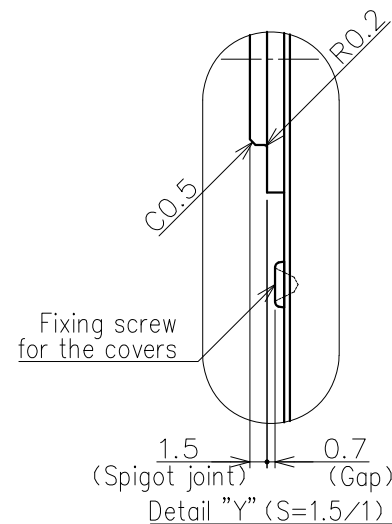
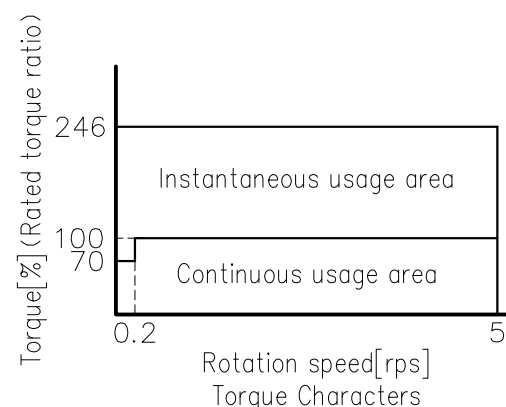
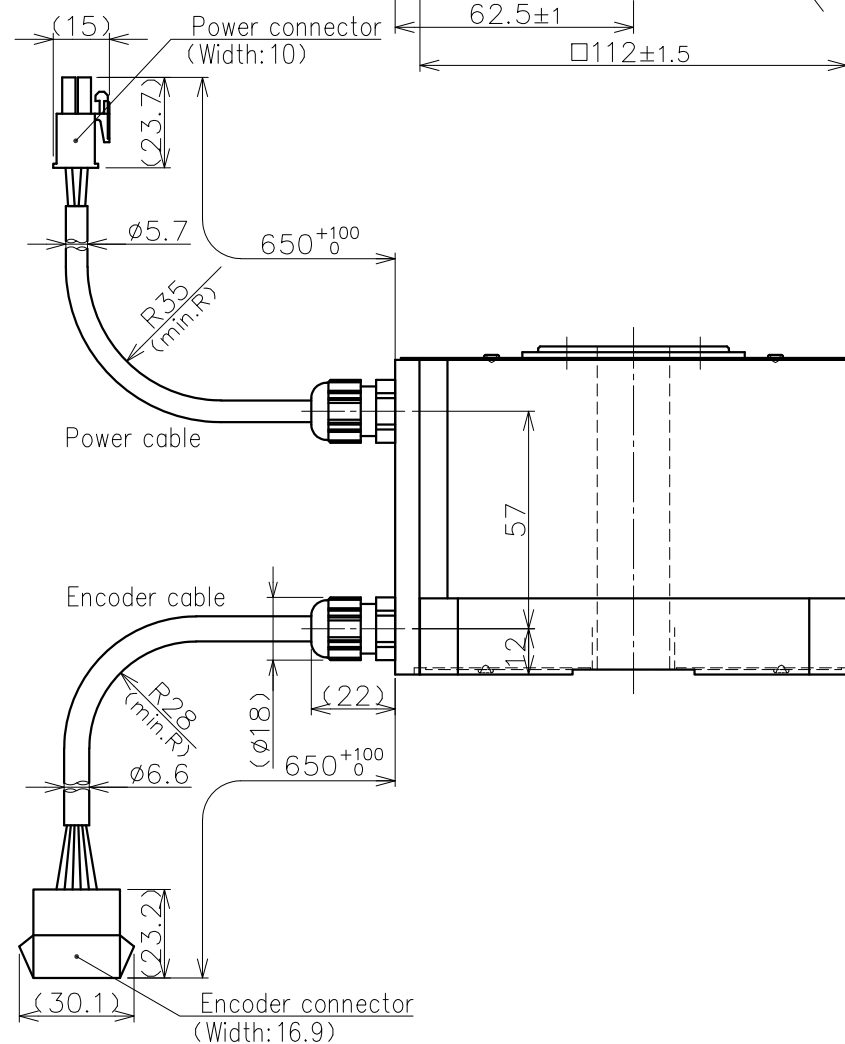
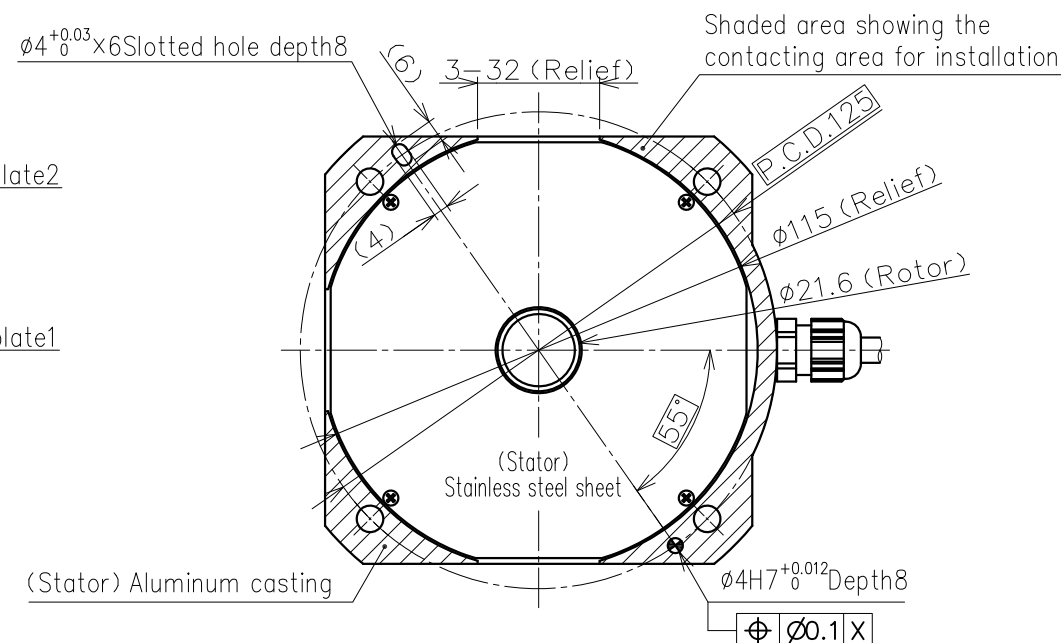
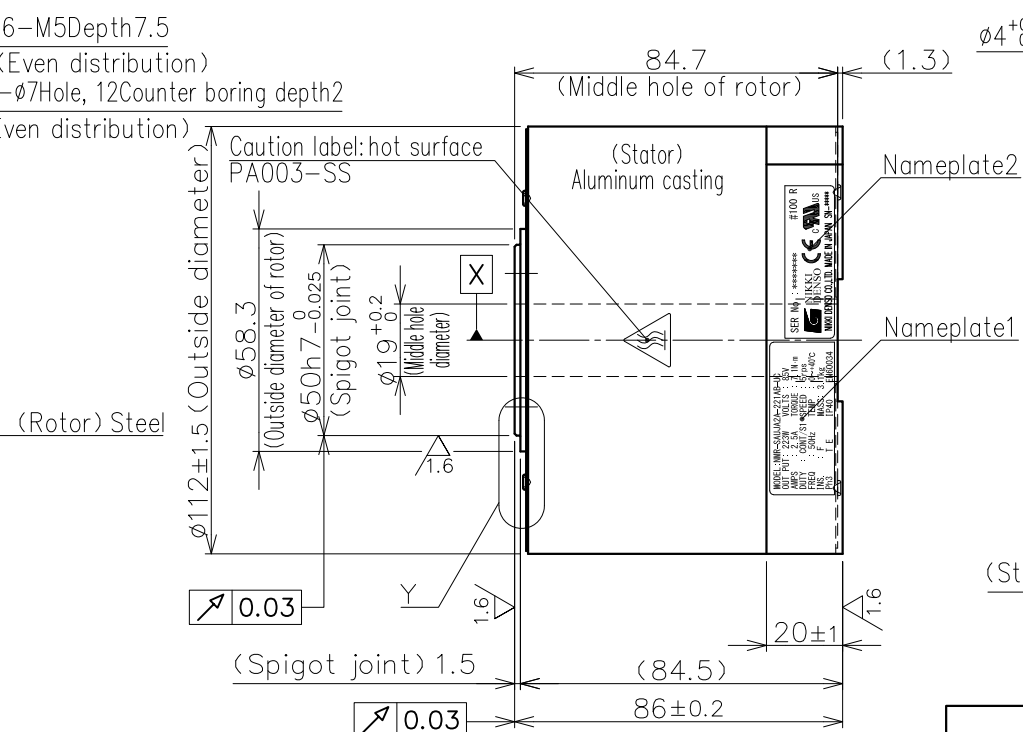
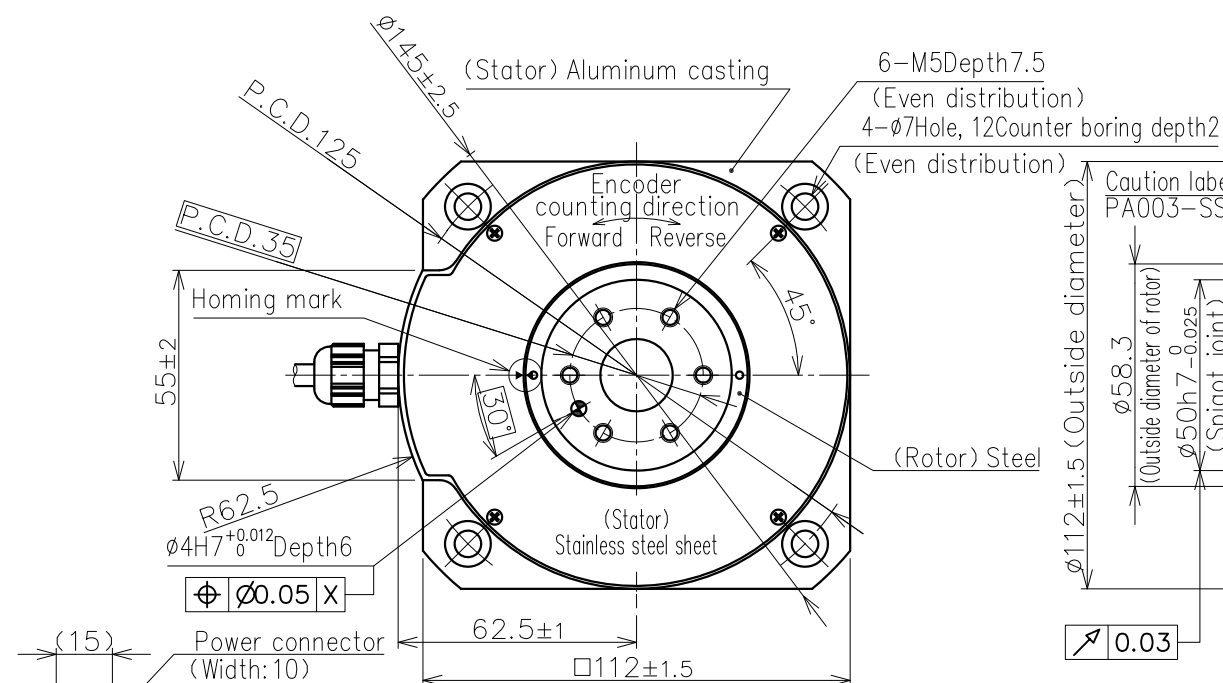
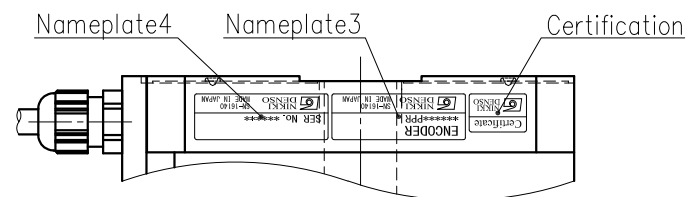
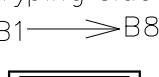




Nameplate list	
Index	Details
Nameplate 1	UL Motor serial No.1
Nameplate 2	UL Motor serial No.2
Nameplate 3	Encoder type, Resolution
Nameplate 4	Encoder software

	Power connector pin assignment		
	Pin	Signal	Line color
	1	U	Black
	2	V	Black
	3	W	Black
	4	Ground	Green/Yellow

Typing side
B1 —> B8



A1 —> A8

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

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	7.1
Max. torque	N·m	17.5
Rated current	A	2.5
Rated rotation speed	rps	5
Rated output	W	223
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	6.1
Allowable axial load	N	1,100
Radial runout (No load)	mm	0.03
Axial runout (No load)	mm	0.03
Rotor moment of inertia	kg·m ²	0.00061
Mass	kg	3.1
Magnetic pole detection	Absolute	position detection
Power source	ACV	3-phase 200V
Paired servo driver	—	400W
Duty type	—	Continuous (S1)
Mounting attitude	—	Horizontal (Rotor facing upward)
Protection class	IP	40
Operating temperature	℃	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

1. 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.

2. Please do not wire the pin (A6~B7) which is reserved for encoder manufacturer to avoid the encoder troubles.

3. Special model motor, please refer to the special model drawing.

△				NOTE File name/SE-84050A.dwg			ENTRY No. R1-72176		PRODUCT No. 248-2461	
△				APPROVED			CHECKED		DESIGNED	
△				FINISH —			MATERIAL Refer drawing		MODEL DISC Motor ND110-85-FSB-UC (ABS) NMR-SAUJA2A-221AB-UC	
△				SCALE 1/2			TITLE Dimensions (ABS)		DRAWING No. SE-84050A	
REV. MARK ENTRY No.				REV. NOTE			APPROVED DATE		CHECKED DATE	
△				DESIGNED DATE			CD NIKKI DENSO		CKD NIKKI DENSO CO., LTD	
							third angle projection		REV. A	