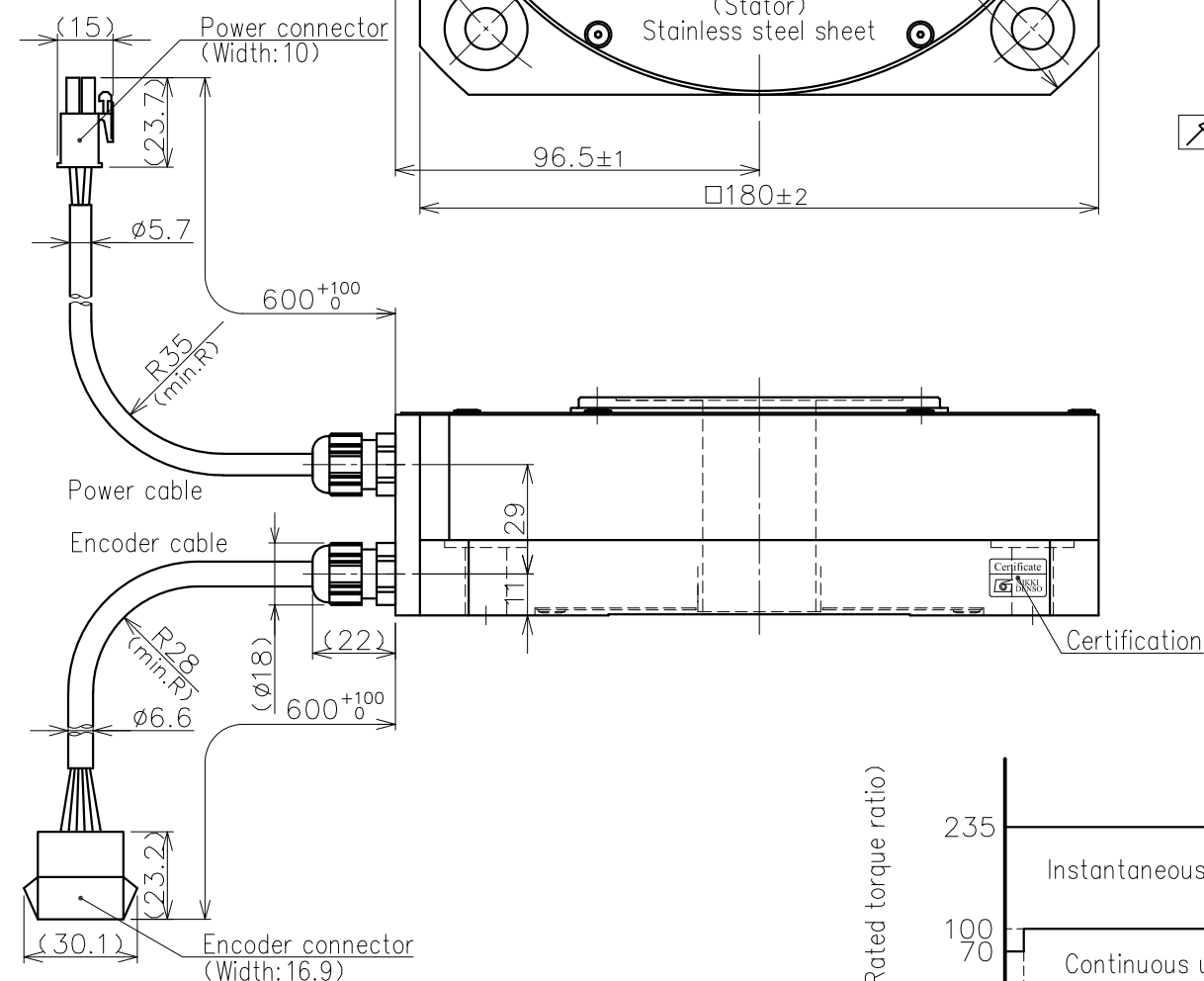
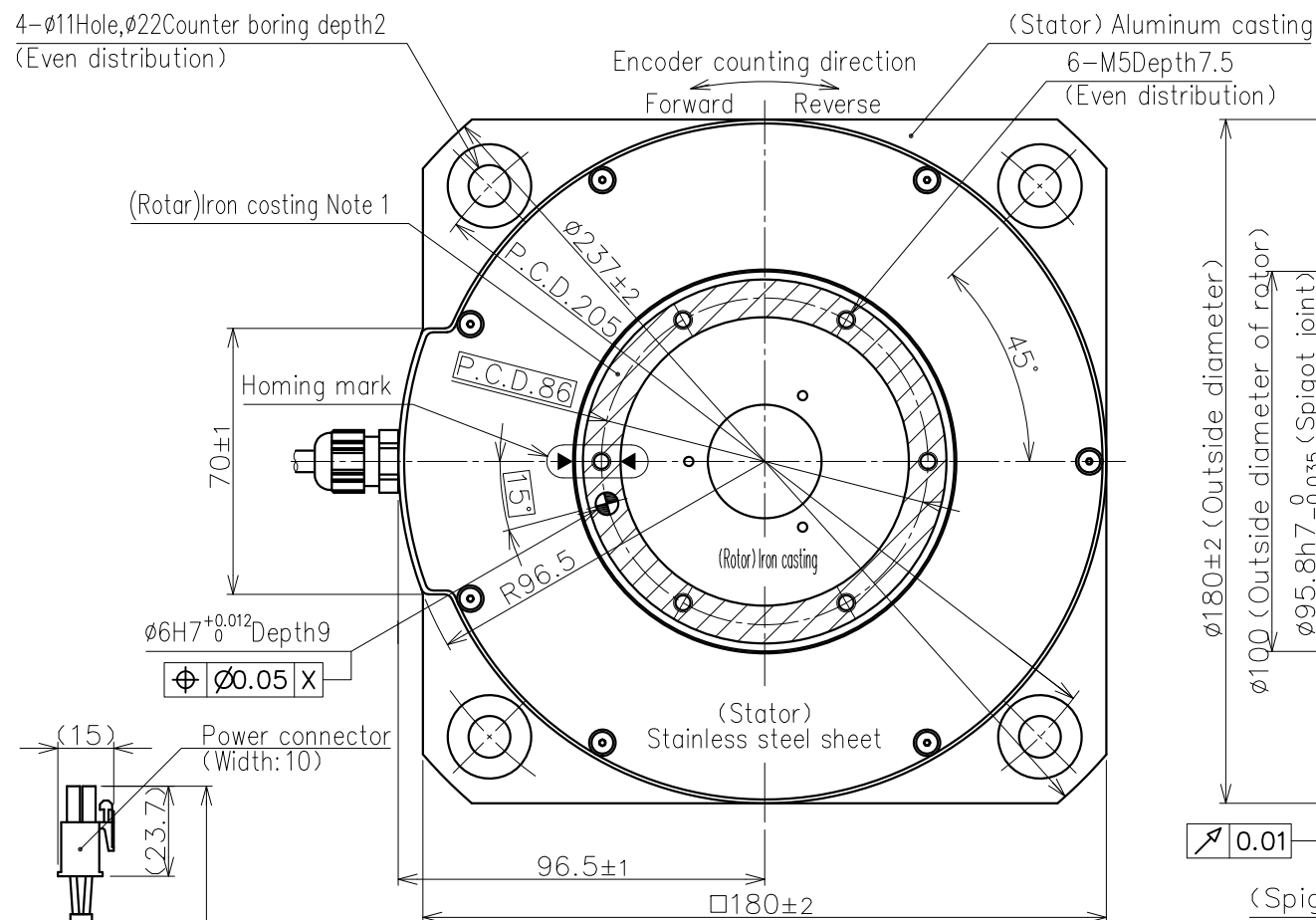
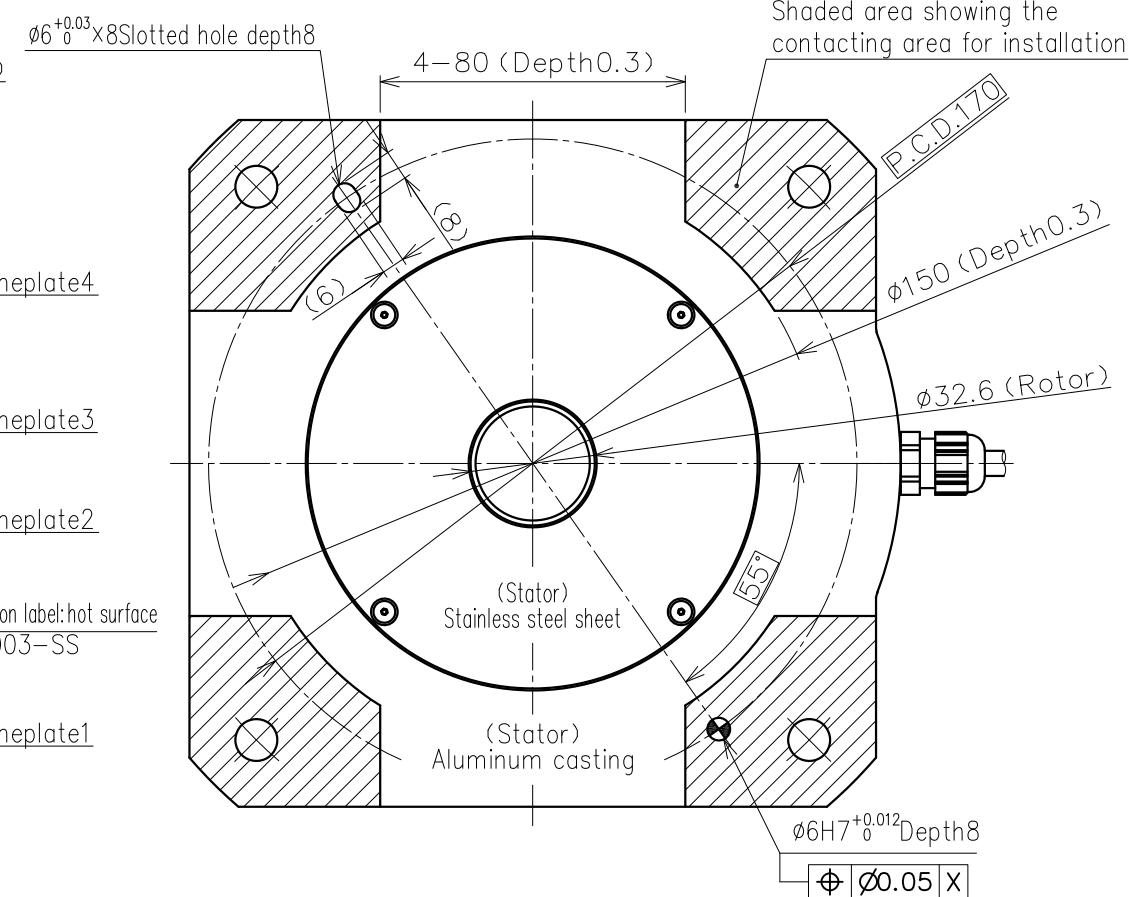
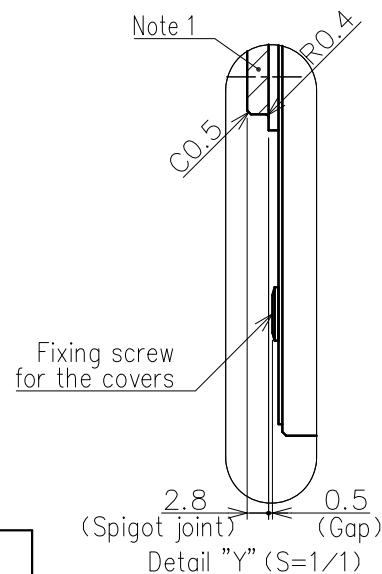
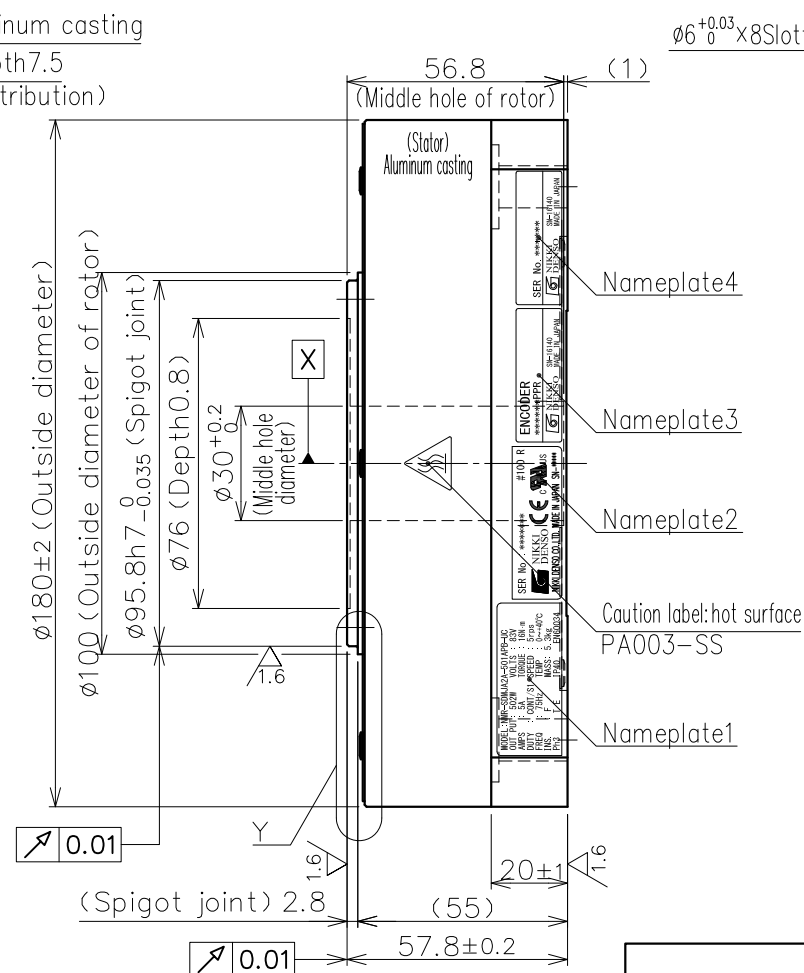
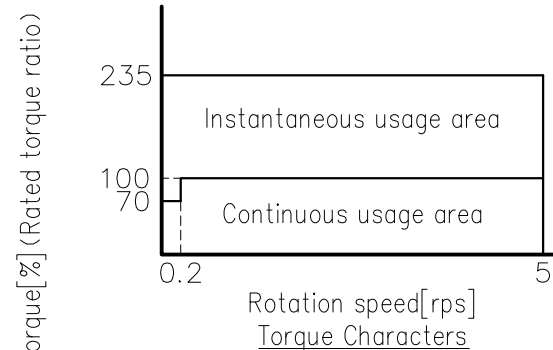


4- $\phi 11$ Hole, $\phi 22$ Counter boring depth2
(Even distribution)



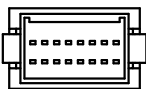
Note

- 1.The spigot joint surface of rotation part (both axial and radial) are coated by the transparent color coating agent for the rust prevention under the environment of no condensation. Make sure to use the dry cloth when you clean up the spigot joint surface of rotation part. Never use the organic solvent such as acetone or ethanol since these solvent destroys the coating agent and will cause the rusting.
- 2.Allowable axial load and allowable moment load indicated in the spec. sheet are the maximum allowable load when each load is independently activated. Please make sure to consult us in case of combined load at the axial load, radial load, and moment load to be activated, or life of the motor.
- 3.Please do not wire the pin (A6~B7) which is reserved for encoder manufacturer to avoid the encoder troubles.
- 4.Special model motor, please refer to the special model drawing.

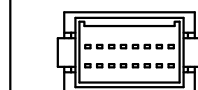


Nameplate list	
Index	Details
Nameplate 1	UL Motor serial No.1
Nameplate 2	UL Motor serial No.2
Nameplate 3	Encoder type. Resolution
Nameplate 4	Encoder software

Power connector pin assignment	
Pin	Signal Line color
1	U Black
2	V Black
3	W Black
4	Ground Green/Yellow
Housing : 172167-1 (TEJ)	
Contact : 170364-1 (TEJ)	

Typing side B1 —> B8	Encoder connector pin assignment			
	Pin	Signal	Pin	Signal
A1 —> A8	A1	+5V	A5	N.C.
	B1	GND	B5	N.C.
	A2	+5V	A6	Reserved
	B2	GND	B6	Reserved
	A3	SD1	A7	Reserved
	B3	SD1*	B7	Reserved
	A4	N.C.	A8	FG
	B4	N.C.	B8	FG
Un-used PINS: A4, A5, B4, B5	Housing : J21DPM-16V-KY (JST)			
	Contact : SJ2M-002GF-M1.0N (JST)			

Typing side
B1 → B8



A1 → A8

Un-used PINS : A4, A5, B4, B5

Specifications

Items	Unit	Specifications
Rated torque	N·m	16.0
Max. torque	N·m	37.6
Rated current	A	5.0
Rated rotation speed	rps	5
Rated output	W	502
Encoder type	Optical absolute (single-turn)	
The signal output	Serial communication	
Interpolation unit	Built-in motor	
Detection pulse	PPR	2,097,152
Electrical detection resolution	arc second	0.618
Allowable moment load	N·m	20.5
Allowable axial load	N	2,000
Radial runout (No load)	mm	0.01
Axial runout (No load)	mm	0.01
Rotor moment of inertia	kg·m ²	0.0027
Mass	kg	5.3
Magnetic pole detection	Absolute position detection	
Power source	ACV	3-phase 200V
Paired servo driver	800W	
Duty type	—	Continuous (S1)
Mounting attitude	—	Horizontal (Rotor facing upward) ☆
Protection class	IP	40
Operating temperature	°C	0~40
Humidity (Non-condensing)	%	0~85
Vibration resistance	G	1
Withstand voltage	AC 1500V for 1 min. only	
Insulation resistance	Ω	100M or higher

◆ The life of bearing and runout accuracy are different by load condition.

☆ Please make sure to consult with us if the mounting is other than horizontal attitude.

NOTE File name/SE-84080A.dwg			ENTRY No. R1-721,76		PRODUCT No. 248-251.1	
APPROVED			FINISH		MODEL	
CHECKED			—		τ DISC Motor ND180-55-FSPB-UC (ABS) NMR-SDMJ2A-501APB-UC	
DESIGNED			MATERIAL		TITLE	
—			Refer drawing		Dimensions (ABS High precision)	
—			SCALE		DRAWING No.	
—			1/2		REV.	
—			third angle projection		SE-84080A	