DNV·GL

Certificate No:
TAA0000229

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Burner Management System

with type designation(s)
LOK 16...., LAL...., LFL 1.335

Issued to
Siemens AG
Rastatt, 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.

Temperature	**B**
Humidity	**B**
Vibration	**A**
EMC	**A**
Enclosure	**IP40**

Issued at **Hamburg** on **2018-10-24**
This Certificate is valid until **2023-10-23**.
DNV GL local station: **Augsburg**

Approval Engineer: **Andreas Andrecht**

for **DNV GL**

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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Job Id: **262.1-029256-1**
Certificate No: **TAA0000229**

Product description

Burner control systems for burners of medium to high capacity

LOK16.... Automatic burner control system for continously operating oil burners of medium to high capacity, with photocell detector RAR7/RAR8/RAR9
Rated voltage: 230 V AC (110 V AC)
Rated frequency: 50 - 60 Hz, Degree of Protection: IP 40

LAL..... Automatic burner control system designed for use with atomizing flame burners of medium to high capacity, with photocell detector RAR7/RAR8/RAR9
Rated voltage: 230 V AC (100 - 110 V AC)
Rated frequency: 50 - 60 Hz, Degree of Protection: IP 40

LFL1.335 Automatic burner control system for gas, oil or dual-fuel burners of medium to high capacity in intermittend operation, UV-detector QRA
Rated voltage: 230 V AC (110 V AC)
Rated frequency: 50 - 60 Hz, Degree of Protection: IP 40

Type Approval documentation

Tests carried out

Guidlines for the Performance of Type Approvals Edition 2003,
DIN EN298 (1994), DIN EN 230 (1991)

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