

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

ABB Oy, Distribution Automation

PLACE OF

PL 699, Muottitie 2A

PRODUCTION

65101 Vaasa Finland

DESCRIPTION

Multifunction Relay

TYPES

Feeder Terminal REF 54_

Protection, measurement, control and

communication for incomers and feeders

Machine Terminal REM 54... Protection, measurement, control and

communication for electric motors and

generators

APPLICATION

Marine, offshore and industrial applications for use in environmental

categories ENV1, ENV2 and ENV3 as defined in Lloyd's Register's Type

Approval System, Test Specification Number 1 – 1996.

DESIGN CODE

Manufacturer's specification

Document No. 1MR S081301, rev. A 5.09 2002

OTHER CONDITIONS

Functional arrangements are to comply with the appropriate and applicable

Lloyd's Register Rules and will be subject to a Plan Approval process.

Certificate No.

04/20009

Issue Date

05 February 2004

Expiry Date

04 February 2009

Sheet

1 of 2

VJochen Körner Hamburg Plan Approval Centre Lloyd's Register EMEA

Lloyd's Register EMEA 71 Fenchurch Street, London EC3M 4BS



"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. HEC 10134-04 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

Certificate No.

04/20009

Issue Date

05 February 2004

Expiry Date

04 February 2009

Sheet

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Jochen Körner
Hamburg Plan Approval Centre
Lloyd's Register EMEA

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Document number HEC 10134-04
Issue number 0

DESIGN APPRAISAL DOCUMENT

Date	Quote this reference on all future communications
05 February 2004	HEC 0220320/10134-04/JK/WR

THE LLOYD'S REGISTER'S TYPE APPROVAL SYSTEM, 2002

Issued to: ABB Oy, Distribution Automation, Finland for: Multifunction Relay REF 54, REM 54
TYPE APPROVAL CERTIFICATE No. 04/20009

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

APPROVAL DOCUMENTATION

Request form	16.09.20	ე02
Requestionii	10.07.20	JU2

TEST REPORTS

1MR S 081331	Type Approval Test Specification, rev. A	13.09.2002
1MRS 750920-XCR EN	Declaration of Conformity	01.01.2002
1MRS 751805-XCREN	Declaration of Conformity	01.01.2002
1MRS 081386	Type Test Report, rev. A	14.02.2003
1031593	Nemko test report	12.02.2003
1MRS 081435	Type test report	08.10.2003
Unnumbered	Drawing list, 2 pages	23.01.2004

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 LR Type Approval System Procedure.

Jochen Körner (Ext. -443)

Senior Surveyor

Electrical/Control Engineering Dept.

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