



TEST REPORT

EN 50178

Electronic equipment for use in power installations

Report reference No..... : 5000834-1494-0001/35198

Tested by (name + signature)..... : A. Roth

Approved by (name + signature)..... : A. Ernst

Date of issue : 2004-06-07

CCA Testing Laboratory..... : VDE Testing and Certification Institute

Address : Merianstrasse 28
D-63069 Offenbach

Testing location/procedure..... CCATL SMT TMP

Address..... : Section FG13

Applicant/Client

Name..... : AS Testsysteme GmbH

Address..... : Liebigstrasse 13, 85757 Karlsfeld

Manufacturer

Name..... : AS Testsysteme GmbH

Address..... : Liebigstrasse 13, 85757 Karlsfeld

Factory

Name..... : Power Electronic Ltd.

Address..... : P.O.B. 255 Or-Yehuda, 60200 Israel

Test specification:

Standard..... : EN 50178:1997

Test procedure : VDE-scheme

Non-standard test method : N/A.

Test Report Form No. : EN50178B

TRF originator..... : SGS Fimko Ltd

Master TRF : dated 2002-01

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Test item description..... :

Trade Mark..... : LEC

Description..... : Lighting Energy Controller

Model/Type reference..... : LEC A, LEC B

Ratings..... : AC 230/400 V, 50/60 Hz, 3 x 30 A



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Clause	Requirement – Test	Result – Remark	Verdict

5.2.18.6	Components and other electrical sub-assemblies		P
5.3	Requirements for EE's in installations with regard to protection against electric shock		P
5.3.1	Protection with regard to direct contact	Built-in device, front covered, no direct contact	P
5.3.1.1	Cables and leads	Built-in device, front covered, no direct contact	N
5.3.1.2	Connection of EE with protective separation		N
5.3.1.3	Built-in devices in installations		P
5.3.1.4	EE in closed electrical operating areas		N
5.3.2	Protection with regard to indirect contact		P
5.3.2.1	Leakage current (mA) through protective conductor	< 3.5 mA	P
	a) cross section (mm ²) of protective conductor Cu ...:		N
	b) Monitoring of protective conductor		N
	c) Second protective conductor		N
5.3.2.2	Permissible touch voltage		P
5.3.2.3	Protection of EE by residual-current-operated protective device		N

6	ENVIRONMENTAL REQUIREMENTS AND CONDITIONS		
6.1	Climatic conditions, type		P
6.1.1	Temperature		P
6.1.1.1	Ambient air temperature	-30°C - +50°C	P
6.1.1.2	Cooling medium temperature		N
6.1.2	Humidity and air pressure	0 – 97%	P
6.1.3	Pollution degree	3	P
6.2	Mechanical requirements (General)		P
6.2.1	Mechanical shock used method		P
6.2.2	Mechanical vibration		P
6.2.2.1	Immunity requirement to mechanical vibration		P
6.2.2.2	Mechanical vibration emission constraints		N
6.2.3	Sealing in case of liquid cooling		N
6.2.4	Sealing against dust ingress to EE		N
6.3	Electrical and electromagnetic requirements	Not tested	N

7	REQUIREMENTS FOR ELECTRONIC EQUIPMENT		
7.1	Design and construction		P