**DNV-GL** 

# TYPE APPROVAL CERTIFICATE

Certificate No: **TAE00002FY** Revision No: **1** 

This is to certify:

That the Enclosure for Electrical Equipment

with type designation(s)

MAS & MAD

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 MAS IP66, MAD IP55 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

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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: **262.1-000247-7**Certificate No: **TAE00002FY** 

Revision No: 1

## Name and place of manufacturer

ELDON Romania SRL
Calle Bruxelles no. 4
Industrial Park Graells & Llonch Prejmer
507165 - Prejmer
Brasov, Romania

Hoffman Schroff Manufacturing S. de R.L. de C.V.
Ave. Industrial Falcon 6-8,
Parque Industrial del Norte,
88736 Reynosa, Tamaulipas, Mexico

# **Product description**

Steel metal wall mounted enclosures Type MAS and MAD

Dimensions MAS mm:

Min:  $H \times W \times D = 200 \times 200 \times 155$ Max:  $H \times W \times D = 1200 \times 800 \times 400$ 

Dimensions MAD mm:

Min:  $H \times W \times D = 600 \times 800 \times 300$ 

Max:  $H \times W \times D = 1200 \times 1200 \times 300$  and  $1400 \times 1000 \times 300$ 

## Application/Limitation

Enclosure protection: MAS IP66, MAD IP55

### Type Approval documentation

Catalogue: 'Product\_Catalogue\_nVent\_Hoffman\_ENG' (parts).

Drawing: See catalogue.

Test reports: KEMA No. 92.9318.50 dated 1993-08-27, Enclosure systems C-ENC-9601-02500EX,

KEMA No. 92.9318-KCS/TC 93-1006 dated 1994-06-21 & KEMA No. 2086918.50, dated

2008-01-28. TNO Report CMC-2004-R039, dated 2004-08-04

#### **Tests carried out**

Type testing 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.

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.