

Nameplate list

Index	Details
Nameplate1	Motor serial No.
Nameplate2	Encoder type, Resolution
Nameplate3	Encoder software

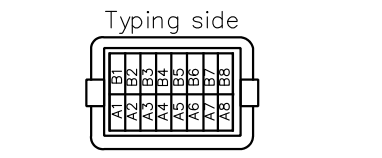
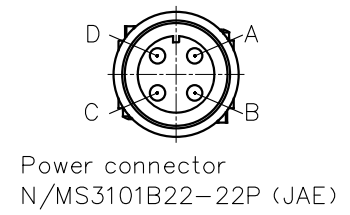
Power connector pin assignment

Pin	Signal	Line color
B1	U	Red
B2	V	White
A1	W	Black
A2	Ground	Green

Encoder connector pin assignment

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



(Caution 3) Encoder connector
 (Caution 3) Housing
 (Caution 3) J21DPM-16V-KY (JST)
 (Caution 3) Contact
 (Caution 3) SJ2M-002GF-M1.0N (JST)

Specifications

Items	Unit	Specifications
Rated torque	N·m	500
Max torque	N·m	1,000
Rated current	A	36
Rated rotation speed	rps	2
Rated output	W	6,283
Encoder type		Optical absolute (single-turn)
The signal output		Serial communication
Interpolation unit		Built-in motor
Detection pulse	ppr	6,815,744
Electrical detection resolution	arc second	0.191
Allowable moment load	N·m	315
Allowable axial load	N	14,500
Radial runout (No load)	mm	0.05
Axial runout (No load)	mm	0.05
Rotor moment of inertia	kg·m ²	0.393
Mass	kg	75.0
Magnetic pole detection		Absolute position detection
Power Source	ACV	3-phase 200V AC
Paired servo driver		7.5KW
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 rotor. 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.
- Motor outer periphery is the casting surface, and certain irregularity may be found.

◆ 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.

Rev. mark	Rev. note	APPROVED	CHECKED	DESIGNED	DATE	DATE	DATE	Note	File name : SE-79420.dwg	Entry no. R.1-71765	Product no. 2,47-9,20*
Entry No.								Approved	Checked	Designed	Surface treatment
											Model
											Refer drawing
											Material
											Refer drawing
											Scale
											1/3.5
											Drawing No.
											Third angle projection
											REV.
											SE-79420

NIKKI DENSO CKD NIKKI DENSO CO., LTD

Dimensions (ABS)

S E - 7 9 4 2 0