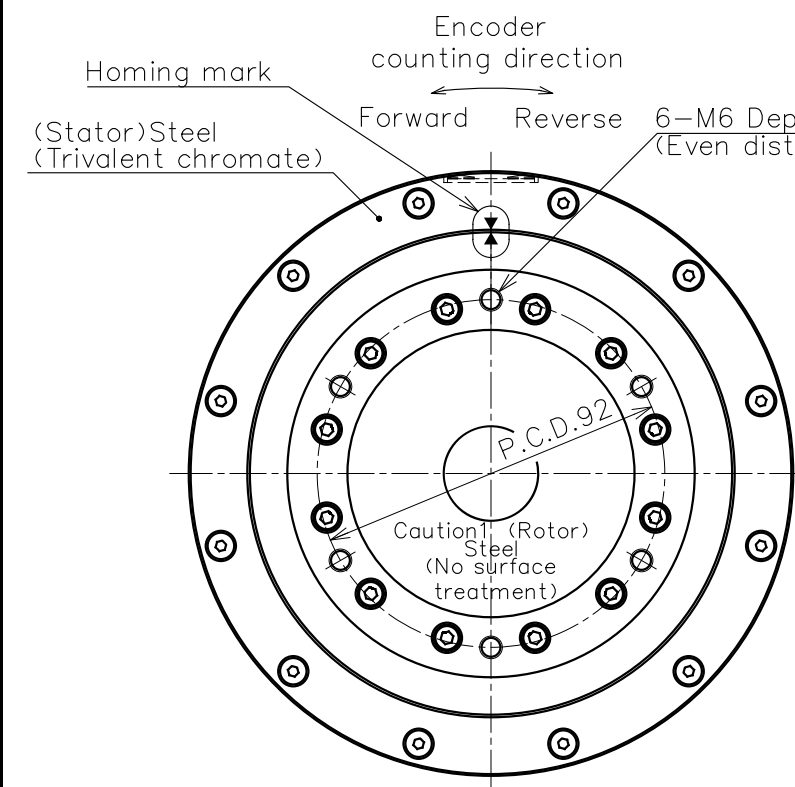




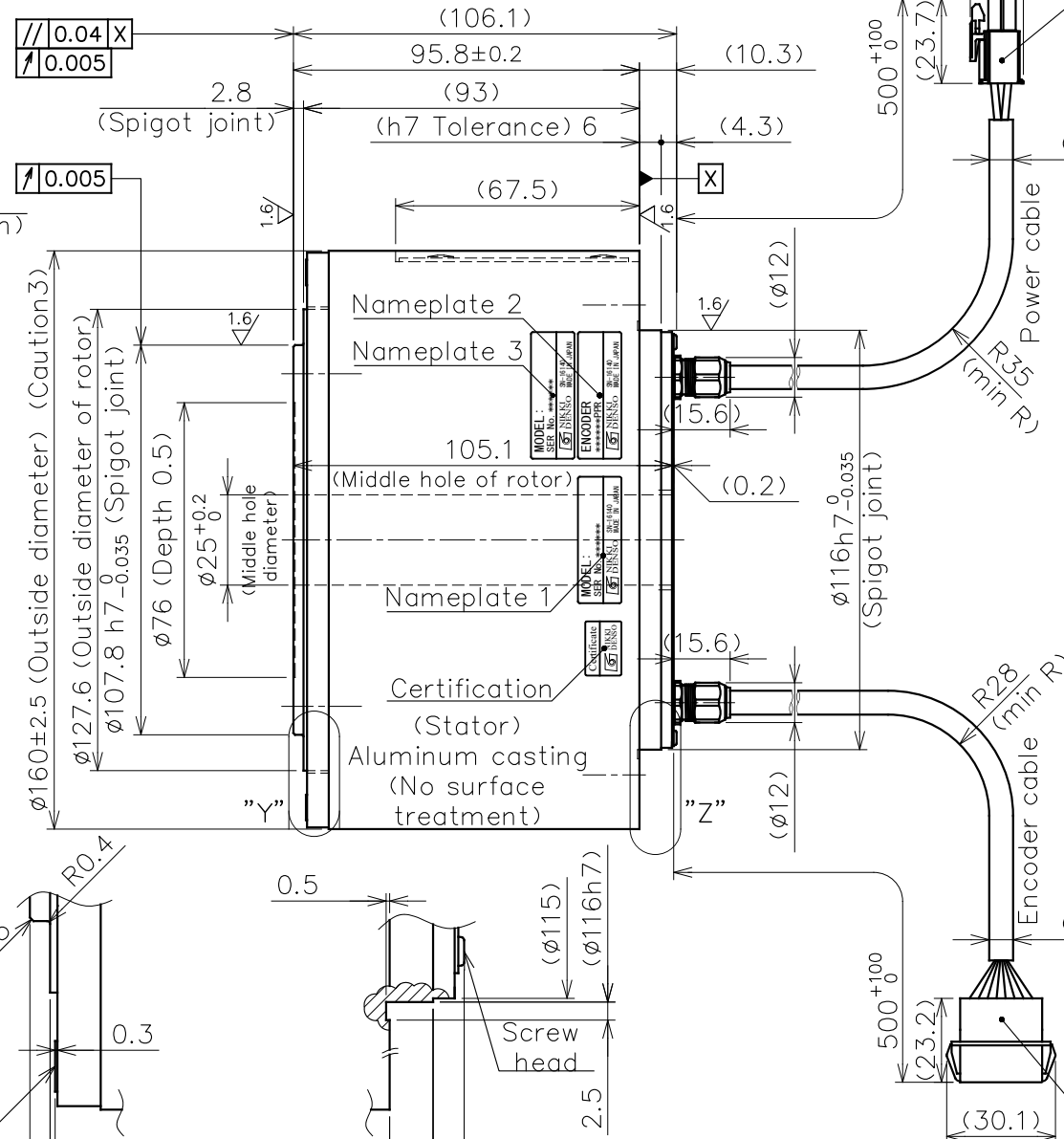
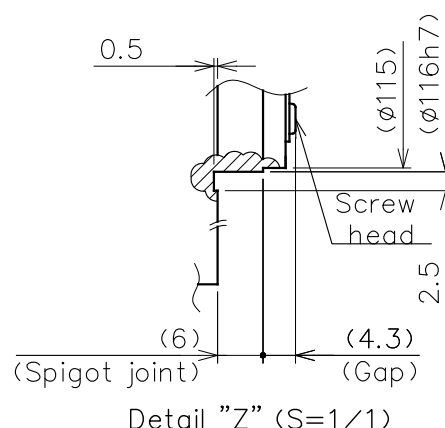
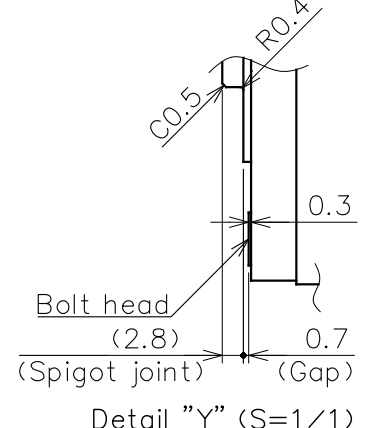
Specifications

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	0.005
Axial runout (No load)	mm	0.005
Parallelism	mm	0.04 (OP: -)
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	°C	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.

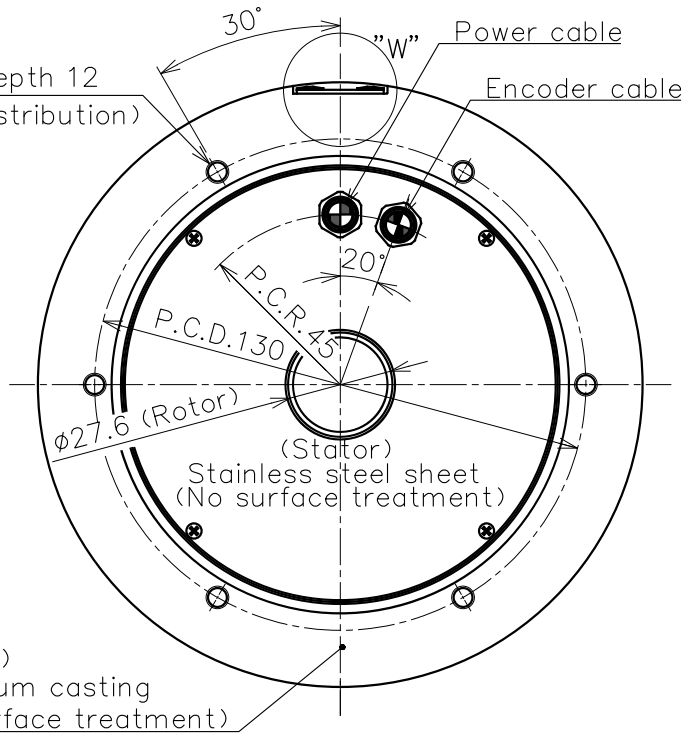
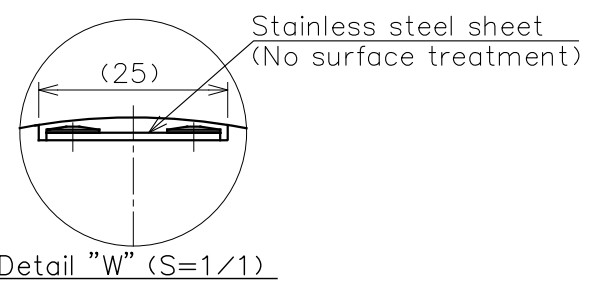
- ◆ The life of bearing and runout accuracy are different by load condition.
- ★ The value adjustment of parallelism is available as option. For the details of specification value, please consult with our sales.
- ★ Please make sure to consult with us if the mounting is other than horizontal attitude.



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)			

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
JST			
Housing : J21DPM-16V-KY			
Contact : SJ2M-002GF-M1.0N			



Rev. mark	Rev. note	APPROVED	CHECKED	DESIGNED
Entry no.		DATE	DATE	DATE

NOTE File name : SE-79450.dwg			Entry no. R.1-7.1.7.6.6	Product no. 2.4.8-0.1.9.0
Approved	Checked	Designed	Surface treatment	Model
			Refer drawing	τDISC.motor.DD16Q-96-LSP5 (ABS) DD16-251L04CNN-P
			Material	Title
			Refer drawing	Dimensions (ABS) High precision
			Scale	Drawing No.
			1 / 2	S E - 7 9 4 5 0
			Third angle projection	REV.

NIKKI DENSO CKD NIKKI DENSO CO., LTD

Model	τDISC.motor.DD16Q-96-LSP5 (ABS) DD16-251L04CNN-P
Title	Dimensions (ABS) High precision
Drawing No.	S E - 7 9 4 5 0
REV.	