

Confidential



No. 00-40586

DRAWING(S) FOR APPROVAL

To: SHENZHEN KEXIN COMMUNICATION TECHNOLOGIES CO., LTD.

D1751U48B9PPC68

Issued : September 06,2019

Required date
for return : October 07,2019

○ ○ ○ ○
Please return as soon as possible with your acceptance signature.

Please return by the required date, If no response or no return,
This spec is taken as the approved one by you.

NOTE: Regarding the attached drawings, they are slightly reduced in print.
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NIDEC SERVO CORPORATION

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SPECIFICATION

1. MODEL	D1751U48B9PPC68
2. RATING	
2.1 VOLTS	48VDC
2.2 WATTS	125W
2.3 CURRENT	3.1A(RMS)
2.4 PHASE	1
2.5 POLES	6
2.6 DUTY CYCLE	CONT.
3. AIR PERFORMANCE (DOUBLE CHAMBER METHOD)	
3.1 MAX. STATIC PRESSURE	560Pa (2.25inchH ₂ O) MIN. (AT RATED VOL. Duty=100%) (640Pa (2.57inchH ₂ O) (AV.))
3.2 MAX. AIR FLOW	12.8m ³ /min (452CFM) MIN. (AT RATED VOL. Duty=100%) (14.2m ³ /min (501CFM) (AV.))
4. ELECTRICAL PERFORMANCE	
4.1 ROTATION SPEED	6200min ⁻¹ MIN. (AT RATED VOL. Duty=100% FREE AIR) (6800min ⁻¹ (AV.))
4.2 CURRENT	3.1A MAX. (AT RATED VOL. Duty=100% FREE AIR)(AT AV) (2.6A(AV.)) 3.7A MAX. (AT RATED VOL. Duty=100% FREE AIR)(AT RMS) (3.1A(AV.))
4.3 STARTUP CURRENT	8A MAX. (AT RATED VOL. Duty=100% FREE AIR)(AT PEAK) (6.7A(AV.))
4.4 LOCKED CURRENT	2.1A MAX. (AT RATED VOL. Duty=100%)(AT PEAK) (1.8A(AV.))
4.5 INSULATION CLASS	A: IN CASE OF UL CLASS
4.6 INSULATION RESISTANCE	10M Ω MIN. (AT 500VDC)
4.7 DIELECTRIC STRENGTH	500VAC FOR ONE MINUTE OR 600VAC FOR ONE SECOND (BETWEEN LEADS AND SHAFT CUT OFF CURRENT 5mA)
5. THE OTHERS	
5.1 OPERATING VOLTAGE RANGE	DC36V~DC60V
5.2 OPERATING ENVIRONMENT RANGE	-20~+60 $^{\circ}$ C (AT NORMAL HUMIDITY)
5.3 STORAGE TEMPERATURE RANGE	-20~+70 $^{\circ}$ C (90% RELATIVE HUMIDITY MAX. NON CONDENSATION)
5.4 NOISE LEVEL	72dB MAX. (AT RATED VOL. Duty=100% FREE AIR FRONT 1m) (68dB (AV.))
5.5 APPEARANCE	VENTURI :ALUMINUM WITH BLACK PAINT PROPELLER :PBT/ABS RESIN(BLACK)
5.6 BEARING	BALL BEARING (UREA GREASE USE)
5.7 EXPECTED LIFE	90,000 HOURS (AT RATED VOL. +40 $^{\circ}$ C L ₁₀ LIFE)
5.8 TEMPERATURE RISE	55K MAX. (AT RATED VOL. FREE AIR) (BY THERMOCOUPLE METHOD)
5.9 PROTECTION	CURRENT SHUT DOWN BY LOCKED ROTOR DETECTION. (AUTO RESET) THE FAN SHALL NOT BE DAMAGED WHEN THE FAN LOCKED AT RATED VOLTAGE UNDER 24 HOURS 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	0.98N·m MAX. WITH M4 SCREWS
5.12 SAFETY STANDARD	UL/cUL (FILE No. E48889) TUV (FILE No. R-50004410)
5.13 WATER & DUST PROOF	IP55.
5.14 MASS	NOTE: IP55 IS APPLIED ONLY POTTED ELECTRONIC PART. 0.8kg (REF.)
6. SENSOR	PULSE OUTPUT TYPE (DWG. BB09384)
7. NOTE	
7.1 APPLICATIONS	BLOWING AIR OF INDOOR USE.
7.2 POWER SUPPLY SPECIFICATION	PLEASE USE THE POWER SUPPLY THAT CAN BE SUPPLIED 15ms/V OR LESS AT THE STANDING UP TO DC 36V.

7.3 APPLICATION ENVIRONMENT
PLEASE KEEP THE FAN BODY PLASTIC PORTION FREE FROM OIL, GREASE, CHEMICALS AND POISONOUS GAS.
THIS PRODUCT IS TREATED WITH POTTING ON THE ELECTRONIC PARTS MOUNTING SURFACE OF PCB.
THIS FAN IS NOT PROVIDED ANY WATER-PROOF NOR DUST-PROOF DEVICE. PLEASE AVOID APPLYING IN THE VAPOR CONDENSATION OR DUSTY ENVIRONMENT.

7.4 OTHERS
PLEASE HANDLE CAREFULLY, AND DO NOT APPLY MORE THAN 19.6N 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.
WHEN CONTROLLING DC FAN OPERATION BY POWER ON/OFF, POSITIVE SIDE SHOULD BE CHOSEN TO DO SO.
IF NEGATIVE SIDE IS SWITCHED ON OR OFF, THERE IS A CHANCE OF GENERATING HIGHER VOLTAGE SPIKES THAT MAY DAMAGE THE CIRCUIT BUILT IN.
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.
THE CHARACTERISTIC VALUES EXCEPT FOR LIFE EXPECTANCY ARE NORMAL TEMPERATURE AND NORMAL HUMIDITY.

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△			
△			
△	L. Ngoc	Sep-05-19	19-1255
△	L. Ngoc	Jul-31-19	19-1061

SPEED PERFORMANCE

1. SPECIFICATION

· CASE 1

- I_{out} 1mA Max.
- V_{out} 5V Max.
- V_{Load} 0.5V Max.
- FREQUENCY 500Hz~5kHz

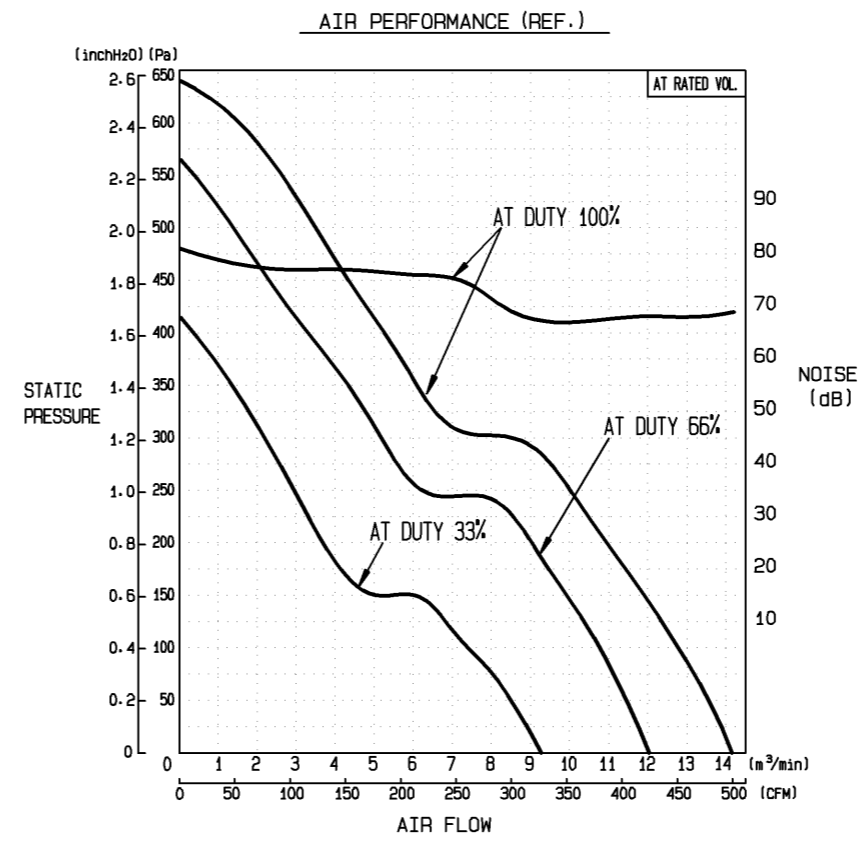
· CASE 2

- I_{out} 1mA Max.
- I_{in} 1mA Max.
- FREQUENCY 500Hz~5kHz

2. SPEED PERFORMANCE

REF. (AT RATED VOL., FREE AIR)

※ DUTY= 0~2% :STOP
DUTY= 2~10% :STOP OR RESTART AREA
DUTY= 10~100% :START ROTATION AREA
※ PLEASE PERFORM STARTING OF THE FAN DUTY=20% OR MORE.



入庫 REGISTERED	設計 DESIGNED	L. Ngoc	Jun-27-19	尺度 SCALE	
19.09.06	製図 DRAWN	L. Ngoc	Sep-05-19	N·T·S	DWG.SIZE
	審査 CHECKED	N. Nguyen	Sep-06-19		
	承認 APPROVED	M. Mimura	Sep-06-19	A3	

外形図 OUTLINE

D1751U48B9PPC68

3角法 THIRD ANGLE PROJECTION

日本電産サーボ株式会社 NIDEC SERVO CORPORATION

番 DWG.NO. **AS80734**

B

SHT.NO.1/2

RoHS指令適用品
RoHS DIRECTIVE APPLIED

F E D C B A

4

3

2

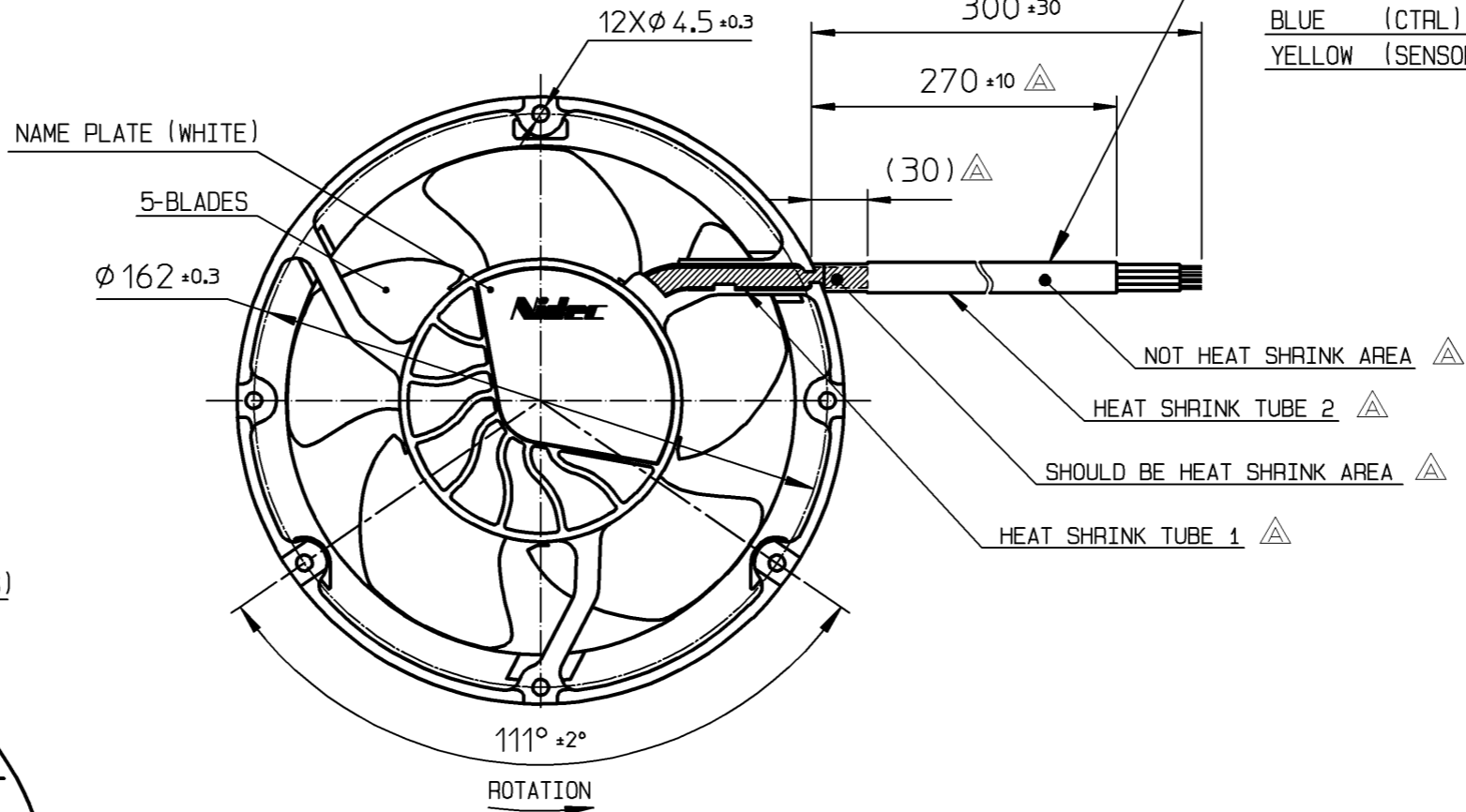
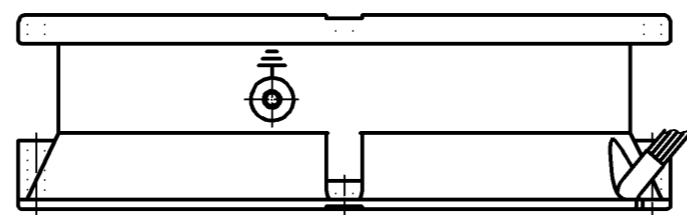
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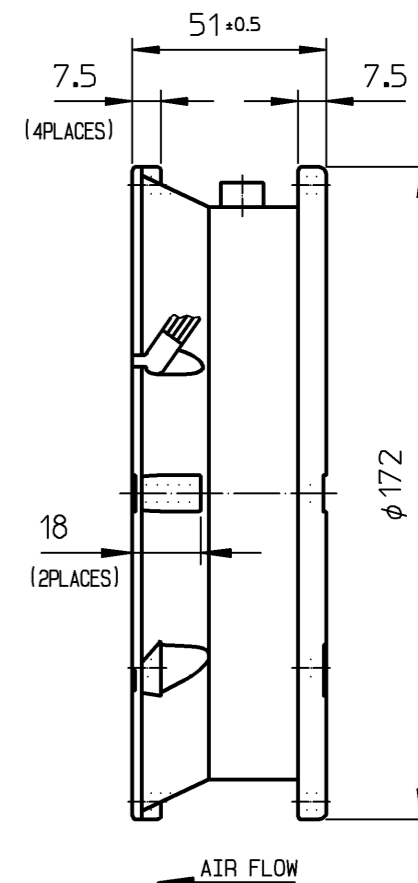
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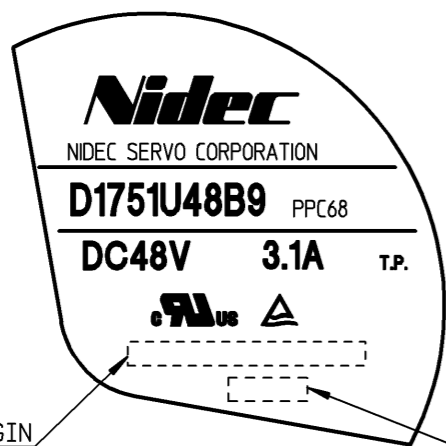
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LEADS UL1007 AWG22
OR LEADS UL3266 AWG22
RED (+V)
BLACK (GND)
BLUE (CTRL)
YELLOW (SENSOR)

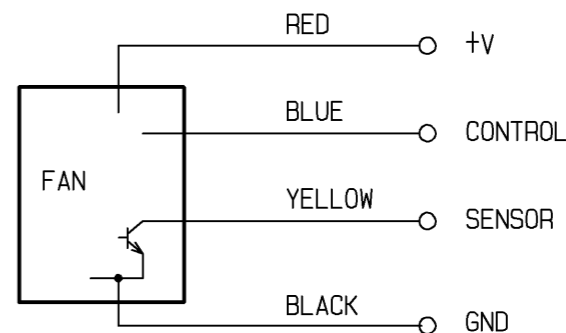


△ DETAIL OF NAME PLATE (N.T.S)



COUNTRY OF ORIGIN
MADE IN JAPAN OR
MADE IN VIETNAM

DATE CODE
9 F 27
YEAR LAST DIGIT OF YEAR (2019)
DAY (1~31)
MONTH A-Jan.
B-Feb.
L-Dec.



SENSOR CONNECTION

RoHS指令適用品
RoHS DIRECTIVE APPLIED

SHT.NO.2/2

寸法区分 DIMENSIONS GROUP	普通公差 GENERAL TOLERANCE	(1)	(2)
をこえ OVER	以下 LESS	±0.5	±1.0
30	120	±0.8	±1.5
120	400	±1.2	±2.5
400	1000	±2.0	±4.0
1000	-	±3.0	±6.0

入庫 REGISTERED
19.09.06
庫

設計 DESIGNED L.Ngoc Jun-27-19
製図 DRAWN L.Ngoc Sep-05-19
審査 CHECKED N.Nguyen Sep-06-19
承認 APPROVED M.Mimura Sep-06-19

尺度 SCALE N.T.S
DWG.SIZE A3

外形図 OUTLINE

D1751U48B9PPC68

3角法
THIRD
ANGLE
PROJECTION

単位 DIMENSIONS mm

日本電産サーボ株式会社
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図番 DWG.NO.

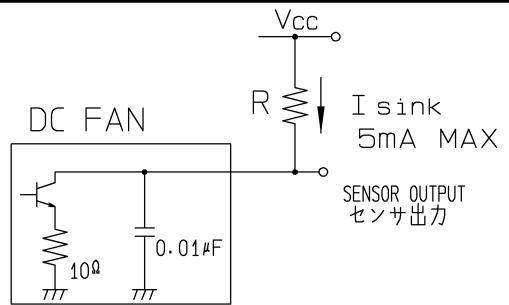
AS80734

B

F D C B A

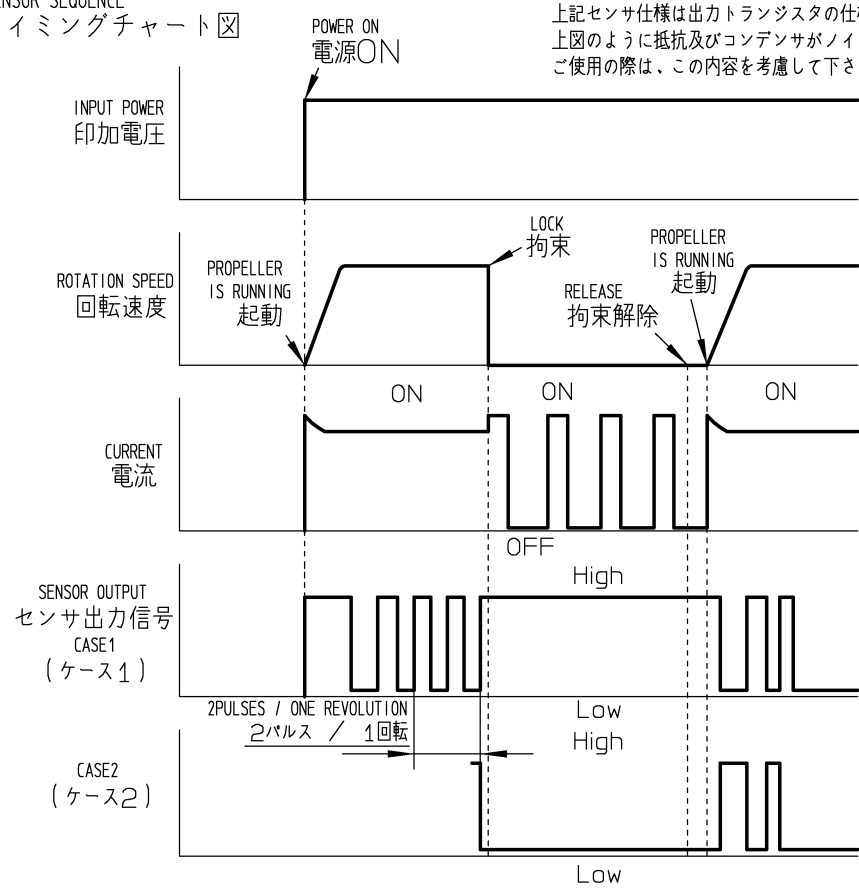
記事 REMARK	PULSE SENSOR SPECIFICATION パルスセンサ仕様書 <hr/> (PULSE OUTPUT TYPE:MODEL CODE:P)
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- | | | | | | | | | | | | | | |
|----------------------------------|--|-------------------------|---------------------------|----------------------------------|--|--------------------|--|-------------------------------|--|----------------|--|---------------------------|--|
| 1. センサタイプ | PULSE OUTPUT TYPE
パルスセンサ | | | | | | | | | | | | |
| 2. 出力方式 | OPEN COLLECTOR
オープンコレクタ | | | | | | | | | | | | |
| 3. 仕様 | <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">MAXIMUM PULL UP VOLTAGE</td> <td style="width: 50%;">FAN MAXIMUM INPUT VOLTAGE</td> </tr> <tr> <td>● 最大プルアップ電圧 V_{CC}: ファン使用最大電圧</td> <td></td> </tr> <tr> <td>SATURATION VOLTAGE</td> <td></td> </tr> <tr> <td>● 飽和電圧 $V_{CE(sat)}$ 0.5V MAX</td> <td></td> </tr> <tr> <td>OUTPUT CURRENT</td> <td></td> </tr> <tr> <td>● 出力電流 I_{sink} 5mA MAX</td> <td></td> </tr> </table> | MAXIMUM PULL UP VOLTAGE | FAN MAXIMUM INPUT VOLTAGE | ● 最大プルアップ電圧 V_{CC} : ファン使用最大電圧 | | SATURATION VOLTAGE | | ● 飽和電圧 $V_{CE(sat)}$ 0.5V MAX | | OUTPUT CURRENT | | ● 出力電流 I_{sink} 5mA MAX | |
| MAXIMUM PULL UP VOLTAGE | FAN MAXIMUM INPUT VOLTAGE | | | | | | | | | | | | |
| ● 最大プルアップ電圧 V_{CC} : ファン使用最大電圧 | | | | | | | | | | | | | |
| SATURATION VOLTAGE | | | | | | | | | | | | | |
| ● 飽和電圧 $V_{CE(sat)}$ 0.5V MAX | | | | | | | | | | | | | |
| OUTPUT CURRENT | | | | | | | | | | | | | |
| ● 出力電流 I_{sink} 5mA MAX | | | | | | | | | | | | | |



NOTE
 OUTPUT SENSOR CIRCUIT INCLUDE RESISTOR AND CAPACITOR FOR REDUCE THE NOISE AS DIAGRAM.
 PLEASE TAKE NOTICE OF THE CONDITION FOR USE.

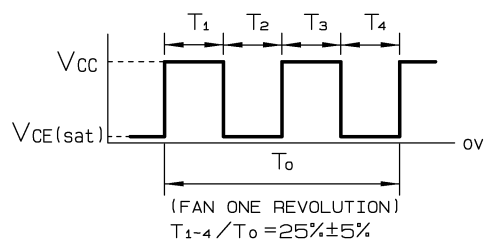
4. タイミングチャート



注記
 上記センサ仕様は出力トランジスタの仕様であり、ファン内部にはトランジスタの他に上図のように抵抗及びコンデンサがノイズ吸収の為に付加されています。従いましてご使用の際は、この内容を考慮して下さい。

NOTE
 SENSOR OUTPUT PATTERN WITH LOCKED PROPELLER IS EITHER CASE1 OR CASE2 DEPENDING ON POSITION TO LOCK.

注記
 モータ停止時および拘束時のセンサ出力信号はモータの停止位置に応じてケース1または、ケース2の波形を出力します。



改訂 記号	承認	審査	作成者	改訂 年月日	設計変更 通知票番号	対象範囲		改訂内容
						項番	頁	
—	マツハシ	マツハシ	モリモト	2011.01.06				新規作成



日本電産サーボ株式会社

NIDEC SERVO CORPORATION

図番 DWG.NO.
BB09384-01

单击下面可查看定价，库存，交付和生命周期等信息

[>>Nidec\(尼得科\)](#)