

SIEMENS

Prüf-Nr./Q-Nr.: **1593c**
Certificate No.:

Dienststelle: **I BT LV GC R&D TC Weiss**
Department:

Ort: **Amberg** Tag: **2010-03-11**
Place: Date:

Anlagen: **Test Summary**
Enclosures:

Prüfbescheinigung / Test - Certificate

Erzeugnis / Product:

Switch disconnecter fuse

Typ: **3KL53 / 3KM53**
Type:

Tech. Daten: **U_i=690 V**
Specification: **U_{emax}=690VAC/440VDC**
I_{emax}=160 A

Hersteller: **Siemens AG**
Manufacturer: **I BT LV**

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

Prüfer / Tested by: **Mr. Lambert**

Labor / Laboratory: **I BT LV GC R&D MA L**

Angewandte Prüfbestimmungen / Test specifications applied:

IEC 60947-3: (08/2008) / IEC 60947-1 (06/2007)
DIN EN 60947-3: (02/2010) / DIN EN 60947-1: (04/2008)

Durchgeführte Prüfungen / Tests conducted:

Test Sequences IEC 60947-3 I, II, III, IV, V / IEC 60947-1 (8.2.1.1.1)

Prüfergebnis / Test results:

All requirements of the test specification are met.

Bemerkungen / Remarks:

Issued: 1993-12-13

This test certificate is valid for all variations of type 3KL53 and 3KM53

Index a: Application of new edition of IEC 60947-3; Tests seq V added; 4th pole added

Index b: Addition of BS88 fuses in the test report 1593a

Index c: Standards updated, plastic material requirements are met

Unterschrift / Signature

Gegengezeichnet / Released by:



I BT LV GC R&D MA Wilhelm



I BT LV QM Lösche

SIEMENS AG

Siemens Aktiengesellschaft: Chairman of the Supervisory Board: Gerhard Cromme
Managing Board: Peter Loescher, Chairman, President and Chief Executive Officer; Wolfgang Dehen, Heinrich Hiesinger, Joe Kaeser, Barbara Kux, Hermann Requardt, Siegfried Russwurm, Peter Y. Solmssen
Registered offices: Berlin and Munich; Commercial registries: Berlin Charlottenburg, HRB 12300, Munich, HRB 6684
WEEE-Reg.-No. DE 23691322

Industry Sector

Test summary

Certificate no.: 1593c

Manufacturer: **Siemens AG I BT LV**
Werner-von-Siemens-Str. 29, 93413 Cham

Test device: **Switch disconnecter fuse**

Type: **3KL53 / 3KM53**

Test specification: **IEC 60947-3 (08-2008) / IEC 60947-1 (06/2007)**

Test report No.: **1593a / 1593a-01**

| Test-sequence and sub-clause | Test | Device |
|--|---|---------------------------|
| IEC 60947-3 Test-sequence I 8.3.3.1 8.3.3.2 8.3.3.3 8.3.3.4 8.3.3.5 8.3.3.6 8.3.3.7 | Temperature-rise Dielectric properties Making and breaking capacities Dielectric verification Leakage current Temperature-rise verification Strength of actuator mechanism | see test report: 1593a |
| Test-sequence II 8.3.4.1 8.3.4.2 8.3.4.3 8.3.4.4 | Operational performance Dielectric verification Leakage current Temperature-rise verification | see test report: 1593a |
| Test-sequence III 8.3.5.1 8.3.5.2 8.3.5.3 8.3.5.4 8.3.5.5 | Short-time withstand current test Short-circuit making capacity test Dielectric verification Leakage current Temperature-rise verification | see test report: 1593a |
| Test-sequence IV 8.3.6 8.3.6.2.1a) 8.3.6.2.1b) 8.3.6.3 8.3.6.4 8.3.6.5 | Conditional short-circuit current Fuse protected short-circuit withstand Fuse protected short-circuit making Dielectric verification Leakage current Temperature-rise verification | see test report: 1593a |
| Test-sequence V 8.3.7.1 8.3.7.2 8.3.7.3 8.3.7.4 | Overload test Dielectric verification Leakage current Temperature-rise verification | see test report: 1593a |

| | | |
|--------------------|----------------|------------------------------|
| IEC 60947-1 | | |
| 8.2.1.1.1 | Glow Wire test | see test report: 1593a-01 |

The tests were carried out on devices, representative for the whole series.

The tests were carried out in the

Testlab Siemens AG | BT LV GC R&D MA L Amberg
Werner-von-Siemens-Str. 48, 92220 Amberg

Amberg, 2010-03-15
Location, Date

M. Soukup Schreckinger
Signature Reviewed
Authorized representative Laboratory manager
Soukup Schreckinger