

Certificate of Compliance

Certificate Number **20111216-E143112**
Report Reference **E143112-20071021**
Issue Date **2011-DECEMBER-16**

Page 1 of 10



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.

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


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.

*Have been investigated by Underwriters Laboratories 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 UL On-line Certification Directory at [WWW.UL.COM](http://www.ul.com) 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

William R. Carney
Director, North American Certification Programs

Underwriters Laboratories Inc.

Any information and documentation involving UL Mark services are provided on behalf of Underwriters Laboratories Inc. (UL) or any authorized licensee of UL.

For questions, please contact a local UL Customer Service Representative at <http://www.ul.com/global/eng/pages/corporate/contactus>

Certificate of Compliance

Certificate Number **20111216-E143112**
Report Reference **E143112-20071021**
Issue Date **2011-DECEMBER-16**

Page 2 of 10



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

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

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

William R. Carney

Director, North American Certification Programs

Underwriters Laboratories Inc.

Any information and documentation involving UL Mark services are provided on behalf of Underwriters Laboratories Inc. (UL) or any authorized licensee of UL.

For questions, please contact a local UL Customer Service Representative at <http://www.ul.com/global/eng/pages/corporate/contactus>

Certificate of Compliance

Certificate Number **20111216-E143112**
Report Reference **E143112-20071021**
Issue Date **2011-DECEMBER-16**

Page 3 of 10



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

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

William R. Carney

Director, North American Certification Programs

Underwriters Laboratories Inc.

Any information and documentation involving UL Mark services are provided on behalf of Underwriters Laboratories Inc. (UL) or any authorized licensee of UL.

For questions, please contact a local UL Customer Service Representative at <http://www.ul.com/global/eng/pages/corporate/contactus>

Certificate of Compliance

Certificate Number **20111216-E143112**
Report Reference **E143112-20071021**
Issue Date **2011-DECEMBER-16**

Page 4 of 10



Standard Short Circuit Ratings (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 ¹⁾	300 A	10 kA	600 V
3RW4047	450 A ¹⁾	300 A	10 kA	600 V

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

William R. Carney
Director, North American Certification Programs

Underwriters Laboratories Inc.

Any information and documentation involving UL Mark services are provided on behalf of Underwriters Laboratories Inc. (UL) or any authorized licensee of UL.

For questions, please contact a local UL Customer Service Representative at <http://www.ul.com/global/eng/pages/corporate/contactus>

Certificate of Compliance

Certificate Number **20111216-E143112**
Report Reference **E143112-20071021**
Issue Date **2011-DECEMBER-16**

Page 5 of 10



High Capacity Short Circuit Ratings (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 ¹	50 A	100 kA	600 V
3RW4026	60 A	100 A	42 kA	600 V
3RW4026	100 A ¹	100 A	100 kA	600 V
3RW4027	60 A	125 A	42 kA	600 V
3RW4027	100 A ¹	110 A	100 kA	600 V
3RW4028	60 A	125 A	42 kA	600 V
3RW4028	100 A ¹	110 A	100 kA	600 V
3RW4036	100 A	175 A	30 kA	600 V
3RW4036	175 A ¹	175 A	100 kA	600 V
3RW4037	100 A	200 A	30 kA	600 V
3RW4037	200 A ¹	200 A	100 kA	600 V
3RW4038	100 A	200 A	30 kA	600 V
3RW4038	200 A ¹	200 A	100 kA	600 V
3RW4046	110 A	200 A	42 kA	600 V
3RW4046	200 A ¹	200 A	100 kA	600 V
3RW4047	110 A	200 A	42 kA	600 V
3RW4047	200 A ¹	200 A	100 kA	600 V

1) RK1-Fuse only

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.

William R. Carney
Director, North American Certification Programs

Underwriters Laboratories Inc.

Any information and documentation involving UL Mark services are provided on behalf of Underwriters Laboratories Inc. (UL) or any authorized licensee of UL.

For questions, please contact a local UL Customer Service Representative at <http://www.ul.com/global/eng/pages/corporate/contactus>

Certificate of Compliance

Certificate Number **20111216-E143112**
Report Reference **E143112-20071021**
Issue Date **2011-DECEMBER-16**

Page 6 of 10



Standard Short Circuit Ratings 3RW30:

Type No.	Max. Fuse Class K5, RK5, RK1	Max. Fuse Class J	Short Circuit	Voltage
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

William R. Carney
Director, North American Certification Programs

Underwriters Laboratories Inc.

Any information and documentation involving UL Mark services are provided on behalf of Underwriters Laboratories Inc. (UL) or any authorized licensee of UL.

For questions, please contact a local UL Customer Service Representative at <http://www.ul.com/global/eng/pages/corporate/contactus>

Certificate of Compliance

Certificate Number **20111216-E143112**
Report Reference **E143112-20071021**
Issue Date **2011-DECEMBER-16**

Page 7 of 10



High Capacity Short Circuit Ratings 3RW30:

Type No.	Max. Fuse Class K5, RK5, RK1	Max. Fuse Class J	Short Circuit	Voltage
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 ¹	100 A	100 kA	480 V
3RW3027	60 A	125 A	42 kA	480 V
3RW3027	100 A ¹	110 A	100 kA	480 V
3RW3028	60 A	125 A	42 kA	480 V
3RW3028	100 A ¹	110 A	100 kA	480 V
3RW3036	100 A	175 A	30 kA	480 V
3RW3036	175 A ¹	175 A	100 kA	480 V
3RW3037	100 A	200 A	30 kA	480 V
3RW3037	200 A ¹	200 A	100 kA	480 V
3RW3038	100 A	200 A	30 kA	480 V
3RW3038	200 A ¹	200 A	100 kA	480 V
3RW3046	110 A	200 A	42 kA	480 V
3RW3046	200 A ¹	200 A	100 kA	480 V
3RW3047	110 A	200 A	42 kA	480 V
3RW3047	200 A ¹	200 A	100 kA	480 V

1) RK1-Fuse only

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.

William R. Carney
Director, North American Certification Programs

Underwriters Laboratories Inc.

Any information and documentation involving UL Mark services are provided on behalf of Underwriters Laboratories Inc. (UL) or any authorized licensee of UL.

For questions, please contact a local UL Customer Service Representative at <http://www.ul.com/global/eng/pages/corporate/contactus>

Certificate of Compliance

Certificate Number **20111216-E143112**
Report Reference **E143112-20071021**
Issue Date **2011-DECEMBER-16**

Page 8 of 10



NOMENCLATURE:

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

William R. Carney
Director, North American Certification Programs

Underwriters Laboratories Inc.

Any information and documentation involving UL Mark services are provided on behalf of Underwriters Laboratories Inc. (UL) or any authorized licensee of UL.

For questions, please contact a local UL Customer Service Representative at <http://www.ul.com/global/eng/pages/corporate/contactus>

Certificate of Compliance

Certificate Number **20111216-E143112**
Report Reference **E143112-20071021**
Issue Date **2011-DECEMBER-16**

Page 9 of 10



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

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 S0, rated for 480 V and 50°C / 1.5 hp
- 14 - size S0, rated for 480 V and 50°C / 3 hp
- 16 - size S0, rated for 480 V and 50°C / 5 hp
- 17 - size S0, rated for 480 V and 50°C / 7.5 hp
- 18 - size S0, 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

William R. Carney

Director, North American Certification Programs

Underwriters Laboratories Inc.

Any information and documentation involving UL Mark services are provided on behalf of Underwriters Laboratories Inc. (UL) or any authorized licensee of UL.

For questions, please contact a local UL Customer Service Representative at <http://www.ul.com/global/eng/pages/corporate/contactus>

Certificate of Compliance

Certificate Number **20111216-E143112**
Report Reference **E143112-20071021**
Issue Date **2011-DECEMBER-16**

Page 10 of 10



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

William R. Carney
Director, North American Certification Programs

Underwriters Laboratories Inc.

Any information and documentation involving UL Mark services are provided on behalf of Underwriters Laboratories Inc. (UL) or any authorized licensee of UL.

For questions, please contact a local UL Customer Service Representative at <http://www.ul.com/global/eng/pages/corporate/contactus>