

IEC 61010-1 / EN 61010-1
Safety requirements for electrical equipment for measurement,
control, and laboratory use
Part 1: General requirements

Report Reference No......: RL/2014/10003

Tested by: Koen Ke
Test Engineer

Approved by: Porson Fu
Assistant Manager

Date of issue.....: July 01th, 2014

Total number of pages: 136

Koen Ke



Testing Laboratory.....: SGS Taiwan Ltd., Safety Laboratory

Address: 134, Wu Kung Road, New Taipei Industrial Park, Wu Ku District, New Taipei City, Taiwan

Applicant's name: Sturdy Industrial Co., Ltd.

Address: 168, Sec. 1 , Zhongxing Road, Wugu District, New Taipei City 24872 , Taiwan, R.O.C

Test specification:

Standard: IEC 61010-1:2010 (Third Edition); EN 61010-1:2010 (Third Edition)

Test procedure: V.o.C Scheme

Non-standard test method: None

Test Report Form No......: SGS_IEC61010_1H

Test Report Form Originator: VDE Testing and Certification Institute

Master TRF: Dated 2011-11

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Test item description: Autoclaves

Trade Mark: Sturdy

Manufacturer: Sturdy Industrial Co., Ltd.

Model/Type reference: SAT-X1HPX2-X3-X4X5

Ratings: 230V-440V 3~, 50/60Hz, 38kW max.

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List of Attachments:		
Document No.	Documents included / attached to this report (description)	Page Numbers
1	- Photo Documentation (14 pages)	101 -114
2	- Technical Documentation (7 pages)	115-121
Tests performed (name of test and test clause):		Testing location:
All applicable tests as described throughout this test report and in the Measurement Section were performed.		All tests as described within this test report and as described in the Measurement Section were performed at the laboratory described on cover page.
<ul style="list-style-type: none">• All tests were performed under the worst case and the maximum normal load conditions. Refer to input test (Form A.2) for details.• One built-in open frame power (type: MPD-65B) is in compliance with the requirements of IEC/EN 60601-1:2010. Refer to table 14.• Pressure vessel complied with requirement of pressure equipment, refer to certificate No. 4028-2013-CE-RGC-ACCREDIA.• Temperature protective controller as an over-temperature protective device complied with the relevant component reliability test and refer to reliability test for over-temperature protection device (Form A.38) for details. Refer to the photo for the location of component and table 14 in details.• All tests were conducted on Model SAT-900HP-L-A000 as representative.• All models combination and similarity refer to technical documentation for details.• EMC performance is in compliance with the requirements of IEC 61326-1:2006.• The maximum specified operational ambient temperature is 40°C		
Details and test results are given in subsequent pages of this report. This report refers only to the unit(s) submitted for test. "(see Enclosure #)" refers to additional information appended to the report. "(see appended table)" refers to a table appended to the report.		
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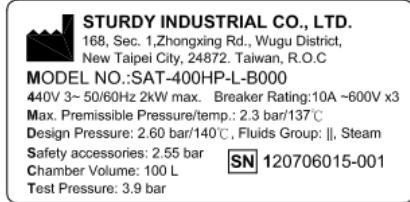
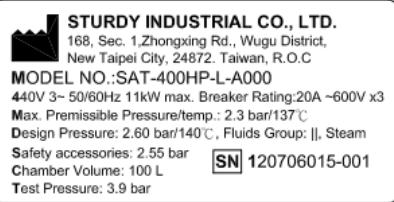
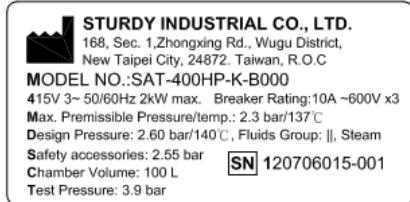
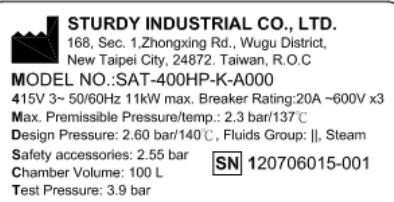
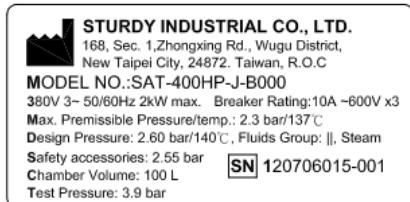
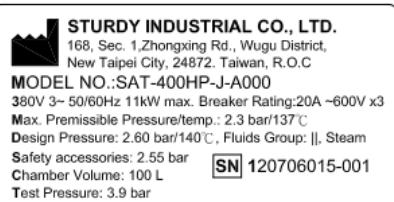
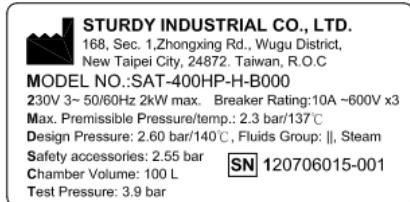
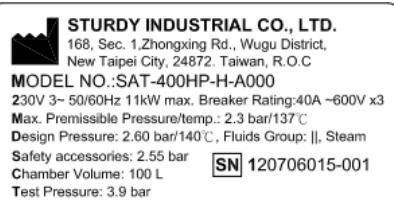
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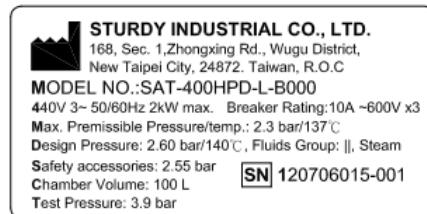
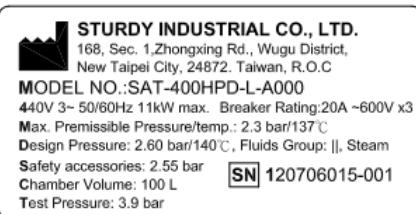
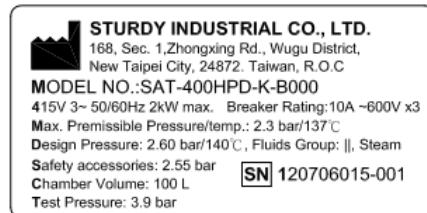
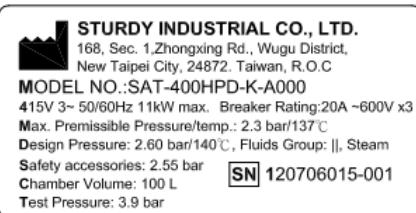
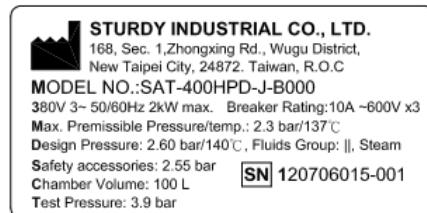
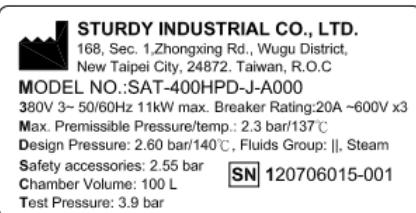
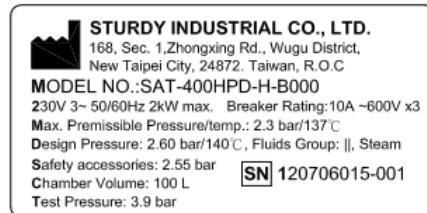
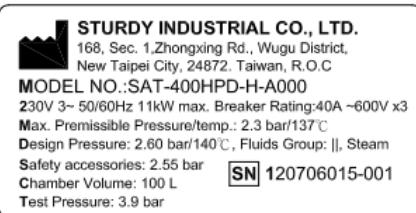
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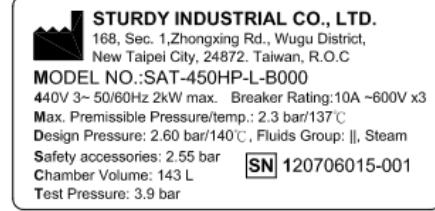
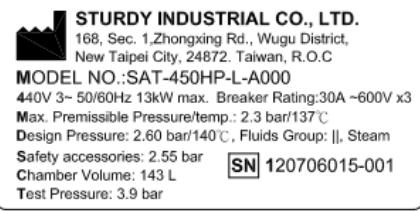
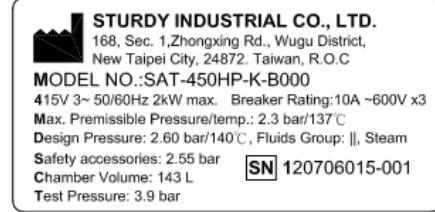
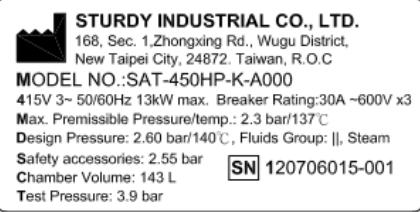
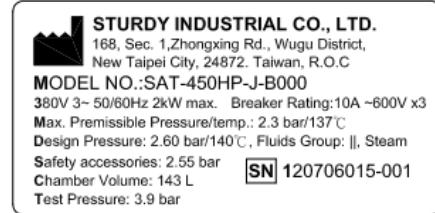
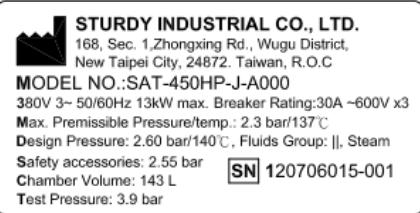
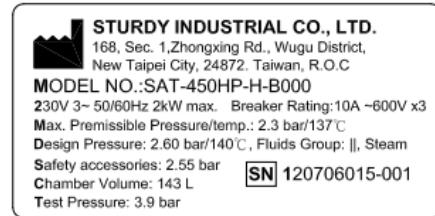
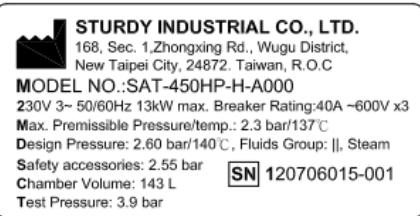
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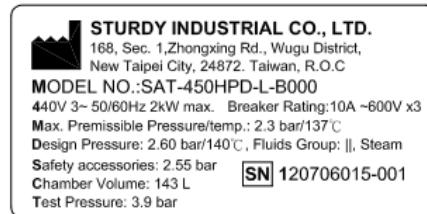
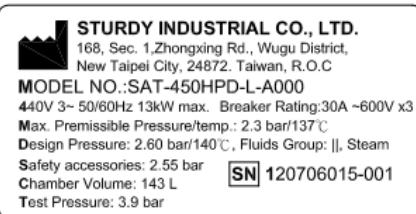
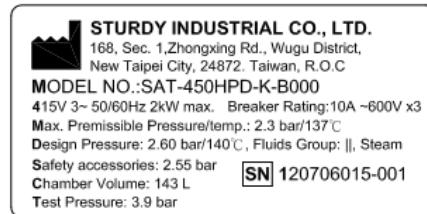
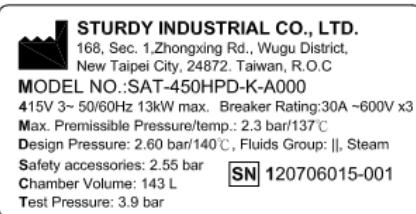
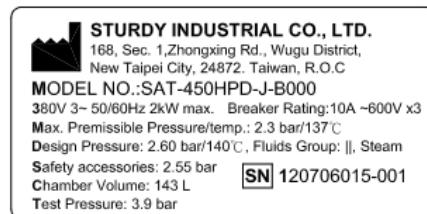
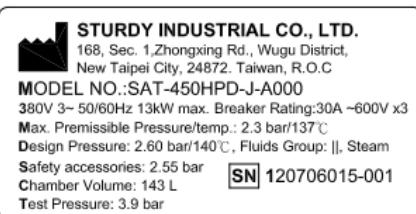
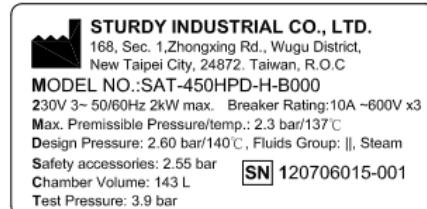
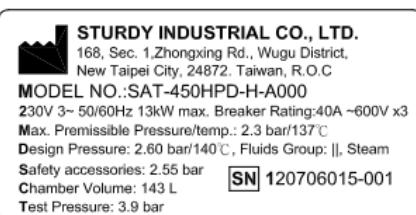


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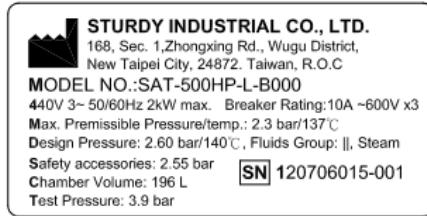
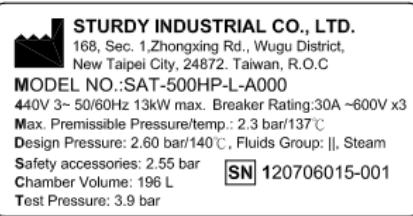
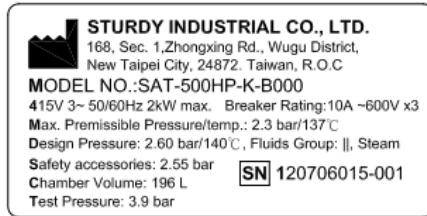
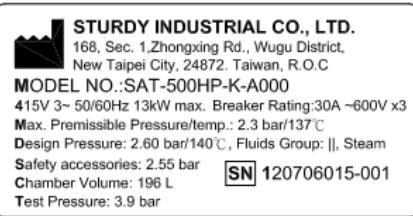
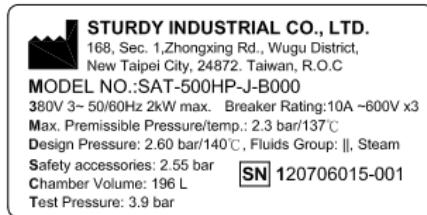
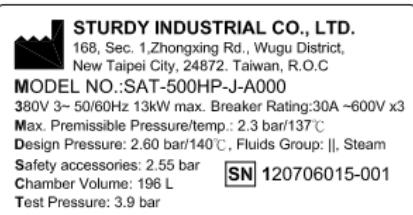
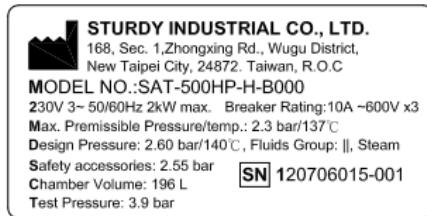
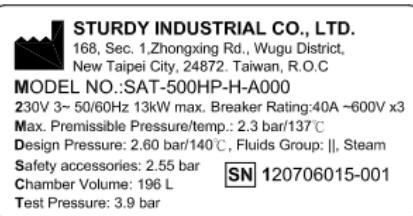
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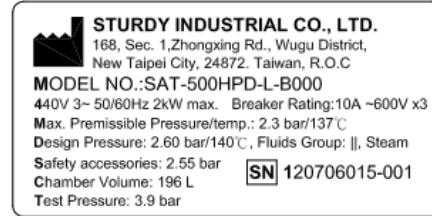
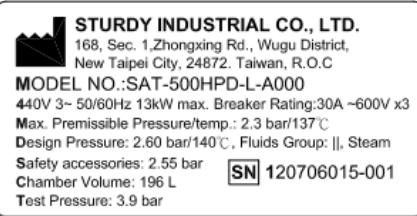
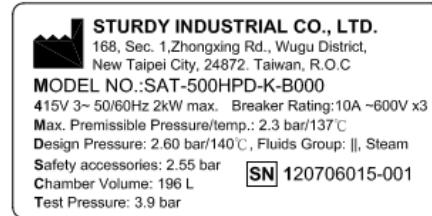
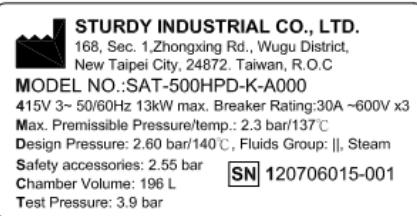
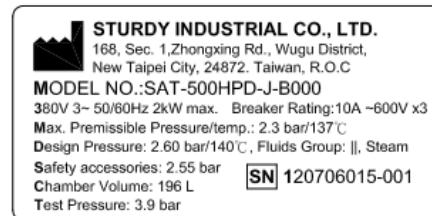
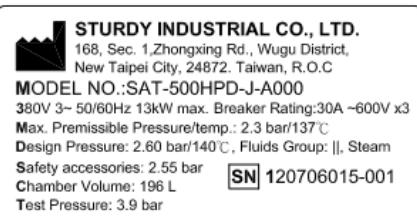
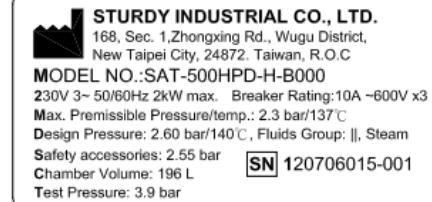
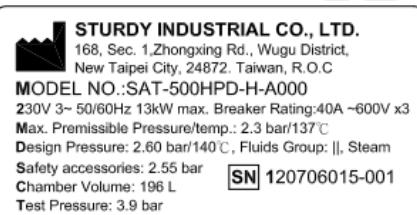
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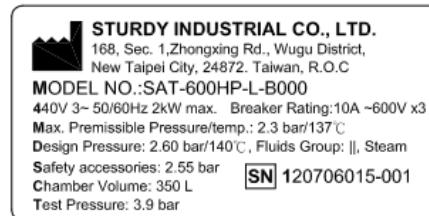
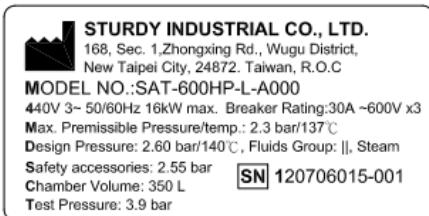
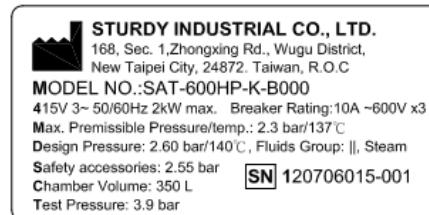
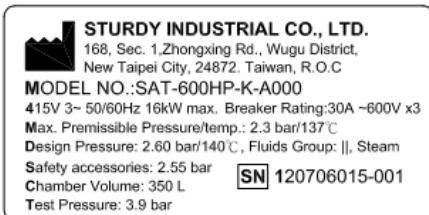
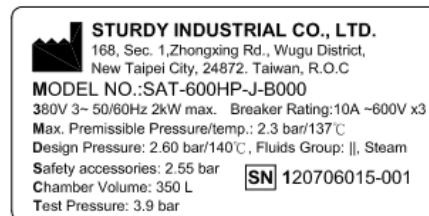
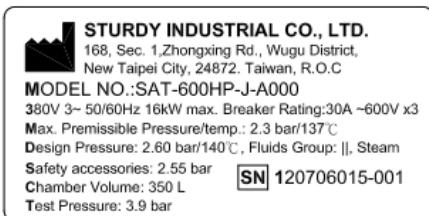
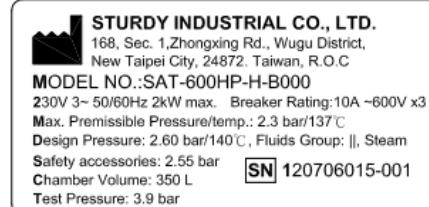
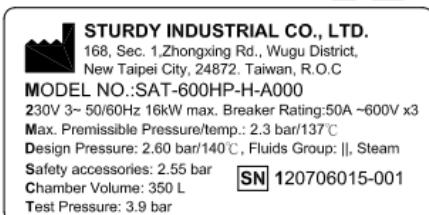
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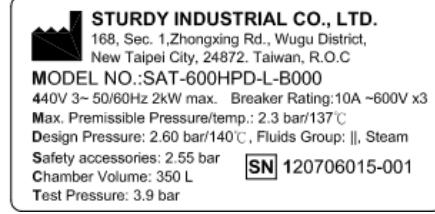
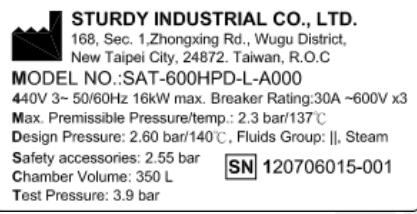
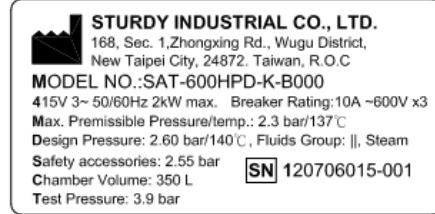
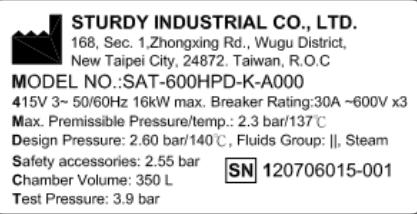
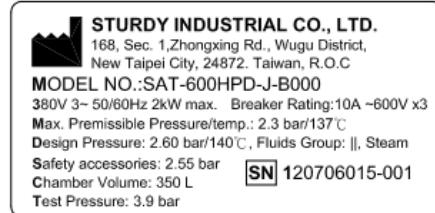
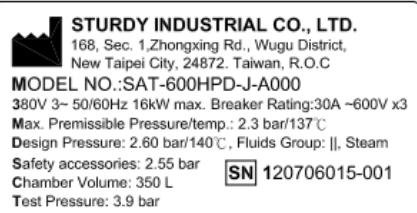
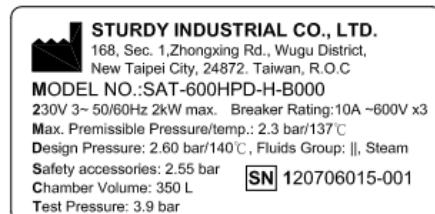
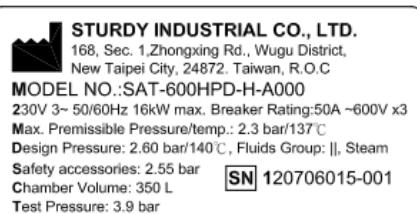
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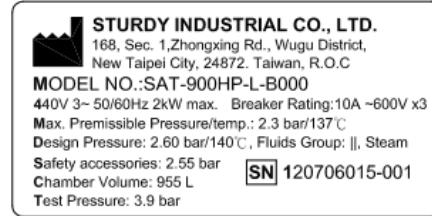
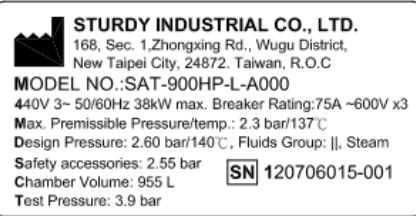
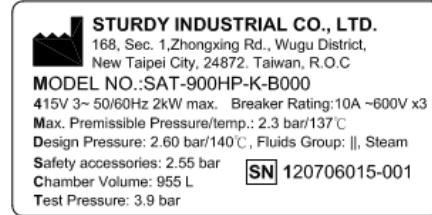
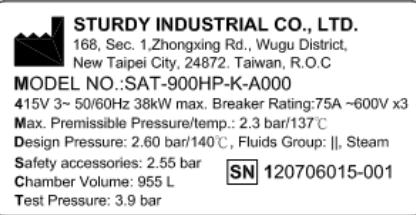
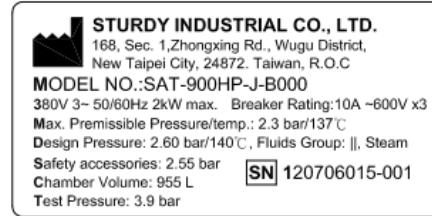
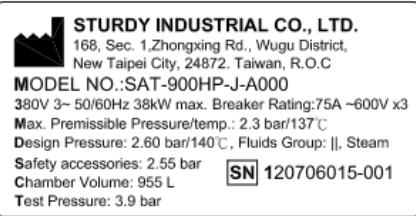
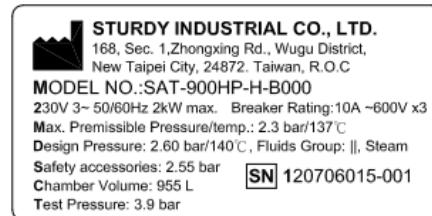
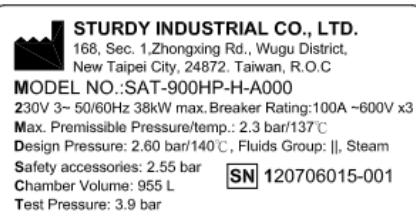
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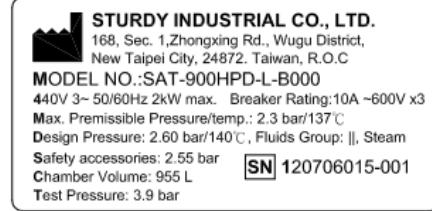
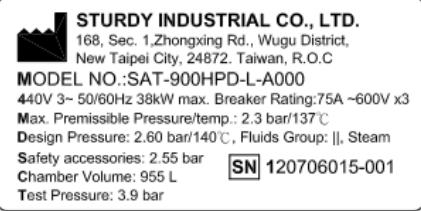
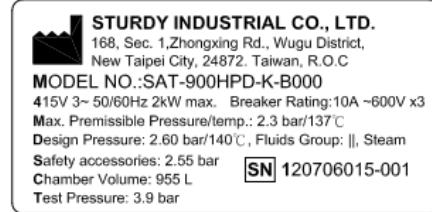
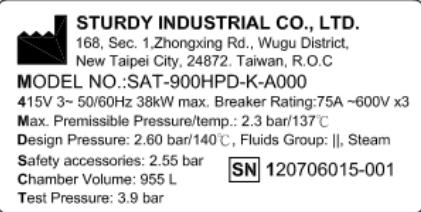
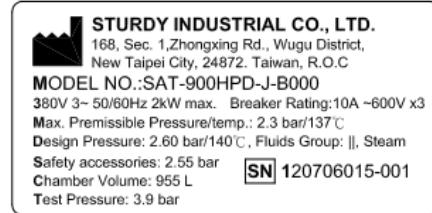
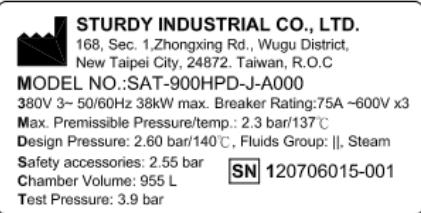
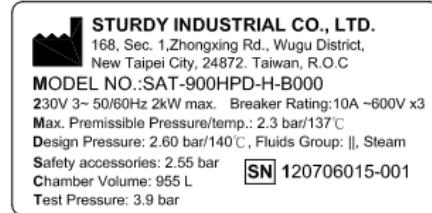
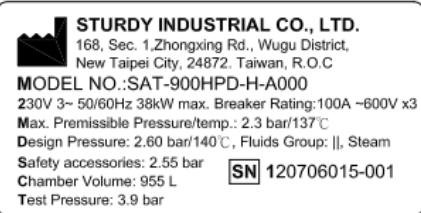
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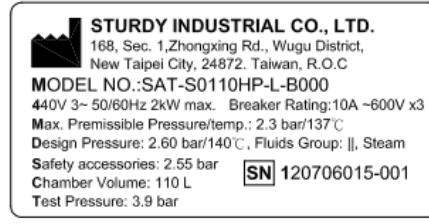
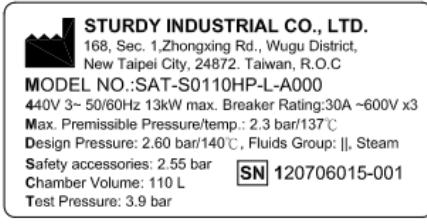
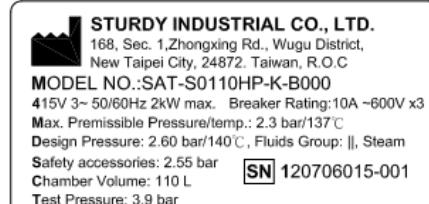
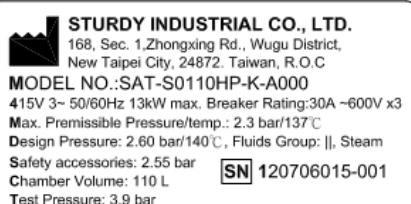
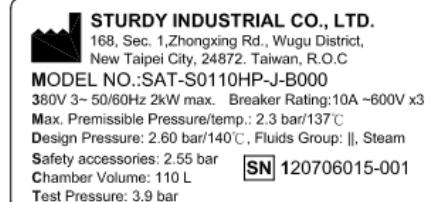
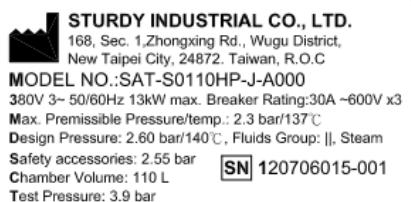
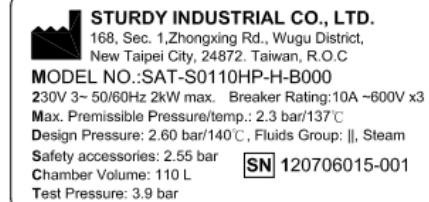
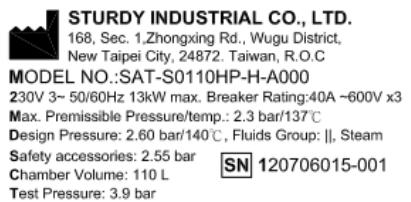
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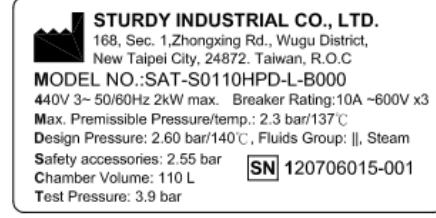
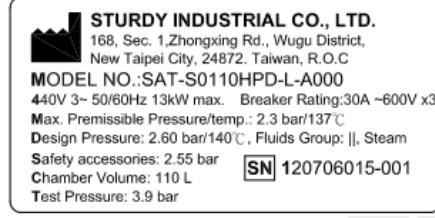
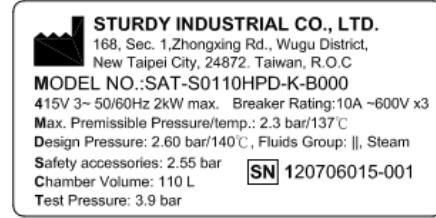
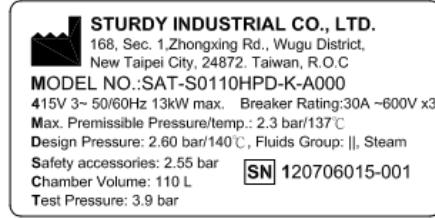
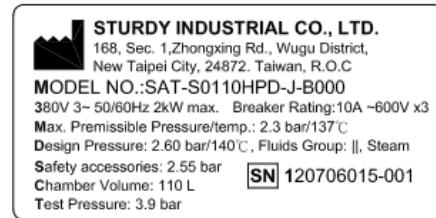
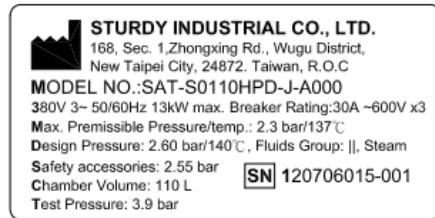
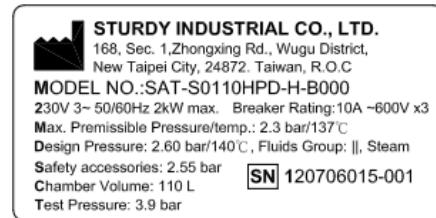
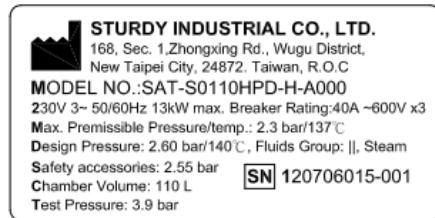
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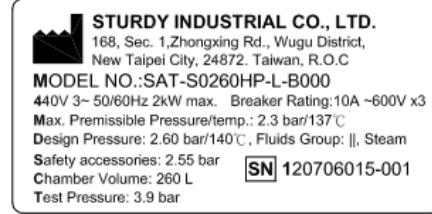
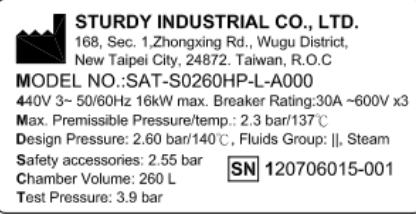
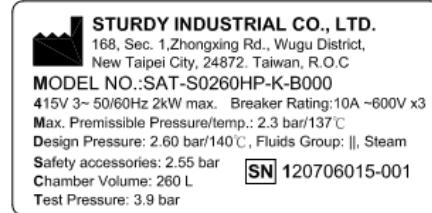
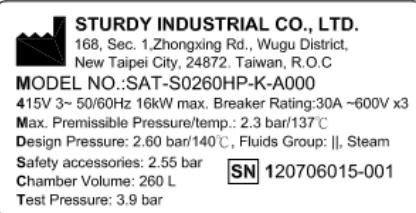
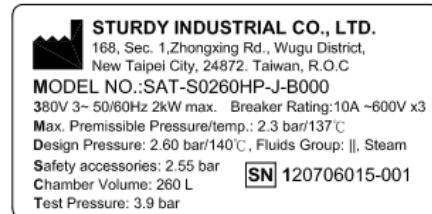
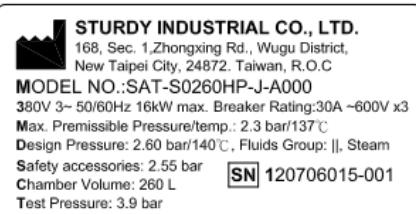
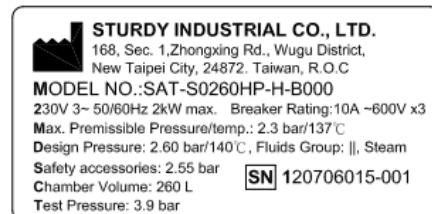
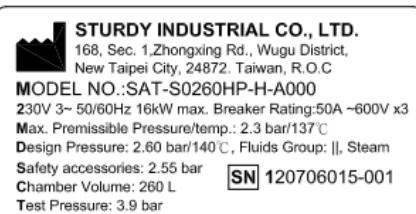


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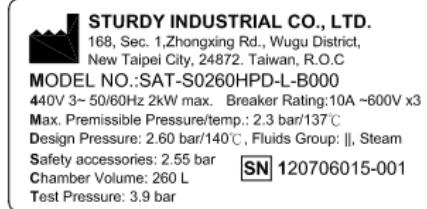
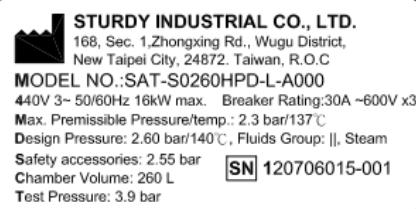
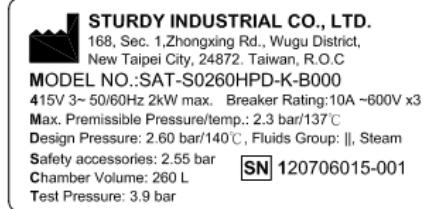
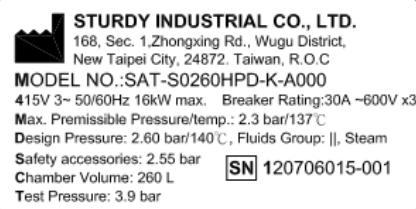
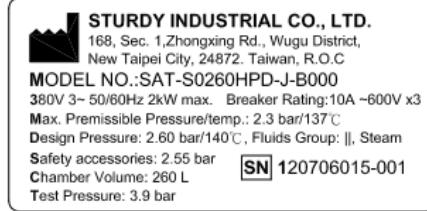
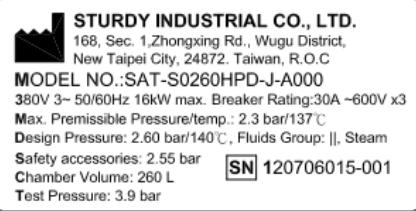
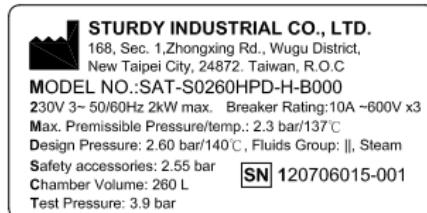
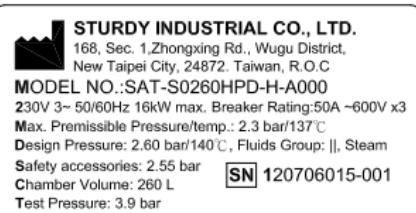
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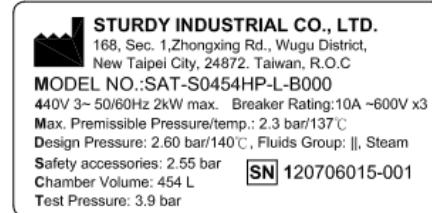
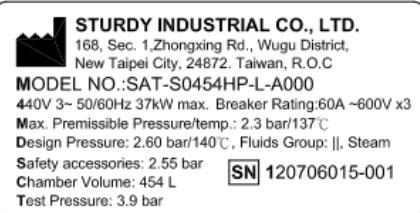
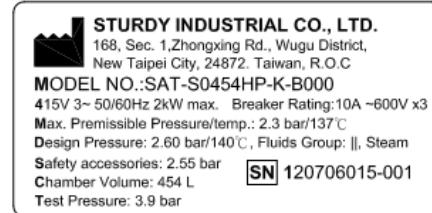
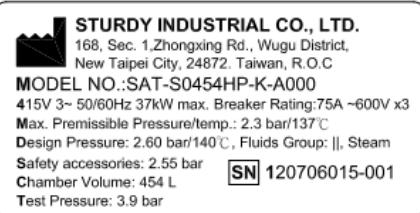
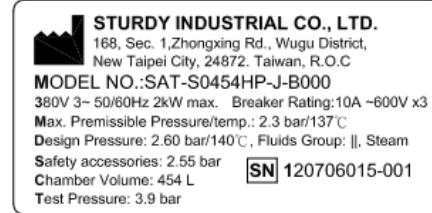
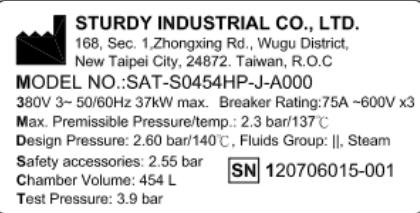
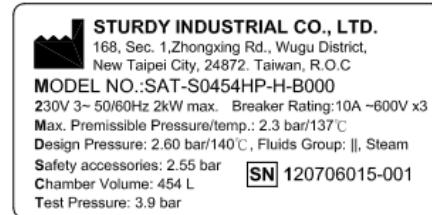
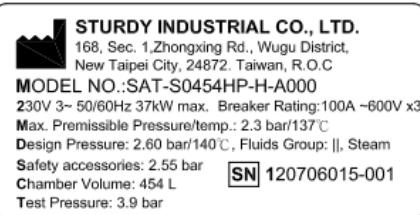
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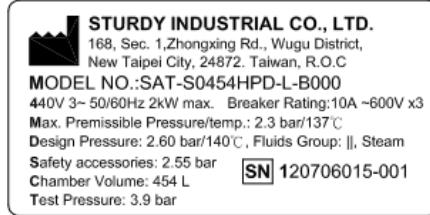
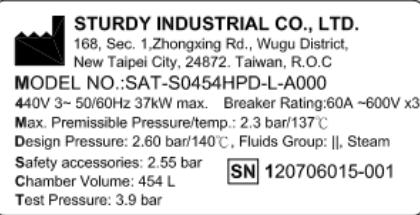
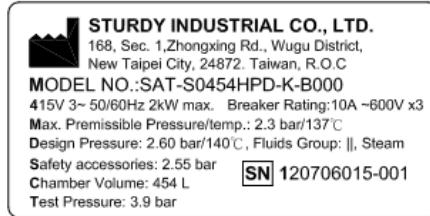
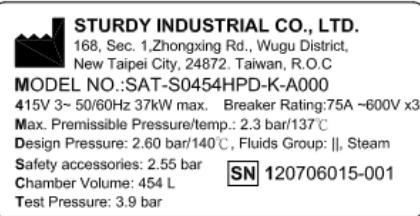
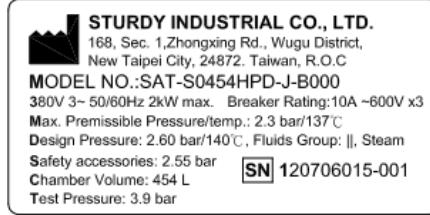
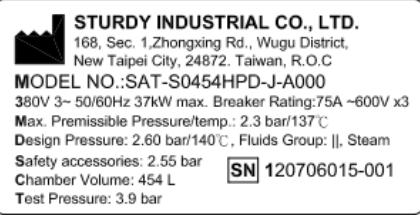
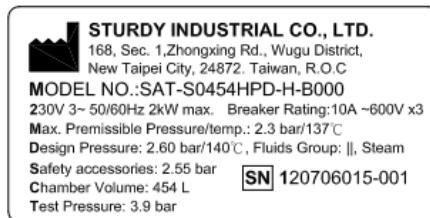
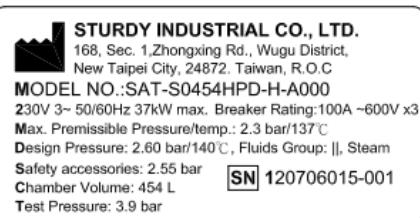


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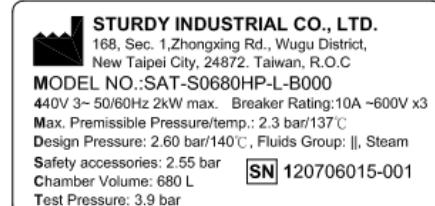
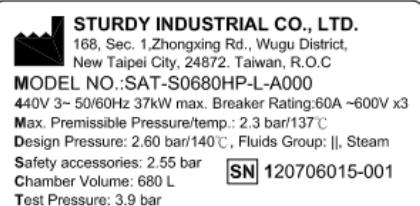
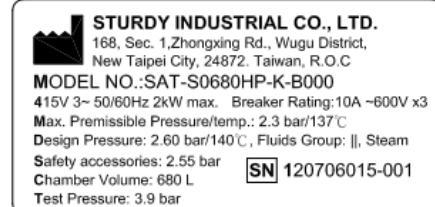
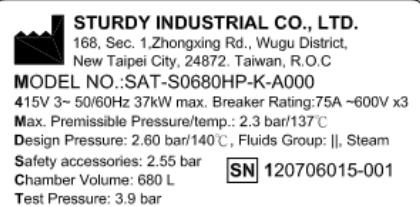
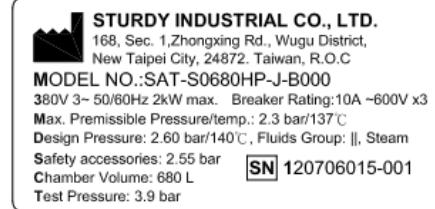
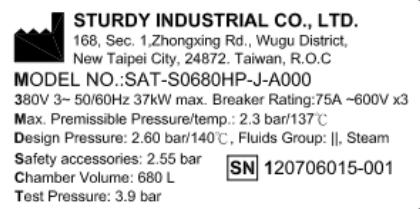
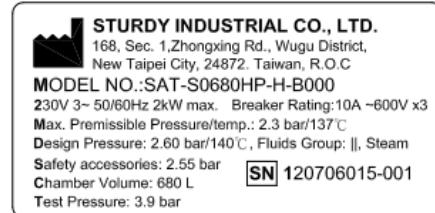
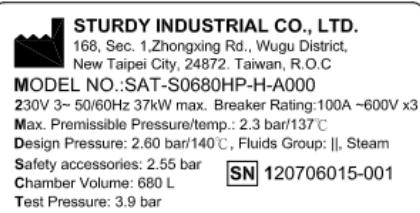
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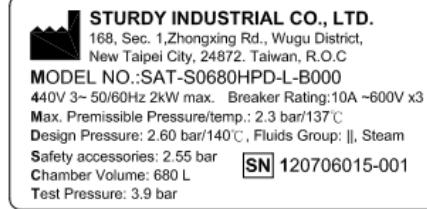
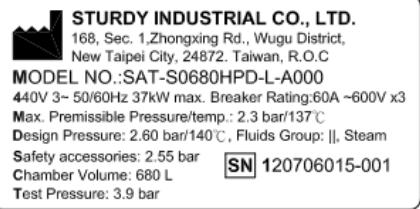
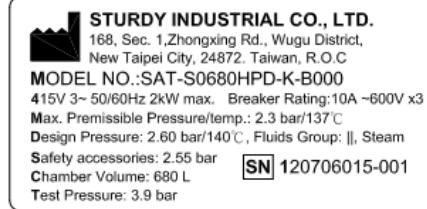
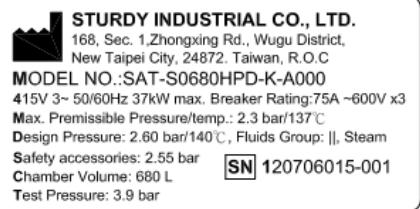
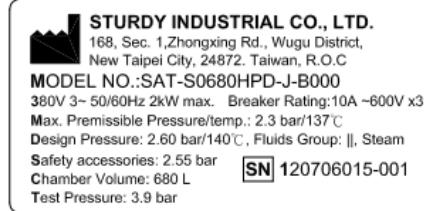
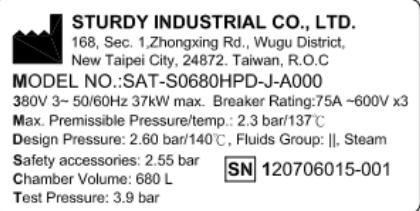
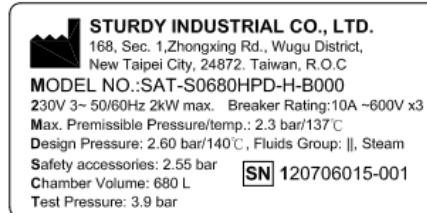
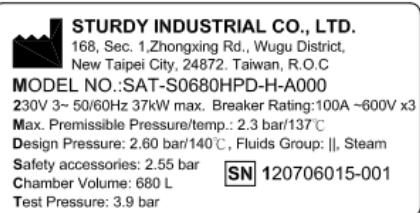
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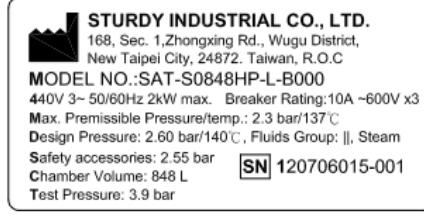
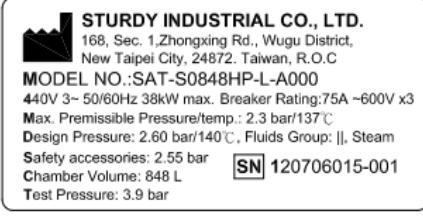
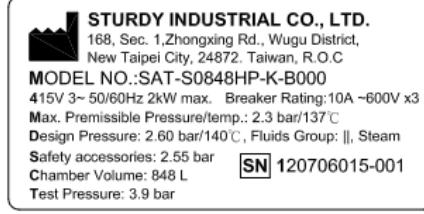
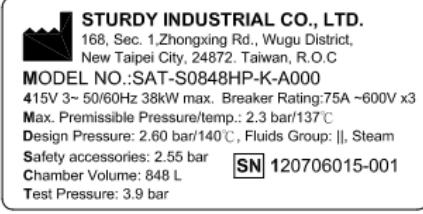
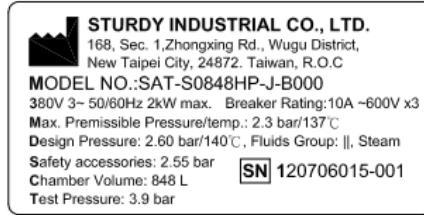
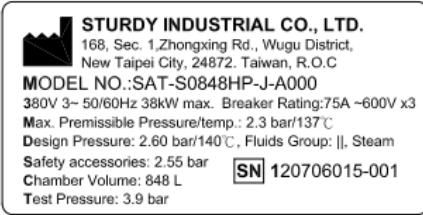
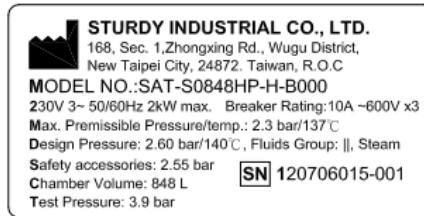
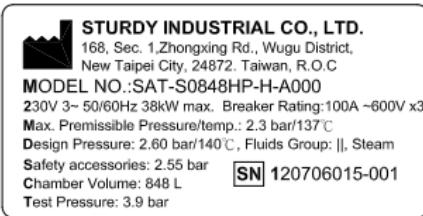
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 STURDY INDUSTRIAL CO., LTD. 168, Sec. 1,Zhongxing Rd., Wugu District, New Taipei City, 24872, Taiwan, R.O.C MODEL NO.:SAT-S0848HPD-J-A000 380V 3~ 50/60Hz 38kW max. Breaker Rating:75A ~600V x3 Max. Premissible Pressure/temp.: 2.3 bar/137°C Design Pressure: 2.60 bar/140°C, Fluids Group: II, Steam Safety accessories: 2.55 bar Chamber Volume: 848 L SN 120706015-001 Test Pressure: 3.9 bar	 STURDY INDUSTRIAL CO., LTD. 168, Sec. 1,Zhongxing Rd., Wugu District, New Taipei City, 24872, Taiwan, R.O.C MODEL NO.:SAT-S0848HPD-J-B000 380V 3~ 50/60Hz 2kW max. Breaker Rating:10A ~600V x3 Max. Premissible Pressure/temp.: 2.3 bar/137°C Design Pressure: 2.60 bar/140°C, Fluids Group: II, Steam Safety accessories: 2.55 bar Chamber Volume: 848 L SN 120706015-001 Test Pressure: 3.9 bar
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Test item particulars:

Type of item : Laboratory use equipment
Description of equipment function : Sterilizer
Connection to MAINS supply : Permanent
Overvoltage category : III
POLLUTION DEGREE : 2
Means of protection : Class I (Permanent PE connected)
Environmental conditions : Normal
For use in wet locations : No
Equipment mobility : Fixed
Operating conditions : Continuous
Overall size of equipment (W x D x H) : Refer to technical documentation for details
Mass of equipment (kg) : Refer to technical documentation for details
Marked degree of protection to IEC 60529 : None

Possible test case verdicts:

- Test case does not apply to the test object : N/A
- Test object does meet the requirement : P (Pass)
- Test object does not meet the requirement : F (Fail)

Testing:

Date of receipt of test item : Jan. 2nd, 2014
Date (s) of performance of tests : Jan. 2nd, 2014 - Apr. 28th, 2014

General remarks:

The test results presented in this report relate only to the object tested.
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"(see ENCLOSURE #)" refers to additional information appended to the report.

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

Bottom lines for measurement tables Form A.xx are optional if used as record.

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

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Manufacturer's Declaration per sub-clause 6.2.5 of IECEE 02:

The application for obtaining a Test Report includes Yes Not applicable 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.....:

When differences exist; they shall be identified in the General product information section.

Name and address of factory (ies).....: Sturdy Industrial Co., Ltd.
168, Sec. 1 , Zhongxing Road, Wugu District, New Taipei City 24872 , Taiwan, R.O.C

General product information:

This product is a high pressure steam sterilizer which is designed and developed for the sterilization of wrapped and unwrapped items.

Variable:	Range of variable:	Content:
X1	400 ~ 900; S0110 ~ S0848	Pressure vessel dimension (mm)
X2	Blank or D	The numbers of door Blank means single door; D means double doors
X3	H, J, K, L	Supply voltage of equipment; H means 230V 3~; J means 380V 3~; K means 415V 3~;L means 440V 3~
X4	A or B	Heater of provision for equipment A means heater of provision; B means no heater of provision
X5	000 - 999	Series number of accessories for equipment

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IEC 61010-1 / EN 61010-1			
Clause	Requirement + Test	Result - Remark	Verdict
4.4	Testing in SINGLE FAULT CONDITIONS		Pass
4.4.1	Fault tests	(see Form A.1)	Pass
4.4.2	Application of SINGLE FAULT CONDITIONS		Pass
4.4.2.1	SINGLE FAULT CONDITIONS not covered by 4.4.2.2 to 4.4.2.14	(see Form A.1)	—
4.4.2.2	PROTECTIVE IMPEDANCE		N/A
4.4.2.3	PROTECTIVE CONDUCTOR	(see Form A.1 and A.6)	Pass
4.4.2.4	Equipment or parts for short-term or intermittent operation		N/A
4.4.2.5	Motors	(see Form A.1)	Pass
	– stopped while fully energized		N/A
	– prevented from starting		Pass
	– one phase interrupted (multi-phase)		Pass
4.4.2.6	Capacitors	(see Form A.1)	Pass
4.4.2.7	MAINS transformers		Pass
4.4.2.7.2	Short circuit	(see Forms A.39)	Pass
4.4.2.7.3	Overload	(see Forms A.40)	Pass
4.4.2.8	Outputs		N/A
4.4.2.9	Equipment for more than one supply		N/A
4.4.2.10	Cooling	(see Form A.1 and A.26A)	Pass
	– air holes closed		Pass
	– fans stopped		Pass
	– coolant stopped		N/A
	– loss of cooling liquid		N/A
4.4.2.11	Heating devices		Pass
	– timer overridden		N/A
	– temperature controller overridden	(see Form A.1)	Pass
4.4.2.12	Insulation between circuits and parts		N/A
4.4.2.13	Interlocks	(see Form A.1)	Pass
4.4.2.14	Voltage selectors		N/A
4.4.3	Duration of tests	(see Form A.1)	—

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IEC 61010-1 / EN 61010-1			
Clause	Requirement + Test	Result - Remark	Verdict
4.4.4	Conformity after application of fault conditions	(see Forms A.1; A.6, A.18)	Pass
5 MARKING AND DOCUMENTATION			
5.1.1	Required equipment markings		Pass
	- Visible from the exterior; or		Pass
	- Visible after removing cover or opening door		N/A
	- Visible after removal from a rack or panel		N/A
	Not put on parts which can be removed by an operator		Pass
	Letter symbols (IEC 60027) used		N/A
	Graphic symbols (IEC 61010-1: Table 1) used		Pass
5.1.2	Identification		—
	Equipment is identified by:		Pass
	a) Manufacturer's or supplier's name or trademark	Refer to marking plate	Pass
	b) Model number, name or other means	See above	Pass
	Manufacturing location identified	See above	Pass
5.1.3	MAINS supply		Pass
	Equipment is marked as follows:		Pass
	a) Nature of supply:		—
	1) a.c. RATED MAINS frequency or range of frequencies	Refer to marking plate	Pass
	2) d.c. with symbol 1		N/A
	b) RATED supply voltage(s) or range.....:	Refer to marking plate	Pass
	c) Max. RATED power (W or VA) or input current....:	See above	Pass
	The marked value not less than 90 % of the maximum value	(see Form A.2)	Pass
	If more than one voltage range:		—
	Separate values marked; or		N/A
	Values differ by less than 20 %		N/A
	d) OPERATOR-set for different RATED supply voltages:		—
	Indicates the equipment set voltage	No such parts	N/A

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IEC 61010-1 / EN 61010-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Portable equipment indication is visible from the exterior		N/A
	Changing the setting changes the indication		N/A
	e) Accessory MAINS socket-outlets accepting standard MAINS plugs are marked:	No such parts	N/A
	With the voltage if it is different from the MAINS supply voltage		N/A
	For use only with specific equipment		N/A
	If not marked for specific equipment it is marked with:		N/A
	The maximum rated current or power; or		N/A
	Symbol 14 with full details in the documentation		N/A
5.1.4	Fuses	No such parts	N/A
	Operator replaceable fuse marking (see also 5.4.5)		N/A
5.1.5	TERMINALS, connections and operating devices		Pass
5.1.5.1	General		Pass
	Where necessary for safety, indication of purpose of TERMINALS, connectors, controls and indicators marked		Pass
	If insufficient space, symbol 14 used		Pass
	Push-buttons and actuators of emergency stop devices and indicators:		—
	used only to indicate a warning of danger or		N/A
	the need for urgent action		Pass
	coloured red		Pass
	coded as specified in IEC 60073		Pass
	Supplementary means of coding provided, if meaning of colour relates (see IEC 60073):		N/A
	to safety of persons; or		N/A
	safety of the environment		N/A
5.1.5.2	TERMINALS		Pass
	MAINS supply TERMINAL identified		Pass

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IEC 61010-1 / EN 61010-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Other TERMINAL marking:		Pass
	a) FUNCTIONAL EARTH TERMINALS (symbol 5 used)		N/A
	b) PROTECTIVE CONDUCTOR TERMINALS:		Pass
	Symbol 6 is placed close to or on the TERMINAL; or		Pass
	Part of appliance inlet		N/A
	c) TERMINALS of control circuits (symbol 7 used)		N/A
	d) HAZARDOUS LIVE TERMINALS supplied from the interior	No such parts	N/A
	Standard MAINS socket outlet; or		N/A
	RATINGS marked; or		N/A
	Symbol 14 used		N/A
5.1.6	Switches and circuit breakers		Pass
	If disconnecting device, off position clearly marked		Pass
	If push-button used as power supply switch:	No such parts	N/A
	Symbol 9 and 15 used for on-position		N/A
	Symbol 10 and 16 used for off-position		N/A
	Pair of symbols 9, 15 and 10, 16 close together		N/A
5.1.7	Equipment protected by DOUBLE INSULATION or REINFORCED INSULATION		N/A
	Protected throughout (symbol 11 used)	No such parts	N/A
	Only partially protected (symbol 11 not used)		N/A
5.1.8	Field-wiring TERMINAL boxes	No such parts	N/A
	If TERMINAL or ENCLOSURE exceeds 60 °C:		N/A
	Cable temperature RATING marked		N/A
	Marking visible before and during connection or beside TERMINAL		N/A
5.2	Warning markings		Pass
	Visible when ready for NORMAL USE		Pass
	Are near or on applicable parts		Pass
	Symbols and text correct dimensions and colour:		—

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IEC 61010-1 / EN 61010-1			
Clause	Requirement + Test	Result - Remark	Verdict
	a) symbols min 2,75 mm and text 1,5 mm high and contrasting in colour with background		Pass
	b) symbols and text moulded, stamped or engraved in material min. 2,0 mm high and		N/A
	0,5 mm depth or raised if not contrasting in colour		N/A
	If necessary marked with symbol 14		Pass
	Statement to isolate or disconnect if access by using a tool to HAZARDOUS LIVE parts is permitted		N/A
5.3	Durability of markings		Pass
	The required markings remain clear and legible in NORMAL USE	(see Form A.3)	Pass
5.4	Documentation		Pass
5.4.1	General		Pass
	Equipment is accompanied by documentation for safety purposes for OPERATOR or RESPONSIBLE BODY		Pass
	Safety documentation for service personnel authorized by the manufacturer		Pass
	Documentation necessary for safe operation is provided in printed media or		Pass
	in electronic media if available at any time		N/A
	Documentation includes:		—
	a) intended use	Refer to instruction manual section "Introduction - Intended use"	Pass
	b) technical specification	Refer to instruction manual section "Specifications"	Pass
	c) name and address of manufacturer or supplier	Refer to the last page of instruction manual	Pass
	d) information specified in 5.4.2 to 5.4.6		Pass
	e) information to mitigate residual RISK (see also subclause 17)		N/A
	f) accessories for safe operation of the equipment specified	Refer to instruction manual section "Specifications"	Pass

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IEC 61010-1 / EN 61010-1			
Clause	Requirement + Test	Result - Remark	Verdict
	g) guidance provided to check correct function of the equipment, if incorrect reading may cause a HAZARD from harmful or corrosive substances of HAZARDOUS live parts	Refer to instruction manual section "Error table"	Pass
	h) instructions for lifting and carrying		N/A
	Warning statements and a clear explanation of warning symbols:		—
	Provided in the documentation; or	Refer to instruction manual section "Explanation of safety symbols and notes"	Pass
	Information is marked on the equipment		Pass
5.4.2	Equipment ratings		Pass
	Documentation includes:		—
	a) Supply voltage or voltage range	Refer to instruction manual section "Specifications" for voltage range	Pass
	Frequency or frequency range		N/A
	Power or current rating	Refer to instruction manual section "Specifications" for wattage	Pass
	b) Description of all input and output connections in accordance to 6.6.1 a)		N/A
	c) RATING of insulation of external circuits in accordance to 6.6.1 b)		N/A
	d) Statement of the range of environmental conditions (see 1.4)	Refer to instruction manual section "Specifications"	Pass
	e) Degree of protection (IEC 60529)	Ordinary protection	N/A
	f) if impact rating less than 5 J:	No such parts	N/A
	IK code in accordance to IEC 62262 marked or symbol 14 of table 1 marked, with		N/A
	RATED energy level and test method stated		N/A
5.4.3	Equipment installation	Refer to instruction manual section "Installation"	Pass
	Documentation includes instructions for:		Pass
	a) assembly, location and mounting requirements	Refer to instruction manual section "Installation"	Pass

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IEC 61010-1 / EN 61010-1			
Clause	Requirement + Test	Result - Remark	Verdict
	b) protective earthing	Refer to instruction manual section "Installation"	Pass
	c) connections to supply	Refer to instruction manual section "Installation"	Pass
	d) PERMANENTLY CONNECTED EQUIPMENT:	Refer to instruction manual section "Installation"	Pass
	1) Supply wiring requirements		Pass
	2) If external switch or circuit-breaker, requirements and location recommendation	No such parts	N/A
	e) ventilation requirements		N/A
	f) special services (e. g. air, cooling liquid)		N/A
	g) instructions relating to sound level		N/A
5.4.4	Equipment operation		Pass
	Instructions for use include:		Pass
	a) identification and description of operating controls	Refer to instruction manual section "Operation"	Pass
	b) positioning for disconnection	Refer to instruction manual section "Installation"	Pass
	c) instructions for interconnection		N/A
	d) specification of intermittent operation limits		N/A
	e) explanation of symbols used	Refer to instruction manual section "Explanation of safety symbols and notes"	Pass
	f) replacement of consumable materials	Refer to instruction manual section "Maintenance instructions"	Pass
	g) cleaning and decontamination	Refer to instruction manual section "Maintenance instructions"	Pass
	h) listing of any poisonous or injurious gases and quantities	No such parts	N/A
	i) RISK reduction procedures relating to flammable liquids (see 9.5)		N/A
	j) RISK reduction procedures relating burn from surfaces permitted to exceed limits of 10.1		N/A

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IEC 61010-1 / EN 61010-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Additional precautions for IEC 60950 conforming equipment in regard to moistures and liquids		N/A
	A statement about protection impairment if used in a manner not specified by the manufacturer	Refer to instruction manual section "Important safety instructions"	Pass
5.4.5	Equipment maintenance and Service		Pass
	Instructions for RESPONSIBLE BODY include:		—
	Instructions sufficient in detail permitting safe maintenance and inspection and continued safety:	Refer to instruction manual section "Maintenance instructions"	Pass
	Instruction against the use of detachable MAINS supply cord with inadequate rating	No such parts	N/A
	Specific battery type of user replaceable batteries	No such parts	N/A
	Any manufacturer specified parts	Refer to instruction manual section "Specifications"	Pass
	Rating and characteristics of fuses	No such parts	N/A
	Instructions include following subjects permitting safe servicing and continued safety:	No such parts	N/A
	a) product specific RISKS may affect service personnel		N/A
	b) protective measures for these RISKS		N/A
	c) verification of the safe state after repair		N/A
5.4.6	Integration into systems or effects resulting from special conditions	No such parts	N/A
	Aspects described in documentation		N/A

6	PROTECTION AGAINST ELECTRIC SHOCK		Pass
6.1	General	(see Form A.14 and A.15)	Pass
6.1.1	Requirements		—
	Protection against electric shock maintained in NORMAL CONDITION and SINGLE FAULT CONDITION		Pass
	ACCESSIBLE parts not HAZARDOUS LIVE		Pass
	Voltage, current, charge or energy below the limits in NORMAL CONDITION and in SINGLE FAULT CONDITION between:		—

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IEC 61010-1 / EN 61010-1			
Clause	Requirement + Test	Result - Remark	Verdict
	ACCESSIBLE parts and earth		Pass
	two ACCESSIBLE parts on same piece of the equipment within a distance of 1,8 m		N/A
	Conformity is checked by the determination of 6.2 and 6.3 followed by the tests of 6.4 to 6.11		Pass
6.1.2	Exceptions	No such parts	N/A
	Following HAZARDOUS LIVE parts may be ACCESSIBLE to an OPERATOR:		N/A
	a) parts of lamps and lamp sockets after lamp removal		N/A
	b) parts to be replaced by OPERATOR only by the use of tool and warning marking		N/A
	Those parts not HAZARDOUS LIVE 10 s after interruption of supply		N/A
	Capacitance test if charge is received from internal capacitor		N/A
6.2	Determination of ACCESSIBLE parts	(see Form A.5)	Pass
6.2.1	General		Pass
	Unless obviously determination of ACCESSIBLE parts as specified in 6.2.2 to 6.2.4		Pass
6.2.2	Examination		Pass
	- with jointed test finger (as specified B.2)		Pass
	- with rigid test finger (as specified B.1) and a force of 10 N		Pass
6.2.3	Openings above parts that are HAZARDOUS LIVE		Pass
	- test pin with length of 100 mm and 4 mm in diameter applied		Pass
6.2.4	Openings for pre-set controls	No such parts	N/A
	- test pin with length of 100 mm and 3 mm in diameter applied		N/A
6.3	Limit values for ACCESSIBLE parts		Pass
6.3.1	Levels in NORMAL CONDITION	(see Form A.5)	Pass
	a) Voltage limits less than 33 V r.m.s. and 46,7 V peak or 70 V d.c.		Pass

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IEC 61010-1 / EN 61010-1			
Clause	Requirement + Test	Result - Remark	Verdict
	for WET LOCATIONS voltage limits less than 16 V r.m.s. and 22,6 V peak or 35 V d.c.	For dry location only.	N/A
	Voltages are not HAZARDOUS LIVE the levels of:		—
	b) Current less than 0,5 mA r.m.s. for sinusoidal, 0,7 mA peak non sinusoidal or mixed frequencies or 2 mA d.c. when measured with measuring circuit A.1 or A.2 if less than 100 Hz		N/A
	for WET LOCATIONS measuring circuit A.4 used		N/A
	70 mA r.m.s. when measured with circuit A.3 for higher frequencies		N/A
	or		—
	c) Levels of capacitive charge or energy less:		N/A
	1) 45 µC for voltages up to 15 kV peak or d.c. or line A of Figure 3		N/A
	2) 350 mJ stored energy for voltages above 15 kV peak or d.c.		N/A
6.3.2	Levels in SINGLE FAULT CONDITION	(see Form A.6)	Pass
	a) Voltage limits less than 55 V r.m.s. and 78 V peak or 140 V d.c.		Pass
	for WET LOCATIONS voltage limits less than 33 V r.m.s. and 46,7 V peak or 70 V d.c.	For dry location only.	N/A
	Voltages are not HAZARDOUS LIVE the levels of:		—
	b) Current less than 3,5 mA r.m.s. for sinusoidal, 5 mA peak non sinusoidal or mixed frequencies or 15 mA d.c. when measured with measuring circuit A.1 or A.2 if less than 100 Hz		N/A
	for WET LOCATIONS measuring circuit A.4 used		N/A
	500 mA r.m.s. when measured with circuit A.3 for higher frequencies		N/A
	or		—
	c) Levels of capacitive charge or energy less line B of Figure 3		N/A
6.4	Primary means of protection		Pass
6.4.1	ACCESSIBLE parts prevented from being HAZARDOUS LIVE by one or more of following means:		Pass
	a) ENCLOSURES or PROTECTIVE BARRIERS (see 6.4.2)		Pass

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IEC 61010-1 / EN 61010-1			
Clause	Requirement + Test	Result - Remark	Verdict
	b) BASIC INSULATION (see 6.4.3)		Pass
	c) Impedance (see 6.4.4)		N/A
6.4.2	ENCLOSURES or PROTECTIVE BARRIERS	(see Form A.15)	Pass
	- meet rigidity requirements of 8.1		Pass
	- meet requirements for BASIC INSULATION, if protection is provided by insulation		Pass
	- meet requirements of 6.7 for CREEPAGE and CLEARANCES between ACCESSIBLE parts and HAZARDOUS live parts, if protection is provided by limited access		Pass
6.4.3	BASIC INSULATION	(see Form A.15)	Pass
	- meet CLEARANCE, CREEPAGE DISTANCE and solid insulation requirements of 6.7		Pass
6.4.4	Impedance	No such parts	N/A
	Impedance used as primary means of protection meets all of following requirements:		—
	a) limits current or voltage to level of 6.3.2		N/A
	b) RATED for maximum WORKING VOLTAGE and the amount of power it will dissipate		N/A
	c) CLEARANCE, CREEPAGE DISTANCE between terminations of the impedance meet requirements of BASIC INSULATION of 6.7		N/A
6.5	Additional means of protection in case of SINGLE FAULT CONDITION		Pass
6.5.1	ACCESSIBLE parts are prevented from becoming HAZARDOUS live by the primary means of protection and supplemented by one of:		Pass
	a) PROTECTIVE BONDING (see 6.5.2)		Pass
	b) SUPPLEMENTARY INSULATION (see 6.5.3)		N/A
	c) automatic disconnection of the supply (see 6.5.5)		N/A
	d) current- or voltage-limiting device (see 6.5.6)		N/A
	Alternatively one of the single means of protection is used:		N/A
	e) REINFORCED INSULATION (see 6.5.3)		N/A
	f) PROTECTIVE IMPEDANCE (see 6.5.4)		N/A

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IEC 61010-1 / EN 61010-1			
Clause	Requirement + Test	Result - Remark	Verdict
6.5.2	PROTECTIVE BONDING	(see Forms A.7, A.8, A.10 and A.11)	Pass
6.5.2.1	ACCESSIBLE conductive parts, may become HAZARDOUS LIVE in SINGLE FAULT CONDITION:		Pass
	Bonded to the PROTECTIVE CONDUCTOR TERMINAL; or		Pass
	Separated by conductive screen or barrier bonded to PROTECTIVE CONDUCTOR TERMINAL		Pass
6.5.2.2	Integrity of PROTECTIVE BONDING		Pass
	a) PROTECTIVE BONDING consists of directly connected structural parts or discrete conductors or both; and withstands thermal and dynamic stresses		Pass
	b) Soldered connections:		N/A
	Independently secured against loosening		Pass
	Not used for other purposes		Pass
	c) Screw connections are secured		Pass
	d) PROTECTIVE BONDING not interrupted; or		Pass
	exempted as removable part carries MAINS SUPPLY input connection	No such parts	N/A
	e) Any movable PROTECTIVE BONDING connection specifically designed, and meets 6.5.2.4		N/A
	f) No external metal braid of cables used (not regarded as PROTECTIVE BONDING)		N/A
	g) If MAINS SUPPLY passes through:		Pass
	Means provided for passing protective conductor;		Pass
	Impedance meets 6.5.2.4		Pass
	h) Protective conductors bare or insulated, if insulated, green/yellow	Green/yellow colour	Pass
	Exceptions:		Pass
	1) earthing braids;		Pass
	2) internal protective conductors etc.;		N/a
	Green/yellow not used for other purposes		N/A
	TERMINAL suitable for connection of a PROTECTIVE CONDUCTOR, and meets 6.5.2.3		N/A

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IEC 61010-1 / EN 61010-1			
Clause	Requirement + Test	Result - Remark	Verdict
6.5.2.3	PROTECTIVE CONDUCTOR TERMINAL	No such parts	Pass
a)	Contact surfaces are metal		Pass
b)	Appliance inlet used		N/A
c)	For rewirable cords and PERMANENTLY CONNECTED EQUIPMENT, PROTECTIVE CONDUCTOR TERMINAL is close to MAINS supply TERMINALS		N/A
d)	If no MAINS supply is required, any PROTECTIVE CONDUCTOR TERMINAL:		N/A
	Is near terminals of circuit for which protective earthing is necessary		N/A
	External if other terminals external		N/A
e)	Equivalent current-carrying capacity to MAINS supply TERMINALS	(see Form A.7)	Pass
f)	If plug-in, makes first and breaks last		N/A
g)	If also used for other bonding purposes, PROTECTIVE CONDUCTOR:		N/A
	Applied first;		N/A
	Secured independently;		N/A
	Unlikely to be removed by servicing		N/A
h)	PROTECTIVE CONDUCTOR of measuring circuit:		N/A
	1) Current RATING equivalent to measuring circuit TERMINAL;		N/A
	2) PROTECTIVE BONDING:		N/A
	Not interrupted; or		N/A
i)	FUNCTIONAL EARTH TERMINALS allow independent connection		N/A
j)	If a binding screw used for PROTECTIVE CONDUCTOR TERMINAL:	(see Form A.8)	Pass
	Suitable size for bond wire		Pass
	Not smaller than M 4		Pass
	At least 3 turns of screw engaged		Pass
	Passes tightening torque test		Pass
k)	Contact pressure not capable being reduced by deformation of materials		Pass

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IEC 61010-1 / EN 61010-1			
Clause	Requirement + Test	Result - Remark	Verdict
6.5.2.4	Impedance of PROTECTIVE BONDING of plug-connected equipment	No such parts	N/A
	Impedance between PROTECTIVE CONDUCTOR TERMINAL and each ACCESSIBLE part where PROTECTIVE BONDING is specified, is:		—
	less than 0,1 Ohm; or		N/A
	less than 0,2 Ohm if equipment is provided with non detachable cord		N/A
6.5.2.5	Bonding impedance of PERMANENTLY CONNECTED EQUIPMENT	(see Form A.10)	Pass
6.5.2.6	Transformer PROTECTIVE BONDING screen	(see Form A.11)	Pass
	Transformer provided with screen for PROTECTIVE BONDING:		Pass
	screen bonding consists of directly connected structural parts or discrete conductors or both; and withstands thermal and dynamic stresses (see 6.5.2.2 a)		Pass
	screen bonding with soldered connection (see 6.5.2.2 b) is:		N/A
	- Independently secured against loosening		Pass
	- Not used for other purposes		Pass
6.5.3	SUPPLEMENTARY and REINFORCED INSULATION		N/A
	Meet CLEARANCE, CREEPAGE DISTANCE and solid insulation requirements of 6.7		N/A
6.5.4	PROTECTIVE IMPEDANCE	No such parts	N/A
	Limits current or voltage to level of 6.3.1 in NORMAL and to level of 6.3.2 in SINGLE FAULT CONDITION		N/A
	CLEARANCE, CREEPAGE DISTANCE between terminations of the impedance meet requirements of DOUBLE or REINFORCED INSULATION of 6.7		N/A
	The PROTECTIVE IMPEDANCE consists of one or more of the following:		—
	a) appropriate single component suitable for safety and reliability for protection, it is:		N/A
	1) RATED twice the maximum WORKING VOLTAGE		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	2) resistor RATED for twice the power dissipation for maximum WORKING VOLTAGE		N/A
b)	combination of components		N/A
	Single electronic device not used as PROTECTIVE IMPEDANCE		N/A
6.5.5	Automatic disconnection of the supply	No such parts	N/A
a)	RATED to disconnect the load within time specified in Figure 2		N/A
b)	RATED for the maximum load conditions of the equipment		N/A
6.5.6	Current- or voltage-limiting devices	No such parts	N/A
	Device complies with all of:		N/A
a)	RATED to limit the current or voltage to the level of 6.3.2		N/A
b)	RATED for the maximum WORKING VOLTAGE; and		N/A
	RATED for the maximum operational current if applicable		N/A
c)	CLEARANCE, CREEPAGE DISTANCE between terminations of the impedance meet requirements of SUPPLEMENTARY INSULATION of 6.7		N/A
6.6	Connections to external circuits	No such parts	N/A
6.6.1	Connections do not cause ACCESSIBLE parts of the following to become HAZARDOUS LIVE in NORMAL CONDITION or SINGLE FAULT CONDITION:		N/A
	- the external circuits		N/A
	- the equipment		N/A
	Protection achieved by separation of circuits; or		N/A
	short circuit of separation does not cause a HAZARD		N/A
	Instructions or markings for each terminal include:		N/A
a)	RATED conditions for TERMINAL		N/A
b)	Required RATING of external circuit insulation		N/A
6.6.2	TERMINALS for external circuits	No such parts	N/A

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IEC 61010-1 / EN 61010-1			
Clause	Requirement + Test	Result - Remark	Verdict
	TERMINALS which receive a charge from an internal capacitor are not HAZARDOUS LIVE after 10 s of interrupting supply connection		N/A
6.6.3	Circuits with terminals which are HAZARDOUS LIVE	No such parts	N/A
	These circuits are:		N/A
	Not connected to ACCESSIBLE conductive parts; or		N/A
	Connected to ACCESSIBLE conductive parts, but are not MAINS CIRCUITS and have one TERMINAL contact at earth potential		N/A
	No ACCESSIBLE conductive parts are HAZARDOUS LIVE		N/A
6.6.4	ACCESSIBLE terminals for stranded conductors	No such parts	N/A
	No RISK of accidental contact because:		N/A
	Located or shielded		N/A
	Self-evident or marked whether or not connected to ACCESSIBLE conductive parts		N/A
	ACCESSIBLE TERMINALS will not work loose		N/A
6.7	Insulation requirements	(see Form A.14)	Pass
6.7.1	The nature of insulation		Pass
6.7.1.1	Insulation between ACCESSIBLE parts or between separate circuits consist of CLEARANCES, CREEPAGE DISTANCES and solid insulation if provided as protection against a HAZARD		Pass
6.7.1.2	CLEARANCES		Pass
	Required CLEARANCES reflecting factors of 6.7.1.1	(see Form A.14, A.15)	Pass
	Equipment rated for operating altitude greater than 2000 m correction factor of Table 3 of 61010-1 applied	Below 2000 m.	N/A
6.7.1.3	CREEPAGE DISTANCES		Pass
	Required CREEPAGE DISTANCES reflecting factors of 6.7.1.1 a) to d)	(see Form A.14, A.15)	Pass
	CTI material group reflected by requirements		N/A
	CTI test performed		N/A
6.7.1.4	Solid insulation		Pass
	Required solid insulation reflecting factors of 6.7.1.1 a) to d)	(see Form A.14, A.15)	Pass

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Clause	Requirement + Test	Result - Remark	Verdict
6.7.1.5	Requirements for insulation according to type of circuit	(see Form A.14, A.15)	Pass
	a) 6.7.2 MAINS circuits of OVERVOLTAGE CATEGORY II up to nominal supply voltage of 300 V		N/A
	b) 6.7.3 secondary circuits separated from circuits defined in a) by transformer		N/A
	c) K.1 MAINS circuits of OVERVOLTAGE CATEGORY III and IV or OVERVOLTAGE CATEGORY II over 300 V	Overvoltage category III	Pass
	d) K.2 secondary circuits separated from circuits defined in c) by transformer		N/A
	e) K.3 circuits having one or more of:		N/A
	1) maximum TRANSIENT OVERVOLTAGE is limited to known level below the level of MAINS CIRCUIT		N/A
	2) maximum TRANSIENT OVERVOLTAGE above the level of MAINS CIRCUIT		N/A
	3) WORKING VOLTAGE is the sum of more than one circuit or a mixed voltage		N/A
	4) WORKING VOLTAGE includes recurring peak voltage, may include non-sinusoidal or non-periodic waveform		N/A
	5) WORKING VOLTAGE with a frequency above 30 kHz		N/A
6.7.2	Insulation for MAINS CIRCUITS of OVERVOLTAGE CATEGORY II with a nominal supply voltage up to 300 V	No such parts	N/A
6.7.2.1	CLEARANCES and CREEPAGE DISTANCES	No such parts	N/A
	Values for MAINS CIRCUITS of table 4 are met		N/A
	Coatings to achieve reduction to POLLUTION DEGREE 1 comply with requirements of Annex H		N/A
6.7.2.2	Solid insulation	No such parts	N/A
6.7.2.2.1	Withstands electrical and mechanical stresses in normal use and all RATED environmental conditions of 1.4		N/A
	Equipment passed voltage tests of 6.8.3 with values of Table 5		N/A
	Complies as applicable:		N/A

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IEC 61010-1 / EN 61010-1			
Clause	Requirement + Test	Result - Remark	Verdict
	a) ENCLOSURE or PROTECTIVE BARRIER of Clause 8		N/A
	b) moulded and potted parts requirements of 6.7.2.2.2		N/A
	c) inner layers of printed wiring boards requirements of 6.7.2.2.3		N/A
	d) thin-film insulation requirements of 6.7.2.2.4		N/A
6.7.2.2.2	Moulded and potted parts	No such parts	N/A
	Conductors between same two layers are separated by at least 0,4 mm after moulding is completed		N/A
6.7.2.2.3	Inner insulating layers of printed wiring boards	No such parts	N/A
	Separated by at least 0,4 mm between same two layers		N/A
	REINFORCED INSULATION have adequate electric strength; one of following methods used:		N/A
	a) thickness of insulation is at least 0,4 mm		N/A
	b) insulation is assembled of minimum two separate layers, each RATED for test voltage of Table 5 for BASIC INSULATION		N/A
	c) insulation is assembled of minimum two separate layers, where the combination is rated for test voltage of Table 5 for REINFORCED INSULATION		N/A
6.7.2.2.4	Thin-film insulation	No such parts	N/A
	Conductors between same two layers are separated by applicable CLEARANCES and CREEPAGE DISTANCE of 6.7.2.1		N/A
	REINFORCED INSULATION have adequate electric strength; one of following methods used:		N/A
	a) thickness through the insulation at least 0,4 mm		N/A
	b) insulation is assembled of min two separate layers, each RATED for test voltage of Table 5 for BASIC INSULATION		N/A
	c) insulation is assembled of min three separate layers, where the combination of two layers passed voltage tests of 6.8.3 with values of Table 5 for REINFORCED INSULATION		N/A
6.7.3	Insulation for secondary circuits derived from MAINS CIRCUITS of OVERVOLTAGE CATEGORY II up to 300 V	No such parts	N/A

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IEC 61010-1 / EN 61010-1			
Clause	Requirement + Test	Result - Remark	Verdict
6.7.3.1	Secondary circuits where separation from MAINS CIRCUITS is achieved by a transformer providing:		—
	- REINFORCED INSULATION		N/A
	- DOUBLE INSULATION		N/A
	- screen connected to the PROTECTIVE CONDUCTOR TERMINAL		N/A
6.7.3.2	CLEARANCES	No such parts	N/A
	a) meet the values of Table 6 for BASIC INSULATION and SUPPLEMENTARY INSULATION; or		N/A
	twice the values of Table 6 for REINFORCED INSULATION		N/A
	or		—
	b) pass the voltage tests of 6.8 with values of Table 6; with following adjustments:		N/A
	1) values for REINFORCED INSULATION are 1,6 times the values for BASIC INSULATION		N/A
	2) if operating altitude is greater than 2000 m values of CLEARANCES multiplied with factor of Table 3		N/A
	3) minimum CLEARANCE is 0,2 mm for POLLUTION DEGREE 2 and 0,8 mm for POLLUTION DEGREE 3		N/A
6.7.3.3	CREEPAGE DISTANCES	No such parts	N/A
	Based on WORKING VOLTAGE meets the values of Table 7 for BASIC and SUPPLEMENTARY INSULATION		N/A
	Values for REINFORCED INSULATION are twice the values of BASIC INSULATION		N/A
	Coatings to achieve reduction to POLLUTION DEGREE 1 comply with requirements of Annex H		N/A
6.7.3.4	Solid insulation	No such parts	N/A
6.7.3.4.1	Withstands electrical and mechanical stresses in normal use and all RATED environmental conditions of 1.4		N/A
	a) Equipment passed voltage test of 6.8.3.1 for 5 s with VALUES of Table 6 for BASIC and SUPPLEMENTARY INSULATION		N/A

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IEC 61010-1 / EN 61010-1			
Clause	Requirement + Test	Result - Remark	Verdict
	values for REINFORCED INSULATION are 1,6 times the values of BASIC INSULATION		N/A
b)	if WORKING VOLTAGE exceeds 300 V, equipment passed voltage test of 6.8.3.1 for 1 min with a test voltage of 1,5 times working voltage for BASIC or SUPPLEMENTARY INSULATION		N/A
	value for REINFORCED INSULATION are twice the WORKING VOLTAGE		N/A
	Complies as applicable:		N/A
	1) ENCLOSURE or PROTECTIVE BARRIER of Clause 8		N/A
	2) moulded and potted parts requirements of 6.7.3.4.2		N/A
	3) inner layers of printed wiring boards requirements of 6.7.3.4.3		N/A
	4) thin-film insulation requirements of 6.7.3.4.4		N/A
6.7.3.4.2	Moulded and potted parts	No such parts	N/A
	Conductors between same two layers are separated by applicable distances of Table 8		N/A
6.7.3.4.3	Inner insulation layers of printed wiring boards	No such parts	N/A
	Separated by at least by applicable distances of Table 8 between same two layers		N/A
	REINFORCED INSULATION have adequate electric strength; one of following methods used:		N/A
	a) thickness at least applicable distance of Table 8		N/A
	b) insulation is assembled of minimum two separate layers, each RATED for test voltage of Table 6 for BASIC INSULATION		N/A
	c) insulation is assembled of min two separate layers, where the combination is RATED for 1,6 times the test voltage of Table 6		N/A
6.7.3.4.4	Thin-film insulation	No such parts	N/A
	Conductors between same two layers are separated by applicable CLEARANCES and CREEPAGE DISTANCE of 6.7.3.2 and 6.7.3.3		N/A
	REINFORCED INSULATION have adequate electric strength; one of following methods used:		N/A

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IEC 61010-1 / EN 61010-1			
Clause	Requirement + Test	Result - Remark	Verdict
	a) thickness at least applicable distance of Table 8		N/A
	b) insulation is assembled of min two separate layers, each RATED for test voltage of Table 6 for BASIC INSULATION		N/A
	c) insulation is assembled of min three separate layers, where the combination of two layers passed voltage tests with 1,6 time values of Table 6:		N/A
	a.c. test of 6.8.3.1; or		N/A
	d.c. test of 6.8.3.2 for circuits stressed only by d.c. voltages		N/A
6.8	Procedure for dielectric strength tests	(see Forms A.14 and A.18)	Pass
6.9	Constructional requirements for protection against electric shock		Pass
6.9.1	If a failure could cause a HAZARD:		Pass
	a) Security of wiring connections		Pass
	b) Screws securing removable covers		Pass
	c) Accidental loosening		Pass
	d) CLEARANCES and CREEPAGE DISTANCES not reduced below the values of basic insulation by loosening of parts or wires		Pass
6.9.2	Insulating materials		Pass
	Material not to be used for safety relevant insulation:		Pass
	a) Easily damaged materials not used		Pass
	b) Non-impregnated hygroscopic materials not used		Pass
6.9.3	Colour coding		Pass
	Green-and-yellow insulation shall not be used except:		Pass
	a) protective earth conductors;		N/A
	b) PROTECTIVE BONDING conductors;		Pass
	c) potential equalization conductors;		N/A
	d) functional earth conductors		N/A
6.10	Connection to MAINS supply source and connections between parts of equipment		N/A

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IEC 61010-1 / EN 61010-1			
Clause	Requirement + Test	Result - Remark	Verdict
6.10.1	MAINS supply cords	No such parts	N/A
	RATED for maximum equipment current (see 5.1.3 c)		N/A
	Cable complies with IEC 60227 or IEC 60245		N/A
	Heat-resistant if likely to contact hot parts		N/A
	Temperature RATING (cord and inlet)		N/A
	Green/yellow used only for connection to PROTECTIVE CONDUCTOR TERMINALS		N/A
	Detachable cords with IEC 60320 MAINS connectors:	No such parts	—
	Conform to IEC 60799; or		N/A
	Have the current RATING of the MAINS connector		N/A
6.10.2	Fitting of non-detachable MAINS supply cords		N/A
6.10.2.1	Cord entry	According to installation, no sharp edge can be occurred.	N/A
	a) Inlet or bushing with a smoothly rounded opening; or		N/A
	b) Insulated cord guard protruding >5 D		N/A
6.10.2.2	Cord anchorage	According to installation, no external cord can be appeared.	N/A
	Protective earth conductor is the last to take the strain		N/A
	a) Cord is not clamped by direct pressure from a screw		N/A
	b) Knots are not used		N/A
	c) Cannot push the cord into the equipment to cause a HAZARD		N/A
	d) No failure of cord insulation in anchorage with metal parts		N/A
	e) Not to be loosened without a tool		N/A
	f) Cord replacement does not cause a HAZARD and method of strain relief is clear		N/A
	Push-pull and or torque test		N/A
6.10.3	Plugs and connectors	No such parts	N/A
	MAINS supply plugs, connectors etc., conform with relevant specifications		N/A

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IEC 61010-1 / EN 61010-1			
Clause	Requirement + Test	Result - Remark	Verdict
	If equipment supplied at voltages below 6.3.2.a) or from a sole source:		—
	Plugs of supply cords do not fit MAINS sockets above rated SUPPLY voltage		N/A
	MAINS type plugs used only for connection to MAINS supply		N/A
	Plug pins which receive a charge from an internal capacitor		N/A
	Accessory MAINS socket outlets:		—
	a) Marking if accepts a standard MAINS supply plug (see 5.1.3e)		N/A
	b) Input has a protective earth conductor if outlet has EARTH TERMINAL CONTACT		N/A
6.11	Disconnection from supply source		Pass
6.11.1	Disconnects all current-carrying conductors		Pass
6.11.2	Exceptions	No such parts	N/A
6.11.3	Requirements according to type of equipment		Pass
6.11.3.1	PERMANENTLY CONNECTED EQUIPMENT and multi-phase equipment		Pass
	Employs switch or circuit-breaker	Applying circuit-breaker	Pass
	If switch or circuit-breaker is not part of the equipment, documentation requires:		—
	a) Switch or circuit-breaker to be included in building installation	No such parts	N/A
	b) Suitable location easily reached		N/A
	c) Marking as disconnecting for the equipment		N/A
6.11.3.2	Single-phase cord-connected equipment	No such parts	N/A
	Equipment is provided with one of the following:		N/A
	a) Switch or circuit-breaker		N/A
	b) Appliance coupler (disconnectable without tool)		N/A
	c) Separable plug (without locking device)		N/A
6.11.4	Disconnecting devices		Pass
6.11.4.1	Disconnecting device part of equipment		Pass

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IEC 61010-1 / EN 61010-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Electrically close to the SUPPLY		Pass
	Power-consuming components not electrically located between the supply source and the disconnecting device		Pass
	Except electromagnetic interference suppression circuits permitted to be located on the supply side of the disconnecting device		N/A
6.11.4.2	Switches and circuit-breakers		Pass
	When used as disconnection device:		—
	Meets IEC 60947-1 and IEC 60947-3	(See Table 1)	Pass
	Marked to indicate function		Pass
	Not incorporated in MAINS cord		Pass
	Does not interrupt PROTECTIVE EARTH CONDUCTOR		Pass
6.11.4.3	Appliance couplers and plugs	No such parts	N/A
	Where an appliance coupler or separable plug is used as the disconnecting device (see 6.11.3.2):		N/A
	Readily identifiable and easily reached by the operator		N/A
	Single-phase portable equipment cord length not more than 3 m		N/A
	PROTECTIVE EARTH CONDUCTOR connected first and disconnected last		N/A
7	PROTECTION AGAINST MECHANICAL HAZARDS		Pass
7.1	Equipment does not cause a mechanical HAZARD in NORMAL nor in SINGLE FAULT CONDITION		Pass
	Conformity is checked by 7.2 to 7.7		Pass
7.2	Sharp edges		Pass
	Easily touched parts are smooth and rounded		Pass
	Do not cause injury during NORMAL USE and		Pass
	Do not cause injury during SINGLE FAULT CONDITION		Pass
7.3	Moving parts		Pass
7.3.1	HAZARDS from moving parts limited to a tolerable level with the conditions specified in 7.3.4 and 7.3.5		Pass

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IEC 61010-1 / EN 61010-1			
Clause	Requirement + Test	Result - Remark	Verdict
	RISK assessment in accordance with 7.3.3 carried out		N/A
7.3.2	Exceptions	No such parts	N/A
	Access to HAZARDOUS moving parts permitted under following circumstances:		N/A
	a) obviously intended to operate on parts or materials external of the equipment		N/A
	inadvertent touching of moving parts minimized by equipment design (e.g. guards or handles)		N/A
	b) If OPERATOR access is unavoidable outside NORMAL USE following precautions have been taken:		N/A
	1) Access requires TOOL		N/A
	2) Statement about training in the instructions		N/A
	3) Warning markings on covers prohibiting access by untrained OPERATORS		N/A
	or symbol 14 with full details in documentation		N/A
7.3.3	RISK assessment for mechanical HAZARDS to body parts	No such parts	N/A
	RISK is reduced to a tolerable level by protective measures as specified in Table 12		N/A
	Minimum protective measures:		—
	A. Low level measures		N/A
	B. Moderate measures		N/A
	C. Stringent measures		N/A
7.3.4	Limitation of force and pressure	(see Form A.20)	Pass
	Following levels are met in NORMAL and SINGLE FAULT CONDITION:		Pass
	Continuous contact pressure below 50 N / cm ² with force below 150 N		N/A
	Temporary force below 250 N for an area at least of 3 cm ² for a maximum duration of 0,75 s		Pass
7.3.5	Gap limitations between moving parts	(see Form A.20)	Pass
7.3.5.1	Access normally allowed		Pass

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IEC 61010-1 / EN 61010-1			
Clause	Requirement + Test	Result - Remark	Verdict
	If levels of 7.3.4 exceeded and body part may be inserted minimum gap as specified in Table 13 assured in NORMAL and in SINGLE FAULT CONDITION		Pass
7.3.5.2	Access normally prevented		Pass
	Maximum gap as specified in Table 14 assured in NORMAL and in SINGLE FAULT CONDITION		Pass
7.4	Stability		Pass
	Equipment not secured to building structure is physical stable		Pass
	Stability maintained after opening of drawers etc. by automatic means, or	No such parts	N/A
	warning marking requires the application of means		Pass
	Compliance checked by following tests as applicable:		—
	a) 10° tilt test for other than handheld equipment		N/A
	b) multi-directional force test for equipment exceeds height of 1 m and mass of 25 kg		Pass
	c) downward force test for floor-standing equipment		Pass
	d) overload test with 4 times maximum load for castor or support that supports greatest load		N/A
	e) castor or support that supports greatest load removed from equipment		N/A
7.5	Provisions for lifting and carrying	Permanent type equipment	N/A
7.5.1	Equipment more than 18 kg :		—
	Has means for lifting or carrying; or		N/A
	Directions in documentation		N/A
7.5.2	Handles and grips	No such parts	N/A
	Handles or grips withstand four times weight		N/A
7.5.3	Lifting devices and supporting parts	No such parts	N/A
	RATED for maximum load; or		N/A
	tested with four times maximum static load		N/A
7.6	Wall mounting	No such parts	N/A
	Mounting brackets withstand four times weight		N/A
7.7	Expelled parts	No such parts	N/A

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IEC 61010-1 / EN 61010-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Equipment contains or limits the energy		N/A
	Protection not removable without the aid of a tool		N/A
8 RESISTANCE TO MECHANICAL STRESSES			Pass
8.1	Equipment does not cause a HAZARD when subjected to mechanical stresses in NORMAL USE		Pass
	Normal protection level is 5 J		Pass
	Levels below 5 J but not less than 1 J are acceptable if all of following criteria are met:	5 J level	N/A
	a) lower level justified by RISK assessment of manufacturer		N/A
	b) equipment installed in its intended application is not easily touched		N/A
	c) only occasional access during NORMAL USE		N/A
	d) IK code in accordance to IEC 62262 marked or symbol 14 used with full information in the documentation		N/A
	For non-metallic ENCLOSURES rated below 2 °C ambient temperature value chosen for minimum RATED temperature		N/A
	Impact energies between IK values, the IK code marked for nearest lower value		N/A
	Conformity is checked by performing following tests:		—
	1) static test of 8.2.1		N/A
	2) impact test of 8.2.2 with 5 J except for HAND-HELD EQUIPMENT		N/A
	if impact energy not selected to 5 J alternate method of IEC 62262 used		N/A
	3) drop test of 8.3.1 or 8.3.2 except for FIXED EQUIPMENT with mass over 100 kg		N/A
	Equipment RATED with an impact rating of IK 08 that obviously meets the criteria		N/A
	After the tests inspection with following results:		—
	- HAZARDOUS LIVE parts above the limits of 6.3.2 not ACCESSIBLE		N/A

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IEC 61010-1 / EN 61010-1			
Clause	Requirement + Test	Result - Remark	Verdict
	- insulation pass the voltage tests of 6.8		N/A
	i) no leaks of corrosive and harmful substances		N/A
	ii) ENCLOSURE shows no cracks resulting in a HAZARD		N/A
	iii) CLEARANCES not less than their permitted values		N/A
	iv) insulation of internal wiring remains undamaged		N/A
	v) PROTECTIVE BARRIERS not damaged or loosened		N/A
	vi) No moving parts exposed, except permitted by 7.3		N/A
	vii) no damage which could cause spread of fire		N/A
8.2	ENCLOSURE rigidity test		N/A
8.2.1	Static test		N/A
	- 30 N with 12 mm rod to each part of ENCLOSURE		N/A
	- in case of doubt test conducted at maximum RATED ambient temperature		N/A
8.2.2	Impact test		N/A
	Impact applied to any part of ENCLOSURE causing a HAZARD if damaged		N/A
	Impact energy level and corresponding IK code.... :		N/A
	Non-metallic ENCLOSURES cooled to minimum RATED ambient temperature if below 2 °C		N/A
8.3	Drop test		N/A
8.3.1	Other than HAND-HELD and DIRECT-PLUG-IN EQUIPMENT		N/A
	Tests conducted with a drop height or angle of :		N/A
8.3.2	HAND-HELD and DIRECT-PLUG-IN EQUIPMENT		N/A
	Non-metallic ENCLOSURES cooled to minimum RATED ambient temperature if below 2 °C		N/A
	Drop test conducted with an height of 1 m		N/A
9	PROTECTION AGAINST THE SPREAD OF FIRE		Pass
9.1	No spread of fire in NORMAL and SINGLE FAULT CONDITION		Pass

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IEC 61010-1 / EN 61010-1			
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	MAINS supplied equipment meets requirements of 9.6 additionally		Pass
	Conformity is checked by minimum one or a combination of the following (see Figure 11):	(see Form A.22)	Pass
	a) SINGLE FAULT test of 4.4; or	(see Forms A.1)	Pass
	b) Application of 9.2 (eliminating or reducing the sources of ignition); or		N/A
	c) Application of 9.3 (containment of fire within the equipment)		N/A
9.2	Eliminating or reducing the sources of ignition within the equipment	No such parts	N/A
	a) 1) Limited-energy circuit (see 9.4); or		N/A
	2) BASIC INSULATION provided for parts of different potential; or		N/A
	Bridging the insulation does not cause ignition		N/A
	b) Surface temperature of liquids and parts (see 9.5)		N/A
	c) No ignition in circuits designed to produce heat		N/A
9.3	Containment of the fire within the equipment, should it occur	No such parts	N/A
9.3.1	Spread of fire outside equipment reduced to a tolerable level if:		N/A
	a) Energizing of the equipment is controlled by an OPERATOR held switch		N/A
	b) ENCLOSURE is conform with constructional requirements of 9.3.1; and		N/A
	Requirements of 9.5 are met		N/A
9.3.2	Constructional requirements	No such parts	N/A
	a) Connectors and insulating material have flammability classification V-2 or better		N/A
	b) Insulated wires and cables are flame retardant (VW-1 or equivalent)		N/A
	c) ENCLOSURE meets following requirements:		N/A
	1) Bottom and sides in arc of 5 ° (see Figure 13) to non-limited circuits (9.4) meets:		N/A

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IEC 61010-1 / EN 61010-1			
Clause	Requirement + Test	Result - Remark	Verdict
	i) no openings; or		N/A
	ii) perforated as specified in Table 16; or		N/A
	iii) metal screen with a mesh; or		N/A
	iv) baffles as specified in Figure 12		N/A
	2) Material of ENCLOSURE and any baffle or flame barrier is made of:		N/A
	Metal (except magnesium); or		N/A
	Non-metallic materials have flammability classification V-1 or better		N/A
	3) ENCLOSURE and any baffle or flame barrier have adequate rigidity		N/A
9.4	Limited-energy circuit	No such parts	N/A
	a) Potential not more than 30 r.m.s. and 42,4 V peak, or 60 V dc		N/A
	b) Current limited by one of following means:		N/A
	1) Inherently or by impedance (see Table 17); or		N/A
	2) Overcurrent protective device (see Table 18); or		N/A
	3) A regulating network limits also in SINGLE FAULT CONDITION (see Table 17)		N/A
	c) Is separated by at least BASIC INSULATION		N/A
	Fuse or a nonadjustable electromechanical device is used		N/A
9.5	Requirements for equipment containing or using flammable liquids	No such parts	N/A
	Flammable liquids contained in or specified for use with equipment do not cause spread of fire		N/A
	RISK is reduced to a tolerable level :		N/A
	a) The temperature of surface or parts in contact with flammable liquids is 25 °C below fire point		N/A
	b) The quantity of liquid is limited		N/A
	c) Flames are contained within the equipment		N/A
	Detailed instructions for RISK-reduction provided		N/A

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IEC 61010-1 / EN 61010-1			
Clause	Requirement + Test	Result - Remark	Verdict
9.6	Overcurrent protection		Pass
9.6.1	MAINS supplied equipment protected		Pass
	BASIC INSULATION between MAINS parts of opposite polarity provided	(see Forms A.14 and A.15)	Pass
	Devices not in the protective conductor		Pass
	Fuses or single-pole circuit-breakers not fitted in neutral (multi-phase)		N/A
9.6.2	PERMANENTLY CONNECTED EQUIPMENT		Pass
	Overcurrent protection device:		Pass
	Fitted within the equipment; or		Pass
	Specified in manufacturer's instructions		N/A
9.6.3	Other equipment	No such parts	N/A
	Protection within the equipment		N/A
10	EQUIPMENT TEMPERATURE LIMITS AND RESISTANCE TO HEAT		Pass
10.1	Surface temperature limits for protection against burns		Pass
	Easily touched surfaces within the limits in NORMAL and in SINGLE FAULT CONDITION:	(see Form A.26A)	Pass
	- at an specified ambient temperature of 40 °C		Pass
	- for equipment rated above 40 °C ambient temperature limits not exceeded raised by the difference to 40 °C		N/A
	Heated surfaces necessary for functional reasons exceeding specified values:		Pass
	Are recognizable as such by appearance or function; or		N/A
	Are marked with symbol 13		Pass
	Guards are not removable without tool		N/A
10.2	Temperatures of windings		Pass
	Limits not exceeded in:	(see Form A.26A)	Pass
	NORMAL CONDITION		Pass
	SINGLE FAULT CONDITION		Pass

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Clause	Requirement + Test	Result - Remark	Verdict
10.3	Other temperature measurements		Pass
	Following measurements conducted if applicable:	(see Form A.26A)	Pass
	a) Value of 60 °C of field-wiring terminal box not exceeded		N/A
	b) Surface of flammable liquids and parts in contact with this liquids		N/A
	c) Surface of non-metallic ENCLOSURES		N/A
	d) Parts made of insulating material supporting parts connected to MAINS supply		Pass
	e) Terminals carrying a current more than 0,5 A		Pass
10.4	Conduct of temperature tests		Pass
10.4.1	Tests conducted under reference test conditions and manufacturer's instructions	(see Form A.26A)	Pass
10.4.2	Temperature measurement of heating equipment		Pass
	Tests conducted in test corner		Pass
10.4.3	Equipment intended for installation in a cabinet or wall	No such parts	N/A
	Equipment built in as specified in installation instructions		N/A
10.5	Resistance to heat		Pass
10.5.1	Integrity of CLEARANCE and CREEPAGE DISTANCES	(see Form A.16)	Pass
10.5.2	Non-metallic ENCLOSURES	No such parts	N/A
	Within 10 min after treatment:		—
	Equipment subjected to suitable stresses of 8.2 and 8.3 complying with criteria of 8.1		N/A
10.5.3	Insulating material		Pass
	a) Parts supporting parts connected to MAINS supply		Pass
	b) TERMINALS carrying a current more than 0,5 A		Pass
	Examination of material data; or		N/A
	in case of doubt:		Pass
	1) Ball pressure test; or	(see Form A.28)	Pass
	2) Vicat softening test of ISO 306		N/A

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Clause	Requirement + Test	Result - Remark	Verdict

11	PROTECTION AGAINST HAZARDS FROM FLUIDS		
11.1	Protection to OPERATORS and surrounding area provided by EQUIPMENT		Pass
	All fluids specified by manufacturer considered		Pass
11.2	Cleaning	(see Form A.30)	Pass
11.3	Spillage	(see Form A.30)	Pass
11.4	Overflow	(see Form A.30)	Pass
11.5	Battery electrolyte		N/A
	Battery electrolyte leakage presents no HAZARD		N/A
11.6	Specially protected equipment		N/A
11.7	Fluid pressure and leakage		Pass
11.7.1	Maximum pressure:	(see Form A.31)	Pass
	Maximum pressure of any part does not exceed P_{RATED}		Pass
11.7.2	Leakage and rupture at high pressure		Pass
	Fluid-containing parts subjected to hydraulic test if:	(see Form A.31)	Pass
	a) product of pressure and volume > 200 kPal; and		Pass
	b) pressure > 50 kPa		Pass
	Parts of refrigerating systems meets pressure-related requirements of IEC 60335-24 or IEC 60335-2-89		N/A
11.7.3	Leakage from low-pressure parts		N/A
11.7.4	Overpressure safety device		Pass
	Does not operate in NORMAL USE		Pass
	a) Connected as close as possible to parts intended to be protected		Pass
	b) Easy access for inspection, maintenance and repair		Pass
	c) Adjustment only with TOOL		Pass
	d) No discharge towards person		Pass
	e) No HAZARD from deposit of discharged material		Pass
	f) Adequate discharge capacity	(see Form A.38)	Pass

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Clause	Requirement + Test	Result - Remark	Verdict
	No shut-off valve between overpressure safety device and protected parts		Pass
12	PROTECTION AGAINST RADIATION, INCLUDING LASER SOURCES, AND AGAINST SONIC AND ULTRASONIC PRESSURE		Pass
12.1	Equipment provides protection		Pass
12.2	Equipment producing ionizing radiation	No such parts	N/A
12.2.1	Ionizing radiation		N/A
12.2.1.1	Equipment meets the following requirements:		N/A
	a) if intended to emit radiation meets requirements of 12.2.1.2; or		N/A
	tested, classified and marked in accordance to IEC 60405		N/A
	b) if only emits stray radiation meets requirements of 12.2.1.3		N/A
12.2.1.2	Equipment intended to emit radiation		N/A
	Effective dose rate of radiation measured..... :		N/A
	If dose rate exceeds 5 $\mu\text{Sv}/\text{h}$ marked with the following:		N/A
	a) Symbol 17 (ISO 361)		N/A
	b) Abbreviations of the radionuclides..... :		N/A
	c) With maximum dose at 1 m; or :		N/A
	with dose rate value between 1 $\mu\text{Sv}/\text{h}$ and 5 $\mu\text{Sv}/\text{h}$ in m		N/A
12.2.1.3	Equipment not intended to emit radiation		N/A
	Limit for unintended stray radiation of 1 $\mu\text{Sv}/\text{h}$ at any easily reached point kept		N/A
12.2.2	Accelerated electrons	No such parts	N/A
	Compartments opened only by the use of a TOOL		N/A
12.3	Ultraviolet (UV) radiation	No such parts	N/A
	No unintentional HAZARDOUS escape of UV radiation:		—
	- checked by inspection; and		N/A
	- evaluation of RISK assessment documentation		N/A

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IEC 61010-1 / EN 61010-1			
Clause	Requirement + Test	Result - Remark	Verdict
12.4	Microwave radiation	No such parts	N/A
	Power density does not exceed 10 W/m ²		N/A
12.5	Sonic and ultrasonic pressure		Pass
12.5.1	Sound level	(see Form A.35)	Pass
	No HAZARDOUS sound emission		Pass
	Maximum sound pressure level measured and calculated for maximum sound power level as specified in ISO 3746 or ISO 9614-1		Pass
	Instruction describes measures for protection		Pass
12.5.2	Ultrasonic pressure	No such parts	N/A
	Equipment not intended to emit ultrasound does not exceed limit of 110 dB between 20 kHz and 100 kHz		N/A
	Equipment intended to emit ultrasound:		N/A
	Outside useful beam does not exceed limit of 110 dB between 20 kHz and 100 kHz		N/A
	If inside useful beam above values exceeded:		N/A
	Marked with Symbol 14 of Table 1		N/A
	and following information in the documentation:		N/A
	a) dimensions of useful beam		N/A
	b) area where ultrasonic pressure exceed 110 dB		N/A
	c) maximum sound pressure inside beam area		N/A
12.6	Laser sources	No such parts	N/A
	Equipment meets requirements of IEC 60825-1		N/A
13	PROTECTION AGAINST LIBERATED GASES AND SUBSTANCES, EXPLOSION AND IMPLOSION		Pass
13.1	Poisonous and injurious gases and substances	No such parts	N/A
	No poisonous or injurious gases or substances liberated in NORMAL CONDITION		N/A
	Attached data/test reports demonstrate conformity		N/A
13.2	Explosion and implosion		Pass
13.2.1	Components		Pass

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IEC 61010-1 / EN 61010-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Components liable to explode:		—
	Pressure release device provided; or		Pass
	Apparatus incorporates operator protection (see also 7.7)		N/A
	Pressure release device:		—
	Discharge without danger		Pass
	Cannot be obstructed		Pass
13.2.2	Batteries and battery charging	No such parts	N/A
	If explosion or fire HAZARD could occur:		—
	Protection incorporated in the equipment; or		N/A
	Instructions specify batteries with built-in protection		N/A
	In case of wrong type of battery used:		—
	No HAZARD; or		N/A
	Warning by marking and within instructions		N/A
	Equipment with means to charge rechargeable batteries:		—
	Warning against the charging of non-rechargeable batteries; and		N/A
	Type of rechargeable battery indicated; or		N/A
	Symbol 14 used		N/A
	Battery compartment design		N/A
	Single component failure		N/A
	Polarity reversal test		N/A
13.2.3	Implosion of cathode ray tubes	No such parts	N/A
	If maximum face dimensions > 160 mm..... :		—
	Intrinsically protected and correctly mounted; or		N/A
	ENCLOSURE provides protection:		N/A
	If non-intrinsically protected:		—
	Screen not removable without TOOL		N/A
	If glass screen, not in contact with surface of tube		N/A

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IEC 61010-1 / EN 61010-1			
Clause	Requirement + Test	Result - Remark	Verdict
14	COMPONENTS AND SUBASSEMBLIES		Pass
14.1	Where safety is involved, components and subassemblies meet relevant requirements	(see Table 1)	Pass
14.2	Motors		Pass
14.2.1	Motor temperatures		Pass
	Does not present a HAZARD when stopped or prevented from starting; or	(see Form A.1 and A.26A)	Pass
	Protected by over-temperature or thermal protection device conform with 14.3		Pass
14.2.2	Series excitation motors		Pass
	Connected direct to device, if overspeeding causes a HAZARD		Pass
14.3	Overtemperature protection devices		Pass
	Devices operating in a SINGLE FAULT CONDITION	(see Form A.38)	Pass
	a) Reliable function is ensured		Pass
	b) RATED to interrupt maximum current and voltage		Pass
	c) Does not operate in NORMAL USE		Pass
	If self-resetting device used to prevent a HAZARD, protected part requires intervention before restarting	(see Form A.38)	Pass
14.4	Fuse holders	No such parts	N/A
	No access to HAZARDOUS LIVE parts		N/A
14.5	MAINS voltage selecting devices	No such parts	N/A
	Accidental change not possible		N/A
14.6	MAINS transformers tested outside equipment	(see Forms A.39 and A.40)	Pass
14.7	Printed circuit boards	No such parts	N/A
	Data shows conformity with V-1 of IEC 60695-11-10 or better; or		N/A
	Test shows conformity with V-1 of IEC 60695-11-10 or better		N/A
	Not applicable for printed wiring boards with limited-energy circuits (9.4)		N/A
14.8	Circuits or components used as TRANSIENT OVERVOLTAGE limiting devices	No such parts	N/A

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IEC 61010-1 / EN 61010-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Test conducted between each pair of MAINS SUPPLY TERMINALS		N/A
	No HAZARD resulting from rupture or overheating of the component:		N/A
	- no bridging of safety relevant insulation		N/A
	- no heat to other parts above the self-ignition points		N/A
15	PROTECTION BY INTERLOCKS		Pass
15.1	Interlocks are designed to remove a HAZARD before OPERATOR exposed		Pass
15.2	Prevention of reactivation		Pass
15.3	Reliability	(See Form A.43)	Pass
	Single fault unlikely to occur; or		Pass
	Cannot cause a HAZARD		Pass
16	HAZARDS RESULTING FROM APPLICATION		Pass
16.1	REASONABLY FORESEEABLE MISUSE		Pass
	No HAZARDS arising from settings not intended and not described in the instructions		Pass
	Other cases of REASONABLY FORESEEABLE MISUSE addressed by RISK assessment		Pass
16.2	Ergonomic aspects		N/A
	Factors giving rise to a HAZARD the RISK assessment is reflecting those aspects:		N/A
	a) limitation of body dimensions		N/A
	b) displays and indicators		N/A
	c) accessibility and conventions of controls		N/A
	d) arrangement of TERMINALS		N/A
17	RISK ASSESSMENT		Pass
	RISK assessment conducted, if HAZARD might arise and not covered by Clauses 6 to 16	See risk management report document No. "001"	Pass

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IEC 61010-1 / EN 61010-1			
Clause	Requirement + Test	Result - Remark	Verdict
	TOLERABLE RISK achieved by iterative documented process covering the following:		Pass
	a) RISK analysis	See risk management report section "Risk analysis"	Pass
	Identifies HAZARDS and estimates RISK	See risk management report section "Hazards, foreseeable sequences of events and hazardous situations"	Pass
	b) RISK evaluation	See risk management report section "Risk Evaluation & Control (FMEA)"	Pass
	Plan to judge acceptability of resulting RISK level based on the estimated severity and likelihood of a RISK	See above	Pass
	c) RISK reduction	See risk management report section "Potential hazard and effects analysis (FMEA)"	Pass
	Initial RISK reduced by counter measures;	See above	Pass
	Repeated RISK evaluation without new RISKS introduced	No such parts	N/A
	RISKS remaining after RISK assessment addressed in instructions to RESPONSIBLE BODY:	See risk management report section "Potential hazard and effects analysis (FMEA)"	Pass
	Information contained how to mitigate these RISKS	No such parts	N/A
	Following principles in methods of RISK reduction applied by manufacturer in given order:		N/A
	1) Risks eliminated or reduced as far as possible		Pass
	2) Protective measures taken for RISKS that cannot be eliminated		Pass
	3) User information about residual RISK due to any defect of the protective measures		Pass
	Indication of particular training is required		Pass
	Specification of the need for personal protective equipment		Pass
	Conformity checked by evaluation of the RISK assessment documentation	See risk management report section "Potential hazard and effects analysis (FMEA)"	Pass

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IEC 61010-1 / EN 61010-1			
Clause	Requirement + Test	Result - Remark	Verdict
ANNEX F	ROUTINE TESTS		Pass
	Manufacturer´s declaration	Refer to document No. R4-150-02	Pass

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IEC 61010-1 / EN 61010-1					
Clause	Requirement — Test		Result — Remark		Verdict
4.4	TABLE: Testing in SINGLE FAULT CONDITION – Results			Form A.1.	Pass
Test subclause	Fault No.	Fault description	Td 4.4.3 (NOTE)	How was test terminated Comments	Meets 4.4.4
4.4.2	1	3-phase motor locked	02h:43m	No breakdown, No hazardous. Unit displayed error message after 3-phasmotor locked. Input: 0.08 A. Max.temp:49.6°C for door cover; Ambient: 26.3°C	Pass
4.4.2	2	Supply phase of motor L1 interrupted	05h:29m	No breakdown, No hazardous. Unit displayed error message after supply phase of motor L1 interrupted. Input: 13.4 A. Max.temp:72.4°C for door cover; Ambient: 26.9°C	Pass
4.4.2	3	Supply phase of motor L2 interrupted	04h:45m	No breakdown, No hazardous. Unit displayed error message after supply phase of motor L2 interrupted. Input: 13.6 A. Max.temp:74.9°C for door cover; Ambient: 27.6°C	Pass
4.4.2	4	Supply phase of motor L3 interrupted	04h:12m	No breakdown, No hazardous. Unit displayed error message after supply phase of motor L3 interrupted. Input: 12.9 A. Max.temp:73.8°C for door cover; Ambient: 27.2°C	Pass
4.4.2	5	Opening blocked	06h:18m	No breakdown, No hazardous. Normal operation after opening blocked. Input: 41.9 A. Max.temp:84.0°C for valve No.2 in enclosure; Ambient: 25.9°C	Pass
4.4.2	6	Fans stopped	06h:08m	No breakdown, No hazardous. Normal operation after opening blocked. Input: 80.4 A. Max.temp:84.0°C for valve No.2 in enclosure; Ambient: 25.5°C	Pass

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IEC 61010-1 / EN 61010-1					
Clause	Requirement — Test		Result — Remark		Verdict
4.4	TABLE: Testing in SINGLE FAULT CONDITION – Results				Form A.1.
Test subclause	Fault No.	Fault description	Td 4.4.3 (NOTE)	How was test terminated Comments	Meets 4.4.4
4.4.2	7	Interlock switch open-circuited	06h:39m	No breakdown, No hazardous. Unit displayed error message after interlock switch open-circuited. Input: 0.08 A. Max.temp:71.2°C for door cover; Ambient: 22.9°C	Pass
4.4.2	8	Temperature protective controller open-circuited	07h:25m	No breakdown, No hazardous. Unit displayed error message after temperature protective controller open-circuited. Input: 0.08 A. Max.temp:72.4°C for door cover; Ambient: 23.3°C	Pass
4.4.2	9	Pressure protective device (TCL4010) open-circuited	06h:14m	No breakdown, No hazardous. Unit displayed error message after pressure protective device (TCL4010) open-circuited. Input: 0.08 A. Max.temp:72.2°C for door cover; Ambient: 23.4°C	Pass
4.4.2	10	Pressure protective device (TCL4013) open-circuited	06h:07m	No breakdown, No hazardous. Unit displayed error message after pressure protective device (TCL4013) open-circuited. Input: 0.08 A. Max.temp:71.9°C for door cover; Ambient: 23.4°C	Pass
4.4.2	11	Protective conductor interrupted	18h:20m	No breakdown, No hazardous. Unit displayed error message after protective conductor interrupted. Input: 40.7 A. Max.temp:73.7°C for door cover; Ambient: 23.8°C	Pass
4.4.2	12	Pressure valve (S10) locked	07h:45m	No breakdown, No hazardous. Normal operation after pressure valve (S10) locked. Input: 41.8 A. Max.temp:73.4°C for door cover; Ambient: 27.0°C	Pass

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IEC 61010-1 / EN 61010-1					
Clause	Requirement — Test		Result — Remark		Verdict
4.4	TABLE: Testing in SINGLE FAULT CONDITION – Results				Form A.1. Pass
Test subclause	Fault No.	Fault description	Td 4.4.3 (NOTE)	How was test terminated Comments	Meets 4.4.4
NOTE Td = Test duration in hh:mm:ss Record dielectric strength test on Form A.19 and temperature tests on Form A.27A and or A.27.B. Record in the comments column for each test whether carried out during or after SINGLE FAULT CONDITION.					
Supplementary information:					

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IEC 61010-1 / EN 61010-1						
Clause	Requirement — Test			Result — Remark		Verdict
5.1.3c)	TABLE: MAINS supply			Form A.2	Pass	
	Marked rating : 230V - 440V				—	
	Phase : Three phases				—	
	Frequency : 50/60 Hz				—	
	Current : — A				—	
	Power : Max. 38 kW				—	
	Power : — VA				—	
Test	Voltage	Frequency	Current	Power in	Power in	Comments
No.	V	Hz	A	W	VA	
1.	207 (L1)	50	69.7	24928.9	--	Universal 134°C mode/230V, 38kW
2.	207 (L2)	50	69.9	24915.7	--	Universal 134°C mode/230V, 38kW
3.	207 (L3)	50	70.1	24792.8	--	Universal 134°C mode/230V, 38kW
4.	207 (L1)	60	69.7	24928.9	--	Universal 134°C mode/230V, 38kW
5.	207 (L2)	60	69.9	24915.7	--	Universal 134°C mode/230V, 38kW
6.	207 (L3)	60	70.1	24792.8	--	Universal 134°C mode/230V, 38kW
7.	230 (L1)	50	78.0	31220.7	--	Universal 134°C mode/230V, 38kW
8.	230 (L2)	50	78.5	31407.3	--	Universal 134°C mode/230V, 38kW
9.	230 (L3)	50	78.3	31042.5	--	Universal 134°C mode/230V, 38kW
10.	230 (L1)	60	78.0	31220.7	--	Universal 134°C mode/230V, 38kW
11.	230 (L2)	60	78.5	31407.3	--	Universal 134°C mode/230V, 38kW
12.	230 (L3)	60	78.3	31042.5	--	Universal 134°C mode/230V, 38kW
13.	440 (L1)	50	41.8	31587.2	--	Universal 134°C mode/440V, 38kW
14.	440 (L2)	50	41.6	31529.7	--	Universal 134°C mode/440V, 38kW
15.	440 (L3)	50	41.8	31456.8	--	Universal 134°C mode/440V, 38kW
16.	440 (L1)	60	41.8	31587.2	--	Universal 134°C mode/440V, 38kW
17.	440 (L2)	60	41.6	31529.7	--	Universal 134°C mode/440V, 38kW
18.	440 (L3)	60	41.8	31456.8	--	Universal 134°C mode/440V, 38kW
19.	484 (L1)	50	44.7	37487.1	--	Universal 134°C mode/440V, 38kW
20.	484 (L2)	50	45.7	38333.7	--	Universal 134°C mode/440V, 38kW

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IEC 61010-1 / EN 61010-1						
Clause	Requirement — Test			Result — Remark		Verdict
5.1.3c)	TABLE: MAINS supply			Form A.2	Pass	
	Marked rating : 230V - 440V				—	
	Phase : Three phases				—	
	Frequency : 50/60 Hz				—	
	Current : — A				—	
	Power : Max. 38 kW				—	
	Power : — VA				—	
Test	Voltage	Frequency	Current	Power in	Power in	Comments
No.	V	Hz	A	W	VA	
21.	484 (L3)	50	45.7	37993.2	--	Universal 134°C mode/440V, 38kW
22.	484 (L1)	60	44.7	37487.1	--	Universal 134°C mode/440V, 38kW
23.	484 (L2)	60	45.7	38333.7	--	Universal 134°C mode/440V, 38kW
24.	484 (L3)	60	45.7	37993.2	--	Universal 134°C mode/440V, 38kW
25.	207 (L1)	50	69.8	24976.7	--	Universal 121°C mode/230V, 38kW
26.	207 (L2)	50	70.0	25024.0	--	Universal 121°C mode/230V, 38kW
27.	207 (L3)	50	70.0	24769.4	--	Universal 121°C mode/230V, 38kW
28.	207 (L1)	60	69.8	24976.7	--	Universal 121°C mode/230V, 38kW
29.	207 (L2)	60	70.0	25024.0	--	Universal 121°C mode/230V, 38kW
30.	207 (L3)	60	70.0	24769.4	--	Universal 121°C mode/230V, 38kW
31.	230 (L1)	50	78.3	31422.3	--	Universal 121°C mode/230V, 38kW
32.	230 (L2)	50	78.9	31635.7	--	Universal 121°C mode/230V, 38kW
33.	230 (L3)	50	78.4	31340.2	--	Universal 121°C mode/230V, 38kW
34.	230 (L1)	60	78.3	31422.3	--	Universal 121°C mode/230V, 38kW
35.	230 (L2)	60	78.9	31635.7	--	Universal 121°C mode/230V, 38kW
36.	230 (L3)	60	78.4	31340.2	--	Universal 121°C mode/230V, 38kW
37.	440 (L1)	50	41.6	31422.3	--	Universal 121°C mode/440V, 38kW
38.	440 (L2)	50	41.8	31659.6	--	Universal 121°C mode/440V, 38kW
39.	440 (L3)	50	41.7	31273.2	--	Universal 121°C mode/440V, 38kW
40.	440 (L1)	60	41.6	31422.3	--	Universal 121°C mode/440V, 38kW

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IEC 61010-1 / EN 61010-1						
Clause	Requirement — Test			Result — Remark		Verdict
5.1.3c)	TABLE: MAINS supply			Form A.2	Pass	
	Marked rating : 230V - 440V				—	
	Phase : Three phases				—	
	Frequency : 50/60 Hz				—	
	Current : — A				—	
	Power : Max. 38 kW				—	
	Power : — VA				—	
Test	Voltage	Frequency	Current	Power in	Power in	Comments
No.	V	Hz	A	W	VA	
41.	440 (L2)	60	41.8	31659.6	--	Universal 121°C mode/440V, 38kW
42.	440 (L3)	60	41.7	31273.2	--	Universal 121°C mode/440V, 38kW
43.	484 (L1)	50	44.8	37586.5	--	Universal 121°C mode/440V, 38kW
44.	484 (L2)	50	45.7	38286.1	--	Universal 121°C mode/440V, 38kW
45.	484 (L3)	50	45.6	37918.0	--	Universal 121°C mode/440V, 38kW
46.	484 (L1)	60	44.8	37586.5	--	Universal 121°C mode/440V, 38kW
47.	484 (L2)	60	45.7	38286.1	--	Universal 121°C mode/440V, 38kW
48.	484 (L3)	60	45.6	37918.0	--	Universal 121°C mode/440V, 38kW
49.	207 (L1)	50	69.5	24857.4	--	Dry mode/230V, 38kW
50.	207 (L2)	50	70.0	25024.0	--	Dry mode/230V, 38kW
51.	207 (L3)	50	70.0	24769.4	--	Dry mode/230V, 38kW
52.	207 (L1)	60	69.5	24857.4	--	Dry mode/230V, 38kW
53.	207 (L2)	60	70.0	25024.0	--	Dry mode/230V, 38kW
54.	207 (L3)	60	70.0	24769.4	--	Dry mode/230V, 38kW
55.	230 (L1)	50	78.4	31516.7	--	Dry mode/230V, 38kW
56.	230 (L2)	50	78.9	31622.0	--	Dry mode/230V, 38kW
57.	230 (L3)	50	78.6	31270.4	--	Dry mode/230V, 38kW
58.	230 (L1)	60	78.4	31516.7	--	Dry mode/230V, 38kW
59.	230 (L2)	60	78.9	31622.0	--	Dry mode/230V, 38kW
60.	230 (L3)	60	78.6	31270.4	--	Dry mode/230V, 38kW

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Clause	Requirement — Test			Result — Remark		Verdict
5.1.3c)	TABLE: MAINS supply			Form A.2	Pass	
	Marked rating : 230V - 440V				—	
	Phase : Three phases				—	
	Frequency : 50/60 Hz				—	
	Current : — A				—	
	Power : Max. 38 kW				—	
	Power : — VA				—	
Test	Voltage	Frequency	Current	Power in	Power in	Comments
No.	V	Hz	A	W	VA	
61.	440 (L1)	50	41.7	31576.7	--	Dry mode/440V, 38kW
62.	440 (L2)	50	41.7	31461.1	--	Dry mode/440V, 38kW
63.	440 (L3)	50	41.5	31425.1	--	Dry mode/440V, 38kW
64.	440 (L1)	60	41.7	31576.7	--	Dry mode/440V, 38kW
65.	440 (L2)	60	41.7	31461.1	--	Dry mode/440V, 38kW
66.	440 (L3)	60	41.5	31425.1	--	Dry mode/440V, 38kW
67.	484 (L1)	50	44.1	36900.0	--	Dry mode/440V, 38kW
68.	484 (L2)	50	45.7	38222.9	--	Dry mode/440V, 38kW
69.	484 (L3)	50	45.6	37926.0	--	Dry mode/440V, 38kW
70.	484 (L1)	60	44.1	36900.0	--	Dry mode/440V, 38kW
71.	484 (L2)	60	45.7	38222.9	--	Dry mode/440V, 38kW
72.	484 (L3)	60	45.6	37926.0	--	Dry mode/440V, 38kW
73.	207 (L1)	50	69.8	24952.6	--	Liquid mode/230V, 38kW
74.	207 (L2)	50	70.1	25169.1	--	Liquid mode/230V, 38kW
75.	207 (L3)	50	70.1	25072.0	--	Liquid mode/230V, 38kW
76.	207 (L1)	60	69.8	24952.6	--	Liquid mode/230V, 38kW
77.	207 (L2)	60	70.1	25169.1	--	Liquid mode/230V, 38kW
78.	207 (L3)	60	70.1	25072.0	--	Liquid mode/230V, 38kW
79.	230 (L1)	50	78.6	31515.3	--	Liquid mode/230V, 38kW
80.	230 (L2)	50	78.9	31649.4	--	Liquid mode/230V, 38kW

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Clause	Requirement — Test			Result — Remark		Verdict
5.1.3c)	TABLE: MAINS supply			Form A.2	Pass	
	Marked rating : 230V - 440V				—	
	Phase : Three phases				—	
	Frequency : 50/60 Hz				—	
	Current : — A				—	
	Power : Max. 38 kW				—	
	Power : — VA				—	
Test	Voltage	Frequency	Current	Power in	Power in	Comments
No.	V	Hz	A	W	VA	
81.	230 (L3)	50	78.6	31256.8	--	Liquid mode/230V, 38kW
82.	230 (L1)	60	78.6	31515.3	--	Liquid mode/230V, 38kW
83.	230 (L2)	60	78.9	31649.4	--	Liquid mode/230V, 38kW
84.	230 (L3)	60	78.6	31256.8	--	Liquid mode/230V, 38kW
85.	440 (L1)	50	41.6	31407.3	--	Liquid mode/440V, 38kW
86.	440 (L2)	50	41.9	31735.3	--	Liquid mode/440V, 38kW
87.	440 (L3)	50	41.5	31231.1	--	Liquid mode/440V, 38kW
88.	440 (L1)	60	41.6	31407.3	--	Liquid mode/440V, 38kW
89.	440 (L2)	60	41.9	31735.3	--	Liquid mode/440V, 38kW
90.	440 (L3)	60	41.5	31231.1	--	Liquid mode/440V, 38kW
91.	484 (L1)	50	45.0	37700.0	--	Liquid mode/440V, 38kW
92.	484 (L2)	50	45.7	38302.0	--	Liquid mode/440V, 38kW
93.	484 (L3)	50	45.5	37824.9	--	Liquid mode/440V, 38kW
94.	484 (L1)	60	45.0	37700.0	--	Liquid mode/440V, 38kW
95.	484 (L2)	60	45.7	38302.0	--	Liquid mode/440V, 38kW
96.	484 (L3)	60	45.5	37824.9	--	Liquid mode/440V, 38kW
97.	207 (L1)	50	69.8	24916.3	--	Manual mode/230V, 38kW
98.	207 (L2)	50	70.0	24975.5	--	Manual mode/230V, 38kW
99.	207 (L3)	50	69.9	24721.9	--	Manual mode/230V, 38kW
100.	207 (L2)	60	69.8	24916.3	--	Manual mode/230V, 38kW

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Clause	Requirement — Test			Result — Remark		Verdict
5.1.3c)	TABLE: MAINS supply			Form A.2	Pass	
	Marked rating : 230V - 440V				—	
	Phase : Three phases				—	
	Frequency : 50/60 Hz				—	
	Current : — A				—	
	Power : Max. 38 kW				—	
	Power : — VA				—	
Test	Voltage	Frequency	Current	Power in	Power in	Comments
No.	V	Hz	A	W	VA	
101.	207 (L3)	60	70.0	24975.5	--	Manual mode/230V, 38kW
102.	230 (L1)	50	69.9	24721.9	--	Manual mode/230V, 38kW
103.	230 (L2)	50	78.6	31597.1	--	Manual mode/230V, 38kW
104.	230 (L3)	50	78.9	31676.8	--	Manual mode/230V, 38kW
105.	230 (L1)	60	69.9	24721.9	--	Manual mode/230V, 38kW
106.	230 (L2)	60	78.6	31597.1	--	Manual mode/230V, 38kW
107.	230 (L3)	60	78.9	31676.8	--	Manual mode/230V, 38kW
108.	440 (L1)	50	41.5	31410.7	--	Manual mode/440V, 38kW
109.	440 (L2)	50	41.9	31735.3	--	Manual mode/440V, 38kW
110.	440 (L3)	50	41.5	31238.2	--	Manual mode/440V, 38kW
111.	440 (L1)	60	41.5	31410.7	--	Manual mode/440V, 38kW
112.	440 (L2)	60	41.9	31735.3	--	Manual mode/440V, 38kW
113.	440 (L3)	60	41.5	31238.2	--	Manual mode/440V, 38kW
114.	484 (L1)	50	44.8	37377.0	--	Manual mode/440V, 38kW
115.	484 (L2)	50	45.7	38222.9	--	Manual mode/440V, 38kW
116.	484 (L3)	50	45.6	37918.0	--	Manual mode/440V, 38kW
117.	484 (L1)	60	44.8	37377.0	--	Manual mode/440V, 38kW
118.	484 (L2)	60	45.7	38222.9	--	Manual mode/440V, 38kW
119.	484 (L3)	60	45.6	37918.0	--	Manual mode/440V, 38kW
NOTE – Measurements are only required for marked ratings.						

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Clause	Requirement — Test			Result — Remark		Verdict
5.1.3c)	TABLE: MAINS supply			Form A.2	Pass	
	Marked rating : 230V - 440V				—	
	Phase : Three phases				—	
	Frequency : 50/60 Hz				—	
	Current : — A				—	
	Power : Max. 38 kW				—	
	Power : — VA				—	
Test	Voltage	Frequency	Current	Power in	Power in	Comments
No.	V	Hz	A	W	VA	

Supplementary information:
There are five modes designed in the equipment and do the input test to determine which mode is the maximum normal load*

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IEC 61010-1 / EN 61010-1			
Clause	Requirement — Test	Result — Remark	Verdict

5.3	TABLE: Durability of markings	Form A.3	Pass
Marking method (see NOTE)			Agent
1) Adhesive label			A Water
2) Ink printed			B Isopropyl alcohol 70%
3) Laser marked			C (specify agent)
4) Filmcoated (plastic foil control panel)			D (specify agent)
5) Imprinted on plastic (moulded in)			E (specify agent)
NOTE – Where applicable include print method, label material, ink or paint type, fixing method, adhesive and surface to which marking is fixed.			

Marking location		Marking method (see above)			
Identification (5.1.2)		1			
MAINS supply (5.1.3)		1			
Fuses (5.1.4)		--			
terminals and operating devices (5.1.5.2)		--			
Switches and circuit breakers (5.1.6)		2			
Double/reinforced equipment (5.1.7)		--			
Field wiring Terminal boxes (5.1.8)		--			
Warning marking (5.2)		1			
Battery charging (13.2.2)		--			
Method	Test agent	Remains legible	Label loose	Curled edges	Comments
		Verdict	Verdict	Verdict	
1	A	Yes	No	No	
1	B	Yes	No	No	
2	A	Yes	No	No	
2	B	Yes	No	No	
Supplementary information:					

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IEC 61010-1 / EN 61010-1			
Clause	Requirement — Test	Result — Remark	Verdict
6.2	TABLE: List of ACCESSIBLE parts		
6.1.2	Exceptions		
6.2	Determination of ACCESSIBLE parts		
Item	Description	Determination method (NOTE 5)	Exception under 6.1.2 (NOTE 4)
1	Top enclosure	R, J, P4 type test finger	--
2	Side enclosure	R, J, P4 type test finger	--
3	Front enclosure	R, J, P4 type test finger	--
4	LCD panel	R, J, P4 type test finger	--
5	Emergency switch	R, J, P4 type test finger	--
NOTE 1 – Test fingers and pins are to be applied without force unless a force is specified (see 6.2.2).			
NOTE 2 – Special consideration should be given to inadequate insulation and high voltage parts (see 6.2).			
NOTE 3 – Parts are considered to be ACCESSIBLE if they could be touched in the absence of any covering which is not considered to provide suitable insulation (see 6.4).			
NOTE 4 – Capacitor test may be required (see Form A.5).			
NOTE 5 – The determination methods are: V = visual; R = rigid test finger; J = jointed test finger; P3 = pin 3 mm diameter; P4 = pin 4 mm diameter.			
Supplementary information:			

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IEC 61010-1 / EN 61010-1												
Clause	Requirement — Test						Result — Remark					Verdict
6 TABLE: Values in NORMAL CONDITION												
6.1.2	Exceptions						11.2 Cleaning and decontamination					
6.3.1	Values in NORMAL CONDITION (see NOTE 1)						11.3 Spillage					
6.6.2	Terminals for external circuit						11.4 Overflow					
6.10.3	Plugs and connections											
Item	Voltage			Current				Capacitance		10 s / 5 s test (NOTE)		
(see Form A.4)	V r.m.s.	V peak	V d.c.	Test circuit A1/A2/A3	mA r.m.s.	mA peak	mA d.c.	μC	mJ	V	μC	mJ
1	0.15	0.38	--	--	--	--	--	--	--	--	--	Voltage level do not exceed 33 Vrms , 46.7 Vpeak or 70 V dc
2	0.17	0.42	--	--	--	--	--	--	--	--	--	See voltage limits as above
3	0.20	0.53	--	--	--	--	--	--	--	--	--	See voltage limits as above
4	0.70	1.35	--	--	--	--	--	--	--	--	--	See voltage limits as above
5	0.32	0.81	--	--	--	--	--	--	--	--	--	See voltage limits as above
NOTE – A 10 s test is specified in 6.1.2 a) b). A. 5 s test is specified in 6.10.3. The capacitance level versus voltage below the limits given from figure 3 of IEC 61010-1.												
Supplementary information:												

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IEC 61010-1 / EN 61010-1											
Clause	Requirement — Test						Result — Remark				Verdict

6.3.2	TABLE: Values in SINGLE FAULT CONDITION											Form A.6	Pass
Item	Subclause and	Voltage			Transient (see NOTE)		Current			Capacitance			
(see Form A.4)	fault No. (see Form A.1)	V r.m.s.	V peak	V d.c.	V	s	Test circuit A1/A2/A3	mA r.m.s.	mA peak	mA d.c.	µF (see NOTE)	Comments	
1	Fault No. 1	0.17	0.44	--	--	--	--	--	--	--	--	See voltage limits as above	
2	Fault No. 1	0.23	0.63	--	--	--	--	--	--	--	--	See voltage limits as above	
3	Fault No. 1	0.39	0.71	--	--	--	--	--	--	--	--	See voltage limits as above	
4	Fault No. 1	0.86	1.60	--	--	--	--	--	--	--	--	See voltage limits as above	
5	Fault No. 1	0.51	0.97	--	--	--	--	--	--	--	--	See voltage limits as above	
1	Fault No. 2	0.15	0.41	--	--	--	--	--	--	--	--	See voltage limits as above	
2	Fault No. 2	0.18	0.61	--	--	--	--	--	--	--	--	See voltage limits as above	
3	Fault No. 2	0.34	0.81	--	--	--	--	--	--	--	--	See voltage limits as above	
4	Fault No. 2	0.77	1.62	--	--	--	--	--	--	--	--	See voltage limits as above	
5	Fault No. 2	0.62	0.92	--	--	--	--	--	--	--	--	See voltage limits as above	
1	Fault No.3	0.49	0.89	--	--	--	--	--	--	--	--	See voltage limits as above	
2	Fault No.3	0.51	0.97	--	--	--	--	--	--	--	--	See voltage limits as above	
3	Fault No.3	0.66	1.03	--	--	--	--	--	--	--	--	See voltage limits as above	

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IEC 61010-1 / EN 61010-1											
Clause	Requirement — Test						Result — Remark				Verdict

6.3.2	TABLE: Values in SINGLE FAULT CONDITION											Form A.6	Pass
Item	Subclause and	Voltage			Transient (see NOTE)		Current			Capacitance			
(see Form A.4)	fault No. (see Form A.1)	V r.m.s.	V peak	V d.c.	V	s	Test circuit A1/A2/A3	mA r.m.s.	mA peak	mA d.c.	µF (see NOTE)	Comments	
4	Fault No.3	1.21	1.89	--	--	--	--	--	--	--	--	See voltage limits as above	
5	Fault No.3	0.81	1.31	--	--	--	--	--	--	--	--	See voltage limits as above	
1	Fault No.4	0.21	0.62	--	--	--	--	--	--	--	--	See voltage limits as above	
2	Fault No.4	0.26	0.81	--	--	--	--	--	--	--	--	See voltage limits as above	
3	Fault No.4	0.46	0.96	--	--	--	--	--	--	--	--	See voltage limits as above	
4	Fault No.4	0.82	1.52	--	--	--	--	--	--	--	--	See voltage limits as above	
5	Fault No.4	0.71	0.83	--	--	--	--	--	--	--	--	See voltage limits as above	
1	Fault No.5	0.14	0.31	--	--	--	--	--	--	--	--	See voltage limits as above	
2	Fault No.5	0.16	0.40	--	--	--	--	--	--	--	--	See voltage limits as above	
3	Fault No.5	0.18	0.51	--	--	--	--	--	--	--	--	See voltage limits as above	
4	Fault No.5	0.66	1.31	--	--	--	--	--	--	--	--	See voltage limits as above	
5	Fault No.5	0.30	0.76	--	--	--	--	--	--	--	--	See voltage limits as above	
1	Fault No.6	0.16	0.33	--	--	--	--	--	--	--	--	See voltage limits as above	

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IEC 61010-1 / EN 61010-1											
Clause	Requirement — Test						Result — Remark				Verdict

6.3.2	TABLE: Values in SINGLE FAULT CONDITION											Form A.6	Pass
Item	Subclause and	Voltage			Transient (see NOTE)		Current			Capacitance			
(see Form A.4)	fault No. (see Form A.1)	V r.m.s.	V peak	V d.c.	V	s	Test circuit A1/A2/A3	mA r.m.s.	mA peak	mA d.c.	µF (see NOTE)	Comments	
2	Fault No.6	0.18	0.44	--	--	--	--	--	--	--	--	See voltage limits as above	
3	Fault No.6	0.74	1.57	--	--	--	--	--	--	--	--	See voltage limits as above	
4	Fault No.6	0.32	1.45	--	--	--	--	--	--	--	--	See voltage limits as above	
5	Fault No.6	0.34	0.84	--	--	--	--	--	--	--	--	See voltage limits as above	
1	Fault No.7	0.15	0.42	--	--	--	--	--	--	--	--	See voltage limits as above	
2	Fault No.7	0.20	0.61	--	--	--	--	--	--	--	--	See voltage limits as above	
3	Fault No.7	0.24	0.73	--	--	--	--	--	--	--	--	See voltage limits as above	
4	Fault No.7	0.89	1.89	--	--	--	--	--	--	--	--	See voltage limits as above	
5	Fault No.7	0.41	0.92	--	--	--	--	--	--	--	--	See voltage limits as above	
1	Fault No.8	0.16	0.43	--	--	--	--	--	--	--	--	See voltage limits as above	
2	Fault No.8	0.18	0.46	--	--	--	--	--	--	--	--	See voltage limits as above	
3	Fault No.8	0.23	0.61	--	--	--	--	--	--	--	--	See voltage limits as above	
4	Fault No.8	0.81	1.44	--	--	--	--	--	--	--	--	See voltage limits as above	

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IEC 61010-1 / EN 61010-1											
Clause	Requirement — Test						Result — Remark				Verdict

6.3.2	TABLE: Values in SINGLE FAULT CONDITION											Form A.6	Pass
Item	Subclause and	Voltage			Transient (see NOTE)		Current			Capacitance			
(see Form A.4)	fault No. (see Form A.1)	V r.m.s.	V peak	V d.c.	V	s	Test circuit A1/A2/A3	mA r.m.s.	mA peak	mA d.c.	µF (see NOTE)	Comments	
5	Fault No.8	0.42	0.91	--	--	--	--	--	--	--	--	See voltage limits as above	
1	Fault No.9	0.31	0.72	--	--	--	--	--	--	--	--	See voltage limits as above	
2	Fault No.9	0.35	0.91	--	--	--	--	--	--	--	--	See voltage limits as above	
3	Fault No.9	0.43	1.06	--	--	--	--	--	--	--	--	See voltage limits as above	
4	Fault No.9	1.21	2.71	--	--	--	--	--	--	--	--	See voltage limits as above	
5	Fault No.9	0.62	1.73	--	--	--	--	--	--	--	--	See voltage limits as above	
1	Fault No.10	11.10	16.12	--	--	--	--	--	--	--	--	See voltage limits as above	
2	Fault No.10	20.40	28.41	--	--	--	--	--	--	--	--	See voltage limits as above	
3	Fault No.10	20.30	28.21	--	--	--	--	--	--	--	--	See voltage limits as above	
4	Fault No.10	2.62	3.72	--	--	--	--	--	--	--	--	See voltage limits as above	
5	Fault No.10	2.24	3.28	--	--	--	--	--	--	--	--	See voltage limits as above	
1	Fault No.11	0.16	0.52	--	--	--	--	--	--	--	--	See voltage limits as above	
2	Fault No.11	0.20	0.83	--	--	--	--	--	--	--	--	See voltage limits as above	

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IEC 61010-1 / EN 61010-1											
Clause	Requirement — Test						Result — Remark				Verdict

6.3.2	TABLE: Values in SINGLE FAULT CONDITION											Form A.6	Pass
Item	Subclause and	Voltage			Transient (see NOTE)		Current			Capacitance			
(see Form A.4)	fault No. (see Form A.1)	V r.m.s.	V peak	V d.c.	V	s	Test circuit A1/A2/A3	mA r.m.s.	mA peak	mA d.c.	µF (see NOTE)	Comments	
3	Fault No.11	0.32	1.44	--	--	--	--	--	--	--	--	See voltage limits as above	
4	Fault No.11	0.88	2.89	--	--	--	--	--	--	--	--	See voltage limits as above	
5	Fault No.11	0.54	1.63	--	--	--	--	--	--	--	--	See voltage limits as above	
1	Fault No.12	0.17	0.51	--	--	--	--	--	--	--	--	See voltage limits as above	
2	Fault No.12	0.23	0.83	--	--	--	--	--	--	--	--	See voltage limits as above	
3	Fault No.12	0.39	1.19	--	--	--	--	--	--	--	--	See voltage limits as above	
4	Fault No.12	0.92	2.43	--	--	--	--	--	--	--	--	See voltage limits as above	
5	Fault No.12	0.44	0.92	--	--	--	--	--	--	--	--	See voltage limits as above	

NOTE – Transient voltages must be below the limits given from Figure 2 and the capacitance below the limits from figure 3 of IEC 61010-1.

Supplementary information:

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IEC 61010-1 / EN 61010-1			
Clause	Requirement — Test	Result — Remark	Verdict

6.5.2.2	TABLE: Cross-sectional area of bonding conductors	Form A.7	Pass
Conductor location		CROSS-SECTIONAL AREA mm ²	VERDICT
Bonding conductor connected to metal enclosure near to heating device		22	Pass
Supplementary information:			

6.5.2.3	TABLE: Tightening torque test	Form A.8	Pass
Conductor location		Size of screw	Tightening torque Nm
Bonding terminal with enclosure		6.0	3.0
Supplementary information:			

6.5.2.4	TABLE: Bonding impedance of plug connected equipment	Form A.9	N/A
----------------	-------------------------------------------------------------	-----------------	-----

6.5.2.5	TABLE: Bonding impedance of permanently connected equipment	Form A.10	Pass
ACCESSIBLE part under test		Test current A	Voltage attained after 1 min (maximum 10 V) V
Bonding wire to metal enclosure		200	3.78
Supplementary information:			

6.5.2.6	TABLE: Transformer PROTECIVE BONDING screen	Form A.11	Pass	
ACCESSIBLE part under test		Test current (see NOTE) A	Voltage attained after 1 min (maximum 10 V) V	Calculated resistance (maximum 0,1 Ω) Ω
Bonding wire to metal enclosure		200	3.78	0.0189
NOTE – Test current must be twice the value of the over current protection means of the winding. Test is specified in 6.5.2.6 a) or b).				
Supplementary information:				

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IEC 61010-1 / EN 61010-1			
Clause	Requirement — Test	Result — Remark	Verdict
6.5.4	TABLE: protective impedance	Form A.12	N/A
6.5.6	TABLE: Current- or voltage-limiting device	Form A.13	N/A

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IEC 61010-1 / EN 61010-1						
Clause	Requirement — Test	Result — Remark	Verdict			
6.7	TABLE: Insulation requirements- Block diagram of system	Form A.14	Pass			
Metal Enclosure						
<p>The diagram illustrates a power distribution system within a metal enclosure. It includes three incoming lines (L1, L2, L3) and a protective earth (PE). A circuit breaker is connected to L1 and L2. A power switch is connected in series with L2. A heater is connected between L1 and L3. A three-phase motor is connected between L1, L2, and L3. A mains transformer is connected between L1 and L3. An open frame power supply is connected to the secondary side of the transformer. An LCD control panel and SIP/SOP are connected to the power supply. Insulation levels are indicated by double-headed arrows labeled B1 through B5. B1 is between the PE terminal and the metal enclosure. B2 is between the metal enclosure and the heater. B3 is between the metal enclosure and the three-phase motor. B4 is between the metal enclosure and the primary winding of the mains transformer. B5 is between the metal enclosure and the secondary winding of the open frame power supply.</p>						
Pollution degree.....: 2		Overvoltage category.....: III				
Area	Location	Insulation type	WORKING VOLTAGE		Test voltage	Comments (NOTE 3)
		(NOTE 1)	RMS V	Peak V	Frequen cy kHz	(NOTE 2) V
A	Connecting terminal of L1 to L2 on circuit breaker	BI	440	623	--	1680/ 2476*
B1	Internal circuit of power switch to accessible metal enclosure	BI	440	623	--	1680/ 2476*
B2	Connecting terminal of heater to metal enclosure	BI	440	623	--	1680/ 2476*
B3	Connecting terminal of 3 phase motor to metal enclosure	BI	440	623	--	1680/ 2476*
B4	Winding to core of mains transformer	BI	440	623	--	1680/ 2476*
B5	Mounting screw of open frame power supply to metal enclosure	BI	440	623	--	1680/ 2476*
C	Component Relay (Y17) of PLC to side enclosure of temperature	DI	440	623	--	3480/ 4072*

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IEC 61010-1 / EN 61010-1			
Clause	Requirement — Test	Result — Remark	Verdict
6.7	TABLE: Insulation requirements- Block diagram of system	Form A.14	Pass
protective controller			
NOTE 1 – Type of insulation: BI = BASIC INSULATION DI = DOUBLE INSULATION PI = PROTECTIVE IMPEDANCE RI = Reinforced INSULATION SI = Supplementary INSULATION see also Form A.15 for further details			
NOTE 2 - Types of voltage Peak impulse test voltage (pulse) r.m.s. d.c. peak			
NOTE 3 - OVERVOLTAGE CATEGORIES or POLLUTION DEGREES which differ should be shown under "Comments"			
Supplementary Information: *Refer to annex K.1.3.1			
Area	Insulation between:		
A	Parts of opposite polarity of the mains part		
B	LIVE and accessible parts that are protectively earthed		
C	Primary and secondary parts		

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IEC 61010-1 / EN 61010-1											
Clause	Requirement — Test				Result — Remark					Verdict	
6.7	TABLE: Insulation requirements- Clearances and Creepages										
6.2.2	Examination				6.5.4	Protective impedance					
6.4.2	ENCLOSURES and protective barriers				6.5.6	Current- or voltage-limiting device					
6.4.4	Impedance										
Area	Location	Insulation type	WORKING VOLTAGE (NOTE 2)			Clearance	Creepage		CTI	Verdict	Comments
	(See Form A.14)	(NOTE 1)	RMS V	Peak V	Frequency kHz	Required mm	Measured mm	Required mm	Measured mm		
A	Connecting terminal of L1 to L2 on circuit breaker	BI	440	623	--	3.0	21.0	3.0	24.1	≥100	Pass
B1	Internal circuit of power switch to accessible metal enclosure	BI	440	623	--	3.0	19.8	3.0	19.8	≥100	Pass
B2	Connecting terminal of heater to metal enclosure	BI	440	623	--	3.0	47.6	3.0	47.6	≥100	Pass
B3	Connecting terminal of 3 phase motor to metal enclosure	BI	440	623	--	3.0	7.1	3.0	7.6	≥100	Pass
B4	Winding to core of mains transformer	BI	440	623	--	3.0	9.7	3.0	12.4	≥100	Pass

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IEC 61010-1 / EN 61010-1												
Clause	Requirement — Test				Result — Remark					Verdict		
6.7 TABLE: Insulation requirements- Clearances and Creepages												
6.2.2	Examination				6.5.4	Protective impedance						
6.4.2	ENCLOSURES and protective barriers				6.5.6	Current- or voltage-limiting device						
6.4.4	Impedance											
Area	Location		Insulation type	WORKING VOLTAGE (NOTE 2)			Clearance		Creepage	CTI		
	(See Form A.14)		(NOTE 1)	RMS V	Peak V	Frequency kHz	Required mm	Measured mm	Required mm	Measured mm		
B5	Mounting screw of open frame power supply to metal enclosure		BI	440	623	--	3.0	5.9	3.0	5.9		
C	Component Relay (Y17) of PLC to side enclosure of temperature protective controller		DI	440	623	--	6.0	6.1	6.0	6.1		
NOTE 1 – refer to Form A.14 for type of insulation shown in the insulation diagram												
NOTE 2 - to be used for definition of required insulation (see Form A.14)												
Input supply voltage.....: 230-440 V3~ 50/60 Hz												
Supplementary information:												

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IEC 61010-1 / EN 61010-1												
Clause	Requirement — Test					Result — Remark					Verdict	
6.7	TABLE: Insulation requirements- Clearances and Creepages											
8	Mechanical resistance to shock and impact					10.5.1	Integrity of CLEARANCES and CREEPAGE distances					
9.6.1	Overcurrent protection basic insulation between MAINS parts											
Area	Location	Insulation type	Mechanical tests (NOTE)				Test at max.	Measured after test (if required)	Verdict	Comments		
	(See Form A.14)		Applied force	Rigidity (8.2)		Drop (8.3)	RATED ambient	CREEPAGE DISTANCE				
			N	Static (8.2.1)	Impact (8.2.2)	Normal (8.3.1)	Hand-held/Plug-in	(10.5.1)	mm	mm		
A	Connecting terminal of L1 to L2 on circuit breaker	BI	--	--	--	--	--	40	24.1	21.0	Pass	Clearance and creepage distance was not affected after tests
B1	Internal circuit of power switch to accessible metal enclosure	BI	--	--	--	--	--	40	19.8	19.8	Pass	See above
B2	Connecting terminal of heater to metal enclosure	BI	--	--	--	--	--	40	47.6	47.6	Pass	See above
B3	Connecting terminal of 3 phase motor to metal enclosure	BI	--	--	--	--	--	40	7.6	7.1	Pass	See above
B4	Winding to core of mains transformer	BI	--	--	--	--	--	40	12.4	9.7	Pass	See above

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IEC 61010-1 / EN 61010-1											
Clause	Requirement — Test				Result — Remark						Verdict
6.7	TABLE: Insulation requirements- Clearances and Creepages										
8	Mechanical resistance to shock and impact				10.5.1	Integrity of CLEARANCES and CREEPAGE distances					
9.6.1	Overcurrent protection basic insulation between MAINS parts										
Area	Location	Insulation type	Mechanical tests (NOTE)				Test at max.	Measured after test (if required)	Verdict	Comments	
	(See Form A.14)		Applied force	Rigidity (8.2)		Drop (8.3)	RATED ambient	CREEPAGE DISTANCE			
			N	Static (8.2.1)	Impact (8.2.2)	Normal (8.3.1)	Hand-held/Plug-in	(10.5.1)	mm	mm	
B5	Mounting screw of open frame power supply to metal enclosure	BI	--	--	--	--	--	40	5.9	5.9	Pass
C	Component Relay (Y17) of PLC to side enclosure of temperature protective controller	DI	--	--	--	--	--	40	6.1	6.1	Pass
NOTE – Refer to Form A.19 for dielectric strength tests following the above tests.											
Supplementary information:											

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IEC 61010-1 / EN 61010-1			
Clause	Requirement – Test	Result — Remark	Verdict

6.7.2.2.2	TABLE: Reliability of potted components	Form A.17	N/A
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6.8	TABLE: Dielectric strength tests					Form A.18	Pass
4.4.4.1 b)	Conformity after application of SINGLE FAULT CONDITIONS ¹						Pass
6.4	Primary means of protection ²						Pass
6.6	Connections to external circuits						N/A
6.7.	Insulation requirements ² (see Annex K)						Pass
6.10.2	Fitting of non-detachable MAINS supply cords ¹						N/A
9.2 a) 2)	Eliminating or reducing the sources of ignition within the equipment						N/A
9.4 c)	Limited-energy circuit						N/A
9.6.1	Overcurrent protection basic insulation between MAINS - parts						Pass
	Test site altitude..... :				500 m		—
	Test voltage correction factor (see Table 10) :				1.12		—
Location or references from Forms A.1 and A.14		Clause or sub-clause	Humidity Yes/No	Working voltage V	Test voltage r.m.s.	Comments (NOTE)	Verdict
A		4.4.4.1b)/ 6.4/ 6.7/ 9.6.1	Yes	440	1680/ 2476	1680Vr.m.s. for 60 seconds; 2476Vr.m.s. for 5 seconds	Pass
B		4.4.4.1b)/ 6.4/ 6.7	Yes	440	1680/ 2476	1680Vr.m.s. for 60 seconds; 2476Vr.m.s. for 5 seconds	Pass
C		4.4.4.1b)/ 6.4/ 6.7	Yes	440	3480/ 4072	3480Vr.m.s. for 60 seconds; 4072Vr.m.s. for 5 seconds	Pass

¹ Record the fault, test or treatment applied before the dielectric strength test. ² Humidity preconditioning required.

NOTE: Test duration may be recorded.

Supplementary information:

*Refer to annex K.1.3.1

6.10.2	TABLE: Cord anchorage	Form A.19	N/A
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IEC 61010-1 / EN 61010-1																								
Clause	Requirement — Test		Result — Remark																					
7.	TABLE: Protection against mechanical HAZARDS																							
7.3.4	Limitation of force and pressure																							
7.3.5	Gap limitations between moving parts																							
	Clause 7.3.4		Clause 7.3.5.1							Clause 7.3.5.2														
	Continuous	Temporary	Minimum gaps (mm)							Maximum gaps (mm)														
Part / Location	Contact pressure max. 50 N /cm ² @ max. 150 N	max. 250 N / 3 cm ² @ max. 0,75 s	Torso 500	Head 300	Leg 180	Foot 120	Toes 50	Arm 120	Hand 100	Finger 25	Head 120	Foot 35	Finger 4	Verdict	Comments									
Top enclosure	--	Yes	--	--	--	--	--	--	--	--	--	--	1.0	Pass										
Side enclosure	--	Yes	--	--	--	--	--	--	--	--	--	--	1.0	Pass										
Front enclosure	--	Yes	--	--	--	--	--	--	--	--	--	--	1.0	Pass										
Supplementary information:																								

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IEC 61010-1 / EN 61010-1			
Clause	Requirement – Test	Result - Remark	Verdict
8.2	ENCLOSURE rigidity test	Form A.21	N/A

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IEC 61010-1				
Clause	Requirement — Test	Result — Remark		Verdict
9	TABLE: Protection against the spread of fire			
Item	Source of HAZARD or area of the equipment considered (circuit, component, liquid etc.)	Protection Method (9a, 9b or 9c)	Protection details	Verdict
1	Electric component	9a	Test as clause 4.4 performed	Pass
Supplementary information:				

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IEC 61010-1			
Clause	Requirement — Test	Result — Remark	Verdict
9.3.2	TABLE: Constructional requirements	Form A.23	N/A

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IEC 61010-1			
Clause	Requirement — Test	Result — Remark	Verdict
9.4	TABLE: Limited-energy circuit		Form A.24 Pass
9.5	TABLE: Requirements for equipment containing or using flammable liquids		Form A.25 N/A

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IEC 61010-1					
Clause	Requirement — Test		Result — Remark		Verdict
10.	TABLE : Temperature Measurements			Form A.26A	Pass
10.1	Surface temperature limits - NORMAL CONDITION and / or SINGLE FAULT CONDITION				Pass
10.2	Temperature of windings- NORMAL CONDITION and / or SINGLE FAULT CONDITION				Pass
10.3	Other temperature measurements				Pass
Operating conditions:	Maximum normal load* condition applied Universal 134°C mode and refers to power input test Form A.2.				
Frequency: ..	-- Hz	Test room ambient temperature (ta):		25.2 °C	
Voltage: ..	207 V 3~	Test duration		5 h 56 min	
Part / Location		t_m °C	t_c °C	t_{max} °C	Verdict
Valve no.1 in enclosure		66.1	81.6	105	Pass
Valve no.2 in enclosure		73.2	88.7	105	Pass
Valve no.3 in enclosure		36.9	52.4	105	Pass
Valve no.4 in enclosure		26.9	42.4	105	Pass
Valve no.5 in enclosure		56.0	71.5	105	Pass
Pressure protective device (TCL4010)		33.8	49.3	70	Pass
Pressure protective device (TCL4013)		35.4	50.9	70	Pass
Circuit breaker no.1 near to pressure vessel		41.7	57.2	70	Pass
Circuit breaker no. 2 near to pressure vessel		35.6	51.1	70	Pass
Internal wire near to circuit breaker		36.5	52.0	105	Pass
3-phase motor body		46.9	62.4	105	Pass
Accessible part of side enclosure		23.7	39.2	65	Pass
Accessible part of emergency switch		29.9	45.4	70	Pass
Accessible par of key switch		33.2	48.7	55	Pass
LCD panel		31.7	47.2	70	Pass
Pressure gauge no.1		24.3	39.8	65	Pass
Pressure gauge no.2		31.3	46.8	65	Pass
Accessible part of printer		27.6	43.1	70	Pass
Limits is not exceeded					

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IEC 61010-1				
Clause	Requirement — Test	Result — Remark		Verdict
10.	TABLE : Temperature Measurements	Form A.26A		Pass
10.1	Surface temperature limits - NORMAL CONDITION and / or SINGLE FAULT CONDITION			Pass
10.2	Temperature of windings- NORMAL CONDITION and / or SINGLE FAULT CONDITION			Pass
10.3	Other temperature measurements			Pass
Operating conditions:	Maximum normal load* condition applied Universal 134°C mode and refers to power input test Form A.2.			
Frequency	-- Hz	Test room ambient temperature (ta)		25.2 °C
Voltage	207 V 3~	Test duration		5 h 56 min
Part / Location		t_m °C	t_c °C	t_{max} °C
Interlock switch body		50.0	65.5	80
Handle part of door		69.3	84.4	85
Door cover		71.9	87.4	105
Circuit breaker in control panel		33.9	49.4	70
PLC body		29.4	44.9	55
Temperature protective controller (DTC1000R)		31.6	47.1	50
Core of linear transformer		29.8	45.3	105
Coil of linear transformer		30.3	45.8	105
The point of small circuit breaker and relay		33.6	49.1	105
Temperature protective controller (STC-400)		38.6	54.1	65
Coil of transformer in switching power module		37.7	53.2	105
Accessible part of front enclosure		42.3	57.8	65
Ambient		24.5	40.0	--
NOTE 1 - t_m = measured temperature t_c = t_m corrected ($t_m - t_a + 40$ °C or max. RATED ambient) t_{max} = maximum permitted temperature				
NOTE 2 - see also 14.1 with reference to component operating conditions				
NOTE 3 - Record values for NORMAL CONDITION and / or SINGLE FAULT CONDITION in this Form use additional form if necessary				
NOTE 4 - see Form A.26B for details of winding temperature measurements				
Supplementary information:				

10.	TABLE : Temperature Measurements	Form A.26A	Pass
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10.1	Surface temperature limits - NORMAL CONDITION and / or SINGLE FAULT CONDITION				Pass
10.2	Temperature of windings- NORMAL CONDITION and / or SINGLE FAULT CONDITION				Pass
10.3	Other temperature measurements				Pass
Operating conditions:	Maximum normal load* condition applied Universal 134°C mode and refers to power input test Form A.2.				
Frequency	-- Hz	Test room ambient temperature (ta) ...:			26.8 °C
Voltage	484 V 3~	Test duration			3 h 50 min
Part / Location	t_m °C	t_c °C	t_{max} °C	Verdict	Comments
Valve no.1 in enclosure	61.6	71.8	105	Pass	Limits is not exceeded
Valve no.2 in enclosure	73.1	83.3	105	Pass	Limits is not exceeded
Valve no.3 in enclosure	38.2	48.4	105	Pass	Limits is not exceeded
Valve no.4 in enclosure	30.8	41.0	105	Pass	Limits is not exceeded
Valve no.5 in enclosure	60.7	70.9	105	Pass	Limits is not exceeded
Pressure protective device (TCL4010)	36.3	46.5	70	Pass	Limits is not exceeded
Pressure protective device (TCL4013)	37.5	47.7	70	Pass	Limits is not exceeded
Circuit breaker no.1 near to pressure vessel	44.5	54.7	70	Pass	Limits is not exceeded
Circuit breaker no. 2 near to pressure vessel	34.7	44.9	70	Pass	Limits is not exceeded
Internal wire near to circuit breaker	34.7	44.9	105	Pass	Limits is not exceeded
3-phase motor body	42.3	52.5	105	Pass	Limits is not exceeded
Accessible part of side enclosure	31.0	41.2	65	Pass	Limits is not exceeded
Accessible part of emergency switch	33.1	43.3	70	Pass	Limits is not exceeded
Accessible par of key switch	35.8	46.0	55	Pass	Limits is not exceeded
LCD panel	35.6	45.8	70	Pass	Limits is not exceeded
Pressure gauge no.1	39.6	49.8	65	Pass	Limits is not exceeded
Pressure gauge no.2	38.6	48.8	65	Pass	Limits is not exceeded
Accessible part of printer	35.3	45.5	70	Pass	Limits is not exceeded
Interlock switch body	51.8	62.0	80	Pass	Limits is not exceeded
Handle part of door	66.0	76.2	85	Pass	Limits is not exceeded
Door cover	74.4	84.6	105	Pass	Limits is not exceeded
Circuit breaker in control panel	38.2	48.4	70	Pass	Limits is not exceeded

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10.	TABLE : Temperature Measurements				Form A.26A	Pass		
10.1	Surface temperature limits - NORMAL CONDITION and / or SINGLE FAULT CONDITION					Pass		
10.2	Temperature of windings- NORMAL CONDITION and / or SINGLE FAULT CONDITION					Pass		
10.3	Other temperature measurements					Pass		
Operating conditions:	Maximum normal load* condition applied Universal 134°C mode and refers to power input test Form A.2.							
Frequency	-- Hz	Test room ambient temperature (ta) ...:			26.8 °C			
Voltage	484 V 3~	Test duration			3 h 50 min			
Part / Location	t_m °C	t_c °C	t_{max} °C	Verdict	Comments			
PLC body	36.9	47.1	55	Pass	Limits is not exceeded			
Temperature protective controller (DTC1000R)	38.5	48.7	50	Pass	Limits is not exceeded			
Core of linear transformer	41.7	51.9	105	Pass	Limits is not exceeded			
Coil of linear transformer	41.3	51.5	105	Pass	Limits is not exceeded			
The point of small circuit breaker and relay	39.8	50.0	105	Pass	Limits is not exceeded			
Temperature protective controller (STC-400)	47.8	58.0	65	Pass	Limits is not exceeded			
Coil of transformer in switching power module	43.9	54.1	105	Pass	Limits is not exceeded			
Accessible part of front enclosure	45.3	55.5	65	Pass	Limits is not exceeded			
Ambient	29.8	40.0	--	--	--			
NOTE 1 - t_m = measured temperature t_c = t_m corrected ($t_m - t_a + 40$ °C or max. RATED ambient) t_{max} = maximum permitted temperature								
NOTE 2 - see also 14.1 with reference to component operating conditions								
NOTE 3 - Record values for NORMAL CONDITION and / or SINGLE FAULT CONDITION in this Form use additional form if necessary								
NOTE 4 - see Form A.26B for details of winding temperature measurements								
Supplementary information:								

10.2	TABLE: Temperature of windings Resistance method Temperature Measurements	Form A.26B	N/A
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10.5.2	TABLE: Resistance to heat of non-metallic ENCLOSURES	Form A.27	N/A
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IEC 61010-1			
Clause	Requirement — Test	Result — Remark	Verdict
10.5.3	TABLE: Insulating Materials	Form A.28	Pass
10.5.3 1)	Ball .pressure test		Pass
	Max. allowed impression diameter : 2 mm		—
	Part	Test temperature °C	Impression Diameter (mm)
Primary connector of open frame power supply (Molex, 3069-GN3)		125	1.64
Bobbin of transformer (E I Dupont Nemours & Co., Inc., 101L(r9)(f1))		125	1.91
Supplementary information:			

10.5.3 2)	Vicat softening test (ISO 306)	Form A.29	N/A
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IEC 61010-1																
Clause	Requirement — Test					Result — Remark					Verdict					
8	TABLE: Mechanical resistance to shock and impact															
11	Protection against HAZARDS from fluids															
Voltage tests can be carried out once after performing the tests of clause 8 and clause 11. However, if voltage tests are carried out separately after each set of tests, two forms can be used.																
		Clause 8 tests			Clause 11 tests											
Location (see form A.14)		Static (8.2.1) 30 N	Impact (8.2.2)	Normal (8.3.1)	Handheld Plug-in	Cleaning (11.2)	Spillage (11.3)	Overflow (11.4)	IEC 60529 (11.6)	Working voltage Vr.m.s.	Test voltage Vr.m.s.					
A		--	--	--	--	Yes	Yes	Yes	--	440	1680/ 2476*					
B		--	--	--	--	Yes	Yes	Yes	--	440	1680/ 2476*					
C		--	--	--	--	Yes	Yes	Yes	--	440	1680/ 2476*					
NOTE – Use r.m.s., d.c. or peak to indicate the used test voltage.																
Supplementary information:																
*Refer to annex K.1.3.1																

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IEC 61010-1			
Clause	Requirement — Test	Result — Remark	Verdict

11.7.2	TABLE: Leakage and rupture at high pressure						Form A.31	Pass
Part	Maximum permissible working pressure Mpa	Test pressure MPa	Leakage Yes / No	Deformation Yes / No	Burst Yes / No	Comments		
*Pressure vessel	0.256	0.384	No	No	No			
*Pressure vessel	0.256	0.512	No	No	No			

NOTE – see also Annex G with requirements for USA and Canada.

Supplementary information:

* NOTE - Pressure vessel part:test on mobel:SAT-450

11.7.3	Leakage from low-pressure parts	Form A.32	N/A
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12.2.1	TABLE: Ionizing radiation	Form A.33	N/A
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12.5.1	TABLE: Sound level	Form A.35	Pass
Locations tested	Measured maximum sound pressure level dBA	Calculated maximum sound power level	
At operator's normal position and at bystanders' positions			
a) Front side of EUT in 1 m	72.6	7.26	
b) Left side of EUT in 1 m	75.0	7.50	
c) Right side of EUT in 1 m	73.8	7.38	

Supplementary information:

Background sound pressure level: 62.3 dB

12.5.2	Ultrasonic pressure	Form A.36	N/A
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13.2.2	TABLE: Batteries	Form A.37.	N/A
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IEC 61010-1			
Clause	Requirement — Test	Result — Remark	Verdict
14.3	TABLE: Overtemperature protection devices		Form A.38 Pass
Reliability test			
Component	Type (NOTE)	Verdict	Comments
Temperature protective controller (Delta Electronics Inc., DTC1000R)	SR	Pass	The component can operate normally after operating 200 times.
Temperature protective controller (Ston Electronic Co., Ltd., STC-400)	SR	Pass	The component can operate normally after operating 200 times.
NOTE: NSR = non-self-resetting(10 times) NR = non-resetting (1 time) SR = self-resetting (200 times)			
Supplementary information:			

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IEC 61010-1				
Clause	Requirement — Test	Result — Remark	Verdict	
4.4.2.7	TABLE: MAINS transformer		Form A.39	Pass
4.4.2.7.2	Short circuit		Pass	
14.6	MAINS transformers tested outside equipment		Pass	
Type..... : H321A08		—	
Manufacturer : Chin I Electrical Co., Ltd.		—	
Test in equipment			—	
Test on bench			Pass	
Test repeated inside equipment (see 14.6)			—	
Optional – Insulation class (IEC 60085) of the lowest rated winding	: 105		—	
Winding identification	105	—	—	—
Type of Protector for winding (NOTE 1)	OP	—	—	—
Elapsed time	1h40min	—	—	—
Current, A primary secondary	0.529	—	—	—
	1.0	—	—	—
Winding temperature, °C primary (see NOTE 2) secondary	51.9	—	—	—
	—	—	—	—
Tissue paper / cheesecloth OK ? (Pass / Fail)	Pass	—	—	—
Voltage tests (see NOTE 3)	—	—	—	—
Primary to secondary	_____			
Primary to core	1680/ 2476* Vr.m.s.	Pass	--	
Secondary to secondary	_____ - —	—	--	
Secondary to core	_____ - —	—	--	
Verdict	Pass	—	—	—
NOTE 1:	Primary fuse	- PF / (—)	A	
	Secondary fuse	- SF / (—)	A	
	Overtemperature protection	- OP / (117)	°C	
	Impedance protection	- Z		
NOTE 2:	Indicate method of measurement	TC = with thermocouple		
		R = resistance method		
NOTE 3:	If resistance method is used, record resistance in cold and warm condition in Form A.26B!			
	Record the voltage applied and the type of voltage (r.m.s. / d.c. / peak) and for results use NB = no breakdown or B = breakdown			
Supplementary information: *Refer to annex K.1.3.1				

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IEC 61010-1						
Clause	Requirement — Test	Result — Remark	Verdict			
4.4.2.7	TABLE: MAINS transformer		Form A.40	Pass		
4.4.2.7.3	Overload tests (for MAINS transformers)			Pass		
14.6	MAINS transformers tested outside equipment			Pass		
Type	H321A08			—		
Manufacturer	Chin I Electrical Co., Ltd.			—		
Test in equipment						
Test on bench						
Test repeated inside equipment (see 14.6)						
Optional – Insulation class (IEC 60085) of the lowest rated winding			105	—		
Winding identification		105	—	—		
Type of Protector for winding (NOTE 1)		OP	—	—		
Elapsed time		1h47min	—	—		
Current, A primary secondary		0.529	—	—		
		1.0	—	—		
Winding temperature, °C primary (see NOTE 2) secondary		92.9	—	—		
		—	—	—		
Tissue paper / cheesecloth OK ? (Pass / Fail)		Pass	—	—		
Voltage tests (see NOTE 3)		—	—	—		
Primary to secondary	_____ V					
Primary to core	1680/ 2476* Vr.m.s.	Pass	—	—		
Secondary to secondary	_____ V	—	—	—		
Secondary to core	_____ V	—	—	—		
Verdict		Pass	—	—		
NOTE 1: Primary fuse - PF / (—) A Secondary fuse - SF / (—) A Overtemperature protection - OP / (117) °C Impedance protection - Z NOTE 2: Indicate method of measurement TC = with thermocouple R = resistance method If resistance method is used, record resistance in cold and warm condition in FormA.26B! NOTE 3: Record the voltage applied and the type of voltage (r.m.s. / d.c. / peak) and for results use NB = no breakdown or B = breakdown						
Supplementary information: *Refer to annex K.1.3.1						

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IEC 61010-1			
Clause	Requirement — Test	Result — Remark	Verdict
14.8	TABLE: Transient overvoltage limiting devices	Form A.41	N/A

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IEC 61010-1			
Clause	Requirement – Test	Result — Remark	Verdict
Annex H	TABLE: Qualification of conformal coating for protection against pollution	Form A.42	N/A
TABLE: Additional or special tests conducted			
Clause and name of test	Test type and condition	Observed results	—
15.3 Reliability of interlock switch	10,000 cycles of operation for interlock switch	The component is not impaired after 10,000 of operation	Pass
Supplementary information:			

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IEC 61010-1						
Clause	Requirement — Test		Result — Remark			Verdict
14	TABLE 1 - List of components and circuits relied on for safety					
Unique component reference or location	Application/function	Manufacturer / trademark (NOTE 1)	Type / model	Technical data (NOTE 2)	Standard	Mark(s) of conformity evidence of acceptance (NOTE 3 and 4)
Open frame power supply	Power supply to control panel	Mean Well Enterprise Co., Ltd.	MPD-65B	Input 100-240V a.c., 50/60Hz, 1.6A; output 5V d.c., 3.5A or 24V d.c., 2.0A, 60°C	IEC 60601-1:2005 EN 60601-1:2006	TÜV /Rh
Pressure vessel	Sterile chamber	Sturdy Industrial Co., Ltd.	SAT-450	0.26 MPa, 140°C, 196 L, Cat. III	ASME VIII div. 1:2007	PED (4028-2013-CE-RGC-ACCREDIA)
Metal pressure valve	Pressure protective device	Hopeet Enterprise Co., Ltd.	S10	Bronze body, Max. 40 kg/cm ² , 2.5 kg/cm ² working pressure	Compliance with IEC 61010-1	Evaluated in this report
Electric pressure valve	Protective device	Hsing Lu Company Ltd.	TCL4010	AC 125/250V, 50/60Hz, 20A, 70°C, 4.5 kg/cm ² max. Working pressure	EN 60730-2-6:2008 EN 60730-1:2000	TÜV /Rh
Alternate	Protective device	Hsing Lu Company Ltd.	TCL4013	AC 125/250V, 50/60Hz, 20A, 70°C	EN 60730-2-6:2008 EN 60730-1:2000	TÜV /Rh
Temperature protective controller	Protective device	Delta Electronics Inc.	DTC1000R	24V d.c., 50°C, 4.5 kg/cm ² max. Working pressure	UL 61010-1	UL

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IEC 61010-1						
Clause	Requirement — Test		Result — Remark			Verdict
14	TABLE 1 - List of components and circuits relied on for safety					
Unique component reference or location	Application/function	Manufacturer / trademark (NOTE 1)	Type / model	Technical data (NOTE 2)	Standard	Mark(s) of conformity evidence of acceptance (NOTE 3 and 4)
Alternate	See above	Ston Electronic Co., Ltd.	STC-400	220V a.c., 50/60 Hz, 3VA, 65°C, 4.5 kg/cm ² max. Working pressure	Compliance with IEC 61010-1	Evaluated in this report
Metal enclosure	Protective enclosure	Various	Various	Metal, 1.3mm thickness min.	Compliance with IEC 61010-1	Evaluated in this report
3-phase motor	Pump driver	LAFERT S.p.A.	AM80ZBA2	230/400Vac, 50Hz, 1.1kW, 1.5HP, 4.7/2.7A; 264/460Vac, 60Hz, 1.25kW, 1.7HP, 4.7/2.7A	Compliance with IEC 61010-1	Evaluated in this report
Pump	Vacuuming the pressure vessel	FindeR Rompe S.p.A.	MEX 25	Max. pump speed 3500min-1 Max. inlet gas temperature 100°C Max. service liquid temperature 70°C Max. discharge pressure 200 mbar	Compliance with IEC 61010-1	Evaluated in this report

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IEC 61010-1						
Clause	Requirement — Test		Result — Remark			Verdict
14	TABLE 1 - List of components and circuits relied on for safety					Pass
Unique component reference or location	Application/function	Manufacturer / trademark (NOTE 1)	Type / model	Technical data (NOTE 2)	Standard	Mark(s) of conformity evidence of acceptance (NOTE 3 and 4)
Key switch	Power switch	Switchlab Inc.	A20K	600V _{a.c.} , 10A, 55°C	UL 508	UL
Emergency switch	Urgent protective switch	Switchlab Inc.	A20L	600V _{a.c.} , 10A, 55°C	EN60947-5-5/A1:2005; EN60947-5-1/A1:2009	VDE
Interlock switch	Protective device	Tend Technology Co., Ltd.	TM1308	15A, 250Vac, operating times: 5000	EN 60947-1 EN 60947-5-1	VDE
LCD	Information display	Delta Electronics Inc.	DOP-B07S515	DC24V, 360mA, class 2, 50°C	Compliance with IEC 61010-1	Evaluated in this report
Electric Valve	Pressure controller	CS-Fluid Power Co., Ltd	AD-15-S-C2-220VAC	220Vac, 150°C, 10 kg/cm ²	Compliance with IEC 61010-1	Evaluated in this report
Alternate	Pressure controller	CS-Fluid Power Co., Ltd	AD-20-S-C2 AC220V	220Vac, 150°C, 10 kg/cm ²	Compliance with IEC 61010-1	Evaluated in this report
Alternate	Pressure controller	CS-Fluid Power Co., Ltd	ADS-12A-V-C2 SUS316	220Vac, 150°C, 5 kg/cm ²	Compliance with IEC 61010-1	Evaluated in this report
PLC	Protective device	Delta Electronics Inc.	DVP32ES200R	24Vd.c., 55°C	UL508	UL

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IEC 61010-1						
Clause	Requirement — Test		Result — Remark			Verdict
14	TABLE 1 - List of components and circuits relied on for safety					Pass
Unique component reference or location	Application/function	Manufacturer / trademark (NOTE 1)	Type / model	Technical data (NOTE 2)	Standard	Mark(s) of conformity evidence of acceptance (NOTE 3 and 4)
Printer	Printing information	Beijing Bright Technology Development Co., Ltd.	A5	5Vd.c., 1.5A, 50°C	Compliance with IEC 61010-1	Evaluated in this report
Circuit breaker	Overcurrent protective device	Shihlin Electric&Engineering Corp.	NF100-SN	AC440V, 50/60Hz, 10kA, 40°C	IEC 60947-1/ IEC 60947-3 EN 60947-1/ EN 60947-3	TÜV /Rh
Circuit breaker	Overcurrent protective device	Shihlin Electric&Engineering Corp.	NF50-SN	AC440V, 50/60Hz, 7.5kA, 40°C	IEC 60947-1/ IEC 60947-3 EN 60947-1/ EN 60947-3	TÜV /Rh
Alternate	Overcurrent protective device	Shihlin Electric&Engineering Corp.	BHA-32	380Va.c., 6A	IEC 60947-1/ IEC 60947-3 EN 60947-1/ EN 60947-3	TÜV /Rh
Motor controller	Motor protective device	TECO Electric & Machinery Co., Ltd.	CU-38	415V~440V~, 22kW; 480V~, 30HP	UL 60947-4-1A	UL
Motor controller	Motor protective device	TECO Electric & Machinery Co., Ltd.	CU-27	415V~440V~, 15kW; 480V~, 20HP	UL 60947-4-1A	UL

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IEC 61010-1						
Clause	Requirement — Test		Result — Remark			Verdict
14	TABLE 1 - List of components and circuits relied on for safety					Pass
Unique component reference or location	Application/function	Manufacturer / trademark (NOTE 1)	Type / model	Technical data (NOTE 2)	Standard	Mark(s) of conformity evidence of acceptance (NOTE 3 and 4)
Heat element	Heating water to steam	Ho Chen Co., Ltd.	009-01040-02	230-440V3~, 7-16kW, 9.2-40.2A	Compliance with IEC 61010-1	Evaluated in this report
Fan	Airing device	Delta Electronics Inc.	AFB-1224SH	DC 24V, 10.08Wmax., 2.883M ³ /min.	IEC 60950-1:2003 EN 60950-1:2001	VDE
Transformer	Power supply transformed for control panel	Chin I Electrical Co., Ltd.	H321A08	380V-415V-440V, 50/60Hz, 0.59 Amax.	Compliance with IEC 61010-1	Evaluated in this report
Bobbin of transformer	Bobbin	E I Dupont Nemours & Co., Inc.	101L(r9)(f1)	V-2, 75°C, 1.5 mm	UL 94	UL
Thermal cutoff	Thermal protective device	Anzen Dengu Co., Ltd.	VS11	250Va.c., 1A, 117°C	IEC 60691:2012	VDE
NOTE → 1 List all different manufacturers of the above components		→ 4 asterisk indicates mark assuring agreed level of surveillance				
→ 2 May include electrical, mechanical values		S				
→ 3 List licence no or method of acceptance						

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**Front side view of Model SAT-900HP-L-A****Rear side view of Model SAT-900HP-L-A**

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**Left side view of Model SAT-900HP-L-A****Right side view of Model SAT-900HP-L-A**

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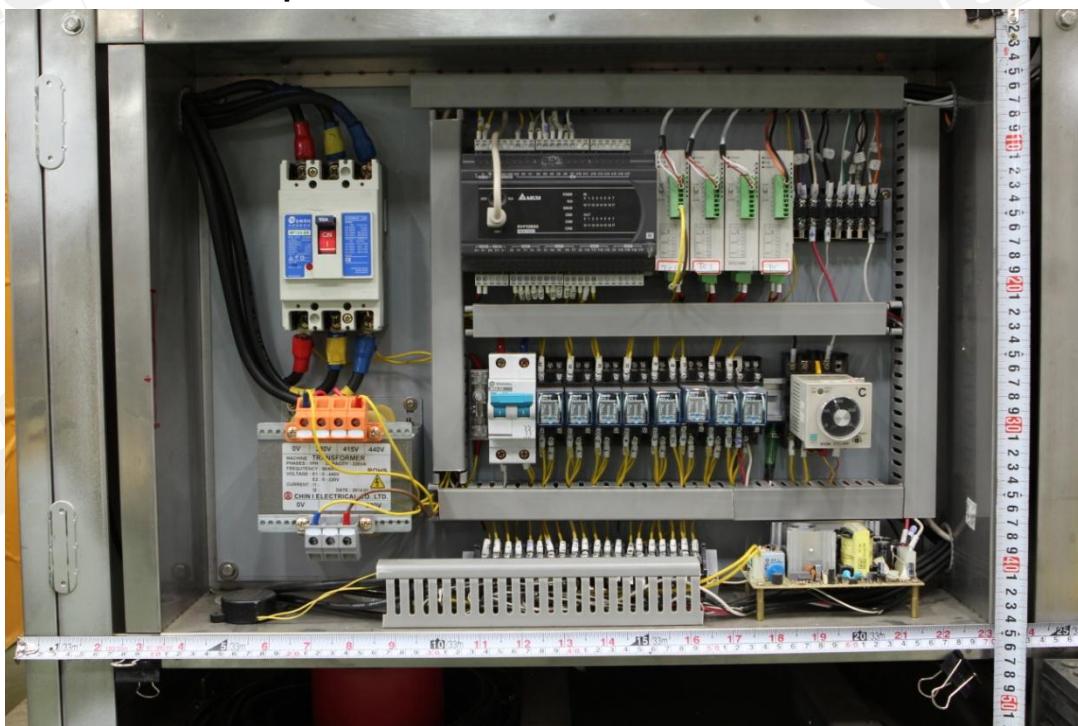
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**Top side view of Model SAT-900HP-L-A****Internal view of Model SAT-900HP-L-A**

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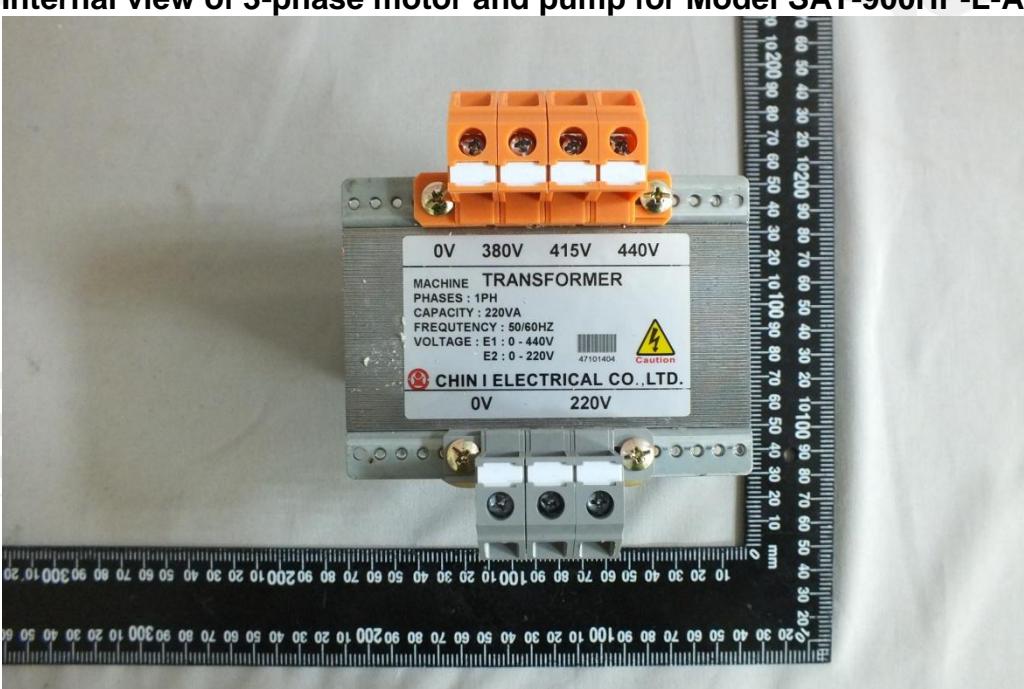
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Internal view of 3-phase motor and pump for Model SAT-900HP-L-A



Internal view of 3-phase transformer for Model SAT-900HP-L-A

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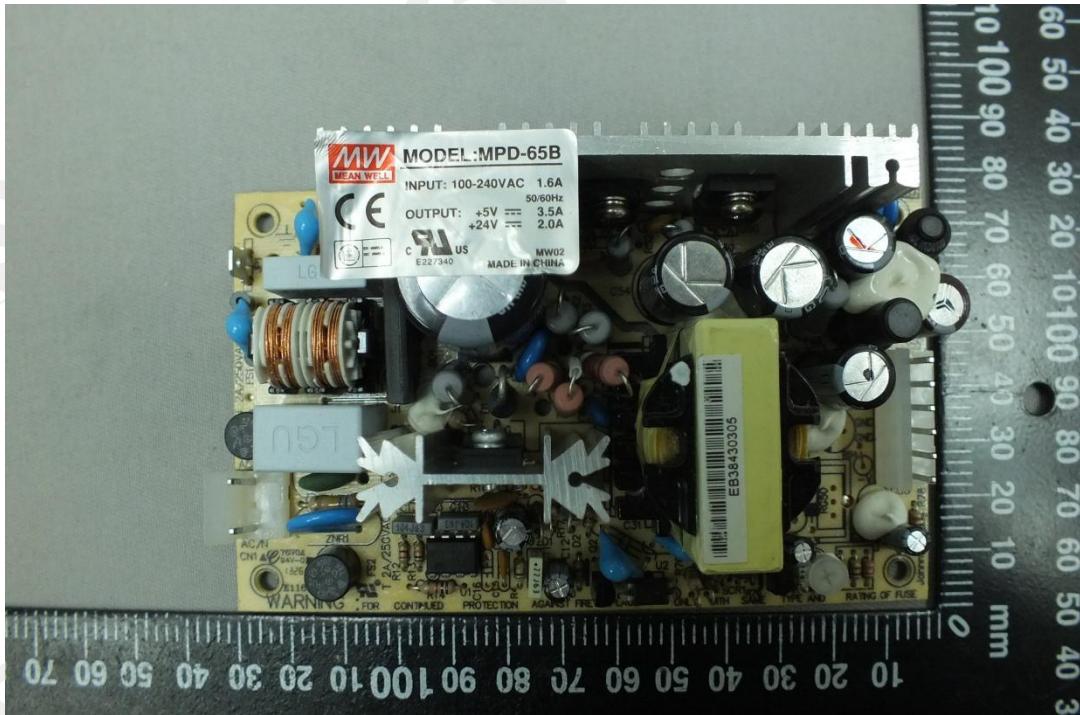
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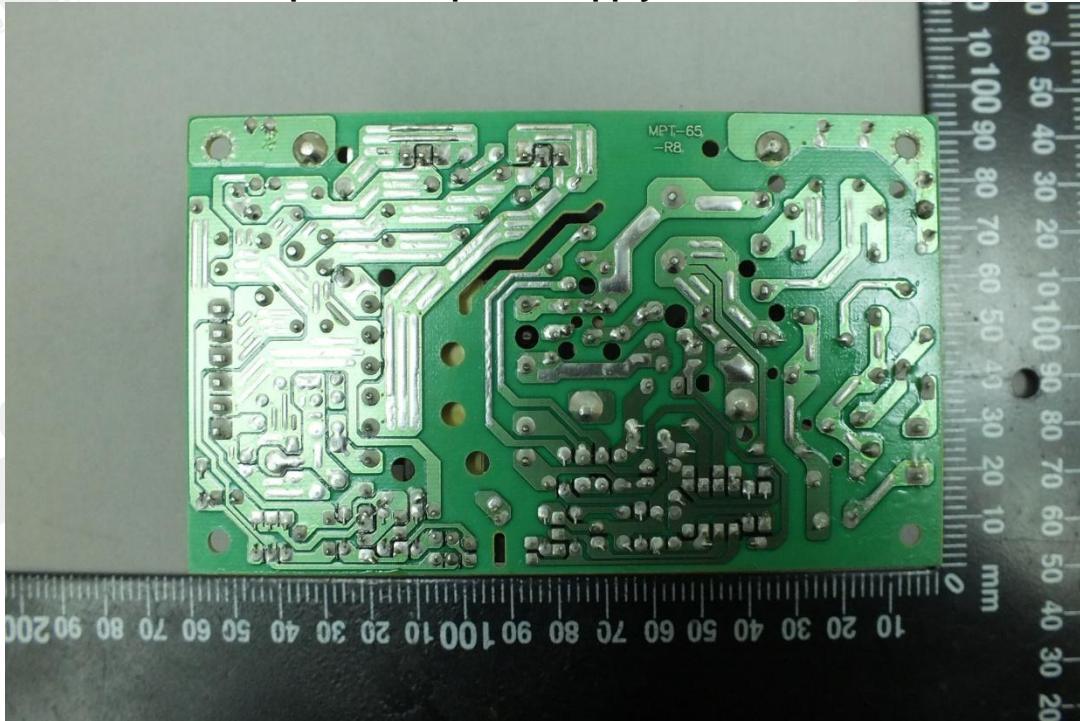
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Internal view of open frame power supply for Model SAT-900HP-L-A



Internal view of open frame power supply for Model SAT-900HP-L-A

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**Internal view of key switch for Model SAT-900HP-L-A****Internal view of emergency switch for Model SAT-900HP-L-A**

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Internal view of temperature protective controller for Model SAT-900HP-L-A



Internal view of LCD for Model SAT-900HP-L-A

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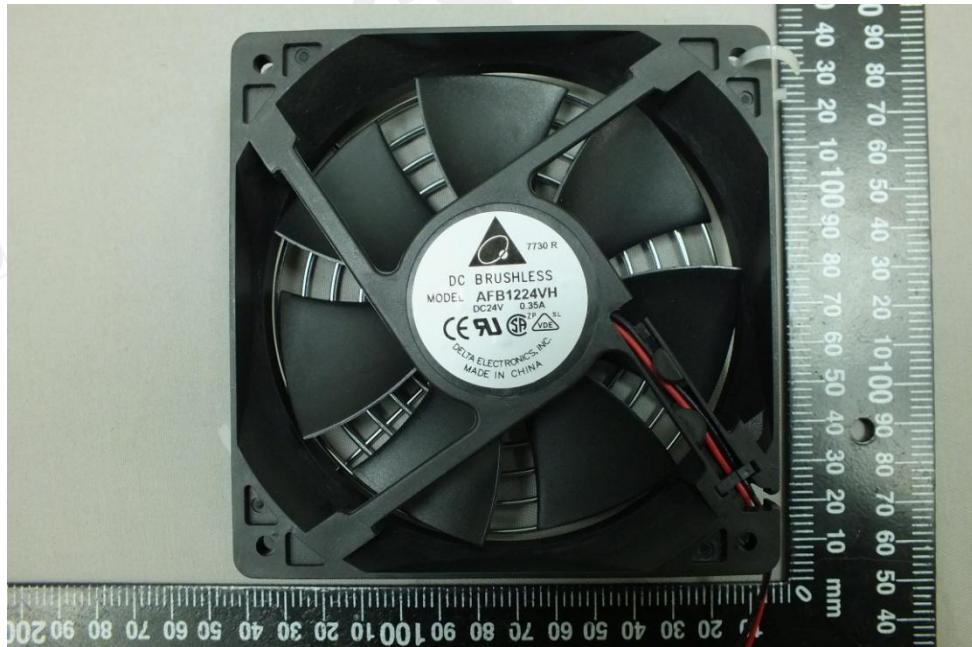
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**Internal view of fan for Model SAT-900HP-L-A****Internal view of pressure valve for Model SAT-900HP-L-A**

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Internal view of pressure protective device for Model SAT-900HP-L-A

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**Internal view of temperature protective controller for Model SAT-900HP-L-A**

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**Internal view of PLC for Model SAT-900HP-L-A**

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Internal view of interlock switch for Model SAT-900HP-L-A



Internal view of circuit breaker for Model SAT-900HP-L-A

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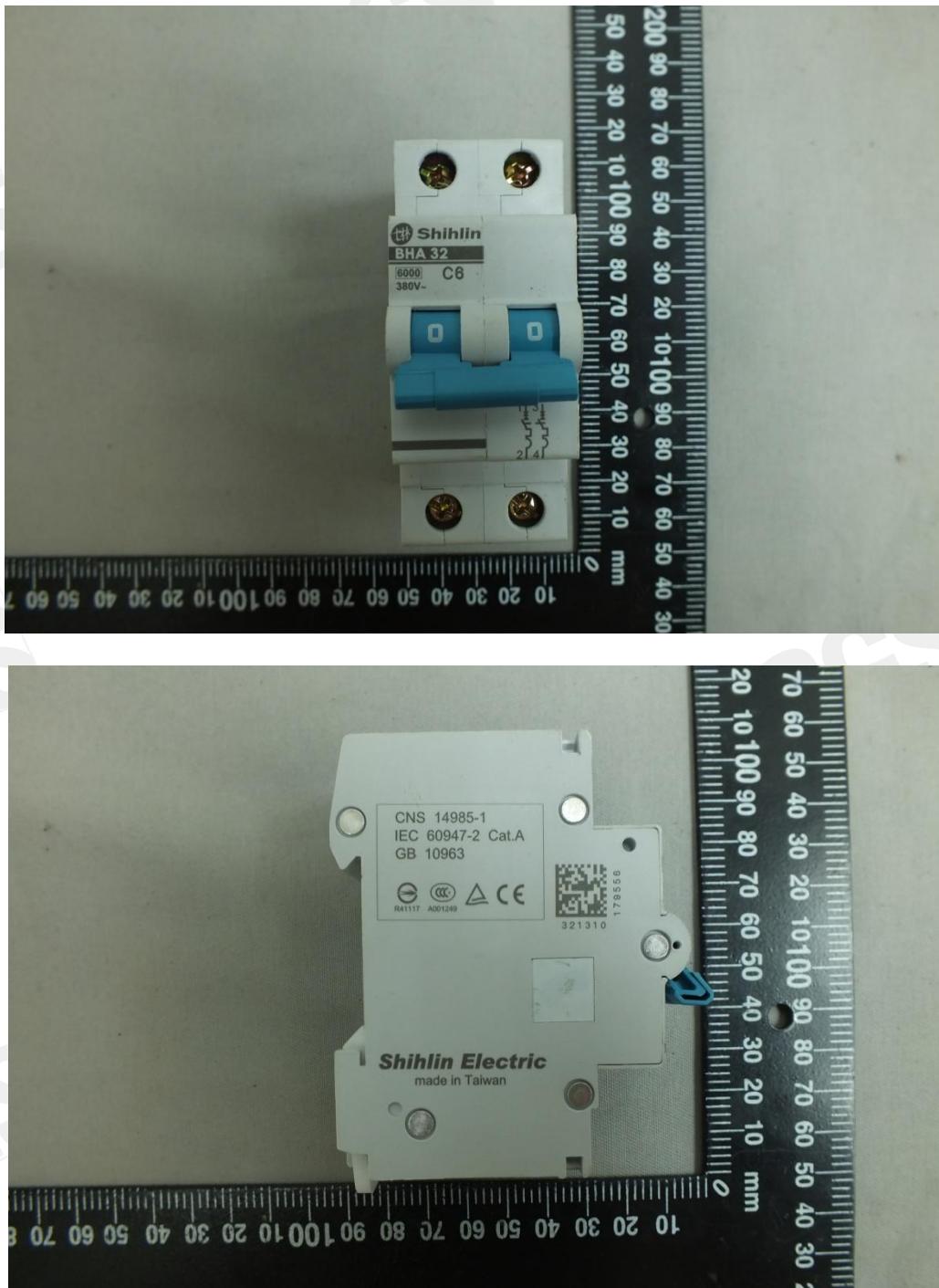
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**Internal view of circuit breaker for Model SAT-900HP-L-A**

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model no.	Unit and Outward								
	Chamber outward	CHAMBER	Volume	SIZE	Voltage	Heater	Wattage of heater	Total wattage (W)	Weight
SAT-400HP-H-A	Cylinder	§ 400×800	100L	800×1800×1 150	230V	Yes	7kW	11kW	299
SAT-400HP-H-B	Cylinder	§ 400×800	100L	800×1800×1 150	230V	No	0W	2kW	299
SAT-400HP-J-A	Cylinder	§ 400×800	100L	800×1800×1 150	380V	Yes	7kW	11kW	299
SAT-400HP-J-B	Cylinder	§ 400×800	100L	800×1800×1 150	380V	No	0W	2kW	299
SAT-400HP-K-A	Cylinder	§ 400×800	100L	800×1800×1 150	415V	Yes	7kW	11kW	299
SAT-400HP-K-B	Cylinder	§ 400×800	100L	800×1800×1 150	415V	No	0W	2kW	299
SAT-400HP-L-A	Cylinder	§ 400×800	100L	800×1800×1 150	440V	Yes	7kW	11kW	299
SAT-400HP-L-B	Cylinder	§ 400×800	100L	800×1800×1 150	440V	No	0W	2kW	299
SAT-400HPD-H-A	Cylinder	§ 400×800	100L	800×1800×1 150	230V	Yes	7kW	11kW	299
SAT-400HPD-H-B	Cylinder	§ 400×800	100L	800×1800×1 150	230V	No	0W	2kW	299
SAT-400HPD-J-A	Cylinder	§ 400×800	100L	800×1800×1 150	380V	Yes	7kW	11kW	299
SAT-400HPD-J-B	Cylinder	§ 400×800	100L	800×1800×1 150	380V	No	0W	2kW	299
SAT-400HPD-K-A	Cylinder	§ 400×800	100L	800×1800×1 150	415V	Yes	7kW	11kW	299
SAT-400HPD-K-B	Cylinder	§ 400×800	100L	800×1800×1 150	415V	No	0W	2kW	299
SAT-400HPD-L-A	Cylinder	§ 400×800	100L	800×1800×1 150	440V	Yes	7kW	11kW	299
SAT-400HPD-L-B	Cylinder	§ 400×800	100L	800×1800×1 150	440V	No	0W	2kW	299
SAT-450HP-H-A	Cylinder	§ 450×900	143L	800×1800×1 250	230V	Yes	9kW	13kW	325
SAT-450HP-H-B	Cylinder	§ 450×900	143L	800×1800×1 250	230V	No	0W	2kW	325
SAT-450HP-J-A	Cylinder	§ 450×900	143L	800×1800×1 250	380V	Yes	9kW	13kW	325
SAT-450HP-J-B	Cylinder	§ 450×900	143L	800×1800×1 250	380V	No	0W	2kW	325
SAT-450HP-K-A	Cylinder	§ 450×900	143L	800×1800×1 250	415V	Yes	9kW	13kW	325
SAT-450HP-K-B	Cylinder	§ 450×900	143L	800×1800×1 250	415V	No	0W	2kW	325
SAT-450HP-L-A	Cylinder	§ 450×900	143L	800×1800×1 250	440V	Yes	9kW	13kW	325
SAT-450HP-L-B	Cylinder	§ 450×900	143L	800×1800×1 250	440V	No	0W	2kW	325

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model no.	Unit and Outward								
	Chamber outward	CHAMBER	Volume	SIZE	Voltage	Heater	Wattage of heater	Total wattage (W)	Weight
SAT-450HPD-H-A	Cylinder	§ 450x900	143L	800x1800x1 250	230V	Yes	9kW	13kW	325
SAT-450HPD-H-B	Cylinder	§ 450x900	143L	800x1800x1 250	230V	No	0W	2kW	325
SAT-450HPD-J-A	Cylinder	§ 450x900	143L	800x1800x1 250	380V	Yes	9kW	13kW	325
SAT-450HPD-J-B	Cylinder	§ 450x900	143L	800x1800x1 250	380V	No	0W	2kW	325
SAT-450HPD-K-A	Cylinder	§ 450x900	143L	800x1800x1 250	415V	Yes	9kW	13kW	325
SAT-450HPD-K-B	Cylinder	§ 450x900	143L	800x1800x1 250	415V	No	0W	2kW	325
SAT-450HPD-L-A	Cylinder	§ 450x900	143L	800x1800x1 250	440V	Yes	9kW	13kW	325
SAT-450HPD-L-B	Cylinder	§ 450x900	143L	800x1800x1 250	440V	No	0W	2kW	325
SAT-500HP-H-A	Cylinder	§ 500x1000	196L	800x1800x1 350	230V	Yes	9kW	13kW	375
SAT-500HP-H-B	Cylinder	§ 500x1000	196L	800x1800x1 350	230V	No	0W	2kW	375
SAT-500HP-J-A	Cylinder	§ 500x1000	196L	800x1800x1 350	380V	Yes	9kW	13kW	375
SAT-500HP-J-B	Cylinder	§ 500x1000	196L	800x1800x1 350	380V	No	0W	2kW	375
SAT-500HP-K-A	Cylinder	§ 500x1000	196L	800x1800x1 350	415V	Yes	9kW	13kW	375
SAT-500HP-K-B	Cylinder	§ 500x1000	196L	800x1800x1 350	415V	No	0W	2kW	375
SAT-500HP-L-A	Cylinder	§ 500x1000	196L	800x1800x1 350	440V	Yes	9kW	13kW	375
SAT-500HP-L-B	Cylinder	§ 500x1000	196L	800x1800x1 350	440V	No	0W	2kW	375
SAT-500HPD-H-A	Cylinder	§ 500x1000	196L	800x1800x1 350	230V	Yes	9kW	13kW	375
SAT-500HPD-H-B	Cylinder	§ 500x1000	196L	800x1800x1 350	230V	No	0W	2kW	375
SAT-500HPD-J-A	Cylinder	§ 500x1000	196L	800x1800x1 350	380V	Yes	9kW	13kW	375
SAT-500HPD-J-B	Cylinder	§ 500x1000	196L	800x1800x1 350	380V	No	0W	2kW	375
SAT-500HPD-K-A	Cylinder	§ 500x1000	196L	800x1800x1 350	415V	Yes	9kW	13kW	375
SAT-500HPD-K-B	Cylinder	§ 500x1000	196L	800x1800x1 350	415V	No	0W	2kW	375
SAT-500HPD-L-A	Cylinder	§ 500x1000	196L	800x1800x1 350	440V	Yes	9kW	13kW	375
SAT-500HPD-L-B	Cylinder	§ 500x1000	196L	800x1800x1 350	440V	No	0W	2kW	375
SAT-600HP-H-A	Cylinder	§ 610x1200	350L	900x1800x1 550	230V	Yes	12kW	16kW	417
SAT-600HP-H-B	Cylinder	§ 610x1200	350L	900x1800x1 550	230V	No	0W	2kW	417

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model no.	Unit and Outward								
	Chamber outward	CHAMBER	Volume	SIZE	Voltage	Heater	Wattage of heater	Total wattage (W)	Weight
SAT-600HP-J-A	Cylinder	§ 610x1200	350L	900x1800x1 550	380V	Yes	12kW	16kW	417
SAT-600HP-J-B	Cylinder	§ 610x1200	350L	900x1800x1 550	380V	No	0W	2kW	417
SAT-600HP-K-A	Cylinder	§ 610x1200	350L	900x1800x1 550	415V	Yes	12kW	16kW	417
SAT-600HP-K-B	Cylinder	§ 610x1200	350L	900x1800x1 550	415V	No	0W	2kW	417
SAT-600HP-L-A	Cylinder	§ 610x1200	350L	900x1800x1 550	440V	Yes	12kW	16kW	417
SAT-600HP-L-B	Cylinder	§ 610x1200	350L	900x1800x1 550	440V	No	0W	2kW	417
SAT-600HPD-H-A	Cylinder	§ 610x1200	350L	900x1800x1 550	230V	Yes	12kW	16kW	417
SAT-600HPD-H-B	Cylinder	§ 610x1200	350L	900x1800x1 550	230V	No	0W	2kW	417
SAT-600HPD-J-A	Cylinder	§ 610x1200	350L	900x1800x1 550	380V	Yes	12kW	16kW	417
SAT-600HPD-J-B	Cylinder	§ 610x1200	350L	900x1800x1 550	380V	No	0W	2kW	417
SAT-600HPD-K-A	Cylinder	§ 610x1200	350L	900x1800x1 550	415V	Yes	12kW	16kW	417
SAT-600HPD-K-B	Cylinder	§ 610x1200	350L	900x1800x1 550	415V	No	0W	2kW	417
SAT-600HPD-L-A	Cylinder	§ 610x1200	350L	900x1800x1 550	440V	Yes	12kW	16kW	417
SAT-600HPD-L-B	Cylinder	§ 610x1200	350L	900x1800x1 550	440V	No	0W	2kW	417
SAT-900HP-H-A	Cylinder	§ 900x1500	955L	1200x2200x 1900	230V	Yes	16kW*2	38kW	865
SAT-900HP-H-B	Cylinder	§ 900x1500	955L	1200x2200x 1900	230V	No	0	2kW	865
SAT-900HP-J-A	Cylinder	§ 900x1500	955L	1200x2200x 1900	380V	Yes	16kW*2	38kW	865
SAT-900HP-J-B	Cylinder	§ 900x1500	955L	1200x2200x 1900	380V	No	0	2kW	865
SAT-900HP-K-A	Cylinder	§ 900x1500	955L	1200x2200x 1900	415V	Yes	16kW*2	38kW	865
SAT-900HP-K-B	Cylinder	§ 900x1500	955L	1200x2200x 1900	415V	No	0	2kW	865
SAT-900HP-L-A	Cylinder	§ 900x1500	955L	1200x2200x 1900	440V	Yes	16kW*2	38kW	865
SAT-900HP-L-B	Cylinder	§ 900x1500	955L	1200x2200x 1900	440V	No	0	2kW	865
SAT-900HPD-H-A	Cylinder	§ 900x1500	955L	1200x2200x 1900	230V	Yes	16kW*2	38kW	865
SAT-900HPD-H-B	Cylinder	§ 900x1500	955L	1200x2200x 1900	230V	No	0	2kW	865
SAT-900HPD-J-A	Cylinder	§ 900x1500	955L	1200x2200x 1900	380V	Yes	16kW*2	38kW	865
SAT-900HPD-J-B	Cylinder	§ 900x1500	955L	1200x2200x 1900	380V	No	0	2kW	865

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model no.	Unit and Outward								
	Chamber outward	CHAMBER	Volume	SIZE	Voltage	Heater	Wattage of heater	Total wattage (W)	Weight
SAT-900HPD-K-A	Cylinder	§ 900x1500	955L	1200x2200x1900	415V	Yes	16kW*2	38kW	865
SAT-900HPD-K-B	Cylinder	§ 900x1500	955L	1200x2200x1900	415V	No	0	2kW	865
SAT-900HPD-L-A	Cylinder	§ 900x1500	955L	1200x2200x1900	440V	Yes	16kW*2	38kW	865
SAT-900HPD-L-B	Cylinder	§ 900x1500	955L	1200x2200x1900	440V	No	0	2kW	865
SAT-S0110HP-H-A	Rectangle	410x410x660	110L	950x1800x1350	230V	Yes	9kW	13kW	457
SAT-S0110HP-H-B	Rectangle	410x410x660	110L	950x1800x1350	230V	No	0W	2kW	457
SAT-S0110HP-J-A	Rectangle	410x410x660	110L	950x1800x1350	380V	Yes	9kW	13kW	457
SAT-S0110HP-J-B	Rectangle	410x410x660	110L	950x1800x1350	380V	No	0W	2kW	457
SAT-S0110HP-K-A	Rectangle	410x410x660	110L	950x1800x1350	415V	Yes	9kW	13kW	457
SAT-S0110HP-K-B	Rectangle	410x410x660	110L	950x1800x1350	415V	No	0W	2kW	457
SAT-S0110HP-L-A	Rectangle	410x410x660	110L	950x1800x1350	440V	Yes	9kW	13kW	457
SAT-S0110HP-L-B	Rectangle	410x410x660	110L	950x1800x1350	440V	No	0W	2kW	457
SAT-S0110HPD-H-A	Rectangle	410x410x660	110L	950x1800x1350	230V	Yes	9kW	13kW	457
SAT-S0110HPD-H-B	Rectangle	410x410x660	110L	950x1800x1350	230V	No	0W	2kW	457
SAT-S0110HPD-J-A	Rectangle	410x410x660	110L	950x1800x1350	380V	Yes	9kW	13kW	457
SAT-S0110HPD-J-B	Rectangle	410x410x660	110L	950x1800x1350	380V	No	0W	2kW	457
SAT-S0110HPD-K-A	Rectangle	410x410x660	110L	950x1800x1350	415V	Yes	9kW	13kW	457
SAT-S0110HPD-K-B	Rectangle	410x410x660	110L	950x1800x1350	415V	No	0W	2kW	457
SAT-S0110HPD-	Rectangle	410x410x660	110L	950x1800x1350	440V	Yes	9kW	13kW	457

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model no.	Unit and Outward								
	Chamber outward	CHAMBER	Volume	SIZE	Voltage	Heater	Wattage of heater	Total wattage (W)	Weight
L-A									
SAT-S0110HPD-L-B	Rectangle	410x410x660	110L	950x1800x1350	440V	No	0W	2kW	457
SAT-S0260HP-H-A	Rectangle	510x510x1000	260L	950x1800x1450	230V	Yes	12kW	16kW	834
SAT-S0260HP-H-B	Rectangle	510x510x1000	260L	950x1800x1450	230V	No	0W	2kW	834
SAT-S0260HP-J-A	Rectangle	510x510x1000	260L	950x1800x1450	380V	Yes	12kW	16kW	834
SAT-S0260HP-J-B	Rectangle	510x510x1000	260L	950x1800x1450	380V	No	0W	2kW	834
SAT-S0260HP-K-A	Rectangle	510x510x1000	260L	950x1800x1450	415V	Yes	12kW	16kW	834
SAT-S0260HP-K-B	Rectangle	510x510x1000	260L	950x1800x1450	415V	No	0W	2kW	834
SAT-S0260HP-L-A	Rectangle	510x510x1000	260L	950x1800x1450	440V	Yes	12kW	16kW	834
SAT-S0260HP-L-B	Rectangle	510x510x1000	260L	950x1800x1450	440V	No	0W	2kW	834
SAT-S0260HPD-H-A	Rectangle	510x510x1000	260L	950x1800x1450	230V	Yes	12kW	16kW	834
SAT-S0260HPD-H-B	Rectangle	510x510x1000	260L	950x1800x1450	230V	No	0W	2kW	834
SAT-S0260HPD-J-A	Rectangle	510x510x1000	260L	950x1800x1450	380V	Yes	12kW	16kW	834
SAT-S0260HPD-J-B	Rectangle	510x510x1000	260L	950x1800x1450	380V	No	0W	2kW	834
SAT-S0260HPD-K-A	Rectangle	510x510x1000	260L	950x1800x1450	415V	Yes	12kW	16kW	834
SAT-S0260HPD-K-B	Rectangle	510x510x1000	260L	950x1800x1450	415V	No	0W	2kW	834
SAT-S0260HPD-L-A	Rectangle	510x510x1000	260L	950x1800x1450	440V	Yes	12kW	16kW	834
SAT-S0260HPD-	Rectangle	510x510x1000	260L	950x1800x1450	440V	No	0W	2kW	834

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model no.	Unit and Outward								
	Chamber outward	CHAMBER	Volume	SIZE	Voltage	Heater	Wattage of heater	Total wattage (W)	Weight
L-B									
SAT-S0454HP-H-A	Rectangle	610x610x12 20	454L	1050x1800x 1650	230V	Yes	15kW*2	37kW	1264
SAT-S0454HP-H-B	Rectangle	610x610x12 20	454L	1050x1800x 1650	230V	No	0W	2kW	1264
SAT-S0454HP-J-A	Rectangle	610x610x12 20	454L	1050x1800x 1650	380V	Yes	15kW*2	37kW	1264
SAT-S0454HP-J-B	Rectangle	610x610x12 20	454L	1050x1800x 1650	380V	No	0W	2kW	1264
SAT-S0454HP-K-A	Rectangle	610x610x12 20	454L	1050x1800x 1650	415V	Yes	15kW*2	37kW	1264
SAT-S0454HP-K-B	Rectangle	610x610x12 20	454L	1050x1800x 1650	415V	No	0W	2kW	1264
SAT-S0454HP-L-A	Rectangle	610x610x12 20	454L	1050x1800x 1650	440V	Yes	15kW*2	37kW	1264
SAT-S0454HP-L-B	Rectangle	610x610x12 20	454L	1050x1800x 1650	440V	No	0W	2kW	1264
SAT-S0454HPD-H-A	Rectangle	610x610x12 20	454L	1050x1800x 1650	230V	Yes	15kW*2	37kW	1264
SAT-S0454HPD-H-B	Rectangle	610x610x12 20	454L	1050x1800x 1650	230V	No	0W	2kW	1264
SAT-S0454HPD-J-A	Rectangle	610x610x12 20	454L	1050x1800x 1650	380V	Yes	15kW*2	37kW	1264
SAT-S0454HPD-J-B	Rectangle	610x610x12 20	454L	1050x1800x 1650	380V	No	0W	2kW	1264
SAT-S0454HPD-K-A	Rectangle	610x610x12 20	454L	1050x1800x 1650	415V	Yes	15kW*2	37kW	1264
SAT-S0454HPD-K-B	Rectangle	610x610x12 20	454L	1050x1800x 1650	415V	No	0W	2kW	1264
SAT-S0454HPD-L-A	Rectangle	610x610x12 20	454L	1050x1800x 1650	440V	Yes	15kW*2	37kW	1264
SAT-S0454HPD-L-B	Rectangle	610x610x12 20	454L	1050x1800x 1650	440V	No	0W	2kW	1264
SAT-S0680HP-H-	Rectangle	610x915x12 20	680L	1740x2060x 1960	230V	Yes	15kW*2	37kW	1937

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model no.	Unit and Outward								
	Chamber outward	CHAMBER	Volume	SIZE	Voltage	Heater	Wattage of heater	Total wattage (W)	Weight
A									
SAT-S0680HP-H-B	Rectangle	610x915x1220	680L	1740x2060x1960	230V	No	0W	2kW	1937
SAT-S0680HP-J-A	Rectangle	610x915x1220	680L	1740x2060x1960	380V	Yes	15kW*2	37kW	1937
SAT-S0680HP-J-B	Rectangle	610x915x1220	680L	1740x2060x1960	380V	No	0W	2kW	1937
SAT-S0680HP-K-A	Rectangle	610x915x1220	680L	1740x2060x1960	415V	Yes	15kW*2	37kW	1937
SAT-S0680HP-K-B	Rectangle	610x915x1220	680L	1740x2060x1960	415V	No	0W	2kW	1937
SAT-S0680HP-L-A	Rectangle	610x915x1220	680L	1740x2060x1960	440V	Yes	15kW*2	37kW	1937
SAT-S0680HP-L-B	Rectangle	610x915x1220	680L	1740x2060x1960	440V	No	0W	2kW	1937
SAT-S0680HPD-H-A	Rectangle	610x915x1220	680L	1740x2060x1960	230V	Yes	15kW*2	37kW	1937
SAT-S0680HPD-H-B	Rectangle	610x915x1220	680L	1740x2060x1960	230V	No	0W	2kW	1937
SAT-S0680HPD-J-A	Rectangle	610x915x1220	680L	1740x2060x1960	380V	Yes	15kW*2	37kW	1937
SAT-S0680HPD-J-B	Rectangle	610x915x1220	680L	1740x2060x1960	380V	No	0W	2kW	1937
SAT-S0680HPD-K-A	Rectangle	610x915x1220	680L	1740x2060x1960	415V	Yes	15kW*2	37kW	1937
SAT-S0680HPD-K-B	Rectangle	610x915x1220	680L	1740x2060x1960	415V	No	0W	2kW	1937
SAT-S0680HPD-L-A	Rectangle	610x915x1220	680L	1740x2060x1960	440V	Yes	15kW*2	37kW	1937
SAT-S0680HPD-L-B	Rectangle	610x915x1220	680L	1740x2060x1960	440V	No	0W	2kW	1937
SAT-S0848HP-H-A	Rectangle	610x915x1520	848L	1740x2060x2260	230V	Yes	16kW*2	38kW	2528
SAT-S0848HP-H-	Rectangle	610x915x1520	848L	1740x2060x2260	230V	No	0	2kW	2528

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model no.	Unit and Outward								
	Chamber outward	CHAMBER	Volume	SIZE	Voltage	Heater	Wattage of heater	Total wattage (W)	Weight
B									
SAT-S0848HP-J-A	Rectangle	610x915x15 20	848L	1740x2060x 2260	380V	Yes	16kW*2	38kW	2528
SAT-S0848HP-J-B	Rectangle	610x915x15 20	848L	1740x2060x 2260	380V	No	0	2kW	2528
SAT-S0848HP-K-A	Rectangle	610x915x15 20	848L	1740x2060x 2260	415V	Yes	16kW*2	38kW	2528
SAT-S0848HP-K-B	Rectangle	610x915x15 20	848L	1740x2060x 2260	415V	No	0	2kW	2528
SAT-S0848HP-L-A	Rectangle	610x915x15 20	848L	1740x2060x 2260	440V	Yes	16kW*2	38kW	2528
SAT-S0848HP-L-A	Rectangle	610x915x15 20	848L	1740x2060x 2260	440V	No	0	2kW	2528
SAT-S0848HPD-H-A	Rectangle	610x915x15 20	848L	1740x2060x 2260	230V	Yes	16kW*2	38kW	2528
SAT-S0848HPD-H-B	Rectangle	610x915x15 20	848L	1740x2060x 2260	230V	No	0	2kW	2528
SAT-S0848HPD-J-A	Rectangle	610x915x15 20	848L	1740x2060x 2260	380V	Yes	16kW*2	38kW	2528
SAT-S0848HPD-J-B	Rectangle	610x915x15 20	848L	1740x2060x 2260	380V	No	0	2kW	2528
SAT-S0848HPD-K-A	Rectangle	610x915x15 20	848L	1740x2060x 2260	415V	Yes	16kW*2	38kW	2528
SAT-S0848HPD-K-B	Rectangle	610x915x15 20	848L	1740x2060x 2260	415V	No	0	2kW	2528
SAT-S0848HPD-L-A	Rectangle	610x915x15 20	848L	1740x2060x 2260	440V	Yes	16kW*2	38kW	2528
SAT-S0848HPD-L-B	Rectangle	610x915x15 20	848L	1740x2060x 2260	440V	No	0	2kW	2528
Note									

-End of report-

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