DNV·GL

Certificate No:
TAE0000064

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Motor Starter

with type designation(s)
3RW40

Issued to
Siemens AG GWA
Amberg, Germany

is found to comply with
Det Norske Veritas' Rules for Classification of Ships, High Speed & Light Craft and Det Norske Veritas' Offshore Standards

Application :

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

Rated Voltage (V)	**200 - 600**
Rated Current (A)	**134 - 432**
Frequency (Hz)	**50 - 60**

This Certificate is valid until **2018-12-31**.

Issued at **Høvik** on **2015-09-21**

for **DNV GL**

DNV GL local station: **Essen**

Approval Engineer: **Marta Alonso Pontes**

Marit Laumann
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

AC Semiconductor Motor Starter, type 3RW405 and 3RW407 including accessories 3RT19, 3RU19 & 3RW49 according to size and power as listed below. Max. Voltage = 600 V. Rated Insulation Voltage 600 V (IT-net).

3RW405
Ambient temperature 40 °C

SIRIUS 3RW405	Current	Ratings 3 phase, AC –53a, In-line circuit		
	Ie_{AC-53a}	230 V	400 V	500 V
3RW4055	134 A	37 kW	75 kW	90 kW
3RW4056	162 A	45 kW	90 kW	110 kW

Ambient temperature 50 °C

SIRIUS 3RW405	Current	Ratings 3 phase, AC –53a, In-line circuit		
	Ie_{AC-53a}	230 V	400 V	500 V
3RW4055	117 A	37 kW	55 kW	75 kW
3RW4056	145 A	45 kW	75 kW	90 kW

Ambient temperature 60 °C

SIRIUS 3RW405	Current	Ratings 3 phase, AC –53a, In-line circuit		
	Ie_{AC-53a}	230 V	400 V	500 V
3RW4055	100 A	30 kW	55 kW	55 kW
3RW4056	125 A	37 kW	55 kW	75 kW

3RW407
Ambient temperature 40 °C

SIRIUS 3RW407	Current	Ratings 3 phase, AC –53a, In-line circuit		
	Ie_{AC-53a}	230 V	400 V	500 V
3RW4073	230 A	75 kW	132 kW	160 kW
3RW4074	280 A	90 kW	160 kW	200 kW
3RW4075	356 A	110 kW	200 kW	250 kW
3RW4076	432 A	132 kW	250 kW	315 kW

Ambient temperature 50 °C

Solid-state Starter size S3	Current	Ratings 3 phase, AC –53a, In-line circuit		
	Ie_{AC-53a}	230 V	400 V	500 V
3RW4073	205 A	55 kW	110 kW	132 kW
3RW4074	248 A	75 kW	132 kW	160 kW
3RW4075	315 A	90 kW	160 kW	200 kW
3RW4076	385 A	110 kW	200 kW	250 kW

Ambient temperature 60 °C

Solid-state Starter size S3	Current	Ratings 3 phase, AC –53a, In-line circuit		
	Ie_{AC-53a}	230 V	400 V	500 V
3RW4073	180 A	55 kW	90 kW	110 kW
3RW4074	215 A	55 kW	110 kW	132 kW
3RW4075	280 A	90 kW	160 kW	200 kW
3RW4076	335 A	90 kW	160 kW	200 kW

Accessories includes fans (3RW49)

Application/Limitation

For installation inside switchboards/ enclosures onboard ships and offshore units. Selection to be in accordance with the DNV Rules wrt. ambient temperature.

With Uimp = 6 kV the max. rated voltage is 600 V when used in a IT (ship) net. Applicable for use in applications with directly earthed systems with rated voltage of 400/690 V.

Type Approval documentation

Tests carried out

Type tests in according to IEC / EN60947-4-2 & 60947-5-1, dry heat, damp heat, salt mist, vibration, high voltage, EMC, inclination, flame retardancy tests.

Marking of product

Siemens - type designation - current - power ratings - insulation voltage.

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 Routines (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.

END OF CERTIFICATE