

Type Approval Certificate Extension

This is to certify that Certificate No. 04/20033 (E1) for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

PRODUCER ABB STOTZ-KONTAKT GmbH

PLACES OF PRODUCTION Eppelheimer Strasse 82
69123 Heidelberg
Germany

DESCRIPTION Motor Protection Circuit Breaker for drives up to 30 kW with additional modules

TYPES

Motor Protection Circuit Breaker	MS116-#	# = operational current range I_e from 0.16 - 32.0 A
Auxiliary Switch Modules	HKF1-11 HK1-11 HK1-20 HK1-02	1 normally open , 1 normally closed contact 1 normally open , 1 normally closed contact 2 normally open contacts 2 normally closed contacts
Signal Contact Modules	SK1-11 SK1-20 SK1-02	1 normally open , 1 normally closed contact 2 normally open contacts 2 normally closed contacts
Undervoltage Tripping Modules	UA1-24 UA1-48 UA1-60 UA1-110 UA1-208 UA1-230 UA1-400 UA1-415	24 V 50 Hz 48 V 50 Hz 60V 50 Hz 110V 50Hz/120V 60Hz 208 V 60Hz 230V 50Hz / 240V/60Hz 400V/50Hz 415V/50Hz/480V 60Hz

Certificate No. 04/20033 (E2)

Issue Date 09 December 2011

Expiry Date 29 June 2014

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TYPES CONTINUED

Undervoltage Tripping Modules with auxiliary switch	UA1-HK-24 UA1-HK-48 UA1-HK-60 UA1-HK-110 UA1-HK-208 UA1-HK-230 UA1-HK-400 UA1-HK-415	24V 50Hz 48V 50Hz 60V 50Hz 110V 50Hz/120V 60Hz 208V 60Hz 230V 50Hz/240V 60Hz 400V 50Hz 415V 50Hz/480V 60Hz
Current Working Tripping Modules	AA1-24 AA1-110 AA1-230 AA1-400	20-24V 50/60Hz 110V 50/60Hz 200-240V 50/60Hz 350-415V 50/60Hz

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.

ADDITIONAL TESTS Low temperature test (-25°C/16 hrs)

SPECIFIED STANDARDS IEC 60947-1 : 2007; IEC 60947-2 : 2006; IEC 60947-4-1 : 2005; IEC 60947-5-1 : 2003

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"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. ETS 25818-11 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

All other details remain as the previous Certificate No. 04/20033 (E1) to which this extension should be attached.

Certificate No.	04/20033 (E2)
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