Certificate no.:
TAA00003N7

TYPE APPROVAL CERTIFICATE

This is to certify:

that the DC Power Supply

with type designation(s)
DN1042, E84016

issued to
ifm electronic gmbh
Essen, Nordrhein-Westfalen, **Germany**

is found to comply with
DNV rules for classification – Ships, offshore units, and high speed and light craft

Application:

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

Type	Temperature	Humidity	Vibration	EMC	Enclosure
DN1042	B	B	A	A	A
E84016	B	B	A	A	A

Issued at **Hamburg** on **2025-07-07**
This Certificate is valid until **2029-10-29**.
DNV local unit: **Essen**

for **DNV**

Approval Engineer: **Jens Dietrich**

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 USD 300 000.

Product description
DIN-rail power supply modules:
DN1042 Input supply: 200-240V AC, Output 24-28V DC, 120W;
E84016 Input supply: 100-240V AC, Output 24-28V DC, 960W.

Approval conditions
The Type Approval covers hardware listed under Product description. When the hardware is used in applications to be classed by DNV, documentation for the actual application is to be submitted for approval by the manufacturer of the application system in each case. Reference is made to DNV rules for classification of ships Pt.4 Ch.9 Control and monitoring systems.

Application/Limitation
Instructions in the installation manual are to be observed.

Tests carried out
Applicable tests according to DNV CG-0339, August 2021

Marking of product
Ifm, type designation, ratings, serial number.

Periodical assessment
The scope of the periodical assessment is to verify that the conditions stipulated for the type are complied with, and that no alterations are made to the product design or choice of systems, software versions, components and/or materials.
The main elements of the assessment are:
Ensure that type approved documentation is available
Inspection of factory samples, selected at random from the production line (where practicable)
Review of production and inspection routines, including test records from product sample tests and control routines
Ensuring that systems, software versions, components and/or materials used comply with type approved documents and/or referenced system, software, component and material specifications
Review of possible changes in design of systems, software versions, components, materials and/or performance, and make sure that such changes do not affect the type approval given
Ensuring traceability between manufacturer's product type marking and the 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