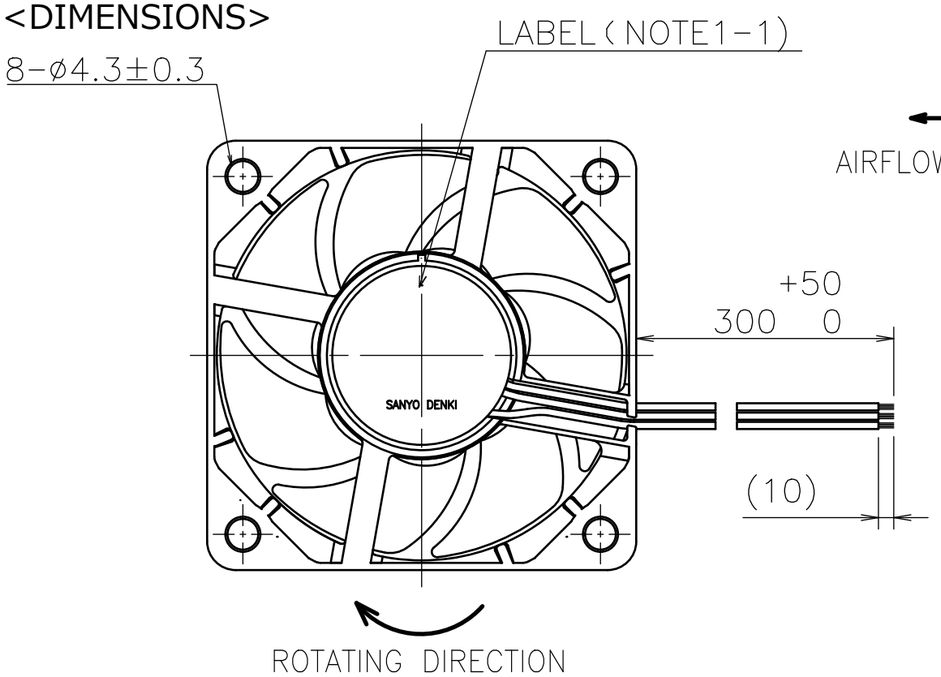
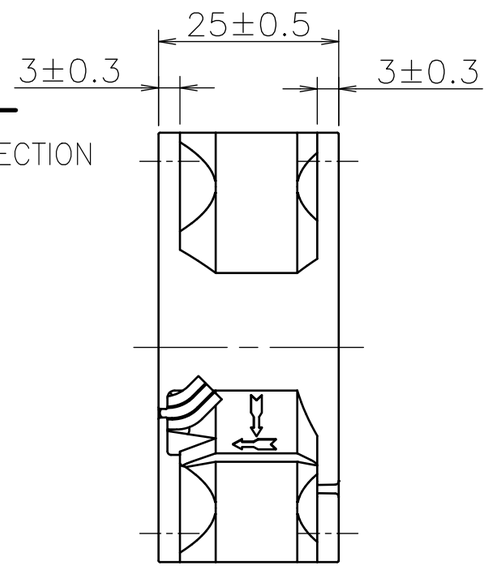
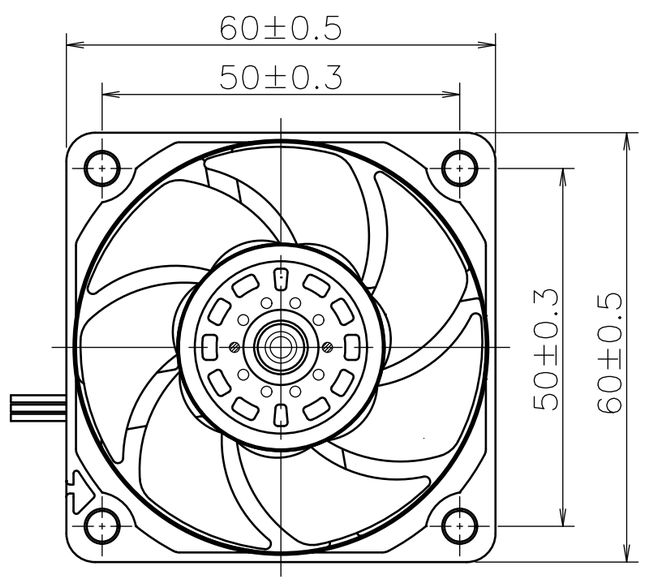
1. DIMENSIONS AND PARTS LIST

<DIMENSIONS>







NOTE

1-1. THE PRODUCT NAME, MODEL NO., MANUFACTURER, MANUFACTURE DATE, ETC. ARE PRINTED ON LABEL.
銘板上に品名，型名，製造会社名 及び 製造年月日等を表示する。

<LABEL> ▨ SHOWS LOT No. ▨ はロットNo.を示す。



OR



<LEAD WIRE CONNECTION TABLE>

FAN		
	LEAD WIRE	COLOR
+	UL1007 AWG24	RED
GND	UL1007 AWG24	BLACK
SENSOR	UL1007 AWG24	YELLOW

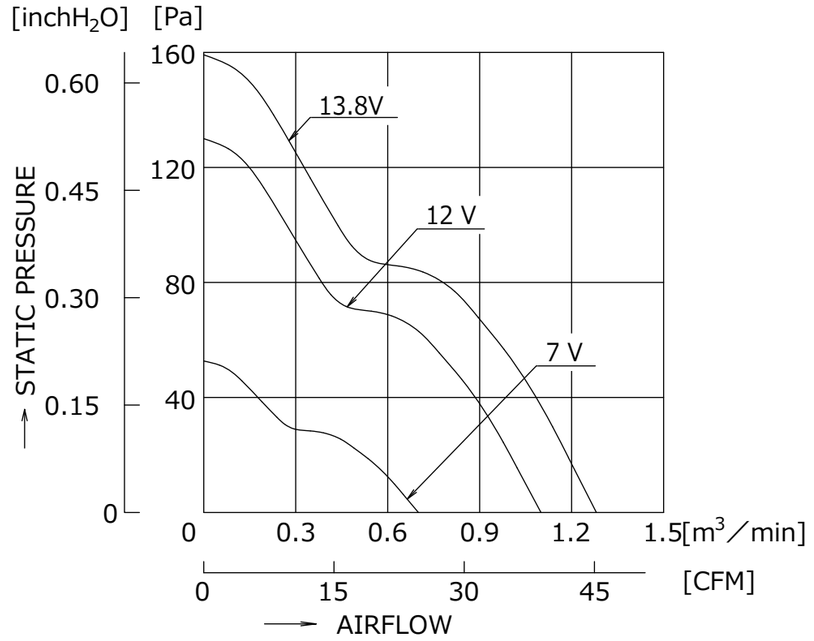
ECN No. E0220302	名称 Title: San Ace 60 (9RA) RIBLESS/PULSE_SENSOR		
単位 Unit: mm	新規 New Design: J.FERNANDEZ 21-05-18		
尺度 Scale: -	図面番号 Dwg. No.: 9RA0612J40011		Rev.: C
SANYO DENKI	SANYO DENKI CO.,LTD. ISSUED	承認 Approved By: TE.YAMAZAKI 24-01-10	審査 Checked By: R.MOLINO 24-01-10	設計 Designed By: P.MENDOZA 23-11-29
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2. GENERAL SPECIFICATIONS

<CHARACTERISTICS>

ITEM	UNIT	CHARACTERISTICS
RATED VOLTAGE	V DC	12
OPERATING VOLTAGE RANGE	V DC	7~ 13.8
MAX. AIRFLOW	m^3/min (CFM)	1.1 (38.8)
MAX. STATIC PRESSURE	Pa ($inchH_2O$)	130 (0.52)
RATED CURRENT	A	0.35
RATED SPEED	min^{-1}	7700±770
INSULATION RESISTANCE (NOTE 2-2)	-	10M Ω MIN. AT 500 V DC
DIELECTRIC STRENGTH (NOTE 2-2)	-	1 MINUTE AT 500 V AC, 50/60 Hz
OPERATING TEMPERATURE	℃	-20 ~ +70
STORAGE TEMPERATURE	℃	-30 ~ +70
EXPECTED LIFE	-	60,000 h / 60 ℃ (L10, CONTINUOUS OPERATION)
SOUND PRESSURE LEVEL (NOTE 2-3)	dB(A)	41
MASS	g	APPROX. 70
MATERIAL	-	FRAME, IMPELLER : PLASTICS
BEARING SYSTEM	-	2 BALL BEARINGS

<REFERENCE AIRFLOW-STATIC PRESSURE CHARACTERISTICS>



2-4. WITHIN THE OPERATING VOLTAGE RANGE, THE MOTOR IS PROTECTED FROM BURNOUT DUE TO LOCKED ROTOR.
DO NOT LOCK ROTOR OUTSIDE OF OPERATING VOLTAGE.
使用電圧範囲にてファン拘束時焼損の恐れはない。
使用電圧範囲外でファンを拘束しないこと。

2-5. FAN MIGHT NOT START UP NORMALLY
IF THE IMPELLER IS ROTATING WHEN THE POWER IS TURNED ON.
電源投入時、羽根が空転していると正常に起動できない場合がある。

NOTE 2-1. ALL THE VALUES IN THE TABLE ARE TYPICAL VALUES
MEASURED AFTER 30 MINUTES OF OPERATION
AT ROOM TEMPERATURE AND NORMAL HUMIDITY.
表中の値はいずれも、常温、常湿、30分間動作後の標準値。

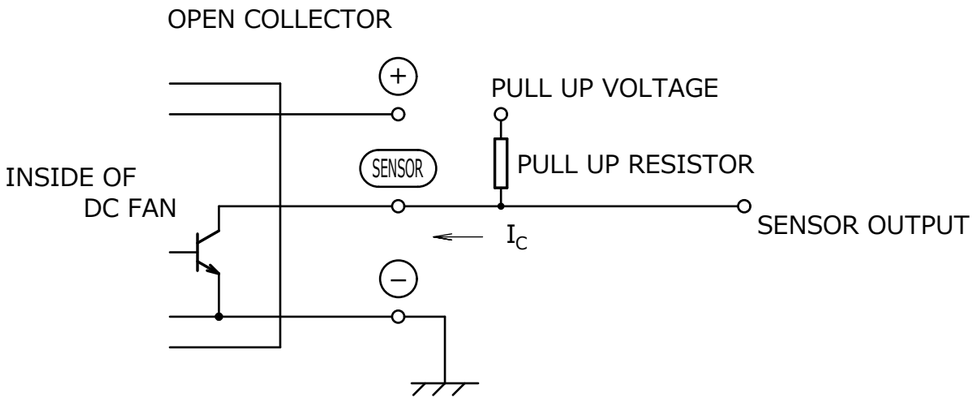
2-2. MEASURED BETWEEN LEAD WIRE CONDUCTORS AND FRAME.
リード線導体部とフレームとの間。

2-3. AT 1 m AWAY FROM THE AIR INLET.
ファン吸込側1 mにおける値。

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3. SENSOR SPECIFICATIONS

<OUTPUT CIRCUIT>



<OUTPUT WAVEFORM>

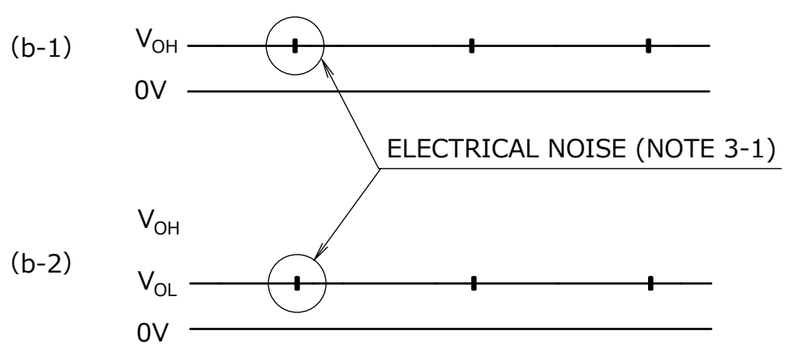
(a) IN CASE OF STEADY RUNNING

$T_{1 \text{ to } 4} \fallingdotseq (1/4)\ T_0$

$T_0 = 60/N$ [s]

N = FAN SPEED [min^{-1}]

(b) IN CASE OF STEADY LOCKED ROTOR



<SENSOR SPECIFICATIONS>

ITEM	SYMBOL	UNIT	MAX.
PULL UP VOLTAGE	-	V	15
COLLECTOR – EMITTER VOLTAGE (V_{CE})	V_{OH}	V	15
COLLECTOR CURRENT	I_C	mA	5
COLLECTOR SATURATION VOLTAGE (V_{CE}(SAT))	V_{OL}	V	0.6

NOTE 3-1. ELECTRICAL NOISE MAY APPEAR ON V_{OL}
WHEN THE MOTOR IS AUTO-RESTART.
モータの自動再起動動作にともない、V_{OL}にノイズが載ることがある。

3-2. IF REQUIRED TO KEEP THE V_{OL} LOW,
LOWER THE V_{OH} OR SET THE I_C SMALLER.
V_{OL}を低くする場合は，V_{OH}を下げるかI_Cを小さく設定すること。

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