



Certificate of Compliance

Certificate: 70088678

Master Contract: 165071

Project: 80088596

Date Issued: 2021-07-16

Issued To: Siemens AG
SI EP R&D TC 1
Werner-von-Siemens-Strasse 48
Amberg, Bavaria, 92224
Germany

The products listed below are eligible to bear the CSA Mark shown

Issued by: J.-C. Chow
J.-C. Chow



PRODUCTS

CLASS 3211 04 - INDUSTRIAL CONTROL EQUIPMENT - Motor Controllers - Magnetic

CLASS 3211 24 - INDUSTRIAL CONTROL EQUIPMENT - Motor Controllers - Magnetic

Contactors, open type, 3-pole, Series 3RT2045, 3RT2046, 3RT2047, 3RT2446, 3RT2448, 3RT2645, 3RT2646, LEN00E003...C and 4-pole, Series 3RT2344, 3RT2346, 3RT2348, 3RT2544, 3RT2545 with ratings:

Type 3RT2045 (Note 2):

Voltage	1-phase	3-phase	FLA / LRA
110-120 Vac	7.5 hp	-	80 / 480
200/208 Vac	10 hp	25 hp	78.2 / 646
220-240 Vac	15 hp	30 hp	80 / 674
440-480 Vac	-	60 hp	77 / 618
550-600 Vac	-	60 hp	62 / 618



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Type 3RT2046 (Note 2):

Voltage	1-phase	3-phase	FLA / LRA
110-120 Vac	10 hp	-	100 / 600
200/208 Vac	10 hp	30 hp	92 / 776
220-240 Vac	20 hp	30 hp	88 / 674
440-480 Vac	-	75 hp	96 / 773
550-600 Vac	-	75 hp	77 / 749

Type 3RT2047 (Note 2):

Voltage	1-phase	3-phase	FLA / LRA
110-120 Vac	10 hp	-	100 / 600
200/208 Vac	10 hp	30 hp	92 / 776
220-240 Vac	20 hp	40 hp	104 / 674
440-480 Vac	-	75 hp	96 / 773
550-600 Vac	-	100 hp	99 / 749

Types 3RT2344, 3RT2346, 3RT2348 (Note 2):

Voltage	1-phase	3-phase	FLA / LRA
110-120 Vac	-	7.5 hp	44 / 254
200/208 Vac	-	15 hp	48.3 / 267
220-240 Vac	-	15 hp	42 / 232
440-480 Vac	-	40 hp	52 / 290
550-600 Vac	-	50 hp	52 / 290

Types 3RT2446, 3RT2448 (Note 2):

Voltage	1-phase	3-phase	FLA / LRA
110-120 Vac	-	7.5 hp	44 / 254
200/208 Vac	-	15 hp	48.3 / 267
220-240 Vac	-	15 hp	42 / 337
440-480 Vac	-	40 hp	52 / 337
550-600 Vac	-	50 hp	52 / 337

Type 3RT2346-.....4AA0 (Note 2):

Voltage	1-phase	3-phase	FLA / LRA
110-120 Vac	10 hp	-	100 / 600
200/208 Vac	-	30 hp	92 / 500
220-240 Vac	20 hp	30 hp	88 / 528
440-480 Vac	-	75 hp	96 / 543
550-600 Vac	-	100 hp	99 / 580

Type 3RT2544 (Note 2):

Voltage	3-phase	FLA	LRA
110-120 Vac	-	-	-
200/208 Vac	NO: 10 hp; NC: 7.5 hp	NO: 32.2; NC: 25.3	NO: 186.3; NC: 146
220-240 Vac	NO: 15 hp; NC: 10 hp	NO: 42; NC: 28	NO: 232; NC: 162
440-480 Vac	NO: 30 hp; NC: 25 hp	NO: 40; NC: 34	NO: 218; NC: 183



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Type 3RT2545 (Note 2):

Voltage	3-phase	FLA	LRA
110-120 Vac	-	-	-
200/208 Vac	NO: 15 hp; NC: 10 hp	NO: 48.3; NC: 32.2	NO: 267; NC: 186.3
220-240 Vac	NO: 20 hp; NC: 15 hp	NO: 54; NC: 42	NO: 290; NC: 232
440-480 Vac	NO: 40 hp; NC: 30 hp	NO: 52; NC: 40	NO: 290; NC: 218

Specific duty ratings: Capacitor switching (6000 cycles), max operations per hour

Type 3RT2645:

Voltage	1-phase	3-phase	Current	Max operations per hour
110-120 Vac	12 kVar	20 kVar	108 A	200
200/208 Vac	22 kVar	37 kVar	108 A	200
230/240 Vac	24 kVar	41 kVar	108 A	80
460/480 Vac	50 kVar	82 kVar	108 A	53
575/600 Vac	60 kVar	103 kVar	108 A	30

Type 3RT2646:

Voltage	1-phase	3-phase	Current	Max Operations per hour
110-120 Vac	14 kVar	25 kVar	131.2 A	200
200/208 Vac	26 kVar	45 kVar	131.2 A	150
230/240 Vac	29 kVar	50 kVar	131.2 A	60
460/480 Vac	60 kVar	100 kVar	131.2 A	40
575/600 Vac	72 kVar	125 kVar	131.2 A	20

Main contacts, AC general use (AC-1), AC Resistance, max 600 V:

Type 3RT2045: 105 A

Type 3RT2046: 115 A

Type 3RT2047: 125 A

Type 3RT2344: 110 A

Types 3RT2346, 3RT2446: 120 A

Types 3RT2348, 3RT2448: 140 A

Type 3RT2346-.....4AA0: 100 A

Main contacts, AC general use (AC-1), AC Resistance, max 480 V:

Type 3RT2544: 42A (N0) / 34A (NC)

Type 3RT2545: 54A (N0) / 42A (NC)

Main contacts, DC resistance, max 120 V, 1-phase, 2-pole:

Type 3RT2044: 68 A

Type 3RT2045: 80 A

Type 3RT2046: 92 A

Type 3RT2047: 104 A

Main contacts, AC electric heating control (250000 c.), max 600 V, 3-ph, 3-pole; max 347 V, 1-ph, 1- or 2-pole:

Type 3RT2044: 90 A



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Type 3RT2045: 105 A
Type 3RT2046: 115 A
Type 3RT2047: 125 A
Type 3RT2344: 110 A
Types 3RT2346, 3RT2446: 120 A
Types 3RT2348, 3RT2448: 140 A

Main contacts, AC incandescent lamp control (AC-5b), max 600 V, 3-ph, 3-pole; max 347 V, 1-ph, 1- or 2-pole:
Type 3RT2044: 65 A
Type 3RT2045: 80 A
Type 3RT2046: 95 A
Type 3RT2047: 110 A

Main contacts, AC electric discharge lamp control (AC-5a), max 600 V, 3-ph, 3-pole; max 347 V; 1-ph, 1- or 2-pole:
Type 3RT2044: 100 A
Type 3RT2045: 100 A
Type 3RT2046: 110 A
Type 3RT2047: 125 A

Main contacts, AC refrigeration control (hermetic compressor, AC-8a), 30.000 cycles, max 600 V:
Type 3RT2045: 80 FLA / 480 LRA
Types 3RT2046, 3RT2047: 99 FLA / 594 LRA

Rating for Type LEN00E003...C: max (FLA) 62A, (LRA) 618A, 60 hp at 600V, 3 ph.
Main contacts, AC general use (AC-1), AC Resistance, rated 347 V; 1-ph, 1- pole and max 600 V, 1 or 3-ph, 2 or 3-pole; at max current of 100A.
Main contacts, AC incandescent lamp control (AC-5b), rated 277V, 1-ph, 1- pole and max 480 V, 1 or 3-ph, 2 or 3-pole; at max current of 100A.
Main contacts, AC electric discharge lamp control (AC-5a), rated 347 V; 1-ph, 1- pole and max 600 V, 1 or 3-ph, 2 or 3-pole; at max current of 100A.

Auxiliary contacts, for all Types:
A600, P600; 240 Vac, 6 A, or 24 Vdc, 10 A each pole (pilot duty)
600 Vac, 10 A, general use (AC-1); 24 Vdc, 10 A, general use (DC-1)

Coil rating:
24 through 600 Vac
12 through 250 Vdc
20 through 280 Vac/dc

Standard short-circuit rating with Max Fuse Class RK5, K5, RK1, J or L:

Type	Short-circuit	Fuse
3RT2045	10 kA, 600 V	300 A
3RT2046	10 kA, 600 V	350 A



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3RT2047	10 kA, 600 V	350 A
3RT2344	5 kA, 600 V	300 A
3RT2346	5 kA, 600 V	300 A
3RT2348	5 kA, 600 V	300 A
3RT2346-.....-4AA0	10 kA, 600 V	300 A
3RT2446	5 kA, 600 V	300 A
3RT2448	5 kA, 600 V	300 A
3RT2544	5 kA, 480 V	150 A
3RT2545	5 kA, 480 V	200 A
3RT264.	10 kA, 600 V	300 A

Standard short-circuit rating with Max MMC/CMC Type 3RV2.4:

Type	Short-circuit	MMC/CMC
3RT2045	10 kA, 600 V	100 A
3RT2046	10 kA, 600 V	100 A
3RT2047	10 kA, 600 V	100 A
3RT2446	5 kA, 600 V	100 A
3RT2448	5 kA, 600 V	100 A

Standard short-circuit rating with Max Circuit Breaker Type 3VA51, 3VA52 or 3RV2742:

Type	Short circuit	3VA51	3VA52	3RV2742
3RT204, 3RT244	10 kA, 600 V	125 A	250 A	70 A
3RT254	5 kA, 600V	125 A	-	70 A
3RT2346-.....-4AA0, 3RT234	10 kA, 600 V	125 A	-	70 A

High-fault currents rating with Max Fuse Class J or L:

Type	Short-circuit	Fuse
3RT2045	100 kA, 600 V	300 A
3RT2046	100 kA, 600 V	400 A
3RT2047	100 kA, 600 V	400 A
3RT2344	100 kA, 600 V	300 A
3RT2346	100 kA, 600 V	300 A
3RT2348	100 kA, 600 V	300 A
3RT2346-.....-4AA0	100 kA, 600 V	300 A
3RT2446	100 kA, 600 V	300 A
3RT2448	100 kA, 600 V	300 A
3RT2544	100 kA, 600 V	150 A
3RT2545	100 kA, 600 V	200 A

High-fault currents rating, with Max MMC/CMC Type 3RV2.4:

Type	Short-circuit	MMC/CMC
3RT204, 3RT244	65 kA, 480 V	100 A
3RT204, 3RT244	30 kA, 600 V	75 A
3RT204, 3RT244	30 kA, 600 V	*100 A



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*Only when protected with max fuse 300A Class J or L.

High-fault currents rating with Max Circuit Breaker Type 3VA51, 3VA52 or 3RV2742:

Type	Short-circuit	3VA51	3VA52	3RV2742
3RT204, 3RT244	65 kA, 480 V	125 A	-	70 A
3RT254	65 kA, 480 V	125 A	-	70 A
3RT2346-.....-4AA0, 3RT234	65 kA, 480 V	125 A	-	70 A
3RT204, 3RT244	100 kA, 480 V	-	250 A	-
3RT204, 3RT244	35 kA, 600 V	-	250 A	-
3RT204, 3RT244	20 kA, 600 V	-	-	60 A

High-fault currents rating with Max Circuit Breaker Type ED63B, FD63B or LGG:

Type	Short-circuit	FD63B	LGG
3RT204	65 kA, 480 V	200 A	125A
3RT244	25 kA, 600V	200 A	-
3RT254	65 kA, 480 V	125 A	125A
3RT2346-.....-4AA0	25 kA, 600V	125 A	-

High-fault currents rating in combination with thermal overload relays (O/L) type 3RU2:

Contactors	Short-circuit	Type of O/L	O/L Current	ED63B or FD63B
3RT204	65 kA, 480V	3RU2146-4D	18 - 25 A	50 A
	65 kA, 480V	3RU2146-4E	22 32 A	125 A
	65 kA, 480V	3RU2146-4F	28 - 40 A	150 A
	65 kA, 480V	3RU2146-4H	36 - 50 A	200 A
	65 kA, 480V	3RU2146-4J	45 - 63 A	200 A
	65 kA, 480V	3RU2146-4K	57 - 75 A	200 A
	65 kA, 480V	3RU2146-4L	70 - 90 A	200 A
	65 kA, 480V	3RU2146-4M	80 - 100 A	200 A
3RT204	25 kA, 600V	3RU2146-4D	18 - 25 A	50 A
	25 kA, 600V	3RU2146-4E	22 32 A	125 A
	25 kA, 600V	3RU2146-4F	28 - 40 A	150 A
	25 kA, 600V	3RU2146-4H	36 - 50 A	200 A
	25 kA, 600V	3RU2146-4J	45 - 63 A	200 A
	25 kA, 600V	3RU2146-4K	57 - 75 A	200 A
	25 kA, 600V	3RU2146-4L	70 - 90 A	200 A
	25 kA, 600V	3RU2146-4M	80 - 100 A	200 A

High-fault currents rating in combination with electronic overload relays type 3RB3...4 or 3RR2...4

Contactors	Short-circuit	Type of O/L	FD63B
3RT204	65 kA, 480V	3RR2...4	200A
	25 kA, 600V	3RB3...4	200A

Standard short-circuit rating with Max Fuse Class RK5, K5, RK1, J or L:

Type	Short-circuit	Fuse rating
LEN00E003...C	10 kA, 600 V	300 A



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Standard short-circuit rating with Max Circuit Breaker Type 3VA51, 3VA52 or 3RV2742:

Type	Short-circuit	3VA51	3VA52	3RV2742
LEN00E003...C	10 kA, 600 V	125 A	250 A	70 A

High-fault currents rating with Max Fuse Class J or L:

Type	Short-circuit	Fuse
LEN00E003...C	100 kA, 600 V	300 A

High-fault currents rating with Max Circuit Breaker Type 3VA51, 3VA52 or 3RV2742:

Type	Short-circuit	3VA51	3VA52	3RV2742
LEN00E003...C	65 kA, 480 V	125 A	-	70 A
	100 kA, 480 V	-	250 A	-
	35 kA, 600 V	-	250 A	-
	20 kA, 600 V	-	-	60 A

Optional rating (CSA Class 3211 24): Performance under short-circuit conditions Type “2” co-ordination

Prospective (Ir) and Conditional (Iq) short-circuit current, with Max Fuse Class J or L:

Type	Prospective (Ir)	Conditional (Iq)	Fuse
3RT2044	5 kA, 600 V	100 kA, 600 V	250 A
3RT2045	10 kA, 600 V	100 kA, 600 V	300 A
3RT2046	10 kA, 600 V	100 kA, 600 V	300 A
3RT2047	10 kA, 600 V	100 kA, 600 V	300 A

Prospective (Ir) and Conditional (Iq) short-circuit current, with Max Circuit Breaker Type 3VA51:

Type	Prospective (Ir)	Conditional (Iq)	CB
3RT204	10 kA, 600 V	65 kA, 480 V	125 A

Prospective (Ir) and Conditional (Iq) short-circuit current, with Max MMC/CMC Type 3RV2.4:

Type	Prospective (Ir)	MMC/CMC
3RT2044	5 kA, 600 V	100 A
3RT2045	10 kA, 600 V	100 A
3RT2046	10 kA, 600 V	100 A
3RT2047	10 kA, 600 V	100 A
Type	Conditional (Iq)	MMC/CMC
3RT204.	42 kA, 480 V	100 A
3RT204.	30 kA, 600 V	75 A
3RT204.	65 kA, 480 V	*100 A
3RT204.	30 kA, 600 V	*100 A

*Only when protected with max fuse 300A Class J or L.

Accessories:

Covers, Types 3RT2946-4EA2, 3RT2946-4EA4

Terminal kits, Types 3RT2946-4G and 3RT2946-4GA07, rated max 120 A



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Notes:

1. Certified as open type for use only in certified equipment, where the acceptability of combination is to be determined by CSA.
2. These devices are intended to be used with this manufacturer (Siemens) Certified overload relays Type 3RU. or 3RB.

Nomenclature Breakdown, for Series 3RT2.4

3RT20	45	-	1	A	..	0	-....
I	II		III	IV	V	VI	VII

I Basic Type

3RT20	3 main contacts + 2 to 6 auxiliary contacts
3RT23	4 NO main contacts + 2 to 6 auxiliary contacts
3RT24	3 NO main contacts + 2 to 6 auxiliary contacts
3RT25	2 NO + 2 NC main contacts + 2 to 6 auxiliary contacts
3RT26	3 NO main contacts + 2 to 4 auxiliary contacts

II Size S3

3RT20:

44	rated 50 hp at 480 V
45	rated 60 hp at 480 V
46	rated 75 hp at 480 V
47	rated 75 hp at 480 V

3RT23:

44	rated AC Resistance 110 A at 600 V
46	rated AC Resistance 120 A at 600 V
48	rated AC Resistance 140 A at 600 V

3RT24:

46	rated AC Resistance 120 A at 600 V
48	rated AC Resistance 140 A at 600 V

3RT25:

44	rated 30 hp at 480 V
45	rated 40 hp at 480 V

3RT26:

45	rated 103 kVar at 600 V 3-ph
46	rated 125 kVar at 600 V 3ph

III Type of Terminals

1	Screw Terminal for main and auxiliary contacts
3	Screw Terminals for Main circuit and Spring Terminals for Control circuit
6	Main Circuit without bow terminals

IV Operating System

A	AC operating system
C	AC operating system with factory assembled EMC protective unit varistor type 3RT2936



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D or K DC operating system with integrated EMC protective unit varistor
E AC operating system with factory assembled EMC protective unit RC combination type 3RT2936
N UC (AC and DC) operating system with integrated EMC protective unit varistor
P AC operating system with factory assembled EMC protective unit diode comb. type 3RT2936
S UC (AC and DC) operating system with input for direct control of PLC
X Type of operating system in combination with "Suffix letters and/or numbers specifies commercial variations (VII)"

V Operating Voltage

... 24 Vac through 600 Vac
... 12 Vdc through 250 Vdc
... 20 Vac/dc through 280 Vac/dc

VI Auxiliary Contact Arrangements

3RT2.4, except 3RT264:

0 1 normally open and 1 normally closed for all operating system (IV) except "S: UC (AC and DC)";
1 normally closed only for operating system (IV) "S: UC (AC and DC)"
4 2 normally open and 2 normally closed with top mounted auxiliary block
6 2 normally open and 2 normally closed with one lateral mounted auxiliary contact on right side
8 any other, individual auxiliary contact arrangements

3RT264:

3 1 normally open and 1 normally closed
4 2 normally open and 2 normally closed
5 2 normally closed

VII Suffix letters and/or numbers specifies commercial variations

-0CC0 Contactor with communication interface
-0LA2 Contactor with DC operating system and integrated varistor
-4AA0 3RT2346 with horsepower ratings
-0VT0 Contactor with line and load terminal with larger spacings (3RT2044, 3RT2045, 3RT2046 only)
-.... Any other commercial variation

Nomenclature Breakdown, Type LEN00E003...C

LE	N	0	0	E	0	03	024	C
I	II	III	IV	V	VI	VII	VIII	IX

I Basic Type
LE Class LE electrically held lighting contactors

II Disconnect Type
N Non-combination

III Disconnect rating
0 Not applicable

IV Enclosure Type
0 Open



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V	Contactor rating
E	100A
VI	Number of poles NC (normally closed)
0	None
VII	Number of poles NO (normally open)
03	Three
VIII	Coil voltage
	24 V up to 600 Vac
IX	Series
C	60A and 100A contactors

Accessories

3RT2946-4AE2	Cover for 3 pole contactors
3RT2946-4AE4	Cover set for 4 pole contactors
3RT2946-4G	Terminal kit
3RT2946-4GA07	Terminal kit providing bigger spacings

APPLICABLE REQUIREMENTS

CSA C22.2 No. 14-18	Industrial Control Equipment (Thirteenth Edition: March 2018)
CAN/CSA C22.2 No 60947-1-13	Low-Voltage Switchgear and Control gear - Part 1: General rules (Second Edition: July 31, 2013)
CAN/CSA C22.2 No 60947-4-1-14	Low-Voltage Switchgear and Control gear - Part 4-1: Contactors and motor-starters - Electromechanical contactors and motor-starters (Second Edition: 4 April 2014)