DNV·GL

Certificate No:
TAE000035U

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Disconnection Switch

with type designation(s)
GSec/T1..., GSec/IB...

Issued to
ABB S.p.A. - Distribution Solutions
Dalmine, BG, Italy

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 **2018-09-06**
This Certificate is valid until **2023-07-21**.
DNV GL local station: **Milan**

for **DNV GL**

Approval Engineer: **Harald Amberger**

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.

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Product description

Three-position SF6-insulated switch-disconnector (Line-Open-Earth), for UniSec switchgear
Type: GSec/T1: Single spring operating mechanism.
GSec/IB: Single spring operating mechanism, suitable for use in panels with circuit-breaker

Ratings				
Rated voltage	U_r	12kV	17,5kV	24kV
Rated normal current (40°C)	I_r	630A, 800A	630A, 800A	630A
Rated lightning impulse withstands voltage	U_p	75kV	95kV	125kV
Rated power-frequency withstands voltage	U_d	28kV	38kV	50kV
Rated frequency		50/60Hz		
Rated short time withstand current (3 s)	I_k	up to 25kA[1]	up to 20kA	up to 20kA
Further ratings and auxiliary equipment acc. manufacturer documentation.				

Application/Limitation

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

[1]Rated short time withstands current 25kA (2s)

Operating instruction of the manufacturer to be observed

Type Approval documentation

Tests carried out

IEC 62271-102:2003, IEC 62271-103:2011, dry heat, damp heat, cold, vibration

Marking of product

Acc. IEC 62271-102 subclause 6.11

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