

TYPE APPROVAL CERTIFICATE

Certificate No: **TAE000018D** Revision No:

This is to certify	:	
That the Motor Start	er	
with type designation MS 165 / MO 165	(s)	
ABB Stotz-K Heidelberg, Geri	ontakt GmbH many	
is found to comply wi		ore units, and high speed and light craft
Application :		
Product(s) approved	d by this certificate is/ard	e accepted for installation on all vessels classed by DNV.
Rated voltage (V) Rated current (A) Frequency (Hz)	400 / 690 AC 16 - 80 50 / 60	
Issued at Hamburg	on 2022-05-20	(DWV
This Certificate is vali	d until 2027-05-19 .	for DNV
DNV local station: Au	igsburg	
Approval Engineer: D	ariusz Lesniewski	Joannis Papanuskas
		Head of Section

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This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.



Job Id: **262.1-021692-2** Certificate No: **TAE000018D**

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Product description

Manual motor starter with short-circuit protection (MO 165)

Manual motor starter with overload and short-circuit protection (MS 165)

Rated Voltage Ue: 400V AC, 690V AC

Rated frequency: 50 / 60 Hz
Rated impulse witstand voltage Uimp: 8 kV
Rated insulation voltage Ui: 1000 V
Trip class (MS 165): 10
Utilisation category: AC-3

Degree of protection: IP20 (housing)

IP10 (main circuit terminals)

Rated short-circuit characteristic:

	Rated	Rated short	Rated service	Rated ultimate	Rated service	Rated ultimate
Туре	operational	circuit	short circuit	short-circuit	short circuit	short-circuit
	current	instantaneous	breaking	breaking	breaking	breaking
		short-circuit	capacity	capacity	capacity	capacity
		current setting	at Ue=400V	at Ue=400V	at Ue=690V	at Ue=690V
	In (A)	li (A)	Ics (kA)	Icu (kA)	Ics (kA)	Icu (kA)
MO165-16	16	240	100	100	10	10
MO165-20	20	300	100	100	10	10
MO165-25	25	375	100	100	10	10
MO165-32	32	480	100	100	10	10
MO165-42	42	630	50	50	10	10
MO165-54	54	810	30	50	6	8
MO165-65	65	975	30	50	6	8
MO165-73	73	1022	30	30	6	8
MO165-80	80	1120	30	30	6	8
MS165-16	1016	240	100	100	10	10
MS165-20	1420	300	100	100	10	10
MS165-25	1825	375	100	100	10	10
MS165-32	2332	480	100	100	10	10
MS165-42	3042	630	50	50	10	10
MS165-54	4054	810	30	50	6	8
MS165-65	5265	975	30	50	6	8
MS165-73	6273	1022	30	30	6	8
MS165-80	7080	1120	30	30	6	8

Auxiliary Contacts:

front mounted auxiliary contact: HKF1-11

right 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

Shunt release: AA1

Undervoltage release: UA1 (only modules manufactured after week 28 of the year 2003,

see indication on the module in the format YWWY)

Place of manufacture

ABB Xinhui Low Voltage Switchgear Co. Ltd. Jinguzhou Industrial Development Zone Xinhui District, JiangMen, Guangdong 529100 China

Application/Limitation

Location classes:

Temperature B
Humidity B
Vibration A
EMC B

Enclosure A / housing: IP 20, terminals: IP 10

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Type Approval documentation

Test Report No. 15-7022 dated 09th Sept. 2015

Test Report No. LAB201312-02-TR-10 dated 26th Sept. Dec. 2013

Test Protocol No. TT2015054 dated 21st July 2015 Test protocol No. D2015030 dated 30th Oct. 2015

CB Test Report 00901-CB2021CQC-096131-2 dated 2021-03-10 CB Test Report 00901-CB2021CQC-096131-1 dated 2021-03-10

CB Test Certificate No. CN53128, dated 31st March 2021

Ex Type Approval Certificate BVS 15 ATEX F 004

Data Sheet 2CDC131083D0201(2015-03-27) Data Sheet 2CDC131084D0201(2015-03-27)

Installation Instruction: 2CDC131081M6801 (I) / 06.2021

Catalogue: 1SBC001008C0115 rev. G 10/2021 Drawings: 1SA M40 0402 A.2, 1SA M40 0401 A.9

Type Approval Assessment Report issued at Augsburg on 2022-05-17

Tests carried out

Type tests according to DNV-CP-0396, IEC 60947-2 and IEC 60947-4-1

Marking of product

Type designation – Serial Number - Manufacturer Name

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the type are complied with, and that no alterations are made to the product design or choice of systems, software versions, components and/or materials.

The main elements of the assessment are:

- Ensure that type approved documentation is available
- Inspection of factory samples, selected at random from the production line (where practicable)
- Review of production and inspection routines, including test records from product sample tests and control routines
- Ensuring that systems, software versions, components and/or materials used comply with type approved documents and/or referenced system, software, component and material specifications
- Review of possible changes in design of systems, software versions, components, materials and/or performance, and make sure that such changes do not affect the type approval given
- Ensuring traceability between manufacturer's product type marking and the type approval certificate

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE

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