

Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the LR Type Approval System.

This certificate is issued to:

PRODUCER ETI Elektroelement d.d.

PLACE OF PRODUCTION Obrezija 5
1411 Izlake
Slovenia, Republic of

DESCRIPTION Miniature Circuit Breakers

TYPE ETIMAT 10

APPLICATION Marine, offshore and industrial use

SPECIFIED STANDARD IEC 60898-1: 2003 EN 60898-1: 2003

RATINGS Tripping Characteristics B, C and D

Rated Current (A)	Voltage (Vac)	No. of Poles	Breaking Capacity (kA)
0.5, 1, 1.6, 2, 4, 6, 10, 13, 16, 20, 25, 32 & 40	230/400	1-pole	10
50 & 63	230/400	1-pole	6
0.5, 1, 1.6, 2, 4, 6, 10, 13, 16, 20, 25, 32 & 40	230	1-pole + Neutral	10
50 & 63	230	1-pole + Neutral	6
0.5, 1, 1.6, 2, 4, 6, 10, 13, 16, 20, 25, 32 & 40	400	2-pole, 3-pole & 3-pole + Neutral	10
50 & 63	400	2-pole, 3-pole & 3-pole + Neutral	6

* Current Ratings (A) 0.5, 1, 1.6, 2 & 4 are for C & D Tripping Characteristics.

"This Certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid certificate."

The Design Appraisal Document No. 04/00112 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

Certificate No. 04/00112

Issue Date 31 December 2004

Expiry Date 31 March 2010

Sheet 1 of 1


M.H.A. Rupaie
London Plan Approval
Lloyd's Register EMEA

Part 1B

Subject: Electrical Equipment (Not Environmentally Tested)

Product: Circuit Breakers (Non ENV Tested) (Part 1B)

Producer/Licence No.	Description of Product					Cert. No.	
	Type	Details of Approval			Application		Remarks
ETI Elektroelement d.d., Obrežija 5, 1411 Izlake, Slovenia, Republic of.	ETIMAT 10	Rated Current (A)	Voltage (Vac)	No. of Poles	Breaking Capacity (kA)	Marine, Offshore and Industrial. For protection against overcurrent of wiring installation.	Expires: 31 March 2010 IEC 60898-1: 2003 EN 60898-1: 2003 Types B and C & D
		0.5, 1, 1.6, 2, 4, 6, 10, 13, 16, 20, 25, 32 & 40	230/400	1-P	10		
		50 & 63	230/400	1-P	6		
		0.5, 1, 1.6, 2, 4, 6, 10, 13, 16, 20, 25, 32 & 40	230	1-P + N	10		
		50 & 63	230	1-P + N	6		
		0.5, 1, 1.6, 2, 4, 6, 10, 13, 16, 20, 25, 32 & 40	400	2-P, 3-P & 3-P+N	10		
		50 & 63	400	2-P, 3-P & 3-P+N	6		
* Current Ratings (A) 0.5, 1, 1.6, 2 & 4 are for C & D Tripping Characteristics:							

31 DEC 2004
MHZ

DESIGN APPRAISAL DOCUMENT

Date 31 December 2004	Quote this reference on all future communications LPA/DAPP/ECE/TA/W00646549/MHR/O- 57452
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LLOYD'S REGISTER TYPE APPROVAL SYSTEM, 2002.

Issued to: ETI ELEKTROELEMENT D.D.

for: MINIATURE CIRCUIT BREAKERS

Type: ETIMAT 10

TYPE APPROVAL CERTIFICATE No. 04/00112

The undernoted documents have been reviewed for compliance with the requirements of the Lloyd's Register Type Approval System, 2002 and this Design Appraisal Document forms part of the Certificate.

APPROVAL DOCUMENTATION

Request form	02.06.2004
ETI letter	11.11.2004
ETI letter	02.06.2004
ETI letter	21.09.2004
LR Rijeka memo	28.09.2004

Data Sheets

LR Rijeka fax message + attachments	17.11.2004
ETI Construction Data	02.06.2004
ETI catalogue data	Undated

TEST REPORTS

OVE Statement of Conformity (STC/AT 781	26.01.2004
APU report No. 2.03.00263.1.0/ETIMAT10/CB/CCA	02.02.2003 and 10.02.2004
BVQi Certificate No. 133432/A	03.07.2003
ETI No. 38/2005	24.03.2005
Lloyd's Register EMEA (Rijeka) inspection report	25.03.2005

Supplementary Type Approval Terms and Conditions

Type Approval certifies that a representative sample of the product(s) referred to herein has/have been found to meet the applicable design criteria for the use specified herein. It does not mean or imply approval for any other use, nor approval of any product(s) designed or manufactured otherwise than in strict conformity with the said representative sample.

Type Approval is based on the understanding that the manufacturer's recommendations and instructions and any relevant requirements of the Rules and Regulations are complied with.

Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations.

Lloyd's Register EMEA reserves the right to cancel or withdraw this Type Approval Certificate in accordance with the Lloyd's Register Type Approval System Procedure.



Lloyd's Register EMEA (London Office)

LONDON PLAN APPROVAL/DESIGN APPRAISAL

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Issue number
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DESIGN APPRAISAL DOCUMENT

Date	Quote this reference on all future communications
31 December 2004	LPA/DAPP/ECE/TA/W00646549/MHR/O- 57452

M. A. Rufaie

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Electrical and Control Engineering/Type Approval

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