

CERTIFICATE OF COMPLIANCE

Certificate Number 20170123- E31519
Report Reference E31519 - 20110112
Issue Date 2017-JANUARY-23

Issued to: SIEMENS AG
I IA CE CP R&D-VI 4
WERNER-VON-SIEMENS-STRASSE 48
92220 AMBERG GERMANY

This is to certify that representative samples of Motor Controllers, Magnetic
(See following pages for additional information.)

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: ANSI/UL 60947-1, "Low-Voltage Switchgear and Controlgear - Part 1: General Rules."
ANSI/UL 60947-4-1, "Low-Voltage Switchgear and Controlgear - Part 4-1: Contactors and Motor-Starters - Electromechanical Contactors and Motor-Starters."
CSA C22.2 No. 60947-1-13 "Low-Voltage Switchgear and Controlgear - Part 1: General Rules."
CSA C22.2 No. 60947-4-1-14 "Low-Voltage Switchgear and Controlgear - Part 4-1: Contactors and Motor-Starters - Electromechanical Contactors and Motor-Starters."

Additional Information: See the UL Online Certifications Directory at www.ul.com/database for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.

Look for the UL Certification Mark on the product.



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This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Product Covered:

USL, CNL - Magnetic Motor controllers, Type No. 3RA2 followed by 1 or 2, followed by 1, 2, 3 or 5, followed by 0, 1, 2, 3, 4, 5 or 6, followed by a number and a letter, followed by A, B, D, E, F, H or S, followed by 15, 16, 17, 18, 24, 25, 26, 27, 34, 35, 36, 37 or 38, followed by 0, 1 or 2, may be followed by additional numbers and/or letters.

USL, CNL - Link modules, Type Nos. 3RA1921-1D, 3RA2921-1A, 3RA2921-1B, 3RA2911-2A, 3RA2921-2A, 3RA2911-2F, 3RA2921-2F, 3RA2931-1A may be followed by additional numbers and/or letters.

USL, CNL - Mounting Adapter for standard din rail, Type Nos. 3RA2922-1A, 3RA2932-1A, 3RA2942-1A, 3RA2902-1B, may be followed by additional numbers and/or letters.

USL, CNL - Spacer module for AC-contactors with spring terminals, Type Nos. 3RA2911-1C, may be followed by additional numbers and/or letters.


USL, CNL - Connecting cotter, Type Nos. 8US1998-1AA00

USL, CNL - Assembly Sets, Type Nos. 3RA2913, 3RA2923, 3RA2933, 3RA2943, followed by 1B, 1D or 1E, followed by B1 or B2, may be followed by additional numbers and/or letters.

General:

These devices are magnetic motor controllers, reversing and non-reversing, for use in industrial applications. They consist of Listed manual motor Controllers Type 3RV2 connected to Listed magnetic motor controllers Type 3RT2.

These devices may be provided with Listed Accessories of Type 8US1 busbar system.



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Ratings:

Temperature Rating:

Ambient temperature (All combinations except 32A-Version): 40°C:
 3RA211, 3RA221, Size S00
 3RA212, 3RA222, Size S0 except version with 32A-Comb.Mot.Ctrl

Surrounding Air Temperature: 40°C
 3RA212, 3RA222, Size S0 version with 32A-Comb.Mot.Ctrl only
 3RA213, 3RA215

Main Contacts (According to the contactor used, see Nomenclature Breakdown):
 3RA213.-4K.. and 3RA215.-4K are rated max. 65A.

Horsepower for Types 3RT2015, 3RA2315

Voltage	1-ph	3-ph	FLA/LRA
110-120 V	1/4	--	5.8/ 34.8
200 V	1/2	--	5.6/ 33.6
208 V	1/2	--	5.4/ 32.4
220/240 V	3/4	--	6.9/ 41.4
208 V	--	1 1/2	6.6 / 44
220/240 V	--	2	6.8 / 50
380-415 V	--	3	6.1 / 43
440/480 V	--	3	4.8 / 32
550/600 V	--	5	6.1 / 36.8

Horsepower for Types 3RT2016, 3RA2316

Voltage	1-ph	3-ph	FLA/LRA
110-120 V	1/3	--	7.2/ 43.2
200 V	1	--	9.2/ 55.2
208 V	1	--	8.8/ 52.8
220/240 V	1	--	8.0/ 48
208 V	--	2	7.5 / 55
220/240 V	--	3	9.6 / 64
380-415 V	--	3	6.1 / 43
440/480 V	--	5	7.6 / 46
550/600 V	--	7 1/2	9.0 / 50.8



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Horsepower for Types 3RT2017, 3RA2317

Voltage	1-ph	3-ph	FLA/LRA
110-120 V	1/2	--	9.8/ 58.8
200 V	1 1/2	--	11.5/ 69
208 V	1 1/2	--	11/ 66
220/240 V	2	--	12/ 72
208 V	--	3	10.6 / 71
220/240 V	--	3	9.6 / 64
380-415 V	--	5	9.7 / 61
440/480 V	--	7 1/2	11 / 63.5
550/600 V	--	10	11 / 64.8

Horsepower for Types 3RT2018, 3RA2318

Voltage	1-ph	3-ph	FLA/LRA
110-120 V	1	--	16/ 96
200 V	2	--	13.8/ 82.8
208 V	2	--	13.2/ 79.2
220/240 V	2	--	12/ 72
208 V	--	3	10.6 / 71
220/240 V	--	5	15.2 / 92
380-415 V	--	7 1/2	14.0 / 84
440/480 V	--	10	14.0 / 81
550/600 V	--	10	11 / 64.8

Horsepower for Types 3RT2024, 3RA2324

Voltage	1-ph	3-ph	FLA/LRA
110-120 V	1	-	16 / 96
200 V	1 1/2	-	11.5 / 69
208 V	2	-	13.2 / 79.2
220/240 V	2	-	12 / 72
200 V	-	3	11.0 / 73.6
208 V	-	3	10.6 / 71
220/240 V	-	3	9.6 / 64
380-415 V	-	5	9.7 / 61
440/480 V	-	7 1/2	11 / 63.5
550/600 V	-	10	11 / 64.8

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Horsepower for Types 3RT2025, 3RA2325

Voltage	1-ph	3-ph	FLA/LRA
110-120 V	1	-	16 / 96
*200 V	2	-	13.8 / 82.8
*208 V	2	-	13.3 / 79.8
220/240 V	3	-	17 / 102
*200 V	-	3	11 / 73.6
*208 V	-	5	16.7 / 102
220/240 V	-	5	15.2 / 92
*380-415 V	-	7 1/2	14 / 84
440/480 V	-	10	14 / 81
550/600 V	-	15	17 / 93

Horsepower for Types 3RT2026, 3RA2326

Voltage	1-ph	3-ph	FLA/LRA
110-120 V	2	-	24 / 144
200 V	3	-	19.6 / 117.6
208 V	3	-	18.7 / 112.2
220/240 V	3	-	17 / 102
200 V	-	5	17.5 / 105.8
208 V	-	5	16.7 / 102
220/240 V	-	7 1/2	22 / 127
380-415 V	-	10	18 / 107
440/480 V	-	15	21 / 116
550/600 V	-	20	22 / 116

Horsepower for Types 3RT2027, 3RA2327

Voltage	1-ph	3-ph	FLA/LRA
110-120 V	2	-	24 / 144
200 V	5	-	30.4 / 182.4
208 V	5	-	30.8 / 184.8
220/240 V	5	-	28 / 168
200 V	-	10	32.2 / 186.3
208 V	-	10	30.8 / 179
220/240 V	-	10	28 / 162
380-415 V	-	20	34 / 194
440/480 V	-	20	27 / 145
550/600 V	-	25	27 / 146

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Horsepower for Types 3RT2033

AC Voltage	1-ph	3-ph	FLA/LRA
110-120 V	2	-	24 / 144
200/208 V	3	7.5	25.3 / 210.5
220-240 V	5	10	28 / 225
440-480 V	-	20	27 / 225
550-600 V	-	25	27 / 225

Horsepower for Types 3RT2034

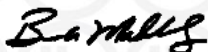
AC Voltage	1-ph	3-ph	FLA/LRA
110-120 V	2	-	24 / 144
200/208 V	5	10	32.2 / 259
220-240 V	5	10	28 / 225
440-480 V	-	25	34 / 281
550-600 V	-	30	32 / 270

Horsepower for Types 3RT2035

AC Voltage	1-ph	3-ph	FLA/LRA
110-120 V	3	-	34 / 204
200/208 V	5	10	32.2 / 259
220-240 V	7.5	15	42 / 337
440-480 V	-	30	40 / 337
550-600 V	-	40	41 / 330

Horsepower for Types 3RT2036

AC Voltage	1-ph	3-ph	FLA/LRA
110-120 V	3	-	34 / 204
200/208 V	7.5	15	48.3 / 388
220-240 V	10	15	50 / 337
440-480 V	-	40	52 / 412
550-600 V	-	50	52 / 412



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Horsepower for Types 3RT2037

AC Voltage	1-ph	3-ph	FLA/LRA
110-120 V	5	-	56 / 336
200/208 V	10	20	62.1 / 388
220-240 V	10	20	54 / 408
440-480 V	-	50	65 / 434
550-600 V	-	50	52 / 434

Horsepower for Types 3RT2038


AC Voltage	1-ph	3-ph	FLA/LRA
110-120 V	5	-	56 / 360
200/208 V	10	20	62.1 / 420
220-240 V	15	25	68 / 435
440-480 V	-	50	65 / 450
550-600 V	-	60	62 / 450

Auxiliary Contact Blocks 3RH29:

Laterally mounted versions
A300/Q300
10A / 240V general purpose

Front mounted versions
A600/Q600
10A / 240V general purpose

Solid-state compatible versions
0.1A / 240V general purpose
0.3A / 60V DC



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Auxiliary Contacts 3RV2:

Auxiliary contact blocks type 3RV29. For ratings refer to File E44653.

3RV2901-A, -B and -C:
1NO+1NC or 2NO or 2NC opposite polarity, side mounting
A600/Q300, 2 A 24 V dc
10 A 240 V ac General Use

3RV2901-1J:
2NO + 2NC opposite polarity, side mounting
A300/Q300, 2 A 24 V dc
10 A 240 V ac General Use

3RV2901-1D:
1NO + 1NC same polarity (changeover contact), top mounting
B600/R300
5A, 240 V ac, General Use

3RV2901-1E, -2E, -4E and -1F, -2F:
1NO + 1NC or 2NO opposite polarity, top mounting
C300/R300
2.5 A, 240 V ac General Use

3RV2901-1G:
1NO + 1NC same polarity (changeover)
100 mA, 125 V ac
300 mA, 60 V dc

3RV2921-1M, -2M, -4M:
2NO + 2NC, opposite polarity
A600/Q300, 2 A 24 V dc
10 A, 240 V ac General Use



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Short-circuit ratings: These devices have the following short-circuit ratings (RMS)

3RA2	Contactor	Max. Man. Mtr. Ctr. 3RV2	Short Circuit	Voltage
3RA2.1	3RT201, 3RA231, Size S00	16 A ⁴⁾	65 kA	480 V
3RA2.1	3RT201, 3RA231, Size S00	12.5 A ¹⁾²⁾	30 kA	600 V
3RA2.2	3RT2024, 3RA2324, Size S0	12.5 A ⁴⁾	65 kA	480 V
3RA2.2	3RT2025, 3RA2325, Size S0	16 A ³⁾⁴⁾	65 kA	480 V
3RA2.2	3RT2026, 3RA2326, Size S0	25 A ³⁾⁴⁾	65 kA	480 V
3RA2.2	3RT2027, 3RA2327, Size S0	32 A ³⁾⁴⁾	50 kA	480 V
3RA2.2	3RT202, 3RA232, Size S0	12.5 A ¹⁾²⁾	30 kA	600 V
3RA2.3	3RT203, Size S2	3RV2031: 73 A ⁴⁾	65 kA	240 V
3RA2.3	3RT203, Size S2	3RV2031: 52 A ⁴⁾	65 kA	480 V
3RA2.3	3RT203, Size S2	3RV2031: 73 A ⁴⁾	65 kA	480 V
3RA2.3	3RT203, Size S2	3RV2031: 65 A ⁴⁾	30 kA	480 V
3RA2.3	3RT203, Size S2	3RV2031: 73 A ⁴⁾	20 kA	480 V
3RA2.3	3RT203, Size S2	3RV2031: 36 A ⁵⁾	25 kA	600 V
3RA2.3	3RT203, Size S2	3RV2031: 52 A ⁵⁾	22 kA	600 V
3RA2.3	3RT203, Size S2	3RV2031: 73 A ⁵⁾	10 kA	600 V
3RA2.3	3RT203, Size S2	3RV2031: 73 A ⁶⁾	25 kA	600 V
3RA2.3	3RT203, Size S2	3RV2031: 65 A ⁶⁾	20 kA	600 V
3RA2.5	3RT203, Size S2	3RV2032: 73 A ⁴⁾	100 kA	240 V
3RA2.5	3RT203, Size S2	3RV2032: 52 A ⁴⁾	100 kA	480 V
3RA2.5	3RT203, Size S2	3RV2032: 73 A ⁴⁾	100 kA	480 V
3RA2.5	3RT203, Size S2	3RV2032: 65 A ⁴⁾	42 kA	480 V
3RA2.5	3RT203, Size S2	3RV2032: 73 A ⁴⁾	30 kA	480 V
3RA2.5	3RT203, Size S2	3RV2032: 36 A ⁵⁾	25 kA	600 V
3RA2.5	3RT203, Size S2	3RV2032: 52 A ⁵⁾	22 kA	600 V
3RA2.5	3RT203, Size S2	3RV2032: 73 A ⁵⁾	10 kA	600 V
3RA2.5	3RT203, Size S2	3RV2032: 73 A ⁶⁾	25 kA	600 V
3RA2.5	3RT203, Size S2	3RV2032: 65 A ⁶⁾	25 kA	600 V

- 1) Branch Circuit Protective Device for 600V-Ratings for 3RA2.1 (Size S00) and 3RA2.2 (Size S00): Max. Class J 50A
- 2) For 3RA2.1 (Size S00) and 3RA2.2 (Size S0) screw mounting: Short circuit test was conducted with an isolation between the device and the enclosure. This isolation may be achieved with mounting rail adapter type 3RA2922-1A or any other isolation. For mounting on Din Rail no isolation is necessary.
- 3) For screw mounting only: Short circuit test was conducted with an isolation between the device and the enclosure. This isolation may be achieved with mounting rail adapter type 3RA2922-1A or any other isolation. For mounting on min. 15mm height Din Rail no isolation is necessary.
- 4) Branch Circuit Protective Device for 240V and 480V-Ratings for 3RA2.2 (Size S0), 3RA2.3 and 3RA2.5 (Size S2): The appropriate BCPD need to be determined in accordance with the National Electrical Code, Article 430-53 and the application. The following devices are permitted:
Fuses: Classes RK1, RK5, J, G, T, CC or Circuit breakers: Listed Siemens type, with a marked short-circuit rating equal or larger than the available short-circuit current rating.
These devices were tested for group installation use at the above levels without any upstream branch circuit device.
- 5) Branch Circuit Protective Device for 600V-Ratings for 3RA2.3 and 3RA2.5 (Size S2): The appropriate BCPD need to be determined in accordance with the National Electrical Code, Article 430-53 and the application. The following devices are permitted:
Fuses: Classes RK1, RK5, J, G, T, CC or Circuit breakers: Listed Siemens type, with a marked short-circuit rating equal or larger than the available short-circuit current rating.
These devices were tested for group installation use at the above levels without any upstream branch circuit device.
- 6) Branch Circuit Protective Device for 600V, 25kA-Rating for 3RA2.3 and 3RA2.5: Max. Class J 225A
- 7) Branch Circuit Protective Device for 480V, 65kA-Rating for 3RA2.3 (Size S2) and 480V, 100kA-Rating for 3RA2.5 (Size S2): Max. Class J 300A
- 8) Branch Circuit Protective Device for 600V, 20kA-Rating for 3RA2.3 (Size S2) and 600V, 25kA-Rating for 3RA2.5 (Size S2):
Thermal magnetic Circuit Breaker, max. 200A, type 3VL31, frame FG, manufactured by Siemens

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NOMENCLATURE BREAKDOWN:

3RA2 1 1 0 4B A 15 0 ...
I II III IV V VI VII VIII IX

I. Basic Type 3RA2 - Basic Device

II. Type of controller

- 1 - contactor
- 2 - reversing contactor

III. Size of Contactor and 3RV20

- 1 - Size S00, with 3RT2.1 and 3RV2.1
- 2 - Size S0, with 3RT2.2 and 3RV2.2
- 3 - Size S2, with 3RT2.3 and 3RV2.31
(standard short circuit breaking capacity)
- 5 - Size S2, with 3RT2.3 and 3RV2.32
(higher short circuit breaking capacity)

IV. Aux.-contacts of 3RV20

- 0 – without
- 1 – 1 NO + 1 NC, side-mounted
- 2 – 2 NO, side-mounted
- 3 – 2 NC, side-mounted
- 4 – 1 change over, top mounted
- 5 – 1 NO + 1 NC, top mounted
- 6 – 1 NO + 1 NC with spring terminals, top mounted only for versions A, B and D
(according VI of the Nomenclature Breakdown)



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V. Setting range of 3RV20

Suffix	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
-1K	9	12.5	S00, S0
-4S	9.5	14	S2
-4A	10	16	S00, S0
-4T	12	17	S2
-4B	13	20	S0, S2
-4C	16	22	S0
-4D	18	25	S0, S2
-4E	27	32	S0
-4N	23	28	S0
-4E	22	32	S2
-4P	28	36	S2
-4U	32	40	S2
-4F	28	40	S2
-4V	35	45	S2
-4G	36	45	S2
-4H	40	50	S2
-4W	42	52	S2
-4X	49	59	S2
-4J	54	65	S2
-4K	62	73	S2



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VI. Type of Backplate and terminals

- A - Without mounting rail adapter, screw terminals.
- B - With mounting rail adapter (only for reverse starters Size S0 only), screw terminals
- D - With Fastbus adapter, screw terminals
(only for Size S00 and S0)
- E - Without Mounting rail adapter, spring terminals
- F - With mounting rail adapter (only for reverse starters
Size S0 only), spring terminals
- H - With Fastbus adapter, spring terminals, Size S00 and S0
- S - With Fastbus adapter, spring terminals, Size S00

VII. Type of used contactor

- 15 - 3RT2015 contactor or 3RA2315 reversing contactor
- 16 - 3RT2016 contactor or 3RA2316 reversing contactor
- 17 - 3RT2017 contactor or 3RA2317 reversing contactor
- 18 - 3RT2018 contactor or 3RA2318 reversing contactor
- 24 - 3RT2024 contactor or 3RA2324 reversing contactor
- 25 - 3RT2025 contactor or 3RA2325 reversing contactor
- 26 - 3RT2026 contactor or 3RA2326 reversing contactor
- 27 - 3RT2027 contactor or 3RA2327 reversing contactor
- 34 - 3RT2034 contactor
- 35 - 3RT2035 contactor
- 36 - 3RT2036 contactor
- 37 - 3RT2037 contactor
- 38 - 3RT2038 contactor

VIII. Auxiliary contact arrangement

- 0 - with 1 NO + 1 NC for Size S0 and S2
- 1 - with 1 NO for Size S00 only
- 2 - with 1 NC for Size S00 only

IX. Indicates Coil, Voltage and optional external overvoltage protection
Indicates coil voltage and external overvoltage protection



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X. Manufacturers Identification
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3RA1921-1D, 3RA2921-1A, 3RA2911-2A, 3RA2921-2A, 3RA2911-2F, 3RA2921-2F: Link modules to connect 3RV2 to 3RT2 contactors.

3RA2921-1B: Link modules to connect 3RV2 to 3RT2 contactors or 3RW301, 3RW302 3RW402, 3RF24 or 3RF34 solid-state motor controllers.

3RA2931-1A: Link modules, max. 65A, to connect 3RV2 to 3RT2 contactors.

3RA2922-1A, 3RA2932-1A 3RA2942-1A: Adapter for standard din rail mounting.

3RA2902-1B: Side module for adapter for standard din rail mounting.

3RA2911-1C: Spacer module for AC-contactors

8US1998-1AA00: Connecting cotter

<u>3RA2913</u>	<u>1B</u>	<u>B1</u>
I	II	III

I. Size of Basic Devices


3RA2913 – Assembly Kit for contactors 3RT201 and manual motor controller 3RV201
3RA2923 – Assembly Kit for contactors 3RT202 and manual motor controller 3RV202
3RA2933 – Assembly Kit for contactors 3RT203 and manual motor controller 3RV203
3RA2943 – Assembly Kit for contactors 3RT204 and manual motor controller 3RV204

II. Type of backplate

1B - Mounting rail adapter
1D - Fastbus adapter

III. Type of terminals

B1 - Screw terminals
B2 - Spring terminals



Bruce Mahrenholz, Director North American Certification Program

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