

## Type Approval Certificate Extension

*This is to certify* that Certificate No. 02/00085 for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

**PRODUCER** ABB AB, Cewe-Control

**PLACE OF PRODUCTION** Motorgränd 20  
S-721 61 Västerås  
Sweden

**DESCRIPTION** Three pole contactors

**TYPE** AF 400  
AF 460  
AF 580  
AF 750

**APPLICATION** Marine, offshore and industrial use in environmental category ENV1 as described in LR Test Specification No. 1: 1996.

**STANDARD** IEC 60947-4-1

**RATINGS** Frequency: 50/60Hz

Utilisation Category	AF 400	AF 460	AF 580	AF 750
AC1 = Ithe ( $\leq 55^{\circ}\text{C}$ )	500 A	600 A	700 A	800 A
AC3, 400 V	400 A	460 A	580 A	750 A
AC3, 440 V	400 A	460 A	580 A	750 A
AC3, 500 V	400 A	460 A	580 A	750 A
AC3, 690V	350 A	400 A	500 A	650 A

**OTHER CONDITIONS** The equipment should not be installed in locations where `Cyclic Humidity` is encountered.

**Certificate No.** 02/00085(E1)

**Issue Date** 4 March 2010

**Expiry Date** 20 November 2012

**Sheet** 1 of 2



A. B. Gunn  
London Design Support Services  
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 attached Design Appraisal Document No. 02/00085(E1) and its supplementary Type Approval Terms and Conditions form part of this Certificate.*

All other details remain as the previous Certificate No. 02/00085 to which this extension should be attached.

<b>Certificate No.</b>	02/00085(E1)
<b>Issue Date</b>	4 March 2010
<b>Expiry Date</b>	20 November 2012
<b>Sheet</b>	2 of 2

A. B. Gunn  
London Design Support Services  
Lloyd's Register EMEA

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

Lloyd's Register, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as the 'Lloyd's Register Group'. The Lloyd's Register Group assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register Group entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.