DNV·GL

Certificate No:
TAE00001K7

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Motor Starter

with type designation(s)
ET 200 SP

Issued to
Siemens AG GWA
Amberg, Germany

is found to comply with
DNV GL 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 GL.

Rated Voltage (V)	**500**
Rated Current (A)	**1, 3, 9, 12**
Frequency (Hz)	**50/60**

This Certificate is valid until **2021-12-13**.

Issued at **Hamburg** on **2016-12-14**

for **DNV GL**

DNV GL local station: **Augsburg**

Approval Engineer: **Jens Altmann**

Duy Nam Le
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.

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Product description

Simatic ET 200SP Motor Starter

Types	Technical data	
3RK1308…	General	
	- Standard	IEC 60947-4-2, IEC 60947-4-3, IEC 60947-5-1, DNV-CG-0339
	- Kind of equipment:	AC semiconductor Motor Starter
	- Number of poles:	3
	- Kind of current:	AC
	- Type of terminals:	Push-In terminals
	- Degree of protection:	IP20
	- Installation:	Rail mounting
	Auxiliary Circuit	
	- Rated voltage:	Ue: 24Vdc
	- Encoder Output:	100mA
	Main Circuit	
	- Rated voltage:	Ue: 500V
	- Rated insulation voltage:	Ui: 500V
	- Rated impulse withstand voltage:	Uimp: 6 kV
	- Rated frequency:	50/60Hz
	- Rated conditional short-circuit:	Iq: 55kA
	- Rated thermal current:	Ith: 1A, 3A, 9A or 12A
	- Rated current:	Ie: 1A, 3A, 9A or 12A
	- Current setting / device variants:	0.1-1A, 0.9-3A, 2.8-9A, 4-12A
	- Tripp class:	5, 10, 10A

Accessories

Types	Description
3RK1908-0AP00	- Basic units
3RK1908-1AA00-0BP0	- 3DI / LC module
3RW4928-8VB00	- Fan
3RK1908-1CA00-0BP0	- Cover for not used slot
3RK1908-1DA00-2BP0	- Protection cover for feed-in energy supply
3RK1908-1EA00-1BP0	- Heavy duty fixing

Application/Limitation

Destined for the installation in cubicles.
Temperature class D, Humidity class B, Vibration class A, EMC class B

Type Approval documentation

- EU Declaration of Conformity No.: 3331.02 issued 2016-10-18
- Tripping curves: Overload Protection Class 5 and 10 / Device Protection
- Profibus / Profinet certification
- NEA: A5E34695663A (Standard), A5E34695664A (Safety)

Documentation, Others
- Assembly drawings: A5E33755134A (Motor Starter), A5E34301660A - Base Unit
- NEA: A5E34695663A (Standard version), A5E34695664A (Safety version)
- ISO-9001-Certificate: 001108 QM08, valid until 2017-08-11
- Accreditation of SLG Lab: D-PL-15110-01-00, valid until 2018-06-23
- List of used Plastics, issued 2016-10-04
- Nomenclature Breakdown, issued 2016-10-04
- Securing Software development process, issued 2016-10-04, plus cover page of Coding Guide SP5101, issued 2016-06-15
- Manual, Manual Motor Starter, Manual System
- Catalogue Excerpt, pages 8/12 to 8/18

Tests carried out

1. Performance Test 2. Vibration 3. Dry Cold 4. Damp Heat 5. Cold 6. High Voltage 7. Performance Test 8. Power supply variation Test 9. Power supply failure Test	See test reports - No.: 6064-15-AA-16-PB003 and - No.: 6064-15-AG-16-PP003
10. Electrostatic Discharge 11. Radiated Radio Frequency 12. Conducted Audio Frequency 13. Conducted Radio Frequency 14. Fast Transient Burst 15. Slow Transient Surge 16. Radiated Emission 17. Conducted Emission 18. Performance Test	See test reports - No.: 16-E006283-BM-B01 and - No.: 16-E006283-BM-E01
IEC type Tests	See test report: 3330a 8.12.2016

Marking of product

In accordance with IEC 60947-4-2 and IEC 60947-4-3

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