400 V MDME 11.0 kW [Middle inertia, Middle capacity]

Specif cations

			AC400 V	
Motor model *1	IP65		–	–
	IP67		MDMEC14G1□	MDMEC14S1□
Applicable driver *2	Model No.	A5Ⅱ, A5 series	MHD◇ TB4A2	
		A5ⅢE, A5E series	–	–
	Frame symbol		H-frame	
Power supply capacity (kVA)			17	
Rated output (W)			11000	
Rated torque (N·m)			70	
Momentary Max. peak torque (N·m)			175	
Rated current (A(rms))			27.1	
Max. current (A(o-p))			101	
Regenerative brake frequency (times/min) Note)1		Without option	No limit Note)2	
		DV0PM20059	No limit Note)2	
Rated rotational speed (r/min)			1500	
Max. rotational speed (r/min)			2000	
Moment of inertia of rotor ($\times 10^{-4}$ kg·m^2)		Without brake	212	
		With brake	220	
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)	100 or more
Engaging time (ms)	300 or less
Releasing time (ms) Note)4	140 or less
Exciting current (DC) (A)	1.08±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)	4508
	Thrust load A-direction (N)	1470
	Thrust load B-direction (N)	1764
During operation	Radial load P-direction (N)	2254
	Thrust load A, B-direction (N)	686

- For details of Note 1 to Note 5, refer to P.182, P.183.
- Dimensions of Driver, refer to P.46.

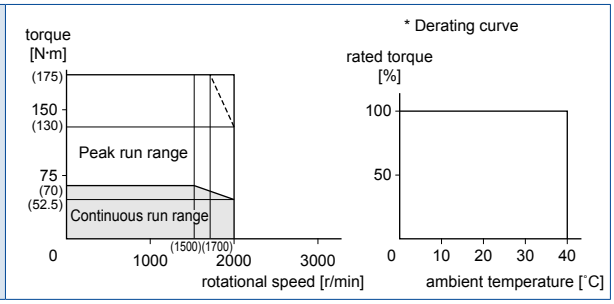
*1 Motor specif cations: □

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

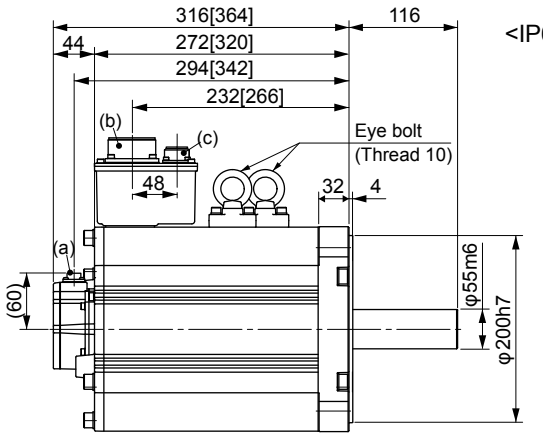
*3 ◇ in number of applicable driver represents the series. For more information about the part number, please refer to P.16.

Torque characteristics (at AC200 V of power voltage <Dotted line represents the torque at 10 % less supply voltage.>)

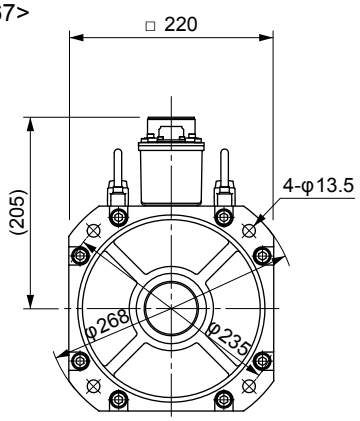
With oil seal



Dimensions

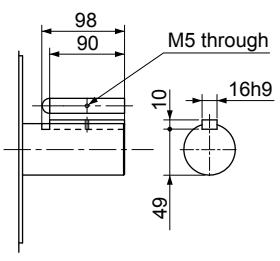


<IP67>



Mass: Without brake/ 52.7 kg
With brake/ 58.9 kg

Key way dimensions



(a) Encoder connector (b) Motor/ connector
(c) Brake connector (only with brake)

* 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.