EUROPEAN UNION RECOGNISED ORGANISATION (EU RO) MUTUAL RECOGNITION TYPE APPROVAL CERTIFICATE

Certificate No:
MRE000001K

In accordance with Article 10.1 of EU Regulation 391/2009

This Certificate is issued to
Siemens AG
Amberg, **Germany**

for
Electric motor starters other than soft starters

with type designation(s)
3RD1000...

The product is found to comply with
EU RO Mutual Recognition Technical Requirements for Electric motor starters other than soft starters

Intended service
Electric motor Starters for installation in enclosures onboard ship and offshore units

Rated Voltage (V)	**up to 480**
Rated Current (A)	**0,1 - 7**
Frequency (Hz)	**50/60**

This is to certify:

that the Product referred to herein has been inspected for the Manufacturer, pursuant to the relevant requirements of the European Union Recognised Organisation Mutual Recognition procedure, required by Article 10.1 of EU Regulation 391/2009, and has been found in accordance with those requirements.

This Certificate is valid until **2030-09-04**.

Issued at **Hamburg** on **2025-09-05**
DNV local unit: **Augsburg** for **DNV**

Approval Engineer: **Dariusz Lesniewski**

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.

Product description

SIMATIC ET 200SP e-Starter

3RD1000-0BA00.0EP0	SIMATIC ET 200SP e-Starter Basic, 0.1 – 2.0 A[1)]
3RD1000-0BB00.0EP0	SIMATIC ET 200SP e-Starter Basic, 0.7 – 7.0 A[1)]

Accessories (included):

3RD1000-1FS00-0BP0	Fan module, single fan
3RD1000-1FD00-0BP0	Fan module, double fan
3RD1000-1MB00-0BP0	Module, Basic 4DI
3RD1908-1EA00-1BP0	Heavy duty fixing[2)]
3RK1908-1CA00-0BP0	Cover unused slot
3RK1908-1DA00-2BP0	Protection cover, for feed-in energy supply

Ratings:

- Rated supply voltage	Us 24 V DC
- Rated control voltage	Uc 24 V DC
- Voltage / Power variation	@400 V AC, ±20%
- Rated operational voltage	Ue up to 480V (phase to phase)
- Rated insulation voltage	Ui 500V
- Rated impulse withstand voltage	Uimp 6KV
- Method of device mounting	Screw or rail mounting on 35mm DIN rail
- Auxiliary and main terminals	Screw- or Sprong loaded terminals
- Trip class	10A, 10E, 20E
- Electronic relay with thermal memory	
- Degree of protection	IP 20
- Pollution degree	Enclosure: 3, PCB: 2
- Operational temperature	-25°C to +60°C

Manufactured by

Siemens AG GWA
Werner-von-Siemens-Straße 48
92220 Amberg, Germany

Application/Limitation

For installation inside switchboards/enclosures[3)] onboard ships and offshore units.
Note 1): Derating from 40°C according to the manufacturer's specification to be observed (see - Product manual)
Note 2): Mounting with heavy duty fixing only (see - Product manual)
Note 3): Temperature monitoring inside cabinet required.

Type Approval documentation

Marking of product

The products to be marked with:
- manufacturer name
- serial number
- model name
- range
- power supply ratings

Other Conditions

Electrical tests in accordance with EU RO MR Technical Requirements – Electrical motor starters other than soft starters, Version 0.2.
Type tests according to IEC 60947-4-2: 2020 and IEC 60947-4-3: 2020.
Environmental tests in accordance with IACS E10 rev.9 2023

Environmental test parameters:
Temperature: -25 °C and 55°C
Vibration: ± 1mm / 0.7g
EMC: General power distribution zone
Enclosure: IP20

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 annually and at renewal of this certificate.

END OF CERTIFICATE

Generic Statement for EU RO MR Type Approval Certificate

When a product is presented with this EU RO MR Type Approval Certificate for given application, its acceptability with regards to the limitations stated in the certificate conditions defined in 1b, 1c and 1d of the applied Technical Requirement will be evaluated by the EU RO in charge of classing the ship or being in charge of the unit/system certification.

In accordance with Article 10 of Regulation (EC) No 391/2009 of the European Parliament and of the Council of 23 April 2009 "on common rules and standards for ship inspection and survey organizations", the following organizations, recognized by the EU on this date, have agreed on the technical and procedural conditions under which they will mutually recognize this certificate:

- American Bureau of Shipping (ABS);
- Bureau Veritas (BV);
- China Classification Society (CCS);
- Croatian Register of Shipping (CRS);
- DNV;
- Indian Register of Shipping (IRS);
- Korean Register (KR);
- Lloyd's Register Group Ltd. (LR);
- Nippon Kaiji Kyokai General Incorporated Foundation (ClassNK);
- Polish Register of Shipping (PRS);
- RINA Services S.p.A. (RINA).

The scheme for the mutual recognition of class certificates for materials, equipment and components laid down by Article 10(1) of Regulation (EC) No 391/2009 is only enforceable within the Union in respect of ships flying the flag of a Member State. As far as foreign vessels are concerned, the acceptance of relevant certificates remains at the discretion of relevant non-EU flag States in the exercise of their exclusive jurisdiction, notably under the United Nations Convention on the Law of the Sea (UNCLOS). (In accordance with COMMISSION IMPLEMENTING REGULATION (EU) No 1355/2014 amending Regulation (EC) No 391/2009 - recital (25)).