

# TYPE APPROVAL CERTIFICATE

**This is to certify:****That the Electrical Equipment**with type designation(s)  
**Combi MAR XXXX**

Issued to

**WISKA Hoppmann GmbH**  
**Kaltenkirchen, 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**Issued at **Hamburg** on **2019-09-05**for **DNV GL**This Certificate is valid until **2024-09-04**.DNV GL local station: **Hamburg**Approval Engineer: **Uwe Supke**.....  
**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.



Job Id: **262.1-025459-2**  
Certificate No: **TAE00002SF**  
Revision No: **1**

## Product description

Junction Boxes:	Combi MAR 108	76 x 76 x 51 mm
	Combi MAR 308	85 x 85 x 51 mm
	Combi MAR 607	110 x 110 x 66 mm
	Combi MAR 1010	140 x 140 x 81 mm
	Combi MAR 1210	160 x 140 x 81 mm
Material:	thermoplast polypropylene, thermoplastic elastomere UL94, V0	
Ingress protection:	IP66 / IP67	
Voltage:	400V/ 690V	

## Application/Remarks

Installation instruction of the manufacturer to be followed.

## Type Approval documentation

Test report: Wiska FQ SS PP 07-14: 2014, Paconsult no. 1149-06: 2006

Data sheets Combi Maritim 1010, 308, 607, 108, 1210: 2014

VDE Certificates 40029965, 40030256, 124285, 93825

## Tests carried out

Applicable tests according to DNVGL Guideline DNVGL-CG-0339, Edition November 2016  
IEC 60670-1:2002, IEC 60670-22:2003

## Marking of product

The products to be marked with:

- Manufacturer name
- Model name
- Power supply ratings
- Degree of protection

## 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