

	F	E	D	C	B	A																																										
1. MODEL	KLDC12Z7P																																															
2. RATING	2.1 VOLTS 12VDC 2.2 WATTS 4 W 2.3 CURRENT 0.34A 2.4 PHASE 1 2.5 POLES 4 2.6 DUTY CYCLE CONT.																																															
3. AIR PERFORMANCE (DOUBLE CHAMBER METHOD)	3.1 MAX. STATIC PRESSURE 68.6Pa (0.276inchH ₂ O) MIN. (AT RATED VOL.) 3.2 MAX. AIR FLOW 1.55m ³ /min (54.7CFM) MIN. (AT RATED VOL.)																																															
4. ELECTRICAL PERFORMANCE	4.1 ROTATION SPEED 3550min ⁻¹ (r.p.m.) MIN. (AT RATED VOL. FREE AIR) 4.2 CURRENT 0.38A MAX. (AT RATED VOL. FREE AIR) 4.3 LOCKED CURRENT 1.15A 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 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 46dB(A) MAX. (AT RATED VOL. FREE AIR FRONT 1m) (42dB(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℃ L ₁₀ LIFE) 40,000 HOURS (AT RATED VOL. +60℃ L ₁₀ LIFE) 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 MOUNTING SCREW FORCE 0.98N·m (10kgf·cm) MAX. WITH M4 SCREWS 5.11 SAFETY STANDARD UL (File No. E48889) CSA (File No. LR49399) (JAPAN) CSA (File No. LR108118) (INDONESIA) TUV (File No. R9451586) 5.12 MASS 0.14kg (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 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 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.																																															
	REFERENCE DWG. MANUFACTURE LOCATION MADE IN JAPAN OR MADE IN INDONESIA 7-BLADES DC Koala III LEADS UL1007 AWG24 RED (+12V) BLACK (GND) YELLOW (SENSOR) NAME PLATE DATE CODE YEAR 2002 MONTH A-JAN DAY 01-31 LAST No. OF YEAR (2002) MONTH B-FEB. DAY L-DEC. 4-φ4.5±0.3 ROTATION AIR FLOW STATIC PRESSURE AIR FLOW AIR PERFORMANCE (REF.) SENSOR CONNECTION DIMENSIONS IN mm																																															
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REFERENCE DWG.

1/1

REMARK

UE03581D

SENSOR SPECIFICATION

DC 12V, DC 24V(PULSE OUTPUT TYPE:MODEL CODE:P)

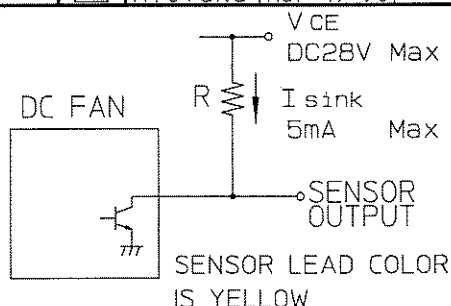
△			
△	M. Jin	Jul-27-07	07-1917
△	S. Kaneko	Mar-06-07	07-0586
△	M. Kawakami	Feb-24-00	
△	K. Otaka	Mar-19-98	

1. SENSOR TYPE PULSE OUTPUT TYPE

2. OUTPUT OPEN COLLECTOR

3. SPECIFICATION(ROOM TEMPERATURE)

- V_{CE} DC28V max
- $V_{CE(sat)}$ 0.4V max
- I_{sink} 5mA max



4. SENSOR SEQUENCE

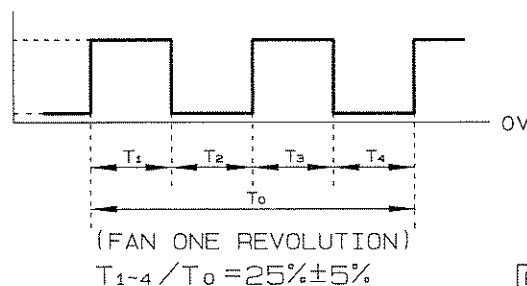
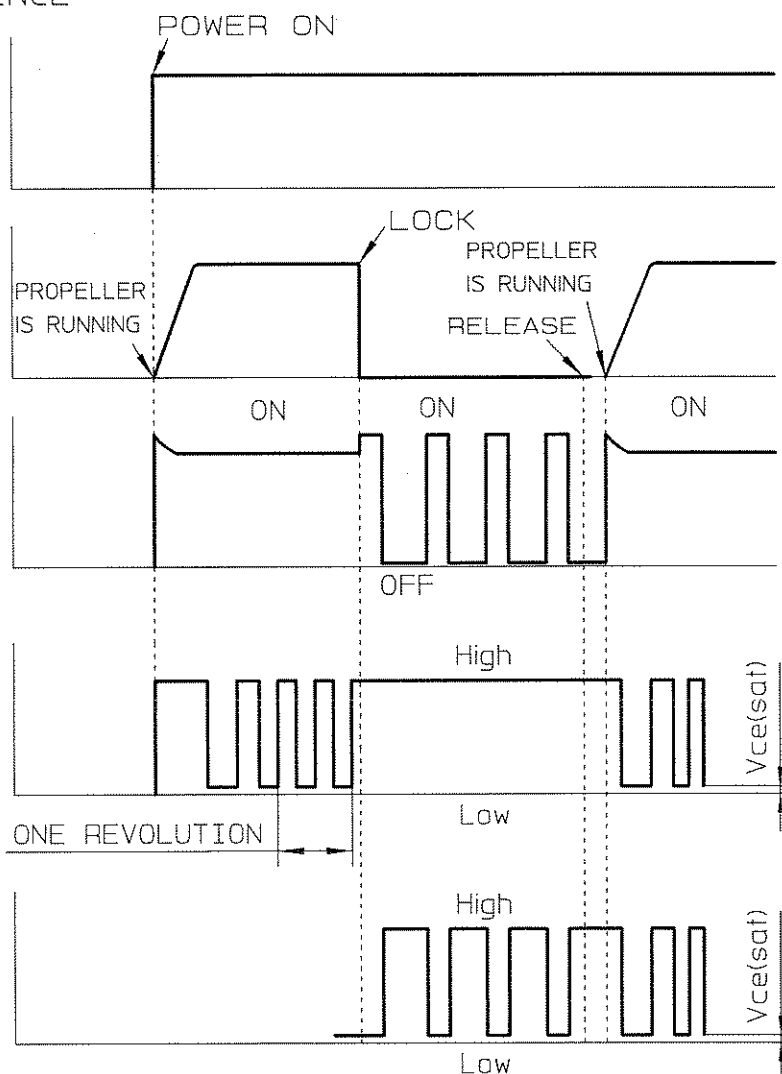
INPUT POWER

min⁻¹(R.P.M)

CURRENT

SENSOR OUTPUT
(CASE1)

(CASE2)



FU1433

CONTENTS OF A CHANGE ARE MENTIONED IN ECN FROM MAR-06-07.

△	ADD:SI UNIT.	Feb-24-00	M. Kawakami	Y. Nagata
△	ADD:3. ROOM TEMPERATURE.	Mar-19-98	K. Otaka	H. Kobayashi
記号	来 歴	年月日	訂 正	審 査
SYM.	REVISIONS	DATE	REV.D	CHK.D

REGISTERED



DESIGNED	K. Otaka	Feb-15-95
CHECKED	K. Katoh	Aug-01-07
APPROVED	M. Ohta	Aug-03-07

Japan Servo Co., Ltd.

DWG.NO.

UE03581D