

Prüfbescheinigung / Test - Certificate

Erzeugnis / Product:

Switch disconnector

Typ: **3LD21 / 3LD22**
Type:

Tech. Daten: **U_i=690 V / I_{th}=25/32 A**
Specification: **I_e AC3=16/25A/400V**
I_e AC23=18/23A/400V

Hersteller: **Sontheimer**
Manufacturer:

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

Prüfer / Tested by: **div.**

Labor / Laboratory: **ALPHA registered**
Testing Laboratory D 006
Siemens AG, Amberg

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, IV / IEC 60947-1 (8.2.1.1.1)

Prüfergebnis / Test results:

All requirements of the test specification are met.

Bemerkungen / Remarks:

Issued: 1999-08-03

For auxilliary switches see test certificate No. 2769

Index a: tests for enclosure class IP65 added

Index b: tests for enclosure class IP67 for types 3LD2144-0TF51(53)-ZA04 added

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

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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.: 2403c

Manufacturer: **Sontheimer Nürnberg**
 Test device: **Switch disconnecter**
 Type: **3LD21 / 3LD22**
 Test specification: **IEC 60947-3 (08-2008) / IEC 60947-1 (06/2007)**
 Test report No.: **DE1-35204 / 2403c-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: DE1-35204
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: DE1-35204
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: DE1-35204
IEC 60947-1 8.2.1.1.1	Glow Wire test	see test report: 2403c-01

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

Prüflaboratorium der Siemens AG I IA CE Amberg
Werner-von-Siemens-Str. 48, 92220 Amberg
Accredited-No.: **DAT-P-026/92-03**

Testlab Siemens AG I 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