DNV·GL

# TYPE APPROVAL CERTIFICATE

Certificate No:
**TAE00001N1**
Revision No:
**2**

## This is to certify:

**That the Enclosure for Electrical Equipment**

with type designation(s)
**ASR, ADR & AFS**

Issued to
**Hoffman Enclosures Inc.**
**Anoka, MN, USA**

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.**

| | |
|---|---|
| **Degree of protection** | **ASR IP66, ADR IP55 & AFS IP66** |
| **Vibration class** | **A** |

Issued at **Høvik** on **2020-12-07**

This Certificate is valid until **2022-12-31**.
DNV GL local station: **Houston**

Approval Engineer: **Nicolay Horn**

for **DNV GL**
Digitally Signed By: Alonso Pontes, Marta
Location: DNV GL Høvik, Norway

**Marta Alonso Pontes**
**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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## Name and place of manufacturer

| | |
|---|---|
| ELDON Romania SRL<br>Calle Bruxelles no. 4<br>Industrial Park Graells & Llonch Prejmer<br>507165 - Prejmer<br>Brasov, Romania | Hoffman Schroff Manufacturing S. de R.L. de C.V.<br>Ave. Industrial Falcon 6-8,<br>Parque Industrial del Norte,<br>88736 Reynosa, Tamaulipas, Mexico |

## Product description

Stainless steel enclosures Type ASR

Dimensions:
Min: H x W x D = 180 x 240 x 150 and 300 x 200 x 150
Max: H x W x D = 1400 x 800 x 400

Stainless steel enclosures Type ADR

Dimensions:
Min: H x W x D = 1000 x 1000 x 300
Max: H x W x D = 1200 x 1200 x 400

Stainless steel enclosures Type AFS

Dimensions:
Min: H x W x D = 300 x 200 x 155
Max: H x W x D = 1400 x 800 x 400

## Application/Limitation

Enclosure protection: IP 66 for ASR and AFS, IP 55 for ADR, IP 55 for ASR/AFS when suited together,

## Type Approval documentation

Catalogue: 'Product_Catalogue_nVent_Hoffman_ENG' (parts).

Drawings: See catalogue.

Test reports: KEMA No. 92.9318.50 dated 1993-08-27, Enclosure systems C-ENC-9601-02500EX (only relevant for AS, ASR, AD and ADR), KEMA No. 92.9318-KCS/TC 93-1006 dated 94-06-21 and KEMA No. 2086918.50, dated 2008-01-28.

## Tests carried out

Type tests in accordance with IEC 62208: Enclosure protection (IP), impact and static load test. Vibration test (Pt.4, Ch.8.).

## Marking of product

nVent Hoffman or Hoffman or nVent Schroff or Schroff – Type designation – Manufacturing place / country

## 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.

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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