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Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

Manufacturer	Siemens AG
Address	Werner-von-Siemens-Strasse 48, Amberg, 92220
Туре	Circuit Breakers (Env Tested)
Description	SIRIUS Innovation - Circuit Breaker and accessories
	Refer to the Appendix for further details.
Trade Name	3RV2
Application	Marine, offshore and industrial applications for use in environmental categories ENV1, ENV2 and ENV3 as defined in Lloyd's Register's Type Approval System, Test Specification Number 1 – 2013.
Specified Standard	IEC 60947-2:2016-06+A1:2019-07 IEC 60947-4-1:2009-09 + A1:2012-07 IEC 60947-5-1:2016-05
Ratings	Refer to the Appendix for further details.
Other Conditions	Correction factor for ambient air temperature above 60° C (above 40°C for 36/40 A version, size S0) is to be obtained from manufacturer.

Thorsten Wolff

Senior Specialist to Lloyd's Register EMEA A member of the Lloyd's Register group

71 Fenchurch Street, London, EC3M 4BS, United Kingdom



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Type Approval Certificate

This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

Previous Version: 11/20009 (E3)

The Design Appraisal Document HTS/ETS 41366-21/TW and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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Appendix

ТҮРЕ	Circuit break	er					
	3RV20	21	-4A	А	1	8	
			III	IV	V	VI	 VII
	I. Basic Type						
	3RV20 – Circu						
					vith overload	function	
	3RV23 - Circu						
	3RV24 - Circu	lit Breaker fo	or transfoi	rmer proteo	ction		
	II. Size of teri	minal for ma	ain circuit				
	11 – Up to 16						
	21 – up to 40						
	23 - only for s						
					-		/ 400V, Size S2
			-		breaking capa	-	
		•			-		A / 400V, Size S3
	42 – from 40	A up to 100	A, nigner s	snort circuit	t breaking cap	acity, 100kA	/ 400V, Size S3
	III. Setting	Ranges Suff	ix	From	to (A)	Size	
	-0A			0.11	0.16	S00, S0	
	-0B			0.14	0.2	S00, S0	
	-0C			0.18	0.25	S00, S0	
	-0D			0.22	0.32	S00, S0	
	-0E			0.28	0.4	S00, S0	
	-0F			0.35	0.5	S00, S0	
	-0G			0.45	0.63	S00, S0	
	-0H			0.55	0.8	S00, S0	
	-0J			0.7	1	S00, S0	
	-0K			0.9	1.25	S00, S0	
	-1A			1.1	1.6	S00, S0	
	-1B			1.4	2	S00, S0	
	-1C			1.8	2.5	S00, S0	
	-1D			2.2	3.2	S00, S0	
	-1E			2.8	4	S00, S0	
	-1F			3.5	5	S00, S0	
	-1G			4.5	6.3	S00, S0	
	-1H			5.5	8	S00, S0	
	-1J			7	10	S00, S0	



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-1K	9	12.5	S00, S0
-4S	9.5	14	S2
-4A	10	16	S00, S0, S2
-4T	12	17	S2
-4B	13	20	S0, S2
-4C	16	22	S0
-4D	18	25	S0, S2
-4N	23	28	S0
-4E	27	32	S0
-4E	22	32	S2
-4P	30	36	S0
-4P	28	36	S2
-4U	32	40	S2
-4F	34	40	S0
-4F	28	40	S2, S3
-4V	35	45	S2
-4G	36	45	S2
-4H	40	50	S2
-4H	36	50	S 3
-4W	42	52	S2
-4Q	47	57	S2
-4X	49	59	S2
-4J	54	65	S2
-4J	45	63	S 3
-4K	62	73	S2
-4K	57	75	S 3
-4R	70	80	S2
-4R	65	84	S 3
-4Y	75	93	S3
-4M	80	100	S3

IV. Tripping Class

- A setting ranges with instantaneous tripping and overload tripping Class 10
- B setting ranges with instantaneous tripping and overload tripping Class 20(only up to 65A)
- C with instantaneous tripping and without overload tripping

V. Type of Terminals

1 - Screw Terminal

2 - spring terminals (only up to 32A)

4 - Ring lug terminals (only up to 32A)



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VI. Auxiliary Switches
(Combinations with cortified accessories Type 20

- (Combinations with certified accessories Type 3RV29...)
- 0 without
- 1 1NO + 1NC, side mounted
- 2 2NO, side mounted
- 3 2NC, side mounted
- 4 1NO/NC Changeover, top mounted
- 5 1NO + 1NC, top mounted
- 6 2NO, top mounted
- VII. Others
- .. Manufacturer's identification

Circuit Breaker according UL489

3RV2721	-0A	D	1	0
I	П	III	IV	V

I. Basic type

- 3RV2711 circuit Breaker acc. UL489, adjusted to 13 times rated current up to 15 A
- 3RV2811 circuit Breaker acc. UL489, adjusted to 20 times rated current up to 15 A
- 3RV2721 circuit Breaker acc. UL489, adjusted to 13 times rated current from 20 A up to 22 A
- 3RV2821 circuit Breaker acc. UL489, adjusted to 20 times rated current from 20 A up to 22 A
- 3RV2742 circuit Breaker acc. UL489, adjusted to 13 times rated current from 10 A up to 70 A

II. Rated Current
-0A - 0.16 A
-0B - 0.2 A
-0C - 0.25 A
-0D - 0.32 A
-0E - 0.4 A
-0F - 0.5 A
-0G - 0.63 A
-0H - 0.8 A
-0J - 1.0 A
-0K - 1.25 A
-1A - 1.6 A
-1B - 2.0 A
-1C - 2.5 A



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-1D - 3.2 A
-1E - 4.0 A
-1F - 5.0 A
-1G - 6.3 A
-1H - 8.0 A
-1J - 10 A
-5A - 10 A
-5R - 10 A
-1K - 12.5 A
-4A - 15 A
-5B - 15 A
-5S - 15 A
-4B - 20 A
-5C - 20 A
-4C - 22 A
-5D - 25 A
-5E - 30 A
-5F - 35 A
-5G - 40 A
-5H - 45 A
-5J - 50 A
-5L - 60 A
-5Q - 70 A
III. Tripping Class
D - with instantaneous tripping and fixed current overload tripping
IV. Type of Terminal
1 - Screw Terminals
V. Auxiliary Switches
0 - without
Infeed system:
3RV2917-1A Infeed, left side with 2 sockets
3RV2917-1E Infeed, right side with 2 sockets
3RV2917-4A Expansion module with 2 sockets

3RV2917-1A Infeed, left side with 2 sockets 3RV2917-1E Infeed, right side with 2 sockets 3RV2917-4A Expansion module with 2 sockets 3RV2917-4B Expansion module with 3 sockets 3RV2917-5CA00 Plug for 3RV2, Screw terminal Size S00 3RV2917-5AA00 Plug for 3RV2, Spring terminal Size S00 3RV1927-5AA00 Plug for 3RV2, Screw terminal Size S0 3RV2927-5AA00 Plug for 3RV2, Spring terminal Size S0 3RV2927-5AA00 Plug for 3RV2, Spring terminal Size S0 3RV2927-7AA00 Contactor Base for contactor 3RT2.1 3RV2927-7AA00 Contactor Base for contactor 3RT2.1 and 3RT2.2



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3RV2917-5BA00 Extension plug 3RV2917-5E Broadened Extension plug 3RV2917-5D Terminal Block for integration of external components 3RV2917-6A End Cover						
Accessories Auxiliary co	•					
3RV2901	-1	А				
I	Ш	Ш				
I - Basic type						

3RV2901 - Auxiliary contact blocks for 3RV2 3RV2921 - Alarm switch for 3RV2

- II Type of terminals
- -1 Screw Terminal
- -2 Spring terminals
- -4 Ring lug terminals
- **III Contact arrangements**
- A 1NO + 1NC, side-mounting
- B 2NO, side-mounting
- C 2NC, side-mounting
- D 1NO + 1NC changeover, top-mounting
- E 1NO + 1NC, top-mounting
- F 2NO, top-mounting
- G 1NO + 1NC changeover, top-mounting, micro switch
- J 2NO + 2NC, side-mounting
- M 2NO + 2NC, side-mounting, alarm switch

Undervoltage trip units, Shunt releases:

3RV2902	-1	А	B4
I	П	III	IV

I - Basic type 3RV2902 - Undervoltage trip units, Shunt releases for 3RV2 3RV2922 - Undervoltage trip unit with leading auxiliary contacts for 3RV2

II - Type of terminals

-1 - Screw Terminal



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- -2 Spring terminals
- -4 Ring lug terminals
- III Type of Accessory
- A Undervoltage trip unit
- C Undervoltage trip unit with leading auxiliary contacts
- D Shunt trip unit
- IV Rated voltage for Undervoltage trip unit
- B4 24V, dc
- B0 24V, 50Hz
- F0 110V, 50Hz; 120V, 60Hz
- M1 208V, 60Hz
- P0 230V, 50Hz; 240V, 60Hz
- V0 400V, 50Hz; 440V, 60Hz
- V1 415V, 50Hz; 480V, 60Hz
- S0 500V, 50Hz; 600V, 60Hz
- G6 100V, 50 Hz; 110V, 60Hz
- N0 220V, 50Hz
- N6 200V, 50Hz; 220V, 60Hz
- Q0 380V, 50Hz
- U0 240V, 50Hz

IV – Rated voltage for Shunt trip unit B0 - 20-24V, 50/60Hz

- F0-90-110V, 50/60Hz
- P0 210-240V, 50/60Hz
- V0-350-415V, 50/60Hz
- S0 500V, 50/60Hz

3RV2928-1A Isolator Module, Size S00, S0 3RV2938-1A Isolator Module, Size S2 3RV2928-1K Type E Adapter for screw terminal, Size S00, S0 3RV2938-1K Type E Adapter for screw terminal, Size S2 3RV2948-1K Terminal block with phase barriers, Size S3 3RV2908-0P Sealing Cap 3RV2901-0H Cover 3RV2928-4AA00 Cover for ring-lug-terminals (main terminals) 3RV2908-4AA10 Cover for ring-lug-terminals (auxiliary switch, top mounting) 3RV2928-0B Plug-in lugs for screw mounting 8US1251-5DS10 Adapter for SIRIUS Circuit breaker, Size S00, screw terminals, 200mm 8US1251-5DT10 Adapter for SIRIUS Circuit breaker, Size S00, screw terminals, 260mm 8US1251-5DT11 Adapter for SIRIUS Circuit breaker, Size S00, spring terminals, 260mm



8US1251-5NT11 Adapter for SIRIUS Circuit breaker Size S0, spring terminals, 260mm 8US1251-5DS11 Adapter for SIRIUS Circuit breaker Size S00, spring terminals, 200mm 8US1261-5MS13 Adapter for SIRIUS Circuit breaker, Size S2, screw terminals, 200mm 8US1211-4TR00 Adapter for SIRIUS Circuit breaker, Size S3, screw terminals, 215mm 8US1998-1DA10 Vibration & Shock Kit, Size S2 3RV2928-1H Terminal Block, Size S00, S0 3RV2925-5AB 3-phase Line-Side Terminal, Size S00, S0 3RV2925-5EB 3-phase Line-Side Terminal for Self-protected Motor Starter, Size S00, S0 3RV1915-1AB 3-phase busbar for 2 devices 45mm distance, Size S00, S0 3RV1915-1BB 3-phase busbar for 3 devices 45mm distance, Size S00, S0 3RV1915-1CB 3-phase busbar for 4 devices 45mm distance, Size S00, S0 3RV1915-1DB 3-phase busbar for 5 devices 45mm distance, Size S00, S0 3RV1915-2AB 3-phase busbar for 2 devices 55 mm distance, Size S00, S0 3RV1915 2BB 3-phase busbar for 3 devices 55 mm distance, Size S00, S0 3RV1915-2CB 3-phase busbar for 4 devices 55 mm distance, Size S00, S0 3RV1915-2DB 3-phase busbar for 5 devices 55 mm distance, Size S00, S0 3RV1915-3AB 3-phase busbar for 2 devices 63 mm distance, Size S00, S0 3RV1915-3CB 3-phase busbar for 4 devices 63 mm distance, Size S00, S0 3RV2915-5B 3-phase Line-Side Terminal, connection from below, Size S00, S0 3RV1915-6AB Cover for tags, Size S00, S0 3RV2935-5A 3-phase Line-Side Terminal, Size S2 3RV2935-5E 3-phase Line-Side Terminal for Self-protected Motor Starter, Size S2 3RV1935-1A 3-phase busbar for 2 devices 55mm distance, Size S2 3RV1935-1B 3-phase busbar for 3 devices 55mm distance, Size S2 3RV1935-1C 3-phase busbar for 4 devices 55mm distance, Size S2 3RV1935-3A 3-phase busbar for 2 devices 75 mm distance, Size S2 3RV1935-3B 3-phase busbar for 3 devices 75 mm distance, Size S2 3RV1935-3C 3-phase busbar for 4 devices 75 mm distance, Size S2 3RV1935-6A Cover for tags, Size S2 3RT2946-4GA07 Type E Terminal for screw terminal, Size S3 3RV2948-1LA00 Terminal cover for Size S3 3RA2943-3L 1-phase Terminal for 3RV2.4 and 3RT2.4, Size S3 3RT2946-4EA2 Terminal Cover, Size S3 3RT1946-4EA1 Terminal Cover for cable lug and bar connection, Size S3 3RT2946-4F Auxiliary conductor terminal, Size S3

PLACES OF PRODUCTION

Siemens AG, GWA Werner-von-Siemens-Straße 29 93413 Cham Germany



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