CERTIFICATE NUMBER
16-HG1536415-PDA

DATE
06 Jul 2016

ABS TECHNICAL OFFICE
Hamburg Engineering Department

CERTIFICATE OF DESIGN ASSESSMENT

This is to certify that a representative of this Bureau did, at the request of

SIEMENS AG GWA

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

Product: **Contactor, Electrical**

Model: **SIRIUS 3RT2.1, 3RT2.2, 3RT2.3, 3RT19, 3RT29, 3RH2, 3RH29, 3RA231, 3RA232, 3RA233, 3RA241, 3RA242, 3RA19, 3RA27/28/29, 3RA6935, 3RV29**

This Product Design Assessment (PDA) Certificate 16-HG1536415-PDA, dated 06/Jul/2016 remains valid until 05/Jul/2021 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

This PDA is intended for a product to be installed on an ABS classed vessel, MODU or facility which is in existence or under contract for construction on the date of the ABS Rules or specifications used to evaluate the Product.

Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA.

Use of the Product for non ABS classed vessels, MODUs or facilities is to be to an agreement between the manufacturer and intended client.

AMERICAN BUREAU OF SHIPPING

U. Numirski

Ulf Numirski
Engineer/Consultant

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by the terms and conditions as contained in ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010).

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EU-Konformitätserklärung / *EU Declaration of Conformity*

Produktbezeichnung: *Product identification*	Schütze, Hilfsschütze, Wendestarter, Stern-Dreieck-Starter, Hilfsschalter und Zubehör, 3RT2.1, 3RT2.2, 3RT2.3, 3RT2.4, 3RH2, 3RA231, 3RA232, 3RA233, 3RA234, 3RA241, 3RA242, 3RA243, 3RA244, 3RH29, 3RT29 and 3RA29 *Contactors, Contactor relays, Reversing contactors, Wye-Delta-Starters, Auxiliary contacts and accessories*
Hersteller: *Manufacturer*	Siemens AG, DF CP
Anschrift: *Address*	DE-92220 Amberg

Die alleinige Verantwortung für die Ausstellung dieser Konformitätserklärung trägt der Hersteller.

Der oben beschriebene Gegenstand der Erklärung erfüllt die einschlägigen Harmonisierungsrechtsvorschriften der Union:

Niederspannungsrichtlinie:

2014/35/EU Richtlinie des Europäischen Parlaments und des Rates vom 26. Februar 2014 zur Harmonisierung der Rechtsvorschriften der Mitgliedstaaten über die Bereitstellung elektrischer Betriebsmittel zur Verwendung innerhalb bestimmter Spannungsgrenzen auf dem Markt; Amtsblatt der EU L96, 29/03/2014, S. 357–374

EMV-Richtlinie:

2014/30/EU Richtlinie des Europäischen Parlaments und des Rates vom 26. Februar 2014 zur Harmonisierung der Rechtsvorschriften der Mitgliedstaaten über die elektromagnetische Verträglichkeit; Amtsblatt der EU L96, 29/03/2014, S. 79–106

RoHS-Richtlinie:

2011/65/EU Richtlinie des Europäischen Parlaments und des Rates vom 8. Juni 2011 zur Beschränkung der Verwendung bestimmter gefährlicher Stoffe in Elektro- und Elektronikgeräten; Amtsblatt der EU L174, 1/07/2011, S. 88–110

This declaration of conformity is issued under the sole responsibility of the manufacturer.

The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:

Low Voltage Directive:

2014/35/EU *Directive of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of the Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits; Official Journal of the EU L96, 29/03/2014, p. 357–374*

EMC Directive:

2014/30/EU *Directive of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of the Member States relating to electromagnetic compatibility; Official Journal of the EU L96, 29/03/2014, p. 79–106*

RoHS Directive:

2011/65/EU *Directive of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment; Official Journal of the EU L174, 1/07/2011, p. 88–110*

Diese Erklärung bescheinigt die Übereinstimmung mit den genannten Richtlinien, ist jedoch keine Beschaffenheits- oder Haltbarkeitsgarantie. Die Sicherheitshinweise der mitgelieferten Produktdokumentation sind zu beachten.

This declaration is an attestation of conformity with the indicated Directive(s) but does not imply any guarantee of quality or durability. The safety instructions of the accompanying product documentation shall be observed.

Siemens Aktiengesellschaft: Chairman of the Supervisory Board: Gerhard Cromme;
Managing Board: Joe Kaeser, Chairman, President and Chief Executive Officer; Roland Busch, Lisa Davis, Klaus Helmrich, Janina Kugel, Cedrik Neike, Michael Sen, Ralf P Thomas;
Registered offices: Berlin and Munich, Germany; Commercial registries: Berlin Charlottenburg, HRB 12300, Munich, HRB 6684; WEEE-Reg.-No. DE 23691322

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Die Übereinstimmung des bezeichneten Produkts mit den Vorschriften der angewandten Richtlinie(n) wird nachgewiesen durch die vollständige Einhaltung folgender Normen / Vorschriften:

The conformity of the product described above with the provisions of the applied Directive(s) is demonstrated by full compliance with the following standards / regulations:

Normen / *standards*:
Referenznummer
Reference number

EN 60947-4-1:2010/A1:2012

EN 60947-5-1:2004/A1:2009

EN 50581:2012

Unterzeichnet für und im Namen von: / *signed for and on behalf of:*

Siemens Aktiengesellschaft

Amberg 2017-06-27
Ort / *place* Datum der Ausstellung / *date of issue*

Peter Hartinger
Head of Verification and Certification

i.V.
Name / *name* Unterschrift / *signature*
Funktion / *function*

Fritz Royer
Head of Project Management Mechatronics

i.V.
Name / *name* Unterschrift / *signature*
Funktion / *function*

Diese Erklärung bescheinigt die Übereinstimmung mit den genannten Richtlinien, ist jedoch keine Beschaffenheits- oder Haltbarkeitsgarantie. Die Sicherheitshinweise der mitgelieferten Produktdokumentation sind zu beachten.

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Prüf-Nr./Q-Nr.: *Certificate No.:* **3048 d**

Dienststelle: *Department:* **DF CP R&D V 3 / Pester**

Ort: *Place:* **Amberg** Tag: *Date:* **2015-06-10**

Anlagen: *Enclosures:* **Test Summary 3048 d**

Typprüfbescheinigung / *Typ Test Certificate*

Erzeugnis / *Product:* **Contactors and Contactor Relays**

Typ: *Type:* **3RT2 3RH21**

Tech. Daten: *Specification:* **U_e = 690V**
AC-3: 400 V / 16 A
AC-3: 400 V / 38 A
AC-15: 230 V / 10 A

Hersteller: *Manufacturer:* **Siemens AG DF CP**

Art der Prüfung / *Type of test:* **Vibration and Shock / Railway Applications**

Prüfer / *Tested by:* **DF CP R&D V 1**

Labor / *Laboratory:* **LOVAG registered and DAkkS accredited Testing Laboratory Siemens AG, Amberg**

Angewandte Prüfbestimmungen / *Test specifications applied:*
DIN EN 61373: 04.2011; IEC 61373: 05.2010

Durchgeführte Prüfungen / *Tests conducted:*
Vibration and shock tests to cover requirements for Railway applications Category 1, Class B

Prüfergebnis / *Test results:*
All requirements of the test specification are met.

Bemerkungen / *Remarks:* **Issued: 07.03.2011**

Index b, dated 26.11.2013: **Test summary 3048b Part A replaces test reports 09014TMv03, 09015TMv03 and 10016TMv.**

Index c, dated 05.03.2014: **Test summary 3048c part A replaces test summary 3048b part A.**

Index d, dated 10.06.2015: **New types of railway contactors with resistors were added.**

i.V.
DF CP R&D V Mr. Schweiger

i.V.
DF CP R&D EN Mr. Koppmann

SIEMENS AG **Digital Factory**

Anton S. Huber, CEO

Siemens Aktiengesellschaft: Chairman of the Supervisory Board: Gerhard Cromme;
Managing Board: Joe Kaeser, Chairman, President and Chief Executive Officer; Roland Busch, Lisa Davis, Klaus Helmrich, Janina Kugel, Siegfried Russwurm, Ralf P. Thomas;
Registered offices: Berlin and Munich, Germany; Commercial registries: Berlin Charlottenburg, HRB 12300, Munich, HRB 6684; WEEE-Reg.-No. DE 23691322

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Product description

Certificate No.: 3048d

Type designation: *3RT2…*
3RH21…

Manufacturer: *Siemens AG I IA CE CP Amberg*
92220 Amberg, Werner–von–Siemens-Str. 48

Production site: *Siemens AG, DF CP,*
92220 Amberg, Werner-von-Siemens-Str. 48, Germany

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Nomenclature breakdown **Certificate No.: 3048d**

Series: 3RT2.1…
3RH21…

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

II. Size S00

15 - 3 kW
16 - 4 kW
17 - 5,5 kW
18 - 7,5 kW

III. Type of Terminals

1 - Screw Terminal for main and auxiliary contacts
2 - Spring Terminal for main and auxiliary contacts
4 - Ring lug terminals for main and auxiliary contacts

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 ... 2.15 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 W

V. Operating voltage

.. - 24Vac through 600Vac (A8E56203920000A dated (2010-09-02))
12Vdc through 250Vdc (A8E56203921000A dated (2010-10-07))

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Nomenclature breakdown

Certificate No.: 3048d

VI. Auxiliary Contact Arrangements

0 –	non auxiliary contact
1 -	1 normally open
2 -	1 normally closed
3 -	1 normally open and 1 normally closed
4 -	2 normally open and 2 normally closed
5 –	3 normally open and 2 normally closed
6 –	2 normally open and 3 normally closed

VII. Suffix letters and/or numbers specified commercial variations

-0CC0 –	contactor with communication interface
-0LA0 –	contactors for railway application with adjusted operating range
-0KT0 –	contactors for special application with adjusted operating range

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
4 -	Latched control relay
8 -	specifies commercial versions

III. Contact Arrangements for NO

0 -	non NO
1 -	1 NO
2 -	2 NO
3 -	3 NO
4 -	4 NO
5 -	5 NO
6 -	6 NO
7 -	7 NO
8 -	8 NO

IV. Contact Arrangements for NC

0 -	non NC
1 -	1 NC
2 -	2 NC
3 -	3 NC
4 -	4 NC
5 -	5 NC
6 -	6 NC
7 -	7 NC
8 -	8 NC

V. Type of Terminals

1 -	Screw Terminal
2 -	Spring Terminal
4 -	Ring Lug Terminal

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Nomenclature breakdown **Certificate No.: 3048d**

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 – W	Identifies factory assembled EMC protective device

VII. Operating Voltage

.. -	24Vac through 600Vac (A8E56203920000A dated (2010-09-02))
	12Vdc through 250Vdc (A8E56203921000A dated (2010-10-07))

VIII. Identification

-0LA0 –	contactors for railway application with adjusted operating range
-0KT0 –	contactors for special application with adjusted operating range
-0KA0 –	contactors 2NO + 2NC DIN EN 50005
-8YY8 –	contactors without labelling

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Nomenclature breakdown **Certificate No.: 3048d**

Series: 3RT2.2…

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

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 -	Screw Terminal for main and auxiliary contacts
2 -	Spring Terminal for main and auxiliary contacts
4 –	Ring lug Terminal for main and auxiliary contacts

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 (A8E56303920000A dated (2010-09-10))
	12Vdc through 250Vdc (A8E56303923000A dated (2010-09-10))

VI. Auxiliary Contact Arrangements

0 –	1 normally open and 1 normally closed
1 -	1 normally open, top mounted
2 -	1 normally closed, top mounted
3 -	1 normally open and 1 normally closed, top mounted
4 -	2 normally open and 2 normally closed, top mounted

VII. Suffix letters and/or numbers specified commercial variations

-0CC0 –	contactor with communication interface
-0LA2 –	contactors for railway application with adjusted operating range
-0KT0 –	contactors for special application with adjusted operating range

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Nomenclature breakdown **Certificate No.: 3048d**

Series: 3RT201… for railway application
3RT202… for railway application
3RH21… for railway application

3RT20	15	-1	A	B4	0	-0	LA2	- …
I	II	III	IV	V	VI	VII	VIII	IX

I. Basic Type
3RT20 - motor contactor, 3NO main contacts

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

III. Type of Terminals
1 - Screw Terminal for main and auxiliary contacts
2 - Spring Terminal for main and auxiliary contacts
4 - Ring lug Terminal for main and auxiliary contacts

IV. Operating system
H - DC operating system; operating limits 0.7 ... 1.25 x operating voltage
K- DC operating system with integrated supressor diode; operating limits
L- DC 0,7...1,25 Us, with extended operating range and integrated varistor

V. Operating voltage
24Vdc through 110Vdc(B4, F4)

VI. Auxiliary Contact Arrangements
0 – non auxiliary contact
1 - 1 normally open
2 - 1 normally closed
3 - 1 normally open and 1 normally closed
4 - 2 normally open and 2 normally closed
5 – 3 normally open and 2 normally closed
6 – 2 normally open and 3 normally closed
8 - Any other, individual auxiliary contact arrangements contacts

VII. Installation Position
0 - normal
1 - standing
2 - hanging

VIII. railway contactor variations
LA0 - standard

IX.
-.... Any other commercial variation

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Nomenclature breakdown

Certificate No.: 3048d

3RT20	23	-1	A	B4	0	-..
I	II	III	IV	V	VI	VII

I. Basic Type

3RT20 - motor contactor, 3NO main contacts

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 - Screw Terminal for main and auxiliary contacts
2 - Spring Terminal for main and auxiliary contacts

IV. Operating system

K – DC operating system with factory assembled EMC protective unit varistor type
X – UC operating system

V. Operating voltage

24Vdc through 230Vdc(B4, L4, J4, F4, P4)

VI. Auxiliary Contact Arrangements

0 – 1 normally open and 1 normally closed
1 - 1 normally open, top mounted
2 - 1 normally closed, top mounted
3 - 1 normally open and 1 normally closed, top mounted
4 - 2 normally open and 2 normally closed, top mounted

VII. Suffix letters and/or numbers specified commercial variations

-0LA2 – contactor with communication interface

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Nomenclature breakdown

Certificate No.: 3048d

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

III. Contact Arrangements for NO

0 -	non NO
1 -	1 NO
2 -	2 NO
3 -	3 NO
4 -	4 NO
5 -	5 NO
6 -	6 NO
7 -	7 NO
8 -	8 NO

IV. Contact Arrangements for NC

0 -	non NC
1 -	1 NC
2 -	2 NC
3 -	3 NC
4 -	4 NC
5 -	5 NC
6 -	6 NC
7 -	7 NC
8 -	8 NC

V. Type of Terminals

1 -	Screw Terminal
2 -	Spring Terminal
4 -	Ring lug Terminal

VI. Operating System

H -	DC operating system; operating limits 0.7 ... 1.25 x operating voltage
K -	DC operating system with integrated supressor diode; operating limits
L -	DC 0,7...1,25 Us, with extended operating range and integrated varistor

VII. Operating Voltage

24V dc through 110V dc(B4, F4)

VIII. Identification

not covered by this test report

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Nomenclature breakdown **Certificate No.: 3048d**

Accessories for contactor

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

I - Basic type

3RH29 -	Accessories

II - Suitable for contactor and contactor relay sizes

1 -	Front mounted versions suitable for devices size S00
2 -	Laterally mounted versions for devices size S00

III - 1 - Accessories, auxiliary contact blocks

IV - Type of terminals

1 -	Screw terminal
2 -	Cage Clamp terminal
4 -	Ring lug terminal

V - Design

A -	Front mounted, 1 pole, entry of conductors top
B -	Front mounted, 1 pole, entry of conductors bottom
D -	Laterally mounted, 2 pole, marking according to DIN EN 50 012
E -	Laterally mounted, 2 pole, marking according to DIN EN 50 005
F	Front mounted, 4 pole, marking according to DIN EN 50 005
G	Front mounted, 4 pole, marking according to DIN EN 50 011
H	Front mounted, 4 pole, marking according to DIN EN 50 012
L	Front mounted, 2 pole, entry of conductors top
M	Front mounted, 2 pole, entry of conductors bottom
N	Front mounted, solid-state compatible
W	Front mounted, 4-pol, DIN EN 50 005, mit Ord.-number 1., 2., 3., 4.
X	Front mounted, 4-pol, DIN EN 50005, mit Ord.- number 5., 6., 7., 8.
Y	Front mounted, 4-pol, DIN EN 50005, Special type

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 -	Non NO
1 -	1 NO
2 -	2 NO
3 -	3 NO
4 -	4 NO

VIII - Contact arrangement NC

0 -	Non NC
1 -	1 NC
2 -	2 NC
3 -	3 NC
4 -	4 NC

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Nomenclature breakdown

Certificate No.: 3048d

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

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

IV - Terminal

-0 -	Without terminals
-1 -	Screw terminal
-2 -	Spring terminal

V - Output

A -	Relay, 1 change over contact
C -	Solid state, thyristor
D -	Solid state, power MOS transistor
E -	Relay, 2 NO contacts
F -	Relay, 1 NC contact, 1 NO contact

VI - Voltage Ratings

W -	24V through 240V ac/dc

VII - Time Range

1 -	3 time ranges, 1s – 10s – 100s
2 -	3 time ranges, 10s – 30s – 60s

VIII - Manufacturers Identification

0 - Manufacturers Identification

Communication modules:

3RA2711-1AA00	IO-link add-on module for direct starter, screw terminals
3RA2712-1AA00	AS-interfce add-on module for direct starter, screw terminals
3RA2711-2AA00	IO-link add-on module for direct starter, spring terminals
3RA2712-2AA00	AS-interfce add-on module for direct starter, spring terminals

SIEMENS

Nomenclature breakdown

Certificate No.: 3048d

Surge suppressor:

3RT29	**16**	**-1A**	**B**
I	II	III	ÎV

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

II. Size
16 - suitable for use with devices S00
26 - suitable for use with devices S0

III. Type of components
-1B - Varistor without LED
-1C - RC element with or without LED
-1D - diode without LED
-1E or -1T - diode combination (diode + Zener diode) without LED
-1F - Zener diode without LED
-1G – resistor without LED
-1J - Varistor with LED
-1L - diode with LED
-1M - diode combination with LED

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 240 V dc
E -	240 through 400 V ac	---
F -	400 through 600 V ac	---
G -	---	12 through 240 V dc
H -	---	24 through 240 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 240 V dc
S -	24 through 70 V ac	24 through 70 V dc
T -	70 through 240 V ac	70 through 240 V dc

V. Manufacturers identification
00 – For manufacturers identification

Connection modules for contactors with screw terminals:

3RT19 16-4RD01	adapter for connector size S00
3RT19 00-4RE01	plug for contactor

Pneumatic delay block:

3RT29 26-2PA01	on delay time range 0,1 – 30 s
3RT29 26-2PA11	on delay time range 30 – 60 s
3RT29 26-2PR01	off delay time range 0,1 – 30 s
3RT29 26-2PR11	off delay time range 30 – 60 s

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Nomenclature breakdown

Certificate No.: 3048d

Mechanic latching block:

3RT29 26-3AB31	operating voltage AC/DC 24V
3RT29 26-3AF31	operating voltage AC/DC 110V
3RT29 26-3AP31	operating voltage AC/DC 230V

EMC suppression module:

3RT29 16-1PA1	RC elements up to 400V
3RT29 16-1PA2	RC elements up to 575V
3RT29 16-1PA3	RC elements up to 690V
3RT29 16-1PB1	varistor up to 400V
3RT29 16-1PB2	varistor up to 575V
3RT29 16-1PB3	varistor up to 690V

Coil connection module:

3RT29 26-4RA11	connection from top screw terminals
3RT29 26-4RB11	connection from bottom screw terminals
3RT29 26-4RC11	connection diagonally screw terminals
3RT29 26-4RA12	connection from top spring terminals
3RT29 26-4RB12	connection from bottom spring terminals

Connection modules for contactors with screw terminals:

3RT19 26-4RD01	adapter for connector size S0
3RT19 00-4RE01	plug for contactor

Further accessories:

3RT19 16-4BB31	link for paralleling 3-pole size S00
3RT19 16-4BB41	link for paralleling 4-pole size S00
3RT29 26-4BB31	link for paralleling 3-pole size S0
3RH29 24-1GP11	coupling link
3RA29 13-3K	connection from top size S00
3RT29 26-1QT00	LED module
3RT29 16-4MA10	sealable cover
3RT29 16-4EA13	cover for ring lug terminals Size S00
3RV2928-4AA00	cover for ring lug terminals main contacts size S0
3RT29 26-4EB13	cover for ring lug terminals auxiliary contacts size S0

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Technical data **Certificate No.: 3048d**

see type test certificate according to product standard

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LOVAG ilac-MRA DAkkS Deutsche Akkreditierungsstelle D-PL-11055-04-00

Test summary

Certificate No.: 3048d

Test laboratory: *Type Test Center Siemens AG Amberg*
92220 Amberg, Werner–von–Siemens-Str. 48

Manufacturer: *Siemens AG I IA CE CP Amberg*
92220 Amberg, Werner–von–Siemens-Str. 48

Test object: *contactors and contactor relays*
size S00 and S0

Type designation: *3RT2…*
3RH21…

Test specification: *DIN EN 61373 (2011-04)* *IEC 61373 (2010-05)*

Test report No.: *09014TMv03, 09015TMv03, 10016TMv, 13031ENV, 13074ENV03, 13111ENV01, 14081ENV02a*

The Test summary consists of 16 pages and is only valid combined with the product description

Test report No.: 09014TMv03 according to DIN EN 61373 (1999-11) and IEC 61373 (1999-01)

Test samples:

Sample no	Device no 09014TM	Tested device	Order-No.	Date code	mounting	monitoring
29	-072	contactor	3RT2018-4BB41	E01;G/091210	snap mounted	all contacts
	-073	auxiliary switch block front mounted	3RH2911-4GA22	E01;L0091008		
	-074	surge suppressor	3RT2916-1BB00	E00; MRE/090206		connection
	-075	EMC suppression module	3RT2916-1PB3	E01;MRE/090227		
30	-076	contactor	3RT2017-2HB41	E01;G/091209	snap mounted	all contacts
	-077	sealable cover	3RT2916-4MA10	E01; 19MRZ. 2008		mechanic function
31	-078	contactor relays	3RH2122-1HB40	E01; G/091211	snap mounted	all contacts
32	-079	contactor relays	3RH2122-2JB40	E01;G/091210		all contacts
33	-081	contactor	3RT2015-1BB41-0CC0	E01;G/090303	screw mounted	all contacts
	-084	adapter for contactor	3RT1916-4RD01	WDM/090406		connection
	-085	plug for contactor	3RT1900-4RE01	E03; WDM/091008		
	-087	IO-link add-on module	3RA2711-1AA00	E01;L0090903		electric function
34	-088	contactor	3RT2018-1GG21	E01;G/091214	screw mounted	all contacts
	-089	link for paralleling	3RT1916-4BB41	E01		connection
	-090	LED module	3RT2926-1QT00	ZZ090126		electric function
35	-091	contactor relays	3RH2122-4AP00	E01;G/090305	screw mounted	all contacts
	-092	auxiliary switch block front mounted	3RH2911-4GA22	E00; HOZ090406		
snap mounted: mounting rail 7,5mm x 35mm						

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LOVAG ilac-MRA DAkkS Deutsche Akkreditierungsstelle D-PL-11055-04-00

Test summary

Certificate No.: 3048d

Required test values:

Vibration test:

test	frequency range Hz	load duration each axis	category 1 , class B		standard specific. paragraph
			ASD – level $(m/s^2)^2/Hz$	RMS value m/s^2	
long life test	5 – 150Hz	5 h	1,857	7,9	9.1
functional test	5 – 150Hz	10 min	0,0298	1,0	8.1

Shock test:

category	orientation	peak acceleration m/s^2	nominal duration ms	standard specific. paragraph
1 B	Vertical Transverse Longitudinal	30 30 50	30	10.5

Test results:

Sample No.	**Tests**		
	Long life test **according to:** **DIN EN 61373** **part 9.1**	**Functional test** **according to:** **DIN EN 61373** **part 8.1**	**shock** **according to:** **DIN EN 61373** **part 10.5** **1)**
29	passed	passed	$50m/s^2$
30	passed	passed	$50m/s^2$
31	passed	passed	$50m/s^2$
32	passed	passed	$50m/s^2$
33	passed	passed	$50m/s^2$
34	passed	passed	$50m/s^2$
35	passed	passed	$50m/s^2$

1) shock passed by this test sample, shock duration: 30ms

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LOVAG ilac-MRA DAkkS Deutsche Akkreditierungsstelle D-PL-11055-04-00

Test summary

Certificate No.: 3048d

Test report no.: 09015TMv03 according to DIN EN 61373 (1999-11) and IEC 61373 (1999-01)

Test samples:

Sample no	Device no 09015TM	Tested device	Order-No.	Date code	mounting	monitoring
19	-061	contactor	3RT2027-4BB40	E01; G/091130	snap mounted	connection
	-062	auxiliary switch block front mounted	3RH2911-4GA22	E01; LO/090930		
20	-063	contactor	3RT20271KB40	E01; G/091203	snap mounted	all contacts
	-064	surge suppressor	3RT2926-1BB00	E01; MRE/090924		connection
	-065	adapter for contactor	3RT1926-4RD01	E02; WDM/090303		
	-066	plug for contactor	3RT1900-4RE01	E03; WDM/100414		
	-067	connection from top	3RV2925-5AB	E01		
21	-068	contactor	3RT2327-1BB40	E01;G/091216	snap mounted	all contacts
	-069	coil connection module	3RT2926-4RA11	E01		connection
	-070	coupling link	3RH2924-1GP11	E00;L0090407		electric function
	-071	pneumatic delay block	3RT2926-2PA01	E01;G/100205		mechanic and electric function
22	-072	contactor	3RT2027-1NB30	E01; G/091126	snap mounted	all contacts
	-073	mechanic latching block	3RT2926-3AB31	E01; G/090420		mechanic and electric function
	-074	link for paralleling	3RT2926-4BB31	E01; G/081212		connection
23	-075	contactor	3RT2025-1AP00	E01; G/090914	screw mounted	all contacts
	-076	auxiliary switch block side mounted	3RH2921-1DA11	E00; NQ/090303		
	-077	auxiliary switch block side mounted	3RH2921-1DA11	E00; NQ/090303		
	-078	surge suppressor	3RT2926-1CD00	E00; MRE/090206		connection
	-079	pneumatic delay block	3RT2926-2PR11	E01; G/100512		all contacts
	-080	adapter for contactor	3RT1926-4RD01	E03; GWDM/091008		connection
	-081	plug for contactor	3RT1926-4RE01	E03; GWDM/100406		
	-082	connection from top	3RV2925-5AB	E01		
24	-083	contactor	3RT2027-2AP00	E01; G/090914	screw mounted	all contacts
	-086	logic module	3RA2811-2CW10	E01; LO/090525		electric function
	-087	coil connection module	3RT2926-4RA12	E01; 19.MRZ.2009		connection
snap mounted: mounting rail 7,5mm x 35mm						

Required test values:

Vibration test:

test	frequency range Hz	load duration each axis	category 1 , class B		standard specific. paragraph
			ASD – level $(m/s^2)^2/Hz$	RMS value m/s^2	
long life test	5 – 150Hz	5 h	1,857	7,9	9.1
functional test	5 – 150Hz	10 min	0,0298	1,0	8.1

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LOVAG ilac-MRA DAkkS Deutsche Akkreditierungsstelle D-PL-11055-04-00

Test summary

Certificate No.: 3048d

Shock test:

category	orientation	peak acceleration m/s²	nominal duration ms	standard specific. paragraph
1 B	Vertical Transverse Longitudinal	30 30 50	30	10.5

Test results:

Sample No.	Tests		
	Long life test **according to:** **DIN EN 61373** **part 9.1**	**Functional test** **according to:** **DIN EN 61373** **part 8.1**	**shock** **according to:** **DIN EN 61373** **part 10.5** **1)**
19	passed	passed	50m/s²
20	passed	passed	50m/s²
21	passed	passed	50m/s²
22	passed	passed	50m/s²
23	passed	passed	50m/s²
24	passed	passed	50m/s²

1) shock passed by this test sample, shock duration: 30ms

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LOVAG ilac-MRA DAkkS Deutsche Akkreditierungsstelle D-PL-11055-04-00

Test summary

Certificate No.: 3048d

Test report no.: 10016TMv according to DIN EN 61373 (1999-11) and IEC 61373 (1999-01)

Test samples:

Sample no	Device no 10016TM	Tested device	Order-No.	Date code	mounting	monitoring
1	-001	contactor for railway application	3RT2018-2KF42-0LA0	E01;G/100319	screw mounted	all contacts
	-002	auxiliary switch block side mounted	3RH2911-2DA11	E01;NQ/090923		
	-003	auxiliary switch block side mounted	3RA2911-2DA11	E01;NQ/090925		
2	-004	coupling relay	3RT2017-1KB42	E01; G/100309	snap mounted	all contacts
3	-005	contactor for railway application	3RT2026-2NF30	E01;G/100309	snap mounted	all contacts
	-006	auxiliary switch block front mounted	3RH2911-2HA22	E01;L0091103		
4	-007	coupling relay	3RT2027-1KF40	E01;G/100120	screw mounted	all contacts
5	-008	contactor relay for railway application	3RH2122-2KB40-0LA0	E01;G/100323	snap mounted	all contacts
	-009	auxiliary switch block front mounted	3RH2911-2HA22	E01;L0091029		
6	-010	coupling relay	3RH2122-1KF40	E01;G/100309	screw mounted	all contacts
8	-013	contactor for railway application	3RT2018-2LF42-0LA0	E01;G/100319	screw mounted	all contacts
	-014	auxiliary switch block side mounted	3RH2911-2DA11	E00;NQ/090303		
	-015	auxiliary switch block side mounted	3RA2911-2DA11	E00;NQ/090303		
9	-016	coupling relay	3RT2017-1LB42	E01; G/091126	snap mounted	all contacts
snap mounted: mounting rail 7,5mm x 35mm						

Required test values:

Vibration test:

test	frequency range Hz	load duration each axis	category 1 , class B		standard specific. paragraph
			ASD – level $(m/s^2)^2/Hz$	RMS value m/s^2	
functional test	5 – 150Hz	5 h	1,857	7,9	8.1
long life test	5 – 150Hz	10 min	0,0298	1,0	9.1

Shock test:

category	orientation	peak acceleration m/s^2	nominal duration ms	standard specific. paragraph
1 B	Vertical Transverse Longitudinal	30 30 50	30	10.5

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LOVAG ilac-MRA DAkkS Deutsche Akkreditierungsstelle D-PL-11055-04-00

Test summary

Certificate No.: 3048d

Test results:

Sample No.	Tests		
	Long life test **according to:** **DIN EN 61373** **part 9.1**	**Functional test** **according to:** **DIN EN 61373** **part 8.1**	**shock** **according to:** **DIN EN 61373** **part 10.5** **1)**
1	passed	passed	50m/s²
2	passed	passed	50m/s²
3	passed	passed	50m/s²
4	passed	passed	50m/s²
5	passed	passed	50m/s²
6	passed	passed	50m/s²
8	passed	passed	50m/s²
9	passed	passed	50m/s²

1) shock passed by this test sample, shock duration: 30ms

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LOVAG ilac-MRA DAkkS Deutsche Akkreditierungsstelle D-PL-11055-04-00

Test summary

Certificate No.: 3048d

Test report no.: 13031ENV according to DIN EN 61373 (1999-11) and IEC 61373 (1999-01)

Test samples:

Sample No. 13031EN	Device no	Tested device	Type designation	Date code	mounting	monitoring
001	-001	contactor for railway application	3RT2018-2KF42-0LA0	E04; G/121123	snap mounted	all contacts
	-002	auxiliary switch block side mounted	3RH2911-2DA11	E02; NQ/120312		
	-003	auxiliary switch block side mounted	3RA2911-2DA11	E02; NQ/120312		
002	-004	contactor for railway application	3RT2017-1KB42	E04; G/130130		all contacts
003	-005	contactor relays for railway application	3RH2122-2KB40-0LA0	E04; G/130204		all contacts
	-006	auxiliary switch block front mounted	3RH2911-2HA22	E02; LO130102		
004	-007	contactor relays for railway application	3RH2122-1KF40	E04; G/130130		all contacts
005	-008	contactor for railway application	3RT2018-2LF42-0LA0	E04; G/130206		all contacts
	-009	auxiliary switch block side mounted	3RH2911-2DA11	E02; NQ/120312		
	-010	auxiliary switch block side mounted	3RA2911-2DA11	E02; NQ/120312		
snap mounted: mounting rail 15mm x 35mm						

Required test values:

long life test according to DIN EN 61373 part 9.1 and IEC 61373 part 9.1

test	frequency range Hz	load duration each axis	category 1 , class B		orientation
			ASD – level $(m/s^2)^2/Hz$	RMS value m/s^2	
long life test	5 – 150Hz	5 h	1,857	7,9	Vertical Transverse Longitudinal

functional test according to DIN EN 61373 part 8.1 and IEC 61373 part 8.1

test	frequency range Hz	load duration each axis	category 1 , class B		orientation
			ASD – level $(m/s^2)^2/Hz$	RMS value m/s^2	
functional test	5 – 150Hz	10 min	0,0298	1,00	Vertical Transverse Longitudinal

shock test according to DIN EN 61373 part 10.5 and IEC 61373 part 10.5

test	orientation	peak acceleration m/s^2	nominal duration ms	standard specific. paragraph
shock test	Vertical Transverse Longitudinal	50 50 50	30	10.5

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LOVAG ilac-MRA DAkkS Deutsche Akkreditierungsstelle D-PL-11055-04-00

Test summary

Certificate No.: 3048d

Test results:

Sample No. 13031EN	Tests		
	Long life test **according to:** **DIN EN 61373** **part 9.1**	**Functional test** **according to:** **DIN EN 61373** **part 8.1**	**shock** **according to:** **DIN EN 61373** **part 10.5** **1)**
001	passed	passed	50m/s²
002	passed	passed	50m/s²
003	passed	passed	50m/s²
004	passed	passed	50m/s²
005	passed	passed	50m/s²

1) shock passed by this test sample, shock duration: 30ms

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LOVAG ilac-MRA DAkkS Deutsche Akkreditierungsstelle D-PL-11055-04-00

Test summary

Certificate No.: 3048d

Test report no.: 13074ENV03 according to DIN EN 61373 (2011-04) and IEC 61373 (2010-05)

Test samples:

Sample No. 13074EN	Tested device	Type designation	Date code	mounting	monitoring
011	contactor	3RT2017-2KF42-0LA0	suppressor E02 contactor E04	snap mounted	main contacts
012	contactor	3RT2017-2KF42-0LA0		snap mounted	main contacts
013	contactor	3RT2017-2KF42-0LA0		screw mounted	main contacts
014	contactor relays	3RH2122-1KF40-0LA4		snap mounted	13-14; 21-22; 43-44
015	contactor relays	3RH2122-1KF40-0LA4		snap mounted	13-14; 21-22; 43-44
016	contactor relays	3RH2122-1KF40-0LA4		screw mounted	13-14; 21-22; 43-44
snap mounted: mounting rail 7,5mm x 35mm					

Required test values:

long life test according to DIN EN 61373 part 9.1 and IEC 61373 part 9.1

test	frequency range Hz	load duration each axis	category 1 , class B		orientation
			ASD – level $(m/s^2)^2/Hz$	RMS value m/s^2	
long life test	5 – 150Hz	5 h	0,964	5,72	Vertical Transverse Longitudinal

functional test according to DIN EN 61373 part 8.1 and IEC 61373 part 8.1

test	frequency range Hz	load duration each axis	category 1 , class B		orientation
			ASD – level $(m/s^2)^2/Hz$	RMS value m/s^2	
functional test	5 – 150Hz	10 min	0,0301	1,01	Vertical Transverse Longitudinal

shock test according to DIN EN 61373 part 10.5 and IEC 61373 part 10.5

test	orientation	peak acceleration m/s^2	nominal duration ms	standard specific. paragraph
shock test	Vertical Transverse Longitudinal	30 30 50	30	10.5

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LOVAG ilac-MRA DAkkS Deutsche Akkreditierungsstelle D-PL-11055-04-00

Test summary

Certificate No.: 3048d

Test results:

Sample No. 13074EN	Tests		
	Long life test **according to:** **DIN EN 61373** **part 9.1**	**Functional test** **according to:** **DIN EN 61373** **part 8.1**	**shock** **according to:** **DIN EN 61373** **part 10.5** **1)**
011	passed	passed	50m/s²
012	passed	passed	50m/s²
013	passed	passed	50m/s²
014	passed	passed	50m/s²
015	passed	passed	50m/s²
016	passed	passed	50m/s²

1) shock passed by this test sample, shock duration: 30ms

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LOVAG ilac-MRA DAkkS Deutsche Akkreditierungsstelle D-PL-11055-04-00

Test summary

Certificate No.: 3048d

Test report no.: 13111ENV01 according to DIN EN 61373 (2011-04) and IEC 61373 (2010-05)

Test samples:

Sample No. 13111EN	Device no	Tested device	Type designation	Date code	mounting	monitoring
001	-001	contactor	3RH2122-2LB40-0LA0	E05; G/131118	overhead snap mounted close-packed	13-14; 23-24; 31-32
	-002	Auxiliary switch block front mounted	3RH2911-2HA22	E02; LO130731		11-12; 21-22; 33-34; 43-44
002	-003	contactor	3RH2122-2LB40-0LA0	E05; G/131118		13-14; 23-24; 31-32
	-004	Auxiliary switch block front mounted	3RH2911-2HA22	E02; LO130731		11-12; 21-22; 33-34; 43-44
003	-005	contactor	3RH2122-2LB40-0LA0	E05; G/131118		13-14; 23-24; 31-32
004	-006	contactor	3RH2122-2LB40-0LA0	Laboratory sample	overhead snap mounted	13-14; 23-24; 31-32
	-007	Auxiliary switch block front mounted	3RH2911-2HA22	E02; LO130731		11-12; 21-22; 33-34; 43-44
005	-008	contactor	3RH2122-2LB40-0LA0	Laboratory sample	overhead snap mounted	13-14; 23-24; 31-32
overhead snap mounted: mounting rail 7,5mm x 35mm						

Required test values:

long life test according to DIN EN 61373 part 9.1 and IEC 61373 part 9.1

test	frequency range Hz	load duration each axis	category 1 , class B		orientation
			ASD – level $(m/s^2)^2/Hz$	RMS value m/s^2	
long life test	5 – 150Hz	5 h	0,964	5,72	Vertical Transverse Longitudinal

functional test according to DIN EN 61373 part 8.1 and IEC 61373 part 8.1

test	frequency range Hz	load duration each axis	category 1 , class B		orientation
			ASD – level $(m/s^2)^2/Hz$	RMS value m/s^2	
functional test	5 – 150Hz	10 min	0,0301	1,01	Vertical Transverse Longitudinal

shock test according to DIN EN 61373 part 10.5 and IEC 61373 part 10.5

test	orientation	peak acceleration m/s^2	nominal duration ms	standard specific. paragraph
shock test	Vertical Transverse Longitudinal	30 30 50	30	10.5

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LOVAG ilac-MRA DAkkS Deutsche Akkreditierungsstelle D-PL-11055-04-00

Test summary

Certificate No.: 3048d

Test results:

Sample No. 13111EN	Tests		
	Long life test **according to:** **DIN EN 61373** **part 9.1**	**Functional test** **according to:** **DIN EN 61373** **part 8.1**	**shock** **according to:** **DIN EN 61373** **part 10.5** **1)**
001	passed	passed	50m/s²
002	passed	passed	50m/s²
003	passed	passed	50m/s²
004	passed	passed	50m/s²
005	passed	passed	50m/s²

1) shock passed by this test sample, shock duration: 30ms

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LOVAG ilac-MRA DAkkS Deutsche Akkreditierungsstelle D-PL-11055-04-00

Test summary

Certificate No.: 3048d

Test report no.: 14081ENV02a according to DIN EN 61373 (2011-04) and IEC 61373 (2010-05)

Test samples:

Sample No. 14081EN	Device no	Tested device	Date code	Type designation	mounting	monitoring
401	-100	contactor	E06; G/150109	3RT2016-1KF42-0LA0	screw	L2-T2; L3-T3
	-101	aux. switch block front	E02; LO/141017	3RH2911-1HA13		21-22; 43-44
402	-102	contactor	E06; G/150109	3RT2017-2LF42-0LA0	snap	L1-T1; L3-T3
	-103	aux. switch block front	E02; LO/140218	3RH2911-2FA22		31-32; 43-44
403	-104	contactor	E06; G/150112	3RT2018-4KF42	snap	L2-T2; L3-T3
	-105	aux. switch block front	E02; LO/141125	3RH2911-1HA31		11-12; 43-44

Required test values:

long life test according to DIN EN 61373 part 9.1 and IEC 61373 part 9.1

test	frequency range Hz	load duration each axis	category 1 , class B		orientation
			ASD – level $(m/s^2)^2/Hz$	RMS value m/s^2	
long life test	5 – 150Hz	5 h	0,964	5,72	Vertical Transverse Longitudinal

functional test according to DIN EN 61373 part 8.1 and IEC 61373 part 8.1

test	frequency range Hz	load duration each axis	category 1 , class B		orientation
			ASD – level $(m/s^2)^2/Hz$	RMS value m/s^2	
functional test	5 – 150Hz	10 min	0,0301	1,01	Vertical Transverse Longitudinal

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LOVAG ilac-MRA DAkkS Deutsche Akkreditierungsstelle D-PL-11055-04-00

Test summary

Certificate No.: 3048d

shock test according to DIN EN 61373 part 10.5 and IEC 61373 part 10.5

test	orientation	peak acceleration m/s²	nominal duration ms	standard specific. paragraph
shock test	Vertical Transverse Longitudinal	30 30 50	30	10.5

Test results:

Sample No. 14081EN	Tests		
	Long life test **according to: DIN EN 61373 part 9.1**	**Functional test** **according to: DIN EN 61373 part 8.1**	**shock** **according to: DIN EN 61373 part 10.5 1)**
401	passed	passed	50m/s²
402	passed	passed	50m/s²
403	passed	passed	50m/s²

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LOVAG ilac-MRA DAkkS Deutsche Akkreditierungsstelle D-PL-11055-04-00

Test summary

Certificate No.: 3048d

The tests were carried out on devices, representative for the whole series, fixed on page 1 up to 13 of the product description

The tests were carried out in the ***Type Test Center Siemens AG Amberg***
Werner-von-Siemens-Str. 48, 92220 Amberg
Accredited-No.: ***D-PL-11055-04-00***

The test results are in accordance with the test specification

Remarks

Certificate No.: 3048d

09014TMv03: Test of contactors 3RT2.1... and contactor relays 3RH21... size S00 according to DIN EN 61373 (1999-11) and IEC 61373 (1999-01). The test results are in accordance with the test specification. The test report also covers the recent specifications DIN EN 61373 (2011-04) and IEC 61373 (2010-05)

09015TMv03: Test of contactors 3RT2.2... size S0 according to DIN EN 61373 (1999-11) and IEC 61373 (1999-01). The test results are in accordance with the test specification. The test report also covers the recent specifications DIN EN 61373 (2011-04) and IEC 61373 (2010-05)

10016TMv: Test of contactors 3RT201..., contactor relays 3RH21... size S00 and contactors 3RT202... size S0 for railway application according to DIN EN 61373 (1999-11) and IEC 61373 (1999-01). The test results are in accordance with the test specification. The test report also covers the recent specifications DIN EN 61373 (2011-04) and IEC 61373 (2010-05)

13031ENV: Additional test of contactors 3RT201... and contactor relays 3RH21... size S00 for railway application according to DIN EN 61373 (1999-11) and IEC 61373 (1999-01). All test samples were mounted on mounting rails 15mm x 35mm. The test results are in accordance with the test specification. The test report also covers the recent specifications DIN EN 61373 (2011-04) and IEC 61373 (2010-05)

13074ENV03: Additional test of contactors 3RT201... and contactor relays 3RH21... size S00 for railway application according to DIN EN 61373 (2011-04) and IEC 61373 (2010-05) with new suppressor (E02). The test results are in accordance with the test specification.

13111ENV01: Additional test of contactors 3RH2122-2LB40-0LA0 size S00 for railway application according to DIN EN 61373 (2011-04) and IEC 61373 (2010-05). All test samples were overhead mounted on a mounting rail 7,5mm x 35mm. The test results are in accordance with the test specification.

14081ENV02a: Additional test of contactors 3RT201... and contactor relays 3RH21... size S00 for railway application according to DIN EN 61373 (2011-04) and IEC 61373 (2010-05) with new resistor layer (E07). The test results are in accordance with the test specification.

Amberg, 2015-05-22

Location, Date

Signature
(Authorized representative)
Mr. Körner

Reviewed
(Laboratory manager)
Mr. Bogner

SIEMENS

Prüf-Nr./Q-Nr.: *Certificate No.:* **3131**

Dienststelle: *Department:* **I IA CE CP R&D-VI 4 / Kulzer**

Ort: *Place:* **Amberg** Tag: *Date:* **2012-04-20**

Deckblatt / Cover Page

VDE Prüf- und Zertifizierungsinstitut

Erzeugnis / *Product* **Sirius NG Hilfsschalter und Schütze / Sirius NG Auxilliary switch and conductor**

Typ: *Type:* **3RT2.1, 3RH2, 3RH24...-1, 3RT2.2, 3RT292.-5A**

Hersteller: *Manufacturer:* **Siemens AG, Amberg**

Art der Prüfung / *Type of test:* **Prüfbericht / Test report**

Prüfer / *Tested by:* **J. Postiglione**

Tag der Prüfung / *Date of test:* **2012-03-06**

Prüfort / *Test site:* **Offenbach**

Prüfstelle / *Testing authority* **VDE Offenbach**

Angewandte Prüfbestimmungen / *Test specifications applied:*

DIN EN 60335-1 (VDE 0700):2007-02
EN 60335-1:2002+A11:2004+A1:2004+A12:2006+Corregendum:2006+A2:2006 Abschnitt 30.2
E DIN EN 60335-1/A101 (VDE 0700-1/A76):2009-02 Abschnitt 30.2

Anlage / *Enclosure:*

VDE Prüfbericht 40010-9020-0006/148412 / VDE Test report 40010-9020-0006/148412

Prüfergebnis / *Test results:*

Siehe Anlagen
See Attachment

Gültigkeit (Datum, Gerät) / Validity (date, device):

Bemerkungen / *Remarks:* **Erstellt: 2012-04-20**

Anlagen: Werden nur auf Anfrage verteilt
Attachment: Will be distributed only on demand

Deckblatt ist nicht Bestandteil der Bescheinigung
Cover Page is not part of the Certificate

I IA CE CP R&D-VI 4 M. Kulzer

VDE Prüf- und Zertifizierungsinstitut

VDE

3131

VDE Prüf- und Zertifizierungsinstitut GmbH • Merianstraße 28 • D-63069 Offenbach

Siemens AG I IA CE

Werner-von-Siemens-Straße 48
92220 Amberg

Offenbach, 2012-03-06

Ihr Zeichen	Ihr Schreiben	Unser Zeichen - bitte angeben	Ansprechpartner
	2011-03-22	40010-9020-0006/148412 FG34/df-mak	Frau Dorf Tel (069) 83 06-684 Fax (069) 83 06-716 regina.dorf@vde.com

PRÜFBERICHT
zur Information des Auftraggebers

Test Report for the Information of the applicant

Produkt / *Product* Schütz

Typ / *Type*
SIRIUS S00 3RT2.1 (Schütze)
SIRIUS S00 3RH2 (Hilfsschütze)
SIRIUS S00 3RH24...-1 (verklinkte Hilfsschütze)
SIRIUS S0 3RT2.2 (Schütze)
SIRIUS S0 3RT292.-5A... (Ersatzspule)

Dieser Prüfbericht enthält das Ergebnis einer einmaligen Untersuchung an dem zur Prüfung vorgelegten Erzeugnis. Ein Muster dieses Erzeugnisses wurde geprüft, um die Übereinstimmung mit den nachfolgend aufgeführten Normen bzw. Abschnitten von Normen festzustellen.
Die Prüfung wurde durchgeführt vom 2011-05-10 bis 2011-07-04.

This test report contains the result of a singular investigation carried out on the product submitted. A sample of this product was tested to found the accordance with the thereafter listed standards or clauses of standards resp. The testing was carried out from 2011-05-10 to 2011-07-04.

Geschäftsführer
Dipl.-Ing./Dipl.-Kfm. Wilfried Jäger
Merianstrasse 28
D-63069 Offenbach
Tel.: +49 (0) 69 83 06-0
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E-mail: vde-institut@vde.com
http://www.vde.com

Gerichtsstand:
Offenbach am Main
HRB 43618
USt.-IdNr.: DE261922990
Steuer-Nr.: 04425092566

Bankkonto
Commerzbank AG
BLZ 500 800 00
Kto.Nr.: 198 027 000
S.W.I.F.T.-Code:
DRES DE FF XXX
IBAN
DE 91500800000198027000

Benannte Stelle nach dem Produktsicherheitsgesetz (ProdSG) und der EMV-Richtlinie 2004/108/EG. Akkreditiert nach DIN EN ISO/IEC 17020, 17021, 17025 und DIN EN 45011. Anerkannte Prüf- und Zertifizierungsstelle für internationale (IECEE und IECQ) und europäische Zertifizierungssysteme (CCA, HAR, ENEC).

Der Prüfbericht berechtigt Sie nicht zur Benutzung eines Zertifizierungszeichens des VDE und berücksichtigt ausschließlich die Anforderungen der unten genannten Regelwerke.

The test report does not entitle for the use of a VDE Certification Mark and considers solely the requirements of the specifications mentioned below.

Wenn gegenüber Dritten auf diesen Prüfbericht Bezug genommen wird, muss dieser Prüfbericht in voller Länge an gleicher Stelle verfügbar gemacht werden.

Whenever reference is made to this test report towards third party, this test report shall be made available on the very spot in full length.

Aufgabe

Prüfung der Feuerbeständigkeit an Schützen zur Verwendung in Geräten für den unbeaufsichtigten Betrieb.

Unstimmigkeiten bei den Materialbezeichnungen und den Artikelnummern des Prüfberichts mit dem VDE-Aktenzeichen 40010-9020-0006/108623 vom 2010-03-31 erforderten die erneute Prüfung einzelner Teile.

Prüfgrundlage

DIN EN 60335-1 (VDE 0700-1):2007-02
EN 60335-1:2002 + A11:2004 + A1:2004 + A12:2006 +
Corrigendum:2006 + A2:2006 Abschnitt 30.2
und E DIN EN 60335-1/A101 (VDE 0700-1/A76):2009-02 Abschnitt 30.2

Prüfergebnis

siehe Anlage 1 (5 Seiten) und Anlage 2 (7 Seiten)

Anmerkung

Die Materialbezeichnungen entsprechen den Angaben des Auftraggebers.

VDE Prüf- und Zertifizierungsinstitut GmbH
Fachgebiet FG34

i. A.
Regina Dorf
Reviewer

i. A.
Alessio Postiglione
Test Engineer

Polski Rejestr Statków

TYPE APPROVAL CERTIFICATE

This is to certify that the undernoted product type

Contactors and Contactor Relays

SIRIUS Innovation
3RT2.1, 3RT2.2, 3RT2.3, 3RH2

Accessories: 3RA27, 3RA28, 3RH29, 3RT19, 3RT29, 3RV29

issued to

Siemens AG GWA
Werner-von-Siemens-Str. 48
D-92220 Amberg
Germany

is approved as complying with the requirements of the

PRS Rules for Classification and Construction of Sea-going Ships.

Certificate No. TE/2122/883241/16

Expiry date 2021-10-27

Issued at

Gdańsk, 2016-10-28

Signature

Polski Rejestr Statków S.A.
al. Gen. Józefa Hallera 126
80-416 Gdańsk, Poland

Tel. +(48) 58 346 17 00
Fax +(48) 58 346 03 92

e-mail: mailbox@prs.pl
www: http://www.prs.pl/

Continued overleaf

Technical data

Rated insulation voltage U_i: 690 V
Ambient Temperature: +60°C
Degree of protection: IP20

More: according to Siemens Catalogue IC 10 Edition 2016.

Basis of approval

1. The technical documentation approved by PRS on 2011-03-03 and 2016-10-21.
2. The inspection of the production process and quality control system carried out in February, 2008.
3. Reports from environmental tests carried out acc. to PRS Publication 11/P.
4. The Quality Management System Certificate No. 001108 QM08 issued by *DQS GmbH.*
5. PRS Survey Report No. TM/PU/10/16 issued on 2016-09-02.

Additional conditions and remarks:

1. For the ambient temperature +45°C the rated current is to be corrected according to Manufacturer's data.

Notes

1 The approval is valid only when the product is used in accordance with the manufacturer's conditions.
2 Changes of product design and materials which influence product quality are to be agreed with PRS.
3 Type Approval Certificate will be cancelled in the case of dissatisfactory service results, modifications made in the product structure or materials without PRS' consent, not advising PRS of the manufacturer's name change.

In carrying out survey activities Polski Rejestr Statków S.A. (PRS) makes efforts to ensure that they are conducted with conscientiousness and the principles of good practice, with due regard paid to the state-of-the-art technology. However, neither PRS nor its Surveyors shall bear any civil liability for damage, loss or expense which may arise in consequence or as the outcome of conducting these activities, or the result of information or advice given to the customer by PRS, irrespective of whether or not such were the result of neglect, error or lack of proper information. Nevertheless, should the customer prove that such damage, loss or expense was due to negligence on the part of the Society or its Surveyors, PRS will pay compensation to the customer for his loss up to but not exceeding the amount due for services provided, forming the basis of the customer's claim. In no cases will PRS be responsible for indirect losses (loss of prospective profits, loss of contract, inability to undertake activities, etc.) sustained by the customer and associated with the executing of a commission by PRS.

SIEMENS

A0210

Confirmation

确认书

Product identification:
产品

DF CP Products, DF CP 产品

3RA, 3RB, 3RE, 3RF, 3RG, 3RH, 3RK, 3RM, 3RN, 3RP,3RQ, 3RR, 3RS, 3RT, 3RU, 3RV, 3RW, 3RX, 3SB, 3SE, 3SF, 3SK, 3SU1, 3SX, 3TB, 3TC, 3TD, 3TE, 3TF, 3TG, 3TH, 3TK, 3TS, 3TX, 3TY, 3UA, 3UC, 3UF, 3UG, 3US, 3UL, 3UW, 3UX, 3VS, 3VU, 3ZY, 4A, 4AM, 4E, 4FD, 6BK, 6GK, 7PU, 7PV, 8WD, LZS, LZX, 7MH,4FK, 4FL

Manufacturer:
厂商

Siemens AG, DF CP

Address:
地址

DE-92220 Amberg

Chinese Quality Check Mark
质量检验合格证明

Hereby we confirm that all the Products from DF CP are compliant with the Chinese Quality Law. Main demand of this law is that the product quality shall be inspected and acceptable and that the product complies with the standard and requirements for safeguarding the health.
我们特此证明DF CP的所有产品符合《中国产品质量法》。该法主要要求是产品质量经过检验合格，产品符合标准和保障人身健康的要求。

Siemens Aktiengesellschaft
DF CP R&D
92220 Amberg

2016-09-26 — Amberg
date of issue — place

Fritz Royer
Head of Project Management Mechatronics

Markus Meier
Head of Project Management Electronics

This confirmation does not imply any guarantee of quality or durability. The safety instructions of the accompanying product documentation shall be observed.
Diese Bestätigung enthält keine Beschaffenheits- oder Haltbarkeitsgarantie. Die Sicherheitshinweise der mitgelieferten Produktdokumentation sind zu beachten.

Siemens Aktiengesellschaft: Chairman of the Supervisory Board: Gerhard Cromme; Managing Board: Joe Kaeser, Chairman, President and Chief Executive Officer; Roland Busch, Lisa Davis, Klaus Helmrich, Janina Kugel, Siegfried Russwurm, Ralf P. Thomas; Registered offices: Berlin and Munich, Germany; Commercial registries: Berlin Charlottenburg, HRB 12300, Munich, HRB 6684; WEEE-Reg.-No. DE 23691322

CERTIFICATE OF COMPLIANCE

Certificate Number	20160923 - E44653
Report Reference	E44653 - 19961002
Issue Date	2016-SEPTEMBER-23
Issued to:	SIEMENS AG DF CP R&D V 3 WERNER-VON-SIEMENS-STRASSE 48 92220 AMBERG GERMANY
This is to certify that representative samples of	COMPONENT - AUXILIARY DEVICES (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:	UL 508 and CSA C22.2 No. 14-13 ,Industrial Control Equipment
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.

The UL Recognized Component Mark generally consists of the manufacturer's identification and catalog number, model number or other product designation as specified under "Marking" for the particular Recognition as published in the appropriate UL Directory. As a supplementary means of identifying products that have been produced under UL's Component Recognition Program, UL's Recognized Component Mark: , may be used in conjunction with the required Recognized Marks. The Recognized Component Mark is required when specified in the UL Directory preceding the recognitions or under "Markings" for the individual recognitions.

Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for use as components of complete equipment submitted for investigation rather than for direct separate installation in the field. The final acceptance of the component is dependent upon its installation and use in complete equipment submitted to UL LLC.

Look for the UL Certification Mark on the product.

Bruce Mahrenholz, Director North American Certification Program

UL LLC

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CERTIFICATE OF COMPLIANCE

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Report Reference	E44653 - 19961002
Issue Date	2016-SEPTEMBER-23

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

Product Covered:

USR, CNR - Component EMC Protective Unit, Type No. 3RT19 followed by 16, 26, 36 or 56 followed by -1A, -1B, -1C, -1D, -1E, -1F, -1J, -1L, -1N or -1T, followed by A through T, may be followed by additional suffixes.

USR, CNR - Component Coil Assembly, Resistor Type No. 5061013 followed by additional suffixes

USR, CNR - Component Coil Assembly, Resistor Type No. 3RT1916-1GA00

USR, CNR - Component Coil Assembly, Control Unit Type No. 3RK1903-0CG00

USR, CNR - Component EMC Unit, Type No. 3RT29 followed by 16, 26, 36, or 46, followed by -1A, -1B, -1C, -1D, -1E, 1G, -1J, -1L or -1M followed by A through T, may be followed by additional suffixes.

USR, CNR - Component EMC Unit, Type No. A5E35106044 followed by 001.

USR, CNR - Component Resistor A8E56200700, or A5E32671616, followed by additional suffixes.

USR, CNR - Component Resistor A5E34834866, followed by additional suffixes.

USR, CNR - Component LED Display 3RT19 or 3RT29 followed by 26 followed by -1QT00

USR, CNR - Component Coil Assembly, Resistor Type No. 3RT2936-1GA00

General:

These devices are intended to be installed on this manufacturers Listed and Recognized Contactors and Relays Type 3RT and 3RH covered in File E31519 and E44653.

The units are snapped to the devices by plug-and-socked connection to the coil terminals.

Bruce Mahrenholz, Director North American Certification Program

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CERTIFICATE OF COMPLIANCE

Certificate Number	20160923 - E44653
Report Reference	E44653 - 19961002
Issue Date	2016-SEPTEMBER-23

Ratings:

EMC Protective Unit, Types 3RT1916, 3RT1926, 3RT1936, 3RT1956, 3RT2916, 3RT2926, 3RT2936, 3RT2946, or A5E35106044.

24 through 600 V ac
12 through 250 V dc
For details see nomenclature breakdown.

Coil Assembly Resistor, Type 5061013
17 through 275 Vdc

Coil Assembly Resistor, Type 3RT1916-1GA00
180 through 255 V ac

Coil Assembly Resistor, Type 3RT2936-1GA00
24 V dc

Coil Assembly Control Unit Type 3RK1903-0CG00
12 through 250 V dc

Resistors, Types A8E56200700, A5E32671616 and A534834866
17 through 275 Vdc

LED Module Type 3RT19 or 3RT29:
24 to 240 V ac/dc

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CERTIFICATE OF COMPLIANCE

Certificate Number	20160923 - E44653
Report Reference	E44653 - 19961002
Issue Date	2016-SEPTEMBER-23

NOMENCLATURE BREAKDOWN:

3RT19	16	-1A	B	..
I	II	III	IV	V

I. Basic Type, EMC Protective Unit

II. Size

16 - suitable for use with devices S00
26 - suitable for use with devices S0
36 - suitable for use with devices S2 and S3
56 - suitable for use with devices S6, S10 and S12

III. Type of components

-1A - special manufacturer's identification
-1B - varistor without LED
-1C - RC element with or without LED
-1D - diode without LED
-1E or -1T - diode combination (diode + zener diode) without LED
-1F - zener diode without LED
-1J - varistor with LED
-1L - diode with LED
-1N – zener diode combination

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
H -	---	12 through 250 V dc (for type –1EH only)
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 -	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



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CERTIFICATE OF COMPLIANCE

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Report Reference	E44653 - 19961002
Issue Date	2016-SEPTEMBER-23

R -	---	24 Vdc
S -	24 through 70 V ac	24 through 70 V dc
T -	70 through 250 V ac	70 through 250 V dc

V. .. - Suffix letters and/or numbers specifies Manufacturer's identification.

5061013 - -81
I II

I. Basic Type

5061013 - For special application for contactors Type 3RT1.1 and contactor relays Type 3RH1 with resistors (2x91 ohms to 2x8200 Ohms or 1x180 Ohm to 1x16 kOhm, each 3 watt).

II. Ratings

- .. - rated 17 through 275 Vdc

NOMENCLATURE BREAKDOWN

3RT29	16	-1A	B	..
I	II	III	ÎV	V

I. Basic Type, EMC Unit

II. Size

16 - suitable for use with devices S00
26 - suitable for use with devices S0
36 - suitable for use with devices S2 (For use with S2 and S3 for Types 3RT2936-1B, -1J and -1E only)
46 – suitable for use with devices S3

III. Type of components

-1A - special manufacturer's identification
-1B - Varistor without LED
-1C - RC element with or without LED
-1D - diode without LED
-1E - diode combination (diode + Zener diode) without LED
-1G – resistor without LED
-1J - Varistor with LED
-1L - diode with LED
-1M - diode combination with LED

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CERTIFICATE OF COMPLIANCE

Certificate Number	20160923 - E44653
Report Reference	E44653 - 19961002
Issue Date	2016-SEPTEMBER-23

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 -	---	12 through 250 V dc
J -	24 through 48 V ac	12 through 24 V dc
K -	48 through 127 V ac	24 through 70 V dc
L -	127 through 240 V ac	70 through 150 V dc
M -	---	24 through 70 V dc
N -	---	70 through 150 V dc
P -	---	150 through 250 V dc
R -	---	24 Vdc
S -	---	30 through 250 V dc

V. .. - Suffix letters and/or numbers specifies Manufacturer's identification.

A8E56200700	085
I	II

I. Basic Type

A8E56200700, A5E32671616, A5E34834866

For special application for contactors Type 3RT2.1 and contactor relays Type 3RH2 with resistors

II. Ratings

- rated 17 through 275 Vdc*

A5E35106044	001
I	II

I. Basic Type:

A5E35106044 - For special application for contactors Type 3RT2.2 with diode combination

II. Ratings:

001 - Rated 24 Vdc

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CERTIFICATE OF COMPLIANCE

Certificate Number 20160923 - E44653
Report Reference E44653 - 19961002
Issue Date 2016-SEPTEMBER-23

3RT29	26	-1QT00
I	II	III

I. Basic Type
3RT19 – Suitable for use with 3RH1, 3RT1
3RT29 – Suitable for use with 3RH2, 3RT2

II. Manufacturer's Identification
26 - Manufacturers Identification

III. Display
–1QT00 – LED display indicator module.

Bruce Mahrenholz, Director North American Certification Program

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