SIEMENS

Prüf-Nr./Q-Nr.: *Certificate No.:* **2157h**

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

Ort: *Place:* **Amberg** Tag: *Date:* **06.09.2012**

Anlagen: *Enclosures:* **LOVAG Certificate No. DE 0065**
Test Summary 2157h

Prüfbescheinigung / *Test – Certificate*

Erzeugnis / *Product:* **Contactor**

Typ: *Type:* **3RT103.**

Tech. Daten: *Specification:* $U_{e\ max}$ = 690 V ac
$I_{e\ AC\text{-}3\ max}$ = 50 A
$I_{e\ AC\text{-}1\ max}$ = 60 A

Hersteller: *Manufacturer:* **Siemens AG**
I IA CE

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

Prüfer / *Tested by:* **Mr. Stadlbauer**

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

Angewandte Prüfbestimmungen / *Test specifications applied:*
IEC 60947-4-1, Edition 3.0: 2009-09

Durchgeführte Prüfungen / *Tests conducted:*
See Test Summary

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

Bemerkungen / *Remarks:* **Issued: 16.06.1997**

This Test Certificate covers contactors SIRIUS S2 with ac or dc operating system and any accessories.
For top mounted auxiliary contact blocks refer to Test Certificate No. 2145 and for side mounted auxiliary contact blocks refer to Test Certificate No. 2146.
Index e dated 2011-02-22: Editorial corrections
Index f dated 2011-03-09: LOVAG Certificate No. DE 0065 added
Index h dated 2012-09-06: Accessories added.

Unterschrift / *Signature*

Gegengezeichnet / *Released by:*

i.V. *I IA CE CP R&D-VI Mr. Schweiger*

i.V. *I IA CE CP R&D-EM Mr. Knauer*

SIEMENS AG **Industry Sector**

S. Russwurm (Head)

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DAkkS Deutsche Akkreditierungsstelle D-PL-11055-04-01

Certificate no.: 2157h

Test summary

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

Test device: ***Motor - contactor***

Type: ***3RT103.., 3RT1936-4BB31***

Test specification: ***IEC 60947-4-1 (09-2009)***

Test report No.: ***96007T2L + 02075TMI + 07096TMI + 11052TQI05 + 11076TMI***

Test report no.: 96007T2L

Test-sequence and sub-clause	**Test**	**Tested Device**
IEC 60947-4-1	(05-1990, incl. corr. 12-1991, amd.1 11-1994, amd.2 08-1996)	
Test-sequence I		
8.3.3.3	Verification of temperature-rise	3RT1034-1BM40 3RT1035-1BM40 3RT1036-1BM40
8.3.3.2	Verification of operating limits	3RT1034-1BM40 3RT1035-1BM40 3RT1034-1BB40 3RT1035-1BB40 3RT1034-1AS00 3RT1035-1AS00 3RT1034-1AB00 3RT1035-1AB00
8.3.3.4	Verification of dielectric properties	3RT1034-1BM40 3RT1035-1BM40 3RT1036-1BM40
Test-sequence II		
8.3.3.5 8.3.3.6	Rated making and breaking capacities Verification of operational performance	3RT1034-1BB40 3RT1034-1AP00 3RT1035-1BB40 3RT1035-1AP00 3RT1036-1BB40 3RT1036-1AP00
Test-sequence III		
8.3.4	Performance under short-circuit conditions	3RT1034-1BB40 3RT1034-1AP00 3RT1035-1BB40 3RT1035-1AP00 3RT1036-1BB40 3RT1036-1AP00

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Certificate no.: 2157h

Continuation listing

Test-sequence and sub-clause	Test	Tested Device
Test-sequence IV 8.3.5	Verification of ability to withstand overload currents	3RT1034-1AP00 3RT1035-1AP00 3RT1036-1AP00
Test-sequence V 8.2.4	Verification of mechanical properties of terminals	3RT1034-1AP00

Test report no.: 07096TMI

Test-sequence and sub-clause	Test	Tested Device
IEC 60947-4-1 Test-sequence I 9.3.3.4	(12-2002) + Amd.2 (06-2005) Verification of dielectric properties	3RT1035-1BM40+ 3RH1921-1EA11, 3RH1921-1FA22

Test report no.: 11052TQI05

Test-sequence and sub-clause	Test	Tested Device
IEC 60947-4-1 6.2 6.3 8.1	(09-2009) Marking Instruction for installation, operation and maintenance Construction requirements	3RT103..

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Certificate no.: 2157h

Continuation listing

Test report no.: 11076TMI

Seq. I			
Sample No.	**Test sample**	**Date code**	**Rating**
11076TM100	3RT1035-1AP00 3RT1936-4BB31 3RH1921-1FA10	G/110513/E05 EYA/11/05/30 E01 LO 110505 S74	I_{th}=180A, U_i=690V, U_{imp}=6kV
Seq. V			
Sample No.	**Test sample**	**Date code**	**Rating**
11076TM001 up to 11076TM016	3RT1936-4BB31 3RT1035-1AP00	EYA/11/05/30 E01 G/110513/E05	Terminal test
11076TM015	3RT1936-4BB31 3RT1035-1AP00	EYA/11/05/30 E01 G/110513/E05	IP20

The tests were carried out on devices, representative for the whole series, fixed on page 3

The tests were carried out in the ***Prüflaboratorium der Siemens AG I IA CE Amberg***
Werner-v.-Siemens-Str. 48, 92220 Amberg
Accredited-No.: D-PL-11055-04-01

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Certificate no.: 2157h

Nomenclature Breakdown

Series: 3RT103

3RT10	34	-	1	A	B0	1
I	**II**		**III**	**IV**	**V**	**VI**

I Basic type designation 3RT10, motor contactor

II Power rating:

33 - 11 kW
34 - 15 kW
35 - 18,5 kW
36 - 22 kW

III Type of terminals:

1 - screw terminal
3 - cage clamp for the auxiliary terminal

IV Operating system:

A - ac operating system
B - dc operating system
C - ac operating system with EMC protective unit - varistor
D - dc operating system with EMC protective unit - varistor
E - ac operating system with EMC protective unit - RC element
F - dc operating system with EMC protective unit - diode
H - dc operating system with extended operating voltage range
J - dc operating system with extended operating voltage range, with EMC protective unit - diode
K - dc operating system with extended operating voltage range, with EMC protective unit - varistor

V Rated operating voltage:

A0 to W4 - 24 V through 600 Vac or 12 V through 250 Vdc

VI Auxiliary contact arrangement:

0- no auxiliary contact
1- 1 NO
2- 1 NC
3- 1 NO + 1 NC top mounted
4- 2 NO + 2 NC top mounted
5- 1 NO + 1 NC side mounted
6- 2 NO + 2 NC side mounted
8- manufacturer`s identification
9- customer`s identification

Accessory:
3RT1936-4BB31 3-pole paralleling link for contactors 3RT103..

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Akkreditierungsstelle
D-PL-11055-04-01

Certificate no.: 2157h

Remarks:

Test report no.: 02075TMI

This test report was made for declaration of increasing the current I_{eAC-1} from 55A up to 60A for the series of contactor 3RT1036-..

Test report no.: 07096TMI

According to IEC 60947-4-1 (12-2002) + amd. 2 (06-2005) the differences in the standard, compared to existing tests, for the series 3RT1.3.. were tested.
The series 3RT1.3.. passed the tests according to IEC 60947-4-1 (12-2002) + amd. 2 (06-2005):
- 9.3.3.4 Verification of dielectric properties for Ue=690V / Uimp=6kV

2010-09-30 Note:

According to IEC 60947-4-1 (09-2009) the requirements of the standard are also covered by existing tests for the series 3RT1.3..

Test report no.: 11076TMI

This test report is for 3-pole paralleling link 3RT1936-4BB31.

Location, Date	Signature (Authorized representative) Mr. Stadlbauer	Reviewed (Assistant laboratory manager) Mr. Prechtl-Schöpf
Amberg, 2011-10-12		

ALPHA

Gesellschaft zur Prüfung und
Zertifizierung von Niederspannungsgeräten e.V.

LOVAG

Certificate

of Conformity

LOVAG-Certificat No.: DE 0065

This Certificate applies only to the apparatus testet. The responsibility for conformity of any apparatus having the same designation with that testet rests with the manufacturer or responsible vendor.

This certificate has been prepared according to LOVAG (Low Voltage Agreement Group) Objectives Operating Principles of mutual recognition. The responsible certification body as a member of LOVAG issues a Certificate of Conformity with the above mentioned Standard(s) following the exclusive use of LOVAG Test instruction wherever applicable.

Only integral reproduction of this Certificate or reproductions of this page accompanied by any page(s) on which are stated the tests performed and the assigned rated characteristics of the apparatus tested, are permitted whithout written permission from the LOVAG Signatory responsible for this Certificate.

Apparatus

Motor-contactor series 3RT103
3 poles
Rated frequency 50/60 Hz

Designation Type

3RT1034-.. 3RT1035-.. 3RT1036-..

Manufacturer or responsible vendor

Siemens AG
Werner-von-Siemens-Straße 48
D-92220 Amberg

Tested for: Siemens AG ASI 2 SV Amberg

Tested by: ALPHA REGISTERED LABORATORY ID CODE D06

The apparatus, constructed in accordance whith the description mentioned in the Test Report listet in this Certificate has been subjected to the series of proving tests in accordance with

IEC 947-4-1 (1990-05) and corr.(Dec. 91)
EN 60947-4-1 (1992-01)
Test sequences I; II; III; IV; V

The results are shown in the Test Report in accordance to LOVAG. The values obtained and the general performance are considered to comply with the above Standard(s) and to justify the characteristics assigned by the manufacturer as stated below

Rated operational voltage U_e(V)	Rated operational current I_e(A) for utilization category AC-3		
Type	3RT1034-..	3RT1035-..	3RT1036-..
400	32	40	50
500	32	40	50
690	20	24	24

This document includes Report No.: 96007T2L
Issue Date : 23.05.1997

Responsible Certification Body: ALPHA-Zertifizierungsstelle
Gartenstraße 34a
D 60596 Frankfurt am Main

Deutscher Akkreditierungs Rat
DAR
DAT-ZE-001/92-01

Gustav Rode
Authorized Signature

Date: 20.01.1998

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