CERTIFICATE

Product Safety

Reference No./pos	**9639040/01**
Product	**Switches, others (IEC 947)**
Certificate holder/ manufacturer	**A Sontheimer GMBH & Co KG** **Postfach 31 01 52** **DE-8500 Nürnberg 31** **GERMANY**
Type designation	**LT63**
Technical data	**RATED VOLTAGE: 400 V** **RATED CURRENT: 44 A** **AC22: 63A 690V. AC23: 44A 400V and 22A 690V.**
The product complies with the standard(s)	**EN 60947-3:1991 (IEC 947-3, First edition:1990) and** **EN 60947-1:1991 (IEC 947-1, First edition:1988)**
Date of expiry	**31 December 2006**

Terms and additional information overleaf and in Appendix 1.

Stockholm
16 December 1996

SEMKO AB
Product Certification

Owe Richardson

SEMKO
An Inchcape
Testing Services Company

SEMKO PRODUCT INFORMATION LT 63

An Inchcape
Testing Services Company

a)	Name or trade mark	Sontheimer
b)	Type reference	LT 63
c)	Marking with publication	See certificate
d)	Rated operational voltage	690 V
e)	Utilization category	AC22A 690V 63A AC23A 690V 22A 400V 44A
f)	Rated frequency	50 / 60 Hz
g)	Rated duty	Eight hour duty (continuos duty)
h)	Making and breaking capacities	AC22 / AC23
i)	Rated insulation voltage	1000V AC
j)	Rated impulse withstand voltage	6000V
k)	Pollution degree	3
l)	Conditional short-circuit current Type and rating of short-circuit protective device	15kA 690V, SCPD 63A time lag Co-ordination: 2
m)	Max and min cross-section of conductors	2,5-16 mm² (solid, stranded and flexible)
o)	Materials	
	Material group	III
	Glow-wire	650 °C
	Ball-pressure	125 °C
	Copper analysis	>60 %
	Resistance to corrosion	OK

Applicant	:	**Sontheimer Elektroschaltgeräte GmbH** **Laufamholz-Strasse 370-372** **D-90482 Nürnberg** **Germany**
Application date	:	**99-04-19**
Order number	:	**99.2718.02-KRQ/IBA**
Subject	:	**partially type test of switch-disconnectors**
Tradename	:	**Sontheimer (Siemens)**
Types	:	**switch-disconnectors** : **LT63 (3LD25)** **LT80**
		with or without:
		- **neutral contactblock** : **NVG/80 (3LD9250-0)**
		- **N/PE terminalblock** : **N/PE 80 (3LD9250-2)**
		- **auxiliary contactblock(s)** : **report 99.2718.04**
		NO-contact : **H.10/80 (3LD9250-3)**
		NC-contact : **H.01/80 (3LD9250-4)**
		NO + NC-contact : **H.11/80 (3LD9250-5)**

Arnhem, **99-06-30**

Manufacturer/factory-location:
Sontheimer Elektroschaltgeräte GmbH, Laufamholz-Strasse 370-372,
D-90482 Nürnberg, Germany

Test requirements	:	**EN 60947-3:1999, sequences I and II**
Conclusion	:	**as far as investigated the products comply with the specified requirements, except for the test of 8.3.3.7. Strength of Actuator Mechanism**
Tested by	:	**P. Patijn**
Checked by	:	**L.J.W. van Megen**

Products may only be provided with an approval mark if the relevant conditions have been fulfilled.

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Test item particulars:		
- method of operation	:	**semi independent manual operation**
- switching positions	:	**2 (on and off)**
- number of poles	:	**3-poles** **4-poles (with neutral contactblock)**
- kind of current	:	**AC**
- number of phases	:	**3**
- rated frequency (Hz)	:	**50 Hz**
- number of positions of the main contacts	:	**2 (O and I), I-indication extended across an angle of 45° to the O-indication**
Rated and limiting values, main circuit	:	
- rated operational voltage Ue (V)	:	**400 V and 690 V**
- rated insulation voltage Ui (V)	:	**1000 V**
- rated impulse withstand voltage Uimp (kV)	:	**8 kV switch** **8 kV switch-disconnector**
- conventional free air thermal current Ith (A)	:	**LT63 (3LD25) 63 A** **LT80 80 A**
- conventional enclosed thermal current Ithe (A)	:	**same as for Ith**
- rated operational current Ie (A)	:	**AC-3 400 V** **LT63 (3LD25) 18.5 kW (36 A)** **LT80 22 kW (43 A)** **AC-3 690 V** **LT63 (3LD25) 15 kW (17.5 A)** **LT80 18.5 kW (22 A)**
- rated uninterrupted current Iu (A)	:	**same as for Ith**
- utilization category	:	**AC-3**
Short-circuit characteristic	:	**N.A.**
Rated and limiting values, auxiliary circuits	:	**N.A.**
Co-ordination of short-circuit protective devices	:	**N.A.**
Terminal identification for line and load side (8.3.3.3.1 8th line)	:	**yes → L1/L2/L3 and T1/T2/T3**
Enclosure dimensions devices	:	**made of insulating material; dimensions 210 x 300 x 130 mm; only for test purposes, inner side covered with Al-foil**
Mounting	:	**front or rear mounting**
Used metallic screen for tests	:	**N.A**
Declared distance	:	

Possible test case verdicts:

- test case does not apply to the test object : N(.A.)
- test object does meet the requirement . . : P(ass)
- test object does not meet the requirement : F(ail)

General remarks:

"(see remark #)" refers to a remark appended to the report.

"(see appended table)" refers to a table appended to the report.

Throughout this report a comma is used as the decimal separator.

The test results presented in this report relate only to the item tested.

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The switch-connectors LT63 (3LD25) and LT80 have the same construction and dimensions.

The switch-connectors LT63 (3LD25) and LT80 have only different electrical ratings.

The contact of the neutral-pole NVG/80 (3LD9250) has the same construction and dimensions as those for the phase contacts.
The neutral contact complies with the requirement of clause 7.1.8: the neutral contact does not break before and does not close after the phase contacts.

All tests have been carried out on types LT80 with the highest electrical ratings.

The tests mentioned hereafter have been carried out in an enclosure (dimensions 210 x 300 x 130 mm) of insulating material of which the inner side is covered with a metal foil.