CERTIFICATE OF COMPLIANCE

Certificate Number	20160208 - E47705
Report Reference	E47705-19970829
Issue Date	2016-FEBRUARY-08
Issued to:	SIEMENS AG DF CP R&D VC 2 WERNER-VON-SIEMENS-STRASSE 48 92220 AMBERG GERMANY
This is to certify that representative samples of	MOTOR CONTROLLERS, MANUAL (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," and ANSI/UL 60947-4-1, "Low-Voltage Switchgear and Controlgear - Part 4-1: Contactors and Motor-Starters - Electromechanical Contactors and Motor-Starters." CAN/CSA-C22.2 No. 60947-1 (2013), "Low-Voltage Switchgear and Controlgear - Part 1: General Rules," and CAN/CSA-C22.2 No. 60947-4-1 (2014), "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.

Bruce Mahrenholz, Director North American Certification Program

UL LLC

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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.

Products Covered:

USL, CNL - Type Nos. 3RV1021, 3RV1121, 3RV1321 or 3RV1421, followed by combination of 0, 1 or 4 and a letter A through K, followed by A or C, followed by 1 or 3. May be followed by additional numbers and letters for manufacturers use.

General:

These devices are open type 3-pole manual motor controllers for starting and stopping motors which may be connected directly across the line. They are adjusted over a small range as indicated in the setting range table. They are provided with integral ambient compensated, non replaceable thermal trip features and are suitable for providing overload protection and motor disconnect. The trip current is 125 percent of the FLA shown on dial. Line or load side of the main terminals may be used in reverse also.

Type 3RV1321 - ... is identical to the standard series device but thermal overload trip is out of function.

Type 3RV1121-... is identical to the standard series device but with no motor overload function. The internal overload tripping system does not trip the controller, however it trips the attached trip module for indication to remote panels.

Type 3RV1421 - ... is identical to the standard series device but instantaneous tripping is adjusted to 19 x Ie.

These devices may be provided with certified accessories of Type 3RV19..including auxiliary switches, door coupling rotary mechanism, tripping units, bus bar assembly and short circuit indicators.

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Ratings:

General Purpose: 600 V AC, (See Nomenclature Breakdown for Individual Ampere Rating)

FLA Ratings: 600 V, (See Nomenclature Breakdown for individual FLA ratings)

Pilot Duty rating for 3RV1121 trip module outputs 1 NO + 1 NC: C600, R300 opposite polarity.

These devices are suitable for use on a circuit capable of delivering not more than 1,000 rms symmetrical amperes up to setting range - 1B, 600 V maximum and width - 1C and higher 5,000 rms symmetrical amperes, 600 V maximum.

HIC Short-Circuit Ratings:
480 V, 3 phase, 65,000 rms sym. amperes
600 V, 3 phase, 30,000 rms sym. Amperes for ratings 0.11 up to 12.5 A
600 V, 3 phase, 10,000 rms sym. Amperes for ratings 11 up to 25 A

Maximum Short-circuit rating in Group Installations:
480 V, 3 phase, 65,000 rms sym. amperes
600 V, 3 phase, 30,000 rms sym. Amperes for ratings 0.11 up to 12.5 A
600 V, 3 phase, 10,000 rms sym. Amperes for ratings 11 up to 25 A

These devices were tested for group installation use at the above levels without any upstream branch circuit device.

Enclosure size: 11-1/2 by 11-1/2 by 6 inches metal.

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
Circuit Breakers: Listed Siemens type, with a marked short-circuit rating equal or larger than the available short-circuit current rating.

All devices except suffix 4A, 4B, 4C, and 4D are suitable for tap conductor protection in group applications and/or over current protection for control transformers, 600Y/347 V ac maximum.

All devices except with suffix 4D are suitable for tap conductor protection in group applications and/or over current protection for control transformers in group applications, 240V and 480Y/277 V ac maximum.

These devices are suitable to provide over current protection for control transformers.

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NOMENCLATURE BREAKDOWN:

3RV1021-	1A	A	1	8
I	II	III	IV	V

I. Basic Type Size S0

3RV1021 - 3 main contacts with overload and short-circuit protection, instantaneous tripping 12 x J_e

3RV1121 – 3 main contacts with short-circuit protection, overload tripping 12 x 1_e is indicated by an attached tripping module.

3RV1321 - 3 main contacts with short-circuit protection only

3RV1421 - 3 main contacts with overload and short-circuit protection, instantaneous tripping 19 x J_e

II. Setting Ranges

Suffix	From	to (A)	max. Fuse or CB*
0A	0.11	0.16	6 A
0B	0.14	0.2	6 A
0C	0.18	0.25	6 A
0D	0.22	0.32	6 A
0E	0.28	0.4	6 A
0F	0.35	0.5	6 A
0G	0.45	0.63	6 A
0H	0.55	0.8	6 A
0J	0.7	1	6 A
0K	0.9	1.25	6 A
1A	1.1	1.6	6 A
1B	1.4	2	6 A
1C	1.8	2.5	10 A
1D	2.2	3.2	10 A
1E	2.8	4	15 A
1F	3.5	5	20 A
1G	4.5	6.3	25 A
1H	5.5	8	30 A
1J	7	10	40 A
1K	9	12.5	50 A
4A	11	16	60 A
4B	14	20	80 A
4C	17	22	100 A
4D	20	25	100 A

When used as manual motor starter but not in group installation applications

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III. Tripping Class
- A setting ranges with instantaneous tripping and overload tripping Class 10.
- C with instantaneous tripping only (without overload tripping)

IV. Type of Terminals
- 1 Screw Terminal
- 3 main terminal have screw terminals auxiliary contact if provided have cage clamp terminals

V. Auxiliary Switches and Tripping Units
(Combinations with certified accessories Type 3RV19...)
- 0 without
- 1 1NO + 1NC, side mounted
- 2 2NO, side mounted
- 3 2NC, side mounted
- 4 1NO/NC Changeover, top mounted
- 5 1NO + 1NC, top mounted
- 8 code No. for further following suffixes under V.

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