

MA75A

750W Low inertia

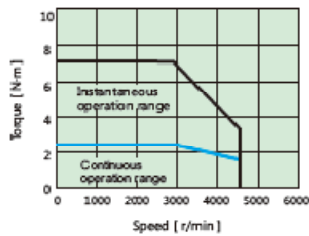
MH75A

750W High inertia

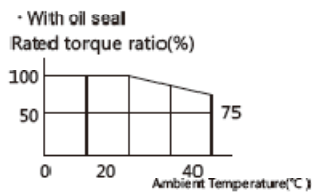
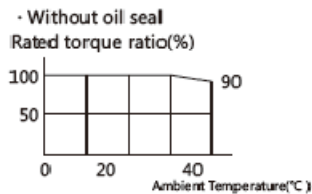


NT characteristics

NT characteristics



Continuous torque-Ambient temperature



Specifications

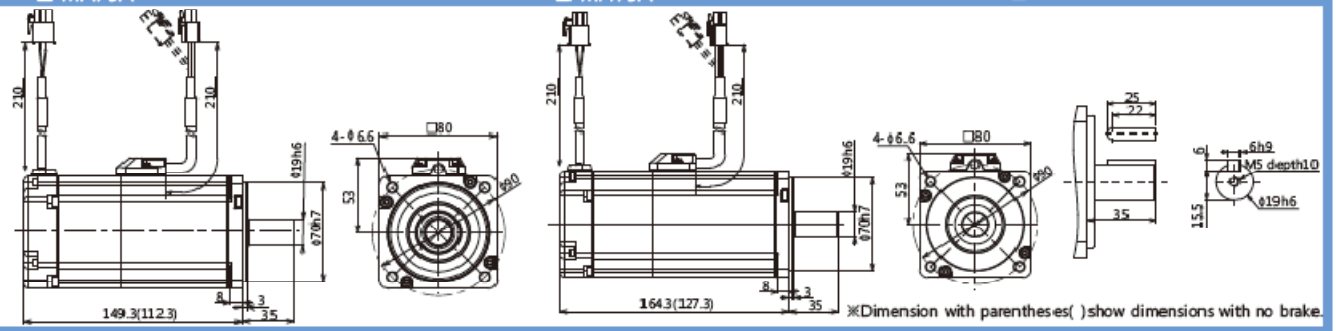
Items		Units	Specification	
Model Name			750W Low inertia MA075A	750W High inertia MH075A
Model Name		M□□□□□2□□**		
Fitting flange size		mm	□80	
Approximate mass	Without brake	Kg	2.5	2.7
	With brake		3.3	3.5
Rate d voltage		V	AC200	
Rate d output		W	750	
Rate d torque		N·m	2.39	
Instantaneous max. torque		N·m	7.1	
Rate d current		Arms	4.3	
Instantaneous max. current		Arms	12.8	
Rate d speed		r/min	3000	
Max. speed		r/min	4500	
Torque constant		N·m/A	0.61	
Induced voltage constant per phase		MV(r/min)	21.3	
Rate d power rate	Without brake	KW/S	64.1	35.9
	With brake		52.8	32.1
Mechanical time constant	Without brake	ms	0.53	0.94
	With brake		0.64	1.06
Electrical time constant		ms	4.3	
Moment of inertia	Without brake	×10 ⁻⁴ kg·m ²	0.89	1.59
	With brake		1.08	1.78
Brake specification	Usage	—	Holding	
	Rate d voltage	V	DC24V±10%	
	Rate d current	—	0.4	
	Static friction torque		2.39 or more	
	Suction time	ms	70 at 100% voltage	
	Release time	ms	20 at 100% voltage	
	Release voltage	V	DC1V or more	

External Dimensions

MA75A

MH75A

Shaft-end dimension



Supplement to Motor Specification

Ambient conditions for use

Items	Units	Specification
Ambient temperature for use	°C	0~40(Without condensation) Note 1)
Ambient humidity for use	%RH	20~85(Without condensation)
Ambient temperature for storage	°C	-20~65(Highest temperature guaranteed: 80 degrees, 72h ours) Note 2)
Ambient humidity for storage	%RH	20~85(Without condensation)
Atmosphere for use/storage	—	Indoors(Not subject to rainwater or direct sunlight); free from corrosive gas, flammable gas, flammables, grinding fluid, oil mist, or dust
Insulation class	—	Class B
Insulation resistance	—	1000 VDC meg ger 5MΩ or more
Dielectric strength	—	At 1500 V AC 50/60 Hz for 1 minute 10mA or less
Vibration class	—	V 15
Vibration resistance	m/s ²	49 (5G)
Impact resistance	m/s ²	98 (10G)
Protective construction	—	IP65(Excluding shaft penetrating section and connectors)
Time rating	—	Continuous
Operating position	—	All directions
Direction of rotation	—	Normal: CW, Reverse: CCW



*Note 1) The temperature for use is the temperature measured at a point 5cm apart from the motor.
 *Note 2) This is a temperature that can be tolerated only for a short period such as during transportation.

Encoder specification

Items	Units	Specification
Motor Model Name	—	M□□□□□□□□N** M□□□□□□□□A**
Encoder specification	—	17 bit (incremental) 17 bit (absolute)
Encoder room temperature	°C	0~85
Resistance to external magnetic field	mT	±2 (20G) or less
Rated voltage	V	DC 4.5V~5.5V
External battery voltage	V	— DC 2.4V~5.5V
Current consumption	mA	160 typ
State of low power consumption	μA	— Typ 10μA
Single revolution resolution	—	131,072(17bit)
Multi-revolution count	count/turn	— 65,536 Count
Maximum speed	r/min	6,000
Input/ Output form	—	EIA - 422B(half-duplex)
Count-up direction	—	CCW
Communication specification	Transmission method	— Half-duplex asynchronous serial communication
	Communication speed	Mbps



Output shaft permissible load

Items	Units	Specification							
		50W MM500□2	100W MM101□2	200W MA201□2 MH201□2	400W MA401□2 MH401□2	750W MA751□2 MH751□2	1KW MM102□2 MH102□2	1.5KW MM152□2 MH152□2	2KW MM202□2
Permissible radial load	N	68	68	245	245	392	490	490	490
Permissible thrust load	N	58	58	98	98	147	196	196	196



※At the midpoint of the thrust protrusion