



Marine & Offshore

Certificate number: 06358/F0 BV

File number: ACE 2/114/1

Product code: 2633H

This certificate is not valid when presented without the full attached schedule composed of 7 sections

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TYPE APPROVAL CERTIFICATE

This certificate is issued to

ABB STOTZ-KONTAKT GmbH

Heidelberg - GERMANY

for the type of product

CIRCUIT BREAKERS (LOW VOLTAGE)

Manual Motor Starter

MS325 series

Requirements:

Bureau Veritas Rules for the Classification of Steel Ships

IEC 60947-2:2013, IEC 60947-4-1:2012

This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate will expire on: 02 Feb 2023

For Bureau Veritas Marine & Offshore,

At BV HAMBURG, on 02 Feb 2018,

Dirk Hoepfner



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

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BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION:

MS 325 series are circuit breakers with thermal and electromagnetic protection.

1.1 - Main characteristics:

Rated voltage: 690V AC
 Number of poles: 3
 Degree of protection: IP20 (Terminal compartment: IP00)
 Utilization category: AC 3

1.2 - Manual Motor Starters - Type design MS 325 0.16 up to 9.

Type	Thermal setting range	Breaking capacity (kA)		
		380-400V AC	500V AC	660-690V AC
MS 325 - 0.16	0.1 - 0.16A	100	100	100
MS 325 - 0.25	0.16 - 0.25A	100	100	100
MS 325 - 0.4	0.25 - 0.4A	100	100	100
MS 325 - 0.63	0.4 - 0.63A	100	100	100
MS 325 - 1	0.63 - 1.0A	100	100	100
MS 325 - 1.6	1.0 - 1.6A	100	100	100
MS 325 - 2.5	1.6 - 2.5A	100	100	40
MS 325 - 4	2.5 - 4.0A	100	60	10
MS 325 - 6.3	4.0 - 6.3A	100	40	7
MS 325 - 9	6.3 - 9.0A	100	30	5

1.3 - Manual Motor Starters - Type design MS 325 12.5 up to 25.

Type	Thermal setting range	Breaking capacity (kA)		
		380-400V AC	500V AC	660-690V AC
MS 325 - 12.5	9.0-12.5A	75	27	4,5
MS 325 - 16	12.5 - 16.0A	60	25	4
MS 325 - 20	16.0-20.0A	55	22	3,5
MS 325 - 25	20.0 - 25.0A	50	20	3

1.4 - Accessories:

Auxiliary Contact: HK-.. Number of poles: 2; Rated voltage: 400V AC; Ith: 6A
 Pilot Contact: SK-.. Number of poles: 2; Rated voltage: 400V AC; Ith: 6A

2. DOCUMENTS AND DRAWINGS:

- 1SBC100167C0201 dated 09.2012

Note: Documents filed in ACE2/114/1.

3. TEST REPORTS:

CQC: - Test certificate: CN41143 dated Sep.01,2017

ABB STOTZ Kontakt: - 4499/08 dated 02.07.2008

Note: Documents filed in ACE2/114/1.

4. APPLICATION / LIMITATION:

4.1 - Bureau Veritas Rules and Regulations for the Classification of Steel Ships.

4.2 - Bureau Veritas Environmental Category, **EC Code: 31**

5. PRODUCTION SURVEY REQUIREMENTS:

5.1 - The above mentioned products are to be supplied by **ABB STOTZ KONTAKT GmbH** in compliance with the type described in this certificate.

5.2 - This type of product is within the category HBV of Bureau Veritas Rule Note NR320 and as such does not require a BV product certificate.

5.3 - **ABB STOTZ KONTAKT GmbH** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products.

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1, Varna Str.
2850 Petrich
BULGARIA

5.4 - Equipment is to be supplied with manual(s) for installation, use and maintenance.

6. MARKING OF PRODUCT:

According to IEC 60947 specifications.

7. OTHERS:

7.1 - It is the responsibility of **ABB STOTZ KONTAKT GmbH** to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

7.2 - This certificate supersedes the Type Approval Certificate N° 06358/E1 BV issued on 20 Jun 2014 by the Society.

***** END OF CERTIFICATE *****