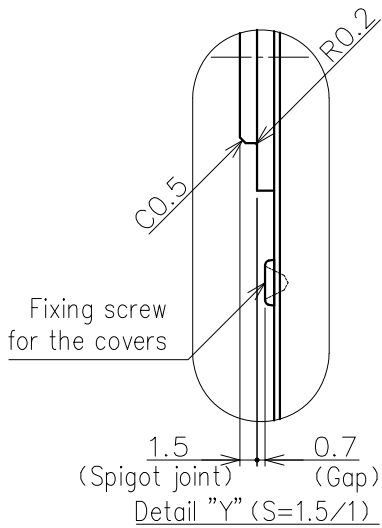
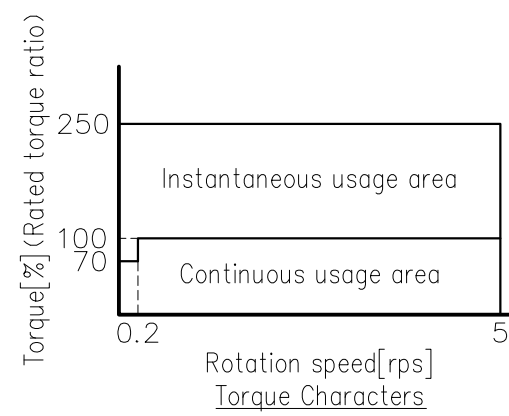
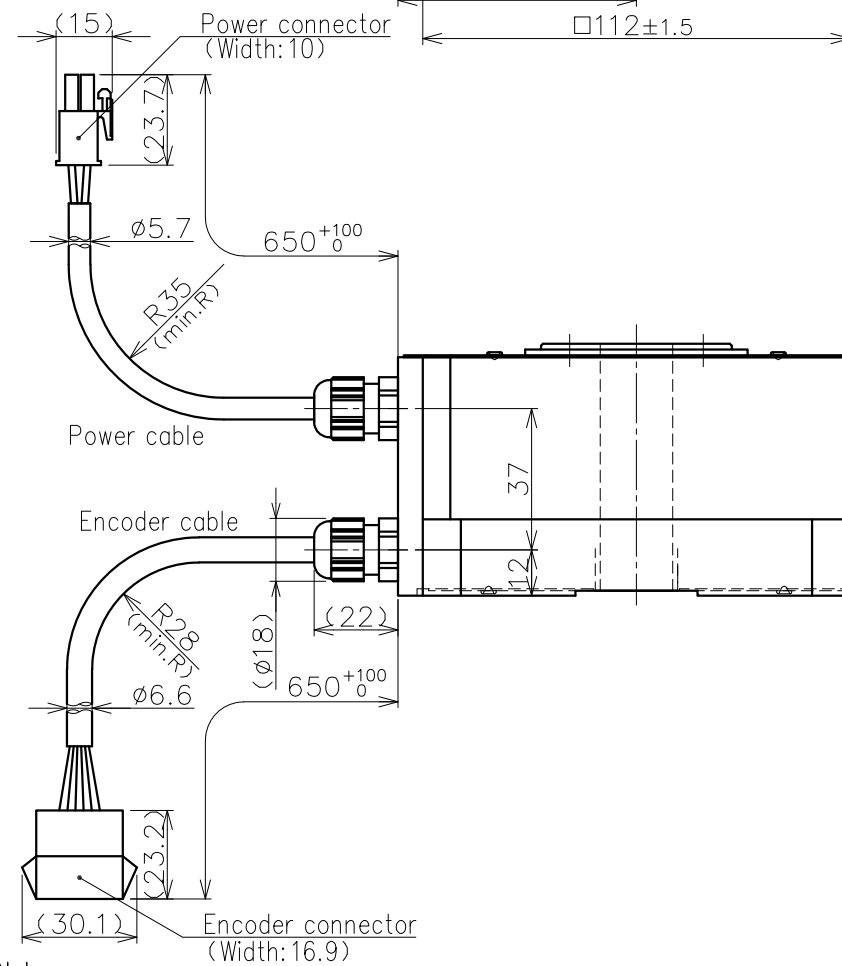
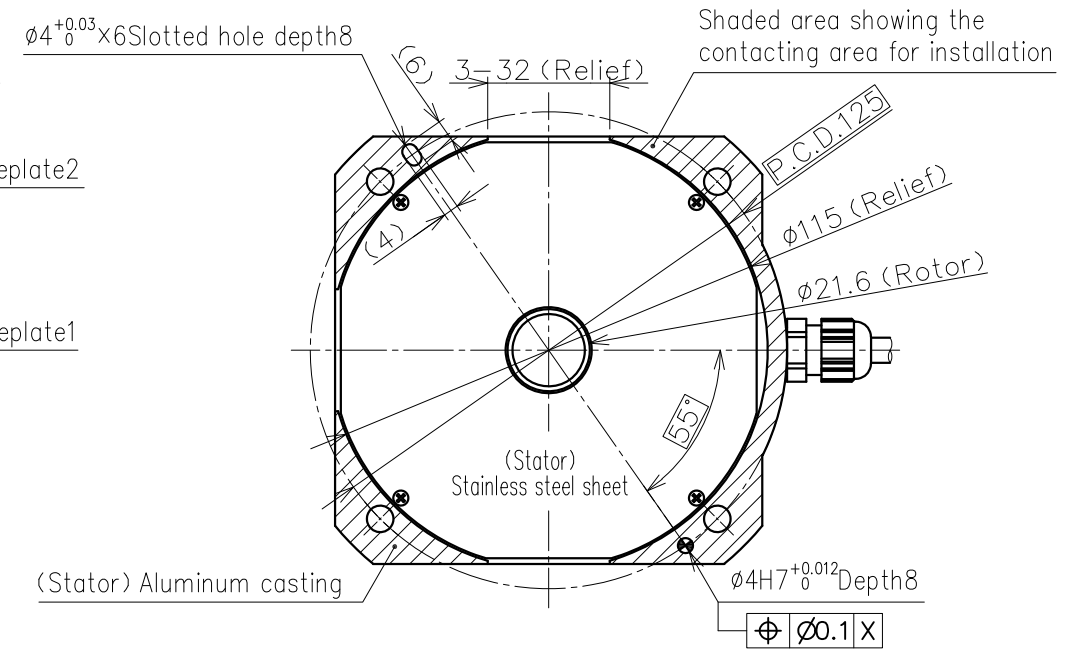
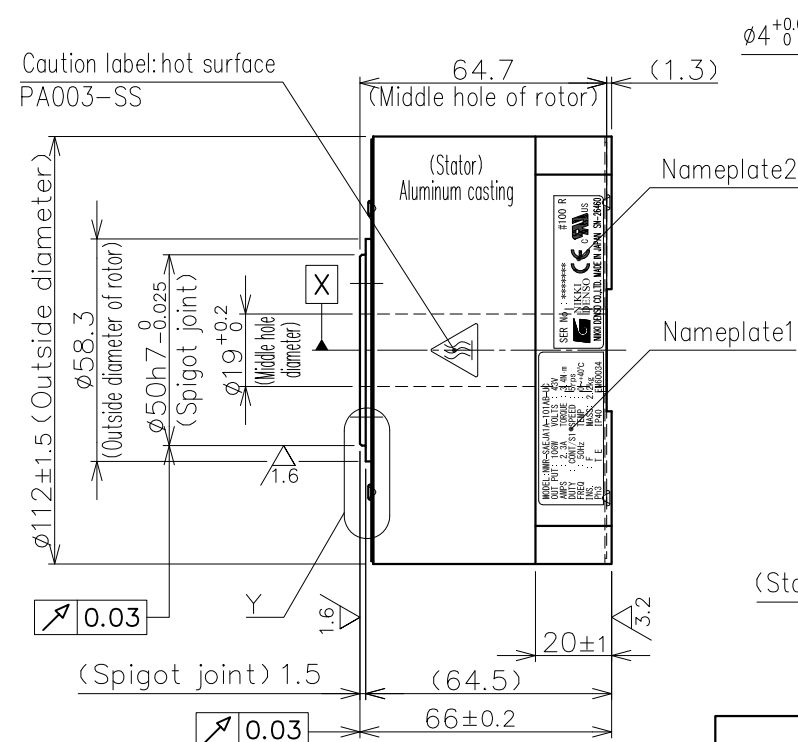
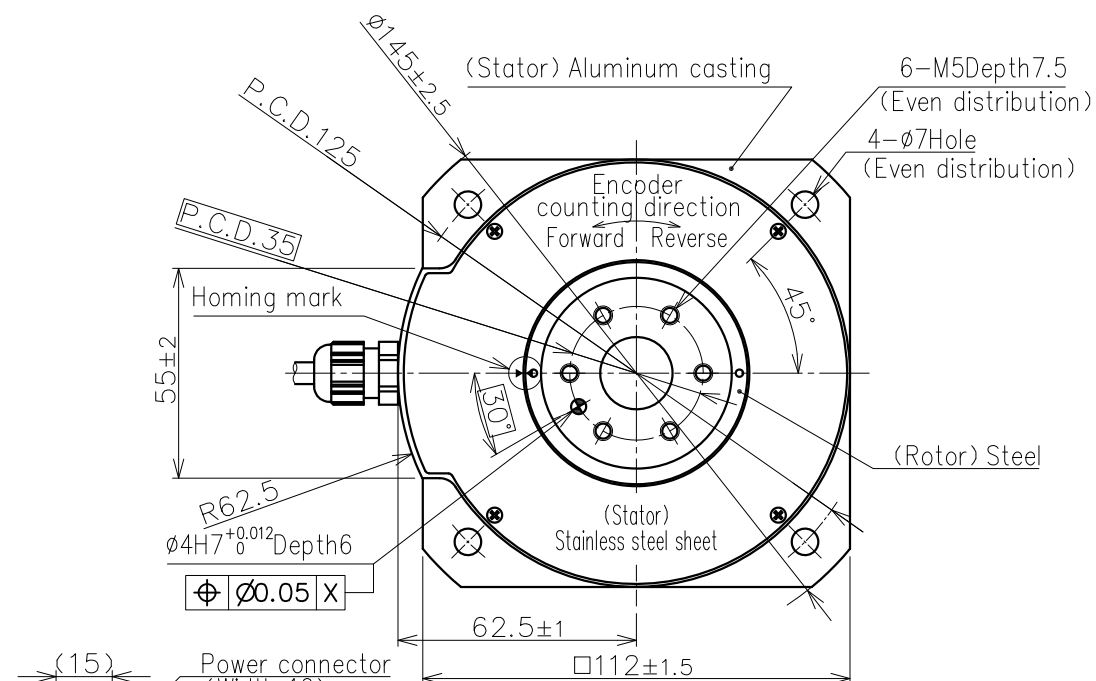
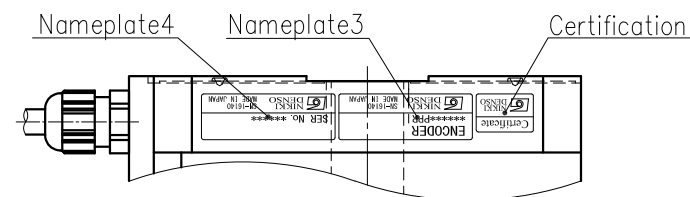




Nameplate list	
Index	Details
Nameplate 1	UL Motor serial No.1
Nameplate 2	UL Motor serial No.2
Nameplate 3	Encoder type, Resolution
Nameplate 4	Encoder software

	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		Encoder connector pin assignment	
Pin	Signal	Pin	Signal
B1	→ B8	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)

Specifications			
Items	Unit	Specifications	
Power source	ACV	Single phase 100V	
Paired servo driver	—	100W (VOL, MPH)	200W (VPS)
Rated torque (Note 4)	N·m	3.0	3.4
Max. torque (Note 4)	N·m	7.5	8.5
Rated current (Note 4)	A	2.0	2.3
Rated rotation speed	rps	5	
Rated output	W	106	
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	0.00039	
Mass	kg	2.2	
Magnetic pole detection	Absolute	position detection	
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

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.
4. If the rated torque of 3.4N・m (Max. torque 8.5N・m) output is required for VC2 or VPH servo driver, please pair with the servo driver of 200W output.

◆ 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-83990A.dwg	ENTRY No.	R1-72176	PRODUCT No.	248-2361
					APPROVED	CHECKED	DESIGNED	FINISH	MODEL	DISC Motor ND110-65-FSB-UC (ABS_100V) NMR-SAEJA1A-101AB-UC
								MATERIAL	TITLE	Dimensions (ABS_100V)
								Refer drawing	DRAWING No.	SE-83990A
REV. MARK	REV. NOTE	APPROVED DATE	CHECKED DATE	DESIGNED DATE	CKD NIKKI DENSO CO., LTD			SCALE	1/2	REV.
ENTRY No.								third angle projection		