

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Contactor**with type designation(s)
3RT2, 3RA23, 3RA24 & 3RH2

Issued to

Siemens AG
Amberg, Bayern, Germanyis 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) 690/1000**
Rated current (A) 7 - 110 (AC3/400V)
Frequency (Hz) 50/60Issued at **Hamburg** on **2019-04-18**for **DNV GL**This Certificate is valid until **2024-04-17**.DNV GL local station: **Augsburg**Approval Engineer: **Harald Amberger**.....
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.



Job Id: 262.1-020879-2
 Certificate No: TAE000016X
 Revision No: 1

Product description

Contactors 3RT2... Ratings				
Operational voltage U_e		690V / 1000V*		
Insulation voltage U_i		690V / 1000V*		
Impulse withstands voltage U_{imp}		6kV / 8kV*		
Frequency (Hz)		50/60Hz		
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
Size 2	3RT2035-..	40	40	24
	3RT2036-..	51	51	24
	3RT2037-..	65	65	47
	3RT2038-..	80	80	58
Size 3	3RT2045-..	80	80	58
	3RT2046-..	95	95	78
	3RT2047-..	110	110	98
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	3RT2325-..	35	35	35
	3RT2326-..	40	40	40
	3RT2327-..	50	50	50
Size 2	3RT2336-..	60	60	60
	3RT2337-..	110	110	110
Size 3	3RT2344-..	110	110	110
	3RT2346-..	140	140	140
	3RT2348-..	160	160	160
4-pole contactor 2 NO + 2 NC main contacts		400V NO AC-3 (A)	400V NC AC-3 (A)	690V AC-1 (A)
Size 00	3RT2516-..	9	9	18
	3RT2517-..	12	9	22
	3RT2518-..	16	9	22
Size 0	3RT2526-..	25	25	40
Size 2	3RT2535-..	35	35	60
	3RT2536-..	41	41	70
Size 3	3RT2544-..	65	65	100
	3RT2545-..	80	80	125
*Size 3 Further ratings according manufacturer documentation				

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3RA23... Reversing contactor assemblies				
Ratings				
Complete units, each consist of two contactors with the same power of 3RT20...-				
Operational voltage U _e		690V / 1000V*		
Insulation voltage U _i		690V / 1000V*		
Impulse withstands voltage U _{imp}		6kV / 8kV*		
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
	3RA2318-..	4	7,5	7,5
Size 0	3RA2324-..	3	5,5	7,5
	3RA2325-..	4	7,5	11
	3RA2326-..	5,5	11	11
	3RA2327-..	7,5	15	18,5
	3RA2328-..	7,5	18,5	18,5
Size 2	3RA2335-..	11	18,5	22
	3RA2336-..	15	22	22
	3RA2337-..	18,5	30	37
	3RA2338-..	22	37	45
Size 3	3RA2345-..	22	37	55
	3RA2346-..	22	45	75
	3RA2347-..	30	55	90
*Size 3 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 / 1000V*		
Insulation voltage U _i		690V / 1000V*		
Impulse withstands voltage U _{imp}		6kV / 8kV*		
Frequency (Hz)		50/60Hz		
Ratings of three-phase motors kW (40°)				
AC operation, 50Hz		230V	400V	690V
Size S00-S00-S00	3RA2415-..	3,3	5,5	9,2
	3RA2416-..	4,7	7,5	9,2
	3RA2417-..	5,5	11	11
Size S0-S0-S0	3RA2423-..	7,1	11	19
	3RA2425-..	11,4	15/18,5	19
	3RA2426-..	--	22	19
Size S2-S2-S0	3RA2434-..	19,6	22/30	34
	3RA2435-..	25	37	63
	3RA2436-..	27	45	63
Size S2-S2-S2	3RA2437-..	37	55	93
Size S3-S3-S2	3RA2444-..	30	55	90
	3RA2445-..	37	75	110
	3RA2446-..	45	90	132
*Size 3 Further ratings according manufacturer documentation				

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Contactors 3RT26...for AC capacity loads				
Ratings				
Operational voltage U_e		690V / 1000V*		
Insulation voltage U_i		690V / 1000V*		
Impulse withstands voltage U_{imp}		6kV / 8kV*		
Frequency (Hz)		50/60Hz		
Rated operational reactive power kvar (40°)				
Contactors, 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
Size 3	3RT2645-..	75	94	129
	3RT2646-..	100	125	172
*Size 3 Further ratings according manufacturer documentation				

Contactors 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 / 10A		60V / 2A
		400V / 3A		125V / 0,9A
		500V / 2A		250V / 0,3A
		690V / 1A		600V / 0,1A
Rated control supply voltage and auxiliary contact arrangements acc. manufacturer documentation.				

Accessories; Basic types	
3RH29..	Auxiliary switches; ratings acc. Contactors 3RH2...-
3RA271.-	Function modules for IO-Link or AS-Interface
3RA28..	Logic Modules
3RA29...	Wiring 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 contactors operation.
	Terminal modules/adapters, covers.

Ratings and mounting locations according manufacturer documentation.

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Application/Limitation

Location Classes:

Temperature: D, Humidity: B, Vibration: A, Enclosure: IP20, EMC: A

3RA24...Contactor assemblies for wye-delta starting: Size 2 + 3 only applicable together with wiring modules 3RA29 and timing relay with star-delta (wye-delta) function type 3RP...

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

As per tech.-docs in NPS Id: 262.1-020879-1/2

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

Siemens Ltd., Kalwa
Thane Belapur Road
Thane 400 601
India

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