



TEST REPORT

IEC 60950-1: 2005 (2nd Edition) and/or EN 60950-1:2006

Information technology equipment - Safety -

Part 1: General requirements

Report Reference No...... < T0909254-777 >

Tested by

(printed name and signature) Brian Chien

Approved by

(printed name and signature): Leslie Lai

Date of issue...... November 02, 2009

Testing Laboratory Name Cerpass Technology Corp.

Applicant's name...... VIVOTEK INC.

Taiwan, R.O.C.

Test specification:

Standard IEC 60950-1:2005 (2nd Edition) and/or

EN 60950-1:2006 + A11:2009

Test procedure Service of CE Marking in LVD

Non-standard test method...... N/A

Test item description Network Camera

Trade Mark

Manufacturer...... Same as applicant

Model/Type reference..... IP7361

48Vdc, 0.15A (Supplied by PoE)



Equipment mobility: Stationary

Connection to the mains: Not directly connected to the mains

Operating condition: Continuous

Over voltage category (OVC): OVC I Mains supply tolerance (%) or absolute mains supply N/A

values:

Tested for IT power systems: N/A

IT testing, phase-phase voltage (V): N/A

Class of equipment Class III

Considered current rating (A): N/A

Pollution degree (PD) PD 2

IP protection class: IPX0

Altitude during operation (m) < 2000 m

Altitude of test laboratory (m): < 2000 m

Mass of equipment (kg) 1.0kg (without bracket)

1.47kg (with bracket)

Possible test case verdicts:

- test object does meet the requirement P (Pass)

test object does not meet the requirement......
 F (Fail)

Testing

General remarks:

This report shall not be reproduced except in full without the written approval of the testing laboratory.

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

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

"(see Annex #)" refers to an annex appended to the report.

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

Factor(ies):

VIVOTEK INC.

5F, No.168, Lien-Cheng Rd., Chung-Ho City, Taipei County, Taiwan, R.O.C.



General product information:

This equipment, model IP7361, is a class III Network Camera, which is intended to use within information technology equipment.

Other comments:

The maximum operational ambient temperature as specified by the manufacturer is 50 °C.

The equipment is power supplied from PoE (Power over Ethernet) or external adaptor which provided AC or DC voltage.

The external adaptor which provided DC voltage is complied with the requirement of Limited Power Source.

Otherwise, the adaptors which are intended to be used with this equipment in the regional market should be stated in the specified manufacturers and models in the instruction and the warning caution "Use only power supplies listed in the manual" or "For applicable power supplies see user instructions" must be seated in the marking plate by suitable regional language during the end-use market.

There are specific installation instructions that this equipment should be connected to PoE networks without routing to the outside plant. In such cases, the PoE connected circuits of this equipment can be considered as SELV.

However, the external adaptor which provided AC voltage is not part of this approval. If an external adaptor is employed in this unit, all of the following item should be checked with the compliance.

- 1. To provide SELV and separate from hazardous voltage by double / reinforced insulation.
- 2. Output rating: AC 24V, 0.55A minimum.

Copy of marking plate:



The label drawing is a draft of an artwork for marking plates pending approval by National Certification Bodies and it shall be affixed to products prior to such an approval.

Page 4 of 51



	IEC/EN 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict	
1	GENERAL		P	
1.5	Components		P	
1.5.1	General	See below.	Р	
	Comply with IEC 60950 or relevant component standard	Components which were found to affect safety aspects comply with the requirements of this standard or with the safety aspects of the relevant IEC/EN component standards. See appended table 1.5.1.	Р	
1.5.2	Evaluation and testing of components	Components that are certified to IEC and /or national standards are used correctly within their ratings. Components not covered by IEC standards are tested under the conditions present in the equipment.	P	
1.5.3	Thermal controls	No thermal controls provided.	N/A	
1.5.4	Transformers	No safety isolation transformer in this equipment.	N/A	
1.5.5	Interconnecting cables	Interconnecting cables comply with the relevant requirements of this standard.	Р	
1.5.6	Capacitors bridging insulation	Class III equipment.	N/A	
1.5.7	Resistors bridging insulation	Class III equipment.	N/A	
1.5.7.1	Resistors bridging functional, basic or supplementary insulation	Same as above.	N/A	
1.5.7.2	Resistors bridging double or reinforced insulation between a.c. mains and other circuits	Same as above.	N/A	
1.5.7.3	Resistors bridging double or reinforced insulation between a.c. mains and antenna or coaxial cable	Same as above.	N/A	
1.5.8	Components in equipment for IT power systems	Class III equipment.	N/A	
1.5.9	Surge suppressors	No such suppressor provided.	N/A	
1.5.9.1	General	Same as above.	N/A	
1.5.9.2	Protection of VDRs	Same as above.	N/A	
1.5.9.3	Bridging of functional insulation by a VDR	Same as above.	N/A	
1.5.9.4	Bridging of basic insulation by a VDR	Same as above.	N/A	
1.5.9.5	Bridging of supplementary, double or reinforced insulation by a VDR	Same as above.	N/A	

Page 5 of 51



	IEC/EN 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict

1.6	Power interface		Р	
1.6.1	AC power distribution systems	Class III equipment.	N/A	
1.6.2	Input current	Highest load according to 1.2.2.1 for this equipment is operated in link mode. (see appended table 1.6.2)	Р	
1.6.3	Voltage limit of hand-held equipment	This appliance is not a hand-held equipment.	N/A	
1.6.4	Neutral conductor	Class III equipment.	N/A	

1.7	Marking and instructions		Р
1.7.1	Power rating	All information is provided on a label except the electrical rating is allowed to not be provided if the equipment is not directly supplied from mains.	Р
	Rated voltage(s) or voltage range(s) (V):	Not directly supplied from mains.	N/A
	Symbol for nature of supply, for d.c. only:	Not directly supplied from mains.	N/A
	Rated frequency or rated frequency range (Hz):	Supplied by DC voltage only.	N/A
	Rated current (mA or A):	Not directly supplied from mains.	N/A
	Manufacturer's name or trade-mark or identification mark	EVIVOTEK	Р
	Model identification or type reference	IP7361	Р
	Symbol for Class II equipment only	Class III equipment.	N/A
	Other markings and symbols:	Additional symbols or markings do not give rise to misunderstanding.	Р
1.7.2	Safety instructions and marking	See below.	Р
1.7.2.1	General	The user's manual contains information for operation, installation, servicing, transport, storage and technical data.	Р
1.7.2.2	Disconnect devices	This equipment is not permanently connected equipment or pluggable equipment.	N/A

Page 6 of 51



IEC/EN 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
1.7.2.3	Overcurrent protective device	This equipment is not permanently connected equipment or pluggable equipment.	N/A
1.7.2.4	IT power distribution systems	Class III equipment.	N/A
1.7.2.5	Operator access with a tool	Only SELV circuit in this unit.	Р
1.7.2.6	Ozone	No ozone produces within this equipment.	N/A
1.7.3	Short duty cycles	Equipment is designed for continuous operation.	N/A
1.7.4	Supply voltage adjustment	No adjustment of supply voltage necessary.	N/A
	Methods and means of adjustment; reference to installation instructions	Same as above.	N/A
1.7.5	Power outlets on the equipment	No outlet provided.	N/A
1.7.6	Fuse identification (marking, special fusing characteristics, cross-reference)	No such component within the equipment.	N/A
1.7.7	Wiring terminals	No such terminals provided.	N/A
1.7.7.1	Protective earthing and bonding terminals	See below.	N/A
1.7.7.2	Terminals for a.c. mains supply conductors	Class III equipment.	N/A
1.7.7.3	Terminals for d.c. mains supply conductors	Same as above.	N/A
1.7.8	Controls and indicators	No safety relevant controls or indicators.	N/A
1.7.8.1	Identification, location and marking	Same as above.	N/A
1.7.8.2	Colours	Same as above.	N/A
1.7.8.3	Symbols according to IEC 60417	Same as above.	N/A
1.7.8.4	Markings using figures	Same as above.	N/A
1.7.9	Isolation of multiple power sources:	Not supplied by hazardous voltage or energy levels.	N/A
1.7.10	Thermostats and other regulating devices:	No such device provided.	N/A

Page 7 of 51



	IEC/EN 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict	
1.7.11	Durability	The label was subjected to the permanence of marking test. The label was rubbed with cloth soaked with water for 15 s and then again for 15 s with the cloth soaked with petroleum spirit. After this test there was no damage to the label. The marking on the label did not fade. There was neither curling nor lifting of the label edge.	Р	
1.7.12	Removable parts	No removable part provided.	N/A	
1.7.13	Replaceable batteries	No battery provided.	N/A	
	Language(s):		_	
1.7.14	Equipment for restricted access locations	No restricted access location.	N/A	
2	PROTECTION FROM HAZARDS		Р	
2.1	Protection from electric shock and energy hazards The unit is supplied from external adaptor or PoE that provides SELV. No risk of electrical shock or energy hazards.		Р	
2.1.1	Protection in operator access areas	See below.	Р	
2.1.1.1	Access to energized parts	Any hazardous parts accessible are unlikely.	Р	
	Test by inspection	Same as above.	Р	
	Test with test finger (Figure 2A)	Same as above.	Р	
	Test with test pin (Figure 2B)	Same as above.	Р	
	Test with test probe (Figure 2C):	No TNV circuits in this equipment.	N/A	
2.1.1.2	Battery compartments	No battery compartments within this equipment.	N/A	
2.1.1.3	Access to ELV wiring	No ELV wiring in operator accessible area.	N/A	
	Working voltage (Vpeak or Vrms); minimum distance through insulation (mm)		_	
2.1.1.4	Access to hazardous voltage circuit wiring	No hazardous voltage wiring in operator accessible area.	N/A	
2.1.1.5	Energy hazards:	No energy hazard in operator access area.	Р	

Page 8 of 51



	IEC/EN 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
2.1.1.6	Manual controls	No conductive shaft of operating knob and handle.	N/A
2.1.1.7	Discharge of capacitors in equipment	Class III equipment.	N/A
	Measured voltage (V); time-constant (s)		_
2.1.1.8	Energy hazards – d.c. mains supply	Class III equipment.	N/A
	a) Capacitor connected to the d.c. mains supply:		N/A
	b) Internal battery connected to the d.c. mains supply		N/A
2.1.1.9	Audio amplifiers	No audio amplifier provided.	N/A
2.1.2	Protection in service access areas	No maintenance work in operation mode necessary.	N/A
2.1.3	Protection in restricted access locations	The unit is not intended to be used in restricted locations.	N/A
2.2	SELV circuits	,	Р
2.2.1	General requirements	See below.	Р
2.2.2	Voltages under normal conditions (V):	The unit is power supplied by SELV source.	Р
		No hazardous voltages are generated within the unit.	
2.2.3	Voltages under fault conditions (V)	Same as above.	Р
2.2.4	Connection of SELV circuits to other circuits:	No direct connection between SELV and any primary circuits.	N/A
2.3	TNV circuits No TNV circuits within this equipment.		N/A
2.3.1	Limits		N/A
	Type of TNV circuits		_
2.3.2	Separation from other circuits and from accessible parts		N/A
2.3.2.1	General requirements		N/A
2.3.2.2	Protection by basic insulation		N/A
2.3.2.3	Protection by earthing		N/A
2.3.2.4	Protection by other constructions		N/A
2.3.3	Separation from hazardous voltages		N/A
	Insulation employed		_
2.3.4	Connection of TNV circuits to other circuits		N/A

Page 9 of 51



	IEC/EN 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
	Insulation employed:		_
2.3.5	Test for operating voltages generated externally		N/A
2.4	Limited current circuits No such circuit within this equipment.		N/A
2.4.1	General requirements		N/A
2.4.2	Limit values		N/A
	Frequency (Hz):		_
	Measured current (mA):		_
	Measured voltage (V):		_
_	Measured circuit capacitance (nF or μF)		_
2.4.3	Connection of limited current circuits to other circuits		N/A
2.5	Limited power sources The unit is supplied from PoE or external adaptor w the summation of external adaptors and PoE has be with limited power source.		P
	a) Inherently limited output		N/A
	b) Impedance limited output	AC 24V supplied from external adaptor is protected by PTC.	Р
	c) Regulating network limited output under normal operating and single fault condition	The summation of external adaptors and PoE has been evaluated.	Р
	d) Overcurrent protective device limited output		N/A
	Max. output voltage (V), max. output current (A), max. apparent power (VA):	See appended table 2.5.	_
	Current rating of overcurrent protective device (A)		_
2.6	Provisions for earthing and bonding Class III equipment.		N/A
2.6.1	Protective earthing		N/A
2.6.2	Functional earthing		N/A
2.6.3	Protective earthing and protective bonding conductors		N/A
2.6.3.1	General		N/A
2.6.3.2	Size of protective earthing conductors		N/A

Page 10 of 51



	IEC/EN 60950-1				
Clause	Requirement + Test	Result - Remark	Verdict		
	Rated current (A), cross-sectional area (mm²), AWG:		_		
2.6.3.3	Size of protective bonding conductors		N/A		
	Rated current (A), cross-sectional area (mm²), AWG:		_		
	Protective current rating (A), cross-sectional area (mm²), AWG				
2.6.3.4	Resistance of earthing conductors and their terminations; resistance (Ω) , voltage drop (V) , test current (A) , duration (min)		N/A		
2.6.3.5	Colour of insulation		N/A		
2.6.4	Terminals		N/A		
2.6.4.1	General		N/A		
2.6.4.2	Protective earthing and bonding terminals		N/A		
	Rated current (A), type, nominal thread diameter (mm)		_		
2.6.4.3	Separation of the protective earthing conductor from protective bonding conductors		N/A		
2.6.5	Integrity of protective earthing		N/A		
2.6.5.1	Interconnection of equipment		N/A		
2.6.5.2	Components in protective earthing conductors and protective bonding conductors		N/A		
2.6.5.3	Disconnection of protective earth		N/A		
2.6.5.4	Parts that can be removed by an operator		N/A		
2.6.5.5	Parts removed during servicing		N/A		
2.6.5.6	Corrosion resistance		N/A		
2.6.5.7	Screws for protective bonding		N/A		
2.6.5.8	Reliance on telecommunication network or cable distribution system		N/A		
			1		
2.7	Overcurrent and earth fault protection in primary circ Class III equipment.	cuits	N/A		
2.7.1	Basic requirements		N/A		
	Instructions when protection relies on building installation		N/A		
2.7.2	Faults not simulated in 5.3.7		N/A		
2.7.3	Short-circuit backup protection		N/A		

Page 11 of 51



	IEC/EN 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
2.7.4	Number and location of protective devices:		N/A
2.7.5	Protection by several devices		N/A
2.7.6	Warning to service personnel		N/A
2.8	Safety interlocks No such device within this equipment.		N/A
2.8.1	General principles		N/A
2.8.2	Protection requirements		N/A
2.8.3	Inadvertent reactivation		N/A
2.8.4	Fail-safe operation		N/A
2.8.5	Moving parts		N/A
2.8.6	Overriding		N/A
2.8.7	Switches and relays		N/A
2.8.7.1	Contact gaps (mm)		N/A
2.8.7.2	Overload test		N/A
2.8.7.3	Endurance test		N/A
2.8.7.4	Electric strength test		N/A
2.8.8	Mechanical actuators		N/A
2.9	Electrical insulation		Р
2.9.1	Properties of insulating materials	Only SELV inside the unit. No electrical shock hazard.	Р
2.9.2	Humidity conditioning		N/A
	Relative humidity (%), temperature (℃):		_
2.9.3	Grade of insulation	Functional insulation.	Р
2.9.4	Separation from hazardous voltages	Class III equipment, which is separated from hazardous voltage by double/reinforced insulation through the supply source.	N/A
	Method(s) used		_
2.10	Clearances, creepage distances and distances thro	ugh insulation	Р
۷. ۱۷	Only SELV inside the unit. See also 5.3.4.		F
2.10.1	General	Functional insulation only.	Р
2.10.1.1	Frequency:		N/A

Page 12 of 51



IEC/EN 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
2.10.1.2	Pollution degrees:		N/A
2.10.1.3	Reduced values for functional insulation		N/A
2.10.1.4	Intervening unconnected conductive parts		N/A
2.10.1.5	Insulation with varying dimensions		N/A
2.10.1.6	Special separation requirements		N/A
2.10.1.7	Insulation in circuits generating starting pulses		N/A
2.10.2	Determination of working voltage		N/A
2.10.2.1	General		N/A
2.10.2.2	RMS working voltage		N/A
2.10.2.3	Peak working voltage		N/A
2.10.3	Clearances		N/A
2.10.3.1	General		N/A
2.10.3.2	Mains transient voltages		N/A
	a) AC mains supply:		N/A
	b) Earthed d.c. mains supplies:		N/A
	c) Unearthed d.c. mains supplies:		N/A
	d) Battery operation:		N/A
2.10.3.3	Clearances in primary circuits		N/A
2.10.3.4	Clearances in secondary circuits		N/A
2.10.3.5	Clearances in circuits having starting pulses		N/A
2.10.3.6	Transients from a.c. mains supply:		N/A
2.10.3.7	Transients from d.c. mains supply:		N/A
2.10.3.8	Transients from telecommunication networks and cable distribution systems:		N/A
2.10.3.9	Measurement of transient voltage levels		N/A
	a) Transients from a mains supply		N/A
	For an a.c. mains supply		N/A
	For a d.c. mains supply		N/A
	b) Transients from a telecommunication network .:		N/A
2.10.4	Creepage distances		N/A
2.10.4.1	General		N/A
2.10.4.2	Material group and comparative tracking index		N/A
	CTI tests		_
2.10.4.3	Minimum creepage distances		N/A

Page 13 of 51



	IEC/EN 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
2.10.5	Solid insulation		N/A
2.10.5.1	General		N/A
2.10.5.2	Distances through insulation		N/A
2.10.5.3	Insulating compound as solid insulation		N/A
2.10.5.4	Semiconductor devices		N/A
2.10.5.5.	Cemented joints		N/A
2.10.5.6	Thin sheet material – General		N/A
2.10.5.7	Separable thin sheet material		N/A
	Number of layers (pcs):		_
2.10.5.8	Non-separable thin sheet material		N/A
2.10.5.9	Thin sheet material – standard test procedure		N/A
	Electric strength test		_
2.10.5.10	Thin sheet material – alternative test procedure		N/A
	Electric strength test		_
2.10.5.11	Insulation in wound components		N/A
2.10.5.12	Wire in wound components		N/A
	Working voltage:		N/A
	a) Basic insulation not under stress:		N/A
	b) Basic, supplementary, reinforced insulation:		N/A
	c) Compliance with Annex U:		N/A
	Two wires in contact inside wound component; angle between 45° and 90°		N/A
2.10.5.13	Wire with solvent-based enamel in wound components		N/A
	Electric strength test		_
	Routine test		N/A
2.10.5.14	Additional insulation in wound components		N/A
	Working voltage:		N/A
	- Basic insulation not under stress:		N/A
	- Supplementary, reinforced insulation:		N/A
2.10.6	Construction of printed boards		N/A
2.10.6.1	Uncoated printed boards		N/A
2.10.6.2	Coated printed boards		N/A

Page 14 of 51



	IEC/EN 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
2.10.6.3	Insulation between conductors on the same inner surface of a printed board		N/A
2.10.6.4	Insulation between conductors on different layers of a printed board		N/A
	Distance through insulation		N/A
	Number of insulation layers (pcs)		N/A
2.10.7	Component external terminations		N/A
2.10.8	Tests on coated printed boards and coated components		N/A
2.10.8.1	Sample preparation and preliminary inspection		N/A
2.10.8.2	Thermal conditioning		N/A
2.10.8.3	Electric strength test		N/A
2.10.8.4	Abrasion resistance test		N/A
2.10.9	Thermal cycling		N/A
2.10.10	Test for Pollution Degree 1 environment and insulating compound		N/A
2.10.11	Tests for semiconductor devices and cemented joints		N/A
2.10.12	Enclosed and sealed parts		N/A
3	WIRING, CONNECTIONS AND SUPPLY		Р
3 1	General		Р

3	WIRING, CONNECTIONS AND SUPPLY		Р
3.1	General		Р
3.1.1	Current rating and overcurrent protection	Interconnecting cable have suitable and adequate current capability.	Р
3.1.2	Protection against mechanical damage	Wires do not touch sharp edges or heat sinks, which could damage insulation and cause hazard.	Р
3.1.3	Securing of internal wiring	Internal wiring is secured reliable so that loosening of terminal connections is unlikely.	Р
3.1.4	Insulation of conductors	No requirement for insulation.	N/A
3.1.5	Beads and ceramic insulators	Not used.	N/A
3.1.6	Screws for electrical contact pressure	No such screws provided.	N/A
3.1.7	Insulating materials in electrical connections	All connections are metal to metal.	N/A

3.2.9

Supply wiring space

Page 15 of 51



N/A

	IEC/EN 60950-	1	
Clause	Requirement + Test	Result - Remark	Verdict
3.1.8	Self-tapping and spaced thread screws	No self-tapping screws are used.	N/A
3.1.9	Termination of conductors	All conductors are reliable secured.	Р
	10 N pull test	Well secured and keep suitable spacing as the required value.	Р
3.1.10	Sleeving on wiring	No sleeving used as supplementary insulation.	N/A
3.2	Connection to a mains supply Class III equipment. No direct connection to main	ns supply.	N/A
3.2.1	Means of connection		N/A
3.2.1.1	Connection to an a.c. mains supply		N/A
3.2.1.2	Connection to a d.c. mains supply		N/A
3.2.2	Multiple supply connections		N/A
3.2.3	Permanently connected equipment		N/A
	Number of conductors, diameter of cable and conduits (mm)	:	_
3.2.4	Appliance inlets		N/A
3.2.5	Power supply cords		N/A
3.2.5.1	AC power supply cords		N/A
	Туре	:	_
	Rated current (A), cross-sectional area (mm²), AWG	:	_
3.2.5.2	DC power supply cords		N/A
3.2.6	Cord anchorages and strain relief		N/A
	Mass of equipment (kg), pull (N)	:	_
	Longitudinal displacement (mm)	:	_
3.2.7	Protection against mechanical damage		N/A
3.2.8	Cord guards		N/A
	Diameter or minor dimension D (mm); test mass (g)		_
	Radius of curvature of cord (mm)	:	_

Page 16 of 51



	IEC/EN 60950-1		•
Clause	Requirement + Test	Result - Remark	Verdic
3.3	Wiring terminals for connection of external conductor Class III equipment.	prs	N/A
3.3.1	Wiring terminals		N/A
3.3.2	Connection of non-detachable power supply cords		N/A
3.3.3	Screw terminals		N/A
3.3.4	Conductor sizes to be connected		N/A
	Rated current (A), cord/cable type, cross-sectional area (mm²)		_
3.3.5	Wiring terminal sizes		N/A
	Rated current (A), type, nominal thread diameter (mm)		
3.3.6	Wiring terminal design		N/A
3.3.7	Grouping of wiring terminals		N/A
3.3.8	Stranded wire		N/A
3.4	Disconnection from the mains supply Class III equipment. No direct connection to mains s	supply.	N/A
3.4.1	General requirement		N/A
3.4.2	Disconnect devices		N/A
3.4.3	Permanently connected equipment		N/A
3.4.4	Parts which remain energized		N/A
3.4.5	Switches in flexible cords		N/A
3.4.6	Number of poles - single-phase and d.c. equipment		N/A
3.4.7	Number of poles - three-phase equipment		N/A
3.4.8	Switches as disconnect devices		N/A
3.4.9	Plugs as disconnect devices		N/A
3.4.10	Interconnected equipment		N/A
3.4.11	Multiple power sources		N/A
3.5	Interconnection of equipment		Р
3.5.1	General requirements	See below.	Р
3.5.2	Types of interconnection circuits	Interconnection circuits of SELV through sec connector.	Р
3.5.3	ELV circuits as interconnection circuits	No ELV interconnection.	N/A

Page 17 of 51



	IEC/EN 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
3.5.4	Data ports for additional equipment	The unit is supplied from external adaptor or PoE, the summation of external adaptors and PoE has been evaluated to be complied with limited power source.	Р
4	PHYSICAL REQUIREMENTS		Р
4.1	Stability		Р
	Angle of 10°	The weight of equipment does not exceed 7kg.	N/A
	Test force (N)	Equipment is not a floorstanding unit.	N/A
4.2	Mechanical strength		Р
4.2.1	General	The unit is supplied from external adaptor or PoE that provides SELV. Only SELV inside the unit.	N/A
4.2.2	Steady force test, 10 N		N/A
4.2.3	Steady force test, 30 N		N/A
4.2.4	Steady force test, 250 N		N/A
4.2.5	Impact test		N/A
	Fall test		N/A
	Swing test		N/A
4.2.6	Drop test; height (mm)		N/A
4.2.7	Stress relief test		N/A
4.2.8	Cathode ray tubes	No CRT.	N/A
	Picture tube separately certified	Same as above.	N/A
4.2.9	High pressure lamps	No high pressure lamp.	N/A
4.2.10	Wall or ceiling mounted equipment; force (N):	Weight of the equipment: 1.47 Kg Force applied: 5.1kg (50N) The mounting means did withstand the force applied without breaking or damaging the mounting bracket, its securing means, or that portion of the unit to which it was attached.	P

Page 18 of 51



		IEC/EN 60950-1		
Clause	Requirement + Test		Result - Remark	Verdict

4.3	Design and construction		Р
4.3.1	Edges and corners	Edges and corners of the enclosure are rounded.	Р
4.3.2	Handles and manual controls; force (N)	No handles or controls used.	N/A
4.3.3	Adjustable controls	No control device.	N/A
4.3.4	Securing of parts	Mechanical fixings in such a way designed that they will withstand mechanical stress occurring in normal use.	Р
4.3.5	Connection by plugs and sockets	No misconnection of plugs, connections or sockets possible.	Р
4.3.6	Direct plug-in equipment	EUT not of direct plug-in type.	N/A
	Torque		_
	Compliance with the relevant mains plug standard		N/A
4.3.7	Heating elements in earthed equipment	No heating element.	N/A
4.3.8	Batteries	No battery used.	N/A
	- Overcharging of a rechargeable battery		N/A
	- Unintentional charging of a non-rechargeable battery		N/A
	- Reverse charging of a rechargeable battery		N/A
	- Excessive discharging rate for any battery		N/A
4.3.9	Oil and grease	Insulation in intended use not considered to be exposed to oil and grease.	N/A
4.3.10	Dust, powders, liquids and gases	EUT in intended use does not produce dust or use powders, liquids or gases.	N/A
4.3.11	Containers for liquids or gases	No container for liquid or gas.	N/A
4.3.12	Flammable liquids	No flammable liquids used.	N/A
	Quantity of liquid (I)		N/A
	Flash point (°C)		N/A
4.3.13	Radiation	See below.	Р
4.3.13.1	General	No concerned radiation within this equipment.	Р

Page 19 of 51



	IEC/EN 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
4.3.13.2	Ionizing radiation	No ionizing radiation or flammable liquids present.	N/A
	Measured radiation (pA/kg)		_
	Measured high-voltage (kV)		_
	Measured focus voltage (kV)		_
	CRT markings		_
4.3.13.3	Effect of ultraviolet (UV) radiation on materials	No UV radiation.	N/A
	Part, property, retention after test, flammability classification		N/A
4.3.13.4	Human exposure to ultraviolet (UV) radiation:		N/A
4.3.13.5	Laser (including LEDs)	AEL of LED far below the limiting values for LED Class 1.	P
	Laser class	Below Class 1.	_
4.3.13.6	Other types	No such consideration.	N/A
4.4	Protection against hazardous moving parts No hazard moving part within this equipment.		N/A
4.4.1	General		N/A
4.4.2	Protection in operator access areas		N/A
4.4.3	Protection in restricted access locations:		N/A
4.4.4	Protection in service access areas		N/A
	T		T _
4.5	Thermal requirements	<u> </u>	P
4.5.1	General	See below.	P
4.5.2	Temperature tests	See appended table 4.5.	Р
	Normal load condition per Annex L	EUT is operated according to the operating instructions.	_
4.5.3	Temperature limits for materials	See appended table 4.5.	Р
4.5.4	Touch temperature limits	See appended table 4.5.	Р
4.5.5	Resistance to abnormal heat:	No thermoplastic part at hazardous voltage.	N/A
4.6	Openings in analogues		Р
4.6	Openings in enclosures	There is no opening presided	
4.6.1	Top and side openings	There is no opening provided.	Р

4.7.3.1

4.7.3.2

4.7.3.3

General

fire enclosures

Materials for fire enclosures

Materials for components and other parts outside

Page 20 of 51



Dimensions (mm)		IEC/EN 60950-1		
4.6.2 Bottoms of fire enclosures Construction of the bottom, dimensions (mm)	Clause	Requirement + Test	Result - Remark	Verdict
Construction of the bottom, dimensions (mm)		Dimensions (mm):		_
4.6.2 4.6.3 Doors or covers in fire enclosures No such door or cover. N/A 4.6.4 Openings in transportable equipment Not such equipment. N/A 4.6.4.1 Constructional design measures Dimensions (mm)	4.6.2	Bottoms of fire enclosures	There is no opening provided.	Р
4.6.4 Openings in transportable equipment Not such equipment. 4.6.4.1 Constructional design measures Dimensions (mm)		Construction of the bottom, dimensions (mm):		_
A.6.4.1 Constructional design measures Dimensions (mm)	4.6.3	Doors or covers in fire enclosures	No such door or cover.	N/A
Dimensions (mm)	4.6.4	Openings in transportable equipment	Not such equipment.	N/A
4.6.4.2 Evaluation measures for larger openings 4.6.4.3 Use of metallized parts N/A 4.6.5 Adhesives for constructional purposes Conditioning temperature (°C), time (weeks)	4.6.4.1	Constructional design measures		N/A
4.6.4.3 Use of metallized parts 4.6.5 Adhesives for constructional purposes Conditioning temperature (°C), time (weeks)		Dimensions (mm)		_
Adhesives for constructional purposes Conditioning temperature (°C), time (weeks)	4.6.4.2	Evaluation measures for larger openings		N/A
Conditioning temperature (°C), time (weeks)	4.6.4.3	Use of metallized parts		N/A
4.7 Resistance to fire 4.7.1 Reducing the risk of ignition and spread of flame Method 1, selection and application of components wiring and materials Method 2, application of all of simulated fault condition tests 4.7.2 Conditions for a fire enclosure Parts requiring a fire enclosure With having the following parts: - components in secondary (not supplied by LPS) - insulated wiring The fire enclosure is required. 4.7.2.2 Parts not requiring a fire enclosure Refer to sub-clause 4.7.2.1. N/A	4.6.5	Adhesives for constructional purposes	No such consideration.	N/A
4.7.1 Reducing the risk of ignition and spread of flame Method 1, selection and application of components wiring and materials Method 2, application of all of simulated fault condition tests 4.7.2 Conditions for a fire enclosure Parts requiring a fire enclosure With having the following parts: - components in secondary (not supplied by LPS) - insulated wiring The fire enclosure is required. 4.7.2.2 Parts not requiring a fire enclosure Refer to sub-clause 4.7.2.1. N/A		Conditioning temperature (°C), time (weeks):		_
Method 1, selection and application of components wiring and materials Method 2, application of all of simulated fault condition tests 4.7.2 Conditions for a fire enclosure Parts requiring a fire enclosure With having the following parts: - components in secondary (not supplied by LPS) - insulated wiring The fire enclosure is required. Method 1 used. P N/A A.7.2.2 Parts not requiring a fire enclosure Refer to sub-clause 4.7.2.1. N/A	4.7	Resistance to fire		Р
wiring and materials Method 2, application of all of simulated fault condition tests 4.7.2 Conditions for a fire enclosure Parts requiring a fire enclosure With having the following parts: - components in secondary (not supplied by LPS) - insulated wiring The fire enclosure is required. 4.7.2.2 Parts not requiring a fire enclosure Refer to sub-clause 4.7.2.1. N/A	4.7.1	Reducing the risk of ignition and spread of flame		Р
condition tests 4.7.2 Conditions for a fire enclosure See below. Parts requiring a fire enclosure With having the following parts: - components in secondary (not supplied by LPS) - insulated wiring The fire enclosure is required. 4.7.2.2 Parts not requiring a fire enclosure Refer to sub-clause 4.7.2.1. N/A			Method 1 used.	Р
4.7.2.1 Parts requiring a fire enclosure With having the following parts: - components in secondary (not supplied by LPS) - insulated wiring The fire enclosure is required. 4.7.2.2 Parts not requiring a fire enclosure Refer to sub-clause 4.7.2.1. N/A			Same as above.	N/A
parts: - components in secondary (not supplied by LPS) - insulated wiring The fire enclosure is required. 4.7.2.2 Parts not requiring a fire enclosure Refer to sub-clause 4.7.2.1. N/A	4.7.2	Conditions for a fire enclosure	See below.	Р
The fire enclosure is required. 4.7.2.2 Parts not requiring a fire enclosure Refer to sub-clause 4.7.2.1. N/A	4.7.2.1	Parts requiring a fire enclosure	parts: - components in secondary (not supplied by LPS)	Р
4.7.2.2 Parts not requiring a fire enclosure Refer to sub-clause 4.7.2.1. N/A			J	
4.7.3 Materials P	4.7.2.2	Parts not requiring a fire enclosure		N/A
	4.7.3	Materials	1	Р

The PCB has material of flammability class V-1 or

See appended table 1.5.1.

No part outside fire enclosure.

Ρ

N/A

Page 21 of 51



	IEC/EN 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
4.7.3.4	Materials for components and other parts inside fire enclosures	Internal components except small parts are V-2, HF-2 or better.	P
4.7.3.5	Materials for air filter assemblies	No air filter provided.	N/A
4.7.3.6	Materials used in high-voltage components	No high voltage components provided.	N/A

5	ELECTRICAL REQUIREMENTS AND SIMULATED ABNORMAL CONDITIONS	Р
5.1	Touch current and protective conductor current	N/A
5.1.1	General	N/A
5.1.2	Configuration of equipment under test (EUT)	N/A
5.1.2.1	Single connection to an a.c. mains supply	N/A
5.1.2.2	Redundant multiple connections to an a.c. mains supply	N/A
5.1.2.3	Simultaneous multiple connections to an a.c. mains supply	N/A
5.1.3	Test circuit	N/A
5.1.4	Application of measuring instrument	N/A
5.1.5	Test procedure	N/A
5.1.6	Test measurements	N/A
	Supply voltage (V)	_
	Measured touch current (mA)	_
	Max. allowed touch current (mA)	_
	Measured protective conductor current (mA):	_
	Max. allowed protective conductor current (mA):	_
5.1.7	Equipment with touch current exceeding 3,5 mA	N/A
5.1.7.1	General	N/A
5.1.7.2	Simultaneous multiple connections to the supply	N/A
5.1.8	Touch currents to telecommunication networks and cable distribution systems and from telecommunication networks	N/A
5.1.8.1	Limitation of the touch current to a telecommunication network or to a cable distribution system	N/A
	Supply voltage (V)	_
	Measured touch current (mA)	_

Page 22 of 51



	IEC/EN 60950-1		
Clause	Requirement + Test	Result - Remark	Verdic
	Max. allowed touch current (mA)		_
5.1.8.2	Summation of touch currents from telecommunication networks		N/A
	a) EUT with earthed telecommunication ports:		N/A
	b) EUT whose telecommunication ports have no reference to protective earth		N/A
5.2	Electric strength		N/A
5.2.1	General		N/A
5.2.2	Test procedure		N/A
5.3	Abnormal operating and fault conditions		Р
5.3.1	Protection against overload and abnormal operation	See sub-clause 5.3.4.	N/A
5.3.2	Motors	No motor used.	N/A
5.3.3	Transformers	No safety isolation transformer in this equipment.	N/A
5.3.4	Functional insulation	Method c). See appended table 5.3.	Р
5.3.5	Electromechanical components	See appended table 5.3.	Р
5.3.6	Audio amplifiers in ITE	No audio amplifier within this equipment.	N/A
5.3.7	Simulation of faults	See appended table 5.3.	Р
5.3.8	Unattended equipment	None of the listed components provided.	N/A
5.3.9	Compliance criteria for abnormal operating and fault conditions	See below.	Р
5.3.9.1	During the tests	No fire occurs; no emit molten metal, no hazardous.	Р
5.3.9.2	After the tests		N/A
6	CONNECTION TO TELECOMMUNICATION NETW	/ORKS	N/A

6	CONNECTION TO TELECOMMUNICATION NETWORKS	N/A
	Class III equipment without TNV circuit.	
6.1	Protection of telecommunication network service persons, and users of other equipment connected to the network, from hazards in the equipment	N/A
6.1.1	Protection from hazardous voltages	N/A
6.1.2	Separation of the telecommunication network from earth	N/A

Page 23 of 51



	IEC/EN 60950-1		
Clause	Requirement + Test	Result - Remark	Verdic
6.1.2.1	Requirements		N/A
	Supply voltage (V)		_
	Current in the test circuit (mA):		_
6.1.2.2	Exclusions		N/A
0.0	Destruite of the Secretary Control of the Control o		NI/A
6.2	Protection of equipment users from overvoltages on	telecommunication networks	N/A
6.2.1	Separation requirements		N/A
6.2.2	Electric strength test procedure		N/A
6.2.2.1	Impulse test		N/A
6.2.2.2	Steady-state test		N/A
6.2.2.3	Compliance criteria		N/A
6.3	Protection of the telecommunication wiring system for Not such equipment intended to provide power over	_	N/A
	Max. output current (A):		_
	Current limiting method		_
7	CONNECTION TO CABLE DISTRIBUTION SYSTE No cable distribution system within this equipment.	MS	N/A
7.1	General		N/A
7.2	Protection of cable distribution system service persons, and users of other equipment connected to the system, from hazardous voltages in the equipment		N/A
7.3	Protection of equipment users from overvoltages on the cable distribution system		N/A
7.4	Insulation between primary circuits and cable distribution systems		N/A
7.4.1	General		N/A
7.4.2	Voltage surge test		N/A
7.4.3	Impulse test		N/A
<u></u>	ANNEX A, TESTS FOR RESISTANCE TO HEAT A	ND FIRE	N/A
A.1	Flammability test for fire enclosures of movable equipment having a total mass exceeding 18 kg, and of stationary equipment (see 4.7.3.2)		N/A

Page 24 of 51



	IEC/EN 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
A.1.1	Samples:		
7	Wall thickness (mm):		_
A.1.2	Conditioning of samples; temperature (°C):		N/A
A.1.3	Mounting of samples:		N/A
A.1.4	Test flame (see IEC 60695-11-3)		N/A N/A
Λ.1.4	Flame A, B, C or D:		IN/A
A.1.5	Test procedure		N/A
A.1.6	Compliance criteria		N/A
A.1.0	Sample 1 burning time (s):		IN/A
			_
	Sample 2 burning time (s):		_
	Sample 3 burning time (s)		_
A.2	Flammability test for fire enclosures of movable equilexceeding 18 kg, and for material and components (see 4.7.3.2 and 4.7.3.4)		N/A
A.2.1	Samples, material		
	Wall thickness (mm):		_
A.2.2	Conditioning of samples; temperature (℃):		N/A
A.2.3	Mounting of samples:		N/A
A.2.4	Test flame (see IEC 60695-11-4)		N/A
	Flame A, B or C		_
A.2.5	Test procedure		N/A
A.2.6	Compliance criteria		N/A
	Sample 1 burning time (s)		_
	Sample 2 burning time (s):		_
	Sample 3 burning time (s):		_
A.2.7	Alternative test acc. to IEC 60695-11-5, cl. 5 and 9		N/A
	Sample 1 burning time (s):		_
	Sample 2 burning time (s)		_
	Sample 3 burning time (s)		_
A.3	Hot flaming oil test (see 4.6.2)		N/A
A.3.1	Mounting of samples		N/A
A.3.2	Test procedure		N/A
A.3.3	Compliance criterion		N/A



	IEC/EN 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
В	ANNEX B, MOTOR TESTS UNDER ABNORMAL CONDITIONS (see 4.7.2.2 and 5.3.2)		
B.1	General requirements		N/A
	Position:		_
	Manufacturer:		_
	Type:		_
	Rated values		_
B.2	Test conditions		N/A
B.3	Maximum temperatures		N/A
B.4	Running overload test		N/A
B.5	Locked-rotor overload test		N/A
	Test duration (days)		_
	Electric strength test: test voltage (V)		_
B.6	Running overload test for d.c. motors in secondary circuits		N/A
B.6.1	General		N/A
B.6.2	Test procedure		N/A
B.6.3	Alternative test procedure		N/A
B.6.4	Electric strength test; test voltage (V):		N/A
B.7	Locked-rotor overload test for d.c. motors in secondary circuits		N/A
B.7.1	General		N/A
B.7.2	Test procedure		N/A
B.7.3	Alternative test procedure		N/A
B.7.4	Electric strength test; test voltage (V)		N/A
B.8	Test for motors with capacitors		N/A
B.9	Test for three-phase motors		N/A
B.10	Test for series motors		N/A
	Operating voltage (V):		_
С	ANNEX C, TRANSFORMERS (see 1.5.4 and 5.3.3) No safety isolation transformer in this equipment.)	N/A
	Position:		_
	Manufacturer:		_

Page 26 of 51



	IEC/EN 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
	Type:		T _
	Rated values		_
	Method of protection:		_
C.1	Overload test		N/A
C.2	Insulation		N/A
	Protection from displacement of windings:		N/A
			1
D	ANNEX D, MEASURING INSTRUMENTS FOR TO (see 5.1.4)	UCH-CURRENT TESTS	N/A
D.1	Measuring instrument		N/A
D.2	Alternative measuring instrument		N/A
E	ANNEX E, TEMPERATURE RISE OF A WINDING	(see 1.4.13)	N/A
F	ANNEX F, MEASUREMENT OF CLEARANCES AN (see 2.10 and Annex G)	ND CREEPAGE DISTANCES	N/A
G	ANNEX G, ALTERNATIVE METHOD FOR DETERI CLEARANCES	MINING MINIMUM	N/A
G.1	Clearances		N/A
G.1.1	General		N/A
G.1.2	Summary of the procedure for determining minimum clearances		N/A
G.2	Determination of mains transient voltage (V)		N/A
G.2.1	AC mains supply		N/A
G.2.2	Earthed d.c. mains supplies		N/A
G.2.3	Unearthed d.c. mains supplies		N/A
G.2.4	Battery operation		N/A
G.3	Determination of telecommunication network transient voltage (V)		N/A
G.4	Determination of required withstand voltage (V)		N/A
G.4.1	Mains transients and internal repetitive peaks:		N/A
G.4.2	Transients from telecommunication networks:		N/A
G.4.3	Combination of transients		N/A
G.4.4	Transients from cable distribution systems		N/A

Page 27 of 51



	IEC/EN 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
G.5	Measurement of transient voltages (V)		N/A
	a) Transients from a mains supply		N/A
	For an a.c. mains supply		N/A
	For a d.c. mains supply		N/A
	b) Transients from a telecommunication network		N/A
G.6	Determination of minimum clearances		N/A
Н	ANNEX H, IONIZING RADIATION (see 4.3.13)		N/A
J	ANNEX J, TABLE OF ELECTROCHEMICAL POTE	NTIALS (see 2.6.5.6)	N/A
	Metal(s) used		_
K	ANNEX K, THERMAL CONTROLS (see 1.5.3 and	5.3.8)	N/A
K.1	Making and breaking capacity		N/A
K.2	Thermostat reliability; operating voltage (V):		N/A
K.3	Thermostat endurance test; operating voltage (V):		N/A
K.4	Temperature limiter endurance; operating voltage (V)		N/A
K.5	Thermal cut-out reliability		N/A
K.6	Stability of operation		N/A
L	ANNEX L, NORMAL LOAD CONDITIONS FOR SC BUSINESS EQUIPMENT (see 1.2.2.1 and 4.5.2)	ME TYPES OF ELECTRICAL	Р
L.1	Typewriters		N/A
L.2	Adding machines and cash registers		N/A
L.3	Erasers		N/A
L.4	Pencil sharpeners		N/A
L.5	Duplicators and copy machines		N/A
L.6	Motor-operated files		N/A
L.7	Other business equipment	EUT is operated according to the operating instructions.	Р
М	ANNEX M, CRITERIA FOR TELEPHONE RINGING	G SIGNALS (see 2.3.1)	N/A
M.1	Introduction		N/A
M.2	Method A		N/A

Page 28 of 51



	IEC/EN 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
M.3	Method B		N/A
M.3.1	Ringing signal		N/A
M.3.1.1	Frequency (Hz)		_
M.3.1.2	Voltage (V):		_
M.3.1.3	Cadence; time (s), voltage (V):		_
M.3.1.4	Single fault current (mA):		_
M.3.2	Tripping device and monitoring voltage:		N/A
M.3.2.1	Conditions for use of a tripping device or a monitoring voltage		N/A
M.3.2.2	Tripping device		N/A
M.3.2.3	Monitoring voltage (V)		N/A
N	ANNEX N, IMPULSE TEST GENERATORS (see 1, 7.3.2, 7.4.3 and Clause G.5)	.5.7.2, 1.5.7.3, 2.10.3.9, 6.2.2.1,	N/A
N.1	ITU-T impulse test generators		N/A
N.2	IEC 60065 impulse test generator		N/A
			_
Р	ANNEX P, NORMATIVE REFERENCES		_
Q	ANNEX Q, Voltage dependent resistors (VDRs) (se	ee 1.5.9.1)	N/A
	a) Preferred climatic categories		N/A
	b) Maximum continuous voltage		N/A
	c) Pulse current		N/A
R	Annex R, EXAMPLES OF REQUIREMENTS FOR O	QUALITY CONTROL	N/A
R.1	Minimum separation distances for unpopulated coated printed boards (see 2.10.6.2)		N/A
R.2	Reduced clearances (see 2.10.3)		N/A
S	ANNEX S, PROCEDURE FOR IMPULSE TESTING	G (see 6.2.2.3)	N/A
S.1	Test equipment		N/A
S.2	Test procedure		N/A
S.3	Examples of waveforms during impulse testing		N/A

Page 29 of 51



	IEC/EN 60950-1		
Clause	Requirement + Test Res	sult - Remark	Verdict
Т	ANNEX T, GUIDANCE ON PROTECTION AGAINST IN(see 1.1.2)	GRESS OF WATER	N/A
			_
U	ANNEX U, INSULATED WINDING WIRES FOR USE W INSULATION (see 2.10.5.4)	ITHOUT INTERLEAVED	N/A
			_
V	ANNEX V, AC POWER DISTRIBUTION SYSTEMS (see	e 1.6.1)	N/A
V.1	Introduction		N/A
V.2	TN power distribution systems		N/A
W	ANNEX W, SUMMATION OF TOUCH CURRENTS		N/A
W.1	Touch current from electronic circuits		N/A
W.1.1	Floating circuits		N/A
W.1.2	Earthed circuits		N/A
W.2	Interconnection of several equipments		N/A
W.2.1	Isolation		N/A
W.2.2	Common return, isolated from earth		N/A
W.2.3	Common return, connected to protective earth		N/A
X	ANNEX X, MAXIMUM HEATING EFFECT IN TRANSFO (C.1)	RMER TESTS (see clause	N/A
X.1	Determination of maximum input current		N/A
X.2	Overload test procedure		N/A
Υ	ANNEX Y, ULTRAVIOLET LIGHT CONDITIONING TES	T (see 4.3.13.3)	N/A
Y.1	Test apparatus	1 (300 4.0.10.0)	N/A
Y.2	Mounting of test samples		N/A
Y.3	Carbon-arc light-exposure apparatus:		N/A
Y.4	Xenon-arc light exposure apparatus		N/A
	-		
Z	ANNEX Z, OVERVOLTAGE CATEGORIES (see 2.10.3.	2 and Clause G.2)	N/A
AA	ANNEX AA. MANDREL TEST (see 2.10.5.8)		N/A
AA	ANNEX AA, MANDREL TEST (see 2.10.5.8)		N/

Page 30 of 51



	IEC/	'EN 60950-1	
Clause	Requirement + Test	Result - Remark	Verdict
ВВ	ANNEX BB, CHANGES IN THE SEC	OND EDITION	_

Page 31 of 51



		IEC/EN 60950-1		
Clause	Requirement + Test		Result - Remark	Verdict

	EN 60950-1:20	006 – CENEL	EC COMMON	MODIFICATION	ONS	
Contents	Add the following annexe Annex ZA (normative) Annex ZB (normative) Annex ZC (informative)	Normative r	eferences to int conding Europe onal conditions	an publication		P
General	Delete all the "country" no list:			ent according	to the following	Р
	1.4.8 Note 2 1.5.8 Note 2 2.2.3 Note 2.3.2.1 Note 2 2.7.1 Note 3.2.1.1 Note 4.3.6 Note 1 & 2 4.7.3.1 Note 2 6 Note 2 & 5 6.2.2 Note 6. 7.1 Note 3 G.2.1 Note 2	1.5.1 1.5.9.4 2.2.4 2.3.4 2.10.3.2 3.2.4 4.7 5.1.7.1 6.1.2.1 2.2.1 7.2 Annex H	Note 2 & 3 Note Note Note 2 Note 2 Note 3. Note 4 Note 3 & 4 Note 2 Note 2 Note 2 Note 2	1.5.7.1 1.7.2.1 2.3.2 2.6.3.3 2.10.5.13 2.5.1 4.7.2.2 5.3.7 6.1.2.2 6.2.2.2 7.3	Note Note 4, 5 & 6 Note Note 2 & 3 Note 3 Note 2 Note Note 1 Note Note Note Note Note Note Note	
1.3.Z1	Add the following subclause: 1.3.Z1 Exposure to excessive sound pressure The apparatus shall be so designed and constructed as to present no danger when used for its intended purpose, either in normal operating conditions or under fault conditions, particularly providing protection against exposure to excessive sound pressures from headphones or earphones. NOTE Z1 A new method of measurement is described in EN 50332-1, Sound system equipment: Headphones and earphones associated with portable audio equipment - Maximum sound pressure level measurement methodology and limit considerations - Part 1: General method for "one package equipment", and in EN 50332-2, Sound system equipment: Headphones and earphones associated with portable audio equipment - Maximum sound pressure level measurement methodology and limit considerations - Part 2: Guidelines to associate sets			N/A		
1.5.1	with headphones coming from Add the following NOTE: NOTE Z1 The use of certain within the EU: see Directive	n substances ir		ectronic equipn	nent is restricted	P
1.7.2.1	Add the following NOTE: NOTE Z1 In addition, the insexcessive sound pressure for					N/A

Page 32 of 51



IEC/EN 60950-1				
Clause	Requirement + Test	Result - Remark	Verdict	
2.7.1	Replace the subclause as follows: Basic requirements		N/A	
	To protect against excessive current, short-circuits and earth faults in PRIMARY CIRCUITS, protective devices shall be included either as integral parts of the equipment or as parts of the building installation, subject to the following, a), b) and c):			
	a) except as detailed in b) and c), protective devices necessary to comply with the requirements of 5.3 shall be included as parts of the equipment;			
	b) for components in series with the mains input to the equipment such as the supply cord, appliance coupler, r.f.i. filter and switch, short-circuit and earth fault protection may be provided by protective devices in the building installation;			
	c) it is permitted for PLUGGABLE EQUIPMENT TYPE B or PERMANENTLY CONNECTED EQUIPMENT, to rely on dedicated overcurrent and short-circuit protection in the building installation, provided that the means of protection, e.g. fuses or circuit breakers, is fully specified in the installation instructions.			
	If reliance is placed on protection in the building installation, the installation instructions shall so state, except that for PLUGGABLE EQUIPMENT TYPE A the building installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet.			
2.7.2	This subclause has been declared 'void'.		N/A	
3.2.3	Delete the NOTE in Table 3A, and delete also in this table the conduit sizes in parentheses.		N/A	
3.2.5.1	Replace "60245 IEC 53" by "H05 RR- "60227 IEC 52" by "H03 VV- "60227 IEC 53" by "H05 VV-	F or H03 VVH2-F";	N/A	
	In Table 3B, replace the first four lines by the			
	Up to and including 6 Over 6 up to and including 10 Over 10 up to and including 16	$(0,75)^{(b)} $ $(1,0)^{(c)} $ $(1,0)^{(c)} $ $(1,5)^{(c)} $		
	In the conditions applicable to Table 3B delet condition ^{a)} .			
	In NOTE 1, applicable to Table 3B, delete the second sentence.			
3.3.4	In Table 3D, delete the fourth line: conductor the following:	sizes for 10 to 13 A, and replace with	N/A	
	1.	to 2,5 1,5 to 4		
	Delete the fifth line: conductor sizes for 13 to	16 A.		
4.3.13.6	Add the following NOTE: NOTE Z1 Attention is drawn to 1999/519/EC: Council Recommendation on the limitation of exposure of the general public to electromagnetic fields 0 Hz to 300 GHz. Standards taking into account this Recommendation which demonstrate compliance with the applicable EU Directive are indicated in the OJEC.		N/A	

2.3.2

2.3.4

Page 33 of 51



N/A

N/A

	IEC/EN 6	0950-1	
Clause	Requirement + Test	Result - Remark	Verdict
Annex H	Replace the last paragraph of this annex by: At any point 10 cm from the surface of the OPERATOR ACCESS AREA, the dose rate shall not exceed 1 µSv/h (0,1 mR/h) (see NOTE). Account is taken of the background level. Replace the notes as follows: NOTE These values appear in Directive 96/29/Euratom. Delete NOTE 2.		N/A
Biblio- graphy	Additional EN standards.		_
ZA	NORMATIVE REFERENCES TO INTERNATIONAL PUBLICATIONS WITH THEIR CORRESPONDING EUROPEAN PUBLICATIONS		_
ZB	SPECIAL NATIONAL CONDITIONS		Р
1.2.4.1	In Denmark , certain types of Class I appliances (see 3.2.1.1) may be provided with a plug not establishing earthing conditions when inserted into Danish socket-outlets.		N/A
1.5.7.1	In Finland , Norway and Sweden , resistors bridging BASIC INSULATION in CLASS I PLUGGABLE EQUIPMENT TYPE A must comply with the requirements in 1.5.7.2.		N/A
1.5.8	In Norway , due to the IT power system used (see annex V, Figure V.7), capacitors are required to be rated for the applicable line-to-line voltage (230 V).		N/A
1.5.9.4	In Finland , Norway and Sweden , the third dashed sentence is applicable only to equipment as defined in 6.1.2.2 of this annex.		N/A
1.7.2.1	In Finland, Norway and Sweden, CLASS intended for connection to other equipment connection to protective earth or if surges network terminals and accessible parts, had must be connected to an earthed mains so The marking text in the applicable countries. In Finland: "Laite on liitettävä suojamaado pistorasiaan" In Norway: "Apparatet må tilkoples jordet so In Sweden: "Apparaten skall anslutas till jorden."	t or a network shall, if safety relies on uppressors are connected between the ave a marking stating that the equipment ocket-outlet. es shall be as follows: ituskoskettimilla varustettuun	N/A
1.7.5	In Sweden: "Apparaten skall anslutas till jo In Denmark , socket-outlets for providing paccordance with the Heavy Current Regul DK 1-3a, DK 1-5a or DK 1-7a, when used EQUIPMENT the socket-outlet shall be in or DK 1-5a.	ower to other equipment shall be in ations, Section 107-2-D1, Standard Sheet on Class I equipment. For STATIONARY	N/A
2.2.4	In Norway , for requirements see 1.7.2.1, 6	5.1.2.1 and 6.1.2.2 of this annex.	N/A
	· · · · · · · · · · · · · · · · · · ·		l

In $\textbf{Finland},\,\textbf{Norway}$ and Sweden there are additional requirements for the

In **Norway**, for requirements see 1.7.2.1, 6.1.2.1 and 6.1.2.2 of this annex.

insulation. See 6.1.2.1 and 6.1.2.2 of this annex.

Page 34 of 51



	IEC/EN 6	0950-1	
Clause	Requirement + Test	Result - Remark	Verdict
2.6.3.3	In the United Kingdom , the current rating of the circuit shall be taken as 13 A, not 16 A.		N/A
2.7.1	In the United Kingdom , to protect against excessive currents and short-circuits in the PRIMARY CIRCUIT of DIRECT PLUG-IN EQUIPMENT, tests according to 5.3 shall be conducted, using an external protective device rated 30 A or 32 A. If these tests fail, suitable protective devices shall be included as integral parts of the DIRECT PLUG-IN EQUIPMENT, so that the requirements of 5.3 are met.		
2.10.5.13	In Finland , Norway and Sweden , there are additional requirements for the insulation, see 6.1.2.1 and 6.1.2.2 of this annex.		N/A
3.2.1.1	In general, EN 60309 applies for plugs for A plug and socket-outlet system is being in which are according to the following dimer SEV 5932-2.1998 Plug Type 25 3 SEV 5933-2.1998 Plug Type 21 L SEV 5934-2.1998 Plug Type 23 L In Denmark , supply cords of single-phase exceeding 13 A shall be provided with a plu Regulations, Section 107-2-D1. CLASS I EQUIPMENT provided with sock intended to be used in locations where pro-	ug complying with SEV 1011 or IEC on sheets: P+N+PE	N/A
	required according to the wiring rules shal with standard sheet DK 2-1a or DK 2-5a. If poly-phase equipment and single-phase exceeding 13 A is provided with a supply accordance with the Heavy Current Regul	l be provided with a plug in accordance equipment having a RATED CURRENT cord with a plug, this plug shall be in	
3.2.1.1	In Spain , supply cords of single-phase equipment having a rated current not exceeding 10 A shall be provided with a plug according to UNE 20315:1994. Supply cords of single-phase equipment having a rated current not exceeding 2,5 A shall be provided with a plug according to UNE-EN 50075:1993. CLASS I EQUIPMENT provided with socket-outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules, shall be provided with a plug in accordance with standard UNE 20315:1994. If poly-phase equipment is provided with a supply cord with a plug, this plug shall be in accordance with UNE-EN 60309-2.		N/A



IEC/EN 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
3.2.1.1	In the United Kingdom , apparatus which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to BS 1363 by means of that flexible cable or cord and plug, shall be fitted with a 'standard plug' in accordance with Statutory Instrument 1768:1994 - The Plugs and Sockets etc. (Safety) Regulations 1994, unless exempted by those regulations. NOTE 'Standard plug' is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.		N/A
3.2.1.1	In Ireland , apparatus which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to I.S. 411 by means of that flexible cable or cord and plug, shall be fitted with a 13 A plug in accordance with Statutory Instrument 525:1997 - National Standards Authority of Ireland (section 28) (13 A Plugs and Conversion Adaptors for Domestic Use) Regulations 1997.		N/A
3.2.4	In Switzerland , for requirements see 3.2	2.1.1 of this annex.	N/A
3.2.5.1	In the United Kingdom , a power supply cord with conductor of 1,25 mm2 is allowed for equipment with a rated current over 10 A and up to and including 13 A.		N/A
3.3.4	In the United Kingdom , the range of conductor sizes of flexible cords to be accepted by terminals for equipment with a RATED CURRENT of over 10 A up to and including 13 A is: • 1,25 mm² to 1,5 mm² nominal cross-sectional area.		N/A
4.3.6	In the United Kingdom , the torque test is performed using a socket outlet complying with BS 1363 part 1:1995, including Amendment 1:1997 and Amendment 2:2003 and the plug part of DIRECT PLUG-IN EQUIPMENT shall be assessed to BS 1363: Part 1, 12.1, 12.2, 12.3, 12.9, 12.11, 12.12, 12.13, 12.16 and 12.17, except that the test of 12.17 is performed at not less than 125 °C. Where the metal earth pin is replaced by an Insulated Shutter Opening Device (ISOD), the requirements of clauses 22.2 and 23 also apply.		N/A
4.3.6	devices shall comply with Statutory Instru	NT is known as plug similar devices. Such ument 526:1997 - National Standards al plugs, plug similar devices and sockets	N/A
5.1.7.1	equipotential bonding has been telecommunication centre; and has provision for a permanently CONDUCTOR; and	nly for the following equipment: ENT TYPE A that FRICTED ACCESS LOCATION where applied, for example, in a connected PROTECTIVE EARTHING the installation of that conductor by a ENT TYPE B;	N/A



	IEC/EN 60						
Clause	Requirement + Test	Result - Remark	Verdict				
6.1.2.1	In Finland , Norway and Sweden , add the following text between the first and second paragraph of the compliance clause:						
	If this insulation is solid, including insulation least consist of either	n forming part of a component, it shall a	ıt				
	 two layers of thin sheet material, eastrength test below, or 	ach of which shall pass the electric					
	 one layer having a distance through shall pass the electric strength test 	h insulation of at least 0,4 mm, which below.					
	If this insulation forms part of a semiconduction there is no distance through insulation requan insulating compound completely filling the CREEPAGE DISTANCES do not exist, if the strength test in accordance with the compliance.	irement for the insulation consisting of ne casing, so that CLEARANCES and re component passes the electric ance clause below and in addition					
	- passes the tests and inspection criteria of 2.10.11 with an electric strength test of 1,5 kV multiplied by 1,6 (the electric strength test of 2.10.10 shall be performed using 1,5 kV), and						
	- is subject to ROUTINE TESTING for electric strength during manufacturing, using a test voltage of 1,5 kV.						
	It is permitted to bridge this insulation with a capacitor complying with EN 132400:1994, subclass Y2.						
	A capacitor classified Y3 according to EN 1 under the following conditions:	32400:1994, may bridge this insulation	ı				
		isfied by having a capacitor classified \addition to the Y3 testing, is tested wit EN 60950-1:2006, 6.2.2.1;					
	 the additional testing shall be perfo described in EN 132400; 	rmed on all the test specimens as					
	- the impulse test of 2,5 kV is to be p EN 132400, in the sequence of test	performed before the endurance test in ts as described in EN 132400.					
6.1.2.2	In Finland , Norway and Sweden , the exclusive PERMANENTLY CONNECTED EQUIPME and equipment intended to be used in a RE equipotential bonding has been applied, e.g. which has provision for a permanently connection CONDUCTOR and is provided with instruct by a SERVICE PERSON.	NT, PLUGGABLE EQUIPMENT TYPE STRICTED ACCESS LOCATION whe g. in a telecommunication centre, and nected PROTECTIVE EARTHING	re				
7.2	In Finland , Norway and Sweden , for requiannex. The term TELECOMMUNICATION NETWO						
7.3	CABLE DISTRIBUTION SYSTEM. In Norway and Sweden, there are many by cable is normally not connected to the earth		I N /A				
7.3	In Norway, for installation conditions see E		N/A				

ZC A-DEVIATIONS (informative)	
-------------------------------	--

Page 37 of 51



	IEC/EN 609	950-1	
Clause	Requirement + Test	Result - Remark	Verdict
1.5.1	Sweden (Ordinance 1990:944) Add the following: NOTE In Sweden, switches containing mercury a	ure not permitted.	N/A
1.5.1	Switzerland (Ordinance on environmentally hazardous substances SR 814.081, Annex 1.7, Mercury - Annex 1.7 of SR 814.81 applies for mercury.) Add the following: NOTE In Switzerland, switches containing mercury such as thermostats, relays and level controllers are not allowed.		N/A
1.7.2.1	Denmark (Heavy Current Regulations) Supply cords of CLASS I EQUIPMENT, which provided with a visible tag with the following Vigtig Lederen med grø må kun tilsluttes en elle If essential for the safety of the equipment, the a diagram, which shows the connection of the following text: "For tilslutning af de øvrige ledere, se medføred in the safety of the safety of the equipment, the following text:	text: t! n/gul isolation klemme mærket r = he tag must in addition be provided with ne other conductors, or be provided with	N/A
1.7.2.1	"For tilslutning af de øvrige ledere, se medfølgende installationsvejledning." Germany (Gesetz über technische Arbeitsmittel und Verbraucherprodukte (Geräte- und Produktsicherheitsgesetz – GPSG) [Law on technical labour equipment and consumer products], of 6th January 2004, Section 2, Article 4, Clause (4), Item 2). If for the assurance of safety and health certain rules during use, amending or maintenance of a technical labour equipment or readymade consumer product are to be followed, a manual in German language has to be delivered when placing the product on the market. Of this requirement, rules for use even only by SERVICE PERSONS are not exempted.		N/A
1.7.5	Denmark (Heavy Current Regulations) With the exception of CLASS II EQUIPMEN accordance with the Heavy Current Regulation DK 1-4a, CLASS II EQUIPMENT shall not be power to other equipment.	ions, Section 107-2-D1, Standard Sheet	N/A
1.7.13	Switzerland (Ordinance on chemical hazard 2.15 Batteries) Annex 2.15 of SR 814.81 applies for batteries		N/A
5.1.7.1	Denmark (Heavy Current Regulations, Chap TOUCH CURRENT measurement results ex only for PERMANENTLY CONNECTED EQ EQUIPMENT TYPE B.	ceeding 3,5 mA r.m.s. are permitted	N/A

Page 38 of 51



1.5.1	.1 TABLE: List of critical components						Р
Object/part no.		Manufacturer/ trademark	Type/model	Technical data	Standard Mark(s) conformi		
External Pow Adaptor (optional)	er ·			O/P: 12Vdc, 0.6A min., LPS, Class II	IEC 60950-1, EN 60950-1	CB, TI FI, N,	JV, VDE, D or S
External Power Adaptor (optional)				O/P: 24Vac, 0.55A min., Class II	IEC 60950-1, EN 60950-1	CB, TUV, VDE FI, N, D or S	
Enclosure				Metal			
Lens Cover				Glass			
PCB				V-1 or better, min. 105°C.	UL 796 UL		
PoE Choke (T1)	Speed	AFD1545	Min. 120°C			
PTC (F2)		Bourns	MF- MSMF250/16	16Vdc, 2.5A, 1.2W	EN 60730-1	TUV	
Diaphragm Controller		Tamron	DF010N0000	Max. 6Vdc			

1.6.2	TABLE: Electrical data (in normal conditions)						Р
U (V)	I (A)	Irated (A)	P (W)	Fuse #	Ifuse (A)	Condition/status	
DC 12	0.58	0.6	6.96			EUT was supplied by Ex power adaptor / Maximul load.	
AC 24	0.32	0.55	5.0			EUT was supplied by External power adaptor / Maximum norma load.	
DC 48	0.15	0.15	7.2			EUT was supplied by Po over Ethernet) interface Maximum normal load.	
Note:	•	•					

2.5	TABLE: limited power	TABLE: limited power source measurement					
		Limits Measured		Verdict			
Evaluated th	ne summation of exter	nal adapters(AC and DC) and	PoE, After TPS23753 (+12Vdc)				
According to	Table 2B - Normal co	ondition, Uoc = 12.0Vdc					
current (in A)		8	2.6	Р			
apparent po	apparent power (in VA) 100 27.38						
Evaluated the summation of external adapters(AC and DC) and PoE, After TPS23753 (+3.3Vdc)							

Page 39 of 51



According to Table 2B - Normal condition, Uoc = 3.3Vdc							
current (in A) 8 7.7							
apparent power (in VA)	100	14.35	Р				
Note(s):							

2.10.3 and 2.10.4	TABLE: Clearance and creepage distance measurements							
Clearance (cl) and creepage distance (cr) at/of/between:		U peak (V)	U r.m.s. (V)	Required cl (mm)	cl (mm)	Required cr (mm)	cr (mm)	
Note:	Note:							

2.10.5	TABLE: Distance through insulation measurements						
Distance through insulation (DTI) at/of:		U peak (V)	U r.m.s. (V)	Test voltage (V)	Required DTI (mm)	DTI (mm)	
Note:							

4.3.8	TABLE: I	TABLE: Batteries							N/A
The tests of 4.3.8 are applicable only when appropriate battery data is not available									
Is it possible to install the battery in a reverse polarity position?									
	Non-re	echargeable	e batteries			Rechargea	ble batteri	es	
	Disch	arging	Un-	Cha	rging	Disch	arging	Reversed	d charging
	Meas. current	Manuf. Specs.	intentional charging	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.
Max. current during normal condition									
Max. current during fault condition									
			•			•			
Test results:								Verdict	
- Chemical	leaks								
- Explosion	of the batt	ery							

Page 40 of 51



- Emission of flame or expulsion of molten metal	
- Electric strength tests of equipment after completion of tests	
Note:	

4.5	TABLE: Thermal requirements			Р
	Supply voltage (V)	See be	elow.	_
	Ambient T _{min} (°C)			_
	Ambient T _{max} (°C)			_
Maximum n	neasured temperature T of part/at::	T (°0	G)	Allowed
		Measured	Shifted	T _{max} (°C)
EUT was su	upplied by External DC power adaptor (12Vdc)			
1. U8 body		43.9	70.0	105
2. U3 body		42.6	68.7	105
3. L10 body	,	41.4	67.5	105
4. D15 body	/	42.0	68.1	105
5. D1 body		42.0	68.1	105
6. L9 coil		43.7	69.8	105
7. C1 body		44.2	70.3	105
8. C2 body		45.2	71.3	105
9. T1 coil		55.5	81.6	120
10. U2 body	/	50.3	76.4	105
11. U4 body	/	50.9	77.0	105
12. Enclosu	re outside	31.7	57.8	70
13. Ambien	t	23.9	50.0	
EUT was su	upplied by External AC power adaptor (24Vac)			
1. U8 body		47.0	72.7	105
2. U3 body		46.1	71.8	105
3. L10 body	,	46.9	72.6	105
4. D15 body	/	49.5	75.2	105
5. D1 body		61.4	87.1	105
6. L9 coil		52.4	78.1	105
7. C1 body		51.2	76.9	105
8. C2 body		56.4	82.1	105
9. T1 coil		65.8	91.5	120
10. U2 body	· · · · · · · · · · · · · · · · · · ·	58.4	84.1	105

Page 41 of 51



11. U4 body					56.9			82.6	105
12. Enclosure outside					33.3			59.0	70
13. Ambient					24.3			50.0	
EUT was supplied by PoE (Powe	r over Ethern	et)							
1. U8 body					54.7			80.6	105
2. U3 body					54.1			80.0	105
3. L10 body					57.3			83.2	105
4. D15 body					61.0			86.9	105
5. D1 body					57.2			83.1	105
6. L9 coil					60.6		86.5	105	
7. C1 body					58.8			84.7	105
8. C2 body					69.2			95.1	105
9. T1 coil					84.5			110.4	120
10. U2 body				71.9		97.8		105	
11. U4 body	11. U4 body					66.8		92.7	105
12. Enclosure outside					39.4			65.3	70
13. Ambient				24.1			50.0		
Temperature T of winding:	t₁ (°C)	R ₁ (Ω)	t ₂	(℃)	$R_2(\Omega)$	Т	(°C)	Allowed T _{max} (°C)	Insulation class
A.L.									

Note:

- 1. The temperatures were measured under worst normal mode defined in 1.2.2.1 and as described in subclause 1.6.2 and at voltages as described above.
- 2. The user's manual defines the Tma at 50 ℃. Therefore the maximum permitted temperature are recalculated for the worst Tamb at 50 ℃.

4.5.5	TABLE: Ball pressure test of thermoplastic parts				
	Allowed impression diameter (mm):	≤ 2 mm		_	
Part		Test temperature (°C)	Impression (mr		
Note:					

4.6.1, 4.6.2	Table: enclosure openings					
Location		Size (mm)	Comments			
Тор			No openings.			
Side			No openings.			

Page 42 of 51



Bottom	 No openings.
Note(s):	

4.7	Table: Resistance to fire					
Part		Manufacturer of material	Type of material	Thickness (mm)	Flammability class	Evidence
PCB				Min. 1.0	Min. V-1	See appended table 1.5.1
Enclosure					Metal	
Note:				•		•

5.2	TABLE: Electric strength tests, impulse tests and voltage surge tests					
Test voltage	e applied between:	Voltage shape (AC, DC, impulse, surge)	Test voltage (V)		reakdown Yes / No	
Note:						

5.3	TABLE: Fault condition tests						Р
	Ambient temperature (°C): 25						
	Power source for output rating						_
Componen No.	Fault	Supply voltage (V)	Test time	Fuse #	Fuse current (A)	Observation	
R10 (on TPS23753)	Short	AC 24V	1 s			Unit shut down immedia Protected by F2, no haz	
R10 (on TPS23753)	Short	PoE	10 min			Unit shut down immedia No hazards.	ately.
Diaphragm Controller	Continuous operation	DC 6V	1.5 hr			Unit normal operation. hazards. Maximum ten of controller = 49.7 ℃	
Note:	•	1					

C.2	Safety isolation transformer	N/A		
	Construction details:			
Transformer part name:				

Page 43 of 51



Туре:	
Recurring peak voltage	
Required clearance for reinforced insulation (from table 2H and 2J)	
Effective voltage rms	
Required creepage distance for reinforced insulation (from table 2L)	
Measured min. creepage distance	
Location	Measured (mm)
Measured min. clearances	
Location	Measured (mm)
Construction:	
Pin numbers	
Bobbin	
Material	
Thickness	
Electric strength test	
With V a.c. after humidity treatment	
Result	















































