

# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20130114 – E143112  
**Report Reference** E143112 – 20061123  
**Issue Date** 2013-January-14

**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, Mechanically Operated and Solid-state

Solid state motor controllers or reversing motor controllers, Type 3RF24, or 3RF34, followed by 03, 05, 10, 12 or 16, followed by -1, -2 or -4, followed by B, followed by B or D, followed by 0, 1, 2, 3, 4 or 5, followed by 4 or 6.

Accessories:

Connection Adapter Type 3RF3900-0QA88.  
Control Connector Type 3RF2900-2TA88.


(See following page for additional model information.)

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

**Standard(s) for Safety:** ANSI/UL 508, "Industrial Control Equipment" and CAN/CSA-C22.2 No. 14, "Industrial Control Equipment."

**Additional Information:** See the UL Online Certifications Directory at [www.ul.com/database](http://www.ul.com/database) for additional information

Only those products bearing the UL Listing Mark for the US and Canada should be considered as being covered by UL's Listing and Follow-Up Service meeting the appropriate requirements for US and Canada.

The UL Listing Mark for the US and Canada generally includes: the UL in a circle symbol with "C" and "US" identifiers:  the word "LISTED"; a control number (may be alphanumeric) assigned by UL; and the product category name (product identifier) as indicated in the appropriate UL Directory.

Look for the UL Listing 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.

## Additional Model Information:

### **General:**

These devices are open type, 3 phase solid state motor controllers or reversing motor controllers with 2 phases controlled for use in industrial applications. For the reversing controller the interlocking between the directions is elektronical and verified during the Overload Test.

### **Ratings:**

#### Motor Controllers

3RF2405	Voltage	1-ph	3-ph	FLA	LRA
3RF3405	115 V	1/10 hp	--	--	--
	200/208 V	1/4 hp	1/2 hp	2.5 A	23 A
	230/240 V	1/4 hp	3/4 hp	3.2 A	25 A
	460/480 V	--	2 hp	3.4 A	25 A
	575/600 V	--	2 hp	2.7 A	20 A
3RF2410	Voltage	1-ph	3-ph	FLA	LRA
3RF3410	115 V	1/4 hp	--	--	--
	200/208 V	1/2 hp	1 1/2 hp	6.9 A	46 A
	230/240 V	3/4 hp	2 hp	6.8 A	50 A
	460/480 V	--	3 hp	4.8 A	32 A
	575/600 V	--	5 hp	6.1 A	36.8 A
3RF2412	Voltage	1-ph	3-ph	FLA	LRA
3RF3412	115 V	1/3 hp	--	--	--
	200/208 V	1/2 hp	2 hp	7.8 A	57.5 A
	230/240 V	3/4 hp	2 hp	6.8 A	50 A
	460/480 V	--	5 hp	7.6 A	46 A
	575/600 V	--	5 hp	6.1 A	36.8 A
3RF2416	Voltage	1-ph	3-ph	FLA	LRA
3RF3416	115 V	1/3 hp	--	--	--
	200/208 V	3/4 hp	2 hp	7.8 A	57.5 A
	230/240 V	1 hp	2 hp	6.8 A	50 A
	460/480 V	--	5 hp	7.6 A	46 A
	575/600 V	--	7 1/2 hp	9.0 A	50.8 A



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## Reversing Motor Controllers

	Voltage	1-ph	3-ph	FLA	LRA
3RF2403	115 V	1/10 hp	--	--	--
3RF3403	200/208 V	1/4 hp	1/2 hp	2.5 A	23 A
	230/240 V	1/4 hp	3/4 hp	3.2 A	25 A
	460/480 V	--	2 hp	3.4 A	25 A

	Voltage	1-ph	3-ph	FLA	LRA
3RF2405	115 V	1/6 hp	--	--	--
3RF3405	200/208 V	1/3 hp	1 hp	4.8 A	34.5 A
	230/240 V	1/3 hp	1 hp	4.2 A	30 A
	460/480 V	--	3 hp	4.8 A	32 A

	Voltage	1-ph	3-ph	FLA	LRA
3RF2410	115 V	1/4 hp	--	--	--
3RF3410	200/208 V	1/2 hp	1 1/2 hp	6.9 A	46 A
	230/240 V	3/4 hp	2 hp	6.8 A	50 A
	460/480 V	--	3 hp	4.8 A	32 A

## General Use or AC Resistance Motor Controller

3RF2405 / 3RF3405 3.6 A  
3RF2410 / 3RF3410 7 A  
3RF2412 / 3RF3412 8.5 A  
3RF2416 / 3RF3416 10 A

## General Use or AC Resistance Reversing Motor Controller

3RF2403 / 3RF3403 3.5 A  
3RF2405 / 3RF3405 5 A  
3RF2410 / 3RF3410 6.8 A

Rated Voltage: 48-600 V ac motor controller  
48-480 V ac reversing motor controller

Control Voltage: 24 V dc, 24 V ac/dc, 110 V ac, 4–30 V dc (TTL),  
230 V AC, 110 V – 230 V AC

Surrounding Air Temperature: 50 °C



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**Short Circuit Ratings – Motor Controllers**

Type	Fuse Class K5, RK5, RK1, J	Short Circuit	Voltage
3RF2405 / 3RF3405	max 10 A	5 kA	600V
3RF2410 / 3RF3410	max 20 A	5 kA	600V
3RF2412 / 3RF3412	max 30 A	5 kA	600V
3RF2416 / 3RF3416	max 30 A	5 kA	600V

Type	CB 3RV2711	CB 3RV1721	Comb.Mtr.Cntrl. 3RV2.1/2.2	Short Circuit	Voltage
3RF2405/3RF3405	max 3.2 A	max 4 A	max 4 A	5 kA	600 V
3RF2410/3RF3410	max 6.3 A	max 8 A	max 8 A	5 kA	480 V
	max 5.0 A	max 8 A	max 5 A	5 kA	600 V
3RF2412/3RF3412	max 10 A	max 10 A	max 10 A	5 kA	480 V
	max 6.3 A	max 10 A	max 8 A	5 kA	600 V
3RF2416/3RF3416	max 10 A	max 10 A	max 10 A	5 kA	480 V
	max 6.3 A	max 10 A	max 8 A	5 kA	600 V

**Short Circuit Ratings - Reversing Motor Controllers**

Type	Fuse Class K5, RK5, RK1, J	Short Circuit	Voltage
3RF2403 / 3RF3403	max 10 A	5 kA	480V
3RF2405 / 3RF3405	max 10 A	5 kA	480V
3RF2410 / 3RF3410	max 20 A	5 kA	480V

Type	CB 3RV2711	CB 3RV1721	Comb.Mtr.Cntrl. 3RV2.1/2.2	Short Circuit	Voltage
3RF2403/3RF3403	max 4.0 A	max 4 A	max 4 A	5 kA	480 V
3RF2405/3RF3405	max 5.0 A	max 5 A	max 5 A	5 kA	480 V
3RF2410/3RF3410	max 6.3 A	max 8 A	max 8 A	5 kA	480 V



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Motor Controller High Capacity Short Circuit Current Ratings, when protected by fuse:

Type	SCCR	Fuse Voltage	Fuse Class Rating	Fuse Type	Enclosure
3RF2405/3RF3405		65kA 480V	25A	J / TD	150 / 220 / 150
		65kA 600V	45A	J / TD	150 / 220 / 150
3RF2410/3RF3410		65kA 480V	45A	J / TD	150 / 220 / 150
		65kA 600V	45A	J / TD	150 / 220 / 150
3RF2412/3RF3412		65kA 480V	45A	J / TD	150 / 220 / 150
		65kA 600V	50A	J / TD	150 / 220 / 150
3RF2416/3RF3416		65kA 480V	50A	J / TD	150 / 220 / 150
		65kA 600V	50A	J / TD	150 / 220 / 150
3RF2405/3RF3405		65kA 480V	16A	3NE1813-0	150 / 220 / 150
		65kA 600V	35A	3NE1803-0	150 / 220 / 150
3RF2410/3RF3410		65kA 480V	35A	3NE1803-0	150 / 220 / 150
		65kA 600V	35A	3NE1803-0	150 / 220 / 150
3RF2412/3RF3412		65kA 480V	63A	3NE1818-0	150 / 220 / 150
		65kA 600V	50A	3NE1817-0	150 / 220 / 150
3RF2416/3RF3416		65kA 480V	63A	3NE1818-0	150 / 220 / 150
		65kA 600V	50A	3NE1817-0	150 / 220 / 150
3RF2405/3RF3405		65kA 480V	32A	3NE4101	150 / 220 / 150
		65kA 600V	50A	3NE4117	150 / 220 / 150
3RF2410/3RF3410		65kA 480V	50A	3NE4117	150 / 220 / 150
		65kA 600V	50A	3NE4117	150 / 220 / 150
3RF2412/3RF3412		65kA 480V	50A	3NE4117	150 / 220 / 150
		65kA 600V	50A	3NE4117	150 / 220 / 150
3RF2416/3RF3416		65kA 480V	50A	3NE4117	150 / 220 / 150
		65kA 600V	50A	3NE4117	150 / 220 / 150
3RF2405/3RF3405		65kA 480V	25A	3NE8715-1	150 / 220 / 150
		65kA 600V	50A	3NE8717-1	150 / 220 / 150
3RF2410/3RF3410		65kA 480V	50A	3NE8717-1	150 / 220 / 150
		65kA 600V	50A	3NE8717-1	150 / 220 / 150
3RF2412/3RF3412		65kA 480V	50A	3NE8717-1	150 / 220 / 150
		65kA 600V	50A	3NE8717-1	150 / 220 / 150
3RF2416/3RF3416		65kA 480V	50A	3NE8717-1	150 / 220 / 150
		65kA 600V	50A	3NE8717-1	150 / 220 / 150
3RF2405/3RF3405		65kA 480V	25A	3NE8015-1	150 / 220 / 150
		65kA 600V	63A	3NE8018-1	150 / 220 / 150
3RF2410/3RF3410		65kA 480V	63A	3NE8018-1	150 / 220 / 150
		65kA 600V	63A	3NE8018-1	150 / 220 / 150

  
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3RF2412/3RF3412	65kA	480V	63A	3NE8018-1	150 / 220 / 150
	65kA	600V	63A	3NE8018-1	150 / 220 / 150
3RF2416/3RF3416	65kA	480V	63A	3NE8018-1	150 / 220 / 150
	65kA	600V	63A	3NE8018-1	150 / 220 / 150
3RF2412/3RF3412	65kA	480V	80A	3NE1020-2	150 / 220 / 150
	65kA	600V	80A	3NE1020-2	150 / 220 / 150
3RF2416/3RF3416	65kA	480V	80A	3NE1020-2	150 / 220 / 150
	65kA	600V	80A	3NE1020-2	150 / 220 / 150

Motor Controller High Capacity Short Circuit Current Ratings when protected by circuit breaker:  
CB

Type	SCCR	Voltage	Rating	CB Type	Enclosure
3RF2405/3RF3405	50kA	480V	4A	3RV1721	150 / 220 / 150
	10kA	600V	4A	3RV1721	150 / 220 / 150
3RF2410/3RF3410	5kA	480V	8A	3RV1721	150 / 220 / 150
	5kA	600V	8A	3RV1721	150 / 220 / 150
3RF2412/3RF3412	5kA	480V	10A	3RV1721	150 / 220 / 150
	5kA	600V	10A	3RV1721	150 / 220 / 150
3RF2416/3RF3416	5kA	480V	10A	3RV1721	150 / 220 / 150
	5kA	600V	10A	3RV1721	150 / 220 / 150

Type	SCCR	Voltage	Rating	CB Type	Enclosure
3RF2405/3RF3405	65kA	480V	3.2A	3RV2711	150 / 220 / 150
	10kA	600V	3.2A	3RV2711	150 / 220 / 150
3RF2410/3RF3410	65kA	480V	3.2A	3RV2711	150 / 220 / 150
	10kA	600V	3.2A	3RV2711	150 / 220 / 150
3RF2412/3RF3412	65kA	480V	3.2A	3RV2711	150 / 220 / 150
	10kA	600V	3.2A	3RV2711	150 / 220 / 150
3RF2416/3RF3416	65kA	480V	3.2A	3RV2711	150 / 220 / 150
	10kA	600V	3.2A	3RV2711	150 / 220 / 150

Motor Controller High Capacity Short Circuit Current Ratings when protected by combination motor controller:

Type	SCCR	Voltage	Rating	Comb.Mtr.	Cntrl. Type	Enclosure
3RF2405/3RF3405	65kA	480V	3.2A	3RV2.1/2.2	3RV2.1/2.2	150 / 220 / 150
	30kA	600V	3.2A	3RV2.1/2.2	3RV2.1/2.2	150 / 220 / 150
3RF2410/3RF3410	65kA	480V	3.2A	3RV2.1/2.2	3RV2.1/2.2	150 / 220 / 150
	30kA	600V	3.2A	3RV2.1/2.2	3RV2.1/2.2	150 / 220 / 150
3RF2412/3RF3412	65kA	480V	3.2A	3RV2.1/2.2	3RV2.1/2.2	150 / 220 / 150
	30kA	600V	3.2A	3RV2.1/2.2	3RV2.1/2.2	150 / 220 / 150
3RF2416/3RF3416	65kA	480V	3.2A	3RV2.1/2.2	3RV2.1/2.2	150 / 220 / 150
	30kA	600V	3.2A	3RV2.1/2.2	3RV2.1/2.2	150 / 220 / 150

  
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Reversing Motor Controller High Capacity Short Circuit Current Ratings, when protected by fuse:

Type	SCCR	Fuse Voltage	Fuse Class Rating	Fuse Type	Enclosure
3RF2403/3RF3403		65kA 480V	45A	J / TD	150 / 220 / 150
3RF2405/3RF3405		65kA 480V	45A	J / TD	150 / 220 / 150
3RF2410/3RF3410		65kA 480V	45A	J / TD	150 / 220 / 150
3RF2403/3RF3403		65kA 480V	35A	3NE1803-0	150 / 220 / 150
3RF2405/3RF3405		65kA 480V	35A	3NE1803-0	150 / 220 / 150
3RF2410/3RF3410		65kA 480V	35A	3NE1803-0	150 / 220 / 150
3RF2403/3RF3403		65kA 480V	50A	3NE4117	150 / 220 / 150
3RF2405/3RF3405		65kA 480V	50A	3NE4117	150 / 220 / 150
3RF2410/3RF3410		65kA 480V	50A	3NE4117	150 / 220 / 150
3RF2403/3RF3403		65kA 480V	50A	3NE8717-1	150 / 220 / 150
3RF2405/3RF3405		65kA 480V	50A	3NE8717-1	150 / 220 / 150
3RF2410/3RF3410		65kA 480V	50A	3NE8717-1	150 / 220 / 150
3RF2403/3RF3403		65kA 480V	63A	3NE8018-1	150 / 220 / 150
3RF2405/3RF3405		65kA 480V	63A	3NE8018-1	150 / 220 / 150
3RF2410/3RF3410		65kA 480V	63A	3NE8018-1	150 / 220 / 150

Reversing Motor Controller High Capacity Short Circuit Current Ratings when protected by circuit breaker:

Type	SCCR	CB Voltage	CB Rating	CB Type	Enclosure
3RF2403/3RF3403		50kA 480V	4A	3RV1721	150 / 220 / 150
3RF2405/3RF3405		30kA 480V	5A	3RV1721	150 / 220 / 150
3RF2410/3RF3410		5kA 480V	8A	3RV1721	150 / 220 / 150
Type	SCCR	CB Voltage	CB Rating	CB Type	Enclosure
3RF2403/3RF3403		65kA 480V	4A	3RV2711	150 / 220 / 150
3RF2405/3RF3405		65kA 480V	4A	3RV2711	150 / 220 / 150
		30kA 480V	5A	3RV2711	150 / 220 / 150
3RF2410/3RF3410		65kA 480V	4A	3RV2711	150 / 220 / 150
		30kA 480V	5A	3RV2711	150 / 220 / 150

  
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Reversing Motor Controller High Capacity Short Circuit Current Ratings when protected by combination motor controller:

Type	SCCR	Voltage	Comb.Mtr. Rating	Cntrl. Type	Enclosure
3RF2403/3RF3403	65kA	480V	4A	3RV2.1/2.2	150 / 220 / 150
3RF2405/3RF3405	30kA	480V	5A	3RV2.1/2.2	150 / 220 / 150
3RF2410/3RF3410	30kA	480V	5A	3RV2.1/2.2	150 / 220 / 150

Notes: TD – Time Delay Fuse

3NE – SITOR Fuses, R/C (JFHR2), Special-purpose Fuses, Semiconductor protection, manufactured by Siemens AG, File E167357

CB - Listed Circuit Breaker, manufactured by Siemens AG, File E235044

Motor Controller Short Circuit Ratings in Group Installation

Type	SCCR	Voltage	Rating	Man.Mtr.Cntrl.1)
3RF2405/3RF3405	5kA	480V	4A	3RV2.1/2.2
	5kA	600V	4A	3RV2.1/2.2
	65kA	480V	3.2A	3RV2.1/2.2
3RF2410/3RF3410	30kA	600V	3.2A	3RV2.1/2.2
	5kA	480V	8A	3RV2.1/2.2
3RF2412/3RF3412	5kA	600V	5A	3RV2.1/2.2
	5kA	480V	10A	3RV2.1/2.2
3RF2416/3RF3416	5kA	600V	8A	3RV2.1/2.2
	5kA	480V	10A	3RV2.1/2.2
	5kA	480V	10A	3RV2.1/2.2
	5kA	600V	8A	3RV2.1/2.2



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## Reversing Motor Controllers Short Circuit Ratings in Group Installation

Type	SCCR	Voltage	Rating	Man.Mtr.Cntrl.1)
3RF2403/3RF3403	5kA	480V	4A	3RV2.1/2.2
	65kA	480V	4A	3RV2.1/2.2
3RF2405/3RF3405	5kA	480V	5A	3RV2.1/2.2
	30kA	480V	5A	3RV2.1/2.2
3RF2410/3RF3410	5kA	480V	8A	3RV2.1/2.2

Note 1: These ratings are applicable in group installation for Siemens UL Listed Manual Motor Controllers 3RV2.1 or 3RV2.2 covered in file E47705 in combination with solid state motor controllers or reversing motor controllers type 3RF24 or 3RF34. 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: RK1, RK5, J, G, T, CC or
- Circuit Breaker: 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.

All of the above mentioned enclosures are unventilated

Use of universal overvoltage limiter type 3TX7462-3L manufactured by Siemens (file E44653) is requested for reversing motor controller type 3RF24 or 3RF34. The universal overvoltage limiter has to be placed between phase 1 and phase 3.



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## NOMENCLATURE BREAKDOWN

3RF24 03 - 1 B B 0 4  
I II III IV V VI VII

### I. Basic Type

3RF24 - Solid State Motor controller, three phase  
3RF34 - Solid State Motor controller, three phase, SIRIUS Innovation

### II. Ratings

03 - - Reversing motor controller 3.5 A  
05 - Motor controller 3.6 A Reversing motor controller 5 A  
10 - Motor controller 7 A Reversing motor controller 6.8 A  
12 - Motor controller 8.5 A -  
16 - Motor controller 10 A -

### III. Type of Terminals

-1 - Main Terminal Screw, Aux. Terminal Screw  
-2 - Main Terminal Cage Clamp, Aux. Terminal Cage Clamp  
-4 - Main Terminal Screw, Aux. Terminal Cage Clamp

### IV. Switching Function

B - Instantaneous switching

### V. Number of Controlled Phases

B - two phases controlled, motor controller  
D - two phases controlled, reversing motor controller

### VI. Control Voltage

0 - 24 V dc  
1 - 24 V ac/dc  
2 - 110 V – 230 V ac  
3 - 110 V ac  
4 - 4 up to 30 V dc (TTL)  
5 - 230 V ac

### VII. Rated Voltage

4 - 230 up to 460 V  
6 - 230 up to 600 V, motor controller only

## NOMENCLATURE BREAKDOWN Accessories

3RF3900-0QA88 - Connection Adapter Type  
3RF2900-2TA88 - Control Connector Type



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