



Lloyd's  
Register

## Type Approval Certificate Extension

*This is to certify* that Certificate No.13/ 00087 for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

<b>PRODUCER</b>	ABB France
<b>PLACE OF PRODUCTION</b>	3, Rue Jean Perrin CS 90009 69687 Chassieu Cedex France
<b>DESCRIPTION</b>	3 and 4 pole contactors without enclosures and auxiliary contact blocks
<b>TYPE</b>	Contactors: AF09, AF12, AF16, AF26, AF30, AF38, AF40, AF52, AF65, AF80, AF96 Auxiliary contact blocks: CA4, CC4, CAT4, CAL4 Operating coils: <500V
<b>APPLICATION</b>	Marine Applications for use in environmental categories ENV1, ENV2 and ENV3 as defined in LR Test Specification No. 1 (2002)
<b>STANDARD</b>	IEC 60947-4-1 (Ed.3.0, 2009) IEC 60947-5-1 (Ed.3.0, 2009)
<b>Certificate No.</b>	13/ 00087(E1)
<b>Issue Date</b>	11 December 2014
<b>Expiry Date</b>	14 November 2018
<b>Sheet</b>	1 of 2

A.M. Anderson  
Marine Technology & Engineering Services, Southampton  
Lloyd's Register EMEA

*Lloyd's Register EMEA  
Southampton Boldrewood Innovation Campus, Burgess Road, Southampton, SO16 7QF*

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**RATINGS**

Type	Utilisation Category	Operational Voltage Ue (Volts)	Operational Current Ie (Amperes)	Thermal Current Ith (Amperes)
AF09, AF12, AF16, AF26, AF30, AF38, AF40, AF52, AF65, AF80, AF96	AC1 (3-pole)	690	25 – 130	35 – 130
	AC1 (4-pole)	690	25 – 55	35 – 55
	AC3 (3-pole)	690 400	7 – 57 9 - 96	35 – 130 35 - 130
CA4, CC4 (1 – pole)	AC15	24 - 690	2 - 6	16
	DC13	24 - 600	0.1 - 6	
CAT4, CAL4 (2 – pole)	AC15	24 - 690	2 - 6	16
	DC13	24 - 600	0.1 - 6	
CA4 (4 – pole)	AC15	24 - 690	2 - 6	16
	DC13	24 - 600	0.1 - 6	

*"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. 13/00087(E1) and its supplementary Type Approval Terms and Conditions form part of this Certificate.*

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