DNV·GL

Certificate No:
TAE000023F

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Electric Bus Bar

with type designation(s)
Canalis

Issued to
Schneider Electric Industries S.A.S.
Eybens Isere, France

is found to comply with
DNV GL rules for classification – Ships, offshore units, and high speed and light craft

Application :

Bus bar trunking system for installation outside of switchboards/enclosures onboard ships and offshore units. Not to be used in hazardeous zones, on open deck, in wet spaces such as cargo holds and below floor plates in engine rooms.

Products approved by this certificate are accepted for installation on all vessels classed by DNV GL.

Issued at **Høvik** on **2017-07-07**
This Certificate is valid until **2018-06-30**.
DNV GL local station: **Marseille**

Approval Engineer: **Marta Alonso Pontes**

for **DNV GL**

Andreas Kristoffersen
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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Place of manufacturer

Schneider Electric France
6 - 8 Rue du Bailly, BP 97812
21078 DIJON Cedex

Product description

Busbar Trunking System Type Canalis®

Technical data:

Type	KBA/KBB	KN	KS
Bus-bar material: Envelope	Prepainted	Prepainted	Prepainted
Conductor material	Copper	Sea water resistant Aluminium	Sea water resistant Aluminium
Rated insulation voltage (V)	230/400	500	690
Rated operating Voltage (V)	230/400	500	690
Current (A)	25/40	40, 63, 100, 160	100, 160, 250,400, 500, 630, 800, 1000
Rated short circuit capacity (kA)-rms (Icw)	0.44, 0.94	0.5, 1.3, 2.8, 2.8	2.6, 4.4, 10, 18.8, 26.2, 32.1, 37.4, 37.4
Rated short circuit capacity (kA)- I peak	4.4, 9.6	6, 11, 14, 20	15.7, 22, 28, 49.2, 55, 67.5, 78.7, 78.7
Degree of protection	IP 55	IP 55	IP 55
Frequency (Hz)	50/60	50/60	50/60

Application/Limitation

Current ratings given are for nominal temperature of 35 °C. When used for ship and offshore nominal current ratings to be modified for ambient conditions temperature of 45 °C.

Installation and use shall be in accordance with DNV GL Rules and Schneider installation procedures. If branched of without use of protection the max. current and protection is 16 A.

Approved for A0 and A60 bulkhead penetrations.

Type Approval documentation

Tests carried out

Vibration, humidity, temperature and fire tests. Type tests according to IEC61439-1 & 6. KDP flame retardant test in accordance with IEC 60332-3.

Marking of product

Canalis®- Type designation, nominal voltage and current.

Periodical assessment

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

The main elements of the survey are:

- Inspection on factory samples, selected at random from the production line (where practicable)
- Results from Production Sample Tests (PST) and Routines (RT) checked (if not available tests according to PST and 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.

Survey to be performed at least every second year.

END OF CERTIFICATE