200 V MSMD 100 W [Low inertia, Small capacity]

Specif cations

			AC200 V	
Motor model *1	IP65		MSMD012G1□	MSMD012S1□
	IP67		–	–
Applicable driver *2	Model No.	A5Ⅱ, A5 series	MAD◇ T1505	
		A5ⅡE, A5E series	MAD◇ T1505E	–
	Frame symbol		A-frame	
Power supply capacity (kVA)			0.5	
Rated output (W)			100	
Rated torque (N·m)			0.32	
Momentary Max. peak torque (N·m)			0.95	
Rated current (A(rms))			1.1	
Max. current (A(o-p))			4.7	
Regenerative brake frequency (times/min) Note)1	Without option		No limit Note)2	
	DV0P4281		No limit Note)2	
Rated rotational speed (r/min)			3000	
Max. rotational speed (r/min)			5000	
Moment of inertia of rotor ($\times 10^{-4}$ kg·m^2)	Without brake		0.051	
	With brake		0.054	
Recommended moment of inertia ratio of the load and the rotor Note)3			30 times or less	
Rotary encoder specif cations Note)5			20-bit Incremental	17-bit Absolute
	Resolution per single turn		1048576	131072

●Brake specif cations (For details, refer to P.183)

(This brake will be released when it is energized. Do not use this for braking the motor in motion.)

Static friction torque (N·m)	0.29 or more
Engaging time (ms)	35 or less
Releasing time (ms) Note)4	20 or less
Exciting current (DC) (A)	0.3
Releasing voltage (DC) (V)	1 or more
Exciting voltage (DC) (V)	24±1.2

●Permissible load (For details, refer to P.183)

During assembly	Radial load P-direction (N)	147
	Thrust load A-direction (N)	88
	Thrust load B-direction (N)	117.6
During operation	Radial load P-direction (N)	68.6
	Thrust load A, B-direction (N)	58.8

- For details of Note 1 to Note 5, refer to P.182, P.183.
- Dimensions of Driver, refer to P.42.

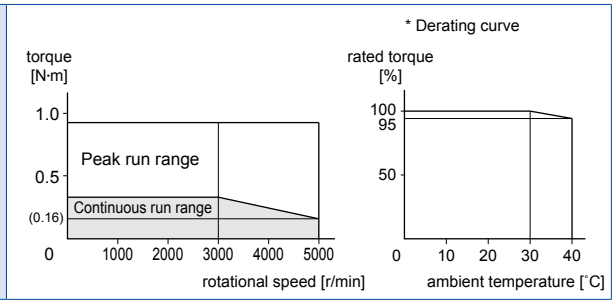
*1 Motor specif cations: □

*2 The product that the end of driver model designation has “E” is “Position control type”. Detail of model designation, refer to P.16.

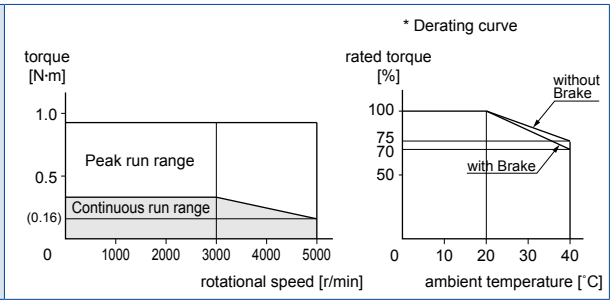
*3 ◇ in number of applicable driver represents the series. For more information about the part number, please refer to P.16.

Torque characteristics (at AC200 V of power voltage)

Without oil seal



With oil seal

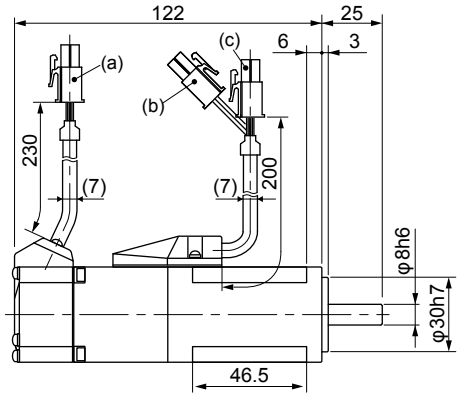


Dimensions

<With Brake>

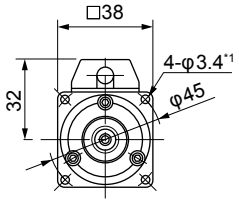
Mass: 0.68 kg

<IP65>

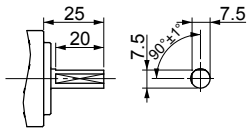


(a) Encoder connector
(b) Brake connector
(c) Motor connector

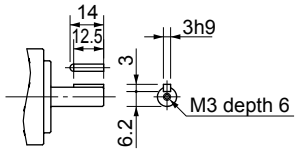
[*1 Use hexagon socket head screw for installation.]



<D-cut shaft>



<Key way, center tap shaft>



* For the dimensions without brake, refer to the left page.

[Unit: mm]

<Cautions> Reduce the moment of inertia ratio if high speed response operation is required.
Dimensions are subject to change without notice. Contact us or a dealer for the latest information.
Read the Instruction Manual carefully and understand all precautions and remarks before using the products.