DNV·GL

Certificate No:
TAE00003KZ

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Motor Starter

with type designation(s)
3RW52, 3RW55

Issued to
Siemens AG
Amberg, Bayern, 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.

Issued at **Hamburg** on **2019-12-19**
This Certificate is valid until **2024-12-18**.
DNV GL local station: **Augsburg**

Approval Engineer: **Thomas Hartmann**

for **DNV GL**

Arne Schaarmann
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 3RW52 and 3RW55 including accessories 3RW593 according to size and power as listed below.

3RW52- Standard plus
3RW55- High Feature

General performance data

Degree of protection IP	20	
Pollution degree	2	
Overvoltage Category	III	
Nominal Input frequency	50/60	Hz
Max. Prospective short-circuit current	65	kA
Upstream protection	Fuse or circuit-breaker	
3RW55- Motor protection classes	10A, 10E, 20E, 30E	
3RW52- Motor protection classes	10A, 10E, 20E	
Cooling method (power circuits)	Forced Air	

SIRIUS 3RW551, SIRIUS 3RW521 (Size 1)

SIRIUS	Current	Motor Ratings P_N [kW] [1], 3-phase, AC –53a,			
	Ie_{AC-53a}	230 V	400 V	500 V	690 V [2]
3RW5x13	13	3	5,5	7,5	-
3RW5x14	18	4	7,5	11	-
3RW5x15	25	5,5	11	15	-
3RW5x16	32	7,5	15	18,5	-
3RW5x17	38	11	18,5	22	-

SIRIUS 3RW552, SIRIUS 3RW522 (Size 2)

SIRIUS	Current	Motor Ratings P_N [kW] [1], 3-phase, AC –53a,			
	Ie_{AC-53a}	230 V	400 V	500 V	690 V [2]
3RW5x21	25	5,5	11	15	22
3RW5x24	47	11	22	30	45
3RW5x25	63	18,5	30	37	55
3RW5x26	77	22	37	45	75
3RW5x27	93	22	45	55	90

SIRIUS 3RW553, SIRIUS 3RW523 (Size 3)

SIRIUS	Current	Motor Ratings P_N [kW] [1], 3-phase, AC –53a,			
	Ie_{AC-53a}	230 V	400 V	500 V	690 V [2]
3RW5x34	113	30	55	75	110
3RW5x35	143	37	75	90	132
3RW5x36	171	45	90	110	160

SIRIUS 3RW554, SIRIUS 3RW524 (Size 4)

SIRIUS	Current	Motor Ratings P_N [kW] [1], 3-phase, AC –53a,

	Ie $_{AC-53a}$	230 V	400 V	500 V	690 V [2]
3RW5x43	210	55	110	132	200
3RW5x44	250	75	132	160	250
3RW5x45	315	90	160	200	215
3RW5x46	370	110	200	250	355
3RW5x47	470	132	250	315	400
3RW5x48	570	160	315	355	560

[1] Nominal values at ambient temperature 40 °C, for higher ambient temperatures derating of the manufacturer to be observed
[2] 3RW52 maximum nominal voltage for IT-grid configuration is 600 V.
[3] Motor power ratings are applicable for the standard circuit configuration. Higher motor ratings may be achieved by in-line-circuit ($\sqrt{3}-$ Circuit). See manufacturer datasheets for details and restriction.

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

Location classes according to CG-0339:	
Temperature class	B
Vibration class	A
Humidity class	A [4]
EMC class	A [5]

[4] Installation at locations where special precautions to avoid condensation are taken or anti-condensation measures are required.

[5] Converters with conducted and radiated emission above the DNV GL required limits can be installed in "special power distribution zone" and "general power distribution zone", in accordance with IEC 60533 provided measures are taken to attenuate these effects on the distribution system, so the safe operation is assured. Planned EMC measures shall be submitted for approval prior to installation onboard.

Type Approval documentation

Tests carried out
Type tests in according to IEC 60947-1, IEC 60947-4-2, IEC 60947-5-1, IEC 60947-8, DNV GL CG-0339[2016], Environmental- and EMC-tests

Marking of product
Manufacturers label containing data and manufacturer's type number.

Place of production
Siemens s.r.o.
Odštěpný závod Nízkonapěťová spínací technika
Volanovská 516
541 01 Trutnov
Czech Republic

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