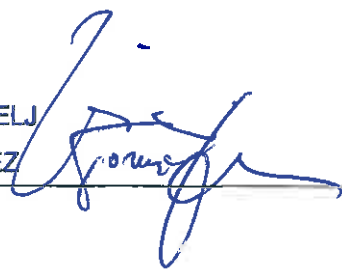
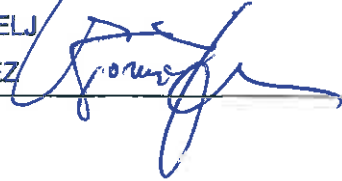




Test Report issued under the responsibility of:



TEST REPORT IEC 61558-2-8 Safety of transformers, reactors, power supply units and combinations thereof Part 2-8: Particular requirements and tests for transformers and power supply units for bells and chimes	
Report Number	T211-0001R/12
Date of issue	2012-11-21
Total number of pages	65
CB Testing Laboratory	SIQ – Slovenian Institute of Quality and Metrology
Address	Tržaška cesta 2, SI-1000 Ljubljana, Slovenia
Applicant's name	ETI Elektroelement d.d.
Address	Obrezija 5, SI-1411 Izlake, Slovenia
Test specification:	
Standard	IEC 61558-2-8:2010 (Second Edition) Used in conjunction with IEC 61558-1:2005 (ed.2) + A1:2009
Test procedure	CB Scheme
Non-standard test method	N/A
Test Report Form No.	IEC61558_2_8B
Test Report Form(s) Originator.....	VDE Testing and Certification Institute
Master TRF	Dated 2011-06
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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 IECEE02	
Test item description	Bell Transformer
Trade Mark.....	ETI
Manufacturer	ETI Elektroelement d.d.
Address	Obrezija 5, SI-1411 Izlake, Slovenia
Model/Type reference	ZT8/8, ZT8/8-2M, ZT8/12 and ZT8/12-2M
Rating(s).....	See copy of marking plate

Testing procedure and testing location:	
<input checked="" type="checkbox"/> CB Testing Laboratory:	SIQ – Slovenian Institute of Quality and Metrology
Testing location/ address.....:	Tržaška cesta 2, SI-1000 Ljubljana, Slovenia
<input type="checkbox"/> Associated CB Laboratory:	
Testing location/ address.....:	
Tested by (name + signature)	TIBOR KOKELJ 
Approved by (+ signature)	TOMAŽ KNEZ 
<input type="checkbox"/> Testing procedure: TMP	
Tested by (name + signature)	
Approved by (+ signature)	
Testing location/ address.....:	
<input type="checkbox"/> Testing procedure: WMT	
Tested by (name + signature)	
Witnessed by (+ signature).....:	
Approved by (+ signature)	
Testing location/ address.....:	
<input type="checkbox"/> Testing procedure: SMT	
Tested by (name + signature)	
Approved by (+ signature)	
Supervised by (+ signature).....:	
Testing location/ address.....:	
<input type="checkbox"/> Testing procedure: RMT	
Tested by (name + signature)	
Approved by (+ signature)	
Supervised by (+ signature).....:	
Testing location/ address.....:	

List of Attachments (including a total number of pages in each attachment): / 	
Summary of testing:	
Tests performed (name of test and test clause): All applicable tests were performed.	Testing location: SIQ – Slovenian Institute of Quality and Metrology Tržaška cesta 2, SI-1000 Ljubljana, Slovenia
Summary of compliance with National Differences: List of countries addressed: / <input checked="" type="checkbox"/> The product fulfils the requirements of IEC 61558-2-8:2010 (Second Edition)	

Copy of marking plate

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.

ZT8/8-2M
 $U_n=230V$ 50Hz
 $U_{sc}=8V$ 1A
 $P_n=8VA$
 $t_a=40^\circ C$

ZT8/12-2M
 $U_n=230V$ 50Hz
 $U_{sc}=12V$ 0.63A
 $P_n=8VA$
 $t_a=40^\circ C$

ZT8/8
 $U_n=230V$ 50Hz
 $U_{sc}=4-6-8V$ 1A
 $P_n=8VA$
 $t_a=40^\circ C$

ZT8/12
 $U_n=230V$ 50Hz
 $U_{sc}=6-8-12V$ 0.63A
 $P_n=8VA$
 $t_a=40^\circ C$

Test item particulars:	
Type of transformers	Bell transformer
Application	<u>stationary</u> / portable / hand-held
Protection against electric shock	Class I (Class II construction
Short-circuit protection.....	
inherently short-circuit proof	<u>Yes</u> / No (ZT8/8 and ZT8/12)
non-inherently short-circuit proof	<u>Yes</u> / No (ZT8/8-2M and ZT8/12-2M)
non short-circuit proof	Yes / No
fail safe	Yes / No
Protection index	IP 20 (for mounting in consumer distribution box)
Other characteristics.....	/
Rated ambient temperature ta (°C)	40°C
Short-circuit voltage (V)	/
Possible test case verdicts:	
- test case does not apply to the test object	N/A (not applicable)
- test object does meet the requirement	P (Pass)
- test object does not meet the requirement	F (Fail)
Testing:	
Date of receipt of test item.....	2009-04-22
Date (s) of performance of tests	(2010-06-28) – (2010-07-20); (2011-10-20) – (2012-01-05); (2012-08-21) – (2012-11-21)
General remarks:	
<p>The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory. "(see Enclosure #)" refers to additional information appended to the report. "(see appended table)" refers to a table appended to the report. Additional test data and/or information provided in the attachments to this report. List of test equipment must be kept on file and available for review. Throughout this report a <input checked="" type="checkbox"/> comma / <input type="checkbox"/> point is used as the decimal separator.</p>	
Manufacturer's Declaration per sub-clause 6.2.5 of IEC60335-1:	
The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided :	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> Not applicable
When differences exist; they shall be identified in the General product information section.	
Name and address of factory (ies)	1.) ETI Elektroelement d.d.; Obrezija 5, SI-1411 Izlake, Slovenia

General product information: /

Manufacturing location:

- Metalna IMPRO d.o.o., Zagrebška cesta 20, SI-2000 Maribor, Slovenia

History Sheet			
Date	Report Number	Change	Revision No.
2012-01-05	T211-0001/12	Initial Test Report issued.	—
2012-11-21	T211-0001R/12	Revised test report issued. Changes: new marking plate, modification of Clauses 8; 8.11; 9; 11.1; 15.3.5 and 26.2.3	1.0