DNV·GL

Certificate No:
TAE00002U4

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Socket Outlet

with type designation(s)
CEE Sockets with Plugs

Issued to
Bals Elektrotechnik GmbH & Co. KG
Kirchhundem-Albaum, 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.

Rated voltage (V)	**380 / 440 VAC**
Rated current (A)	**32 A**
Degree of protection	**IP 67**

Issued at **Hamburg** on **2017-10-15**
This Certificate is valid until **2022-10-14**.
DNV GL local station: **Essen**

Approval Engineer: **Maik Gagern**

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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Product description

CEE – Socket Outlets with Plugs
3 poles + PE, 380 / 440 VAC, 50 / 60 Hz, 32 A
Thermoplastic Enclosure
Degree of protection: IP 67
Types:

16 050 -	Socket-outlet (switched, mechanical interlocked)
17 026 -	Socket-outlet (switched, mechanical interlocked, with DIN rail)
21 0824 -	Plug
21 232 – TLQ -	Plug
21 485 -	Plug GT
21 48509 -	Plug
27 027 -	Panel-mounting appliance inlet
31 423 -	Connector GT
31 186 -TLQ -	Connector
31 0426 -	Connector
31 0567 -	Connector

Application/Limitation

Temperature Class: C
Humidity Class: B
Vibration Class: A
Suitable for installation on open deck

Type Approval documentation

Tests carried out

DNV GL Class Guideline DNVGL-CG-0339, Edition Nov. 2016
IEC 60309-1:1999+A1:2005+A2:2012

Marking of product

Maker, Type, Rated Voltage, Rated Current

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