400 V MSME 3.0 kW [Low inertia, Middle capacity]

Specif cations

			AC400 V	
Motor model *1	IP65		MSME304GC□	MSME304SC□
	IP67		MSME304G1□	MSME304S1□
Applicable driver *2	Model No.	A5Ⅱ, A5 series	MFD◇ T5440	
		A5ⅢE, A5E series	MFD◇ T5440E	–
	Frame symbol		F-frame	
Power supply capacity (kVA)			4.5	
Rated output (W)			3000	
Rated torque (N·m)			9.55	
Momentary Max. peak torque (N·m)			28.6	
Rated current (A(rms))			9.2	
Max. current (A(o-p))			39	
Regenerative brake frequency (times/min) Note)1	Without option		No limit Note)2	
	DV0PM20049×2		No limit Note)2	
Rated rotational speed (r/min)			3000	
Max. rotational speed (r/min)			5000	
Moment of inertia of rotor (×10⁻⁴ kg·m²)	Without brake		6.50	
	With brake		6.85	
Recommended moment of inertia ratio of the load and the rotor Note)3			15 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)	11.8 or more
Engaging time (ms)	80 or less
Releasing time (ms) Note)4	15 or less
Exciting current (DC) (A)	0.81±10 %
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

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

During assembly	Radial load P-direction (N)	980
	Thrust load A-direction (N)	588
	Thrust load B-direction (N)	686
During operation	Radial load P-direction (N)	490
	Thrust load A, B-direction (N)	196

- For details of Note 1 to Note 5, refer to P.182, P.183.
- Dimensions of Driver, refer to P.45.

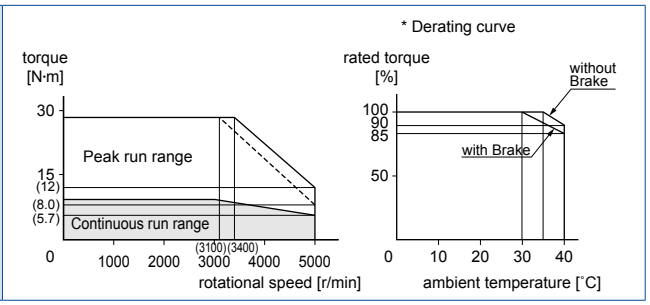
*1 Motor specif cations: □

*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.

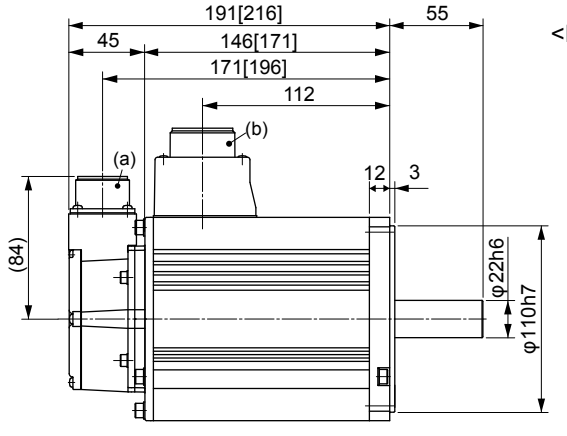
Torque characteristics (at AC400 V of power voltage <Dotted line represents the torque at 10 % less supply voltage.>)

With oil seal

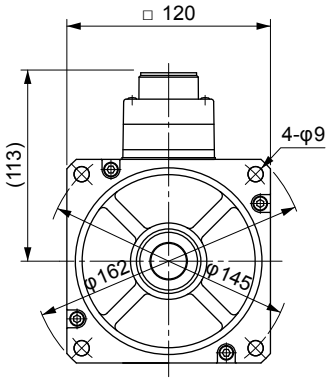


Dimensions

(For IP67 motor, refer to P.137.)

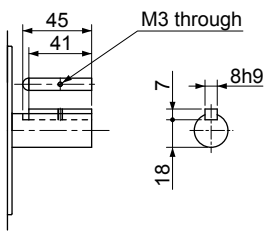


<IP65>



Mass: Without brake/ 8.3 kg
With brake/ 9.4 kg

Key way dimensions



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

* Figures in [ ] represent the dimensions with brake.

[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.