

TYPE APPROVAL CERTIFICATE

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 GL rules for classification – Ships

Application :

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

Temperature from -25°C to +45°C

Humidity up to 95%

Vibration A

This Certificate is valid until **2022-02-14**.

Issued at **Hamburg** on **2017-02-15**

DNV GL local station: **Hamburg**

for **DNV GL**

Approval Engineer: **Andrea Grün**

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Joannis Papanuskas
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: **262.1-024161-1**
Certificate No: **TAE00001NY**

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 freq: 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, 500V17/10kA
- WISKA- MCCB-10kA, -25kA + CL-PKZ0 Icm/Icu:440V /220/100kA,440V/220/100kA

alternatively with:

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

Application/Limitation

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

Type Approval documentation

Specification -Varitain One Touch ECO- dated Rev.10-06

Tests carried out

Applicable tests according to Class guideline DNVGL-CG-0339, November 2016.
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