DNV·GL

Certificate No:
TAE000018G

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Overcurrent- and Short-Circuit Relay

with type designation(s)
T16, TF42

Issued to
ABB Stotz-Kontakt GmbH
HEIDELBERG, Germany

is found to comply with
DNV GL 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 GL.

This Certificate is valid until **2022-03-19**.

Issued at **Hamburg** on **2017-03-20**
DNV GL local station: **Augsburg** for **DNV GL**

Approval Engineer: **Thomas Hartmann**

Duy Nam Le
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.

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Job Id:
Certificate No: **TAE000018G**

Product description

Type: Thermal Overload Relay T16, TF42 for protection of motors against overload and phase failure.

Type Designation	Current range	Short Circuit protection device coord. Type 2	Type Designation	Current range	Short Circuit protection device coord. Type 2
T16-0.13	0,10…0,13 A	0,5 A- Type T	TF42-0.13	0,10…0,13 A	0,5 A- Type T
T16-0.17	0,13…0,17 A	1,0 A- Type T	TF42-0.17	0,13…0,17 A	1,0 A- Type T
T16-0.23	0,17…0,23 A	1,0 A- Type T	TF42-0.23	0,17…0,23 A	1,0 A- Type T
T16-0.31	0,23…0,31 A	1,0 A- Type T	TF42-0.31	0,23…0,31 A	1,0 A- Type T
T16-0.41	0,31…0,41 A	2,0 A- Type gG	TF42-0.41	0,31…0,41 A	2,0 A- Type gG
T16-0.55	0,41…0,55 A	2,0 A- Type gG	TF42-0.55	0,41…0,55 A	2,0 A- Type gG
T16-0.74	0,55…0,74 A	4,0 A- Type gG	TF42-0.74	0,55…0,74 A	4,0 A- Type gG
T16-1.0	0,74…1,0 A	6,0 A- Type gG	TF42-1.0	0,74…1,0 A	6,0 A- Type gG
T16-1.3	1,00…1,30 A	6,0 A- Type gG	TF42-1.3	1,00…1,30 A	6,0 A- Type gG
T16-1.7	1,30…1,70 A	10,0 A- Type gG	TF42-1.7	1,30…1,70 A	10,0 A- Type gG
T16-2.3	1,70…2,30 A	10,0 A- Type gG	TF42-2.3	1,70…2,30 A	10,0 A- Type gG
T16-3.1	2,30…3,10 A	10,0 A- Type gG	TF42-3.1	2,30…3,10 A	10,0 A- Type gG
T16-4.2	3,10…4,20 A	20,0 A- Type gG	TF42-4.2	3,10…4,20 A	20,0 A- Type gG
T16-5.7	4,20…5,70 A	20,0 A- Type gG	TF42-5.7	4,20…5,70 A	20,0 A- Type gG
T16-7.6	5,70…7,60 A	35,0 A- Type gG	TF42-7.6	5,70…7,60 A	35,0 A- Type gG
T16-10	7,60 …10,0 A	35,0 A- Type gG	TF42-10	7,60 …10,0 A	35,0 A- Type gG
T16-13	10,0 …13,0 A	40,0 A- Type gG	TF42-13	10,0 …13,0 A	40,0 A- Type gG
T16-16	13,0 …16,0 A	40,0 A- Type gG	TF42-16	13,0 …16,0 A	40,0 A- Type gG
			TF42-20	16,0 … 20,0 A	63,0 A- Type gG
			TF42-24	20,0 … 24,0 A	63,0 A- Type gG
			TF42-29	24,0 … 29,0 A	63,0 A- Type gG
			TF42-35	29,0 … 35,0 A	80,0 A- Type gG
			TF42-38	T_u<50°C 35,0 … 40,0 A	80,0 A- Type gG
			TF42-38	T_u>50°C 35,0 … 38,0 A	80,0 A- Type gG

Application/Limitation

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

The product(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

Tests carried out

Type tested according to IEC 60947-4-1 & IEC 60947-5-1 and CP-0396.

Marking of product

ABB STOTZ-KONTAKT - Type designation.

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