

ABNORMAL TEST RESULTOF MODEL MMB50U-5/MMB50A-5

DRAWING NO.: BEE-0016

DATE: September 7, 1987

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TESTING EQUIPMENT:

DC Current Meter --- YEW (Yokogawa Electric Works Ltd.)
TYPE 2051 Class 1.0

AC Voltage Meter --- YEW
TYPE 2052 Class 1.5

Digital Multimeter --- HP (Hewlett Packard)
3465A

Digital AC Meter --- YEW
TYPE 2504

ABNORMAL TEST OF MODEL MMB50U-5/MMB50A-5

OPEN TEST RESULT

	Component	Comment	Output Voltage (V)	Input Current (A)
1	TR302 G	No ourput voltage of AVR1. TR302(G-D) and D304 shorted.	12.0 12.0 ↓ ↓ 0 12.0	0.77 ↓ 0.30
2	TR302 D	No output voltage of AVR1.	12.0 12.0 ↓ ↓ 0 12.0	0.77 ↓ 0.28
3	TR302 S	No output voltage of AVR1.	12.0 12.0 ↓ ↓ 0 12.0	0.77 ↓ 0.29
4	TR402 G	No output voltage of AVR2.	12.0 12.0 ↓ ↓ 12.0 0	0.77 ↓ 0.51
5	TR402 D	No output voltage of AVR2.	12.0 12.0 ↓ ↓ 12.0 0	0.77 ↓ 0.51
6	TR402 S	No output voltage of AVR2.	12.0 12.0 ↓ ↓ 12.0 0	0.77 ↓ 0.52
7	SS501	No output voltage of all. Fuse (F101) was blown out. TR302(G-D), D304 and ZD302 shorted.	12.0 12.0 ↓ ↓ 0 0	0.77 ↓ 0
8	SS601	No output voltage of AVR2. TR302(G-D-S), D401 and ZD402 shorted.	12.0 12.0 ↓ ↓ 12.0 0	0.77 ↓ 0.52

ABNORMAL TEST OF MODEL MMB50U-5/MMB50A-5

SHORT TEST RESULT

	Component	Comment	Output Voltage (V)	Input Current (A)
1	TR302 G - S	No output voltage of AVR1.	12.0 12.0 ↓ ↓ 0 12.0	0.77 ↓ 0.27
2	TR302 G - D	No output voltage of all. Fuse(F101) was blown out. ZD302 shorted	12.0 12.0 ↓ ↓ 0 0	0.77 ↓ 0
3	TR302 D - S	No output voltage of all. Fuse(F101) was blown out. D304 opened. ZD302 shorted.	12.0 12.0 ↓ ↓ 0 0	0.77 ↓ 0
4	TR402 G - S	No output voltage of AVR2.	12.0 12.0 ↓ ↓ 12.0 0	0.77 ↓ 0.52
5	TR402 G - D	No output voltage of all. Fuse(F101) was blown out. ZD402 shorted.	12.0 12.0 ↓ ↓ 0 0	0.77 ↓ 0
6	TR402 D - S	No output voltage of all. Fuse(F101) was blown out. ZD402 shorted.	12.0 12.0 ↓ ↓ 0 0	0.77 ↓ 0
7	T301 1 - 3	No output voltage of AVR1. TR302 and D304 opened. ZD302 shorted.	12.0 12.0 ↓ ↓ 0 12.0	0.77 ↓ 0.30
8	T301 9, 10 - 11, 12	Output voltage of AVR1 decreased.	12.0 12.0 ↓ ↓ 0.1 12.0	0.77 ↓ 0.30
9	T401 1 - 3	No output voltage of AVR2. TR402 opened. D401 and ZD402 shorted.	12.0 12.0 ↓ ↓ 12.0 0	0.77 ↓ 0.52
10	T401 9, 10 - 11, 12	Output voltage of AVR2 decreased, and after 80 seconds, no output. TR402 opened. D401 and ZD402 shorted.	12.0 12.0 ↓ ↓ 12.0 0	0.77 ↓ 0.53
11	SS501	No output voltage of AVR1.	12.0 12.0 ↓ ↓ 0 12.0	0.77 ↓ 0.30

