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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 Lloyd's Register Type Approval System.

Manufacturer	ABB Stotz-Kontakt GmbH		
Address	Eppelheimer Str. 82, Heidelberg, 69123, Germany		
Туре	Motor Starters		
Description	Motor Protection Circuit Breaker for drives up to 30 kW with additional modules		
	refer to the Appendix for details		
Trade Name	MS116		
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.		
Specified Standard	EN 60947-1: 2007/A1:2011/A2:2014 EN 60947-2: 2006/A1:2009/A2:2013 EN60947-4-1: 2010/A1:2012 EN60947-5-1: 2004/A1:2009		
Additional Tests	Low temperature test(-25°C/16 hrs)		

Thorsten Wolff

Senior Specialist to Lloyd's Register EMEA A member of the Lloyd's Register Group

71 Fenchurch Street, London, EC3M 4BS, United Kingdom

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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 Design Appraisal Document No. HTS/ETS 40082-20/TW and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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Appendix

TYPES

Motor Protection Circuit Breaker	MS116-#	# = operational current range I_e from 0.16 – 32.0 A
Auxiliary Switch Modules	HKF1-11	1 normally open , 1 normally closed contact
	HK1-11	1 normally open , 1 normally closed contact
	HK1-20	2 normally open contacts
	HK1-02	2 normally closed contacts
Signal Contact Modules	SK1-11	1 normally open , 1 normally closed contact
	SK1-20	2 normally open contacts
	SK1-02	2 normally closed contacts
Undervoltage Tripping Modules	UA1-24	24 V 50 Hz
	UA1-48	48 V 50 Hz
	UA1-60	60V 50 Hz
	UA1-110	110V 50Hz/120V 60Hz
	UA1-208	208 V 60Hz
	UA1-230	230V 50Hz / 240V/60Hz
	UA1-400	400V/50Hz
	UA1-415	415V/50Hz/480V 60Hz
Undervoltage Tripping Modules	UA1-HK-24	24V 50Hz
with auxiliary switch	UA1-HK-48	48V 50Hz
	UA1-HK-60	60V 50Hz
	UA1-HK-110	110V 50Hz/120V 60Hz
	UA1-HK-208	208V 60Hz
	UA1-HK-230	230V 50Hz/240V 60Hz
	UA1-HK-400	400V 50Hz
	UA1-HK-415	415V 50Hz/480V 60Hz
Current Working Tripping Modules		
	AA1-24	20-24V 50/60Hz
	AA1-110	110V 50/60Hz
	AA1-230	200-240V 50/60Hz
	AA1-400	350-415V 50/60Hz

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PLACES OF PRODUCTION

ABB Stotz-Kontakt GmbH Eppelheimer Strasse 82 69123 Heidelberg Germany

ABB Xinhui Low Voltage Switchgear Co., Ltd. Jinguzhou Industrial Development Zone Xinhui district, Jiangmen city, Guangdong Province People's Republic of China

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