400 V MDME 5.0 kW [Middle inertia, Middle capacity]

Specif cations

			AC400 V	
Motor model *1	IP65		MDME504GC□	MDME504SC□
	IP67		MDME504G1□	MDME504S1□
Applicable driver *2	Model No.	A5Ⅱ, A5 series	MFD◇ TA464	
		A5ⅢE, A5E series	MFD◇ TA464E	–
	Frame symbol		F-frame	
Power supply capacity (kVA)			7.5	
Rated output (W)			5000	
Rated torque (N·m)			23.9	
Momentary Max. peak torque (N·m)			71.6	
Rated current (A(rms))			13.0	
Max. current (A(o-p))			55	
Regenerative brake frequency (times/min) Note)1		Without option	120	
		DV0PM20049×2	No limit Note)2	
Rated rotational speed (r/min)			2000	
Max. rotational speed (r/min)			3000	
Moment of inertia of rotor ($\times 10^{-4}$ kg·m^2)		Without brake	48.0	
		With brake	53.3	
Recommended moment of inertia ratio of the load and the rotor Note)3			10 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)	24.5 or more
Engaging time (ms)	80 or less
Releasing time (ms) Note)4	25 or less
Exciting current (DC) (A)	1.3±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)	1666
	Thrust load A-direction (N)	784
	Thrust load B-direction (N)	980
During operation	Radial load P-direction (N)	784
	Thrust load A, B-direction (N)	343

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

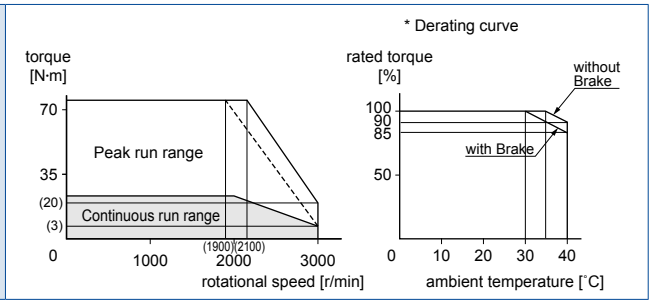
*1 Motor specif cations: □

*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.>)

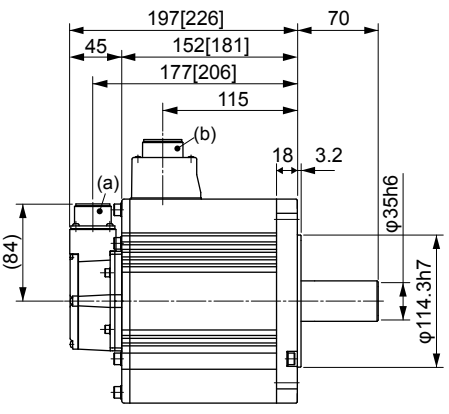
With oil seal



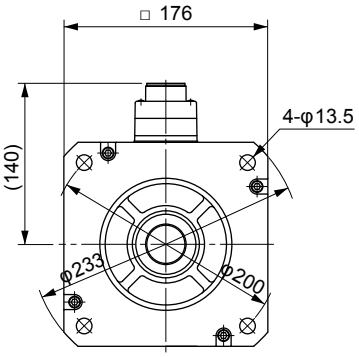
Dimensions

(For IP67 motor, refer to P.139.)

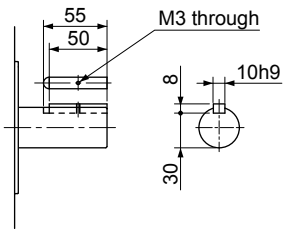
Mass: Without brake/ 18.6 kg
With brake/ 21.8 kg



<IP65>



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.