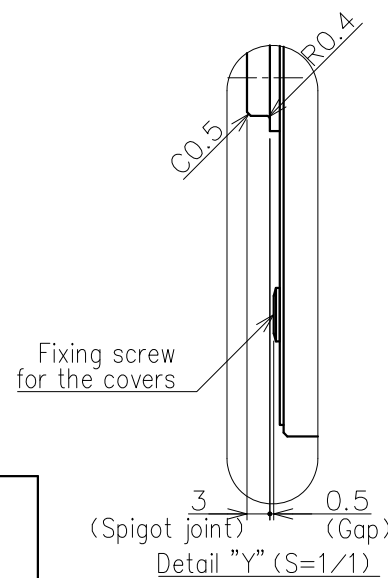
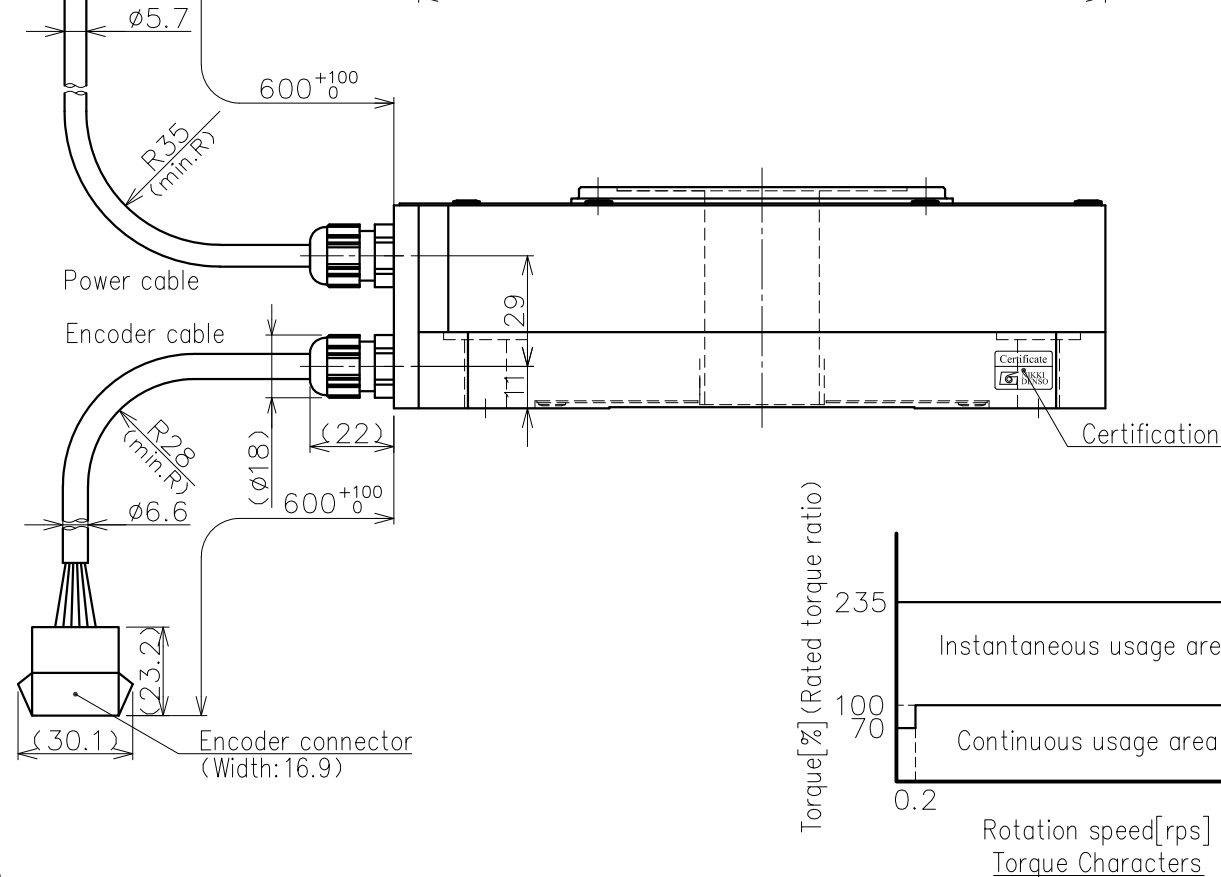
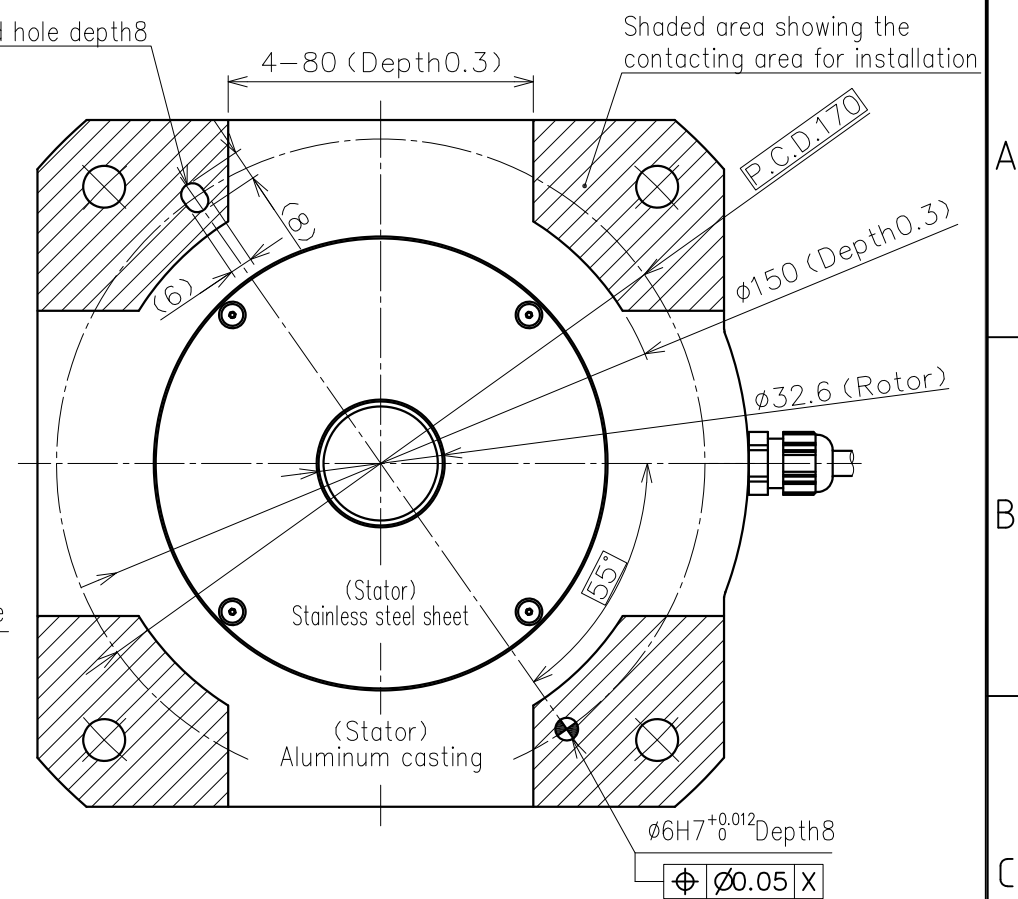
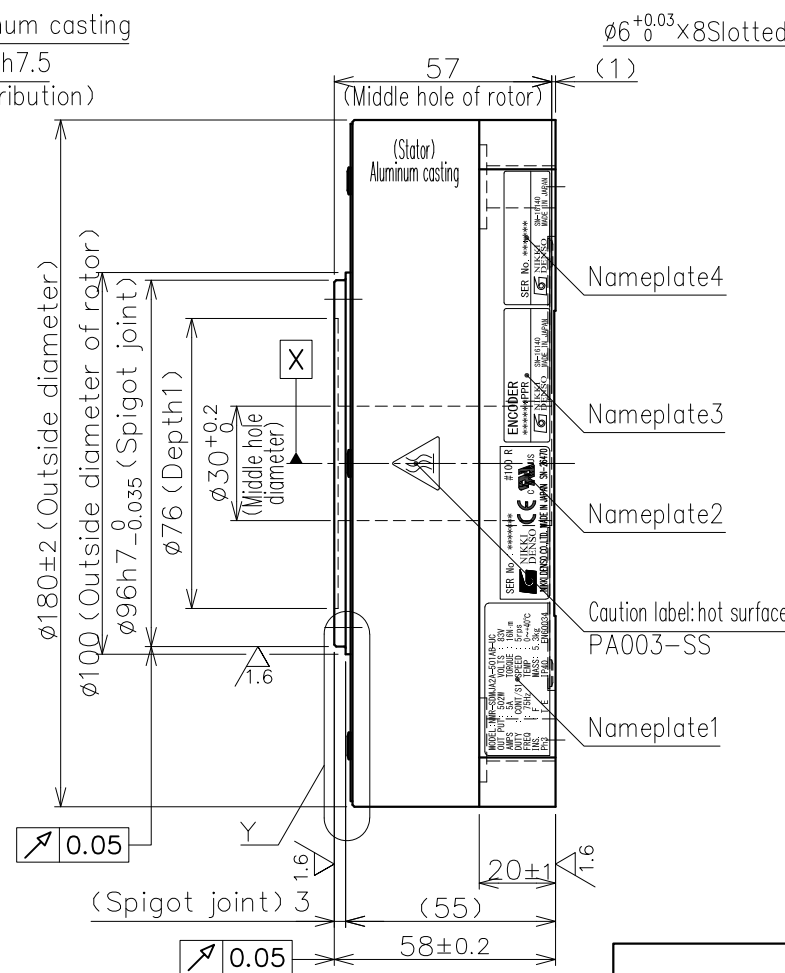
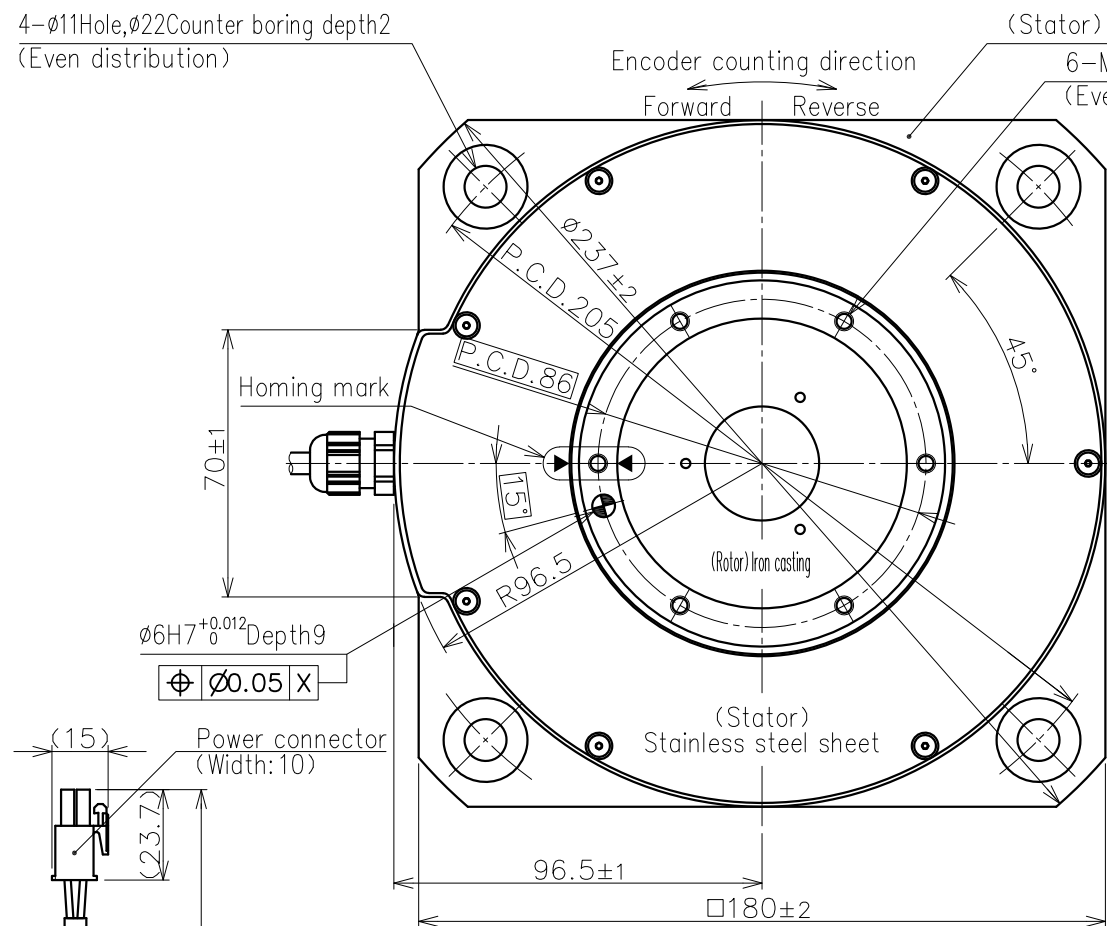
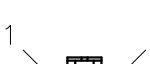




Nameplate list	
Index	Details
Nameplate 1	UL Motor serial No.1
Nameplate 2	UL Motor serial No.2
Nameplate 3	Encoder type. Resolution
Nameplate 4	Encoder software

	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)			

Encoder connector pin assignment			
Pin	Signal	Pin	Signal
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
Housing : J21DPM-16V-KY (JST)			
Contact : SJ2M-002GF-M1.0N (JST)			

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	0.05
Axial runout (No load)	mm	0.05
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

Note

- 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.
- Please do not wire the pin (A6~B7) which is reserved for encoder manufacturer to avoid the encoder troubles.
- Special model motor, please refer to the special model drawing.

NOTE File name/SE-84070A.dwg			ENTRY No. R1-72176	PRODUCT No. 248-2501
APPROVED	CHECKED	DESIGNED	FINISH	MODEL
				DISC Motor ND180-55-FSB-UC (ABS) NMR-SDMJA2A-501AB-UC
			MATERIAL	TITLE
			Refer drawing	Dimensions (ABS)
			SCALE 1/2	DRAWING No.
			third angle projection	REV.
				SE-84070A

REV. MARK ENTRY No.

REV. NOTE

APPROVED CHECKED DESIGNED DATE DATE DATE

NIKKI DENSO CKD NIKKI DENSO CO., LTD

third angle projection

REV.