	1-19	
8.3 Power dissipation / Temperature rise	19	-	19	19	
8.4.3.3 Time- current characteristics, Gates	10-15	4-10	10-15	10-15	
8.4.3.4 Overload	16-18	1-13	16-18	16-18	
8.4.3.6 Indicating device	1-9	1-3	1-9	1-9	
8.5 No.1 Breaking capacity	1-3	1-3	1-3	1-3	
8.5 No.2 Breaking capacity	4-6	-	4-6	4-6	
8.5 No.3 Breaking capacity	7	-	7	7	
8.5 No.4 Breaking capacity	8	-	8	8	
8.5 No.5 Breaking capacity	9	-	9	9	

<u>Remark:</u> The Amendment 2:2014 of IEC 60269-1:2009 (Ed. 4.1) has been taken into consideration. No additional tests are necessary to perform at aM fuse-links.

Testing location:

AIT Austrian Institute of Technology GmbH Business Unit Electric Energy Systems Giefinggasse 2 1210 Vienna AUSTRIA The AIT Austrian Institute of Technology GmbH is a recognized CB/CCA Testing Laboratory under the responsibility of OVE as the National Certification Body.

Summary of compliance with National Differences: List of countries addressed:

The product fulfils the requirements of IEC 60269-1:2009 (Ed. 4.1) + A2:2014, IEC 60269-2:2013 and EN 60269-1:2007 + A1:2009 + A2:2014, HD 60269-2:2013

Copy of marking plate:

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