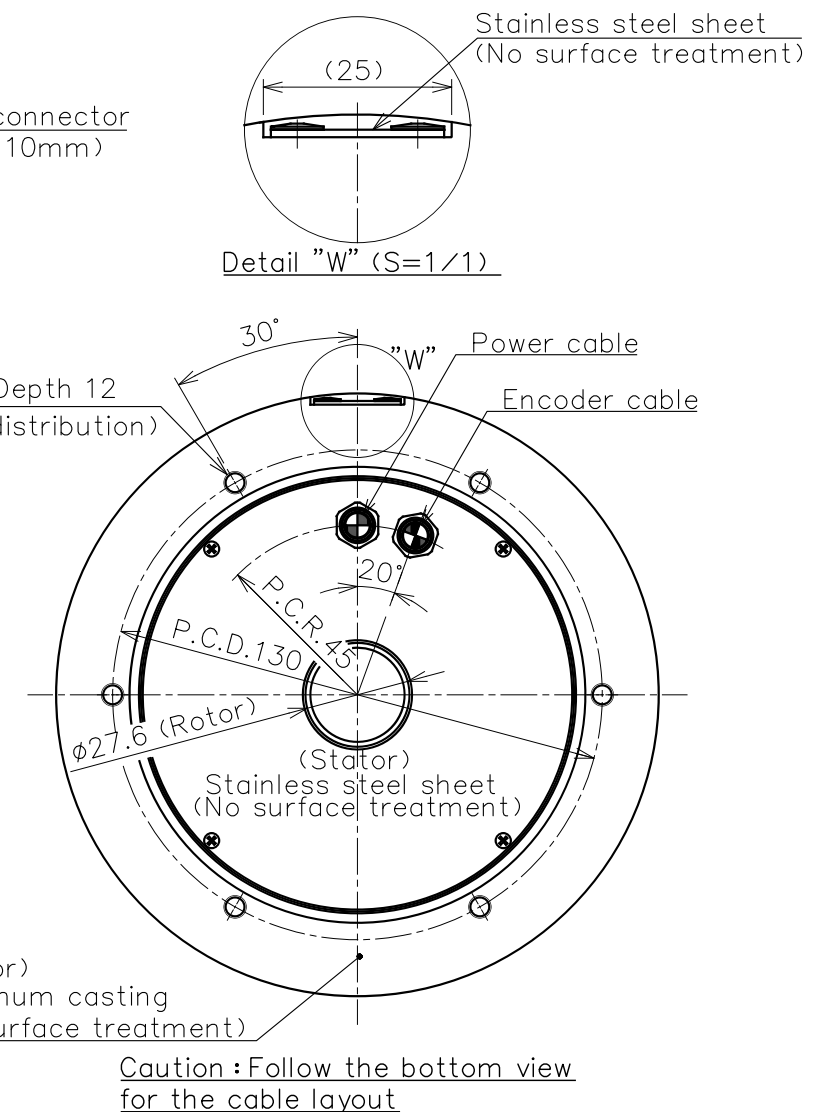
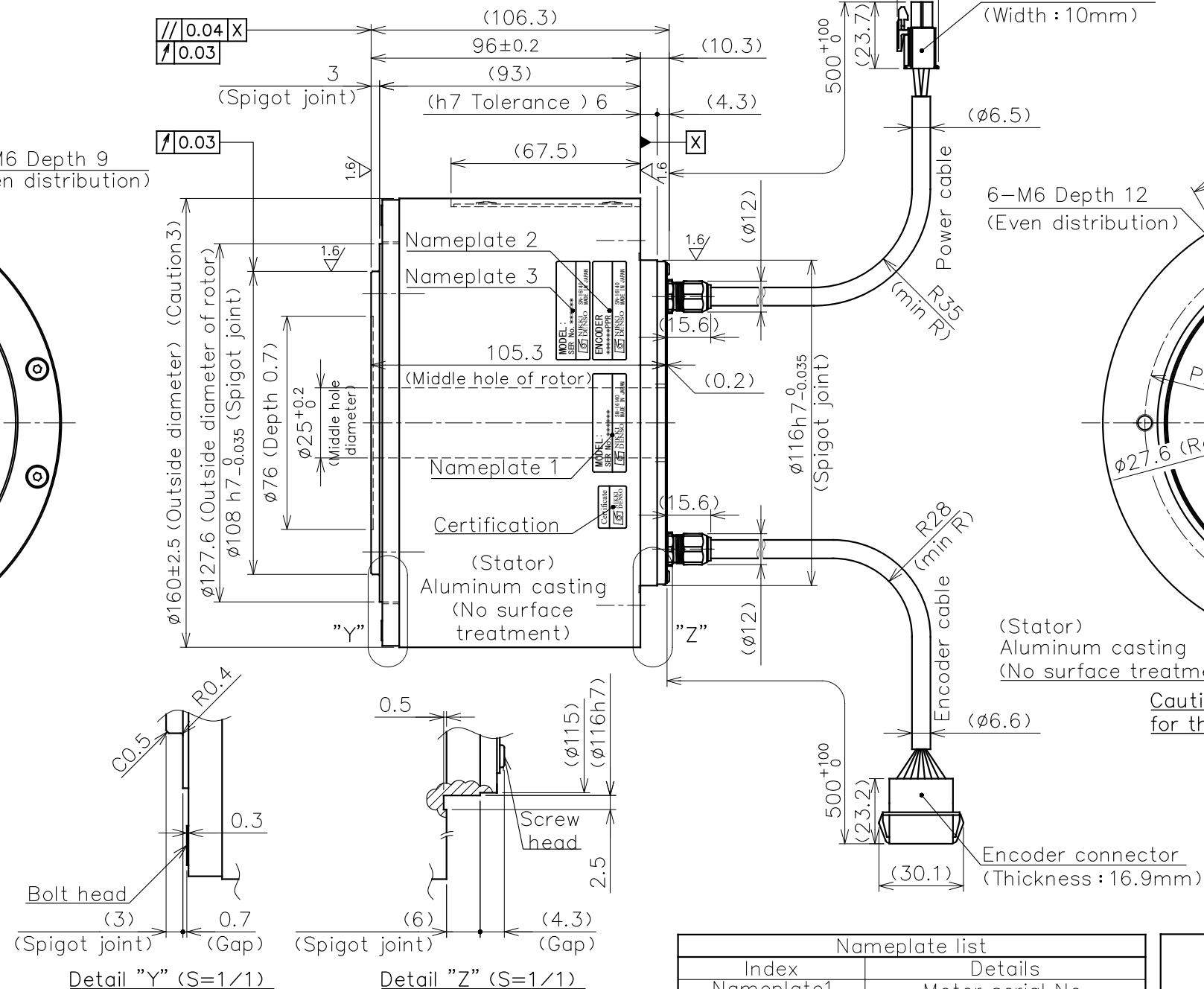
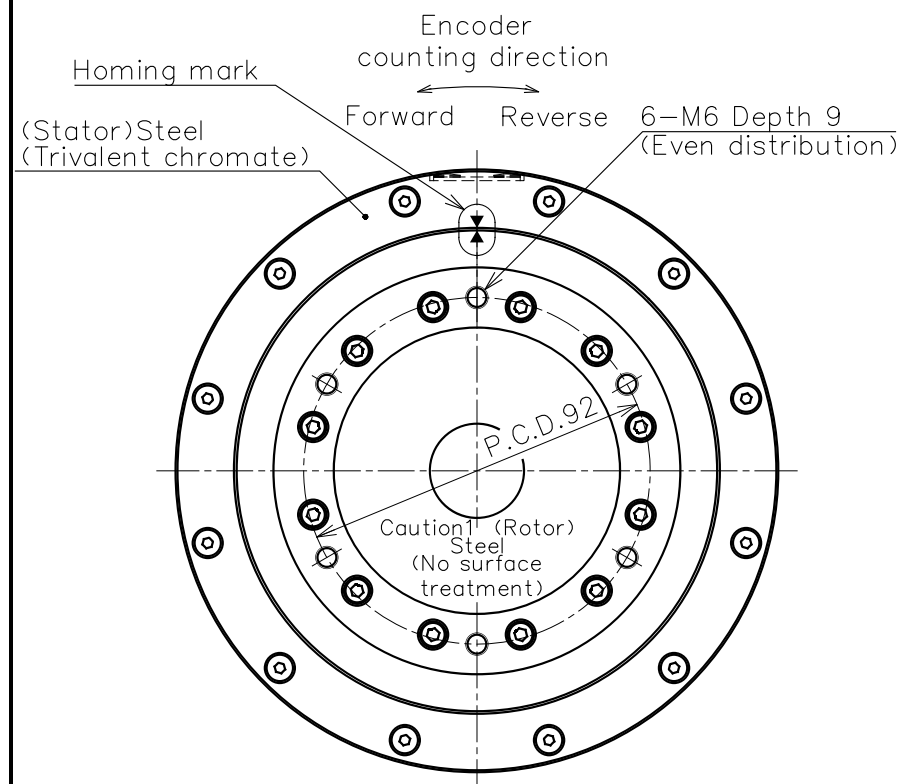




Specifications

Items	Unit	Specifications
Rated torque	N·m	10
Max torque	N·m	23
Rated current	A	3.1
Rated rotation speed	rps	4
Rated output	W	251
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	280
Allowable axial load	N	22,500
Radial runout (No load)	mm	0.03
Axial runout (No load)	mm	0.03
Parallelism	mm	0.04
Absolute position accuracy	arc second	±50 (OP: ±10)
Repeat accuracy (Back and forth)	arc second	±1
Rotor moment of inertia	kg·m ²	0.0058
Mass	kg	8.2
Magnetic pole detection	Absolute position detection	
Power Source	ACV	3-phase 200V AC
Paired servo driver	kW	0.4
Duty type	—	Continuous (S1)
Mounting attitude	Horizontal (Rotor facing up and down direction)	
Protection class	IP	44
Operating temperature	℃	0~40
Humidity (Non-condensing)	%	85 or lower
Vibration resistance	G	1
Withstand voltage	AC 1500V for 1 min only	
Insulation resistance	Ω	100M or higher

Caution

- 1.No surface treatment on the rotor.
Please remove the anticorrosive coating before using the motor.
- 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.Motor outer periphery is the casting surface, and certain irregularity may be found.
- 4.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.

Nameplate list	
Index	Details
Nameplate1	Motor serial No.
Nameplate2	Encoder type, Resolution
Nameplate3	Encoder software

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

Housing: 172167-1 (TE)
Contact: 170364-1 (TE)

The diagram shows the J21DPM connector with the typing side indicated by an arrow pointing from B1 to B8. The pin assignments are as follows:

Encoder connector pin assignment			
Pin	Signal	Pin	Signal
A1	EP5	A5	N.C.
B1	GND	B5	N.C.
A2	EP5	A6	Reserved
B2	GND	B6	Reserved
A3	SD1	A7	Reserved
B3	SD1*	B7	Reserved
A4	N.C.	A8	N.C.
B4	N.C.	B8	FG

Additional information from the diagram:

- Typing side: B1 → B8
- Pin A1 → A8
- JST Housing: J21DPM-16V-KY
- Contact: SJ2M-002GF-M1.0N

			NOTE File name : SE-79440.dwg			Entry no. R1-717,66			Product no. 2,4,8-0,15,0		
			Approved			Checked			Designed		
									Surface treatment Refer drawing		
									Model r.DISC.motor.DD160-96-LS (ABS) DD16-251L04CNN		
									Title Dimensions (ABS)		
									Material Refer drawing		
									Scale 1 / 2		
Rev. mark			Rev. note			APPROVED DATE			CHECKED DATE		
Entry no.						DESIGNED DATE			REV.		
						 NIKKI DENSO CKD NIKKI DENSO CO., LTD			Third angle projection		
									S.E-79440		