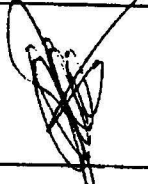
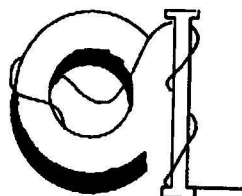


SPECIFICATION FOR APPROVAL

CUSTOMER : HARTONO ISTANA TEKNOLOGI
CUSTOMER PART NO. : TN1A30222218-02
DESCRIPTION : POWER TRANSFORMER
SPECIFICATION NO. : EI66x36/2P/2S/0081
ISSUE DATE : DECEMBER 17, 2003

PREPARED	CHECKED	QC PASSED	APPROVED
			
SUDARMI	RUSLAN	ROBBY L.	ARGO B.



PT. CIPTA COILINDO

OFFICE & FACTORY :

JL. PERANCIS, KOMPLEK PERGUDANGAN PANTAI INDAH DADAP
BLOK G NO. 6 TANGERANG 15211, INDONESIA

TEL : 62-21 55954949

FAX : 62-21 5550621

E-MAIL : ptcipta@cipta.co.id

1. Type : EIB03-EI66x36
2. Surface : Damage, rusting, foam are not permitted
3. Strain Relief Test : Lead must withstand a pull 0.75 kg for 15 seconds
4. Electrical characteristics :
 - 4.1. Primary rated voltage and frequency

Terminal	Input Voltage	Frequency
Red - Black	220 VAC	50 Hz.

- 4.2. Secondary rated voltage & regulation

Input	Terminal	Rated Voltage	Rated Current	No load Voltage
Input 220V AC (Red - Black)				
220 V	Yellow - White	12.00 VAC $\pm$ 5%	2.4 A AC	14.00 VAC $\pm$ 5%
220 V	White - Yellow	12.00 VAC $\pm$ 5%	2.4 A AC	14.00 VAC $\pm$ 5%
220 V	Red - Blue	5.00 VAC $\pm$ 5%	0.05 A AC	5.00 VAC $\pm$ 5%

- 4.3. Exciting current at 50 Hz.

Terminal	Input Voltage	Exciting current
Red - Black	220 VAC	40 mA Max

- 4.4. Primary load current

Terminal	Load current	test condition
Red - Black	360 mA Max	Sec. 1 & 2 Load

- 4.5. Withstand Voltage & Insulation Resistance

Terminal	Withstand Voltage	Insulation Resistance
Primary to Core	3 KV AC, 3 mA, 50 Hz, 1 Minute	500 V DC, 100 M Ω Min
Primary to Secondary		
Secondary to Core		

- 4.7 Temperature Rise

Less than 75°C for 100% rated load continued for 5 hours.

- 4.8 Power Efficiency (%)

$$\eta = \frac{P_{\text{output}}}{P_{\text{input}}} \times 100\% = 75\% \text{ Min}$$

- 4.9 Humidity temperature test

Chamber 40 $\pm$ 2°C, 90~95%, 120 jam di keluarkan dari chamber segera (sebelum 1 menit)
di uji 3 KV AC (5 mA)



PT. CIPTA COILINDO

DESCRIPTION **POWER TRANSFORMER**

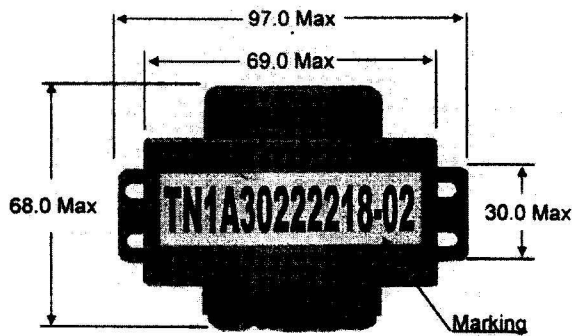
CUST. PART NO. **TN1A30222218-02**

SPECIFICATION NO. **EI66x36/2P/2S/0081**

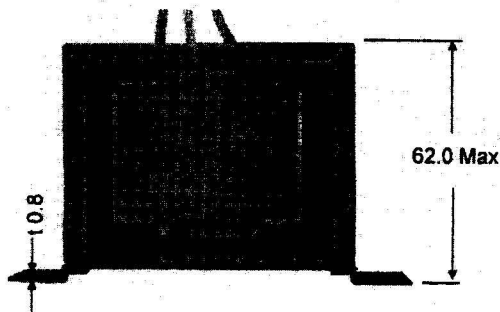
FILE **218-02-2** DATE **DECEMBER 17, 2003**

SHEET
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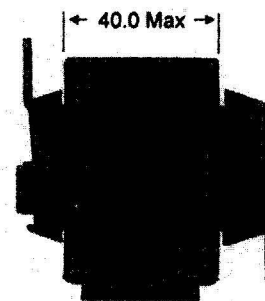
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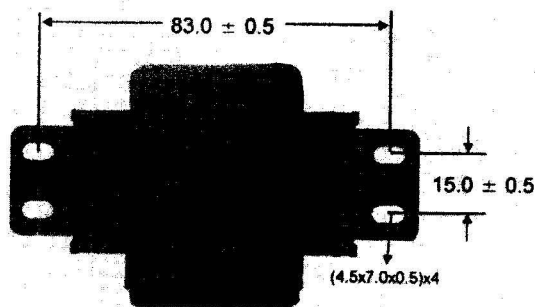
TOP VIEW



FRONT VIEW



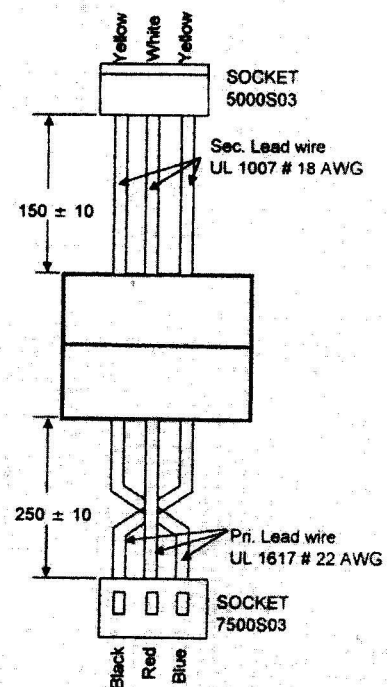
SIDE VIEW



BOTTOM VIEW

6. SCHEMATICS

Black	Yellow
NP1	NS2
AC 220V / 50Hz	12.00 V AC ±5% / 2.4 A
Red	White
NP2	NS1
AC 225V / 50Hz	12.00 V AC ±5% / 2.4 A
Blue	Yellow



PT. CIPTA COILINDO

DESCRIPTION :

POWER TRANSFORMER

CLUST. PART NO.

TN1A30222218-02

SPEC. NO

EI 66x36/2P/2S/0081

FILE

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DATE

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7 MATERIAL LIST

NO.	ITEM	MATERIAL	MANUFACTURE	TYPE	UL NO.
1	BOBBIN	NYLON 66 94V-0	EI DUPONT	FR101 FR530	E 41938 (M)
2	PRI. LEAD WIRE UL 1617#22 AWG	BLACK, RED, BLUE	PACIFIC	VW-1, 600V 105°C	F41396 (S)
	SEC. LEAD WIRE UL 1007#18 AWG	WHITE, YELLOW	SUMITOMO HITACHI	VW-1, 600V 105°C	E41105 (S) E41447 (S)
			WONDERFUL	VW-1, 600V 105°C	E77981 (S)
3	CROSS OVER INSULATION	ACETATE FILM ADHESIVE TAPE 0.18t	MINNESOTA 3M	#44	E17385 (N)
			CHYUN YIH	AC403-2	E 81174 (S)
			FOUR PILLARS	AC05	E 50292 (S)
4	TAPE INSULATION	POLYESTER FILM ADHESIVE TAPE 0.055t	MINNESOTA 3M	1318	E 17385 (N)
			CHYUN YIH	207F	E 81174 (S)
			FOUR PILLARS	35660	E 50292 (S)
5	OUT SIDE WRAPPING		FOUR PILLARS	35660	E 50292 (S)
6	CABLE HOLDER TAPE	NOMEX ADHESIVE TAPE 0.05t	FOUR PILLARS	NM 130°C	E 50292 (S)
7	CABLE HOLDER	PRESS BOARD 0.25t	ABEKAWA	ADONIS	E 58317 (S)
8	PAPER INSULATION		PAPER		
9	PRI. / SEC. WINDING	POLYURETHANE ENAMELED COPPER WIRE Ø0.25 mm Ø0.70 mm	PACIFIC	UEW - 2	E 84081 (S)
			WAN MON	UEW - 2	E104091 (S)
			HUNG HSANG	UEW - 2	E158025 (S)
			HITACHI	UEW - 2	E 62342 (S)
10	CORE	SILICON STEEL 0.5mm	NIPPON STEEL		
			KAWASAKI		
11	KLEM	PLATE STEEL t=0.8 mm	NIPPON STEEL		
			KAWASAKI		
12	VARNISH		JOHN C. DOLPII RIPLEY RESIN	BC-346A 468-2-HRI	E51047 (M) E81777 (N)
13	TERMINAL	COPPER ALLOG - TIN	LEOCO	3979TCB0000 OR EAUVALENT	E 82349
14	HOUSING	NYLON 6/6	LEOCO	7500S03, 5000S03 OR EAUVALENT	E82349



PT. CIPTA COILINDO

PART NAME :

POWER TRANSFORMER

CUST PART NO.

TN1A30222218-02

SPEC NO.

EI66x36/2P/2S/0081

FILE :

218-02-4

DATE :

DECEMBER 17, 2013

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TEST DATA

SAMPLE NUMBER			SAMPLE 1	SAMPLE 2	SAMPLE 3
PRIMARY VOLTAGE	UNIT	SPEC	220	220	220
PRIMARY1 RESISTANCE	Ω	BLACK-RED	56.75	56.77	56.89
SECONDARY 1 RESISTANCE	Ω	YLW-WHT	0.451	0.446	0.448
SECONDARY 2 RESISTANCE	Ω	WHT-YLW	0.506	0.499	0.502
PRIMARY 2 RESISTANCE	Ω	RED-BLUE	1.567	1.573	1.576
PRIMARY EXCITING CURRENT	mA		21.4	21.40	22.3
PRI. LOAD CURRENT(SEC.1&2 LOAD)	mA		331.0	331.0	332.0
S E C 1	NO LOAD VOLTAGE (AC)	V	YLW-WHT	14.39	14.38
	LOADED AT 2.4 A (AC)	V		12.05	12.03
	NO LOAD VOLTAGE (DC)	V			
	LOADED AT A (DC)	V			
S E C 2	NO LOAD VOLTAGE (AC)	V	WHT-YLW	14.39	14.38
	LOADED AT 2.4 A (AC)	V		11.90	11.90
	NO LOAD VOLTAGE (DC)	V			
	LOADED AT A (DC)	V			
N P 2	NO LOAD VOLTAGE (AC)	V	RED-BLUE	5.15	5.15
	LOADED AT 0.050 A (AC)	V		5.04	5.05
	NO LOAD VOLTAGE (DC)	V			
	LOADED AT A (DC)	V			
WITHSTAND VOLTAGE 50 Hz CUT OFF CURRENT 3.0mA ; 60 SEC.	AC 3.0 KV	PRIMARY TO SECONDARY	PASS	PASS	PASS
	AC 3.0 KV	PRIMARY TO CORE	PASS	PASS	PASS
	AC 3.0 KV	SECONDARY TO CORE	PASS	PASS	PASS
INSULATION RESISTANCE BETWEEN WINDING TO WINDING TO CORE IS MORE THAN 100 M Ω MIN FOR DC 500 VOLTAGE		PRIMARY TO SECONDARY	PASS	PASS	PASS
		PRIMARY TO CORE	PASS	PASS	PASS
		SECONDARY TO CORE	PASS	PASS	PASS

PREPARED	DESIGNED	CHECKED	APPROVED	DESCRIPTION	POWER TRANSFORMER	
				CUST PART NO.	TN1A30222218-02	
SUDARMI	OKANI	RUSLAN	ARGO B.	SPEC. NO.	EI66x36/2P/2S/0081	
PT. CIPTA COILINDO				FILE NAME	BOM-218-02.XLS	SHEET
				DATE	DECEMBER 17, 2003	----