

Descriptive Report and Test Results

MASTER CONTRACT: 215310 REPORT: 70165278 PROJECT: 70165278

Edition 1:January 30, 2018; Project 70165278 - Taiwan
Issued by Jessie Lin

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PRODUCTS

CLASS 3881 51 - TOOLS - Portable CLASS 3881 81 - TOOLS - Portable - CERTIFIED TO U.S. STANDARDS

Model	Description	V	Hz	А	RPM
DM51P	Diamond Core Drill, cord-connected, grounded	115	60	15	3600
DM51D	Diamond Core Drill, cord-connected, grounded	115	60	15	3600
DME51P	Diamond Core Drill, cord-connected, grounded	115	60	15	3600
DMC51P	Diamond Core Drill, cord-connected, grounded	115	60	15	3600
DME51D	Diamond Core Drill, cord-connected, grounded	115	60	15	3600
DMC51D	Diamond Core Drill, cord-connected, grounded	115	60	15	3600
TD5W	Diamond Core Drill, cord-connected, grounded	115	60	15	3600
DM52P	Diamond Core Drill, cord-connected, grounded	115	60	15	1800/3600
DM52D	Diamond Core Drill, cord-connected, grounded	115	60	15	1800/3600
DME52P	Diamond Core Drill, cord-connected, grounded	115	60	15	1800/3600
DMC52P	Diamond Core Drill, cord-connected, grounded	115	60	15	1800/3600
DME52D	Diamond Core Drill, cord-connected, grounded	115	60	15	1800/3600
DMC52D	Diamond Core Drill, cord-connected, grounded	115	60	15	1800/3600
SD17P	Diamond Core Drill, cord-connected, grounded	115	60	15	1800/3600
DM5	Diamond Core Drill, cord-connected, grounded	115	60	15	1500/2500

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APPLICABLE REQUIREMENTS

CAN/CSA C22.2 No 60745-2-1-04, 2nd Edition, ANSI/UL 60745-2-1:2nd Edition	-	Hand-held Motor Operated Electric tools - Safety - Part 2-1: Particular requirements for drills ad impact drills
CAN/CSA C22.2 No 60745-1-07, 3rd Edition: Upd. 1+Upd.2+Upd.3 ANSI/UL 60745-1, 4th Edition	-	Hand-held Motor Operated Electric tools - Safety - Part 1: General requirements

MARKINGS

The manufacturer is required to apply the following markings:

- Products shall be marked with the markings specified by the particular product standard.
- Products certified for Canada shall have all Caution and Warning markings in both English and French.

Additional bilingual markings not covered by the product standard(s) may be required by the Authorities Having Jurisdiction. It is the responsibility of the manufacturer to provide and apply these additional markings, where applicable, in accordance with the requirements of those authorities.

The products listed are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US (indicating that products have been manufactured to the requirements of both Canadian and U.S. Standards) or with adjacent indicator 'US' for US only or without either indicator for Canada only.

For tools sold in Canada, instruction manuals and safety instructions / warnings marked on the product shall be written in both English and French. For tools sold in the United States of America, instruction manuals and safety instructions/warnings marked on the product shall be written in English.

The following markings shall appear on each unit:

- Submitter's identification; and/or master contract number "215310"
- name or trade mark or identification mark and address of the manufacturer or any other agent responsible for placing the tool on the market
- Model designation
- rated voltage or rated voltage range
- symbol for nature of supply, unless the rated frequency(ies) or rated frequency range is marked.
- Rated input, in watts or Rated Current, in amperes.
 - MARNING To reduce the risk of injury, user must read instruction manual or
- The year of manufacture and a date code identifying at least the month of manufact

- Earthing terminals shall be indicated by the symbol

CAN/CSA C22.2 No 60745-2-1-04, ANSI/UL 60745-2-1:2nd Edition requirement:

- Rated no-load speed of the output spindle
- Maximum capacity, in millimetres, of the chuck
- Use auxiliary handles supplied with the tool. Loss of control can cause personal injury.

The word "WARNING" shall be in capital letters not less than 2,4 mm high and shall not be separated from either the cautionary statement or the symbol or \triangle or \triangle

Nameplate adhesive label material approval information:

1. Yong Mei Printing Company, Limited (INT) CSA Certified. File no. 87277, UL Certified. File no. MH17252.

Model	Application Surface	Max Temp (°C)
YM-50	Metal and plastic groups III and VI	80
YM-S	Metal and plastic groups III and VI	80

INSTRUCTIONS

An instruction manual and general safety instructions shall be provided with the tool and packaged in such a way that is noticed by the user when the tool is removed from the packaging. The general safety instructions may be separate from the instruction manual. They shall be written in the official language(s) of the country in which the tool is sold.

Instructions shall be legible and contrast with the background.

The instruction manual shall include the name and address of the manufacturer or supplier of branded product and an explanation of the symbols used on the product.

The Safety Rules, if in English shall be verbatim and in the exact order as given and in any other official language to be equivalent.

See standard CAN/CSA C22.2 No 60745-2-1-04, 2nd Edition, ANSI/UL 60745-2-1:2nd Edition) and CAN/CSA C22.2 No 60745-2-1-04, ANSI/UL 60745-2-1:2nd Edition for details.

ALTERATIONS

(a) Markings as noted above.

FACTORY TESTS

Correct Operation Test

The safe operation shall be checked, for example, by electrical measurements, by verifying the functional devices, such as switches and manually-operated controls, and by verifying the direction of rotation of motors.

Dielectric Voltage Withstand Test

The insulation of the tools shall be checked by the following test:

A voltage of substantially sine-wave form, having a frequency of 50 Hz or 60 Hz and the value shown in Table N.1, is immediately applied, for 3 s, between live parts and:

a) accessible metal parts which may become live in the event of an insulation fault or as a result of incorrect assembly;

b) inaccessible metal parts.

The tests of item a) are made on the assembled tool; the test of item b) is made on the tool, either completely assembled, or in the production line.

The tests of item a) are made on all tools, the tests of item b) being only made on class II tools.

The high-voltage transformer used for the tests shall be so designed that, when the output terminals are shortcircuited after the output voltage has been adjusted to the appropriate test voltage, the output current is at least 200 mA.

The overcurrent relay shall trip when the output current exceeds 5 mA.

Care shall be taken that the r.m.s. value of the test voltage applied is measured within ± 3 % and that the voltage measuring device or other indicator responds to the output voltage of the transformer.

Attention is drawn to the fact that the test described cannot always be used if the tool incorporates d.c. components; in such cases, tests with d.c. may be necessary.

The inherent resistance of the d.c. source shall allow a short-circuit current of at least 200 mA.

No flashover or breakdown shall occur during the tests.

Table N.1 – Test voltages for the electric strength test

Application of test voltage	Test voltage V						
	Class III tools	Class II tools	Class I tools				
Over basic insulation	400	1 000	1 000				
Over double insulation or reinforced insulation	-	2 500	-				

SPECIAL INSTRUCTIONS FOR FIELD SERVICES

1. Component descriptions marked with either the "(INT)" or "(INT*)" identifiers may be substituted with other components providing the requirements specified under the notes in the "Description" are complied with.

COMPONENT SPECIAL PICKUP

1. Component descriptions marked with the identifier "(CT)" are subject to annual pickup and Conformity Testing.

DESCRIPTION

Notes:

- 1. Component Substitution
 - a) Critical components (those identified by mfr name, cat no), which are NOT identified with either "INT" or "INT*" are not eligible for substitution without evaluation and report updating
 - b) The term "INT" means a "Certified" and/or "Listed" (or a "Recognized" and/or "Accepted") component may be replaced by one "Certified" and/or "Listed" by another certification organization accredited by the appropriate accreditation body or scheme requirements to the correct standard, for the same application; providing the applicable country identifiers are included and requirements in item "d" below are complied with.
 - c) The Term "INT*" means a "Recognized" and/or "Accepted" component may be replaced by one "Recognized" and/or "Accepted" by another certification organization accredited by the appropriate accreditation body or scheme requirements to the correct standard, for the same application, providing the applicable country identifiers are included, the component is **also** CSA Certified, the requirements in item "d" below are complied with and any "conditions of suitability" for the component (as recorded in this descriptive report) are complied with.
 - d) Components which have been substituted, must be of an equivalent rating, configuration (size, orientation, mounting) and the applicable minimum creepage and clearance distances are to be maintained from live parts to bonded metal parts and secondary parts.
 - e) Substitution of a "Certified" and/or "Listed" component with a component that is "Recognized" or "Accepted" is not permitted without evaluation and report updating.

The subject models are grounded concrete saws equipped with an integrated GFCI and water feed system and to be used with a diamond cut-off wheel for diamond cutting. They are intended to cut materials such as concrete, masonry and tile. Shaft and commutator are double insulated construction. They are similar in constructions except for model designation.

Model	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
DM51P	Х	Х	Х	Α	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
DM51D	Х	Х	Х	Α	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
DME51P	Х	Х	Х	Α	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
DMC51P	Х	Х	Х	Α	Х	Χ	Х	Х	Х	Χ	Χ	Х	Х	Х	Х	Х	Х
DME51D	Х	Х	Х	Α	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
DMC51D	Х	Х	Х	Α	Х	Χ	Х	Х	Х	Χ	Χ	Х	Х	Х	Х	Х	Х
TD5W	Х	Х	Х	Α	Х	Χ	Х	Х	Х	Х	Χ	Х	Х	Х	Х	Х	Х
DM52P	Х	Х	Х	В	Х	Χ	Х	Х	Х	Χ	Χ	Х	Х	Х	Х	Х	Х
DM52D	Х	Χ	Х	В	Х	X	Х	Х	Х	Х	X	Х	Χ	Х	Χ	Х	Х
DME52P	Х	Х	Х	В	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
DMC52P	Х	Х	Х	В	Х	Χ	Х	Х	Х	Х	Χ	Х	Х	Х	Х	Х	Х
DME52D	Х	Х	Х	В	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
DMC52D	Х	Х	Х	В	Х	Χ	Х	Х	Х	Х	Χ	Х	Х	Х	Х	Х	Х
SD17P	Х	Х	Х	В	Х	X	Х	Х	Х	X	X	Х	Х	Х	Х	Х	Х
DM5	Х	Χ	Х	С	Х	Χ	Х	Х	Х	Χ	Χ	Х	Χ	Х	Χ	Χ	Х

MODEL DIFFERENCES BY ITEM NO

No	UL CCN.	Component	Manufacturer	Material	Rating, Comment, Dimensions	Appr
		Description		Cat. No.		Agency
1	QMFZ2	Motor Enclosure	REI-SHING PLASTIC CO.,LTD (E212523)	FR1700G	Dimension See Drawing 1. 2.5 mm thick. Rated V-2 at 1.6 mm, all color, 65 °C. One piece construction.	UL
2	QMFZ2	Handle	REI-SHING PLASTIC CO.,LTD (E212523)	FR1700G	Dimension See Drawing 2. 3 mm thick. Rated V-2 at 1.6 mm, all color, 65 °C. Two-piece construction, secured together with screws. Provided with five ventilation openings at each side, each measured 45 mm long by 4.3 mm wide.	UL
3	QMFZ2	Baffle	Nan Ya (E130155)	Polyamide 6 2210G6	OD 86mm, ID 51mm, 15.1 mm high. 1.5mm thickness. Secured to motor housing and gear box.	UL
4A	-	Gear Box	-	Aluminum Alloy	Dimension See Drawing 3. Combination with Gear housing and Gear Cover Drawing 6, secured together with screws and spring washers. Min. 3 mm thickness.	
4B	-	Alternate gear box	-	Aluminum Alloy	Dimension See Drawing 4. Combination with Gear housing and Gear Cover Drawing 6, secured together with screws and spring washers. Min. 3 mm thickness. Provide with a switch knob to change the speed.	-
4C	-	Alternate gear box	-	Aluminum Alloy	Dimension See Drawing 5. Combination with Gear housing and Gear Cover Drawing 6, secured together with screws and spring washers. Min. 3 mm thickness. Provide with a switch knob to change the speed	
5	-	Side handle	-	-	Combination with plastic handle, one metal ring secure to gear box. Not a part of enclosure.	
6	ELBZ2	Power Supply Cord (INT)	TA AN (E300888)	Type SJTW	300Vac, 14/3 AWG, min. 105°C. 1.8m long min. Provided with NEMA 5-15P plug, polarized. Line/Neutral connects with switch by a screw. Type Y attachment.	UL CUL

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No	UL CCN.	Component	Manufacturer	Material Cat. No.	Rating, Comment, Dimensions	Appr Agency
7		Bonding	-	-	The bonding conductor of power supply cord is connected with a certified 14 AWG green bonding conductor from motor housing by a certified closed-end crimp-on type wire connector. This crimp-on type wire connector is suitable for size and number of wires used. The bonding conductor is terminated with a certified closed loop crimp type connector and secured to Motor Housing by an external toothed washer and a minimum No. 6 machine screw. Two threads are engaged in Motor Housing.	-
8	KCXS/7	Ground Fault Circuit Interrupter (GFCI)	Zhongshan Kaper Electrical Co. Ltd (E353279)	GC01	120Vac, 15A.1800W.Intergal with power cord, manual-reset, inline type.	UL CUL
9	-	Cord Guard Bushing	-	Rubber	Overall 72mm long with a 23mm OD by 5.4mm thick lip at one end, 15mm OD by 3mm thick lip at the other end. Projected outside the tool beyond the inlet opening of 60mm (at least 5 times the overall diameter of power supply cord). Fitted over Power Supply Cord and trap-fitted in Handle.	-
10	QMFZ2	Strain Relief	Same as Handle	Same as Handle	Overall 21mm by 9.2mm by 4.1mm. Secured to integral U-shaped boss on Handle with two screws.	UL
11	WOYR2/8	Tool Switch	Defond (E219444)	BGV-2122	Rated 22A, 125Vac. Momentary contact type with lock-on button. DPST. Screw type Terminal. Disconnects both conductors of power supply cord. Secured to enclosure by mechanicals.	CUL UL
12	-	Brushes	-	Carbon	Two provided. 17 mm long by 7mm wide by 19mm long. Spring loaded. Connected with two copper alloy blade terminals for electrical connection. Provided with limited length shunt wire which is shorter than brush holder sleeve to limit brush travel at end of brush life for brush spring retention feature.	-
13	-	Brush Holder Sleeves	-	Copper Alloy	Dimension see drawing 7. Secured to motor enclosure with screws.	-
14	AVLV2	Motor leads (INT)	Yi Huan (E250011)	AWM/3321	16AWG. Rated 600V, 150°C, FT-1. One end soldered to Printed Wiring Board; the other terminated in a recognized Crimp type connector to motor or bare wire type terminal to switch.	CUL UL

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No	UL CCN.	Component	Manufacturer	Material	Rating, Comment, Dimensions	Appr
		Description		Cat. No.		Agency
15	-	Stator	-	Laminated	81mm OD by 46mm ID by 60mm stack.	-
				Steel	Class 120 insulation.	
	OD) GUA	a	DACIEIC	D.1	10000 0.0. 1	T T T
	OBMW2	Stator	PACIFIC	Polyester-	180°C. 0.9mm diameter, 45 turn by two.	UL
		winding	(F84081)	Wine DEWIL	Formed and neid with metal strap with	
			(104001)	wile, PEWH	insulation to anosa min. 2.5mm from	
					leminations Vernish imprograted (INT)	
					'ELANTAS' E171184 min 180°C	
-	OBMW2	Alternate	ΤΑ ΥΔ	Polvester-	155° C 0.9mm diameter 45 turn by two	IП
	ODM W2	Stator	(E84201)	imide Copper	Formed and held with metal strap with	
		Winding	(201201)	Wire PEW	polyester film coated electrical paper	
		,, mang			insulation to space min 2 5mm from	
					laminations. Varnish impregnated. (INT)	
					'ELANTAS', E171184, 180°C.	
II	QMFZ2	Stator Slot	PUCARO	Triflexil M,	155°C, 0.25 mm thickness. Extends min.	UL
		Liner	(E163779)	Triflexil	1.5mm beyond stator laminations.	
				M/VL,		
				Triflexil		
				M/VL-UE,		
				Triflexil		
				NMN/50,		
				Triflexil		
ш	A VI V/2/0	Ctoton Looda	V: Huge	NMN/80	16AWC 600V 150°C One and is	TT
111	AVLV2/8	Stator Leads	(E_{250011})	3321/AWM	16AWG, 600V, 150°C. One end is	UL CUI
			(E230011)		coil and and sleeved with a certified	COL
					silicone coated fiberglass tube: the other	
					end is connected to tool switch terminal	
					and for connection to carbon brush	
					terminal.	
16	-	Armature	-	Laminated	Dimension See Drawing 8. 14 slots. Class	-
				Steel	120 insulation.	
Ι	OBMW2	Rotor	PACIFIC	Polyester-	180°C. 0.8mm diameter, 6 turn. Formed	UL
		Winding	ELECTRIC	imide Copper	and held with metal strap with polyester	
			(E84081)	Wire, PEWH	film coated electrical paper insulation to	
					space min. 2.5mm from laminations.	
					Varnish impregnated (INT), 'ELANTAS',	
		A 1(та хиа	Delese t	E1/1184, min. 180°C.	TT
-	ORMM5	Alternate	$(E^{2}A^{2}O^{1})$	roiyester-	and hold with motol stron with polyester	UL
		Winding	(204201)	Wire DEW	film coated electrical paper insulation to	
		w mung		** IIC, I L **	space min 2 5mm from laminations	
					Varnish impregnated (INT) 'FLANTAS'	
					E171184. min. 180°C	
П	_	Shaft	-	Steel	Double insulated	_

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No	UL CCN.	Component	Manufacturer	Material	Rating, Comment, Dimensions	Appr
		Description		Cat. No.		Agency
III	QMFZ2	Shaft	BMC China	Unsaturated	130°C. Extends through centre of armature	UL
		Insulation	(E253513)	Polyester	laminations, windings and commutator.	
				BMC FTI901	Min 1mm thick under laminations and	
					commutator as supplementary insulation.	
					Min 2 mm thick under windings as	
					reinforced insulation. Extends minimum	
					2.5mm beyond commutator support and	
					5mm beyond windings at fan end. Bearing	
					is spaced 8mm from commutator bars.	
IV	OBJS2	Armature Slot	PUCARO	Triflexil M,	155°C, 0.23mm thick. Extends min 1.5mm	UL
		Liner	(E163779)	Triflexil	beyond lamination.	
				M/VL,		
				Triflexil		
				M/VL-UE,		
				Triflexil		
				NMN/50,		
				Triflexil		
				NMN/80		
V	QMFZ2	Armature Slot	-	Vulcanized	1.0 mm thick. Extends min. 1.5mm	UL
		Wedge		Fibre	beyond lamination.	
VI	QMTS2	Armature End	-	Vulcanized	Minimum 2 mm thick at spider.	UL
		Spider		Fibre		
VII	-	Commutator	-	-	Dimension See Drawing 9.	-
					28 integrally moulded copper alloy	
					commutator bars.	
VIII	-	Commutator	-	Phenolic	1.0 mm thick min. Basic insulation.	-
		Insulation				
IX	-	Impeller	-	Plastics	Dimension See Drawing 10. Radial type.	-
17	ZPMV2	Control board	-	Phenolic	Rated V-0, potting, consist of the	UL
					followings:	
Ι	-	Choke	AIN HSIN	13006	0.5mm, UEW type, mm, 13 turns.	-
		(T1)				
Π	-	TRIAC	ST	BTA41-600B	26A, 600V.	-
		(TR1)				
III	-	IC	MICROCHIP	12F675	5V, 10A.	-
		(IC1)				

TEST HISTORY

Edition 1: Project 70165278

No test was considered necessary to comply with following standards:

CAN/CSA C22.2 No 60745-2-1-04, 2nd Edition, ANSI/UL 60745-2-1:2nd Edition	-	Hand-held Motor Operated Electric tools - Safety - Part 2-1: Particular requirements for drills ad impact drills
CAN/CSA C22.2 No 60745-1-07, 3rd Edition: Upd. 1+Upd.2+Upd.3 ANSI/UL 60745-1, 4th Edition	-	Hand-held Motor Operated Electric tools - Safety - Part 1: General requirements
Refer to Att5 Accepted IEC 60745-2-1 in conjunction	witl	n IEC 60745-1 test report.
Test items: All tests are provided by CB report as below:		
$[\mathbf{X}] \underline{\text{Marking}} - \text{Cl. 8}$		
Label Adhesion - Cl. 8.13		
[X] Protection Against access to live parts		
[A] Auxiliary Handles – CI. 9.4 Mechanical Strongth (CL 20.4)		
I Capacitor Discharge - Cl. 21.21		
$[\mathbf{X}]$ Starting - C1 10		
[X] All tools		
Additional tests for centrifugal or other auton	natic	starting switches
[X] Input and Current - Cl. 11		
[X] Heating - Cl. 12		
Temperature Rise – Cl. 12.1		
Leakage Current (Cl. 13) after Heating - Cl. 12	.2	
[] Windings exceeds temperatures spec	cifie	d in Table in Cl. 12.5 - Cl. 12.6
Oven Aging		
Check for Interturn Shorts Ci	rcuit	s Electric Strength (Cl. 15.2) after Oven Aging.
<u>Humidity</u> (Cl. 14.3)		
Electric Strength (Cl. 15.2) aft	er hu	ımidity.
[X] <u>Moisture Resistance</u> – Cl. 14		
[] <u>Spillage</u> - 14.2		
Electric Strength (Cl. 15.2)	02	. 00/
[A] <u>Humidity</u> Conditioning - Cl. 14.3; 48 hours	;; 93	± 2%
Electric Strength (Cl. 15.2)		

Electric Strength (Cl 15.3) [] 50 %, [X] 75 % or [] 100 % at after conditioning

Electric Strength (Cl 15.3) [] 50 %, [] 75 % or [] 100 % at after conditioning

[X] <u>Endurance</u> - Cl. 17

[X] Tools – Cl. 17.2

[] Centrifugal/Automatic Switches – Cl. 17.3

[X] Abnormal Operation - Cl. 18 [X] Motor Overvoltage - Cl. 18.7 Leakage Current (Cl. 13) after conditioning [X] Electronic Device, Motor Overvoltage - Cl. 18.10 Leakage Current (Cl 13) after conditioning [] Reversing Switches - Cl. 18.11 [X] Extreme Overloads - Cl. 18.12 Leakage Current (Cl. 13) monitored during and after the overload Electric Strength (Cl. 15.2) after cooled to room temperature [X] Mechanical Hazards Cl. 19 **[X]** Cl. (19.101) [X] Mechanical Strength Cl. 20; [X] Switch Actuator Impact - Cl. 20.2 Inspection by (Cl. 9)and (Cl. 27.1) after drops [X] 1 meter Drop - Cl. 20.3 Inspection by (Cl. 9)and(Cl. 27.1)after drops Electric Strength (Cl. 15.2) after drops [] Brush Torque/Impact - Cl. 20.4 Inspection by (Cl. 9)and (Cl. 27.1) after drops – no brush cap [X] Construction - Cl. 21 [] Aging of Rubber Cl. 21.13 [X] Component Test Cl. 23 [X] Switch Overloading Cl. 23.1.10 [X] Supply Connections and External Flexible Cables and Cords [X] Cord Flexing/Cord Guard - Cl. 24.12 [X] Excessive Cord Bending - Cl. 24.13 [X] Strain Relief Abnormal - Cl. 24.14 [X] Terminals and External Conductors - Cl. 25 [X] Earthing Connections, Cl. 26 Resistance; Cl. 26.5 [X] Screw and Connections - Cl. 27 [X] Resistance to Heat, Fire, and Tracking Cl. 29 [X] Ball Pressure - Cl. 29.1 [] Resistant to Flame - Cl. 29.2 - rated HB. [] Resistant to Tracking Test - Cl. 29.3 [] Resistance to Rusting - Cl. 30.1 [] Resistance to Rusting - Cl. 30.1 [] Radiation, toxicity and similar hazards- Cl. 31

Only the following test were considered necessary.

[x] Abnormal test: Cl.18.10.4

This test was conducted in accordance with Cl. 18.10..4 Compliance is checked by operating the tool for 1 min, at a voltage equal to the rated voltage or the mean value of the voltage range, at no load with the electronic device short-circuited.

Component	Open / Short	Result
Triac (Tr1)	Short pin1 and pin2	Normal Operation
Diode (ZD1)	short	No Operation
Diode (D1)	short	No Operation
Diode (D3)	short	No Operation

Data Observation:										
During the test did the tool exhibit flame through existing openings? [] Yes [X] No										
Mechanical d	on against electric shock?	[] Yes [X] No								
Cl. Requirement – Test Result - Remark Verdict										
18.10.4	Abnormal test	See Data Observation	[x] P [] F [] N/A							

---End of Report---