



Certificate of Compliance

Certificate: 2494434 **Master Contract:** 165071 (012730_C_000)
Project: 70142351 **Date Issued:** 2017-08-11
Issued to: Siemens AG
DF CP R&D VC 2
Werner-von-Siemens-Strasse 48
Amberg, 92224
GERMANY

The products listed below are eligible to bear the CSA Mark shown



Issued by: J.-C. Chow
J.-C. Chow

PRODUCTS

CLASS 3211 04 - INDUSTRIAL CONTROL EQUIPMENT - Motor Controllers - Magnetic
CLASS 3211 24 - INDUSTRIAL CONTROL EQUIPMENT - Motor Controllers - Magnetic
CLASS 3211 37 - INDUSTRIAL CONTROL EQUIPMENT - Sub-Assemblies - Components

Part-A (Class 3211-04, Class 3211-24)

Magnetic motor controllers, direct-on-line or reversing, Types 3RA2, open type assemblies including Certified manual motor controllers and magnetic contactors, with following ratings:

Main contacts, lesser rating of Certified contactor (3RT2) and manual motor controller (3RV2) assemblies:

Type 3RA2.1: lesser rating of Types 3RT201 and 3RV2.1

Type 3RA2.2: lesser rating of Types 3RT202 and 3RV2.2

Type 3RA2.3: lesser rating of Types 3RT203 and 3RV2.31; Type 3RA213.-4K rated 65 A max

Type 3RA2.5: lesser rating of Types 3RT203 and 3RV2.32; Type 3RA215.-4K rated 65 A max

Short-circuit ratings (RMS symmetrical amperes):

Type	Contactor or Reversing	MMC 3RV2	Short circuit
3RA2.1	3RT201 or 3RA231, size S00	Max 16 A, 3RV2.1 ^(Note 1)	65 kA, 480 V
3RA2.1	3RT201 or 3RA231, size S00	Max 12.5 A, 3RV2.1 ^(Notes 1, 2, 3)	30 kA, 600 V
3RA2.2	3RT2024 or 3RA2324, size S0	Max 12.5 A, 3RV2.2 ^(Note 1)	65 kA, 480 V
3RA2.2	3RT2025 or 3RA2325, size S0	Max 16 A, 3RV2.2 ^(Notes 1, 4)	65 kA, 480 V



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3RA2.2	3RT2026 or 3RA2326, size S0	Max 25 A, 3RV2.2 (Notes 1, 4)	65 kA, 480 V
3RA2.2	3RT2027 or 3RA2327, size S0	Max 32 A, 3RV2.2 (Notes 1, 4)	50 kA, 480 V
3RA2.2	3RT202 or 3RA232, size S0	Max 12.5 A, 3RV2.2 (Notes 1, 2, 3)	30 kA, 600 V
3RA2.3	3RT203, size S2	Max 73 A, 3RV2.31 (Note 5)	65 kA, 240 V
3RA2.3	3RT203, size S2	Max 52 A, 3RV2.31 (Note 5)	65 kA, 480 V
3RA2.3	3RT203, size S2	Max 73 A, 3RV2.31 (Notes 5, 7)	65 kA, 480 V
3RA2.3	3RT203, size S2	Max 65 A, 3RV2.31 (Note 5)	30 kA, 480 V
3RA2.3	3RT203, size S2	Max 73 A, 3RV2.31 (Note 5)	20 kA, 480 V
3RA2.3	3RT203, size S2	Max 36 A, 3RV2.31 (Note 5)	25 kA, 600 V
3RA2.3	3RT203, size S2	Max 73 A, 3RV2.31 (Notes 5, 6)	25 kA, 600 V
3RA2.3	3RT203, size S2	Max 52 A, 3RV2.31 (Note 5)	22 kA, 600 V
3RA2.3	3RT203, size S2	Max 73 A, 3RV2.31 (Note 5)	10 kA, 600 V
3RA2.5	3RT203, size S2	Max 52 A, 3RV2.32 (Note 5)	100 kA, 480 V
3RA2.5	3RT203, size S2	Max 73 A, 3RV2.32 (Notes 5, 7)	100 kA, 480 V
3RA2.5	3RT203, size S2	Max 65 A, 3RV2.32 (Note 5)	42 kA, 480 V
3RA2.5	3RT203, size S2	Max 73 A, 3RV2.32 (Note 5)	30 kA, 480 V
3RA2.5	3RT203, size S2	Max 36 A, 3RV2.32 (Note 5)	25 kA, 600 V
3RA2.5	3RT203, size S2	Max 73 A, 3RV2.32 (Notes 5, 6)	25 kA, 600 V
3RA2.5	3RT203, size S2	Max 65 A, 3RV2.32 (Notes 5, 8)	25 kA, 600 V
3RA2.5	3RT203, size S2	Max 52 A, 3RV2.32 (Note 5)	22 kA, 600 V
3RA2.5	3RT203, size S2	Max 73 A, 3RV2.32 (Note 5)	10 kA, 600 V

Coil Ratings: 24 through 600 Vac; or 12 through 250 Vdc

Notes:

- For Types 3RA211 and 3RA221 (size S00), 3RA212 and 3RA222 (size S0), these open type assemblies are rated for use in an ambient temperature of 40°C max, except for assemblies provided with 32 A MMC 3RV2.2 are rated for use in a surrounding air temperature of 40°C max.
- For Types 3RA2.1 and 3RA2.2 (size S00 or S0) at 30kA, 600V short-circuit rating, these assemblies with MMC 3RV2 are to be installed with Branch Circuit Protective Device Max Fuse 50 A Class J.
- For Types 3RA2.1 and 3RA2.2 (size S00 or S0) at 30kA, 600V short-circuit rating, these screw-mounting assemblies are to be installed with an isolation between the assembly and enclosure, according to test conducted with mounting adapter Type 3RA2922-1A; the isolation may be achieved by mounting adapter, Type 8US1. For device assembly mounted on Din rail, no isolation is necessary.
- For Type 3RA2.2 (size S0) at specified 480V short-circuit rating, these screw-mounting assemblies are to be installed with an isolation between the assembly and enclosure, according to test conducted with mounting adapter Type 3RA2922-1A; the isolation may be achieved by mounting adapter, Type 8US1. For device assembly mounted on Din rail with minimum 15 mm spacing to enclosure, no isolation is necessary.
- For Types 3RA213 and 3RA215 (size S2), these open type assemblies are rated for use in a surrounding air temperature of 40°C max.
- For 3RA2.3 and 3RA2.5 at 25kA, 600V short-circuit rating, these assemblies with MMC 3RV2.3 rated up to 73 Amax are to be installed with Branch Circuit Protective Device Max Fuse 225 A Class J.
- For Types 3RA2.3 (size S2) at 65kA, 480V and 3RA2.5 (size S2) at 100kA, 480V short-circuit rating, these assemblies with MMC 3RV2.31 and 3RV2.32 (respectively) rated up to 73 Amax are to be installed with Branch Circuit Protective Device Max Fuse 300 A Class J.



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8. For Types 3RA2.3 at 20kA, 600V and 3RA2.5 at 25kA, 600V short-circuit rating, these assemblies with MMC 3RV2.31 and 3RV2.32 (respectively) rated up to 65 Amax are to be installed with Branch Circuit Protective Device Max Circuit Breaker 200 A Type 3VL31 (frame FG by Siemens).
9. These devices may be provided with accessories of Type 8US1 Fastbus system.
10. The type designation may be completed with suffixes indicating shape of contacts, terminal design, mounting etc.

Part-B (Class 3211-04, Class 3211-24)

Type F combination motor controllers, direct-on-line or reversing, Types 3RA2, open type assemblies including Certified Type E self-protected combination motor controllers and magnetic contactors, with following ratings:

Main Contacts, lesser rating of Certified contactor (3RT2) and Type E self-protected combination motor controller (3RV2) assemblies:

Type 3RA2.1: lesser rating of Types 3RT201 and 3RV2.1

Type 3RA2.2: lesser rating of Types 3RT202 and 3RV2.2

Type 3RA2.3: lesser rating of Types 3RT203 and 3RV2.31

Type 3RA2.5: lesser rating of Types 3RT203 and 3RV2.32

Short-circuit ratings (RMS symmetrical amperes):

Type	Contactor or Reversing	Type E CMC 3RV2	Short circuit
3RA2.1	3RT201 or 3RA231, size S00	Max 16 A, 3RV2.1 (Note 1)	65 kA, 480Y/277 V, 240 V
3RA2.1	3RT201 or 3RA231, size S00	Max 10 A, 3RV2.1 (Notes 1, 2)	30 kA, 600Y/347 V
3RA2.1	3RT201 or 3RA231, size S00	Max 12.5 A, 3RV2.1 (Notes 1, 3, 5)	30 kA, 600Y/347 V
3RA2.2	3RT2024 or 3RA2324, size S0	Max 12.5 A, 3RV2.2 (Note 1)	65 kA, 480Y/277 V, 240 V
3RA2.2	3RT2025 or 3RA2325, size S0	Max 16 A, 3RV2.2 (Notes 1, 4)	65 kA, 480Y/277 V, 240 V
3RA2.2	3RT2026 or 3RA2326, size S0	Max 25 A, 3RV2.2 (Notes 1, 4)	65 kA, 480Y/277 V, 240 V
3RA2.2	3RT2027 or 3RA2327, size S0	Max 32 A, 3RV2.2 (Notes 1, 4)	50 kA, 480Y/277 V, 240 V
3RA2.2	3RT202 or 3RA232, size S0	Max 10 A, 3RV2.2 (Notes 1, 2)	30 kA, 600Y/347 V
3RA2.2	3RT202 or 3RA232, size S0	Max 12.5 A, 3RV2.2 (Notes 1, 3, 5)	30 kA, 600Y/347 V
3RA2.3	3RT203, size S2	Max 73 A, 3RV2031 (Note 6)	65 kA, 240 V
3RA2.3	3RT203, size S2	Max 52 A, 3RV2031 (Note 6)	65 kA, 480Y/277 V
3RA2.3	3RT203, size S2	Max 73 A, 3RV2031 (Note 6)	20 kA, 480Y/277 V
3RA2.3	3RT203, size S2	Max 36 A, 3RV2031 (Note 6)	25 kA, 600Y/347 V
3RA2.3	3RT203, size S2	Max 52 A, 3RV2031 (Note 6)	22 kA, 600Y/347 V
3RA2.5	3RT203, size S2	Max 73 A, 3RV2032 (Note 6)	100 kA, 240 V
3RA2.5	3RT203, size S2	Max 52 A, 3RV2032 (Note 6)	100 kA, 480Y/277 V
3RA2.5	3RT203, size S2	Max 73 A, 3RV2032 (Note 6)	30 kA, 480Y/277 V
3RA2.5	3RT203, size S2	Max 36 A, 3RV2032 (Note 6)	25 kA, 600Y/347 V
3RA2.5	3RT203, size S2	Max 52 A, 3RV2032 (Note 6)	22 kA, 600Y/347 V

Coil Ratings: 24 through 600 Vac; or 12 through 250 Vdc

Notes:

1. For Types 3RA211 and 3RA221 (size S00), 3RA212 and 3RA222 (size S0), these open type assemblies are rated for use in an ambient temperature of 40°C max, except for assemblies provided with 32 A CMC 3RV2.2 is rated for use in a surrounding air temperature of 40°C max.



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2. For Types 3RA2.1 and 3RA2.2 (size S00 or S0) at 30kA, 600V short-circuit rating, these assemblies installed on Fastbus system are to be mounted with terminal adapter Type 3RV2928-1K for CMC 3RV2 (see reports 165071-2124593 and -2194944).
3. For Types 3RA2.1 and 3RA2.2 (size S00 or S0) at 30kA, 600V short-circuit rating, these screw-mounting assemblies are to be installed with an isolation provided between the assembly and enclosure, according to test conducted with mounting adapter Type 3RA2922-1A; the isolation may be achieved by mounting adapter, Type 8US1. For device assembly mounted on Din rail with minimum 15 mm spacing to enclosure, no isolation is necessary.
4. For Type 3RA2.2 (size S0) at specified 480V short-circuit rating, these screw-mounting assemblies are to be installed with an isolation between the assembly and enclosure, according to test conducted with mounting adapter Type 3RA2922-1A; the isolation may be achieved by mounting adapter, Type 8US1. For device assembly mounted on Din rail, no isolation is necessary.
5. For Types 3RA2.1 and 3RA2.2 (size S00 or S0) at 30kA, 600V short-circuit rating, these assemblies installed without Fastbus system are to be mounted with terminal adapter Type 3RV2928-1K for CMC 3RV2 (see reports 165071-2124593 and -2194944), or with terminal adapter kit Type 3RV2928-1H for CMC 3RV2 (see reports 165071-1077602 and -2194944).
6. For Types 3RA213 and 3RA215 (size S2), these open type assemblies are rated for use in a surrounding air temperature of 40°C max.
7. These devices may be provided with accessories of Type 8US1 Fastbus system.

Part-C (Class 3211-37)

Accessories:

Link modules to connect manual/combination motor controller 3RV20 to contactor 3RT2: Types 3RA1921-1D, 3RA2911-2A, 3RA2911-2F, 3RA2921-1A, 3RA2921-2A, 3RA2921-2F; Type 3RA2931-1A rated 65 A max.

Link module to connect manual/combination motor controller 3RV20 to contactor 3RT2; or to solid-state motor controllers 3RW301, 3RW302, 3RW402, 3RF24, 3RF34: Type 3RA2921-1B.

Mounting adapter for standard Din rail: Types 3RA2922-1A, 3RA2932-1A, 3RA2942-1A, 3RA2902-1B, may be followed by additional numbers and/or letters.

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

Assembly Sets: Types 3RA2913, 3RA2923, 3RA2933 and 3RA2943.

General Notes:

1. The type designation may be completed with suffixes indicating shape of contacts, terminal design, mounting, etc.
2. Open-type assemblies are Certified only for use in complete assemblies where the suitability of the combination is subject to further investigation.
3. The auxiliary contacts are available as contact blocks Type 3RH29 (side or top mounted to contactor 3RT2, see report 165071-2227275), integrated auxiliary contacts (contactor 3RT2, see reports 165071-2227270 and -2234990), and/or contact blocks Type 3RV29 (see report 165071-1097902).

Nomenclature Breakdown I (Magnetic motor controllers, Type F Combination motor controllers)

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



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- I Controller designation
3RA2 Basic device
- II Controller type
 - 1 Direct-on-line contactor
 - 2 Reversing contactor
- III Size of controller, contactor Type and 3RV20
 - 1 Size S00, contactor Type 3RT2.1 and 3RV2.1
 - 2 Size S0, contactor Type 3RT2.2 and 3RV2.1
 - 3 Size S2, contactor Type 3RT2.3 and 3RV2.31 (standard short circuit breaking capacity)
 - 5 Size S2, contactor Type 3RT2.3 and 3RV2.32 (higher short circuit breaking capacity)
- IV Auxiliary contact arrangements of the 3RV20
 - 0 None provided
 - 1 1 normally open and 1 normally closed, side mounted
 - 2 2 normally open, side mounted
 - 3 2 normally closed, side mounted
 - 4 1 changeover contact, top mounted
 - 5 1 normally open and 1 normally closed, top mounted
 - 6 1 normally open and 1 normally closed with spring terminals, top mounted (only for versions A, B and D according VI of the Nomenclature Breakdown)
- V Current setting range of 3RV20

Suffix	Setting range	Size
0A	0.11 - 0.16 A	S00, S0
0B	0.14 - 0.2 A	S00, S0
0C	0.18 - 0.25 A	S00, S0
0D	0.22 - 0.32 A	S00, S0
0E	0.28 - 0.4 A	S00, S0
0F	0.35 - 0.5 A	S00, S0
0G	0.45 - 0.63 A	S00, S0
0H	0.55 - 0.8 A	S00, S0
0J	0.7 - 1.0 A	S00, S0
0K	0.9 - 1.25 A	S00, S0
1A	1.1 - 1.6 A	S00, S0
1B	1.4 - 2 A	S00, S0
1C	1.8 - 2.5 A	S00, S0
1D	2.2 - 3.2 A	S00, S0
1E	2.8 - 4 A	S00, S0
1F	3.5 - 5 A	S00, S0
1G	4.5 - 6.3 A	S00, S0
1H	5.5 - 8 A	S00, S0
1J	7 - 10 A	S00, S0
1K	9 - 12.5 A	S00, S0
4S	9.5 - 14 A	S2
4A	10 - 16 A	S00, S0
4T	12 - 17 A	S2



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4B	13 - 20 A	S0, S2
4C	16 - 22 A	S0
4D	18 - 25 A	S0, S2
4N	23 - 28 A	S0
4E	27 - 32 A	S0
4E	22 - 32 A	S2
4P	28 - 36 A	S2
4U	32 - 40 A	S2
4F	28 - 40 A	S2
4V	35 - 45 A	S2
4G	36 - 45 A	S2
4H	40 - 50 A	S2
4W	42 - 52 A	S2
4X	49 - 59 A	S2
4J	54 - 65 A	S2
4K	62 - 73 A	S2

VI Mounting and type of terminals

- A Without Mounting rail adapter, screw terminals
- B With Mounting rail adapter (only for reversing size S0), screw terminals
- D With Fastbus adapter, screw terminals (only for size S00 or S0)
- E Without Mounting rail adapter, spring terminals
- F With Mounting rail adapter (only for reversing size S0), spring terminals (not for "Part-B")
- H With Fastbus adapter (size S00 and S0), spring terminals (not for "Part-B")
- S With Fastbus adapter (size S00), spring terminals (not for "Part-B")

VII Type of contactor or reversing contactor

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

VIII Auxiliary contact arrangement

- 0 With 1 NO + 1 NC for size S0 or 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

X Manufacturers Identification



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Nomenclature Breakdown II (Accessories: Assembly sets)

3RA29 13 - 1B B1
I II III IV

I Type designation

3RA29 Assembly set for contactors and manual motor controllers

II Size of device

13 Size S00 or S0, for contactors 3RT201 and manual motor controller 3RV201

23 Size S00 or S0, for contactors 3RT202 and manual motor controller 3RV202

33 Size S2, for contactors 3RT203 and manual motor controller 3RV203

43 Size S3, for contactors 3RT204 and manual motor controller 3RV204

III Type of backplate (mounting)

1B Mounting rail adapter

1D Fastbus adapter

IV Type of terminals

B1 Screw terminals

B2 Spring terminals

APPLICABLE REQUIREMENTS

- CSA-C22.2 No. 14-13 - Industrial Control Equipment
- CAN/CSA-C22.2 No 60947-1-13 - Low-Voltage Switchgear and Controlgear - Part 1: General rules
- CAN/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