Certificate No: LR26258107TA
Issue Date: 29/09/2026
Expiry Date: 11/05/2031

Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

Manufacturer	**Siemens AG**
Address	Werner-von-Siemens-Strasse 48, Amberg, 92224, Germany
Type	Contactors
Description	SIRIUS 3R - low voltage switchgear contactors, contactor relay and accessories Refer to the Appendix for further details.
Trade Name	3RT2
Application	Marine, offshore and industrial applications for use in environmental categories ENV1, ENV2 and ENV3 as defined in Lloyd's Register's Type Approval System, Test Specification Number 1 – 2002.
Specified Standard	EN IEC 60947-4-1:2019 EN IEC 60947-5-1:2017 IACS UR E10 (Rev.9 Aug 2023)
Ratings	Refer to the Appendix for further details.
Other Conditions	The Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations. If the specified standards are amended during the validity of this certificate,

Thorsten Wolff

Electrical & Control - Senior Specialist to
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Type Approval Certificate

the product is to be re-approved prior to it being supplied to vessels to which the amended standards apply.

This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

Previous Version: LR21472219TA

The Design Appraisal Document TSO-26-060824/TW and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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Appendix

TYPES

Contactors 3RT2.1 – Size S00

3RT20	15	-1	A	..	0	-....
I	II	III	IV	V	VI	VII

I. Basic Type
3RT20 - motor contactor, 3NO main contacts
3RT23 - AC1-contactor, 4NO main contacts
3RT25 - reversing contactor, 2NO + 2NC main contacts
3RT26 - contactor for capacitive loads

II. Size S00
15 - 3 kW, 16 - 4 kW, 17 - 5,5 kW, 18 - 7,5 kW

III. Type of Terminals: 1, 2, 4

IV. Operating system
A - AC operating system
B - DC operating system
H - DC operating system; operating limits 0.7 ... 1.25 x operating voltage
M - DC operating system; operating limits 0.85... 2.15x operating voltage
M...-0KT0 - DC operating system; operating limits
0.85 ... 1.85 x operating voltage
F - DC operating system with integrated diode
J - DC operating system with integrated diode; operating limits
0.7 ... 1.25 x operating voltage
V - DC operating system with integrated diode; operating limits
0.85 ... 1.85 x operating voltage
G - DC operating system with integrated bridge rectifier for AC control voltage
P - AC operating system with integrated supressor Diode
S or U – DC operating system with integrated supressor diode
K - DC operating system with integrated supressor diode; operating limits 0.7 ... 1.25 x operating voltage
L - DC operating system with integrated varistor; operating limits
0.7 ... 1.25 x operating voltage
Q - Identifies factory assembled EMC protective device; operating limits
0.7 ... 1.25 x operating voltage
W - Identifies factory assembled EMC protective device; operating limits 0.85 ... 1.85 x operating voltage
C, D, E, I, N, O, R,T, X, Y or Z – Identifies factory assembled EMC protective device

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V. Operating voltage
.. - 24Vac through 600Vac or
12Vdc through 250Vdc

VI. Auxiliary Contact Arrangements: 0, 1, 2, 3, 4, 5, 6
VII. Suffix letters and/or numbers specified commercial variations –Optional
-0CC0 – contactor with communication interface
-0LA0 – contactors for railway application with adjusted operating range
-0LA2 - contactors with electronic coil control and integrated varistor
-0KT0 – contactors for special application with adjusted operating range

Contactors 3RT2.2 – Size S0

3RT20	23	-1	A	..	0	-..
I	II	III	IV	V	VI	VII

I. Basic Type
3RT20 - motor contactor, 3NO main contacts
3RT23 - AC1-contactor, 4NO main contacts
3RT25 - reversing contactor, 2NO + 2NC main contacts
3RT26 - contactor for capacitive loads

II. Size S0
23 - 4 kW, 24 - 5,5 kW, 25 - 7,5 kW, 26 - 11 kW, 27 - 15 kW, 28 - 18,5 kW

III. Type of Terminals: 1, 2, 4

IV. Operating system
A - AC operating system
B - DC operating system
C – AC operating system with factory assembled EMC protective unit varistor type
D, K – DC operating system with factory assembled EMC protective unit varistor type
E – AC operating system with factory assembled EMC protective unit RC combination type

F – DC operating system with factory assembled EMC protective unit diode combination
N, X – UC operating system

V. Operating voltage
.. - 24Vac through 600Vac or
12Vdc through 250Vdc

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VI. Auxiliary Contact Arrangements: 0, 1, 2, 3, 4
VII. Suffix letters and/or numbers specified commercial variations – Optional
-0CC0 – contactor with communication interface
-0LA2 – contactors for railway application with adjusted operating range

Contactors 3RT2.3 – Size S2

3RT20	34	-1	A	..	0	-..
I	II	III	IV	V	VI	VII

I. Basic Type
3RT20 - motor contactor, 3NO main contacts
3RT23 - AC1-contactor, 4NO main contacts
3RT25 - reversing contactor, 2NO + 2NC main contacts
3RT26 - contactor for capacitive loads

II. Size S2
35 - 18,5 kW, 36 - 22 kW, 37 - 30 kW, 38 - 37 kW

III. Type of Terminals: 1, 3

IV. Operating system
A - AC operating system
C – AC operating system with factory assembled EMC protective unit varistor type
D – DC operating system with factory assembled EMC protective unit varistor type
E – AC operating system with factory assembled EMC protective unit RC combination type
K, X - DC operating system
N – UC operating system
P - AC operating system with factory assembled EMC protective unit diode combination

V. Operating voltage
.. - 24Vac through 600Vac or
12Vdc through 250Vdc
20Vac/Vdc through 280 Vac/Vdc

VI. Auxiliary Contact Arrangements: 0, 4, 6, 8

VII.Suffix letters and/or numbers specified commercial variations – Optional
-0CC0 – contactor with communication interface

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-0LA2 – contactors for railway application with adjusted operating range
-0GA0 – contactors with low noise operating system

Contactors 3RT2.4 – Size S3

3RT20	45	-1	A	P0	0	-..
I	II	III	IV	V	VI	VII

I. Basic Type
3RT20 - motor contactor, 3 NO main contacts
3RT23 - AC-1 contactor, 4 NO main contacts
3RT24 - AC-1 contactor, 3 NO main contacts
3RT25 - motor contactor, 2 NO + 2 NC main contacts
3RT26.- contactor for capacitive loads

II. Size S3
Motor contactor 3RT20., 3 pole
45 - 37 kW, 46 - 45 kW, 47 - 55 kW

AC-1 contactor 3RT23., 4 pole
44 - 690 V / 110 A, 46 - 690 V / 140 A, 48 - 690 V / 160 A

AC-1 contactor 3RT24., 3 pole
46 - 690 V / 140 A, 48 - 690 V / 160 A

Motor contactor 3RT25., 4 pole (2 NO + 2 NC)
44 - 400 V / 30 kW, 45 - 400 V / 37 kW

Contactors for capacitive loads 3RT26
45 - 75 kVar / 400 V, 46 - 100 kVar / 400 V

III. Type of terminals
1 - screw terminal for main and auxiliary contacts
3 - screw terminal for main circuit and spring terminals for auxiliary and control circuit
6 - main circuit without box terminal

IV. Operating system
A - AC operating system

C - AC operating system with factory assembled EMC protective unit varistor type
D - DC operating system with factory assembled EMC protective unit varistor type
E - AC operating system with factory assembled EMC protective unit

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varistor type
K - DC operating system with integrated varistor
N - UC operating system with integrated varistor
P - AC operating system with factory assembled EMC protective unit diode combination
X - type of operating system in combination with VII.

V. Operating voltage
… - 24 V/AC through 600 V/AC
12 V/DC through 250 V/DC
20 V/AC/DC through 280 V/AC/DC

VI. Auxiliary contact arrangements
0 - 1 NC and 1 NO contact
3 - 1 NO and 1 NC contact (3RT264 with one lateral mounted auxiliary block on the left side)
4 - 2 NO and 2 NC contact (3RT264 with two lateral mounted auxiliary blocks)
5 - 2 NC contacts (3RT264 with one lateral mounted auxiliary block on the left side)
6 - 2 NC and 2 NO contact (with one lateral mounted auxiliary block on the right side)

VII. Suffix letters and/or numbers specified commercial variations – optional
- 0CC0 - contactor with communication interface

- 0LA2 - DC electronic operating system, provided with an input suitable for direct control of a PLC or for conventional control, programmable
- 4AA0 - 3RT2346 (4NO) with AC-3 ratings
- 0GA0 - contactor for low noise switching
- …. - any other commercial variation

Contactor Relays 3RH2 – Size S00

3RH2	1	4	4	1	A	…	-….
I	II	III	IV	V	VI	VII	VIII

I. Basic Type

II. Control Relay
1 - 4 pole
2 - 8 pole with top mounted, not removable auxiliary contact block
3 - 8 pole with top mounted, removable auxiliary contact block

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4 - Latched control relay
8 - specifies commercial versions

III. Contact Arrangements for NO: 0, 1, 2, 3, 4, 5, 6, 7, 8

IV. Contact Arrangements for NC: 0, 1, 2, 3, 4, 5, 6, 7, 8

V. Type of Terminals: 1, 2, 4

VI. Operating System
A - AC operating system
B - DC operating system
H - DC operating system; operating limits 0.7 ... 1.25 x operating voltage

M - DC operating system; operating limits
0.85 ... 2.15 x operating voltage
M...-0KT0 - DC operating system; operating limits
0.85 ... 1.85 x operating voltage
F - DC operating system with integrated diode
J - DC operating system with integrated diode; operating limits
0.7 ... 1.25 x operating voltage
V - DC operating system with integrated diode; operating limits
0.85 ... 1.85 x operating voltage
G - DC operating system with integrated bridge rectifier for AC control voltage
P - AC operating system with integrated supressor Diode
S or U – DC operating system with integrated supressor diode
K - DC operating system with integrated supressor diode; operating limits 0.7 ... 1.25 x operating voltage
L - DC operating system with integrated varistor; operating limits
0.7 ... 1.25 x operating voltage
Q - Identifies factory assembled EMC protective device; operating limits
0.7 ... 1.25 x operating voltage
W - Identifies factory assembled EMC protective device; operating limits 0.85 ... 1.85 x operating voltage
C, D, E, I, N, O, R, T, X, Y or Z – Identifies factory assembled EMC protective device

VII. Operating Voltage
...- 24Vac through 600Vac or
12Vdc through 250Vdc

VIII. Identification – Optional
-0LA0 – contactors for railway application with adjusted operating Range

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-0LA2 - contactors with electronic coil control and integrated varistor
-0KT0 – contactors for special application with adjusted operating range
-0KA0 – contactors 2NO + 2NC DIN EN 50005
-8YY8 – contactors without labelling

Accessories for contactors:

Auxiliary contacts

3RH29	1	1	-	1	A	A	0	0
I	II	III		IV	V	VI	VII	VIII

I. - Basic type
3RH29 - Accessories

II. - Suitable for contactor and contactor relay sizes
1 -Front mounted versions suitable for devices size S00, S0, S2 and S3
Laterally mounted versions for devices size S00
2 -Laterally mounted versions for devices size S0, S2 and S3

III. - Accessories
1 Auxiliary contact blocks

IV. - Type of terminals: 1, 2, 4

V. - Design
A, B, D, E, F, G, H, L, M, N, W, X, Y

VI. - Switching function
A - Standard switching
B - Make-before-break, 1 NO/NC contact pair
C - Make-before-break, 2 NO/NC contact pairs

E - Laterally mounted, solid-state compatible
F - Front mounted, solid-state compatible

VII. - Contact arrangement NO: 0, 1, 2, 3, 4

VIII. - Contact arrangement NC: 0, 1, 2, 3, 4

Communication modules:
3RA2711-1AA00, 3RA2711-2AA00, 3RA2712-1AA00, 3RA2712-2AA00

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Logic modules:

3RA28	1	1	-	1	C	W	1	0
I	II	III		IV	V	VI	VII	VIII

I. - Basic type
3RA28 - electronic timers

II. - Size
1 – S0 and S00
3 - S2 and S3

III. - Type of function
-1 - On-Delay, solid state
-2 - Off-Delay with control voltage, solid state
-3 - Auxiliary Contact On-Delay, relay
-4 - Auxiliary Contact Off-Delay with control voltage, relay
-5 - Auxiliary Contact Off-Delay without control voltage, relay
-6 - Star-Delta Starter Logic-modules

IV. – Terminal: 1, 2
V. – Output
A - Relay, 1 change over contact
C - Solid state, thyristor
D - Solid state, power MOS transistor
F - Relay, 1 NC contact, 1 NO contact

VI. - Voltage Ratings
W - 24V through 240V ac/dc
G - 24V through 90V ac/dc
H - 90V through 240V ac/dc

VII. - Time Range
1 - 3 time ranges, 1s – 10s – 100s

VIII. - Manufacturers Identification
0 - Manufacturers Identification

Pneumatic delay block (0.1 – 30s/1 – 60s):
3RT29 26-2PA01, 3RT29 26-2PA11, 3RT29 26-2PR01, 3RT29 26-2PR11

Surge suppressor:

3RT29	16	-1A	B	00
I	II	III	IV	V

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I. Basic Type, EMC Unit
3RT29 – EMC Unit

II. Size: 16, 26, 36, 46

III. Type of components: -1B, -1C, -1D, -1E, -1F, -1G, -1J, -1L, -1M
IV. Voltage Ratings

A -	Special manufacturer's identification	
B -	24 through 48 V ac	24 through 70 V dc
C -	48 through 127 V ac	70 through 150 V dc
D -	127 through 240 V ac	150 through 250 V dc
E -	240 through 400 V ac	---
F -	400 through 600 V ac	---
G -	---	12 through 250 V dc
H -	---	24 through 250 V dc
J or P -	24 through 48 V ac	12 through 24 V dc
K or Q -	48 through 127 V ac	24 through 70 V dc
L or R -	127 through 240 V ac	70 through 150 V dc
M -	---	24 through 70 V dc
N -	---	70 through 150 V dc
O -	---	150 through 250 V dc
S -		30 through 250 V dc
T -	70 through 240 V ac	70 through 250 V dc

V. Manufacturers identification
00 - For manufacturers identification

EMC suppression module:
RC elements: 3RT29 16-1PA1, 3RT29 16-1PA2, 3RT29 16-1PA3,
Varistor: 3RT29 16-1PB1, 3RT29 16-1PB2, 3RT29 16-1PB3

Coil connection module:
3RT29 26-4RA11, 3RT29 26-4RB11, 3RT29 26-4RC11, 3RT29 26-4RA12, 3RT29 26-4RB12

Connection modules for contactors with screw terminals:
3RT29 16-4RD01, 3RT29 26-4RD01, 3RT19 00-4RE01
Interface modules:
3RH29 14-1GP11, 3RH29 14-2GP11

Further accessories:
3RT19 16-4BB31, 3RT19 16-4BB41, 3RT29 26-4BB31, 3RT19 36-4BB31, 3RT19 46-4BB31

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3RA29 13-3K, 3RV29 25-5AB, 3RV29 25-5EB, 3RV29 35-5A, 3RV29 35-5E, 3RA2943-3L
3RH29 24-1GP11, 3RT29 26-1QT00, 3RT29 16-4MA10,
3RT29 16-4EA13, 3RV29 28-4AA00, 3RT29 26-4EB13, 3RT29 36-4EA4,
3RT2946-4EA2, 3RT2946-4EA4, 3RT2916-4JA02, 3RT1916-4JA02

Reversing contactors 3RA231 Size S00

3RA23	17	-8X	A	0	.	- .	.	..
I	II	III	IV	V	VI	VII	VIII	IX

I. Basic type
3RA23 - Reversing starter, basic contactor 3RT2

II. 15 - Basic contactor Type 3RT2015
16 - Basic contactor Type 3RT2016
17 - Basic contactor Type 3RT2017
18 - Basic contactor Type 3RT2018

III. Type of motor protection device
-8X - Without overload relays

IV. Type of mounting: A, B, E, Z

V. Type of locking mechanism: 0, 1, 2, 3, 4, 9

VI. Auxiliary contact arrangements each device: 0 - 7

VII. Type of terminals (Identical to the basic contactor 3RT2): 1, 2
VIII. Operating system
. - Identical to the basic contactor 3RT2

IX. Operating voltage
.. - Identical to the basic contactor 3RT2

Wye-delta starters 3RA241 Size S00

3RA24	17	-8X	E	3	.	-1	A	..
I	II	III	IV	V	VI	VII	VIII	IX

I. Basic type
3RA24 – Star-delta starter, basic contactor 3RT2

II. 14 - 3RT2015, 3RT2015, 3RT2015
15 - 3RT2015, 3RT2015, 3RT2015

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16 - 3RT2017, 3RT2017, 3RT2015
17 - 3RT2018, 3RT2018, 3RT2016

III. Type of motor protection device
-8X - Without overload relays

IV. Type of interface
E - I/O Link module
F - Logic module
H - AS-I module

V. Type of locking mechanism: 3

VI. Auxiliary contact arrangements each device: 1

VII. Type of terminals (Identical to the basic contactor 3RT2): 1, 2

VIII. Operating system:
A - AC operating system
B - DC operating system

IX. Operating voltage
.. - Identical to the basic contactor 3RT2

Reversing contactors 3RA232 Size S0

3RA23	28	-8X	A	0	.	- .	.	..
I	II	III	IV	V	VI	VII	VIII	IX

I. Basic type
3RA23 - Reversing starter, basic contactor 3RT2

II. 24 - Basic contactor Type 3RT2024
25 - Basic contactor Type 3RT2025
26 - Basic contactor Type 3RT2026
27 - Basic contactor Type 3RT2027
28 - Basic contactor Type 3RT2028

III. Type of motor protection device
-8X - Without overload relays

IV. Type of mounting: A, B, E, Z

V. Type of locking mechanism: 0, 1, 2, 3, 4, 9

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VI. Auxiliary contact arrangements each device: 0, 3, 4, 5, 6, 7

VII. Type of terminals: 1, 2

VIII. Operating system
. - Identical to the basic contactor 3RT2

IX. Operating voltage
.. - Identical to the basic contactor 3RT2

Wye-delta starters 3RA242 Size S0

3RA24	26	-8X	E	3	.	-1	A	..
I	II	III	IV	V	VI	VII	VIII	IX

I. Basic type
3RA24 – Star-delta starter, basic contactor 3RT2

II. 23 - 3RT2024, 3RT2024, 3RT2024
24 - 3RT2026, 3RT2026, 3RT2024
25 - 3RT2026, 3RT2026, 3RT2024
26 - 3RT2027, 3RT2027, 3RT2026

III. Type of motor protection device
-8X - Without overload relays

IV. Type of interface
E - I/O Link module
F - Logic module
H -AS-I module

V. Type of locking mechanism: 3

VI. Auxiliary contact arrangements each device: 2

VII. Type of terminals (Identical to the basic contactor 3RT2): 1, 2

VIII. Operating system
A - AC operating system
B - DC operating system
IX. Operating voltage
.. - Identical to the basic contactor 3RT2

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Reversing contactors 3RA233 Size S2

3RA23	38	-8X	B	0	.	- .	.	..
I	II	III	IV	V	VI	VII	VIII	IX

I. Basic type
3RA23 - Reversing starter, basic contactor 3RT2

II. 35 - Basic contactor Type 3RT2035
36 - Basic contactor Type 3RT2036
37 - Basic contactor Type 3RT2037
38 - Basic contactor Type 3RT2038

III. Type of motor protection device
-8X - Without overload relays

IV. Type of mounting: B

V. Type of locking mechanism: 3

VI. Auxiliary contact arrangements each device: 0

VII. Type of terminals: 1

VIII. Operating system
A - AC operating system
N - UC operating system
IX. Operating voltage
.. - Identical to the basic contactor 3RT2.3

Reversing contactors 3RA234 Size S3

3RA23	44	-8X	B	3	0	-1	A	P0
I	II	III	IV	V	VI	VII	VIII	IX

I. Basic type
3RA23 - Reversing starter, basic contactor 3RT2

II. Size
45 - Basic contactor Type 3RT2045
46 - Basic contactor Type 3RT2046
47 - Basic contactor Type 3RT2047

III. Type of motor protection device
-8X - Without overload relays

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IV. Type of mounting
B - Direct mounting
E - Basic contactor with communication interface

V. Type of locking mechanism
3 - With mechanical and electrical interlock
VI. Auxiliary contact arrangements each device
0 - 1 normally open

VII. Type of terminals
1 - Screw terminal

VIII. Operating system
A - AC operating system
N - UC operating system

IX. Operating voltage
.. - Identical to the basic contactor 3RT2.4

Accessories:
IO-link add-on module:
3RA2711-1BA00, 3RA2711-2BA00, 3RA2711-1CA00, 3RA2711-2CA00

AS-interface add-on module
3RA2712-1BA00, 3RA2712-2BA00, 3RA2712-1CA00, 3RA2712-2CA00

Connecting cable
3RA2711-0EE02, 3RA2711-0EE03, 3RA2711-0EE06, 3RA2711-0EE07,
3RA2711-0EE08, 3RA2711-0EE10, 3RA2711-0EE04, 3RA2711-0EE11,
3RA2711-0EE16, 3RA2711-0EE15 (interface cover), 3RA2711-0EE17
3RA2711-0EE18

Operator panel for IO-link starters: 3RA6935-0A
Logic add on module for wye-delta starter: 3RA2816-0EW20
Couple module for wye-delta starter: 3RA2911-0
Basis module for wye-delta starter: 3RA2912-0

Reversing connector set:
3RA2913-2AA1, 3RA2913-2AA2, 3RA2923-2AA1, 3RA2923-2AA2,
3RA2933-2AA1, 3RA2933-2AA2, 3RA2943-2AA1, 3RA2943-2AA2

Wye-delta connector set:
3RA2913-2BB1, 3RA2913-2BB2, 3RA2923-2BB1, 3RA2923-2BB2,
3RA2933-2C, 3RA2933-2BB1, 3RA2933-2BB2, 3RA2943-2C,

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3RA2943-2BB1, 3RA2943-2BB2

Star jumper
3RT2916-4BA32, 3RT2926-4BA32, 3RT1936-4BA31, 3RT1946-4BA31

Mechanical interlock
3RA2912-2H, 3RA2934-2B

Wiring conector
3RA2913-3DA1, 3RA2913-3EA1, 3RA2913-3DA2, 3RA2913-3EA2,
3RA2923-3DA1, 3RA2923-3EA1, 3RA2923-3DA2, 3RA2923-3EA2,
3RA1933-3D, 3RA1933-3E

Mechanical conector
3RA2932-2C, 3RA2932-2G, 3RA2932-2D

Serial connector for contactors
3RA2916-1A, 3RA2926-1A, 3RA2936-1A

PLACES OF PRODUCTION

Types 3RT2.1, 3RT2.2, 3RH2:
Siemens AG
Werner-von-Siemens-Straße 48
92220 Amberg
Germany

Types 3RT2.1, 3RT2.2, 3RH2:
Siemens Ltd.
Thane-Belapur Road
Airoli, Navi Mumbai
Maharashtra, 400708
India

Types 3RT2.3, 3RT2.4:
Siemens AG
Werner-von-Siemens-Straße 29
93413 Cham
Germany

Types 3RH29, 3RA27, 3RA28:
Siemens, s.r.o.,
odstěpny závod Nízkonapět'ová spínací technika
Volanovska 516
541 01 Trutnov
Czech Republic

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Types 3RV29 and 3RH29:
SIMEA SIBIU S.R.L.
550197 Sibiu
Piata Cibin Nr. 5
Romania

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