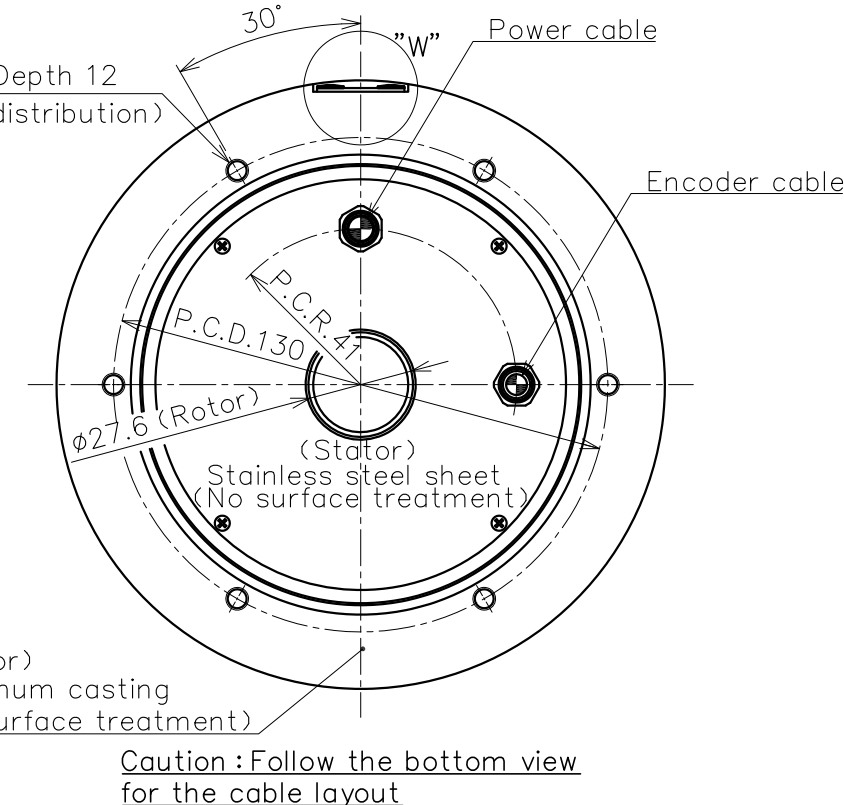
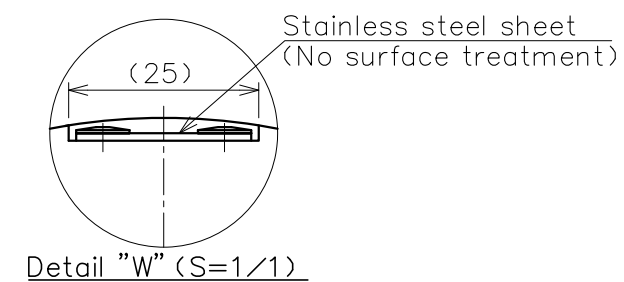
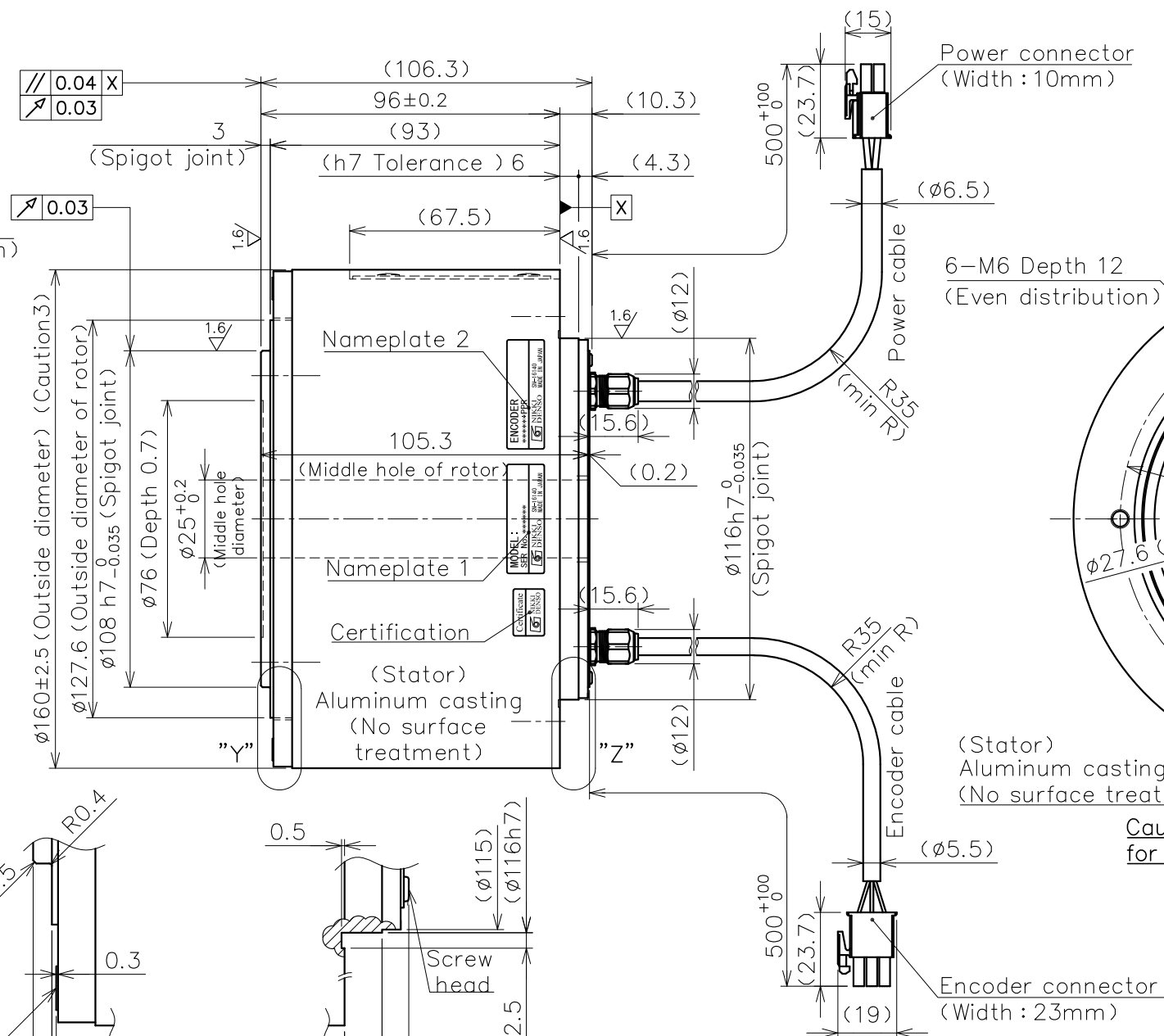
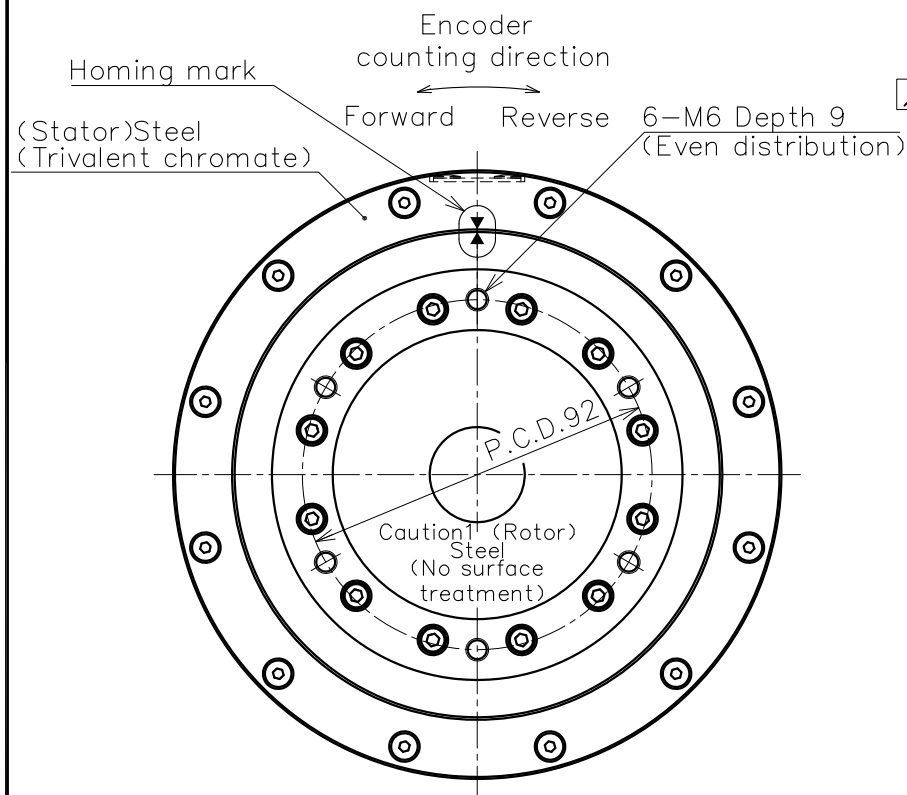




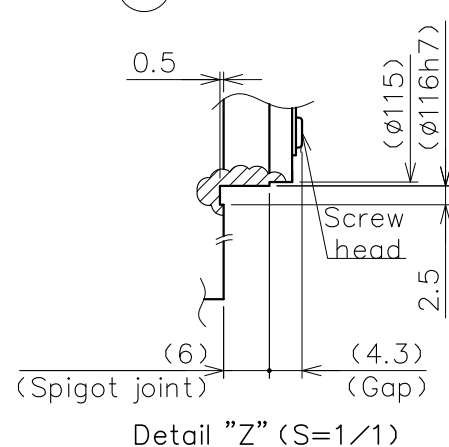
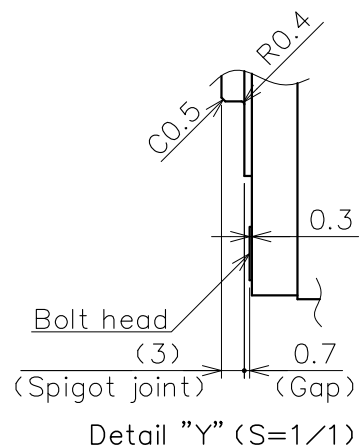
Specifications

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 incremental	
The signal output	Pulse out put of A phase and B phase	
Interpolation unit	Built-in motor	
Detection pulse	PPR	3,200,000
Electrical detection resolution	arc second	0.405
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	※	
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.

- ※ Selection of Magnetic pole detection or Automatic pole detection.
- ◆ 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

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
1	A	11	+5V
2	A*	12	GND
3	B	13	+5V
4	B*	14	GND
5	Z	15	FG
6	Z*		
7	PS		
8	PS*		
9	PC		
10	PC*		
Housing : 172171-1 (TE)			
Contact : 170363-1 (TE)			

NOTE File name : SE-94150.dwg			Entry no. R1-729,15	Product no. 248-0,130
Approved	Checked	Designed	Surface treatment	Model
			Refer drawing	τDISC motor DD160-96-LS (INC) DD16-251L04ANN
			Material	Title
			Refer drawing	Dimensions (INC)
			Scale	Drawing No.
			1/2	SE-94150
			Third angle projection	REV.