

# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20130813 – E143112  
**Report Reference** E143112 - 20071021  
**Issue Date** 2013-August-13

**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 controller, Type 3RW40 followed by 24,  
26, 27, 28, 36, 37, 38, 46 or 47 followed by -1 or -2 followed  
by B or T followed by B followed by 0 or 1, followed by  
4 or 5.  
(See following pages 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  
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:

Accessories, fan kit, type 3RW4928-8VB00, 3RW4947-8VB00.

Link modules, Types 3RA2911-2G, 3RA2921-2G, and 3RA2921-1B

Solid-state motor controller, Type 3RW30 followed by 13, 14, 16, 17, 18, 26, 27, 28, 36, 37, 38, 46 or 47 followed by -1 or -2 followed by B followed by B followed by 0 or 1, followed by 4. Types 3RW301, 3RW302, and 3RW402 may be used together with 3RA2911-2G, 3RA2921-2G, or 3RA2921-1B link module to be connected with 3RV20.

## General:

These devices are solid - state motor controller for use in industrial applications. These devices allow smooth, step-less starting. The 3RW40 devices are provided with an integrated solid-state overload relay (class settings: 10, 15, 20) and have the option of soft stopping and an integral current limiting control during starting.

## Ratings:

3RW40:

3 ph Horsepower at 40°C surrounding air temperature

Type	200/208 V	230/240 V	460/480 V	575/600 V	max FLA
3RW4024	3 hp	3 hp	7.5 hp	10 hp	12.5 A
3RW4026	7.5 hp	7.5 hp	15 hp	20 hp	25.3 A
3RW4027	10 hp	10 hp	20 hp	30 hp	32.2 A
3RW4028	10 hp	10 hp	25 hp	30 hp	38 A
3RW4036	10 hp	15 hp	30 hp	40 hp	45 A
3RW4037	20 hp	20 hp	40 hp	60 hp	63 A
3RW4038	20 hp	25 hp	50 hp	60 hp	72 A
3RW4046	25 hp	30 hp	60 hp	75 hp	80 A
3RW4047	30 hp	40 hp	75 hp	100 hp	106 A



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# CERTIFICATE OF COMPLIANCE

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3 ph Horsepower at 50°C surrounding air temperature

Type	200/208 V	230/240 V	460/480 V	575/600 V	max FLA
3RW4024	3 hp	3 hp	7.5 hp	10 hp	11 A
3RW4026	5 hp	5 hp	15 hp	20 hp	23 A
3RW4027	7.5 hp	7.5 hp	20 hp	25 hp	29 A
3RW4028	10 hp	10 hp	25 hp	30 hp	34 A
3RW4036	10 hp	15 hp	30 hp	40 hp	42 A
3RW4037	15 hp	20 hp	40 hp	50 hp	58 A
3RW4038	20 hp	20 hp	40 hp	60 hp	62.1 A
3RW4046	20 hp	25 hp	50 hp	60 hp	73 A
3RW4047	30 hp	30 hp	75 hp	75 hp	98 A

Control voltage: 24 V ac/dc or 110 V up to 230 V ac/dc  
 Auxiliary Contacts: B300/R300

## 3RW30:

3 ph Horsepower at 40°C surrounding air temperature

Type	200/208 V	230/240 V	460/480 V		max FLA
3RW3013	0.5 hp	0.75 hp	2 hp		3.6 A
3RW3014	1 hp	1.5 hp	3 hp		6.5 A
3RW3016	2 hp	2 hp	5 hp		9.0 A
3RW3017	3 hp	3 hp	7.5 hp		12.5 A
3RW3018	5 hp	5 hp	10 hp		17.6 A
3RW3026	7.5 hp	7.5 hp	15 hp		25.3 A
3RW3027	10 hp	10 hp	20 hp		32.2 A
3RW3028	10 hp	10 hp	25 hp		38 A
3RW3036	10 hp	15 hp	30 hp		45 A
3RW3037	20 hp	20 hp	40 hp		63 A
3RW3038	20 hp	25 hp	50 hp		72 A
3RW3046	25 hp	30 hp	60 hp		80 A
3RW3047	30 hp	40 hp	75 hp		106 A



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3 ph Horsepower at 50°C surrounding air temperature

Type	200/208 V	230/240 V	460/480 V		max FLA
3RW3013	0.5 hp	0.5 hp	1.5 hp		3 A
3RW3014	1 hp	1 hp	3 hp		6 A
3RW3016	2 hp	2 hp	5 hp		8 A
3RW3017	3 hp	3 hp	7.5 hp		12 A
3RW3018	3 hp	3 hp	10 hp		17 A
3RW3026	5 hp	5 hp	15 hp		23 A
3RW3027	7.5 hp	7.5 hp	20 hp		29 A
3RW3028	10 hp	10 hp	25 hp		34 A
3RW3036	10 hp	15 hp	30 hp		42 A
3RW3037	15 hp	20 hp	40 hp		58 A
3RW3038	20 hp	20 hp	40 hp		62.1 A
3RW3046	20 hp	25 hp	50 hp		73 A
3RW3047	30 hp	30 hp	75 hp		98 A

Control voltage: 24 V ac/dc or 110 V up to 230 V ac/dc  
Auxiliary Contact: B300/R300



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Standard Short Circuit Ratings with Fuses (3RW40):

Type No.	Max. Fuse Class K5, RK5, RK1	Max. Fuse Class J	Short Circuit	Voltage
3RW4024	50 A	50 A	5 kA	600 V
3RW4026	100 A	100 A	5 kA	600 V
3RW4027	125 A	125 A	5 kA	600 V
3RW4028	125 A	125 A	5 kA	600 V
3RW4036	175 A	175 A	10 kA	600 V
3RW4037	250 A	250 A	10 kA	600 V
3RW4038	250 A	250 A	10 kA	600 V
3RW4046	450 A <sup>1)</sup>	300 A	10 kA	600 V
3RW4047	450 A <sup>1)</sup>	300 A	10 kA	600 V

1) Special purpose fuse Type 3NE1333-2 manufactured by Siemens covered in File E167357.

High Capacity Short Circuit Ratings with Fuses (3RW40):

Type No.	Max. Fuse Class K5, RK5, RK1	Max. Fuse Class J	Short Circuit	Voltage
3RW4024	50 A	50 A	42 kA	600 V
3RW4024	50 A <sup>1)</sup>	50 A	100 kA	600 V
3RW4026	60 A	100 A	42 kA	600 V
3RW4026	100 A <sup>1)</sup>	100 A	100 kA	600 V
3RW4027	60 A	125 A	42 kA	600 V
3RW4027	100 A <sup>1)</sup>	110 A	100 kA	600 V
3RW4028	60 A	125 A	42 kA	600 V
3RW4028	100 A <sup>1)</sup>	110 A	100 kA	600 V
3RW4036	100 A	175 A	30 kA	600 V
3RW4036	175 A <sup>1)</sup>	175 A	100 kA	600 V
3RW4037	100 A	200 A	30 kA	600 V
3RW4037	200 A <sup>1)</sup>	200 A	100 kA	600 V
3RW4038	100 A	200 A	30 kA	600 V
3RW4038	200 A <sup>1)</sup>	200 A	100 kA	600 V
3RW4046	110 A	200 A	42 kA	600 V
3RW4046	200 A <sup>1)</sup>	200 A	100 kA	600 V
3RW4047	110 A	200 A	42 kA	600 V
3RW4047	200 A <sup>1)</sup>	200 A	100 kA	600 V



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1) RK1-Fuse only  
 Standard Short Circuit Ratings with Circuit Breakers and Combination Motor Controllers(3RW40):

Type No.	Circuit Breaker 3RV27, 3RV28	Comb. Mot. Ctrl. <sup>3)</sup> 3RV201, 3RV202	Man. Mot. Ctrl. 3RV2.1, 3RV2.2	Short Circuit	Voltage
3RW402	22 A	32 A	36 A <sup>1)</sup>	5 kA	480 V
3RW402	12.5 A	12.5 A	25 A <sup>1)</sup>	5 kA	600 V
3RW403	42 A <sup>2)</sup>	-	-	10 kA	600 V
	42 A <sup>3)</sup>	-	-	10 kA	600 V

<sup>2)</sup> Siemens Listed Circuit Breaker Type 3RV17...

<sup>3)</sup> Siemens Listed Circuit Breaker Type 3VL1/HCGX3B150

High Capacity Circuit Ratings with Circuit Breakers and Combination Motor Controllers(3RW40):

Type No.	Circuit Breaker 3RV27, 3RV28	Comb. Mot. Ctrl. <sup>1)</sup> 3RV201, 3RV202	Short Circuit	Voltage
3RW402	15 A	25 A	65 kA	480 V
3RW402	-	32 A	42 kA	480 V
*				
3RW402	22 A	-	50 kA	480 V
3RW402	-		30 kA	600 V
*				
3RW402	12.5 A	-	10 kA	600 V

1) These ratings apply for the solid state motor controller used with or without link modules type 3RA2921-1B, 3RA2911-2G or 3RA2921-2G.  
 The 3RV20 are also evaluated together with solid-state-motor controllers 3RW402 as Combination Motor Controllers Type F.



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Group Installation:

Maximum Short-circuit rating in Group Installation (only in combination with Manual Motor Controller 3RV2)

Type No.	Comb. Mot. Ctrl. 3RV2.1, 3RV2.2	Comb. Mot. Ctrl. 3RV2.23	Short Circuit	Voltage
3RW402	25 A <sup>1)</sup>		65 kA	480 V
3RW402	32 A <sup>1)</sup>		42 kA	480 V
3RW402	36 A <sup>1)</sup>		12 kA	480 V
3RW402	12.5 <sup>2)</sup>	25 A <sup>3)</sup>	30 kA	600 V

1) Branch Circuit Protective Device: 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.

2) Branch Circuit Protective Device for 600V-Ratings: Max. Class J 80A

3) Branch Circuit Protective Device for 600V-Ratings: Max. Class J 150A

For solid-state motor controller, Type 3RW402:

Applicable in an enclosure with minimum overall dimensions of 370 by 190 by 190 mm.

For solid-state motor controller, Type 3RW403:

Applicable in an enclosure with minimum overall dimensions of 450 by 210 by 225 mm.

For solid-state motor controller, Type 3RW404:

Applicable in an enclosure with minimum overall dimensions of 450 by 220 by 235 mm.



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## Standard Short Circuit Ratings 3RW30:

Type No.	Max. Fuse	Max. Fuse	Short Circuit	Voltage
	Class K5, RK5, RK1	Class J		
3RW3013	-	15 A	5 kA	480 V
3RW3014	-	25 A	5 kA	480 V
3RW3016	-	36 A	5 kA	480 V
3RW3017	-	50 A	5 kA	480 V
3RW3018	-	60 A	5 kA	480 V
3RW3026	100 A	100 A	5 kA	480 V
3RW3027	125 A	125 A	5 kA	480 V
3RW3028	125 A	125 A	5 kA	480 V
3RW3036	175 A	175 A	10 kA	480 V
3RW3037	250 A	250 A	10 kA	480 V
3RW3038	250 A	250 A	10 kA	480 V
3RW3046	-	300 A	10 kA	480 V
3RW3047	-	350 A	10 kA	480 V

## High Capacity Short Circuit Ratings 3RW30:

Type No.	Max. Fuse	Max. Fuse	Short Circuit	Voltage
	Class K5, RK5, RK1	Class J		
3RW3013	-	15 A	42 kA	480 V
3RW3014	-	25 A	42 kA	480 V
3RW3016	-	25 A	42 kA	480 V
3RW3017	-	25 A	42 kA	480 V
3RW3018	-	25 A	42 kA	480 V
3RW3026	60 A	100 A	42 kA	480 V
3RW3026	100 A <sup>1</sup>	100 A	100 kA	480 V
3RW3027	60 A	125 A	42 kA	480 V
3RW3027	100 A <sup>1</sup>	110 A	100 kA	480 V
3RW3028	60 A	125 A	42 kA	480 V
3RW3028	100 A <sup>1</sup>	110 A	100 kA	480 V
3RW3036	100 A	175 A	30 kA	480 V
3RW3036	175 A <sup>1</sup>	175 A	100 kA	480 V
3RW3037	100 A	200 A	30 kA	480 V
3RW3037	200 A <sup>1</sup>	200 A	100 kA	480 V
3RW3038	100 A	200 A	30 kA	480 V



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High Capacity Short Circuit Ratings 3RW30 (Cont.):

Type No.	Max. Fuse Class K5, RK5, RK1	Max. Fuse Class J	Short Circuit	Voltage
3RW3038	200 A <sup>1</sup>	200 A	100 kA	480 V
3RW3046	110 A	200 A	42 kA	480 V
3RW3046	200 A <sup>1</sup>	200 A	100 kA	480 V
3RW3047	110 A	200 A	42 kA	480 V
3RW3047	200 A <sup>1</sup>	200 A	100 kA	480 V

1) RK1-Fuse only

Standard Short Circuit Ratings with Circuit Breakers and Combination Motor Controllers(3RW30):

Type No.	Circuit Breaker 3RV27, 3RV28	Comb. Mot. Ctrl. <sup>3)</sup> 3RV201, 3RV202	Man. Mot. Ctrl.	Short Circuit	Voltage
3RW3013, 3RW3014, 3RW3016	8 A	8 A		5 kA	480 V
3RW3017	12.5 A	12.5 A		5 kA	480 V
3RW3018	15 A	16 A		5 kA	480 V
3RW302	22 A	32 A	36 A	5 kA	480 V
	40 A <sup>2)</sup>	-	-	5 kA	480 V
3RW303	max. 70 A <sup>3)</sup>	-	-	10 kA	600 V
3RW303	max. 150 A <sup>4)</sup>	-	-	10 kA	600 V



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High Capacity Circuit Ratings with Circuit Breakers and Combination Motor Controllers(3RW30):

Type No.	Circuit Breaker 3RV27, 3RV28	Comb. Mot. Ctrl. <sup>1)</sup> 3RV201, 3RV202	Short Circuit	Voltage
3RW302	15 A	25 A	65 kA	480 V
3RW302	-	32 A	42 kA	480 V
3RW302	22 A		50 kA	480 V
	40 A <sup>2)</sup>	-	10 kA	480 V

1) These ratings apply for the solid state motor controller used with or without link modules type 3RA2921-1B, 3RA2911-2G or 3RA2921-2G  
 The 3RV20 are also evaluated together with solid-state-motor controllers 3RW301 or 3RW302 as Combination Motor Controllers Type F

2) Siemens Listed Circuit Breaker Type 5SJ43..-7HG42 or -7XX42

3) Siemens Listed Circuit Breaker Type 3RV17...

4) Siemens Listed Circuit Breaker Type 3VL1

Group Installation:

Maximum Short-circuit rating in Group Installation (only in combination with Manual Motor Controller 3RV2)

Type No.	Man. Mot. Ctrl. 3RV2.1, 3RV2.2	Man. Mot. Ctrl. 3RV2.23	Short Circuit	Voltage
3RW302	25 A <sup>1)</sup>	-	65 kA	480 V
3RW302	32 A <sup>1)</sup>	-	42 kA	480 V
3RW302	36 A <sup>1)</sup>	-	12 kA	480 V
3RW302	-	25 A <sup>2)</sup>	30 kA	480 V

1) Branch Circuit Protective Device: The appropriate BCPD need to be determined in accordance with the National Electrical Code, Article 430-53 and the application.



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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.

2) Branch Circuit Protective Device: Max. Class J 150A.

For solid-state motor controller, Type 3RW301:

Applicable in an enclosure with minimum overall dimensions of 200 by 120 by 200 mm.

For solid-state motor controller, Type 3RW302:

Applicable in an enclosure with minimum overall dimensions of 370 by 175 by 195 mm.

For solid-state motor controller, Type 3RW303:

Applicable in an enclosure with minimum overall dimensions of 450 by 220 by 235 mm.

For solid-state motor controller, Type 3RW304:

Applicable in an enclosure with minimum overall dimensions of 450 by 220 by 235 mm.



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## Nomenclature Breakdown:

3RW40 24 -1 B B 0 2  
I II III IV V VI VII

### I - Basic type

3RW40 - Solid-state motor controller with integrated electronic overload relay, low functionality

### II - Size

- 24 - size S0, rated for 480 V and 50°C / 7.5 hp
- 26 - size S0, rated for 480 V and 50°C / 15 hp
- 27 - size S0, rated for 480 V and 50°C / 20 hp
- 28 - size S0, rated for 480 V and 50°C / 25 hp
- 36 - size S2, rated for 480 V and 50°C / 30 hp
- 37 - size S2, rated for 480 V and 50°C / 40 hp
- 38 - size S2, rated for 480 V and 50°C / 40 hp
- 46 - size S3, rated for 480 V and 50°C / 50 hp
- 47 - size S3, rated for 480 V and 50°C / 75 hp

### III - Type of Terminals

- 1 - Screw terminal for control circuit
- 2 - Spring terminal for control circuit or  
Spring terminal for control and main circuit for size S0 only

### IV Phases controlled

- B - 2-phase controlled
- T - 2-phase controlled with thermistor motor protection

### V Bypass-System and additional function

- B - With bypass-contact

### VI Operating Voltage

- 0 - 24 V ac/dc
- 1 - 110 up to 230 V ac/dc

### VII Rated Voltage

- 4 - 200 up to 480 V ac
- 5 - 400 up to 600 V ac

### Accessories

3RW4928-8VB00 or 3RW4947-8VB00 Fan



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Nomenclature Breakdown continued:

3RW30 13 -1 B B 0 4  
I II III IV V VI VII

**I Basic type**

3RW30 - Solid-state motor controller, low functionality

**II Size**

- 13 - size S00, rated for 480 V and 50°C / 1.5 hp
- 14 - size S00, rated for 480 V and 50°C / 3 hp
- 16 - size S00, rated for 480 V and 50°C / 5 hp
- 17 - size S00, rated for 480 V and 50°C / 7.5 hp
- 18 - size S00, rated for 480 V and 50°C / 10 hp
- 26 - size S0, rated for 480 V and 50°C / 15 hp
- 27 - size S0, rated for 480 V and 50°C / 20 hp
- 28 - size S0, rated for 480 V and 50°C / 25 hp
- 36 - size S2, rated for 480 V and 50°C / 30 hp
- 37 - size S2, rated for 480 V and 50°C / 40 hp
- 38 - size S2, rated for 480 V and 50°C / 40 hp
- 46 - size S3, rated for 480 V and 50°C / 50 hp
- 47 - size S3, rated for 480 V and 50°C / 75 hp

**III Type of Terminals**

- 1 - Screw terminal for control circuit
- 2 - Spring terminal for control circuit or Spring terminal for control and main circuit for size S00 and S0 only

**IV Phases controlled**

- B - 2-phase controlled

**V Bypass-System and additional function**

- B - With bypass-contact

**VI Operating Voltage**

- 0 - 24 V ac/dc
- 1 - 110 up to 230 V ac/dc

**VII Rated Voltage**

- 4 - 200 up to 480 V ac

**Accessories**

- 3RA2911-2G: Link modules to connect 3RV2 to 3RW301
- 3RA2921-2G: Link modules to connect 3RV2 to 3RW302 or 3RW402
- 3RA2921-1B: Link modules to connect 3RV2 to 3RW30 or 3RW40



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