

1. MODEL KLDC48B4FPL-930 (NOKIA PN K106701064)

2. RATING

- 2.1 VOLTS 48VDC
- 2.2 WATTS 3.4W
- 2.3 CURRENT 0.07A
- 2.4 PHASE 1
- 2.5 POLES 4
- 2.6 DUTY CYCLE CONT.

7.4 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 FAN HAS POSSIBILITY TO GENERATE SURGE VOLTAGE EVEN AT POWER SUPPLY IS OFF. SO WHEN POWER SUPPLY IS TURNED ON/OFF (MECHANICAL-ELECTRONICAL), OR WHEN DC FAN 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.

3. AIR PERFORMANCE (DOUBLE CHAMBER METHOD)

- 3.1 MAX. STATIC PRESSURE 44.1Pa (0.177inchH₂O) MIN. (AT RATED VOL.)
- 3.2 MAX. AIR FLOW 1.3m³/min (45.9CFM) MIN. (AT RATED VOL.)

4. ELECTRICAL PERFORMANCE

- 4.1 ROTATION SPEED 3000min⁻¹(n.p.m.) MIN. (AT RATED VOL. FREE AIR)
- 4.2 CURRENT 0.09A MAX. (AT RATED VOL. FREE AIR)
- 4.3 LOCKED CURRENT 0.25A MAX. (AT RATED VOL.)
- 4.4 INSULATION CLASS A: IN CASE OF UL CLASS
- 4.5 INSULATION RESISTANCE 10M Ω 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 24-55.2VDC
- 5.2 OPERATING ENVIRONMENT RANGE -20-+70 $^{\circ}$ C (90% RELATIVE HUMIDITY MAX. NON CONDENSATION)
- 5.3 STORAGE TEMPERATURE RANGE -40-+70 $^{\circ}$ C (90% RELATIVE HUMIDITY MAX. NON CONDENSATION)
- 5.4 NOISE LEVEL 44dB(A) MAX. (AT RATED VOL. FREE AIR FRONT 1m) (40dB(A) AV.)
- 5.5 APPEARANCE VENTURI :PBT/ABS RESIN(BLACK) PROPELLER:PBT/ABS RESIN(BLACK)
- 5.6 BEARING BALL BEARING
- 5.7 EXPECTED LIFE 70,000 HOURS (AT RATED VOL. +20 $^{\circ}$ C L₀LIFE) 40,000 HOURS (AT RATED VOL. +60 $^{\circ}$ C L₀LIFE)
- 5.8 TEMPERATURE RISE 50K MAX. (AT RATED VOL. FREE AIR) (BY RESISTANCE METHOD)
- 5.9 PROTECTION CURRENT SHUT DOWN BY LOCKED ROTOR DETECT (AUTO RESET)
- 5.10 SAFETY STANDARD UL (File No. E48889) CSA (File No. LR49399) (JAPAN) CSA (File No. LR108118) (INDONESIA) TUV (File No. R9451586)
- 5.11 MASS 0.14 kg (REF.)

6. SENSOR PULSE OUTPUT TYPE (DWG. UE03978)

7. NOTE

- 7.1 APPLICATIONS BLOWING AIR OF INDOOR USE.
- 7.2 APPLICATION ENVIRONMENT

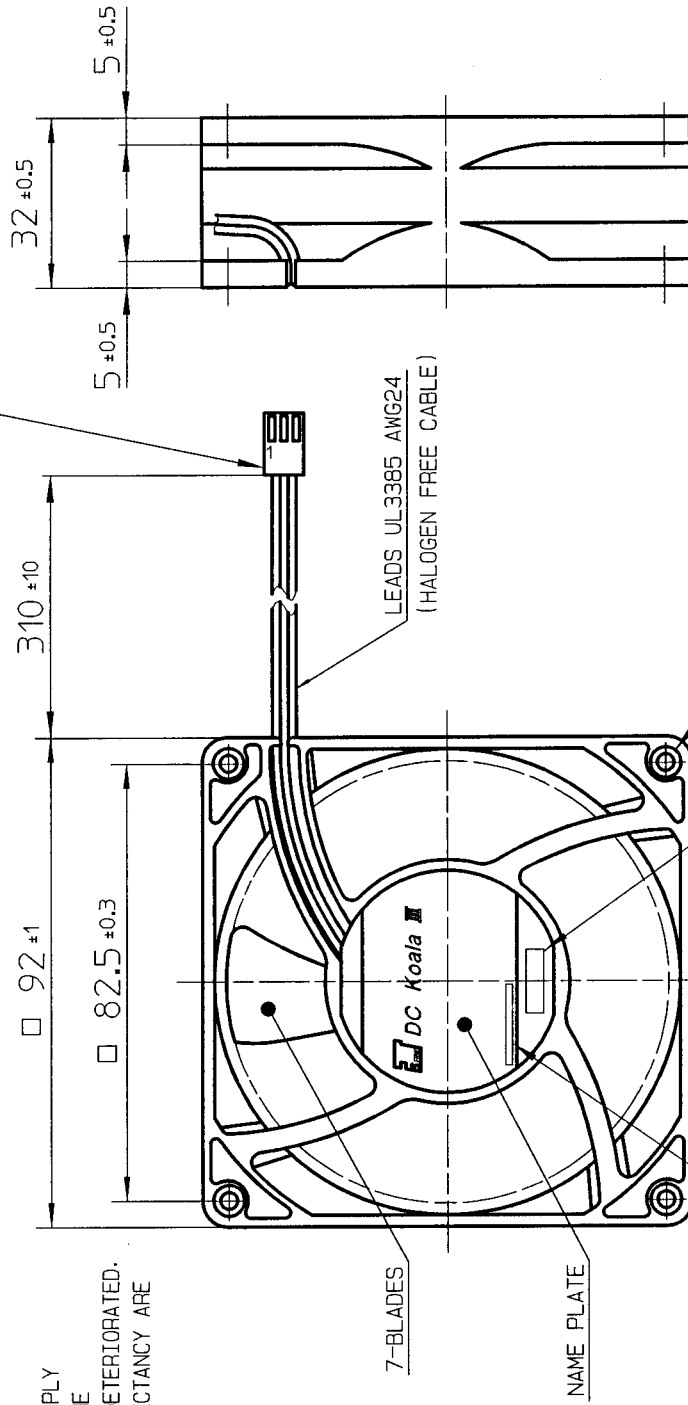
PLEASE KEEP THE FAN BODY PLASTIC PORTION FREE FROM OIL, GREASE, CHEMICALS AND POISONOUS GAS. THIS FAN IS NOT PROVIDED ANY WATER-PROOF NOR DUST-PROOF DEVICE. PLEASE AVOID APPLY IN POSSIBLE VAPOR CONDENSATION OR DUSTY ENVIRONMENT.

7.3 FASTENING TORQUE FOR M4 3 N·m

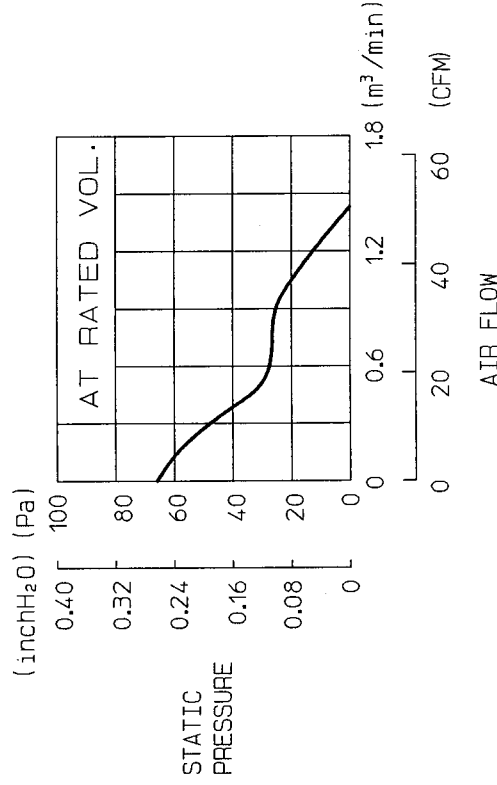
NOKIA

CONNECTOR: MOLEX 22-01-2035
CONTACT : MOLEX 08-55-0101
OR 08-55-0102

- 1. YELLOW (SENSOR)
- 2. RED (+48V)
- 3. BLACK (GND)



DATE CODE
1 L 05
YEAR] [DAY (01~31)
LAST No. OF MONTH A-JAN.
YEAR (2001) B-FEB.
L-DEC.



DIMENSIONS IN mm

記号 SYM.	来 REVISIONS	年 DATE	訂 REV.	正 CHKD.	審 査
1		02-04-10	Y. Kasukawa	R. Furukawa	
2		02-03-25	Y. Kasukawa	R. Furukawa	
3		02-01-2035	Y. Kasukawa	R. Furukawa	

入庫 REGISTERED	設計 DESIGNED	Y. Kasukawa	Mar-11-02	尺度 SCALE	外形図 OUTLINE	DC KOALA III
入庫 02.03.12	製図 DRAWN	Y. Kasukawa	Mar-11-02			
標準 STANDARD	審査 CHECKED	R. Furukawa	Mar-12-02	N. T. S	KLDC48B4FPL-930	
	承認 APPROVED	R. Furukawa	Mar-12-02			
	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.				
		US11433				
		B				