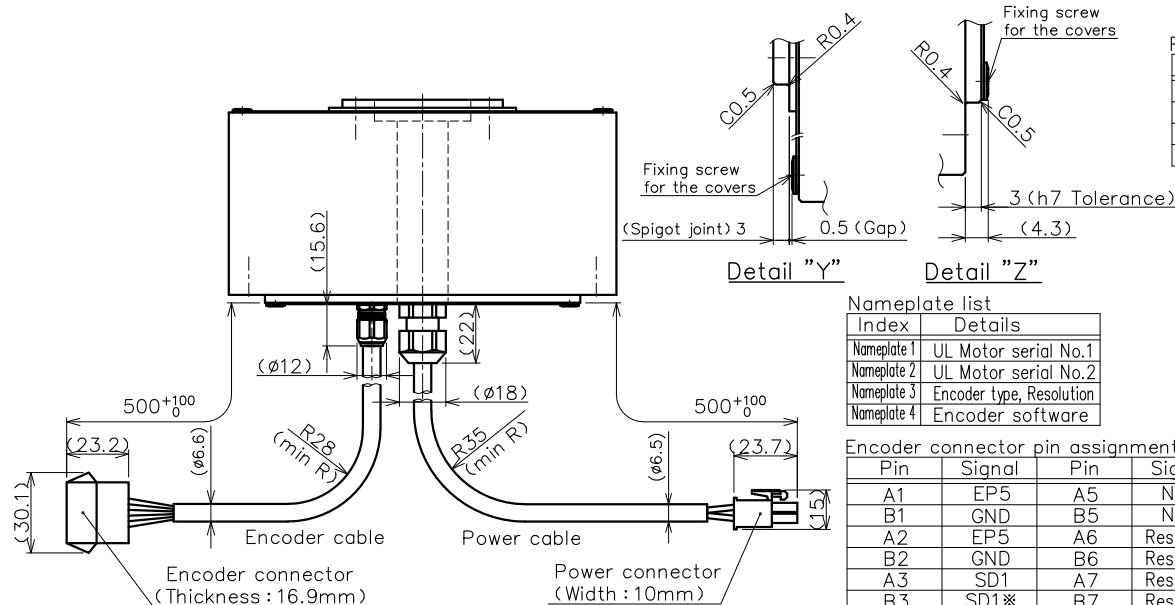
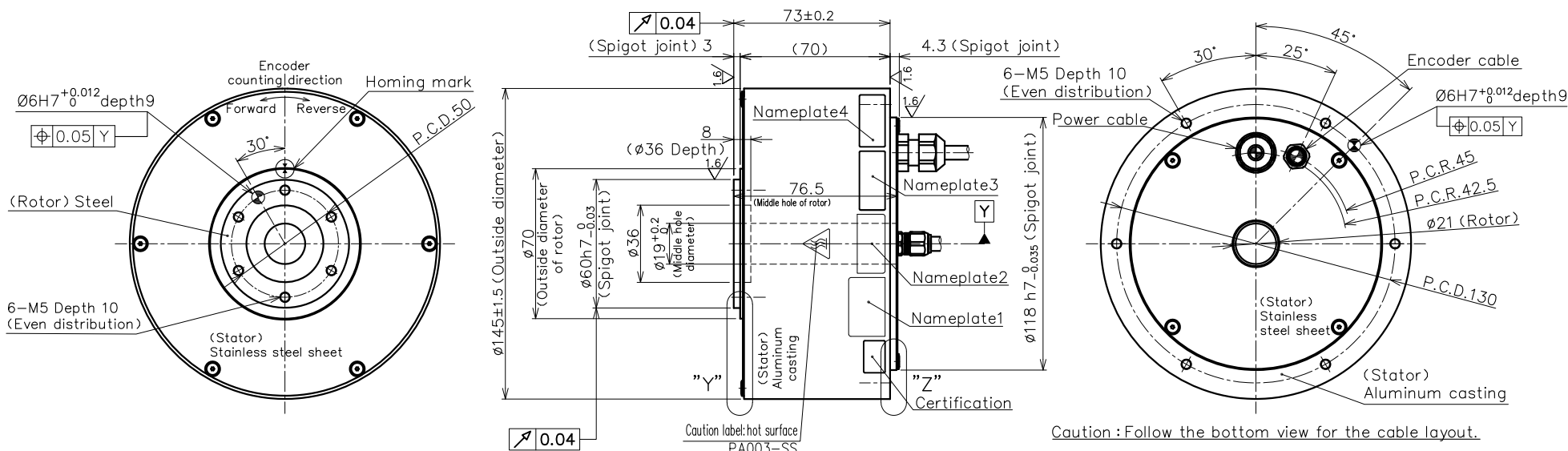


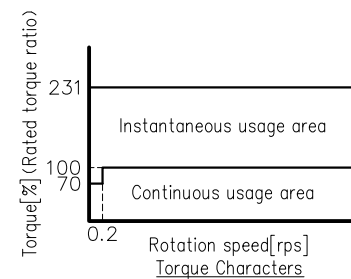


Power connector pin assignment

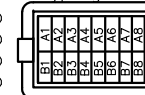
Pin	Phase	Line color
1	U	Black
2	V	Black
3	W	Black
4	Ground	Green/Yellow



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	8.7
Max torque	N·m	20.1
Rated current	A	3.4
Rated rotation speed	rps	5
Rated output	W	275
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	0.00084
Mass	kg	4.1
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	40
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

Caution

1. 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.
2. Please do not wire the pin (A6~B7) which is reserved for encoder manufacturer to avoid the encoder troubles.
3. Special model motor, please refer to the special model drawing.

Rev. mark	Rev. note	Approved	Checked	Designed
Entry No.		Date	Date	Date

NOTE	File name	SX-02100B.dwg
Approved	Checked	Designed

Entry no.	R1-735.13
Surface treatment	—
Material	
Refer drawing	
Scale	1/2
Third angle projection	

Product no.	248-5500
Model	DISC Motor ND140-70-LS-UC (ABS) NMR-SPECI-A2A-281A-UC
Title	Dimensions (ABS)
Drawing No.	SX-02100B
REV.	

- ◆ 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.