DNV·GL

Certificate No:
TAE00002HY

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Motor Starter

with type designation(s)
3RA6

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)	**up to 690**
Rated current (A)	**0.1 - 32**
Frequency (Hz)	**50 / 60**

Issued at **Hamburg** on **2018-01-26**
This Certificate is valid until **2023-01-25**.
DNV GL local station: **Augsburg**

Approval Engineer: **Harald Amberger**

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

3RA61… Load feeders, direct-on-line-starters **3RA62… Load feeders, reversing starters** **3RA64… Load feeders, direct-on-line-starters for IO-Link** **3RA65… Load feeders, reversing starters for IO-Link** **Ratings**				
Type	3RA61…	3RA62…	3RA64…	3RA65…
Size	S0			
Number of poles	3			
Max. operational voltage U_e	690V			
Insulation voltage U_i	690V			
Impulse withstands voltage U_{imp}	6kV			
Service short-circuit capacity I_{CS}	53kA at 50/60Hz, 400V AC			
Frequency (Hz)	50/60Hz			
Trip class (CLASS)	10/20			
Control supply voltage	24V AC/DC, 110…240V AC/DC		24V DC	

Setting range	Current $I_{e\ AC-43}$	Power Ratings 230V AC	400V AC	500V AC	690V AC
0,1 - 0,4 A	0,4 A	0,06 kW	0,09 kW	0,12 kW	0,18 kW
0,32 - 1,25	1,25 A	0,18 kW	0,37 kW	0,55 kW	0,75 kW
1 - 4 A	4 A	0,75 kW	1,5 kW	2,2 kW	3 kW
3 - 12 A	12 A	3 kW	5,5 kW	5,5 kW	7,5 kW
8 - 32 A	32 A	7,5 kW	15 kW	18,5 kW	30 kW

Further ratings according manufacturer documentation

Accessories; Basic types	
3RA6812-…	Three-phase infeed and expansion modules 25/35mm²
3RA6813-…	Three-phase infeed and expansion modules 50/75mm²
3RA6830-5AC	Spring-loaded infeed 25/35 mm2 left or right
3RA6822-…	Two-socket expansion modules
3RA6823-…	Three-socket expansion modules
3RA691.-…	Auxiliary switch blocks for compact starters
3RA6920-…	Main circuits- and control circuits terminals
3RV1915-1…	Three-phase busbars for infeed with 3RA&
3RV1915-6AB	Covers for connection tags of the three-phase busbars
3RV.9.5-5…	Three-phase infeed terminals for three-phase busbars
8US1211-1NS10	Busbar adapters for 60 mm systems
8US1250-1AA10	Device holders for lateral mounting along side the busbar adapter for 60 mm systems
3RV2926-0…	Door-coupling rotary operating mechanisms for operating the compact starter with closed control cabinet doors

Ratings and mounting locations according manufacturer documentation.

Application/Limitation

Location Classes:
Temperature: C, Humidity: B, Vibration: A, Enclosure: IP20, EMC: A

For installation inside switchboards/ enclosures onboard ships and offshore units.
With Uimp=6kV; Overvoltage category II applies for applications in IT systems > 600 V.

Max. operation voltage 400V AC at 3RA6250-.E… and 3RA6500-.E… reversing starter 32A design.

Type Approval documentation

Tests carried out

IEC/EN60947-6-2 and IEC/EN 60947-5-1, cold, dry heat, damp heat, vibration, flame retardancy, inclination, EMC.

Marking of product

Manucfacturers label containing data and manufacturers type number.

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