Individual Certificate of Compliance

Certificate Number

E31519

Report Reference

E31519 - 20000821

Issue date

2000-08-21

Issued to:

Siemens AG

SI EP EMS R&D T&A 1, Werner-von-Siemens-Strasse 48, Amberg, 92224, Germany

This certificate confirms that representative samples of:

- **NLDX - Motor Controllers, Magnetic**
- **NLDX7 - Motor Controllers, Magnetic Certified for Canada**

(See following page for additional information)

Have been evaluated by UL LLC in accordance with Standard(s) for Safety:

- **UL 60947-4-1**
- **UL 60947-1**
- **CSA C22.2 No. 60947-4-1:22**
- **CSA C22.2 No. 60947-1:22**

Additional Information:
See UL Product iQ® at https://iq.ulprospector.com for additional information.

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.

This iCoC may only include partial UL Certification information. For full certification information, please reach out to the component manufacturer directly.

David Piecuch
UL Mark Certification Program Owner

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Generation Date: 2026-06-30
Data Updated: 2026-05-28
Form-ULID-019496-ver 1.0
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PRODUCT COVERED :

USL, CNL - Series SIRIUS SIZE6, Type 3RT10 or 3RT14 followed by 54, 55 or 56 followed by -1, -2, -3, -6, -7, or -8 followed by A, B, C, L, N, P, Q, S or X followed by a character and a number followed by 0, 4, 5, 6 or 8, may be followed by Suffix Letters and/or numbers.

Accessories: Coil Assemblies, Type 3RT1955-5A, -5B, -5C, -5N, -5S, or -5X followed by a character and a number, followed by 1 or 2, may be followed by suffix letters and/or numbers.

Terminal Cover, Type 3RT1956-4EA followed by 1, 2 or 3.

Terminal Kit, Type 3RT1955-4G or 3RT1956-4G.

GENERAL:

These devices are open types 3 pole air breaking contactors for use in industrial applications.

ENGINEERING CONSIDERATIONS (NOT FOR UL REPRESENTATIVE USE):

CNL - Products designated CNR have been investigated using requirements contained in the Canadian Standard referenced in the Test Record.

USL – Products designated USR have been investigated using requirements contained in the UL Standard referenced in the Test Record.

Note: CNL = Canadian National Standards - Listed.

USL = United States Standards - Listed.

RATINGS:

Horsepower 3RT1054

Voltage	1-ph	3-ph	FLA	LRA
200/208 V	25 hp	40 hp	120 A	948 A
230/240 V	25 hp	50 hp	130 A	1030 A
460/480 V	50 hp	100 hp	124 A	937 A

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Voltage	1-ph	3-ph	FLA	LRA
575/600 V	50 hp	125 hp	125 A	936 A

Horsepower 3RT1055

Voltage	1-ph	3-ph	FLA	LRA
200/208 V	30 hp	50 hp	150 A	1185 A
230/240 V	30 hp	60 hp	154 A	1236 A
460/480 V	50 hp	125 hp	156 A	1171 A
575/600 V	50 hp	150 hp	144 A	1124 A

Horsepower 3RT1056

Voltage	1-ph	3-ph	FLA	LRA
200/208 V	30 hp	60 hp	177 A	1421 A
230/240 V	30 hp	75 hp	192 A	1545 A
460/480 V	50 hp	150 hp	180 A	1405 A
575/600 V	50 hp	200 hp	192 A	1498 A

Horsepower 3RT1054, 3RT1055 (Elevator Applications)

Voltage	3-ph	FLA	LRA
110/120 V	15 hp	84 A	464 A
200/208 V	30 hp	92 A	500 A
230/240 V	40 hp	104 A	580 A
460/480 V	75 hp	96 A	543 A
575/600 V	100 hp	99 A	580 A

Horsepower 3RT1056 (Elevator Applications)

Voltage	3-ph	FLA	LRA
110/120 V	25 hp	136 A	730 A

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Voltage	3-ph	FLA	LRA
200/208 V	50 hp	150 A	834 A
230/240 V	60 hp	154 A	870 A
460/480 V	125 hp	156 A	908 A
575/600 V	150 hp	144 A	868 A

Horsepower 3RT1456

Voltage	3-ph	FLA	LRA
230/240 V	40 hp	104 A	1450 A
460/480 V	75 hp	96 A	725 A
575/600 V	100 hp	99 A	580 A

Main contacts:

- Type 3RT1054: 600 V AC, 140 A General Use

- Type 3RT1055: 600 V AC, 195 A General Use

- Type 3RT1056: 600 V AC, 195 A General Use

- Type 3RT1456: AC - Resistance, 600 V AC, 210 A

AC – General Use, 600 V AC, 210 A

Hermetic Refrigeration Compressor Motor/AC-8a 30,000 cycles

3RT1056 192 FLA / 1160 LRA / max. 600 V ac

Auxiliary contacts: Auxiliary contact blocks type 3RH19 are top or side mounted.

Sec. 3

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Electric Heating: Type 3RT1056 – 600 V ac, 200 A, 250,000 c, 3 ph

Ballast: Type 3RT1056 – 600 V ac, 200 A, 3 ph

Tungsten: Type 3RT1056 – 600 V ac, 200 A, 3 ph

Short Circuit Ratings:

Type No.	Max. Fuse	Max. CB TM 1	Max. CB I.T. 2	Max. ETU 3	Current	Voltage
3RT1054	450 A	350 A	250 A	250 A	10 kA	600 V
3RT1055	500 A	500 A	400 A	250 A	10 kA	600 V
3RT1056	500 A	500 A	400 A	250 A	10 kA	600 V
3RT1456	400 A	-	-	-	10 kA	600 V

1 Note: UL Listed inverse time circuit breakers

2 Note: UL Recognized instantaneous trip circuit breakers manufactured by Siemens, Type FX063H250 for 250 Amps and JXD632400 for 400 Amps.

3 Note: UL Listed Circuit breaker with electronic trip unit (ETU)

Model 3RT1056 may be marked: “May Replace NEMA Size 4 Contactor”, or equivalent.

High Capacity Short Circuit Ratings:

Type No.	Max. Fuse RK5, RK1, K5	Max. Fuse RK5, RK1, K5	Max. Fuse RK5, RK1, K5	CB TM	CB TM	CB TM	CB I.T.	CB I.T.	CB I.T.
3RT1054	400 A	480 V	100 kA	175 A	480 V	100 kA	150 A	480 V	100 kA

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Type No.	Max. Fuse RK5, RK1, K5	Max. Fuse RK5, RK1, K5	Max. Fuse RK5, RK1, K5	CB TM	CB TM	CB TM	CB I.T.	CB I.T.	CB I.T.
	400 A	600 V	100 kA	175 A	600 V	25 kA	150 A	600 V	25 kA
3RT1055	400 A	480 V	100 kA	200 A	480 V	100 Ka	200 A	480 V	100 kA
	400 A	600 V	100 kA	200 A	600 V	25 kA	200 A	600 V	25 kA
3RT1056	400 A	480 V	100 kA	250 A	480 V	100 kA	250 A	480 V	100 kA
	400 A	600 V	100 kA	250 A	600 V	25 kA	250 A	600 V	25 v
3RT1456	400 A	480 V	65 kA	-	-	-	-	-	-

Type No.	Max. Fuse J	Voltage	Current
3RT1054	600 A	600 V	100 kA
3RT1055	600 A	600 V	100 kA
3RT1056	600 A	600 V	100 kA
3RT1456	600 A	480 V	65 kA

Type No.	CB 3VL[2]	Current	Voltage
3RT105.	max. 250 A	25kA	600 V
3RT105.	max. 250 A	65kA	480 V

2 Note: UL Listed Circuit Breaker with Electronic Trip Unit (CG, DG, FG Frame).

Type No.	Max. CB 3VA51 [1]	Max. CB 3VA51 [1]	Max. CB 3VA51 [1]	Current	Voltage
	S	M	H		
3RT105	125 A			14 kA	600 V
3RT105		125 A		18 kA	600 V
3RT105			125 A	25 kA	600 V
3RT105	125 A			25 kA	480 V
3RT105		125 A		35 kA	480 V

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Type No.	Max. CB 3VA51 [1]	Max. CB 3VA51 [1]	Max. CB 3VA51 [1]	Current	Voltage
3RT105			125 A	65 kA	480 V

	Max. CB 3VA52 [1]	Max. CB 3VA52 [1]	Max. CB 3VA61/62 [1]	Max. CB 3VA61/62 [1]	Max. CB 3VA61/62 [1]	Current	Voltage
	M	H, C	M	H	C, L, E		
3RT105	250 A	-	250 A	-	-	18 kA	600 V
3RT105	-	250 A	-	-	250 A	25 kA	600 V
3RT105	-	-	-	250 A	-	22 kA	600 V
3RT105	250 A	-	250 A	-	-	35 kA	480 V
3RT105	-	250 A	-	250 A	250 A	65 kA	480 V

1 Note: Siemens UL Listed Circuit Breaker 3VA

These devices are intended to be used in combination with UL listed overload relays type 3RB2 or 3UF7.

NOMENCLATURE BREAKDOWN

3RT10	54	-	1	A	..	0	-	....
I	II		III	IV	V	VI		VII

I. Basic Type - Contactor SIRIUS Size S6

3RT10 - 3 main contacts + 0 to 8 auxiliary contacts (max. 4 NC contacts), Motor Load

3RT14 - 3 main contacts + 0 to 8 auxiliary contacts, Resistive Load

II. Size S6 / 3RT10 (Horsepower rated)

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54 - rated for 460/600 V, 100/125 hp / 3 ph

55 - rated for 460/600 V, 125/150 hp / 3 ph

56 - rated for 460/600 V, 150/200 hp / 3 ph

Size S6 / 3RT14 (Resistive Loads)

56 - rated for 600 V ac, 210 A, AC Resistance

III. Type of Terminals

-1, -7 - With assembled Terminal Kit 3RT1955-4G or 3RT1956-4G, screw type for control terminals

-2 - Without assembled Terminal Kit, cage clamp spring type terminals for control terminals

-3 - With assembled Terminal Kit 3RT1955-4G or 3RT1956-4G, spring

Type terminals for control terminals

-6 - Without assembled Terminal Kit, screw type for the control

Terminals

-8 - customer specific type in combination with VII

IV. Operating system

A - ac/dc operating system with integrated varistor, Standard type

B - ac/dc operating system with assembled RC element

C - ac operating system with integrated varistor, Standard type

L - Device without coil

N - ac/dc electronic operating system, provided with an input

suitable for direct control of a PLC or for conventional control,

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programmable

S - ac/dc electronic operating system, provided with an input

suitable for direct control of a PLC

P - same as N plus remaining life time indication, the electronic circuit is assembled in a separate housing side mounted

Q - same as P except the PLC control circuit is replaced by a

AS-Interface control circuit

X - dc electronic operating system, provided with an input

suitable for direct control of a PLC or for conventional control,

programmable

V. Operating voltage

.. 23 V through 600 V ac/dc for standard coil control

21 V through 277 V ac/dc for electronic coil control

24 V, 72 V or 110 V dc for electronic coil control

VI. Auxiliary Contact Arrangements

0 non auxiliary contact

4 2 NO and 2 NC, top mounted, according to EN 50012

5 1 NO and 1 NC, side mounted, according to EN 50012

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6 2 NO and 2 NC, side mounted, according to EN 50012

8 manufacturer's identification

VII. .... (Optional) Suffix Letters and/or numbers specifies commercial variations

3RT1955	-	5A	..	1	-3K
I		II	III	IV	V

I. Basic Type - Accessories

3RT1955 - Coil assemblies

II. Coil Control

- 5A - Standard coil control ac/dc operating system with integrated varistor, Standard type

- 5B - Electronic coil control ac/dc operating system with assembled RC element

- 5C - Standard coil control ac operating system with integrated varistor, Standard Type

- 5N - Standard coil control with assembled EMC unit ac/dc electronic operating system, provided with an input suitable for direct control of a PLC or for conventional control, programmable

- 5S - ac/dc electronic operating system, provided with an input suitable for direct control of a PLC

- 5X - Electronic coil control dc dc electronic operating system, provided with an input suitable for direct control of a PLC or for conventional control, programmable

III. Operating voltage

.. 23 V through 600 V ac/dc for standard coil control

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21 V through 277 V ac/dc for electronic coil control

24 V through 110 V dc for electronic coil control

IV. Type of Terminals

1 Screw Terminals

2 Spring Terminals

V. (Optional) Suffix letters and/or numbers: specifies commercial variations

3RT1956-4EA	1
I	II

I. Basic Type - Accessories

3RT1956-4EA - Terminal cover

II. Design

1 - Standard terminal cover

2 - Short form for devices with Terminal Kits

3 - Short form for devices without Terminal Kits

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