

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Socket Outlet**

with type designation(s)

HF-RILSB, HF-RILSB2.1, HF-123RSB, HF-123RSBSCS1.1

Issued to

Hans Følsgaard A/S
Køge, Denmark

is found to comply with

DNV GL rules for classification – Ships, offshore units, and high speed and light craft**Application :****Products approved by this certificate are accepted for installation on all vessels classed by DNV GL.**

Type	Rated voltage (V)	Rated current (A)	Enclosure protection
HF-RILSB	440	2x20 / 32	IP67 / IK10
HF-RILSB2.1	440	2x20 / 32	IP67 / IK10
HF-123RSB	440	3x20 / 32	IP67 / IK10
HF-123RSBSCS1.1	440	3x20 / 32	IP67 / IK10

This Certificate is valid until **2022-03-22**.Issued at **Høvik** on **2017-03-31**DNV GL local station: **Copenhagen**for **DNV GL**Approval Engineer: **Marta Alonso Pontes**

Andreas Kristoffersen
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:
Certificate No: **TAE00001DC**

Name and place of manufacturer

DNVGL customer ID: 10585259

Product description

HF Reefer 1-2 Interlock Splitter box.

Housing	PC+PBT
Ambient temperature	-25°C up to 45°C
Circuit breaker type	NB1-63H D20 2x20A
Rated short circuit current	10kA

HF Reefer 1-3 Interlock Splitter box.

Housing	PC+PBT
Ambient temperature	-25°C up to 45°C
Circuit breaker type	NB1-63H D20 3x20A
Rated short circuit current	10kA

Application/Limitation

Operation instruction of the manufacturer to be observed.

MSC.1/Circ.1352 should be taken into account when installing on a vessel if mandatory by the Flag Administration.

Type Approval documentation

Tests carried out

Tested according to IEC62208:2011 and IEC60947-3:2008+A1:2012+A2:2015

Marking of product

Manufacturer identification – type designation – rating.

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