



TYPE APPROVAL CERTIFICATE

Certificate No:
TAE00001NY
Revision No:
1

This is to certify:

That the **Electrical Equipment**

with type designation(s)
VARITAIN® OneTouch ECO **/FS/FS/32A/kA**

Issued to
WISKA Hoppmann GmbH
Kaltenkirchen, Germany

is found to comply with
DNV 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.

Temperature from -25°C to +45°C
Humidity up to 95%
Vibration A

Issued at **Høvik** on **2022-02-15**

This Certificate is valid until **2027-02-14**.

for **DNV**

DNV local station: **Hamburg**

Approval Engineer: **Maik Gagern**

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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.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Product description

Socket-Outlet-System for reefer containers with or without monitoring outlets
VARITAIN ONE TOUCH ECO with max. 10 outlets for fixed installation

Each CEE socket outlet: 3 pole + E, max. 500V AC, 32 A
Brass or plastic socket outlet with circuit breaker WISKA- MCCB-.... and mechanical interlocking
Material of distribution casing: stainless steel W.N. 1.4301(SUS 304) coated or 1.4571 (SUS 316)
Rated frequency: 40...60Hz
Degree of protection: IP 56/67

Rated short circuit making and breaking capacity:

- WISKA- MCCB-10kA Icm/Icu:400V/105/50kA, 440V/17/10kA, 500V/17/10kA
- WISKA-MCCB-25kA Icm/Icu: 400V/105/50kA, 440V/52.2/25kA, 500V/17/10kA
- WISKA- MCCB-10kA, -25kA + CL-PKZ0 Icm/Icu:440V /220/100kA, 440V/220/100kA

Alternatively with:

- monitoring outlet socket outlet for general use 16
- looping connection for power supply phase failure relay
- power On/Off sight device

Application/Limitation

Monitoring (computer) systems are not subject to this approval.
Operating instruction of the manufacturer to be observed.

Type Approval documentation

Tests carried out

Applicable tests according to Class guideline DNV-CG-0339, August 2021.
Applicable tests according to IEC 60529: 2000, IEC 60309:1999, ISO 1496-2:1996.

Marking of product

The products to be marked with:

- Manufacturer name
- Model name
- Serial number

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:

- Ensure that type approved documentation is available
- Inspection of factory samples, selected at random from the production line (where practicable)
- Review of production and inspection routines, including test records from product sample tests and control routines
- Ensuring that systems, software versions, components and/or materials used comply with type approved documents and/or referenced system, software, component and material specifications
- Review of possible changes in design of systems, software versions, components, materials and/or performance, and make sure that such changes do not affect the type approval given
- Ensuring traceability between manufacturer's product type marking and the 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