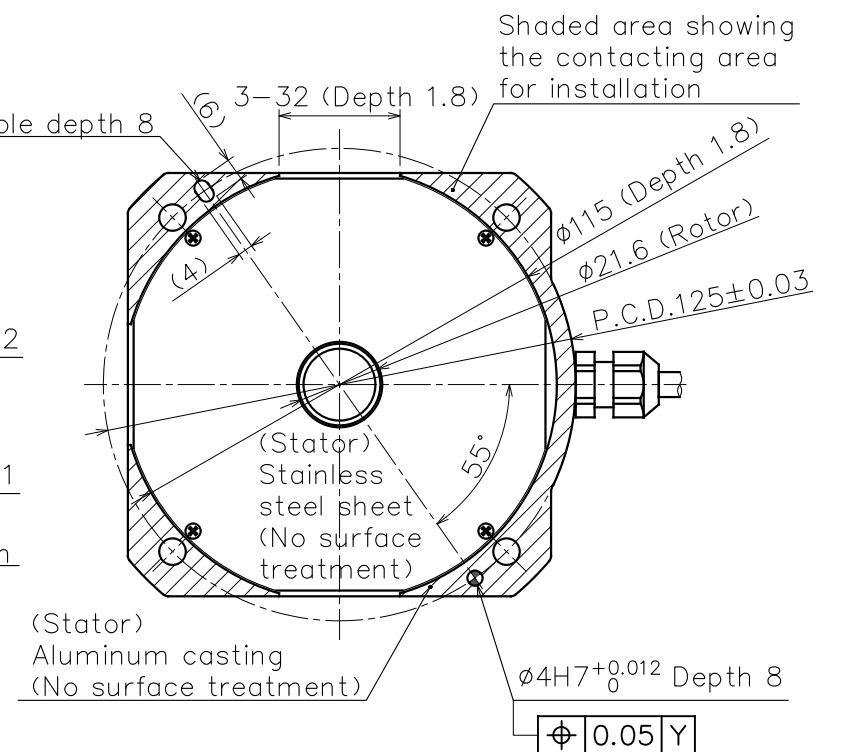
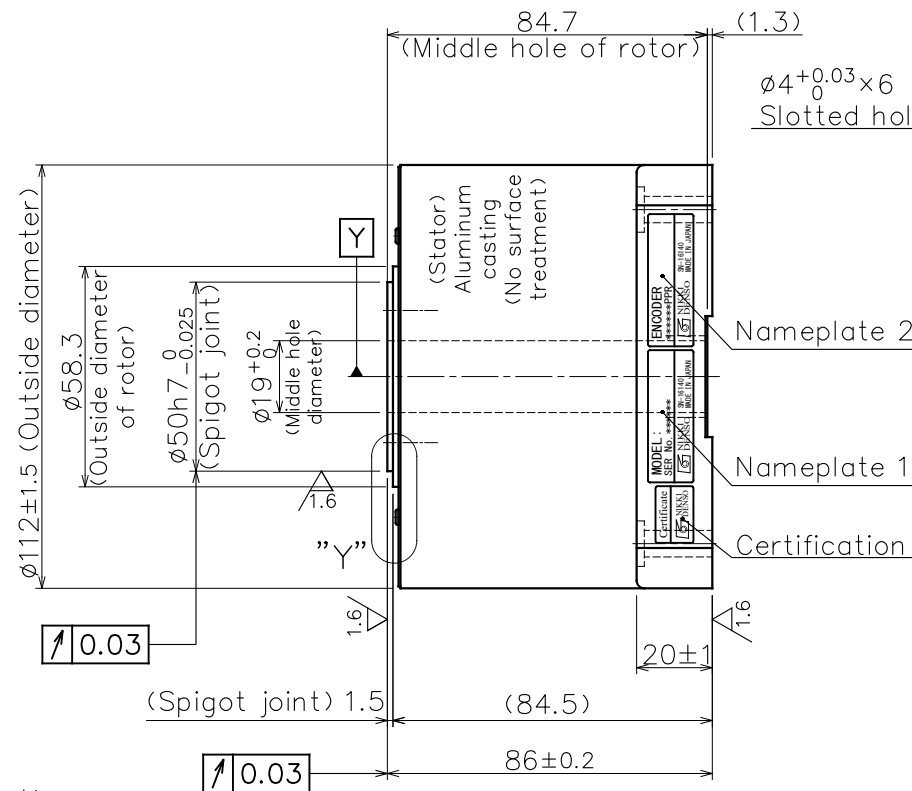
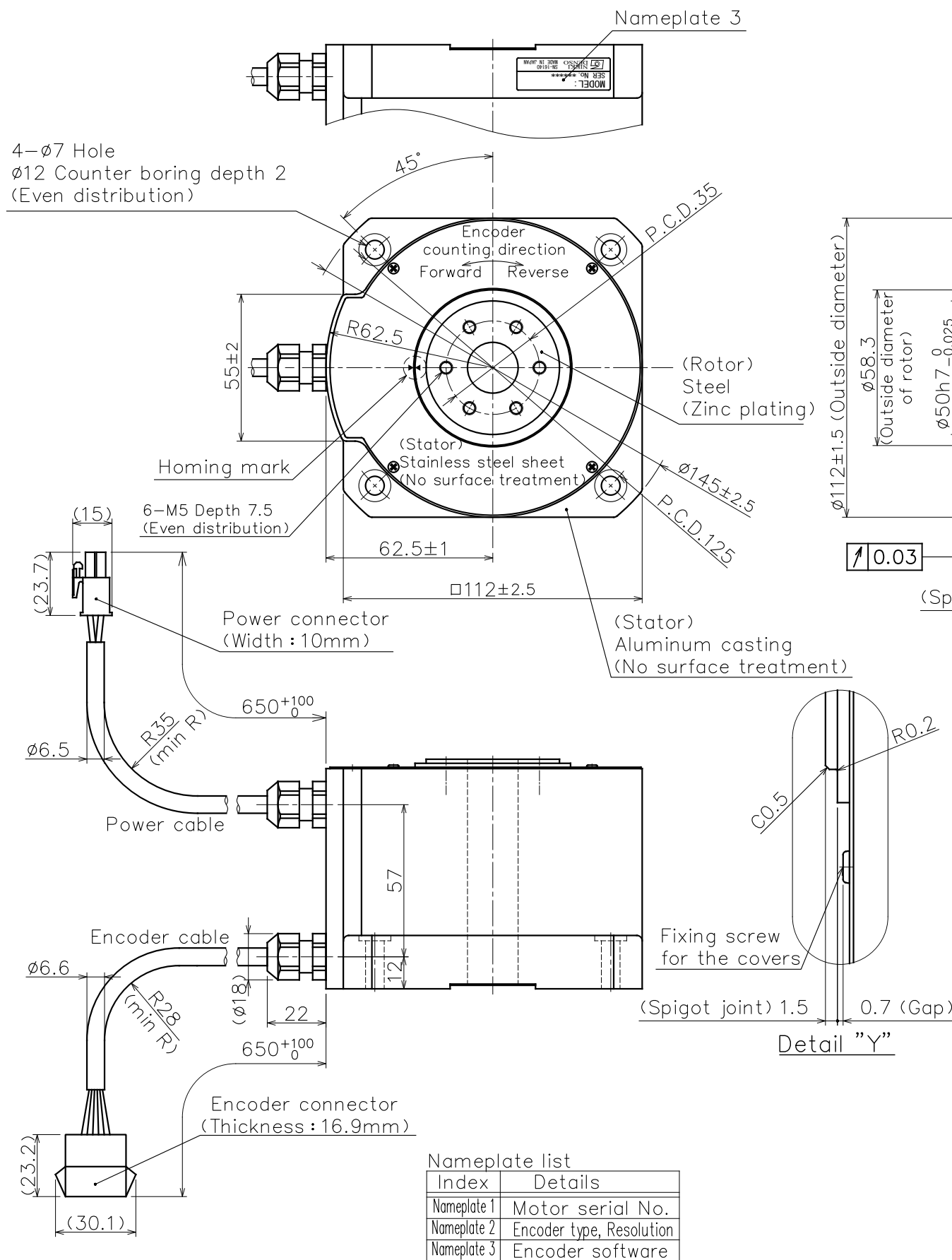
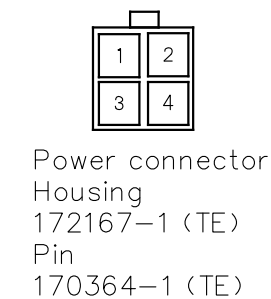




Specifications

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 AC	
Paired servo driver	400W	
Duty type	—	Continuous (S1)
Mounting attitude	Horizontal (Rotor facing upward)	★
Protection class	IP	42
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



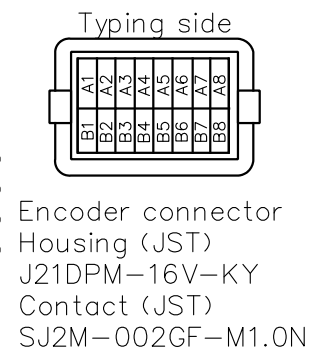
Power connector pin assignment

Pin	Phase	Line color
1	U	Red
2	V	White
3	W	Black
4	Ground	Green

Encoder connector pin assignment

Pin	Signal	Pin	Signal
A1	EP5	A5	N.C.
B1	GND	B5	N.C.
A2	EP5	A6	Reserved (Caution2)
B2	GND	B6	Reserved (Caution2)
A3	SD1	A7	Reserved (Caution2)
B3	SD1*	B7	Reserved (Caution2)
A4	N.C.	A8	N.C.
B4	N.C.	B8	FG

Un-used PINS : A4, A5, A8, B4 and B5



Caution

- 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.

◆ 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-79080.dwg	Entry no. R.1-7.1.7.6.1	Product no. 2.4.7-9.0.8.1
Approved	Checked	Designed	Surface treatment Refer drawing
Material Refer drawing	Scale 1/2	Third angle projection	Model DISC motor ND110-85-FS (ABS 200V) NMR-SAUJA2A-221A Title Dimensions (ABS 200V) Drawing No. S E - 7 9 0 8 0 REV.
Rev. mark Entry No.	Rev. note	Approved Date	Checked Date
Designed Date	Designed Date	Designed Date	Designed Date

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