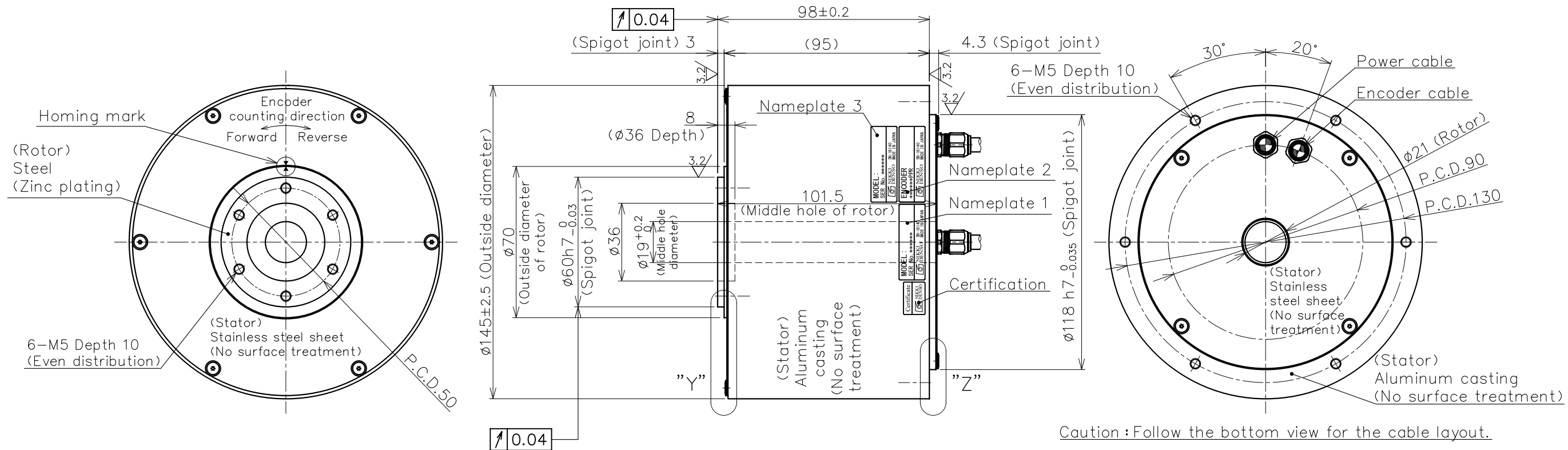




Caution : Follow the bottom view for the cable layout.

Nameplate list

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

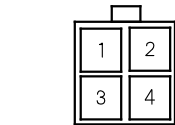
Power connector pin assignment

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

Encoder connector pin assignment

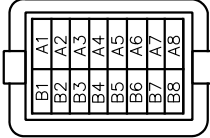
Pin	Signal	Pin	Signal
A1	EP5	A5	N.C.
B1	GND	B5	N.C.
A2	EP5	A6	Reserved
B2	GND	B6	Reserved
A3	SD1	A7	Reserved
B3	SD1*	B7	Reserved
A4	N.C.	A8	N.C.
B4	N.C.	B8	FG

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



Power connector Housing
172167-1 (TE)
Pin
170364-1 (TE)

Typing side



Encoder connector Housing (JST)
J21DPM-16V-KY
Contact (JST)
SJ2M-002GF-M1.0N

Specifications

Items	Unit	Specifications
Rated torque	N·m	15.0
Max torque	N·m	37.0
Rated current	A	4.0
Rated rotation speed	rps	5
Rated output	W	471
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	17.3
Allowable axial load	N	2,400
Radial runout (No load)	mm	0.04
Axial runout (No load)	mm	0.04
Rotor moment of inertia	kg·m ²	0.00134
Mass	kg	5.9
Magnetic pole detection	Absolute position detection	
Power Source	ACV	3-phase 200V AC
Paired servo driver	800W	
Duty type	—	Continuous (S1)
Mounting attitude	Horizontal	(Rotor facing upward) ★
Protection class	IP	42
Operating temperature	℃	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

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.

NOTE	File name : SE-79200.dwg	Entry no. R.1-7.1.7.6.2	Product no. 2.4.7-9.1.2.1
Approved	Checked	Designed	Surface treatment
			Refer drawing
			Material
			Refer drawing
			Scale 1/2
			Third angle projection
Rev. mark	Rev. note	Approved Date	Checked Date
Entry No.		Designed Date	
			NIKKI DENSO CKD NIKKI DENSO CO., LTD
			Model
			τDISC motor ND140-95-LS (ABS) NMR-SRFJA2A-471A
			Title
			Dimensions (ABS)
			Drawing No.
			REV.
			SE-79200