



Foshan Ouli Electronic Co.,Ltd

Add: Building 9, No.115, Zhangcha Rd. 1st, Chancheng District, Foshan 528200
Tel: +86 757 8210 9070 Fax: +86 757 8210 9075

SPECIFICATION

Product: High Voltage Transformer

Model: DY-20WT-2

Spec: 440V60Hz Class:220

Client :

Compiled: Checked: Approved: Date:



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1. SCOPE

THIS SPECIFICATION APPLIES TO TRANSFORMER PART NO: DY-20WT-2 OR USING IN MICROWAVE OVEN WHICH IS MANUFACTURED BY .

2. APPLICABLE SAFETY STANDARD: IEC 60335-2-25 & IEC 60335-1.

3. APPEARANCE AND CONSTRUCTION:

- 3-1 APPEARANCE: TRANSFORMER SHALL BE FREE FROM SUCH DEFICIENCIES AS DEFORMATION, CRACK OR RUST IN APPEARANCE.
- 3-2 TYPE, DIMENSION AND MARKING: SEE ATTACHED CONSTRUCTION DRAWING
- 3-3 CLASSIFICATION OF TERMINAL: #250 FASTEN TABS & RECEPTACLES.

4. MECHANICAL PERFORMANCE

COMPRESSED STRENGTH OF TERMINALS: TERMINALS SHALL BE WITHSTAND WITHOUT BREAKING OR LOOSENING WHEN A STATIC LOAD OF 100N FOR 15 SECONDS IS APPLIED IN THE DIRECTION OF PULLING OUT TO THE TERMINALS.

5. ELECTRICAL PERFORMANCE

- 5-1 RATED PRIMARY VOLTAGE: AC 440V
- 5-2 RATED FREQUENCY: 60Hz
- 5-3 SECONDARY VOLTAGE:

CODE	NO-LOAD VOLTAGE (R.M.S)	DEVIATION
HIGH VOLTAGE (S1)	AC 2080V	±50V
FILAMENT VOLTAGE (S2)	AC 3.2V	±0.1V

- 5-4 NO-LOAD CURRENT:
NO-LOAD CURRENT SHALL BE LESS THAN 2.0A .
- 5-5 NO-LOAD WATTAGE LOSS:
NO-LOAD WATTAGE LOSS SHALL BE LESS THAN 100W.
- 5-6 DIELECTRIC STRENGTH AND INDUCED VOLTAGE TEST: TRANSFORMER SHALL BE WITHSTAND AS FOLLOWING STATEMENT

ITEM	STANDARD	MASS PRODUCTION
APPLIED POINT	APPLIED VOLTAGE(RMS) AND TIME	APPLIED VOLTAGE(RMS) AND TIME
PRIMARY WINDING-CORE FILAMENT WINDING-CORE FILAMENT WINDING-PRIMARY WINDING INDUCED VOLTAGE-TEST	50Hz, AC 1500V, 1 MINUTE 50Hz, AC 7500V, 1 MINUTE 50Hz, AC 7500V, 1 MINUTE 400Hz, AC 720V, 18 SECONDS	50Hz, AC 2000V, 3 SECONDS 50Hz, AC 10000V, 3 SECONDS 50Hz, AC 10000V, 3 SECONDS 400Hz, AC 720V, 3 SECONDS

5-7 INSULATION RESISTANCE:

INSULATION RESISTANCE BETWEEN EACH WINDING AND CORE EXCEPT SECONDARY WINDING AND CORE, SHALL BE MORE THAN 100MΩ MEASURED WITH DC 500V ISULATION RESISTANCE TESTER BEFORE LOADING.

5-8: DC.RESISTANCE AT 20°C:



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- (1) PRIMARY : $1.754 \pm 10\% \Omega$
- (2) SECONDARY : $48.9 \pm 10\% \Omega$

6. ENVIRONMENTAL PERFORMANCE.

- 6-1 HEAT RESISTANCE: IMMEDIATELY AFTER BEING PLACED IN A ROOM FOR 48 HOURS MAINTAINED AT 220°C AMBIENT TEMPERATURE, SHALL BE CONFORM WITH THE ABOVE PARAGRAPH 5-6 AND ALSO INSULATION SHALL BE MORE THAN $10\text{M}\Omega$.
- 6-2 MOISTURE RESISTANCE : IMMEDIATELY AFTER BEING PLACED A ROOM FOR 48 HOURS IN SUCH CONDITIONS THAT IS MAINTAINED AT 90-95% RELATIVE HUMIDITY AND $40 \pm 2^{\circ}\text{C}$ TEMPERATURE, AND WIPED THE DRIPS, TRANSFORMER SHALL BE CONFORM WITH THE ABOVE PARAGRAPH 5-6 AND ALSO INSULATION SHALL BE MORE THAN $10\text{M}\Omega$.

7. INSPECTION

- 7-1 100% INSPECTION ITEMS NO-LOAD CURRENT, NO-LOAD LOSS, SECONDARY OPEN VOLTAGE, ITEM 5-6 TEST, APPEARANCE AND CONSTRUCTION.
- 7-2 SAMPLING INSPECTION ITEMS THE ITEMS OF THE SAMPLING INSPECTION SHALL BE COIL RESISTANCE, INSULATION, DIMENSION AND AUDIBLE SOUND TEST, INCLUDING THE 100% INSPECTION ITEMS AS THE ABOVE PARAGRAPH 7-1.
- 7-3 THE SAMPLING INSPECTION DATA ACCORDING TO 7-2 AND 100% DIELECTRIC WITHSTAND TEST DATA SHALL BE SUBMITTED FOR EACH LOT. (N=5)

8. OTHERS.

- 8-1 AUDIBLE SOUND TEST/ WHEN APPLIED WITH 1.2 TIMES OF THE RATED PRIMARY VOLTAGE TRANSFORMER SHALL BE MAKE NO LOUDER SOUND THAN 50 db. AT THE DISTANCE OF 30cm FROM IT
- 8-2 INSULATION: CLASS R (220°C)

9. SPECIFICATION VERIFICATION

WHEN THE SPECIFICATION OF TRANSFORMER NEED TO BE VERIFIED IT SHOULD BE AGREED BY BOTH SIDES AND DECIDED IT, THEN PUT IT INTO EFFECT TO PRODUCTS.

10. ROHS

ALL MATERIAL OF HIGH VOLTAGE TRANSFORMER IS MET TO THE REQUIREMENTS OF ROHS



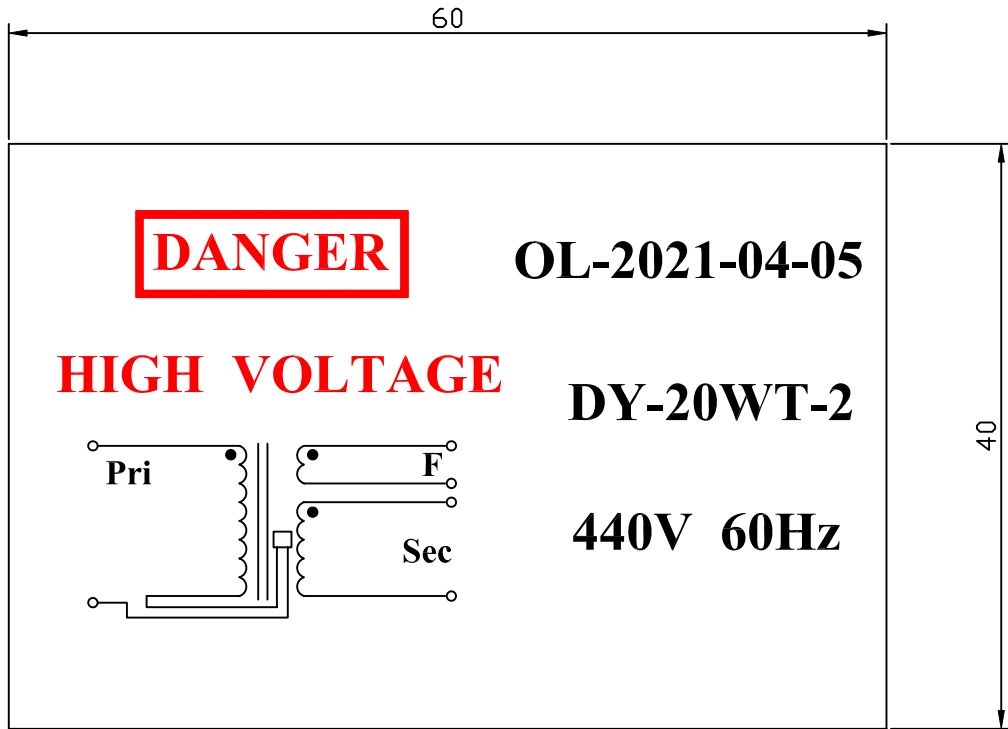
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DY-20WT-2 Material List

Sl.No.	Material	Qty	Specification	Insulation Class	Manufacturer	UL.No.	
1	Core	1	Laminated Electrical Steel 0.5mm thick	/	BaoSteel/ Ansteel	/	
2	Mounting Bracket	1	Steel 1.5 mm thick	/	Keyi	/	
3	Pass Core	2	Laminated Electrical Steel 0.5mm thick	/	Nanbei	/	
4	Pass core insulator	2	NOMEX/NMN #410/414 t=0.18	220°C	Du Pont	E34739 (R)	
5	Primary	Coil	1	GADWC CU	220°C	Jdrea	E223994
6		Insulator	2	NOMEX/NMN #410/414 t=0.18/0.25	220°C	Du Pont	E34739 (R)
7		Faston tab anchor board	1	NOMEX/NMN #410/414 t=0.38/0.25	220°C	Du Pont	E34739 (R)
8		Terminal	2	M5 Fork type	/	Ruisheng	/
9	Secondary	Coil	1	GADWC CU	220°C	Jdrea	E223994
10		Faston tab anchor board	1	NOMEX/NMN #410/414 t=0.38/0.25	220°C	Du Pont	E34739 (R)
11		Coil insulator	2	NOMEX/NMN #410/414 t=0.18/0.25	220°C	Du Pont	E34739 (R)
12		Coil end insulator	2	NOMEX/NMN #410/414 t=0.18/0.25	220°C	Du Pont	E34739 (R)
13		Coil mica paper	2	Mica t=0.25/0.30	220°C	Du Pont	E129729 (S)
14		Terminal	1	#187 copper	/	Ruisheng	/
15		Filament coil		Y-SRPW (Nickel plated on surface)	220°C	Qianlima	E204933
16		Filament coil flag terminal	2	250# Flag copper terminal	/	Zhucheng	E237058
17		Flag terminal tube	2	250# Flag tube	105°C	Zhucheng	/
18		Filament coil flag terminal	1	250# Flag terminal dual wire	/	Zhucheng	E237058
19	Label	1	Thermal transfer sticker	/	Sanli	/	
20	Varnish			220°C	Elantas	E314793	
21	Temperature fuse	1	184°C	/	/	/	



Technical Requirement

1. The words "DANGER HIGH VOLTAGE" and the enclosing range in the label are red, the rest of fonts are black, the background color is white
2. The font size is shown in the figure, and keep blank area below
3. ALL fonts are printed, nice look layout and accurate text

Material	Stickers	DRAWN BY	DESIGNED BY	CHECKED BY	APPROVED BY	Parts	DWG No.
		OuXiaoying	Yang Tao	Xiao Minliang	Tian Shenli	Label	

