

**Nameplate list**

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

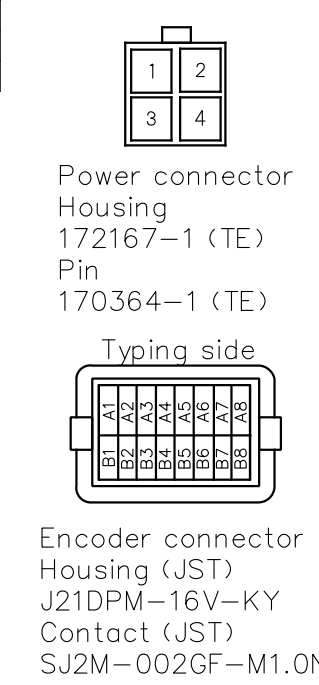
**Power connector pin assignment**

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 (Caution3)
B2	GND	B6	Reserved (Caution3)
A3	SD1	A7	Reserved (Caution3)
B3	SD1*	B7	Reserved (Caution3)
A4	N.C.	A8	N.C.
B4	N.C.	B8	FG

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



**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	0.01
Axial runout (No load)	mm	0.01
Rotor moment of inertia	kg·m <sup>2</sup>	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	°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**

- No surface treatment on the hatching area of rotating position (top surface and spigot joint). Please remove the anticorrosive coating before using the motor.
- 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.

Rev. mark	Rev. note	Approved Date	Checked Date	Designed Date	NOTE File name: SE-79210.dwg	Entry no. R1-71762	Product no. 2,47-9271
Entry No.					Approved	Checked	Designed
					Surface treatment	Refer drawing	Model
					Material	Refer drawing	τDISC motor ND140-95-LSP (ABS) NMR-SRFJA2A-471AP
					Scale	1/2	Title
					Third angle projection		Dimensions (ABS) High precision
							Drawing No.
							REV.
							SE-79210



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