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Certificate No: LR22131008TA

Issue Date: 28/04/2022

Expiry Date: 21/04/2026

## **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

**Place of Production** ABB Xinhui Low Voltage Switchgear Co., Ltd.

Jinguzhou Industrial Development Zone, Xinhui Dist., Jiangmen, 529100, China

**Type** Motor Starters

**Description** Manual motor starters with additional auxiliary contacts

Refer to the Appendix for further details.

Trade Name MS165 and MO165

**Application** Marine, offshore and industrial applications for use in environmental

categories ENV 1, ENV 2 and ENV 3 as defined in Lloyd's Register's Type

Approval System, Test Specification No. 1 - July 2015.

**Specified Standard** IEC 60947-2: 2016/AMD1:2019

IEC 60947-4-1: 2018

**Ratings** Refer to the Appendix for further details.

Additional Tests Low temperature test (-25°C/16h)

**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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## **Type Approval Certificate**

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.

**Previous Version:** 16/20038

The Design Appraisal Document HPC1562172-22/TW and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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## **Appendix**

**TYPES** 

MS165-16, MS165-20, MS165-25, MS165-32, MS165-42, MS165-54, MS165-65, MS165-73,

MS165-80

MO165-16, MO165-20, MO165-25, MO165-32, MO165-42, MO165-54, MO165-65, MO165-73,

MO165-80

Auxiliary contacts:

Front mounted auxiliary contact: HKF1-11, HKF1-10, HKF1-01, HKF1-20

Left mounted auxiliary contact: HK1-11, HK1-20, HK1-02, HK1-20L

Right mounted signal contact: SK1-11, SK1-20, SK1-02, CK1-11, CK1-20, CK1-02

Left mounted shunt trip: AA1-24, AA1-110, AA1-230, AA1-400

Left mounted undervoltage release: UA1-20, UA1-24, UA1-48, UA1-60, UA1-110, UA1-208,

UA1-230, UA1-400, UA1-415, UA1-575

## **RATINGS**

	Operational current	Operational power kW
	le [A]	at 400V
MS165-16	10 – 16	7,5
MS165-20	14 – 20	7,5
MS165-25	18 – 25	11
MS165-32	23 – 32	15
MS165-42	30 – 42	22
MS165-54	40 – 54	22
MS165-65	52 – 65	30
MS165-73	62 - 73	37
MS165-80	70 - 80	45
MO165-16	16	7,5
MO165-20	20	7,5
MO165-25	25	11
MO165-32	32	15
MO165-42	42	22
MO165-54	54	22
MO165-65	65	30
MO165-73	73	37
MO165-80	80	45

Max. insulation voltage Ui: 1000V
Max. impulse voltage Uimp: 8 kV
Max. operating voltage Ue: 690 VAC

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