

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Contactor

with type designation(s)
3RT2, 3RA23, 3RA24 & 3RH2

Issued to

Siemens AG GWA
Amberg, Germany

is found to comply with
DNV GL rules for classification – Ships and offshore units

Application :

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

Rated Voltage (V) 690
Rated Current (A) 7 - 80 (AC3/400V)
Frequency (Hz) 50/60

This Certificate is valid until **2021-07-18**.

Issued at **Hamburg** on **2016-07-19**

DNV GL local station: **Augsburg**

Approval Engineer: **Harald Amberger**

for **DNV GL**

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.

Product description

Contactor 3RT2... Ratings				
Operational voltage U _e		690V		
Insulation voltage U _i		690V		
Impulse withstands voltage U _{imp}		6kV		
Frequency (Hz)		50/60Hz /dc		
		Rated operational current I _e (40°)		
Motor contactor 3 NO main contacts		400V AC-3 (A)	500V AC-3 (A)	690V AC-3 (A)
Size 00	3RT2015-..	7	6	4,9
	3RT2016-..	9	7,7	6,7
	3RT2017-..	12	9,2	6,7
	3RT2018-..	16	12,4	8,9
Size 0	3RT2023-..	9	9	9
	3RT2024-..	12	12	9
	3RT2025-..	17	17	13
	3RT2026-..	25	18	13
	3RT2027-..	32	32	21
	3RT2028-..	38	32	21
	3RT2029-..	45	36	24
Size 2	3RT2035-..	40	40	24
	3RT2036-..	51	51	24
	3RT2037-..	65	65	47
	3RT2038-..	80	80	58
4-pole contactor 4 NO main contacts		400V AC-1 (A)	500V AC-1 (A)	690V AC-1 (A)
Size 00	3RT2316-..	18	18	18
	3RT2317-..	22	22	22
Size 0	3RT2324-..	30	30	30
	3RT2325-..	35	35	35
	3RT2326-..	40	40	40
	3RT2327-..	50	50	50
Size 2	3RT2336-..	60	60	60
	3RT2337-..	110	110	110
4-pole contactor 2 NO + 2 NC main contacts		400V AC-3 (A)	500V AC-3 (A)	690V AC-3 (A)
Size 00	3RT2516-..	9* / 9**	--	--
	3RT2517-..	9* / 12**	--	--
	3RT2518-..	9* / 16**	--	--
Size 0	3RT2526-.AP00	25* / 25**	--	--
	3RT2526-.BB40	20* / 25**	--	--
Size 2	3RT2535-..	35	--	--
	3RT2536-..	41	--	--
*rating for NC contact, **rating for NO contact Further ratings according manufacturer documentation				

3RA23... Reversing contactor assemblies				
Ratings				
Complete units, each consist of two contactors with the same power of 3RT20...-				
Operational voltage U _e		690V		
Insulation voltage U _i		690V		
Impulse withstands voltage U _{imp}		6kV		
Frequency (Hz)		50/60Hz		
		Ratings of three-phase motors kW (40°)		
AC operation, 50Hz		230V	400V	690V
Size 00	3RA2315-..	2,2	3	4
	3RA2316-..	3	4	5,5
	3RA2317-..	3	5,5	5,5
Size 0	3RA2318-..	4	7,5	7,5
	3RA2324-..	3	5,5	7,5
	3RA2325-..	4	7,5	11
	3RA2326-..	5,5	11	11
	3RA2327-..	7,5	15	18,5
	3RA2328-..	11	18,5	18,5
Size 2	3RA2335-..	11	18,5	22
	3RA2336-..	15	22	22
	3RA2337-..	18,5	30	45
	3RA2338-..	22	37	55
Further ratings according manufacturer documentation				

3RA24...Contactor assemblies for wye-delta starting				
Ratings				
Complete units, each consist of line/delta contactor and star contactor of 3RT20...-				
Operational voltage U _e		690V		
Insulation voltage U _i		690V		
Impulse withstands voltage U _{imp}		6kV		
Frequency (Hz)		50/60Hz		
		Ratings of three-phase motors kW (40°)		
AC operation, 50Hz		230V	400V	690V
Size 00	3RA2415-..	3,3	5,5	4
	3RA2416-..	4,7	7,5	5,5
	3RA2417-..	5,5	11	5,5
Size 0	3RA2423-..	7,1	11	19
	3RA2425-..	11,4	15/18,5	19
	3RA2326-..	--	22	19
Further ratings according manufacturer documentation				

Contactor 3RT26...for AC capacity loads				
Ratings				
Operational voltage U _e		690V		
Insulation voltage U _i		690V		
Impulse withstands voltage U _{imp}		6kV		
Frequency (Hz)		50/60Hz		
		Rated operational reactive power kvar (40°)		
Contactor, 3 NO main contacts		400V	500V	690V
Size 00	3RT2617-..	12,5	15	21
Size 0	3RT2625-..	16,7	21	29
	3RT2626-..	20	25	34
	3RT2627-..	25	31	43
	3RT2628-..	33	41	57
Size 2	3RT2636-..	50	63	86
	3RT2637-..	75	94	129
Further ratings according manufacturer documentation				

Contactor relay 3RH2...-... Ratings				
Operational voltage U _e		690V		
Insulation voltage U _i		690V		
Impulse withstands voltage U _{imp}		6kV		
Frequency (Hz)		50/60Hz /dc		
		Rated operational current I _e (40°)		
	AC-12	230V / 10A	DC13	24V / 6A
	AC-15	230V / 6A		60V / 6A
		400V / 6A		125V / 0,9A
		500V / 2A		250V / 0,3A
		690V / 1A		600V / 0,1A
		Rated control supply voltage and auxiliary contactor arrangement acc. manufacturer documentation.		

Accessories; Basic types	
3RH29..	Auxiliary switches; ratings acc. Contactor relay 3RH2...-
3RA271.-	Function modules for IO-Link or AS-Interface
3RA28..	Logic Modules
3RT2926-2P-	Pneumatic time-delay aux. switch blocks
3RT29.6-1-	Surge suppressors without/with LED
3RT2916-1P-	EMC suppression modules
3RT2916-1GA00	Additional load modules
3RT2926-4R.1-	Coil connection modules for connections from top or below
3RH29.4-.GP11	Coupling links for control by PLC
3RT2926-1QT00	LED modules for displaying contactor operation.
	Terminal modules/adapters, covers.

Ratings and mounting locations according manufacturer documentation.

Job Id: **262.1-020879-1**
Certificate No: **TAE000016X**

Application/Limitation

Location Classes:

Temperature: D, 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.

Type Approval documentation

Tests carried out

IEC 60947-4-1, IEC 60947-5-1, IEC 61812-1, cold, dry heat, damp heat, vibration, flame retardancy, EMC

Marking of product

Manufacturers label containing data and manufacturers type number.

Name and place of manufacturer

Siemens AG, GWA
Werner-von-Siemens-Str. 48
92220 Amberg
Germany

Siemens AG, GWA
Werner-von-Siemens-Str. 29
93413 Cham
Germany

Siemens s.r.o
Volanovská 516
541 01 Trutnov
Česká republika

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 Production Sample Tests (PST) and Routines (RT) checked (if not available tests according to PST and 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 2 year.

END OF CERTIFICATE