

TEST REPORT IEC 61347-2-11

Part 2: Particular requirements Section 11: Miscellaneous electronic circuits used with luminaires

Report Number...... PTC23071200201S-LD01

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Total number of pages.....: 31 pages

Name of Testing Laboratory Precise Testing & Certification (Guangdong) Co.,Ltd. preparing the Report.....:

Applicant's name...... Shenzhen Lampow Electronics co., Ltd

Address...... 11th A building Quanju industrial park jiangshi road ,gongming

shenzhen china

Manufacturer.....: Shenzhen Lampow Electronics co., Ltd

shenzhen china

Test specification:

Standard.....: IEC 61347-2-11:2001, AMD1:2017 used in conjunction with

IEC 61347-1:2015, AMD1:2017

Test procedure....: CB Scheme

Non-standard test method: N/A

Test Report Form No.....: IEC61347_2_11F

Test Report Form(s) Originator.....: Intertek Semko AB

Master TRF....: Dated 2018-11-09

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	vitch on the power supply control module		
Trade Mark: RI	OCON		
Model/Type reference:	SRMEV2300-SC		
Ratings: Sv	vitch Input:12VAC/DC,416mA,5W or 24VAC/DC,208mA,5W Max		
€ € € € € € Tr	rough-channel load:CH1/CH2:30V DC 1A 30W Max;		
XU XU XU XU XU X			
Responsible Testing Laboratory (as applic	able), testing procedure and testing location(s):		
CB Testing Laboratory:	Precise Testing & Certification (Guangdong) Co.,Ltd.		
Testing location/ address	Building1, No.6, TongxinPoad Dongcheng Street, Dongguan, Guangdong, China.		
Tested by (name, function, signature)	: Angus Zhao		
Approved by (name, function, signature).	: Matt Wu		
☐ Testing procedure: CTF Stage 1:	N/A 0 0 0 0 0 0 0 0		
Testing location/ address			
Tested by (name, function, signature)			
Approved by (name, function, signature).			
Testing procedure: CTF Stage 2:	N/A		
Testing location/ address			
Tested by (name + signature)			
Witnessed by (name, function, signature)			
Approved by (name, function, signature).			
Testing procedure: CTF Stage 3:	N/A		
☐ Testing procedure: CTF Stage 4:	N/A		
Testing location/ address			
Tested by (name, function, signature)			
Witnessed by (name, function, signature)	"" () () () () () () () () () (
Approved by (name, function, signature).			
Supervised by (name, function, signature): O		



List of Attachments:

Attachment 1:EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES Attachment 2: Product Photo.

Summary of testing:

Tests performed (name of test and test clause):

All applicable tests as described in the compliance checklist were performed.

Full tests conducted on model RSRMEV2300-SC

Testing location:

Precise Testing & Certification (Guangdong) Co.,Ltd. Building1, No.6,TongxinRoad, Dongcheng Street,Dongguan,Guangdong,China.

Summary of compliance with National Differences (List of countries addressed):

☑ The product fulfils the requirements of EN 61347-1:2015/A1:2021, EN 61347-2-11:2001/A1:2019 .

Copy of marking plate:

The artwork below may be only a draft.

N/A

Test item particulars:	Switch on the power supply control module
Classification of installation and use:	Class III
Supply Connection:	Termini blocks
Possible test case verdicts: - test case does not apply to the test object: - test object does meet the requirement: - test object does not meet the requirement:	N/A P (Pass) F (Fail)
Testing: Date of receipt of test item:	July 18, 2023
Date (s) of performance of tests:	July 18, 2023 to August 10, 2023
General remarks: "(See Enclosure #)" refers to additional information "(See appended table)" refers to a table appended to	
Throughout this report a ☐ comma / ☐ point is us	n IEC 61347-1
Manufacturer's Declaration per sub-clause 4.2.5 of The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided	☐ Yes ☐ Not applicable
When differences exist; they shall be identified in the	e General product information section
Name and address of factory (ies):	
General product information:	
The product is Switch on the power supply contro scenarios	I module which As an electronic switch used in many
2. The specified maximum ambient temperature for \$40°C.	Switch on the power supply control module (ta) is



	EN 61347-2-11		
Clause	Requirement + Test	Result - Remark	Verdic
4 (4)	GENERAL REQUIREMENTS		P
- (4)	Insulation materials for double or reinforced insulation according requirements in Annex N of IEC 61347-1	(see Annex N)	N/A
- (4)	Compliance of independent controlgear enclosure with IEC 60598-1	to the the the	N/A
- (4)	Built-in magnetic ballast with double or reinforced insulation comply with Annex I of IEC 61347-1	0 10 10 10 0	N/A
- (4)	Built-in electronic controlgear with double or reinforced insulation comply with Annex O of IEC 61347-1	(see Annex O)	N/A
- (4)	SELV controlgear comply with Annex L of IEC 61347-1	(see Annex L)	P
6 (6)	CLASSIFICATION		P
	Built-in controlgear:	Yes □ No ⊠	
Xo Xo	Independent controlgear:		_
× ×	Integral controlgear:		_
X0 X0	OX OX OX OX OX OX	0	XU X
7 (7)	MARKING		N/A
7.1 (7.1)	Mandatory markings		N/A
	a) mark of origin		N/A
XO XO	b) model number or type reference	0 0 0 0 0	N/A
	d) correlation between interchangeable parts and controlgear marked		N/A
()	e) rated supply voltage (V)		N/A
	supply frequency (Hz)		N/A
50 50	supply current (A)		N/A
	f) earthing symbol, if applicable		N/A
70 VO	k) wiring diagram	0 x0 x0 x0 x0	N/A
4 4	I) value of t _c	4 4 4 4	N/A
,0,0	s) SELV symbol	0 0 0 0 0	N/A
7.1 (-)	- control terminals identified, if applicable	, 6, 6, 6, 6,	N/A
7.457.00	- t _a alternative to t _c if independent	70 70 70 70 70	N/A
7.1 (7.2)	Marking durable and legible		N/A
	Rubbing 15 s water, 15 s petroleum; marking legible	0 0 0 0 0	N/A
7.2 (7.1)	Information to be provided, if applicable		N/A
C. C.	h) declaration of protection against accidental	c. c. c. c. c.	N/A
	contact		50 5
	i) cross-section of conductors (mm²)		N/A
No No	j) number, type and wattage of lamp(s)		N/A
7.1 (7.2)	Marking durable and legible	7 7 7	N/A
to to	Rubbing 15 s water, 15 s petroleum; marking legible	to the the the	N/A
8 (10)	PROTECTION AGAINST ACCIDENTAL CONTACT WITH LIVE PARTS		20 P 2
- (10.1)	Controlgear protected against accidental contact with live parts	4. 4. 4. 4.	P
- (A2)	Voltage measured with 50 k Ω	(see Annex A)	N/A
- (A3)	Voltage > 35 V peak or > 60 V d.c.	(see Annex A)	N/A



	EN 61347-2-11		
Clause	Requirement + Test	Result - Remark	Verdic
(40.4)	I seemed as a second set would for such attendance	1.6666.	CI LCID
- (10.1)	Lacquer or enamel not used for protection or insulation		P
	Adequate mechanical strength on parts providing protection	to the the the	C CP
- (10.2)	Capacitors > 0,5 μF: voltage after 1 min (V): < 50 V:	0 0 0 00	N/A
- (10.3)	Controlgear providing SELV	(, 6, 6, 6, 4	Р
10 10	Accessible conductive parts are insulated from live parts by double or reinforced insulation in SELV controlgear		P
4 4	No connection between output circuit and the body or protective earthing circuit	4 4 4	Р
40 40	No possibility of connection between output circuit and the body or protective earthing circuit through other conductive parts	6 % % % %	N/A
-0 -0	SELV outputs separated by at least basic insulation	C C C C	N/A
8 8	ELV conductive parts insulated as live parts	100000	N/A
r. r.	Tests according Annex L of IEC 61347-1	(see Annex L)	- N/A
- (10.4)	Accessible conductive parts in SELV circuits		PA PA
20 ZG	Output voltage under load ≤ 25 V r.m.s. or ≤ 60 V d.c.	12V DC	ZG ZG Z
40 40	If output voltage > 25 V r.m.s. or > 60 V d.c.; No load output ≤ 35 V peak or ≤ 60 V d.c and touch current does not exceed 0,7 mA (peak) or 2 mA d.c.	6 40 40 40 40	N/A
10 10 10 10	One conductive part is insulated if output voltage or current exceeding the values above and withstand test voltage 500 V		N/A
40 40	Double or reinforced insulation bridged by appropriate and at least two resistors or two Y2 capacitors or one Y1 capacitor Y1 or Y2 capacitors comply with IEC 60384-14		N/A N/A
4° 4°	Resistors comply with test (a) in 14.1 of IEC 60065	10 40 40 40 40 40 40 40 40 40 40 40 40 40	N/A
9 (8)	TERMINALS	C. C. C. C.	P
- (8.1)	Integral terminals	20 20 20 20	2G 2GP
₹ ₹	Screw terminals according section 14 of IEC 60598-1	(see Annex 2)	Р
6 6 6 C	Screwless terminals according section 15 of IEC 60598-1	(see Annex 3)	N/A
- (8.2)	Terminals other than integral terminals	KO KO KO KO	XO KOPA
4 4	Comply with relevant IEC standard	(see Annex 1)	Р
20 ZO	Suit the conditions	40 40 40 AG	N/A
5, 5,	Satisfy additional relevant requirements of this standard	4, 6, 6, 6	P
10 (9)	PROVISION FOR EARTHING		N/A
- (9.1)	Provisions for protective earthing	0 0 0 0	N/A
600	Terminal complying with clause 8	~ X X X X	N/A
-0-0	Locked against loosening and not possible to loosen by hand		N/A



	EN 61347-2-11		7 7
Clause	Requirement + Test	Result - Remark	Verdict
-0 -0	Not possible to leason elemning means	10 20 20 20 20	N/A
\$ \$	Not possible to loosen clamping means unintentionally on screwless terminals		6, 6,
	All parts of material minimizing the danger of electrolytic corrosion	to the the the	N/A
	Made of brass or equivalent material		N/A
30 30	Contact surface bare metal	CO NO NO NO	N/A
4	Test according 7.2.3 of IEC 60598-1		N/A
- (9.2)	Provision for functional earthing	NO NO NO NO	N/A
4. 4.	Comply with clause 8 and 9.1	(4, 4, 4, 4, 4,	N/A
40 KO	Functional earth insulated from live parts by double or reinforced insulation	to the the the	N/A
- (9.3)	Lamp controlgear with conductors for protective printed circuit board	ve earthing by tracks on	N/A
40 40	Test with a current of 25 A between earthing terminal or earthing contact and each of the accessible metal parts; measured resistance (Ω) at \geq 10 A according 7.2.3 of IEC 60598-1: < 0,5 Ω		N/A
- (9.4)	Earthing of built-in lamp controlgear		N/A
\$10 \$10	Earth by means of fixing to earthed metal of luminaire in compliance of 7.2 of IEC 60598-1	6 40 40 40 40	N/A
No No	Earthing terminal only for earthing the built-in controlgear	6 40 40 40 40	N/A
- (9.5)	Earthing via independent controlgear		N/A
- (9.5.1)	Earth connection to other equipment	KO KO KO KO	N/A
2G 2G	Looping or through connection, conductor min. 1,5 mm² and of copper or equivalent	20 20 20 20 20	N/A
\$7 \$7	Protective earthing wires in line with 5.3.1.1 and clause 7 of IEC 60598-1		N/A
- (9.5.2)	Earthing of the lamp compartments powered via the controlgear	ne independent lamp	N/A
40 400	Test with a current of 25 A between input and output earth terminals; measured resistance (Ω) between earthing terminal or earthing contact and each of the accessible metal parts at \geq 10 A according 7.2.3 of IEC 60598-1: $<$ 0,5 Ω		N/A
10 St	Output earthing terminal marked as in 7.1 t) of IEC 61347-1	6 40 40 40 40	N/A
11 (11)	MOISTURE RESISTANCE AND INSULATION		Ç P X
- (11)	After storage 48 h at 91-95% relative humidity and insulation resistance:	1 20-30 °C measuring of	P

5, 5,	P P P P P	61347-2-11	5, 5, 5,
Clause	Requirement + Test	Result - Remark	Verdict

SKO.	\$10	Ó	For basic insulation \geq 2 M Ω :	Location Value measured	KO P KO
S.C.		Ó		Between 100MΩ	er sto
é.C		Ŕ		positive and negative	Ke Ste
20		ó		polarity	Ko Ko
é Co		Ŕ		Between input 100MΩ and output	KO KO
8 ^C O		Ó		circuits	to st
6/C	₹°	Ó	For double or reinforced insulation \geq 4 M Ω :	6 % % % % % .	N/A
- (11)	\$KO	ď	Between primary and secondary circuits in controlgear providing SELV, values in Annex L in IEC 61347-1		N/A

12 (12)	ELECTRIC STRENGTH		Р
- (12)	Immediately after clause 11 electric strength test for 1 min	to the the the the	NO PACO
2G 2G	Basic insulation for SELV, test voltage 500 V	500V	20 P 20
6, 6,	Working voltage ≤ 50 V, test voltage 500 V	500V	P
.00	Working voltage > 50 V ≤ 1000 V, test voltage (V)	-6 -6 -6 -6	o P o
6 6	Basic insulation, 2U + 1000 V		N/A
70 YO	Supplementary insulation, 2U + 1000 V	0 X0 X0 X0 X0	N/A
9 9	Double or reinforced insulation, 4U + 2000 V	6, 6, 6, 6,	N/A
50 50	No flashover or breakdown		P
4° 4°	Solid or thin sheet insulation for double or reinforced insulation fulfil the requirements in Annex N in IEC 61347-1	40 40 40 40 40	N/A

14 (14)	FAULT CONDITIONS		P
- (14.1)	When operated under fault conditions the controlgear:		20 P 20
6, 6,	- does not emit flames or molten material	, 6, 6, 6, 6,	P?
C. C.	- does not produce flammable gases		- P -
400	- protection against accidental contact not impaired	a se se se se	P
\$10 \$10	Thermally protected controlgear does not exceed the marked temperature value	6 40 40 40 40	N/A
\$0 \$0	Fault conditions: capacitors, resistors or inductors without proof of compliance with relevant specifications have been short-circuited or disconnected	(see appended table)	P C
- (14.2)	Short-circuit of creepage distances and clearances if less than specified in clause 16 in Part 1 (after any reduction in 14.2 - 14.5)	6 40 40 40 40	N/A
- (14.3)	Short-circuit or interruption of semiconductor devices	(see appended table)	P



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Clause	Requirement + Test	Result - Remark	Verdict	
- (14.4)	Short-circuit across insulation consisting of lacquer, enamel or textile	6 40 40 40 40	N/A	
- (14.5)	Short-circuit across electrolytic capacitors	(see appended table)	26 P 20	
- (14.6)	After the tests has been carried out on three samp	les:	(P()	
7. 7.	The insulation resistance \geq 1 M Ω	>100MΩ	P a	
W W	No flammable gases	CO SCO SCO SCO	S Pos	
	No accessible parts have become live		Р	
Sic Sic	During the tests, a five-layer tissue paper, where the test specimen is wrapped, does not ignite	6 40 40 40 40	N P	
- (14.7)	Relevant fault condition tests with high-power a.c. supply	6 40 40 40 40	_	

15 (15)	CONSTRUCTION		P
- (15.1)	15.1) Wood, cotton, silk, paper and similar fibrous material		, P
₹ ₹	Wood, cotton, silk, paper and similar fibrous material not used as insulation	C C C C C C	Р
- (15.2)	Printed circuits		Po
XO XO	Printed circuits used as internal connections complies with clause 14	0 X0 X0 X0 X0	P
- (15.3)	Plugs and socket-outlets used in SELV or ELV	circuits	N/A
40 40	No dangerous compatibility between output socket-outlet and a plug for socket-outlets for input circuit in relation to installation rules, voltages and frequencies		N/A
20 20	Plugs and socket-outlets for SELV comply with IEC 60906-3 and IEC 60884-2-4	O O O O O	N/A
40 40	Plugs and socket-outlets for SELV \leq 3 A, \leq 25 V r.m.s. or \leq 60 V d.c. and \leq 72 W comply with IEC 60906-3 and IEC 60884-2-4 or:	6 40 40 40 40	N/A
X0 X0	- plugs not able to enter socket-outlets of other standardised system	0 x0 x0 x0	N/A
20 20	- socket-outlets not admit plugs of other standardised system	20 20 20 20 20	N/A
6, 6,	- socket-outlets without protective earth	, 6, 6, 6, 6,	N/A
- (15.4)	Insulation between circuits and accessible part	is a contract	.c. P
(15.4.2)	SELV circuits		Po
	Source used to supply SELV circuits:		Р
\$10 \$10	- safety isolating transformer in accordance with relevant part 2 of IEC 61558	to see see see see	N/A
of of	- controlgear providing SELV in accordance with relevant part 2 of IEC 61347	to be be the the	OP.
	- another source		N/A
N N	Voltage in the circuit not higher than ELV	CO SO SO SO	N/A
20 20	SELV circuits insulated from LV by double or reinforced insulation	0 0 0 0 0	N/A
Q Q	SELV circuits insulated from non ELV circuits by double or reinforced insulation	6 6 6 6 6	N/A
6 6 G	SELV circuits insulated from FELV circuits by supplementary insulation	1 4 4 4 4 4 4 4 1 1 1 1 1 1 1 1 1 1 1 1	N/A
é,0 é,0	SELV circuits insulated from other SELV circuits by basic insulation	6 40 40 40 40	P
No No	SELV circuits insulated from accessible conductive parts according Table 6 in 15.4.5	co to to to to	N/A



C	EN 61347-2-11	CC. C. C. C.	.0
Clause	Requirement + Test	Result - Remark	Verdic
- (15.4.3)	FELV circuits	20 20 20 20 20	N/A
(10.1.0)	Source used to supply FELV circuits:	5 4 4 4 4	N/A
C. C.	- separating transformer in accordance with	C. C. C. C. C.	N/A
	relevant part 2 of IEC 61558	to the the the the	11//
de de	- separating controlgear providing basic insulation between input and output circuits in accordance with relevant part 2 of IEC 61347	ic tic tic tic	N/A
20 20	- another source	0 , 0 , 0 , 0 ,	N/A
6, 6,	- source in circuits separated by the LV supply by	4, 4, 4, 4, 4,	N/A
	basic insulation	.00000.	.0.
000	Voltage in the circuit not higher than ELV		N/A
XO XO	FELV circuits insulated from LV supply by at least basic insulation	0 X0 X0 X0 X0	N/A
X	FELV circuits insulated from other FELV circuits if functional purpose	4 4 4 4	N/A
4 4	FELV circuits insulated from accessible conductive parts according Table 6 in 15.4.5	1 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	N/A
X0 X0	Plugs and socket-outlets for FELV system comply	with:	N/A
20 20	- plugs not able to enter socket-outlets of other voltage systems	VIII. 20 20 20 20	N/A
₹° ₹°	- socket-outlets not admit plugs of other voltage systems		N/A
6/2 6/2	- socket-outlets have a protective conductor contact	and the tenth	N/A
(15.4.4)	Other circuits	NO NO NO NO	N/A
to to	Insulation between circuits other than SELV or FELV and accessible conductive parts in according Table 6 in 15.4.5.	6 40 40 40 40	N/A
- (15.4.5)	Insulation between circuits and accessible conduct	tive parts	N/A
40 40	Accessible conductive parts insulated from active parts of electric circuits by insulating according Table 6		P
6. 6.	Requirements for Class II construction with equipo against indirect contact with live parts:	tential bonding for protection	N/A
5 5°	- all conductive parts are connected together	Company of the	N/A
XO XO	- conductive parts are reliably connected together according test of IEC 60598-1 cl. 7.2.3	0 0 0 0 0 0	N/A
6, 6,	- conductive parts comply with requirements of Annex A in case of insulation fault	4, 4, 4, 4,	N/A
5 5	1 dad of modulon radio		00
16 (16)	CREEPAGE DISTANCES AND CLEARANCES		N/A
- (16)	Creepage distances and clearances according to 16.2 and 16.3	C &	N/A
STO STO	Controlgears providing SELV comply with additional requirements in Annex L	to be be be be	N/A
	Insulating lining of motallic analogues		NI/A

16 (16)	CREEPAGE DISTANCES AND CLEARANCES		N/A				
- (16)	Creepage distances and clearances according to 16.2 and 16.3		N/A				
\$10 \$10	Controlgears providing SELV comply with additional requirements in Annex L		N/A				
-0 -0	Insulating lining of metallic enclosures	0 0 0 0 0	N/A				
8, 8,	Controlgear protected against pollution comply with Annex P	(see Annex P)	N/A				
- (16.2)	Creepage distances	A SO SO SO SO	N/A				
- (16.2.2)	Minimum creepage distances for working voltage	es	N/A				
20 20	Creepage distances according to Table 7	N/A CO CO CO CO	N/A				
- (16.2.3)	Creepage distances for working voltages with frequencies above 30 kHz						
-0 -0	Creepage distances according to Table 8	(see appended table)	N/A				
- (16.3)	Clearances		N/A				





20 20	Ox Ox Ox Ox Ox Ox Ox	Report No.: PTC230712003	201S-LD01
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Clause	Requirement + Test	Result - Remark	Verdict
- (16.3.2)	Clearances for working voltages	XO XO XO XO	N/A
4 4	Clearances distances according to Table 9	(see appended table)	N/A
- (16.3.3)	Clearances for ignition voltages and working voltages	ges with higher frequencies	N/A
5 5	Clearances distances for basic or supplementary insulation according to Table 10	(see appended table)	N/A
Se Se	Clearances distances for reinforced insulation according to Table 11	(see appended table)	N/A
70 YO	25 25 25 25 25 25 25 25	20 20 20 20 20	XO X
17 (17)	SCREWS, CURRENT-CARRYING PARTS AND	CONNECTIONS	N/A
- (17)	Screws, current-carrying parts and connections in (clause numbers between parentheses refer to IEC		N/A
(4.11)	Electrical connections		N/A
(4.11.1)	Contact pressure	KO KO KO KO KO	N/A

17 (17)	SCREWS, CURRENT-CARRYING PARTS AND CONNECTIONS					
- (17)	Screws, current-carrying parts and connections in compliance with IEC 60598-1 (clause numbers between parentheses refer to IEC 60598-1)					
(4.11)	Electrical connections	N/A				
(4.11.1)	Contact pressure	N/A				
(4.11.2)	Screws:	N/A				
20 20	- self-tapping screws	N/A				
6, 6,	- thread-cutting screws	N/A				
(4.11.3)	Screw locking:	N/A				
0 0	- spring washer	N/A				
	- rivets	N/A				
(4.11.4)	Material of current-carrying parts	N/A				
(4.11.5)	No contact to wood or mounting surface	N/A				
(4.11.6)	Electro-mechanical contact systems	N/A				
(4.12)	Mechanical connections and glands	N/A				
(4.12.1)	Screws not made of soft metal	N/A				
Q Q	Screws of insulating material	N/A				
	Torque test: torque (Nm); part:	N/A				
20 20	Torque test: torque (Nm); part::	N/A				
4	Torque test: torque (Nm); part:	N/A				
(4.12.2)	Screws with diameter < 3 mm screwed into metal	N/A				
(4.12.4)	Locked connections:	N/A				
-0 -0	- fixed arms; torque (Nm):	N/A				
0 0	- lampholder; torque (Nm)	N/A				
	- push-button switches; torque 0,8 Nm:	N/A				
(4.12.5)	Screwed glands; force (Nm):	N/A				

18 (18)	RESISTANCE TO HEAT, FIRE AND TRACKING						
- (18.1)	Ball-pressure test	See Test Table 18 (18.1)	Р				
- (18.2)	Test of printed boards	KO KO KO KO	N/A				
- (18.3)	Glow-wire test	See Test Table 18 (18.3)	N/A				
- (18.4)	Needle flame test	See Test Table 18 (18.4)	26 P 20				
- (18.5)	Tracking test	1 6 6 6 6	N/A				

19 (19)	19) RESISTANCE TO CORROSION					
.C1 .C	- test according 4.18.1 of IEC 60598-1	.0 .0 .0 .0 .0	N/A			
000	- adequate varnish on the outer surface		N/A			

2	20 (-)	ANNEXES	N/A
	C C	Comply with appropriate annexes of IEC 61347-1 (see Annexes)	N/A

-60	50 50	300	200	5/10	600	500	5	500	300	500	200	5	300	10 10
14	C. C.		ΓABLE	E: test	s of fa	ult co	nditio	ns	· .	·	· r.	7.	· .	P
Part		9	Simula	ted fa	ult									Hazard



	EN 61347-2-11										
Clause	Requir	ement + Test	Result - Remark	Verdict							
R3	, CO	* Unit shutdown immedi	ately, no hazard.	NO							
U4pin 1-8	SC	* Unit shutdown, recov	rerable, no damaged.	NO							
Q1 pin G-D	sc	* Unit shutdown immedi	ately, no hazard.	NO							
Q1 pin D-S	sc	* Unit shutdown immedi	ately, no hazard.	NO							
Q1 pin G- S	SSC	* Unit shutdown immedi	ately, recoverable, no damaged, no hazard.	NO							
D1 SC	6	* Unit shutdown immedi	ately, no hazard.	NO							

16 (16)	TABLE:	creepage di	stance and cl	earance (mn	n)		N/A		
, ,			able part of IE						
Distances	Insulation	Measured	Requ	uired	Measured	Required			
	type **	clearance	clearance	*Table	creepage	creepage	*Table		
Distance 1:	XO XO	XO XO	XOXO	XO XO	XO XO X	0 20 0	χ <u>σ</u> χς		
Working volt	tage (V)		6 6	Q Q .	4 6 6	6 6.			
Frequency if	f applicable (kHz)	,		20 20 2	0 20 20	_		
PTI				:	< 600 □	≥ 600 □	4		
Peak value	of the workin	g voltage Û _{ou}	. C	C1 .C1 .C1					
Pulse voltag	e if applicabl	e (kV)			1 0 0		š —		
Supplementa	ary information	on:							
Distance 2:	\$10\$10	20- 200	\$10 \$10	STO STO	50 50 6	5 Y 5 Y	\$100 AT		
Working volt	tage (V)						_		
Frequency if	f applicable (kHz)			5 6 6	C SC SC	_		
PTI				:	< 600 🗌	≥ 600 □			
			if applicable (6 YO YO	_		
Pulse voltag	e if applicabl	e (kV)			, , , ,	7			
Supplementa	ary information	n: see annex	5 20 20	20 ZO	XO XO X	0 20 20	XO X		
Distance 3:	8, -8,	8, -8,	S. TS.	8. <u>8</u> .	6. 6. 6	8 <u>-</u> 8 ·	6, - 6,		
Working volt	tage (V)	2020		20 20	40 X0 X	0 20 20	_		
						, 6, 6,	_		
PTI	,		,		< 600 🗌	≥ 600 □	_		
Peak value	of the workin	g voltage Ûou	if applicable (kV):	Q- 9 9	6, 6,	<		
Pulse voltag	e if applicabl	e (kV)		,	70 .0 .	0 -0 -0	_		
	ary information		000	000	0 0 0	1000	0 0		

^{**} Insulation type: B – Basic; S – Supplementary; R – Reinforced



5, 5,	P P P P P	61347-2-11	5, 5, 5,
Clause	Requirement + Test	Result - Remark	Verdict

18 (18.1)	TABLE: Bal	TABLE: Ball Pressure Test							
Allowed impression diameter (mm)			: 2.0mm						
Object/ Part No./ Material		Manufacturer/ trademark	Test temperature (°C)	Impression diameter (mm)					
РСВ		See annex 1	125	1.0					
CN1		See annex 1	75	0 0 1.4 0					
CN2		See annex 1	75	1.3					

18 (18.2)	TABLE: Test of p	rinted	ed boards							20	N/A	
Object/ Part No./ Material	Manufacturer/ trademark		Duration of application of test flame (s)		Ignition of specified layer Yes/No			Duration of burning (s)			Verdict	
-x0 x0	O ₂ O ₂ O ₃	<u> </u>	(0 X	0 20	<0	20	χG	-70	20	KO.	- Q	X

18 (18.3)	TABLE: Glow-wire test		N/A
Glow wire te	mperature:	650°C(750°Cis also considered for national deviation of Australia)	_
Object/ Part No./ Material	Manufacturer/ trademark	Ignition of specified Duration of burning layer (s) Yes/No	Verdict
- 0 0	0 0 0 0 0 0		. 0 . 0
Supplementa	ry information: all alternative considere	ed.	6 C

18 (18.4)	TABLE: Needle-fla	me test	, 40 40 40	40 40 40 4	E P
Object/ Part No./ Material	Manufacturer/ trademark	Duration of application of test flame (s)	Ignition of specified layer Yes/No	Duration of burning (s)	Verdict
РСВ	See annex 1	10	No	₹ ₹0 ₹	P
Supplementar	y information: all alter	native considered.	30 30 30	X0 X0 X0	XO XO

Test voltage	e PTI	•••••	:	175 V		7		4	_
Object/ Part Material	No./	Manufacturer/ trademark	With		drops with			three places	Verdict
NO NO	50 S	6-80 80 8	0 50	50 8	6 -26	50	20-	NO NO .	50 50



6, 6,	EN 6	1347-2-11	5, 6, 6,
Clause	Requirement + Test	Result - Remark	Verdict

(A)	ANNEX A - TEST TO ESTABLISH WHETHER A CONDUCTIVE PART IS A LIVE PART WHICH MAY CAUSE AN ELECTRIC SHOCK		Se Pro
(A.1)	Comply with A.2 or A.3	to the the the the	P
(A.2)	Voltage ≤ 35 V peak or ≤ 60 V d.c:	23.96V	OP C
(A.3)	If voltage measured according Clause A.2 exceeds the limit value; touch current does not exceed 0,7 mA (peak) or 2 mA d.c.		N/A

(C)	ANNEX C – PARTICULAR REQUIREMENTS FOR CONTROLGEAR WITH MEANS OF PROTECTION		N/A
(C3)	GENERAL REQUIREMENTS		N/A
(C3.1)	Thermal protection means integral with the convertor, protected against mechanical damage		N/A
8 8	Renewable only by means of a tool	and the tenton	N/A
10 10 10 10	If function depending on polarity, for cord- connected equipment protection means in both leads		N/A
8, 8,	Thermal links comply with IEC 60691	. 6, 6, 6, 6, 6	N/A
X0 X0	Electrical controls comply with IEC 60730-2-3	6 40 40 40 40	N/A
(C3.2)	No risk of fire by breaking (clause C7)		N/A
(C5)	CLASSIFICATION		N/A
26 20	a) automatic resetting type	0 20 20 20 20	_
6, 6,	b) manual resetting type	6, 6, 6, 6, 6	_
20 XC	c) non-renewable, non-resetting type		_
0.0	d) renewable, non-resetting type		_
Q Q	e) other type of thermal protection; description:		_
(C6)	MARKING CO.	0 0 0 0 0 0	N/A
(C6.1)	Symbol for temperature declared thermally protected ballasts		N/A
(C6.2)	Declaration of the type of protection provided		N/A
(C7)	LIMITATION OF HEATING	0 20 20 20 20	N/A
(C7.1)	Preselection test:	6.6.6.6.6	N/A
	Test sample placed for at least 12 h in an oven having temperature (t _c - 5) K		N/A
X0 X0	No operation of the protection device	0 6 6 6 6	N/A
(C7.2)	Functioning of protection means:		N/A
10 10	Normal operation of the sample in a test enclosure according to Annex D at an ambient temperature such that (t _c +0; -5) °C is obtained		N/A
6, 6,	No operation of the protection device	6, 6, 6, 6,	N/A
			1



	EN 61347-2-11		10.
Clause	Requirement + Test	Result - Remark	Verdict
.00.	In 10 10 10 10 10 10	0 0 0 0	NI/A
\$ \$ \$ P	Introducing of the most onerous test condition determined during test of clause 14.2 to 14.5		N/A
	Output of windings connected to the mains supply short-circuited, and other part of the controlgear operated under normal conditions		N/A
Se Se	Increasing of the current through the windings continuously until operation of the protection means	c to to to	N/A
de de	Continuous measuring of the highest surface temperature	6 40 40 40 40	N/A
40 40	Ballasts according to C5 a) or C5 e) operated until stable conditions are achieved	6 46 46 46 46	N/A
410 A10	Automatic-resetting thermal protectors working 3 times		N/A
Sec Sec	Ballasts according to C5 b) working 6 times	to the ten the ten	N/A
10 10	Ballasts according to C5 c) and C5) d) working once	C 40 40 40 40	N/A
éic éic	Highest temperature does not exceed the marked value	c to to to to	N/A
& &c	Any overshoot of 10% over the marked value within 15 min	6 40 40 40 40	N/A
XC XC	After 15 min value not exceed marked value	6 46 46 46 46	N/A
(D)	ANNEX D – REQUIREMENTS FOR CARRY OUT THERMALLY PROTECTED LAMP CONTROLGE		N/A
de de	Tests in C7 performed in accordance with Annex D, if applicable	6 40 40 40 40	N/A
40 40	to to to to to to to to		NI/A
(F)	ANNEX F - DRAUGHT-PROOF ENCLOSURE		N/A
	Draught-proof enclosure in accordance with the description		N/A
20 20	Dimensions of the enclosure	0, 0, 0, 0, 0,	N/A
6, 6,	Other design; description	, 6, 6, 6, 6,	N/A
(H)	ANNEX H - TESTS		P
\$ \$ \$	All tests performed in accordance with the advice given in Annex H, if applicable		P
(I)	ANNEX I – ADDITIONAL REQUIREMENTS FOR E		N/A
(1.6)	Symbol on ballasts with double or reinforced insulation	0 20 20 20 20	N/A
6, 6,	Symbol explained in manufacturers catalogue	. 4. 4. 4. 4.	N/A
			N/A



X X	EN 61347-2-11	~ × × × ×	X X
Clause	Requirement + Test	Result - Remark	Verdic
(1.40)	Destruction Profit on the Anthrope and the Anthrope		
(I.12)	Devices for limiting the temperature bridged After the test according clause 13		N/A
Sic Sic	At least six of seven ballast start the lamp and the current not exceed 115%	e to te te te	N/A
éro éro	Insulation resistance not less than 4 M Ω between winding and case for all ballasts	6 40 40 40 40	N/A
10 10 10 10	All ballasts withstand electric strength test reduced to 35% of values in Table 1 of IEC 61347-1		N/A
(I.15)	Built-in ballasts with double or reinforced insulation comply with corresponding values of creepage and clearances in IEC 60598-1	6 40 40 40 40	N/A
(L)	ANNEX L - PARTICULAR ADDITIONAL REQUIR CONTROLGEARS PROVIDING SELV	REMENTS FOR	P
(L.3)	Classification	5, 6, 6, 6, 6,	6, 6,
X0 X0	Class I	Yes □ No ⊠	_
X X	Class II	Yes □ No ⊠	_
No No	Class III	Yes ⊠ No □	<u> </u>
.0.	non-inherently short circuit proof controlgear	Yes ⊠ No □	_
\$ \$	inherently short circuit proof controlgear	Yes □ No ⊠	<u> </u>
X0 X0	fail safe controlgear	Yes □ No ⊠	_
0.0.	non-short-circuit proof controlgear	Yes □ No ⊠	_
(L.4)	Marking		P
(<u>-</u>)	Adequate symbols are used	0 0 0 0 0	P
(L.5)	Protection against electric shock		P
20 20	Comply with clause 9.2 of IEC 61558-1	0 20 20 20 20	, P
(L.6)	Heating	रे रे रे रे रे	P
	No excessive temperatures in normal use	0 00 00 00	O P
X X	Value if capacitor t₀ marked:		_
200 VC	Winding insulation classified as Class:	to the the the	d —
40 40	Comply with tests of clause 14 of IEC 61558-1 with adjustments	6 40 40 40 40	P
(L.7)	Short-circuit and overload protection	261 261 261 261 261	. P
\$ \$	Comply with tests of clause 15 of IEC 61558-1 with adjustments	0 0 0 0 0	P
(L.8)	Insulation resistance and electric strength		P
(L.8.1)	Conditioned 48 h between 91 % and 95 %	0 20 20 20 20	P
(L.8.2)	Insulation resistance		P?
	Between input- and output circuits not less than 5 $M\Omega$	to be be be be	N/A



Clause	Requirement + Test	Result - Remark	Verdic
Ó. Ó.	D. 1 6. 6. 6. 6. 6. 6. 6. 6.	0. 0. 0. 0. 0.	d . 6
% % % %	Between metal parts of class II convertors which are separated from live parts by basic insulation only and the body not less than 5 M Ω		N/A
4° 4°	Between metal foil in contact with the inner and outer surfaces of enclosures of insulating material not less than 2 $M\Omega$		N/A
(L.8.3)	Electric strength	AC AC AC AC	O O P
XG XG	Between live parts of input circuits and live parts of output circuits:	0 0 0 0 0	
9 9	2) Over basic or supplementary insulation between	1:	N/A
20 20	a) live parts having different polarity:	to do do do de	N/A
% %c	b) live parts and body if intended to be connected to protective earth	0 00 00 00	N/A
	c) accessible metal parts and a metal rod of the same diameter as the flexible cable or cord:	0 80 80 80 81	N/A
C. C.	d) live parts and an intermediate metal part:	C C C C	N/A
1 1 1	e) intermediate metal parts and the body:	1 6 6 6 6	N/A
40 40	f) each input circuit and all other input circuits:	0 0 0 0 0	N/A
X0 X0	Over reinforced insulation between the body and live parts	0 40 40 40 40	N/A
(L.9)	Construction	4. 6. 6. 6.	N/A
(L.9.1)	Transformer comply with 19.12 of IEC 61558-1 and 19 of IEC 61558-2-6	6 40 40 40 40	N/A
30 30	HF transformer comply with 19 of IEC 61558-2-16	to the the the	N/A
(L.10)	Components		N/A
	Protective devices comply with 20.6 – 20.11 of IEC 61558-1	6 46 46 46 46	N/A
(L.11)	Creepage distances, clearances and distances	through insulation	N/A
10 No	Creepage distances and clearances not less than in Clause 16	0 20 20 20 20	N/A
	Distance through insulation according Table L.5 in	IEC 61347-1	N/A
400	1) Basic distance through insulation		N/A
20 20	Required distance (mm)	0 x0 x0 x0 x	N/A
8, 8,	Measured (mm)	, 6, 6, 6, 6,	IN/A
XO XO	Supplementary information	0 00 00 00) —
× ×	2) Supplementary distance through insulation	X X X X	N/A
20 20	Required distance (mm):	C NO NO NO NO	~ <u>-</u>
JG JG	Measured (mm):	0 0 0 0 0	N/A
6 6	Supplementary information	6 6 6 6	9 —
40 40	3) Reinforced distance through insulation	O NO NO NO N	N/A
4 4	Required distance (mm)	4 4 4 4	_
70 V	Measured (mm)	6 20 20 20 X	N/A



8, 8,	EN 61347-2-1	1 6, 6, 6, 6, 6, 6	, 6, 6,
Clause	Requirement + Test	Result - Remark	Verdict
X0 X	Supplementary information	6 10 20 20 20 X	· / –

(N)	ANNEX N - REQUIREMENTS FOR INSULATION DOUBLE OR REINFORCED INSULATION	MATERIALS USED FOR	N/A
(N.4)	General requirements		N/A
(N.4.1)	Material comply with IEC 60085 and IEC 60216 series	0 % % % % %	N/A
(N.4.2)	Solid insulation		N/A
sto sto	Electric strength test at least 5 kV or 1,35 x test voltage in Table N.1	6 40 40 40 40 V	N/A
10 10 10	If not classified according IEC 60085 and IEC 60216 series: Electric strength test increased 10 % to 5,5 kV or 1,5 x test voltage in Table N.1		N/A
(N.4.3)	Thin sheet insulation	4 4 4 4	N/A
(N.4.3.1)	Thickness and composition of thin sheet insulation	30 20 20 20 30	N/A
	- Inside the ballast and not subjected to handling or abrasion during the production and during maintenance		N/A
Sic Sic	- Non-separated layers: Min. 3 layers and fulfil mandrel test of 150N	6 40 40 40 40 40	N/A
\$10 \$10	- Separated layers: Min. 2 layers and each layer fulfil mandrel test of 50N	6 40 40 40 40 40	N/A
4° 4°	- Separated layers (alternative): Min. 3 layers and 2/3 of the layers fulfil mandrel test of 100N	6 40 40 40 40	N/A
(N.4.3.2)	Mandrel test (electric strength test during mechanic	cal stress)	N/A
5. 6.	Electric strength test after mandrel test:	5 5 5 5	N/A
	- Non-separated layers: min. 5 kV or 1,35 x test voltage in Table N.1	6 40 40 40 40 40	N/A
of of o	- 2/3 of min. 3 separated layers: min. 5 kV or 1,25 x test voltage in Table N.1	6 40 40 40 40 40 1	N/A
\$10 \$10	- one of 2 separated layers: min. 5 kV or 1,25 x test voltage in Table N.1	6 40 40 40 40 40 °	N/A
X0 X0	No flashover or breakdown occurred	0 20 20 20 20	N/A

(O)	ANNEX O - ADDITIONAL REQUIREMENTS FOR BUILT-IN ELECTRONIC CONTROLGEAR WITH DOUBLE OR REINFORCED INSULATION		N/A
(O.6)	Marking	NO NO NO NO	N/A
X X	Marking according clause 7 (7)	See clause 7	N/A
\$10 \$10	Special symbol	The sto sto sto sto	N/A
of of	Meaning of the special symbol explained in catalogue	to to to to to	N/A
(O.7)	Protection against accidental contact with liv	ve parts	N/A
6 6 G	Requirements of clause 8 (10)	See clause 8	N/A
Sic Sic	Test finger not possible to make contact with basic insulated metal parts	4° 4° 4° 4° 4° 4°	N/A



Clause	Requirement + Test	Result - Remark	Verdict
(O 0)	Terminals		NI/A
(O.8)	0, 0, 0, 0, 0, 0, 0, 0, 0	See clause 9	N/A N/A
(O.9)	Clause 9 (8) Provision for earthing	20 20 20 20 20	N/A
(0.9)		4 4 4	N/A
X0 X0	Functional earthing terminals comply with clause 9 of part 1	6 % % % %	8º 8
	No protective earthing terminal	0 0 0 0 0	N/A
(O.10)	Moisture resistance and insulation		N/A
	Clause 11 (11)	See clause 11	N/A
(O.11)	Electric strength	1 5 5 5 5 5 5 5 T	N/A
	Clause 12 (12)	See clause 12	N/A
(O.13)	Fault conditions	, 6, 6, 6, 6,	N/A
	Clause - (14)	See clause 14	N/A
40 40 40 40	End of test, between live part and accessible metal parts or external parts of insulating material in contact with the supporting surface comply with dielectric strength test reduced to 35 % of values according Table 3 in part 1		N/A
	Insulation resistance according to CI.10 between live part and accessible metal parts or external parts of insulating material in contact with the supporting surface not less than 4 $M\Omega$		N/A
(O.14)	Construction	4 4 4 4	N/A
	Clause 17 (15)	See clause 17	N/A
No No	Accessible metal parts insulated from live parts by double or reinforced insulation	6 46 46 46 46	N/A
sic sic	Live part insulated from supporting surface in contact with external faces by double or reinforced insulation	6 40 40 40 40	N/A
(O.15)	Creepage distances and clearances	40 YO YO YO	N/A
	Clause 18 (16)	See clause 18	N/A
40 40	Comply with corresponding values for luminaries in IEC 60598-1		N/A
(O.16)	Screws, current-carrying parts and connections	S NO NO NO NO	N/A
C. C.	Clause 19 (17)	See clause 19	N/A
(O.17)	Resistance to heat and fire	1 54 54 54 54	N/A
,Cs .Cs	Clause 20 (18)	See clause 20	N/A
(O.18)	Resistance to corrosion	1 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	N/A
	Clause 21 (19)	See clause 21	N/A

(P)	ANNEX P - Creepage distances and clearances and distance through isolation (DTI) for lamp controlgear which are protected against pollution by the use of coating or potting					
(P.1)	General O O O O O O O O O O O O O O O O O O O	N/A				
40 40	P.2 applies if creepage distances less than the minimum in Table 7 and 8	N/A				

Clause	Requirement + Test	Result - Remark	Verdict
Clause	Requirement + Test	Result - Remark	verdici
sto sto	P.3 applies if clearance less than the minimum in Table 9, 10 and 11	to the the the term	N/A
(P.2)	Creepage distances	NO NO NO NO	N/A
(P.2.2)	Minimum creepage distances for working voltages frequencies up to 30 kHz (Table P.1)	and rated voltages with	N/A
6, 6,	Basic or supplementary insulation:	5, 6, 6, 6, 6,	N/A
XO XO	Required creepage	O 40 40 40 40	_
X X	Measured:	X X X X X	N/A
No No	Supplementary information	to the to the ten	<u> </u>
	Reinforced insulation:		N/A
	Required creepage:		d —
20 20	Measured:	0 20 20 20 20	N/A
6, 6,	Supplementary information	5 6 6 6 6	
(P.2.3)	Creepage distances for working voltages with freq P.2)	uencies above 30 kHz (Table	N/A
XO XO	Voltage Û _{out} kV	0 00 00 00	_
4. 4.	Frequency::	4. 4. 4. 4.	_
10 VC	Required distance:	to the the the	-
20 20	Measured:	0 20 20 20 20	N/A
4, 4,	Supplementary information	5 6, 6, 6, 6,	4 _
(P.2.4)	Compliance with the required creepage distances	TO YO YO YO	N/A
(P.2.4.1)	Compliance in accordance with 16.3.3 and test according P.2.4.2		N/A
(P.2.4.3)	Electrical tests after conditioning	4, 4, 4, 4, 4,	N/A
(P.2.4.3.1)	Insulation resistance and electric strength according Clause 11 and 12	to do do do do	N/A
(P.3)	Distance through isolation	20 20 20 20 20	N/A
(P.3.4)	Electrical tests after conditioning	2 4 4 4 4	N/A
(P.3.4.1)	Insulation resistance and electric strength according Clause 11 and 12	to to to to to	N/A
(P.3.4.2)	Impulse voltage dielectrical test	20 20 20 20 20	N/A
8, 8,	Basic or supplementary insulation:	5, 6, 6, 6, 6,	N/A
XC XC	Working/rated voltage	0 00 00 00 00	_
X X	Impulse voltage:	(N/A
X0 X0	Supplementary information	to to to to to	<u> </u>
	Reinforced insulation:		N/A
\$ \$ P	Working/rated voltage:		<u> </u>
20 20	Impulse voltage:	0 0 0 0 0 0	N/A
6, 6,	Supplementary information	5, 6, 6, 6, 6,	(



6	8	2 4 4 6 6 E	N 61347-2-11	8, 8,
Clause	e 💎	Requirement + Test	Result - Remark	Verdict

ANNEX 1	1 TABLE: Critical components information										
Object/par t No.	Code Manufacturer/ trademark		Manufacturer/ trademark Type/ Technical data model								
CN2	В	Dongguan Changhe Electronics Co., Ltd.	CA350-00- 500, CA350-04- 500	250VAC; T110; 2.5mm²	EN60998-1 EN60998- 2-1	VDE 40021481					
CN1)	\$10	Dong Guan Dieran Electronics Science and Technology Co., Ltd.	DA250	300VAC; 0.2- 1.5mm²; 105°C	EN 60998-1 EN 60998- 2-2	VDE 40031801					
PCB	B,C	Goldenmax International Technology (Zhuhai) Ltd	GDM-R1, ILM-R1	V-0, 130°C	UL 796	UL E330731 Tested with appliance					
SW1	D	Yueqing Purple Ocean Eletronics factory	KGA6*6	DC 12 V, 50mA 60 °C 40000- 50000times	EN 61058	Tested with appliance					

Supplementary information:

The codes above have the following meaning:

- The component is replaceable with another one, also certified, with equivalent characteristics
- B The component is replaceable if authorised by the test house
- C Integrated component tested together with the appliance
- D Alternative component

ANNEX 2	2 Screw terminals (part of the controlgear)							
(14)	SCREW TERMINALS (IEC 60598-1)		Р					
(14.2)	Type of terminal	See annex 1	_					
20 20	Rated current (A)	See annex 1	_					
(14.3.2.1)	One or more conductors	5, 5, 5, 5, 5	N/A					
(14.3.2.2)	Special preparation	1 40 40 40 40 V	N/A					
(14.3.2.3)	Terminal size		N/A					
1 1 1 m	Cross-sectional area (mm²):	2 2 2 2 2 2 C						
(14.3.3)	Conductor space (mm):	0	N/A					
(14.4)	Mechanical tests	4, 4, 4, 4, 4	N/A					
(14.4.1)	Minimum distance	1 20 20 20 20 2	N/A					
(14.4.2)	Cannot slip out	0 20 20 20 20	N/A					
(14.4.3)	Special preparation	2 2 5 5	N/A					
(14.4.4)	Nominal diameter of thread (metric ISO thread):	M C C C C	N/A					
C C	External wiring		N/A					
8 8°	No soft metal	\$ \$ \$ \$ \$ \$	N/A					
(14.4.5)	Corrosion	0 20 20 20 20	N/A					

¹⁾ Provided evidence ensures the agreed level of compliance. See OD-CB2039.

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Clause	lause Requirement + Test Result - Remark								
(14.4.6)	Nominal diameter of thread (mm)		N/A						
C. C.	Torque (Nm)		N/A						
(14.4.7)	Between metal surfaces		N/A						
X0 X0	Lug terminal	0 20 20 20 20	N/A						
4 4	Mantle terminal	4. 6. 6. 6.	N/A						
10 10	Pull test; pull (N)		N/A						
(14.4.8)	Without undue damage	0 20 20 20 20	N/A						

ANNEX 3 Screwless terminals (part of the controlgear)								
(15)	SCREWLESS TERMINALS (IEC 60598-1)							
(15.2)	Type of terminal:							
10 10 O	Rated current (A):	1 40 40 40 40 40 1	_					
(15.3.1)	Material	0 20 20 20 20	N/A					
(15.3.2)	Clamping	6, 6, 6, 6,	N/A					
(15.3.3)	Stop	o the the the the	N/A					
(15.3.4)	Unprepared conductors		N/A					
(15.3.5)	Pressure on insulating material	\$ \$ \$ \$ \$ \$	N/A					
(15.3.6)	Clear connection method	10 10 10 10 10 10 10 10 10 10 10 10 10 1	N/A					
(15.3.7)	Clamping independently		N/A					
(15.3.8)	Fixed in position	1 40 40 40 40 40 4	N/A					
(15.3.10)	Conductor size	0 20 20 20 20	N/A					
6, 6,	Type of conductor	6, 6, 6, 6,	N/A					
(15.5)	Terminals and connections for internal wiring	and the teacher	N/A					
(15.5.1)	Mechanical tests	5 7G 7G 7G 7G	N/A					
(15.5.1.1.1)	Pull test spring-type terminals (4 N, 4 samples):	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	N/A					
(15.5.1.1.2)	Pull test pin or tab terminals (4 N, 4 samples):	10 40 40 40 A	N/A					
C. C.	Insertion force not exceeding 50 N		N/A					
(15.5.1.2)	Permanent connections: pull-off test (20 N)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A					
(15.5.2)	Electrical tests	0x 0x 0x 0x	N/A					
6, 6,	Voltage drop (mV) after 1 h (4 samples):	4. 6. 6. 6.	N/A					
\$10 \$10	Voltage drop of two inseparable joints		N/A					
0 0	Number of cycles:							



3 3					EN 6134	7-2-11		` `			· ·	
Clause	Requir	ement +	Test	exo «	40 M	, KO	Resu	ılt - Rema	ark	é _{ZO}	Verdict	
Sic Sic				r 10th alt.			\$ C	Sign Sign	o orc	& C	N/A	
410 410				r 50th alt.			370	\$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	N. S.	8/10	N/A	
Sto Sto				rop (mV)				10 of	4/0	870	N/A	
40 40	After a	geing, vo	oltage di samples	rop (mV)	after 50th	n alt.	200	1° 1	470	200	N/A	
(15.6)	Termir	inals and connections for external wiring										
(15.6.1)	Condu		0. 0.	-	C. (· C.	C. C	- C	100	N/A	
61 610	Termir	nal size a	and ratin	g	E & E	Q.	8	5 ST	0	Silver I	N/A	
15.6.2		nical tes		>C1	-Ci -C	5 .0	-0	2C1 2C	5 JC1	JC1	N/A	
(15.6.2.1)				minals or				20 0	\$\frac{1}{2}	8	N/A	
(15.6.2.2)	Pull test pin or tab terminals (4 samples); pull (N)								N/A			
(15.6.3)								8	N/A			
(15.6.3.1)	Tests a	accordin	g 15.6.3	.1 + 15.6	.3.2 in IE	C 60598	-1	X6 X	5 70	70	N/A N/A	
(15.6.3.1)	TABLE	E: Conta	ct resis	tance tes	st / Heati	ng tests	8,				IV/A	
	Voltage	e drop (n	nV) after	1.h							_	
terminal		1	2	3	4	5	6	7	8	9	10	
voltage drop	(mV)		6	Q (F (1)	0	Q .	1	0	Q'	V 0	
2G 2G	Vo	Itage dro	p of two	insepara	ble joints	0 , 0	20	20 Z0	5 20	χG	20 20	
6, 6,	0 0				- 0	0	8	5, 6,	4)	4	4, 6,	
X0 X0		-C - 1	<u> </u>	ge drop (r	-0-0	1	X0 .	X0 X	3 10	70	_	
terminal	16	1	_	3	4	5	6	7	8	9	10	
A1 A1	(m)()	· •	0.	0 <	. 0	0.	Q \ (0	0	0	
voltage drop	-	Voltage drop after 50th alt. 100th cycle										
	Q	(· · · · · · · · · · · · · · · · · · ·	- 4	4	 	9	Ó.			<i>€</i> ~		
-0, -0,	Ma			ge drop (r	11.1	1	0	-CiC				
terminal		1	2	3	4	5	6	7	8	9	10	
voltage drop	(mV)	20 X	ں ہے د	X0 .	30 X	0 0	20	KO K	0 0	20	KO K	
× ×	Co	ntinued a	ageing: v	voltage di	rop after	10th alt.	25th cyc	le	× .	X	Y .	
Sto Sto	Ma	x. allowe	ed voltag	ge drop (r	nV)		or o	500 ST	1 W	8 TO	< -	
terminal		1	2	3	4	5	6	7	8	9	10	
voltage drop	(mV)	5, 6,	6,	6, 4	(6)	8,	6,	6,	6,	6	6, 6,	
XO XO	-	ntinued a	ageina: v	voltage di	rop after	50th alt.	100th cv	cle	0 40	20	KO K	
6. 6.	9	~ ~	- 2-	ge drop (r	< - 2	9	0,11	5 0	-6,	8,	_	
terminal		1	2	3	4	5	6	7	8	9	10	



	Clause	Requi	irement	t + Test	6 %	S.C.	40	& CO	Res	sult - R	emark	610	200	Ver	dict
50	20 VC	50	KO K	50 5	0 80	×0	50	\$1°	50	80	550	50	o'C	KO	550
.0	Supplementa	ry inforr	mation:		0 56	»Cı	-0		20	20	0		-61	»Cı	



EN 61347-2-11							
Clause	Requirement + Test	Result - Remark	Verdict				

Appendix 1: Normal and Abnormal operation	C PSO
	0 0

Clause 15.2 Normal operation	Duration: Operated unit Operation: Heating tes Model:RSRMEV2300-	t is under ta condition.			
Test voltage:12	2 x 1.06 =12.72V DC	Input: 5.12W 0.402A+Through-char	nnel load:30W		
ta=40°C	X X X	X X X X X X	4 4 4 4 4 4		
Thermocouple	point	Measured temperature (°C)	Limit temperature (°C)		
CH1	0 40 40 40	48.6	0 105		
CH2	0 20 20 20	47.3	130		
PCB near U4	4 4 4	63.9	130		
PCB near Q1	is the test	64.4	130		
PCB near Q2	0 00 00 0	68.3	130		
PCB near D1		62.5	130		
SW1	5 40 40 40	46.3	70		
Support	6 40 40 40	48.4	90 %		
Ambient	0 0 0 0	40.0	70 70 70 70 7		

	20 20 20									20	(Yes	No)
Part	Simulated fault	S. C.	S. C.	Silver Silver	8/10	S.C.	ST.	S. C.	S. C.	Q.	Haza	ard
Short-circuit	X X X									×		
Annex L.7	NO NO NO									20		
operation	6, 6, 6,									6		
Abnormal	Operation:Heatin	ig test	is und	er ta c	onditio	n.				20		
Clause 15.3	Duration : Operat	ed unti	il stead	dy con	ditions	· Silv				S.	N/A	A ₍ ()

Clause	L.7	Di	uration	: Oper	ated u	ntil ste	ady co	ndition	ıs.					20	N	/A
Overlo	ad	O	peratio	n: Hea	ating te	est is u	nder ta	condi	tion.						Χ.	
Model:	RSR	MEV	2300-	sc	Q	Q.	Q.	Q'	Q.	Q.	Q.	8	Q.	Q.	Q.	Q'
20	50	20	50	20	20	30	30	50	20	30	50	70	200	20	50	35



5, 5,	8 8 8 8 E	N 61347-2-11	5, 6, 6,
Clause	Requirement + Test	Result - Remark	Verdict

Thermocouple point	Measured temperature (°C)	Limit temperature (°C)
ta= °C	tc= °C	NO NO NO NO NO
	Input wattage:	
	Result:. Input current:	
Test voltage:	Test condition: Output overload test is un	der at ta condition.



8, 8,	EN CONTRACTOR	61347-2-11	6, 6,
Clause	Requirement + Test	Result - Remark	Verdict

Table: Creepage distances and cleara	ances	, 500 c	to st	\$10 A	STO STO	\$10 B	N/A
clearance cl and creepage distance cr at/of:	Up (V)	U r.m.s.	require d cl	CI (mm)	require d cr	Cr (mm)	Verdict
	X0 X0	×0.	(mm)	NO .	(mm)	10 S	6 K
Different polarity between L and N (BI)	KOKG	, o.	KOK	, o.	KO K	, o	(O)(
Different polarity under Fuse (BI)	2	<u></u>			`		
Primary L trace to metal enclosure (BI)	4/0 6/C	\$ <u>20</u> 4	40 41	\$ C	₹04×	4 <u>70</u> 4	60 -81

Remark

- 1. The working voltage of mains transformer is 240Vrms, 640Vpeak.
- 2. For the transformer information, see TABLE: transformers
- 3. Insulation type: BI Basic Insulation; SI Supplementary Insulation; RI Reinforced Insulation



Q Q	EN 6	1347-2-11	2 6 6
Clause	Requirement + Test	Result - Remark	Verdict

Appendix 3 Additional requirement of IEC 60598-1	N/A
--	-----

4	Mechanical strength	N/A
4.13.1	Impact tests:	N/A
× ×	- fragile parts; energy (Nm)	N/A
\$ \$ \$ \$	- other parts; energy (Nm)	N/A
20 ZO	1) live parts	N/A
6, 6,	2) linings	N/A
50 50	3) protection	N/A
0.0	4) covers	N/A

5,0	External and internal wiring	N/A
40 40	Tested with conductor of the smallest and largest section to the input / output terminal.	
5.2.10.3	Tests:	N/A
6, 6,	- impossible to push cable; unsafe	N/A
NO NO	- pull test: 25 times; pull (N)	N/A
.00	- torque test: torque (Nm)	N/A
\$ \$	- displacement ≤ 2 mm	N/A
NO NO	- no movement of conductors	N/A
× × ×	- no damage of cable or cord	N/A



Attachment 1 IEC61347_2_11B -ATTACHMENT

Report No.: PTC23071200201S-LD01

ATTACHMENT TO TEST REPORT IEC 61347-2-11 EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES

Part 2: Particular requirements

Section Eleven - Miscellaneous electronic circuits used with luminaires

Differences according to.....: EN 61347-2-11:2005 used in conjunction with

EN 61347-1:2008

Attachment Form No.....: EU GD IEC61347 2 11B

Attachment Originator....:: IMQ SpA

Master Attachment...:: Date 2009-10

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(16)	CREEPAGE DISTANCES AND CLEAR	-0-		-570		500	N/A
	Minimum distances for a.c. (50/60	Hz) sinu	soidal volt	ages			N/A
RMS w	orking voltage (V) not exceeding	50	150	250	500	750	1000
diffe	mum distances between live parts of rent polarity. Specify the value sured.		40 40		40 40		
acce fixed scre the I	mum distances between live parts and essible parts which are permanently to the lamp control gear, including ws or devices for fixing covers or fixing amp control gear to its support. Specify value measured.					, 40°	
prote betw	mum distances for ballasts declared ected against accidental contact veen live parts and the outer accessible ace of insulating parts	&C	% %	SIC SIC	\$ \$ \$	4°C	
	equired creepage distances (mm), Basic ation PTI ≥ 600	0,6	0,8	1,5	3	₹4	5,5
	equired creepage distances (mm), Basic ation PTI < 600	1,2	1,6	2,5	5	8	10
	equired creepage distances (mm), olementary insulation PTI ≥ 600	éro.	0,8	1,5	3	4	5,5
	equired creepage distances (mm), blementary insulation PTI < 600	, CO	1,6	2,5	5	8	10
	equired creepage distances (mm), forced insulation	XO.	3,2	5	6	8	11
diffe	mum distances between live parts of rent polarity. Specify the value sured.	&C		4 C	40 40	, V.C.	
acce fixed scre the I	mum distances between live parts and essible parts which are permanently to the lamp control gear, including ws or devices for fixing covers or fixing amp control gear to its support. Specify value measured.	10 x		\$ PC			
prote betw	mum distances for ballasts declared ected against accidental contact veen live parts and the outer accessible ace of insulating parts	\$10	K, K,	& Co	€0 €0	Sto.	



Attachment 1 IEC61347_2_11B -ATTACHMENT

- required clearance distances (mm), Basic insulation	0,2	0,8	1,5	3	4	5,5
- required clearance distances (mm), Supplementary insulation	₹ <u>1</u> 3	0,8	1,5	3	4	5,5
- required clearance distances (mm), Reinforced insulation	Q= 4	1,6	3	6	8	110



Attachment 2

Report No.: PTC23071200201S-LD01

Product Photo Model: RSRMEV2300-SC

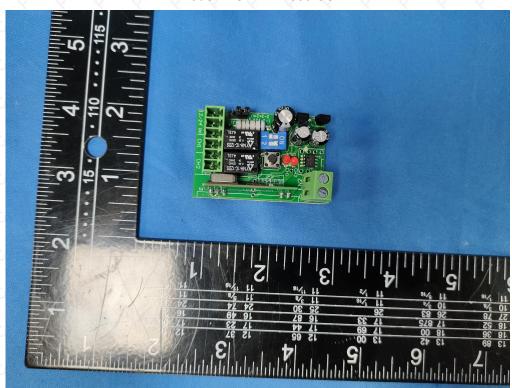


Photo 1 The overview for Switch on the power supply control module

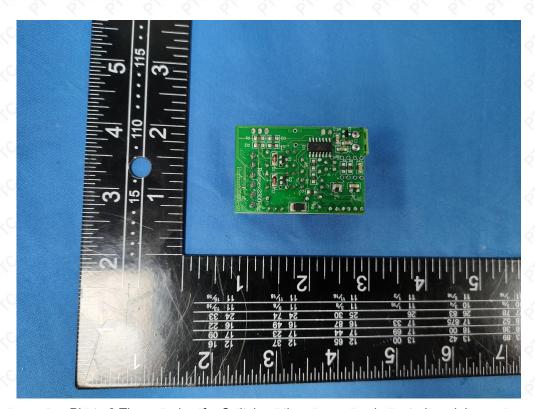


Photo 2 The overview for Switch on the power supply control module



Attachment 2

Report No.: PTC23071200201S-LD01

Product Photo Model: RSRMEV2300-SC

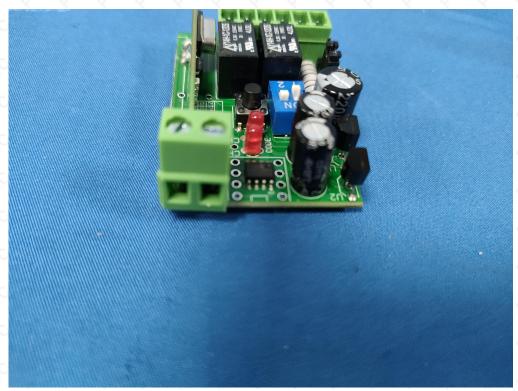


Photo 3 The Internal view for Switch on the power supply control module

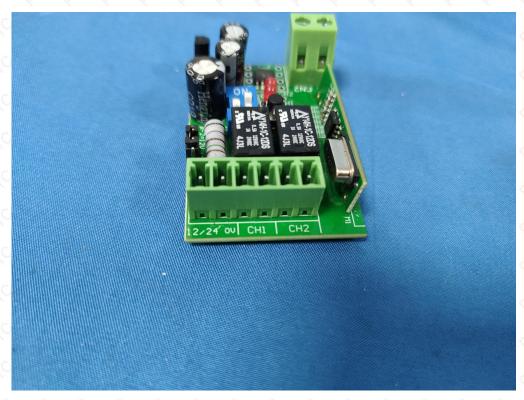


Photo 4 The overview for Switch on the power supply control module

===== End of Report =====