

# TYPE APPROVAL CERTIFICATE

## This is to certify:

**That the Enclosure for Electrical Equipment**

with type designation(s)  
**CUBIC Steel cabinets, P2 and P3**

Issued to  
**CUBIC-Modulsystem A/S**  
**BRØNDERSLEV, Denmark**

is found to comply with  
**DNV GL rules for classification – Ships and offshore units**  
**DNV GL rules for classification – High speed and light craft**

## Application :

**Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.**

**Enclosure protection**    **IP 44 / IP54 / IP 66**  
**Vibration class**            **A**

This Certificate is valid until **2021-06-30**.

Issued at **Høvik** on **2016-09-06**

DNV GL local station: **Aalborg**

Approval Engineer: **Marta Alonso Pontes**

for **DNV GL**

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**Trond Sjøvåg**  
**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.

## Product description

CUBIC Steel cabinets with type designation P2 and P3.

Stainless steel cabinets: IP66  
Steel cabinets, box system / desk construction: IP44  
Steel cabinets, Panel system: IP54

The desk and panel constructions to be mounted according to CUBIC's Instruction Manual:

Box construction: Chapter 1  
Panel constructions: Chapter 2  
Covering: Chapter 4  
Installation Parts: Chapter 5  
19" Rack: Chapter 6  
Desk construction: Chapter 7  
MD, Draw out, Plug in: Chapter 9  
List of parts: See catalogue

## Application/Limitation

Type approval regards system design principle in accordance with IEC 60439-1, IEC 61439-1 / 2, IEC / TR 61641 and IEC 62208.

Drawings for the actual application is to be submitted for approval in each case. A product certificate normally required for the total cabinet.

## Type Approval documentation

## Tests carried out

Type tests in accordance with IEC 60439-1 / IEC 61439-2 (High voltage test, short-circuit test, temperature rise), IEC 62208 (Mechanical impact (IK-code) & Static load & lifting), IEC/ TR 61641 (arcing test), vibration test, Seismic test / earthquake simulation in accordance with IEC 60068-2-57 Test Ff, temperature and humidity test.

## Marking of product

Manufacturers name, type designation and serial number.

## 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.

Assessment to be performed at least every second year.



Job Id: **262.1-003541-4**  
Certificate No: **TAE00001B5**

END OF CERTIFICATE