DNV·GL

Certificate No:
TAE0000269

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Disconnection Switch

with type designation(s)
T0, T3

Issued to
Eaton Industries GmbH
Bonn Nordrhein-Westfalen, 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.

Issued at **Hamburg** on **2017-10-06**
This Certificate is valid until **2022-10-05**.
DNV GL local station: **Essen**

for **DNV GL**

Approval Engineer: **Harald Amberger**

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: **262.1-025578-1**
Certificate No: **TAE0000269**

Product description

Switch-Disconnector (cam switch)

Type: T0

Rated current Iu: 20 A
Rated voltage Ue: 660 V
Rated frequency: 50 / 60 Hz
Insulation class according to VDE 0110: C / 660 V

Short-circuit capacity at: 220 V - 500 V
- making: 0.3 kA - 0.3 kA
- breaking: 0.1 kA - 0.08 kA
- power factor cos phi: 0.35 - 0.35

Rated surge-current: 1.8 kA (peak asymmetrical)
Short-time current: 0.24 kA (r.m.s. symmetrical)
Test sequence AC 3

Stored energy operation: no

Type: T3

Rated current Iu: 32 A
Rated voltage Ue: 660 V
Rated frequency: 50 / 60 Hz
Insulation class according to VDE 0110: C / 660 V

Short-circuit capacity at: 220 V - 500 V
- making: 0.26 kA - 0.26 kA
- breaking: 0.24 kA - 0.24 kA
- power factor cos phi: 0.35 - 0.35

Rated surge-current: 1.2 kA (peak asymmetrical)
Short-time current: 0.64 kA (r.m.s. symmetrical)
Test sequence AC 3

Stored energy operation: no

Application/Limitation

Location Classes:
Temperature: A, Humidity: A, Vibration: A

Operating instruction of the manufacturer to be observed

Type Approval documentation

Tests carried out

IEC 60947-1, 60947-3, cold, dry heat, damp heat, vibration, flame retardancy

Marking of product

Manufacturer’s identification - Type designation - Rated voltage - Rated current

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