DNV·GL

Certificate No:
TAE00003WD

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Transformer

with type designation(s)
Serie MTS

Issued to
Murrelektronik GmbH
Oppenweiler, 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 **2020-06-19**
This Certificate is valid until **2025-06-18**.
DNV GL local station: **Augsburg**

Approval Engineer: **Harald Amberger**

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: **262.1-032880-1**
Certificate No: **TAE00003WD**

Product description

Single phase transformers for installation in switch cabinets, control panels

Series MTS specified by Article no. 86 followed by three or four digits.

NOMENCLATURE:

MTS	aaaa	bb	b'b'
I	II	III	IV

I Series designation
II Power in VA (max. 0025 … 5000)
III Primary Winding Voltage rating
IV Secondary Winding Voltage rating

Ratings based on manufactuer's data sheet.

Rated power:	25 … 5000VA
Input (primary voltage):	max. 600V AC (typical 230V AC/400V AC)
Output (secondary voltage):	max. 600V AC (typical 12/24/115/2x24/2x115V AC) multiple tappings are possible
Frequency:	50/60Hz

Application/Limitation

Location Classes:
Temperature: B, Humidity: B, Vibration: A, IP00 (devices for indoor only)

Operating instruction of the manufacturer to be observed

Type Approval documentation

Tests carried out

Environmental tests acc. DNVGL-CG-0339

Marking of product

Murrelektronik GmbH - Type designation - Main data.

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