

# **VERIFICATION OF COMPLIANCE**

No.:	GPSD GZES2207014217AT
Applicant:	DFUN (Zhuhai) Co., Ltd. No. 1, Keji 4 Road, Tangjia Hi-tech Zone, Zhuhai, 519085 Guangdong, China
Manufacturer:	Same as applicant.
Product Name:	Current Transformer
Model No.: Rating:	QLC-16, QLC-32, QLC-45, QLC-70, QLC-90 See page 2
Protection against Electric Shock:	Not classified
Additional Information (if any):	Build-in equipment

Sufficient samples of the product have been tested and found to be in conformity with

Test Standard:	EN 61010-1:2010 + A1: 2019
as shown in the	GZES220701421701

Test Report Number(s):

This Verification of GPSD Compliance has been granted to the applicant based on the results of tests performed by Laboratory of SGS-CSTC Standards Technical Services Co., Ltd. on sample of the abovementioned product in accordance with the provisions of the relevant specific standards and the General Product Safety Directive 2001/95/EC.

David Guo Senior Technical Manage

2022-09-16

SGS-CSTC

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No.:

#### GPSD GZES2207014217AT

Other information added: Rating:

Model	Rated Input (A)	Secondary Output	Ratio
QLC-16	10-100A	0,1A	1000:1
QLC-32	50-600A	0,1A	6000:1
QLC-45	100-1000A	0,1A	10000:1
QLC-70	600-2000A	0,1A	20000:1
QLC-90	1000-3000A	0,1A	30000:1

midge David Guo

Senior Technical Manager

2022-09-16

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#### Report No: GZES220701421701 Date: 2022-09-15

The following sample(s) was/were submitted and identified on behalf of the client as:

Applicant :	DFUN (Zhuhai) Co., Ltd. No. 1, Keji 4 Road, Tangjia Hi-tech Zone, Zhuhai, 519085 Guangdong, China
Manufacturing location (factory):	Same as applicant.
Testing location/address:	SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch 198 Kezhu Road, Science City, Economic & Technology Development Area, Guangzhou, Guangdong, China
Test object :	Current Transformer
Model :	QLC-16, QLC-32, QLC-45, QLC-70, QLC-90
Test specifications / Test standard :	EN 61010-1:2010 + A1: 2019
Purpose of examination :	Test according to the test specification.
Test result :	In the opinion of SGS-CSTC the presented appliance was found to be in compliance with the test specification.
Remark :	Throughout this report a comma is used as the decimal separator

Anne

Anlay Dong Project Reviewer Safety Laboratory

Tang Ben

Ben Tang Project Engineer



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or email: C+C-D09600F8208-C0007 (NSK8/star/kmst, Samkah/Rst, Gasapia) Econnote Steichnoby:DevelopmentDatict, Gaargahu, China 510663 t (86-20) 82155555 f (86-20) 82075058 www.sgsgroup.com.cn 中国・广州・经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com



#### Report No: GZES220701421701 Date: 2022-09-15

#### 1. Function / Description :

Current Transformer is a device used for monitoring the induced current and intended for build-in.

Special enclosure consideration should be given to the end-use installation.

The end-use product should be reviewed to determine whether accessibility requirements are met for the end-use product.

#### Model difference

All models are identical in electrical and mechanical construction except for model name, input current, ratio, load and size, see below for details.

Model	Rated Input	Secondary	Ratio	Load (Ω)	Accuracy		Size (mm)	
WOUEI	(A)	Output	Natio	LUAU (32)	Accuracy	А	В	С
QLC-16	10-100A	0,1A	1000:1	≤100	0,2	16,0	30,0	20,0
QLC-32	50-600A	0,1A	6000:1	≤200	0,2	32,0	60,0	20,0
QLC-45	100-1000A	0,1A	10000:1	≪200	0,2	45,0	88,0	24,0
QLC-70	600-2000A	0,1A	20000:1	≪200	0,2	70,5	105,5	20,3
QLC-90	1000-3000A	0,1A	30000:1	≤200	0,2	90,0	135,0	32,0



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### Report No: GZES220701421701 Date: 2022-09-15

#### 2. Test item particulars :

RatingsSeeType of itemMeDescription of equipment functionMoConnection to mains supplyNotOvervoltage categoryNotPollution degree2Means of protectionNotEnvironmental conditionsAmFor use in wet locationsNotEquipment mobilityBuilOperating conditionsConOverall size of equipment (W x D x H)SeeMass of equipment (kg)Mo

Marked degree of protection to IEC 60529

See model difference for details Measurement Monitoring the induced current None 2 Not classified Ambient: -25 – +60 °C No Built in Continuous See model difference for details Models QLC-16: 0,04 Models QLC-45: 0,18 Models QLC-90: 0,60 N/A



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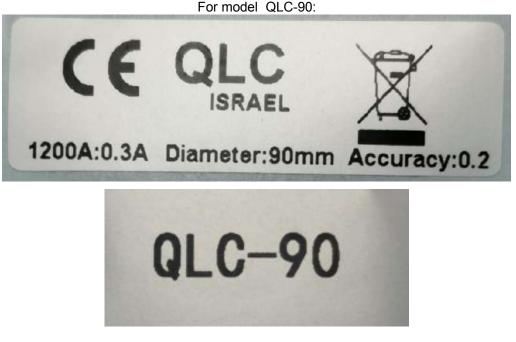
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#### Report No: GZES220701421701 Date: 2022-09-15

#### 3. Label :

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.



Remark:

1. The marking plate for the other models are identical with above except for model name and rating.

2. The Height of CE logo shall not be less than 5 mm; Height of WEEE logo shall not be less than 7 mm.

3. As declared by the applicant, the importer (and manufacturer, if it is different)'s name, registered trade name or registered trademark and the postal address will be marked on the products before being place on the market. The contact details shall be in a language easily understood by end-users and market surveillance authorities.

4. Marking on the packaging or in a document accompanying the electrical equipment is only acceptable if it is not possible to place such markings on the product.



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### Report No: GZES220701421701 Date: 2022-09-15

#### 4. Test :

The test was done in the Electrical Safety Laboratory of SGS-CSTC in Guangzhou.

These tests fulfil the requirements of standard ISO/IEC 17025.

When determining the test conclusion, the Measurement Uncertainty of test has been considered.

After reviewed, models QLC-16, QLC-45 and QLC-90 were selected for the full test representative

The max. recommended ambient temperature is 60 °C declared by manufacturer.

As declared by manufacture, normal steady loading test status at below:

For model QLC-16: primary input current 100 A and secondary output current 0,1 A For model QLC-45: primary input current 120 A and secondary output current 0,1 A For model QLC-90: primary input current 120 A and secondary output current 0,1 A

Possible test case verdicts:

Test case does not apply to the test object :	N/A (or N)
Test item does meet the requirement :	P(ass)
Test item does not meet the requirement :	F(ail)

Testing :

Date of receipt of test item :	2022-07-22
Date(s) of performance of tests :	2022-07-22 - 2022-09-13



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### Report No: GZES220701421701 Date: 2022-09-15

Clause	Requirement	Remarks	Verdict
4	Tests		Р
5	Marking and documentation		Р
6	Protection against electric shock	Build-in equipment, it shall be considered in the end- product.	N/A
7	Protection against mechanical HAZARDS	No sharp edges	Р
8	Resistance to mechanical stresses	Build-in equipment, it shall be considered in the end- product.	N/A
9	Protection against the spread of fire		Р
10	Equipment temperature limits and resistance to heat		Р
11	Protection against HAZARDS from fluids		N/A
12	Protection against radiation, including laser sources, and against sonic and ultrasonic pressure		N/A
13	Protection against liberated gases and substances, explosion and implosion		N/A
14	Components and subassemblies		Р
15	Protection by interlocks		N/A
16	HAZARDS resulting from application		N/A
17	RISK assessment		N/A
Annex A	Measuring circuits for touch current (see 6.3)		N/A
Annex B	Standard test fingers (see 6.2)		N/A
Annex C	Measurement of CLEARANCES and CREEPAGE DISTANCES		N/A
Annex D	Parts between which insulation requirements are specified (see 6.4 and 6.5.3)		N/A
Annex F	ROUTINE TESTS		N/A
Annex H	Qualification of conformal coatings for protection against POLLUTION		N/A
Annex K	Insulation requirements not covered by 6.7		N/A



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5.1.3c	;)	TABL	E: MAINS SUP	oly			Form A.2	N/A
		Marke	ed rating	· · · ·		V		
		Phase	Э	:				
		Frequ	iency	:		Hz		
		Curre	nt	······		A		
		Powe	r	······		W		
		Powe	r	· · · ·	VA			
Test	Vol	tage	Frequency	Current	Pov	wer	Comments	
No.	[	V]	[Hz]	[mA]	[mW]	[VA]		
1								
NOTE	E – Me	asuren	nents are only	required for I	marked rating	js.	•	
Supple	ement	ary info	ormation:					



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### Report No: GZES220701421701 Date: 2022-09-15

6.7	TABLE: Ins Clearances				ls-					For	m A.15	N/A
6.2.2	Examinatio	n				6.5.4	Protective	impedan	се			_
6.4.2	ENCLOSURE	es and pr	otective	barri	ers	6.5.6	6.5.6 Current- or voltage-limiting device					—
6.4.4	4 Impedance					9.6.1	BASIC INSU	ILATION be	etween op	posite (	polarity	—
Area	Location	Insulation type	on Wor	RKING (NOT	VOLTAGE TE <b>2</b> )	Clea	Clearance Creepage		epage	CTI	Verdict	Comments
	(See Form A.14)	(NOTE 1	I) RMS [V]	Peak [V]	Frequency [kHz]	Require [mm]	dMeasurec [mm]	Required [mm]	Measured [mm]			
	1 – refer to l for definition						the insulat	ion diagra	am		Note	2 - to be
	supply ge:	V	H	Hz								
Supp	lementary inf	formation	ו:									



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### Report No: GZES220701421701 Date: 2022-09-15

6.7		TABLE: Insulation requirements- Clearances and Creepages									F	orm A.1	6 N/A				
6.4.2	2 Е	ENCLOSU	RES OF PRO	TECTIVE B	ARRIERS			9.6.1		rent protect MAINS part	protection basic insulation		—				
8	N	Mechani	cal resistar	nce to sho	ce to shock and impact				Integrity distance		ICES and CF	REEPAGE	—				
Area	Loc	ation	Insulation type	Ν	<i>l</i> echani	cal tests	(NOTE)	DTE) Test at Measured after test Vero max. (if required)				Verdict	Comments				
	•	See Form A.14)						Applied force	-	idity .2)	Dr (8.	•	RATED ambient	Clearance	Creepage distance		
				N	Static (8.2.1)	Impact (8.2.2)	Normal (8.3.1)	Hand- held/ Plug- in	(10.5.1)	mm	mm						
	-																
			orm A.18 f	or dielect	ric strer	igth test	s followir	ig the al	bove tests	S.							
Suh	Jennel		ornation.														



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### Report No: GZES220701421701 Date: 2022-09-15

10.	TABLE :	TABLE : Temperature Measurements Form A.26A										
10.1	Surface temperature limits – NORMAL CONDITION and / or SINGLE FAULT CONDITION											
10.2	Temperature of windings – NORMAL CONDITION and / or SINGLE FAULT CONDITION											
10.3	Other ter	nperature me	asuren	nents						Р		
Operating conditions:		For model Q primary input						teady loadine	g test st	atus at		
Frequency	:	Hz	Test ro	om ambi	ent temp	erature (ta	ι):	25 °C				
Voltage	:	V	Test d	uration			:	2 h 0	)7 min			
	Part / Lo	ocation		<i>t</i> m [°C]	t₀ [°C]	<i>t</i> <sub>max</sub> [°C]	Verdict	Cor	mments			
Winding of	Line filter			33,6	68,6	130	Р					
Secondary	output cor	ď		29,2	64,2	80	Р					
Non-metalli	c enclosu	re surface		29,4	64,4	Ref.	Р					
ambient) t <sub>max</sub> NOTE 2 - NOTE 3 - additional fo	t <sub>m</sub> correct = maximu see a Reco prm if nece see F	orm A.26B fo	°C max temper referer NORMA	ature ature nce to cor L CONDITIO	on and / o	OF SINGLE F	AULT CONE	DITION in this	Form us	e		



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10.	TABLE : Temperature Measurements Form							Form A.26A	Р	
10.1	Surface	temperature I	imits –	NORMAL C	IORMAL CONDITION and / or SINGLE FAULT CONDITION					
10.2	Tempera	emperature of windings – NORMAL CONDITION and / or SINGLE FAULT CONDITION								
10.3	Other ter	mperature me	easuren	nents				Р		
Operating conditions:		For model QLC-45: as declared by manufacture, normal steady loading test sta primary input current 1000 A and secondary current 0,1 A							atus at	
Frequency Hz Test r			Test ro	om ambi	ent temp	erature (ta)	25 °C			
Voltage	:	V	Test d	uration			:	2 h 07 min		
Part / Location				<i>t</i> <sub>m</sub> [°C]	t <sub>c</sub> [°C]	t <sub>max</sub> [°C]	Verdict	Comments		
Winding of Line filter				35,7	70,7	130	Р			
Secondary output cord				31,2	66,2	80	Р			
Non-metallic enclosure surface				30,4	65,4	Ref.	Р			
tc = ambient) t <sub>max</sub> NOTE 2 -	t <sub>m</sub> correct = maximu see a Recc orm if nece see F	essary Form A.26B fo	°C max temper referer NORMA	k. RATED ature nce to cor L CONDITIO	DN and / O	or Single F	AULT CONE	DITION in this Form us	e	



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10.	TABLE : Temperature Measurements Fe							Form A.26A	Р
10.1	Surface	temperature I	imits - NORMAL CONDITION and / or SINGLE FAULT CONDITION						
10.2	Tempera	emperature of windings – NORMAL CONDITION and / or SINGLE FAULT CONDITION							
10.3	Other ter	mperature me	easuren	nents					Р
Operating conditions:		For model QLC-90: as declared by manufacture, normal steady loading test sta primary input current 3000 A and secondary current 0,1 A						atus at	
Frequency Hz Test r		Test ro	om ambi	ent temp	erature (ta)	25 °C			
Voltage	:	V	Test d	uration			:	2 h 07 min	
Part / Location			<i>t</i> <sub>m</sub> [°C]	t <sub>c</sub> [°C]	t <sub>max</sub> [°C]	Verdict	Comments		
Winding of Line filter				38,1	73,1	130	Р		
Secondary output cord				32,9	67,9	80	Р		
Non-metallic enclosure surface				31,2	66,2	Ref.	Р		
tc = ambient) t <sub>max</sub> NOTE 2 -	t <sub>m</sub> correct = maximu see a Reco orm if nece see F	essary Form A.26B fo	°C max temper referer NORMA	(. RATED ature nce to cor L CONDITIO	DN and /	or Single F	AULT CONE	DITION in this Form us	e



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### Report No: GZES220701421701 Date: 2022-09-15

#### 5. Component List

object/part No.	manufacturer/ trademark	type/model	technical data	standard	mark(s) of conformity <sup>1</sup> )
Plastic enclosure	CHANG CHUN PLASTICS CO LTD	4830	V-0, 75 °C, min. thickness 3,0 mm		UL (E59481)
Internal winding	SHANDONG SAINT ELECTRIC CO LTD	2UEW	Min. 130 °C		UL (E194410)
External cord	HIP TAI ELECTRIC WIRE CO	2464	300 V, 80 °C, min. 22 AWG		UL (E225804)



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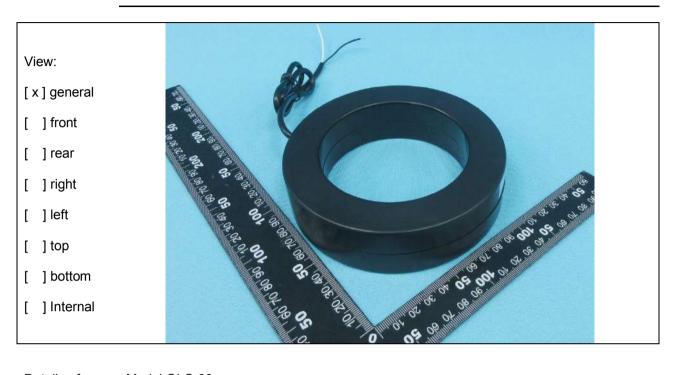


#### Report No: GZES220701421701 Date: 2022-09-15

6. Photo document

Details of:

Model QLC-90



Details of:

Model QLC-90





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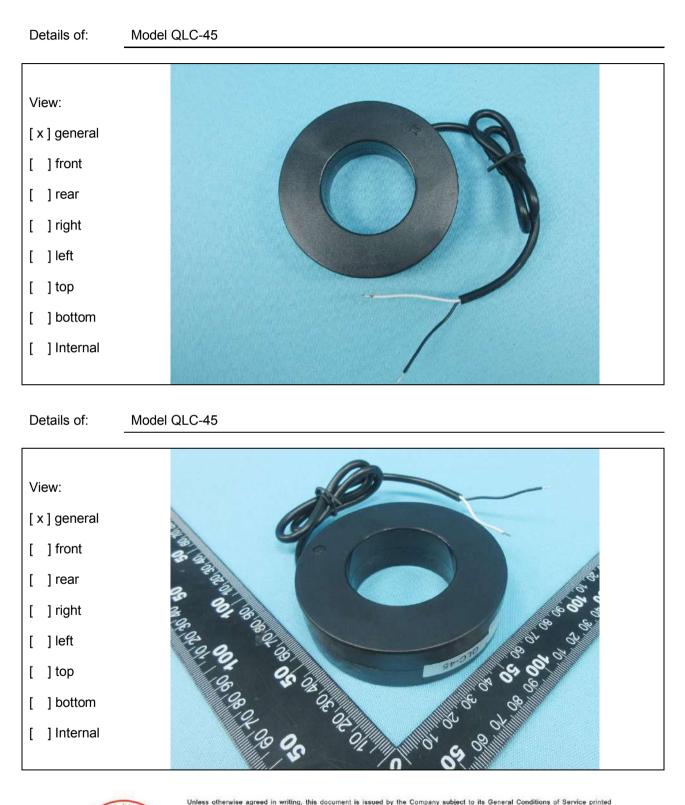
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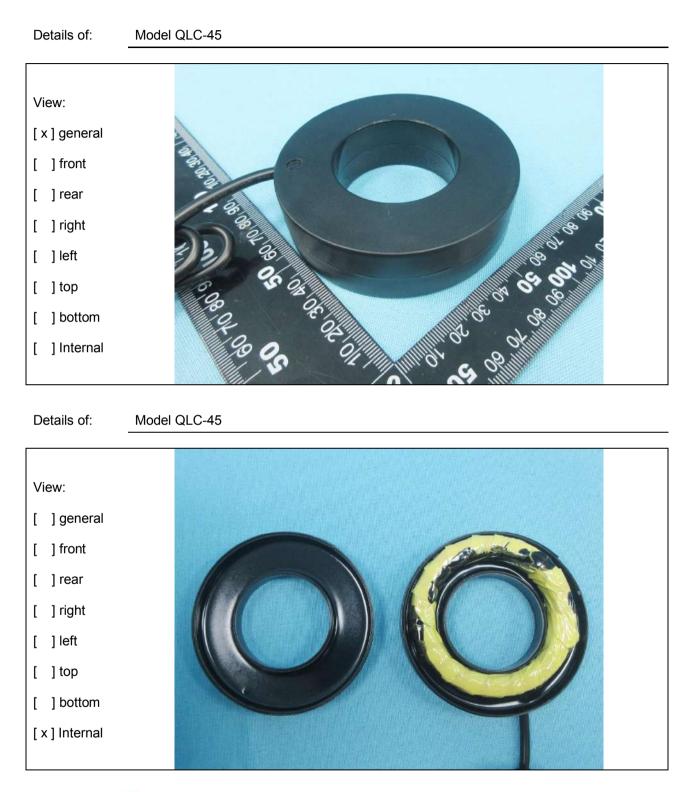
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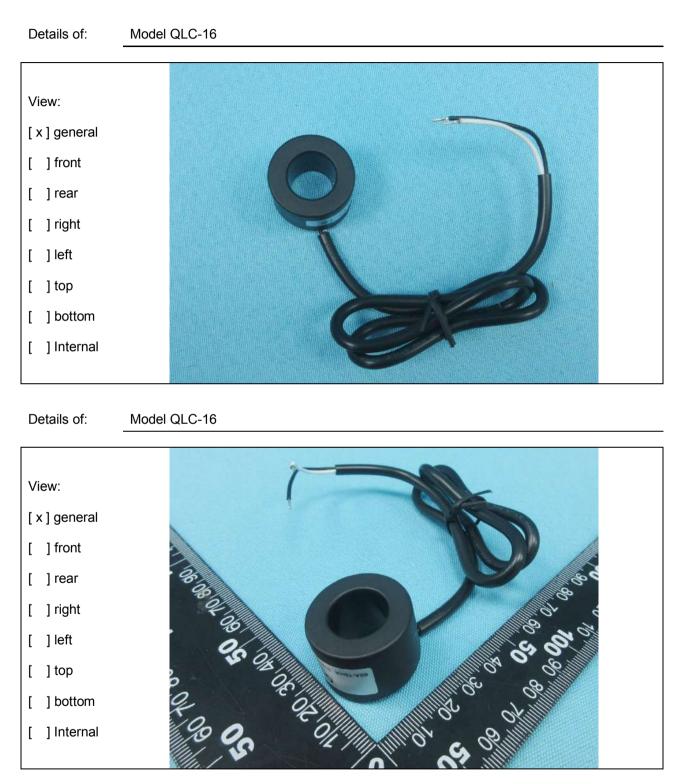


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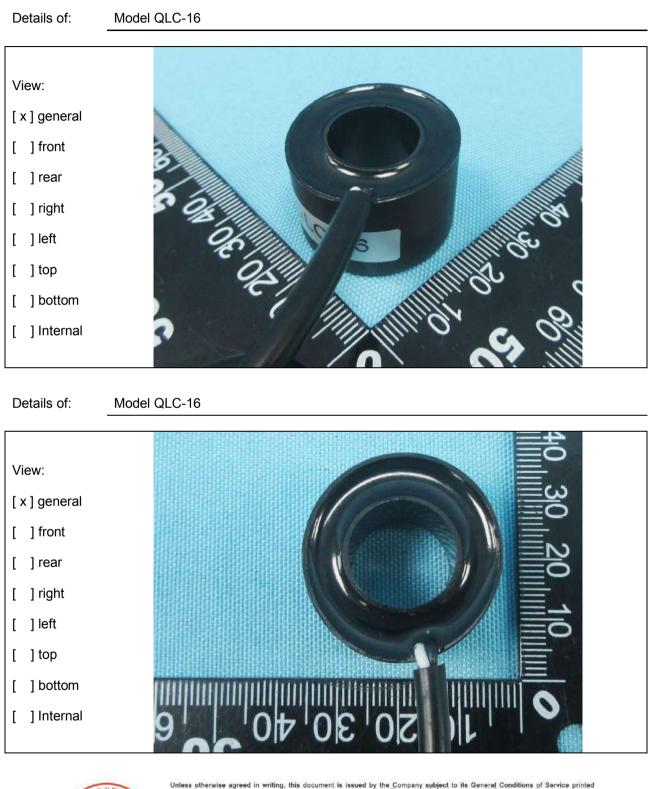
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#### NOTES TO THIS TEST REPORT

- 1. The following language(s) of marking(s) and instruction sheets were submitted during the test application:
  - English
  - Throughout this report a comma is used as the decimal separator.

According to the standard, instruction sheets and other texts required by the standard should be written in the official language(s) of the country in which the product is to be sold. The applicant should ensure that the product in future production fulfils the receptive standard requirements.

- 2. The components performed satisfactorily during testing and are considered to be suitable for use in the sample tested. Acceptances of the safety critical components and materials were based on:
  - the certification record(s) and/or test report submitted by the applicant; or
  - component / material tested with the appliance
- 3. Plug (and socket) used in this product must be compiled with the local plug and socket regulation of the respective country.

--- End of Report ---



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