Confidential All for dreams
<u>No. 00-40930</u>
DRAWING(S) FOR APPROVAL
To: APUTURE IMAGING INDUSTRIES CO., LTD.
D1225C12B5CP-B3
Issued : May 26,2020
Required date for return : June 26,2020
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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SAFETY Instructions

(Safety precautions)

We appreciate your purchase of our product. Before using this product, please read the safety manual to insure safe and correct use of the product. Although some items in this manual may not apply to your application, please read only the applicable items.

The specifications agreement will be given priority.

This instruction classifies the rank of safety precaution as [Warning] and [Caution].

[^AWarning]

Handling the product without observing the instructions that accompany a [Warning] symbol may result in serious injury or death.

[A Caution]

Handling the product without observing the instructions that accompany a [Caution] symbol may result in injury or property damage.

Following the "Warning" and "Caution" instructions are very important for safety. In these instructions, the term "Motor" is used to reference - fan motor, pump motor, and gear head.

₼Warning

[General]

- Do not use the product in explosive or corrosive environments.-
- While power is being applied to the product, do not transport the product, do not handle the wiring of the product and do not conduct any maintenance on the product. Such work on the product can safely be done only after power have been disconnected for 10 minutes.
- Transportation, installation, piping, wiring, operation, maintenance, and inspection must be done only by the skilled and educated operators otherwise it may result in electric shock, injury and or fire.
- Do not touch the terminals of starting / phase advance condenser to prevent electric shock.

[Piping / Wiring]

- Wiring must be done correctly and securely to prevent electric shock, fire, and uncontrollable run.
- Do not bend, pull, or pinch the power supply cables and the lead wires to prevent electric shock.

[Installation / Setting]

- Ground terminal or ground wire must be set securely to prevent electrical shock.
- Use starting / phase advance condenser and electric components with the proper distance to prevent damage and fire.
- When installing the motor on a ceiling or a wall, the possibility of "accidental detachment" should be considered. The motor must be securely fastened to a stable and secure structure with adequate consideration to the motors weight and output.

[Operation]

 Do not operate the Motor in a condition where the electrical contacts are exposed.

- Do not touch the control circuit.
- Do not touch the rotating parts (shaft and propeller). Always maintain a safe distance from the motor.
- In case of power down, the motor must be turned completely off to prevent injury due to potential sudden restart condition.
- The motor may suddenly stop spinning. Provide safety measures to prevent damage to human life, body or property even if it cannot rotate.
- "Locked Rotor Condition" In the case that the motor becomes "locked" or is unable to rotate, disconnect all power to the motor and wait 10 minutes before performing any maintenance.
- The motor control system does not have the function to hold the rotation against loads. In order to hold the rotation, install mechanical systems to hold.

▲ Caution

[General]

- Do not operate the motor and the control device beyond its specifications to prevent electrical shock, injury, and damage.
- Do not put fingers or objects in the motor or the control device openings to prevent electric shock, injury, and fire.
- Do not operate if the motors and or control devices are damaged in any way.
- Do not remove the name plate of the motor.

[Transportation / Handling]

- Be careful while transporting the product not to drop and fall.
- Do not pull the lead wire when you take the product out from box as it may result in damage to the Product.

[Installation / Setting]

- Do not put any combustibles around or near the motor.
- Do not put any obstacles around the motor that might block ventilation.
- When coupling the motor to a load, be careful on centering between shaft and load, tensioning of belt and chain, and the parallelism with pulley. In case of direct coupling, pay attention to its precision. In case of using belt or chain, adjust the tension properly. Before operating, tighten the bolt of pulley and coupling firmly.
- Install a protection cover over the rotating part to prevent injury.
- Before coupling the motor to the equipment, confirm the rotating direction to prevent injury and equipment damage.
- Do not touch the keyway of the shaft edge with bare hands to prevent injury.

[Piping / Wiring]

• During insulation test, do not touch the terminals to prevent electric shock.

• The installation of another protection device (such as earth leakage breaker) beside overload protection is required to prevent burnout damage and fire.

[Operation]

- During operation, the motor and the control device are at high temperature. Be careful not to let your hands and body to touch them to prevent skin burn.
- Do not operate near corrosive environment, flammable gas environment and combustibles to prevent fire and damage.
- When abnormal operation occurrences, stop operation immediately to prevent electrical shock, injury, and fire.

[Maintenance / Inspection]

- During insulation test, do not touch the terminals to prevent electric shock.
- The frame of motor and control device is at high temperature. Be careful not to touch by your hands to prevent skin burn.

[Storage]

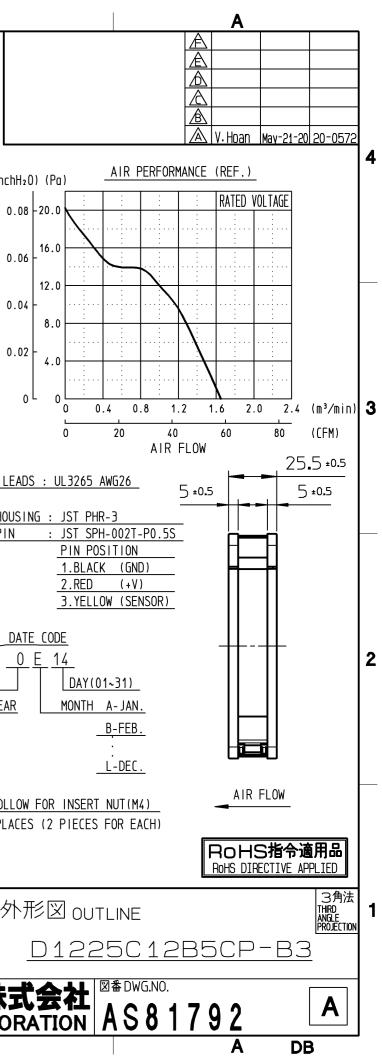
 Do not storage the product at locations where it can be exposed to - rain, water, corrosive gas / liquid, high temperature or high humidity to prevent electric leakage and damage.

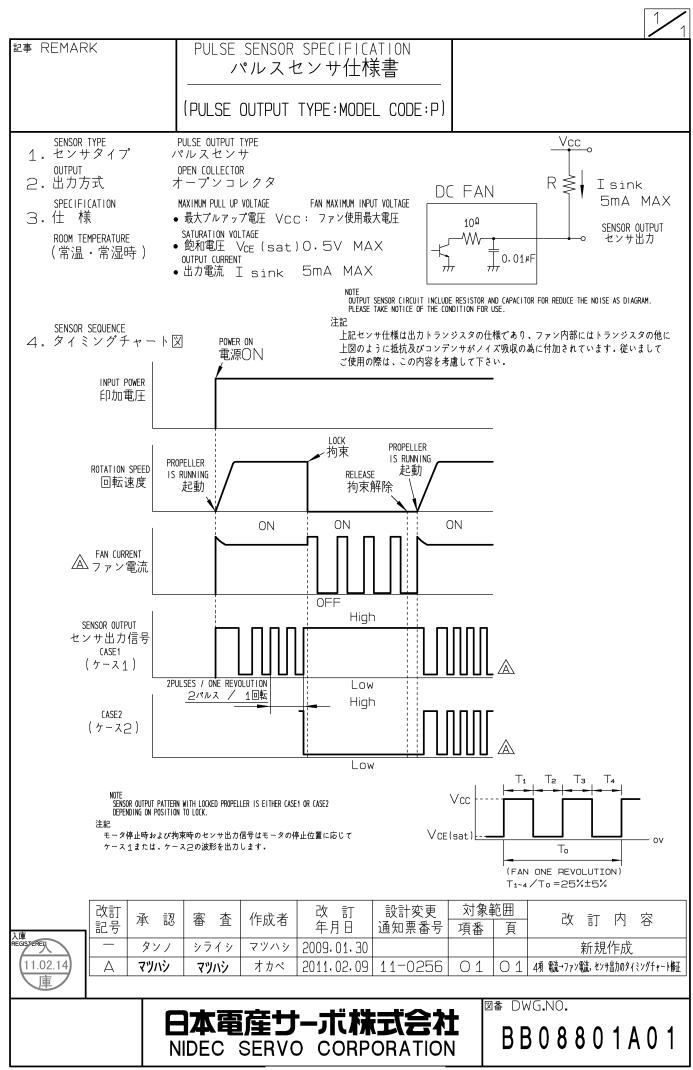
[Repair / Disassembly / Modification]

- Do not repair, disassemble, or modify the product.
- Any repairs, disassembles or modifications to the product by customer immediately void the product warranty.

F	E	D		С	
.MODEL	D1225C12B5CP-B3				
RATING			PPLICATION ENVIRONME	ENI BODY PORTION FREE FROM OIL,	
2.1 VOLTS	12VDC		REASE, CHEMICALS AND		
2.2 CURRENT 2.3 PHASE	0.083A	Т	HIS PRODUCT IS TREAT	TED WITH MOISTURE PROOF COA	TING ON
2.4 POLES				MOUNTING SURFACE OF PCB.	
2.5 DUTY CYCLE	CONT.		COAT WITH PARAXYLEN		
.AIR PERFORMANCE (DOUBLE				IDED ANY WATER-PROOF NOR DU	
	16Pa(0.064inchH₂O) MIN. (AT RATED VOL.,FREE		R DUSTY ENVIRONMENT		INJATION
	(20Pa(0.08inchH20) AV.)	7.3 0			
3.2 MAX. AIR FLOW	1.47m ³ /min (51.9CFM) MIN.(AT RATED VOL.,FREE			LLY, AND DO NOT APPLY MORE	THAN
	(1.65m³/min (58.3CFM) AV.)		9.6N TO THE LEAD CON		
.ELECTRICAL PERFORMANCE			/HEN ANY UF NEW ITEM: PLEASE LET US KNOW BE	S OTHER THAN SHOWN HERE ARE	REQUIRED,
4.1 ROTATION SPEED	1630min ⁻¹ MIN. (AT RATED VOL.,FREE AIR MA			TY TO GENERATE SURGE VOLTAG	F EVEN AT
	(1850min ⁻¹ AV.)	P		WHEN CONTROLLING DC FAN OP	PERATION BY STATE
4.2 CURRENT	0.1A MAX. (AT RATED VOL., FREE AIR MA			E SIDE SHOULD BE CHOSEN TO I	
4.3 LOCKED CURRENT	(0.083A AV.) 0.44A PEAK MAX. (AT RATED VOL.)	1	F NEGATIVE SIDE IS S	SWITCHED ON OR OFF, THERE IS	S A CHANCE OF
	(0.36A PEAK MAX. (AT RATED VOL.)			LTAGE SPIKES THAT MAY DAMAG	
4.4 STARTUP CURRENT	0.44A PEAK MAX. (AT RATED VOL.)			SUPPLY IS TURNED ON/OFF (ME)	
	(0.36A PEAK AV.)			STALLED IN A SENSITIVE AND I IODE IN PARALLEL TO POWER SI	
4.5 INSULATION CLASS	A: IN CASE OF UL CLASS			T BE A PURE DC. IF THE SUPP	
4.6 INSULATION RESISTANCE				AND THE RELIABILITY CAN NOT	
4.7 DIELECTRIC STRENGTH	500VAC FOR ONE MINUTE OR 600VAC FOR ONE SECOND			ALUES EXCEPT FOR LIFE EXPECT	
	(BETWEEN LEADS AND FLAME CUT OFF (URRENT 5mA)	T	EMPERATURE AND NORM	AL HUMIDITY.	
				119 ±1	
.THE OTHERS 5.1 APPLICABLE VOLTAGE RA	NGE 5~13.2VDC (NOMINAL VOLTAGE:12VDC)		-		
5.2 OPERATING ENVIRONMENT			Ø 160 ±1	104.8 ±0.3	200 +20
	(90% RELATIVE HUMIDITY MAX. NON CONDENSATION)				
5.3 STORAGE TEMPERATURE R	ANGE -20~+60°				
	(90% RELATIVE HUMIDITY MAX. NON CONDENSATION)				
5.4 NOISE LEVEL	30dB MAX. (AT RATED VOL., FREE AIR, CONVERTED MEASUREMENTS OF 25cm FROM THE FROM		†		¥ X =========
	THE MEDIAN VALUE OF NOISE RANGE) (26dB AV.)				
5.5 APPEARANCE	VENTURI : ABS/PBT GF30 RESIN(BLACK)				
	PROPELLER :ABS/PBT GF30 RESIN(GRAY)		±0.3		
5.6 BEARING	BALL BEARING		<u>م</u> ص	∩∖¥ ∔K	<u>∧</u>
5.7 EXPECTED LIFE	100,000 HOURS (AT RATED VOL. +35° L 10 L IFE)		1104.8		
	55,000 HOURS (AT RATED VOL. +60° L10 LIFE)		$ \forall $		YEAR
5.8 TEMPERATURE RISE	40K MAX. (AT RATED VOL.,FREE AIR) (BY THERMO-COUPLE METHOD)				
5.9 PROTECTION	CURRENT SHUT DOWN BY LOCKED ROTOR DETECTION	COUNTRY OF ORI	IGIN		LAST DIGIT (
	(AUTO RESET)	MADE IN JAPAN	OR OR		<u>YEAR (2</u>
	THE FAN SHALL NOT BE DAMAGED WHEN THE FAN LC	JLKED			
	AT RATED VOLTAGE UNDER 24HOURS CONDITION.	MADE IN VIETNA	<u>wi</u>		
5.10 REVERSE PLARITY PROT	LLIIUN THE FAN SHALL NOT BE DAMAGED WHEN THE LEAD W	/IRES		ROTATION O	
	CONNECTED IN REVERSE POLARITY.		Ø4.5±0.3		-BLADES
5 11 MOUNTING SCREW FORCE	0.98N·m MAX. WITH M4 SCREWS	<u> </u>		NAME PLATE (WHITE)	
5.12 SAFETY STANDARD	UL (File No.E48889)			<u>/ tome rester (mitter</u>	
	TUV (File No.R-50004410)				\sim
5.13 MASS	200g(REF.)		RED o +v		-
. SENSOR	PULSE OUTPUT TYPE(DWG.BB08801)		v	入庫 REGISTERED DESIGNED V.	Hoan Mar-14-20 尺度 SCALE
.NOTE 7.1 APPLICATIONS	BLOWING AIR OF INDOOR USE.		ELLOW SENSOR	→ ₩ V.	Hoan May-21-20 N. T. S
AT AT LICATIONS	DECHING AIN OF INDOON USE.			20.05.26 審査 CHECKED N. N	lguyen May-25-20 Dwg.size
		<u>[B</u>	LACK GND		1imura May-25-20 A 3
			CONNECTION		
		JENJON	<u></u>	DIMENSIONS	本電産サーボ
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