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MHMF042L1U1 | MINAS A6 Family Servo Motor



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Part Number	MHMF042L1U1
Product	Servo Motor
Details	High inertia, Connector type
Product name	MINAS A6 Family Servo Motor
Features	More compact, more faster and more easy-to-use Servomotors that meet the demands of the present age.

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Spec Detail

Applicable Driver

As of July 25, 2018

Specifications and design of the products are subject to change without notice for the product improvement.

Spec Detail

Item	Specifications
Part Number	MHMF042L1U1
Details	High inertia, Connector type
Family Name	MINAS A6
Series	MHMF Series
Type	High inertia
Enclosure	IP67
About Enclosure	Except rotating portion of output shaft and connecting pin part of the motor connector and the encoder connector.
Environmental Conditions	For more details, please refer to the instruction manual.
Flange sq. dimension	60 mm sq.
Flange sq. dimension (Unit:mm)	60
Motor lead-out configuration	Connector
Motor encoder connector	Connector
Power supply capacity (kVA)	0.9

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Voltage specifications	200 V
Rated output	400 W
Rated current (A (rms))	2.1
Holding brake	without
Mass (kg)	1.2
Oil seal	with
Shaft	Key-way, center tap
Rated torque (N · m)	1.27
Continuous stall torque (N · m)	1.40
Momentary Max. peak torque (N · m)	4.46
Max. current (A (o-p))	10.4
Regenerative brake frequency (times/min)	Without option :No limit With option :No limit Option (External regenerative resistor) Part No. : DV0P4283
About regenerative brake frequency	Please refer to the details of [Motor Specification Description] , Note: 1, and 2.
Rated rotational speed (r/min)	3000
Rated rotational Max. speed (r/min)	6500
Moment of inertia of rotor ($\times 10^{-4}$ kg · m ²)	0.56
Recommended moment of inertia ratio of the load and the rotor	30 times or less
About recommended moment of inertia ratio of the load and the rotor	Please refer to the details of [Motor Specification Description] ,Note: 3.
Rotary encoder: specifications	23-bit Absolute/Incremental system
Notice	When using a rotary encoder as an incremental system (not using multi-turn data), do not connect a battery for absolute encoder.
Rotary encoder: Resolution	8388608

Permissible load

Item	Specifications
During assembly: Radial load P-direction (N)	392
During assembly: Thrust load A-direction (N)	147
During assembly: Thrust load B-direction (N)	196
During operation: Radial load P-direction (N)	245
During operation: Thrust load A, B-direction (N)	98
About permissible load	For details, refer to the [Motor Specification Description] "Permissible Load at Output Shaft".

→ [A6 Family Motor Specification Description\(PDF\)](#)

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