



TYPE APPROVAL CERTIFICATE

Certificate No:
TAE000018M
Revision No:
1

This is to certify:

That the Contactor

with type designation(s)
B6, B7, VB6, VB7

Issued to

ABB Stotz-Kontakt GmbH
Heidelberg, Baden-Württemberg, Germany

is found to comply with

DNV rules for classification – Ships, offshore units, and high speed and light craft

Application :

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.

Rated voltage (V) up to 690
Rated current (A) 5.5 - 7 (500 V /AC3)
Frequency (Hz) 50 - 60

Issued at **Hamburg** on **2022-08-03**

for **DNV**

This Certificate is valid until **2027-08-02**.

DNV local station: **Augsburg**

Approval Engineer: **Thomas Hartmann**

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Arne Schaarmann
Head of Section

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.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Product description

Contactor type: B6, B7, VB6, VB7

Main contacts:

| Type designation | AC1 230/240 V I _e (A) | AC1 400/440 V I _e (A) | AC1- 500 V I _e (A) | AC1- 690 V* I _e (A) |
|------------------|-------------------------------------|-------------------------------------|----------------------------------|-----------------------------------|
| B6, VB6 | 20 @40°C/16 @55°C | 20 @40°C/16 @55°C | 12 | 6 |
| B7, VB7 | 20 @40°C/16 @55°C | 20 @40°C/16 @55°C | 12 | 6 |

| Type designation | AC3 230/240 V P (kW) | AC3 400/440 V P (kW) | AC3- 500V P (kW) | AC3- 690V* P (kW) |
|------------------|-------------------------|-------------------------|---------------------|----------------------|
| B6, VB6 | 2,2 | 4 | 4 | 3 |
| B7, VB7 | 3 | 5,5 | 4 | 3 |

* See application /limitation

- Rated operational voltage U_e: 24 - 690 V AC
- Rated insulation voltage U_i: 690 V

Auxiliary contacts:

- Conventional free air current I_{th}: 6 A
- Rated operational voltage U_e: 12 - 500 V AC, 12 - 240 V DC

Coil systems:

- Rated control voltage U_c/AC: 24 - 415 V
- Rated control voltage U_c/DC: 12 - 220 V

The contactor B6/B7-S ... can be used in conjunction with programmable logic controller.

Application/Limitation

Temperature class: D (-25 to 70°C)
 Humidity class: A (up to 96% humidity)
 Vibration class: A (5-100 Hz)

The contactor(s) can be used in applications with directly earthed systems with rated voltage up to 400/690V. For isolated systems the rated system voltage is limited to 600V (U_{imp}=6kV).

Type Approval documentation

Test reports:

ABB DESST reports: SST/TN2-94.01, SST/TN2-93.07, SST/TN2-93.02a, SST/TN2-93.04, SST/TN2-93.04a, Canadian Standards Association Report LR 15332-70, RMS Test Report No. 3-11 / 94, LOVAG Test report no. AN SST/TE 52/2000, dated 2000-08-14.
 CB Test Certificate NL6280/1.

Technical info:

ABB Catalog "Main catalog-July 2016 Motor protection and control- Manual motor starters, contactors and overload relays" (1SBC100192C0205); Product catalogue 2CDC001008C0115 Rev. G; Installation instructions 2CDC102047M6802 (b)

Tests carried out

Type tests according to IEC 60947-4-1 Sequence I, II, III, IV and V. Power supply variations, Inclination test, Vibration test, Insulation resistance test, Damp heat test, Dry heat test, Low temperature test and high voltage test.

Marking of product

ABB STOTZ-KONTAKT GmbH – Type designation – Rated voltage – Breaking capacity.



Job Id: **262.1-005786-10**
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Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the Type approval are complied with and that no alterations are made to the product design or choice of materials.

The main elements of the assessment are:

- Inspection on factory samples, selected at random from the production line (where practicable)
- Results from Routine Tests (RT) checked (if not available tests according to RT to be carried out)
- Review of type approval documentation
- Review of possible change in design, materials and performance
- Ensuring traceability between manufacturer's product type marking and 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