

1. MODEL FBDC12H7P-949

2. RATING

2.1 VOLTS 12VDC  
2.2 WATTS 8.2W  
2.3 CURRENT 0.68A  
2.4 PHASE 1  
2.5 POLES 4  
2.6 DUTY CYCLE CONT.

3. AIR PERFORMANCE(DOUBLE CHAMBER METHOD)

3.1 MAX. STATIC PRESSURE 220Pa(0.884inchH<sub>2</sub>O)MIN. (AT RATED VOL.)  
(270Pa(1.085inchH<sub>2</sub>O)AV.)  
3.2 MAX. AIR FLOW 0.65m<sup>3</sup>/min(23.0CFM) MIN. (AT RATED VOL.)  
(0.75m<sup>3</sup>/min(26.5CFM)AV.)

4. ELECTRICAL PERFORMANCE

4.1 ROTATION SPEED 3350min<sup>-1</sup>(r.p.m.)MIN. (AT RATED VOL. FREE AIR)  
(3700min<sup>-1</sup>(r.p.m.)AV.)  
4.2 CURRENT 0.800A MAX. (AT RATED VOL. FREE AIR)  
(0.680A AV.)  
4.3 LOCKED CURRENT 1.900A MAX. (AT RATED VOL.)  
(1.600A AV.)  
4.4 INSULATION CLASS A:IN CASE OF UL CLASS  
4.5 INSULATION RESISTANCE 10M<sup>Ω</sup> MIN. (AT 500VDC )  
4.6 DIELECTRIC STRENGTH 500VAC FOR ONE MINUTE  
OR 600VAC FOR ONE SECOND  
(BETWEEN LEADS AND SHAFT CUT OFF CURRENT 5mA)

5. THE OTHERS

5.1 APPLICABLE VOLTAGE RANGE 7.2~13.8VDC  
5.2 OPERATING ENVIRONMENT RANGE -20~+60℃  
(90% RELATIVE HUMIDITY MAX. NON CONDENSATION)  
5.3 STORAGE TEMPERATURE RANGE -20~+70℃  
(90% RELATIVE HUMIDITY MAX. NON CONDENSATION)  
5.4 NOISE LEVEL 56dB(A) MAX. (AT RATED VOL. FREE AIR FRONT 1m)  
(52dB(A) AV.)  
5.5 APPEARANCE HOUSING :PBT/ABS RESIN(BLACK)  
IMPELLER:PBT/ABS RESIN(BLACK)  
5.6 BEARING BALL BEARING  
5.7 EXPECTED LIFE 70,000 HOURS(AT RATED VOL. +20℃ L<sub>10</sub>LIFE)  
30,000 HOURS(AT RATED VOL. +60℃ L<sub>10</sub>LIFE)  
5.8 TEMPERATURE RISE 50K MAX. (AT RATED VOL. FREE AIR)  
(BY THERMO-COUPLE METHOD)  
5.9 PROTECTION CURRENT SHUT DOWN BY LOCKED ROTOR DETECT  
(AUTO RESET)  
THE FAN SHALL NOT BE DAMAGED WHEN THE FAN LOCKED  
AT RATED VOLTAGE UNDER 24HOURS CONDITION.  
5.10 REVERSE POLARITY PROTECTION  
THE FAN SHALL NOT BE DAMAGED WHEN THE LEAD WIRES  
CONNECTED IN REVERSE POLARITY.  
5.11 MOUNTING SCREW FORCE 0.49N·m(5kgf·cm)MAX. WITH M4 SCREWS  
5.12 SAFETY STANDARD UL (File No.E48889)  
CSA(File No.LR49399) (JAPAN)  
CSA(File No.LR108118) (INDONESIA)  
TUV(File No.R9451586)  
5.13 MASS 0.13kg(REF.)

6. SENSOR PULSE OUTPUT TYPE (DWG.UE03581)

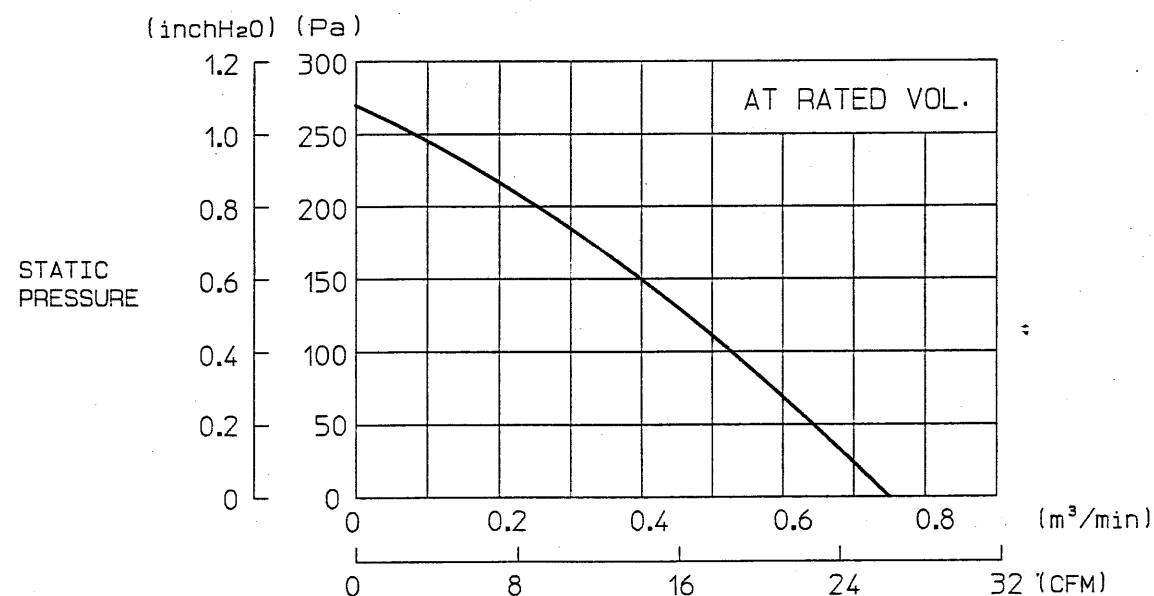
7. NOTE

7.1 APPLICATIONS BLOWING AIR OF INDOOR USE.  
7.2 APPLICATION ENVIRONMENT  
PLEASE KEEP THE BLOWER BODY PLASTIC PORTION FREE FROM OIL,  
GREASE, CHEMICALS AND POISONOUS GAS.  
THIS BLOWER IS NOT PROVIDED ANY WATER-PROOF NOR DUST-PROOF  
DEVICE. PLEASE AVOID APPLY IN POSSIBLE VAPOUR CONDENSATION  
OR DUSTY ENVIRONMENT.

7.3 OTHERS

PLEASE HANDLE CAREFULLY. AND DO NOT APPLY MORE THAN  
19.6N(2kgf) TO THE LEAD CONNECTION POINTS.  
WHEN ANY OF NEW ITEMS OTHER THAN SHOWN HERE ARE REQUIRED,  
PLEASE LET US KNOW BEFOREHAND.  
DC BLOWER HAS POSSIBILITY TO GENERATE SURGE VOLTAGE EVEN AT  
POWER SUPPLY IS OFF. SO WHEN POWER SUPPLY IS TURNED ON/OFF  
(MECHANICAL, ELECTRICAL), OR WHEN DC BLOWER IS INSTALLED IN  
A SENSITIVE AND HIGHLY RELIABLE EQUIPMENT, INSERT A DIODE  
IN PARALLEL TO POWER SUPPLY.  
THE POWER SUPPLY MUST BE A PURE DC. IF THE SUPPLY  
CONTAINS ANY RIPPLE, THE CHARACTERISTICS AND THE  
RELIABILITY CAN NOT BE GUARANTEED AND CAN BE DETERIORATED.  
THE CHARACTERISTIC VALUES EXCEPT FOR LIFE EXPECTANCY ARE  
NORMAL TEMPERATURE AND NORMAL HUMIDITY.

THE NUMERIAL VALUE MENTIONED ABOVE IS JUST SINGLE  
BLOWER'S PERFORMANCE.



AIR PERFORMANCE (REF.)

SHT. No. 1/2

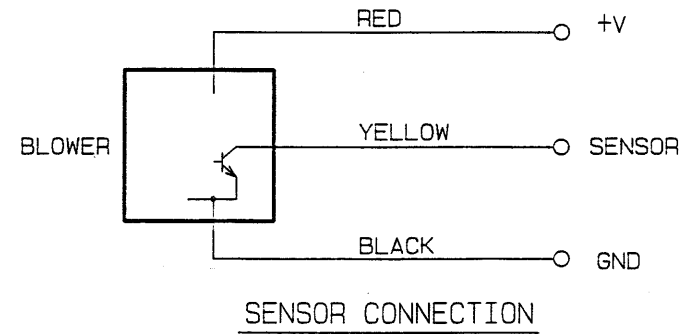
入庫 REGISTERED	設計 DESIGNED	M. Okabe	Dec-22-04	尺 度 SCALE	外形図 OUTLINE DC FB BLOWER III FBDC12H7P-949
製図 DRAWN	M. Okabe	Dec-22-04	N. T. S.		
審査 CHECKED	R. Furukawa	Dec-22-04	DWG. SIZE		
承認 APPROVED	H. Kobayashi	Dec-23-04	A3		
標準 STANDARD	図面登録 NUMBER	3角法 THIRD ANGLE PROJECTION	日本サーボ (株) Japan Servo Co., Ltd.	図番 DWG. NO.	AS49327

記号 SYM.	来 歴 REVISIONS	年月日 DATE	訂 正 REV'D	審 査 CHKD.

F E D C B A

SHT. No. 1/2

△				
△				
△				
△				
△				

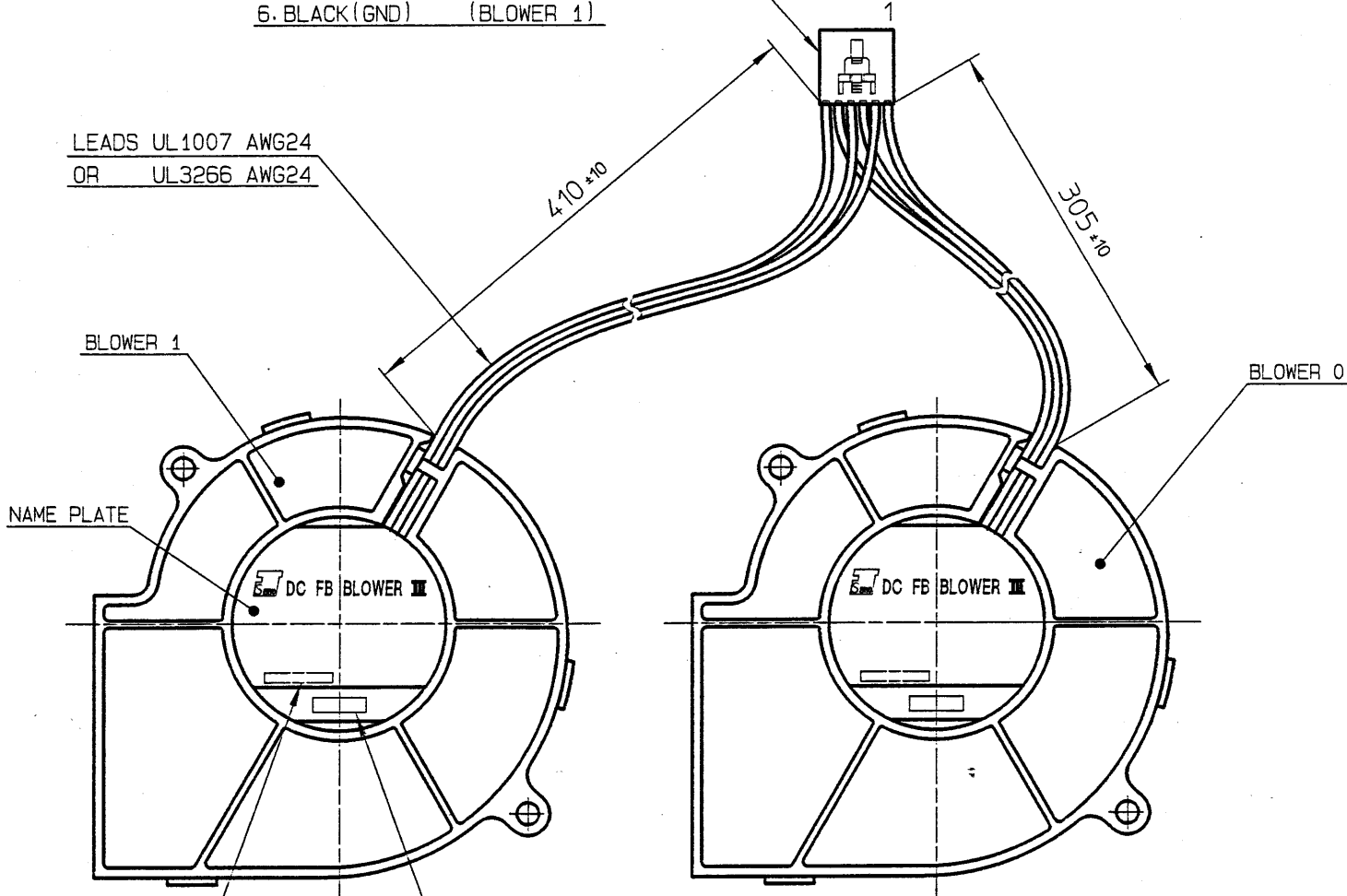
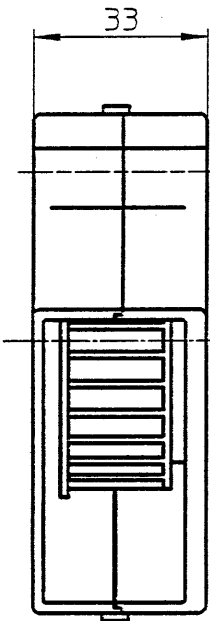
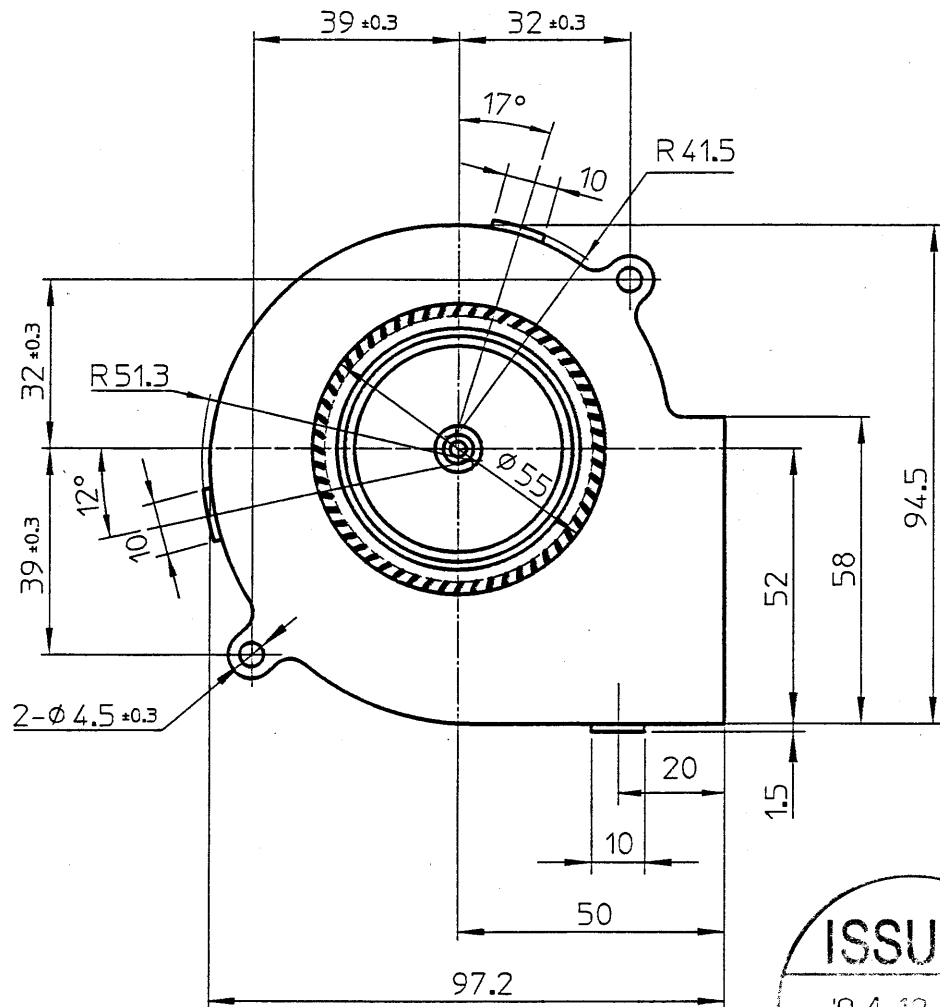


CONNECTOR: MOLEX 50-57-9406  
CONTACT : MOLEX 16-02-0087

1. RED(+V)	(BLOWER 0)
2. RED(+V)	(BLOWER 1)
3. YELLOW(SENSOR)	(BLOWER 0)
4. YELLOW(SENSOR)	(BLOWER 1)
5. BLACK(GND)	(BLOWER 0)
6. BLACK(GND)	(BLOWER 1)

Sun Microsystems

LEADS UL1007 AWG24  
OR UL3266 AWG24



COUNTRY OF ORIGIN  
MADE IN JAPAN OR  
MADE IN INDONESIA

ISSUED  
'04.12.27  
JAPAN SERVO  
CO.,LTD.

SHT. No. 2/2

SHT. No. 1/2

記号 SYM.	来 歴 REVISIONS	年月日 DATE	訂 正 REV'D	審 査 CHK'D

DIMENSIONS IN mm  
UNTOLERANCED DIMENSIONS ±1

入庫 REGISTERED	設計 DESIGNED	M. Okabe	Dec-22-04	尺 度 SCALE	外形図 OUTLINE DC FB BLOWER III
	製図 DRAWN	M. Okabe	Dec-22-04	N. T. S.	
	審査 CHECKED	R. FURUKAWA	Dec-22-04	DWG. SIZE	FBDC12H7P-949
	承認 APPROVED	H. Kobayashi	Dec. 23, '04	A3	
標準 STANDARD	図面登録 NUMBER	3角法	日本サーボ (株) Japan Servo Co., Ltd.	図番 DWG. NO.	AS49327
	THIRD ANGLE PROJECTION				