



TYPE APPROVAL CERTIFICATE

Certificate No:
TAE00002FY
Revision No:
4

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 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.

Degree of protection MAS IP66, MAD IP55
Vibration class A

Issued at **Høvik** on **2023-11-10**

for **DNV**

This Certificate is valid until **2027-12-31**.

DNV local station: **Houston**

Approval Engineer: **Nicolay Horn**

Frederik Tore Elter
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.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



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
Hoffman Schroff Poland Sp.z.o.o Strefowa 10, Dzierzoniow 58-200 Poland	nVent Electrical Products China Co., Ltd. No. 39A Xiangjiang 2 nd Road Jimo District Qingdao P.R. China
nVents Electrical Products India Pvt Ltd Plot No. 19B, Phase 2, Sector 1. Shyanamangala Cross, KIADB Industrial Area, Bidadi, Ramanagara, Karnataka, 562109, India	

Product description

Steel metal wall mounted enclosures Type MAS and MAD

Dimensions MAS mm:

Min: H x W x D = 200 x 200 x 155

Max: H x W x D = 1200 x 800 x 400

Dimensions MAD mm:

Min: H x W x D = 600 x 800 x 300

Max: H x W x D = 1200 x 1200 x 300 and 1400 x 1000 x 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.

END OF CERTIFICATE