



## Type Approval Certificate Extension

*This is to certify* that Certificate No. 01/00014 for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

<b>PRODUCER</b>	ABB Automation Technologies AB
<b>PLACE OF PRODUCTION</b>	Cewe-Control Motorgrand 20 SE-721 61 Vasteras Sweden
<b>DESCRIPTION</b>	3 Pole Contactors  A145 A185 A210 A260 A300.
<b>APPLICATION</b>	Marine and offshore applications in Category ENV1 <sup>(1)</sup> as defined in LR Type Approval System Test Specification No. 1 1996 where the Test Specification is satisfactory for the intended purpose.  <sup>(1)</sup> Humidity 70% for 96 hours at 55°C.
<b>ADDITIONAL TESTS</b>	Dry heat 70°C 16 hours.
<b>SPECIFIED STANDARD</b>	IEC 60947-4-1
<b>Certificate No.</b>	01/00014(E1)
<b>Issue Date</b>	16 October 2005
<b>Expiry Date</b>	4 February 2011
	1 of 3

M.H.A. Rufaie  
London Plan Approval  
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.

## RATINGS

TYPE	3 Phase, 50/60Hz A.C.				
	Standard	Utilisation Category	Operational Voltage U <sub>e</sub>	Operational Current I <sub>e</sub> Amperes	Thermal Current I <sub>th</sub> Amperes
A145	IEC 60947-4-1	AC-3	220/230/240	145	230
	"	"	380/400	145	
	"	"	415	145	
	"	"	440	145	
	"	"	500	145	
	"	"	690	120	
A185	IEC 60947-4-1	AC-3	220/230/240	185	250
	"	"	380/400	185	
	"	"	415	185	
	"	"	440	185	
	"	"	500	170	
	"	"	690	170	
A210	"	"	220/230/240	210	300
	"	"	380/400	210	
	"	"	415	210	
	"	"	440	210	
	"	"	500	210	
	"	"	690	210	
A260	"	"	220/230/240	260	350
	"	"	380/400	260	
	"	"	415	260	
	"	"	440	240	
	"	"	500	240	
	"	"	690	220	

Certificate No. 01/00014(E1)

Issue Date 16 October 2005

Expiry Date 4 February 2011

Sheet 2 of 3



M.H.A. Rufaie  
London Plan Approval  
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.



**RATINGS (cont.)**

TYPE	3 Phase, 50/60Hz A.C.				
	Standard	Utilisation Category	Operational Voltage U <sub>e</sub>	Operational Current I <sub>e</sub> Amperes	Thermal Current I <sub>th</sub> Amperes
A300	IEC 60947-4-1	AC-3	220/230/240	305	400
	"	"	380/400	305	
	"	"	415	300	
	"	"	440	280	
	"	"	500	280	
	"	"	690	280	

*"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. 01/00014(E1) and its supplementary Type Approval Terms and Conditions form part of this Certificate.*

All other details remain as the previous Certificate No. 01/00014 to which this extension should be attached.

Certificate No. 01/00014(E1)  
Issue Date 16 October 2005  
Expiry Date 4 February 2011  
Sheet 3 of 3

M.H.A. Rufaie  
London Plan Approval  
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.

Lloyd's  
Register

TA

TYPE APPROVED

## LR 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:

<b>PRODUCER</b>	ABB Control AB
<b>PLACE OF PRODUCTION</b>	Saltängsvägen 26 S-721 61 Västerås Sweden
<b>DESCRIPTION</b>	3 Pole Contactors  A145, A185, A210, A260, A300.
<b>APPLICATION</b>	Marine and offshore applications in Category ENV1 <sup>(1)</sup> as defined in LR Type Approval System Test Specification No. 1 1996 where the Test Specification is satisfactory for the intended purpose. <sup>(1)</sup> Humidity 70% for 96 hours at 55°C.
<b>ADDITIONAL TEST</b>	Dry heat 70°C 16 hours.
<b>SPECIFIED STANDARD</b>	IEC 60947-4-1

<b>Certificate No.</b>	01/00014
<b>Issue Date</b>	5 February 2001
<b>Expiry Date</b>	4 February 2006
	1 of 3



A.E. McLaughlin

Lloyd's  
Register

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

RATINGS

Standard	Utilisation Category	Rating 3 phase, 50/60Hz a.c.		
		Operational Voltage U <sub>e</sub>	Operational Current I <sub>e</sub> Amperes	Thermal Current I <sub>th</sub> Amperes
IEC 60947-4-1	AC-3	220/230/240	145	230
		380/400	145	
		415	145	
		440	145	
		500	145	
		690	120	
		220/230/240	185	250
		380/400	185	
		415	185	
		440	185	
		500	190	
		690	170	
		220/230/240	210	300
		380/400	210	
		415	210	
		440	210	
		500	210	
		690	210	
		220/230/240	260	350
		380/400	260	
		415	260	
		440	240	
		500	240	
		690	220	

Certificate No. 01/00014  
 Issue Date 5 February 2001  
 Expiry Date 4 February 2006  
 2 of 3



A.E. McLaughlin

**RATINGS (Continued)**

Standard	Utilisation Category	Rating 3 phase, 50/60Hz a.c.		Thermal Current I <sub>th</sub> Amperes
		Operational Voltage U <sub>e</sub>	Operational Current I <sub>e</sub> Amperes	
IEC 60947-4-1	AC-3	220/230/240	305	400
		380/400	305	
		415	300	
		440	280	
		500	280	
		690	280	

*"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 LR of any modification or changes to the equipment in order to obtain a valid certificate."*

*The Design Appraisal Document No. 01/00014 and its supplementary Type Approval Terms and Conditions form part of this Certificate.*

Certificate No. 01/00014  
 Issue Date 5 February 2001  
 Expiry Date 4 February 2006  
 3 of 3



A.E. McLaughlin