

Specifications

		AC100 V	
Motor model	IP65		MSMD5AZG1□
	IP67		MSMD5AZS1□
Applicable driver	Model No.	A5II, A5 series	MAD◇T1105
		A5IE, A5E series	MAD◇T1105E
	Frame symbol	A-frame	
Power supply capacity	(kVA)	0.4	
Rated output	(W)	50	
Rated torque	(N·m)	0.16	
Momentary Max. peak torque	(N·m)	0.48	
Rated current	(A(rms))	1.1	
Max. current	(A(o-p))	4.7	
Regenerative brake frequency (times/min)Note1	Without option	No limit Note2	
	DV0P4280	No limit Note2	
Rated rotational speed	(r/min)	3000	
Max. rotational speed	(r/min)	5000	
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	0.025	
	With brake	0.027	
Recommended moment of inertia ratio of the load and the rotor Note3	30 times or less		
	Rotary encoder specifications Note5	20-bit Incremental	17-bit Absolute
Resolution per single turn		1048576	131072

• **Brake specifications** (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) Note4	20 or less
Exciting current (DC) (A)	0.3
Releasing voltage (DC) (V)	1 or more
Exciting voltage (DC) (V)	24±1.2

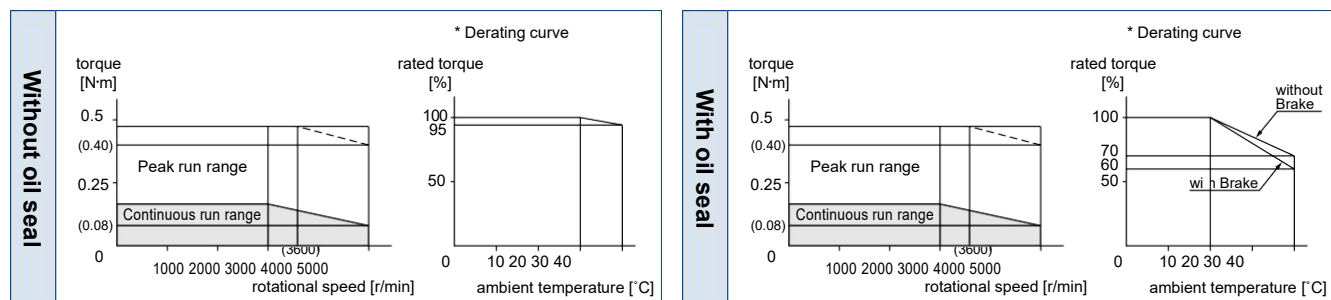
• **Permissible load** (For details, refer to P.183)

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.

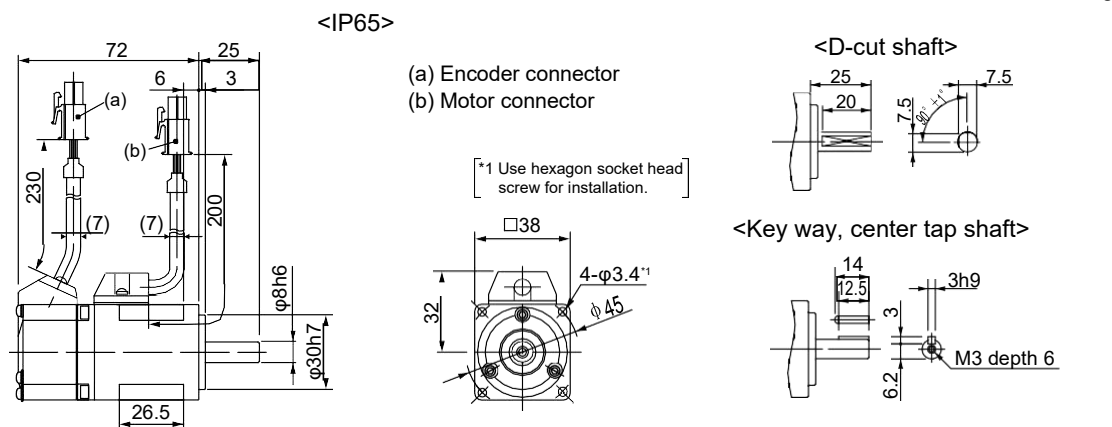
- *1 Motor specifications: □
- *2 The product that the end of driver model designation has "E" is "Position control type". Detail of model designation, refer to P.16.
- *3 ◇ in number of applicable driver represents the series. For more information about the part number, please refer to P.16.

Torque characteristics (at AC100 V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions

<Without Brake> Mass: 0.32 kg



* For the dimensions with brake, refer to the right 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.

Specifications

		AC200 V	
Motor model	IP65		MSMD5AZG1□
	IP67		MSMD5AZS1□
Applicable driver	Model No.	A5II, A5 series	MAD◇T1505
		A5IE, A5E series	MAD◇T1505E
	Frame symbol	A-frame	
Power supply capacity	(kVA)	0.5	
Rated output	(W)	50	
Rated torque	(N·m)	0.16	
Momentary Max. peak torque	(N·m)	0.48	
Rated current	(A(rms))	1.1	
Max. current	(A(o-p))	4.7	
Regenerative brake frequency (times/min)Note1	Without option	No limit Note2	
	DV0P4281	No limit Note2	
Rated rotational speed	(r/min)	3000	
Max. rotational speed	(r/min)	5000	
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	0.025	
	With brake	0.027	
Recommended moment of inertia ratio of the load and the rotor Note3	30 times or less		
	Rotary encoder specifications Note5	20-bit Incremental	17-bit Absolute
Resolution per single turn		1048576	131072

• **Brake specifications** (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) Note4	20 or less
Exciting current (DC) (A)	0.3
Releasing voltage (DC) (V)	1 or more
Exciting voltage (DC) (V)	24±1.2

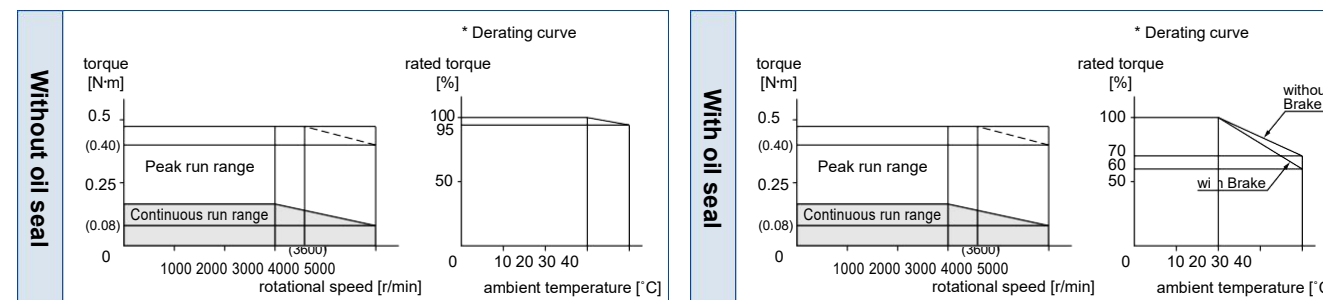
• **Permissible load** (For details, refer to P.183)

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.

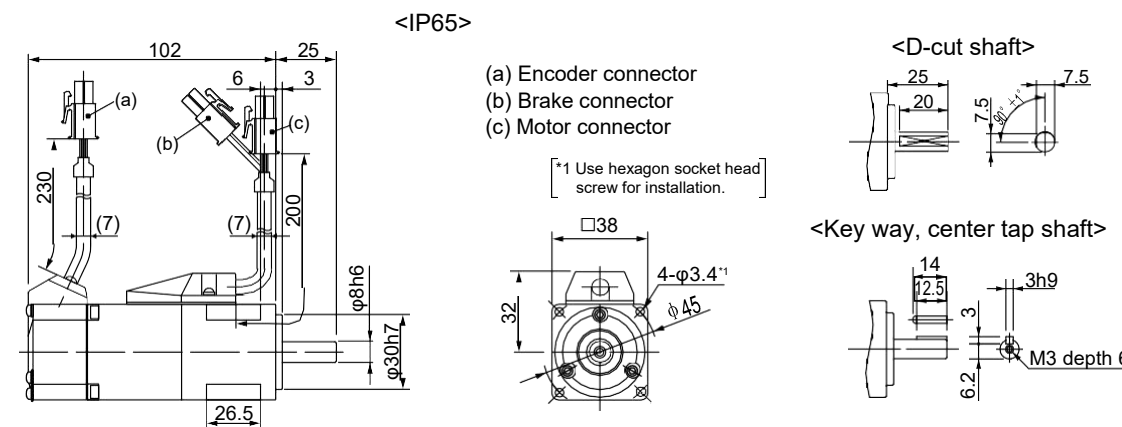
- *1 Motor specifications: □
- *2 The product that the end of driver model designation has "E" is "Position control type". Detail of model designation, refer to P.16.
- *3 ◇ in number of applicable driver represents the series. For more information about the part number, please refer to P.16.

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



Dimensions

<With Brake> Mass: 0.53 kg



* 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.

Specifications

		AC100 V	
Motor model	IP65		MSMD011G1□
	IP67		MSMD011S1□
Applicable driver	Model No.	A5II, A5 series	MAD◇T1107
		A5IE, A5E series	MAD◇T1107E
	Frame symbol	A-frame	
Power supply capacity	(kVA)	0.4	
Rated output	(W)	100	
Rated torque	(N·m)	0.32	
Momentary Max. peak torque	(N·m)	0.95	
Rated current	(A(rms))	1.7	
Max. current	(A(o-p))	7.2	
Regenerative brake frequency (times/min)Note1	Without option	No limit Note2	
	DV0P4280	No limit Note2	
Rated rotational speed	(r/min)	3000	
Max. rotational speed	(r/min)	5000	
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	0.051	
	With brake	0.054	
Recommended moment of inertia ratio of the load and the rotor Note3	30 times or less		
Rotary encoder specifications Note5	20-bit Incremental	17-bit Absolute	
	Resolution per single turn	1048576	131072

• **Brake specifications** (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) Note4	20 or less
Exciting current (DC) (A)	0.3
Releasing voltage (DC) (V)	1 or more
Exciting voltage (DC) (V)	24±1.2

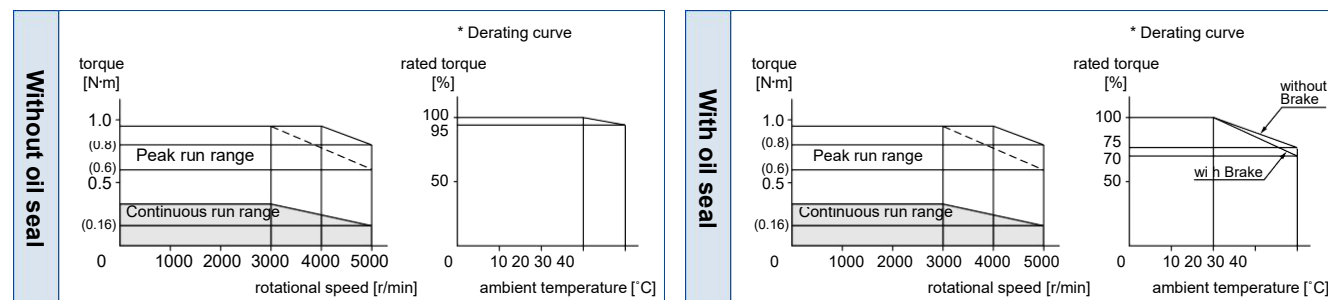
• **Permissible load** (For details, refer to P.183)

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.

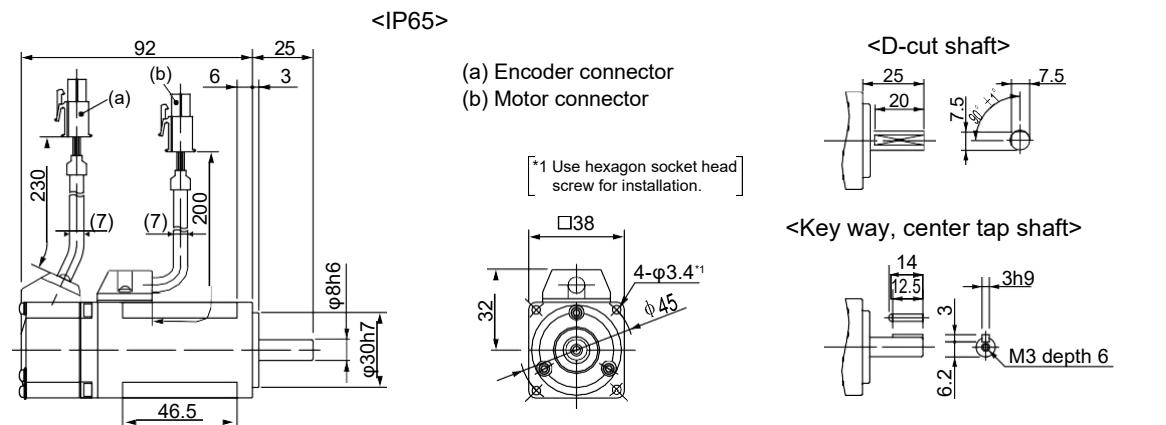
- *1 Motor specifications: □
- *2 The product that the end of driver model designation has "E" is "Position control type". Detail of model designation, refer to P.16.
- *3 ◇ in number of applicable driver represents the series. For more information about the part number, please refer to P.16.

Torque characteristics (at AC100 V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions

<Without Brake> Mass: 0.47 kg



* For the dimensions with brake, refer to the right 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.

Specifications

		AC200 V	
Motor model	IP65		MSMD012G1□
	IP67		MSMD012S1□
Applicable driver	Model No.	A5II, A5 series	MAD◇T1505
		A5IE, 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)Note1	Without option	No limit Note2	
	DV0P4281	No limit Note2	
Rated rotational speed	(r/min)	3000	
Max. rotational speed	(r/min)	5000	
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	0.051	
	With brake	0.054	
Recommended moment of inertia ratio of the load and the rotor Note3	30 times or less		
Rotary encoder specifications Note5	20-bit Incremental	17-bit Absolute	
	Resolution per single turn	1048576	131072

• **Brake specifications** (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) Note4	20 or less
Exciting current (DC) (A)	0.3
Releasing voltage (DC) (V)	1 or more
Exciting voltage (DC) (V)	24±1.2

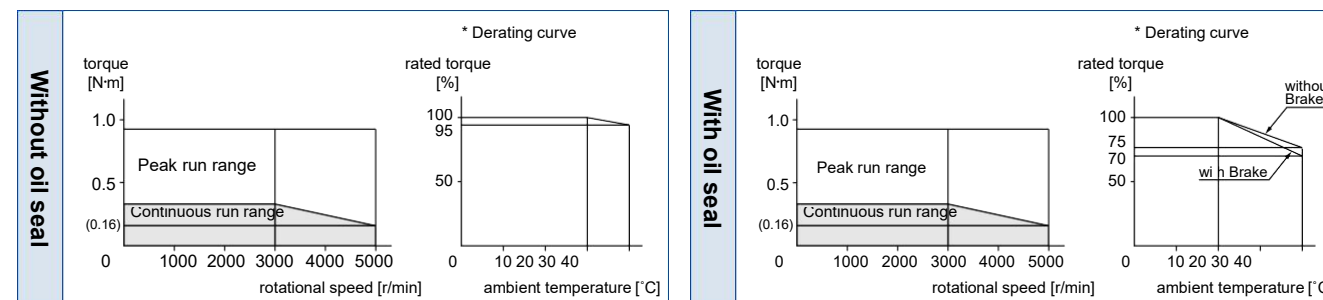
• **Permissible load** (For details, refer to P.183)

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.

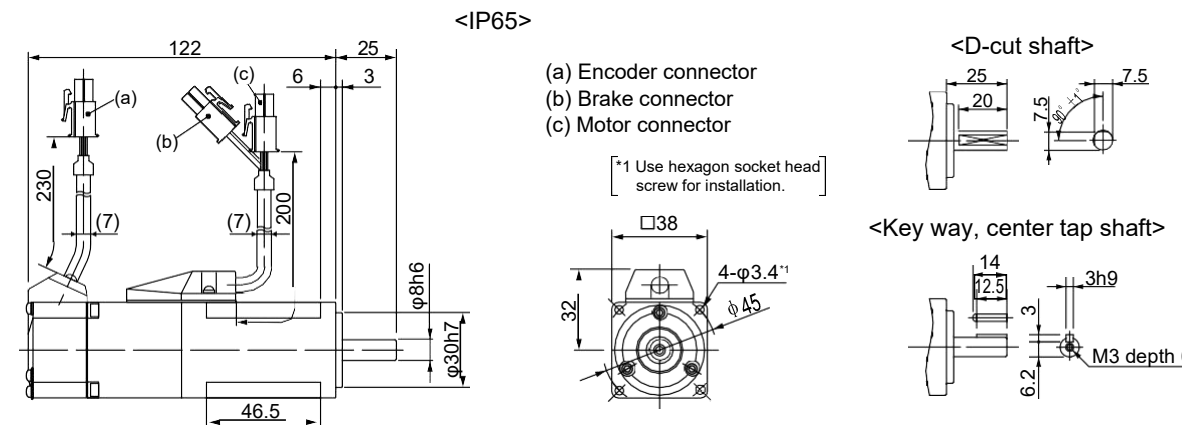
- *1 Motor specifications: □
- *2 The product that the end of driver model designation has "E" is "Position control type". Detail of model designation, refer to P.16.
- *3 ◇ in number of applicable driver represents the series. For more information about the part number, please refer to P.16.

Torque characteristics (at AC200 V of power voltage)



Dimensions

<With Brake> Mass: 0.68 kg



* 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.

Specifications

		AC100 V	
Motor model ^{*1}	IP65	MSMD021G1□	MSMD021S1□
	IP67	-	-
Applicable driver ^{*2}	Model No.	MBD◇T2110	
	A5II, A5 series	MBD◇T2110E	-
	A5IE, A5E series	-	-
Frame symbol		B-frame	
Power supply capacity (kVA)		0.5	
Rated output (W)		200	
Rated torque (N·m)		0.64	
Momentary Max. peak torque (N·m)		1.91	
Rated current (A(rms))		2.5	
Max. current (A(o-p))		10.6	
Regenerative brake frequency (times/min) ^{Note)1}	Without option	No limit ^{Note)2}	
	DV0P4283	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	0.14	
	With brake	0.16	
Recommended moment of inertia ratio of the load and the rotor ^{Note)3}		30 times or less	
Rotary encoder specifications ^{Note)5}		20-bit Incremental	17-bit Absolute
	Resolution per single turn	1048576	131072

• **Brake specifications** (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)	1.27 or more
Engaging time (ms)	50 or less
Releasing time (ms) ^{Note)4}	15 or less
Exciting current (DC) (A)	0.36
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)	392
	Thrust load A-direction (N)	147
	Thrust load B-direction (N)	196
During operation	Radial load P-direction (N)	245
	Thrust load A, B-direction (N)	98

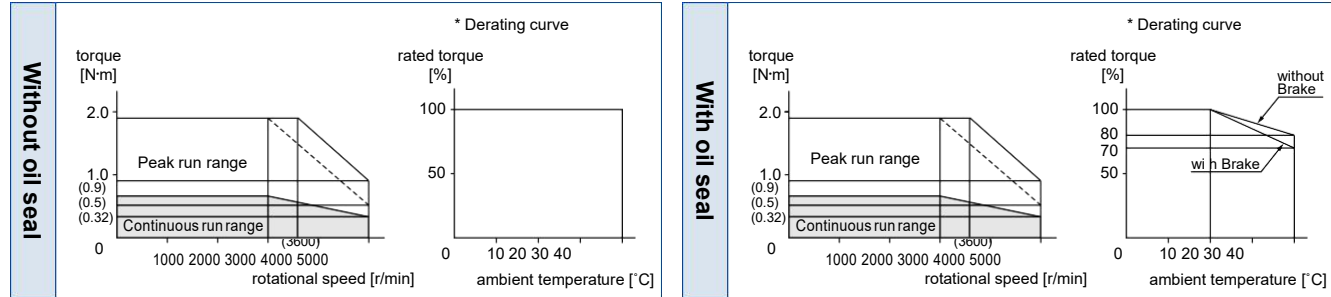
• For details of Note 1 to Note 5, refer to P.182, P.183.
• Dimensions of Driver, refer to P.42.

*1 Motor specifications: □

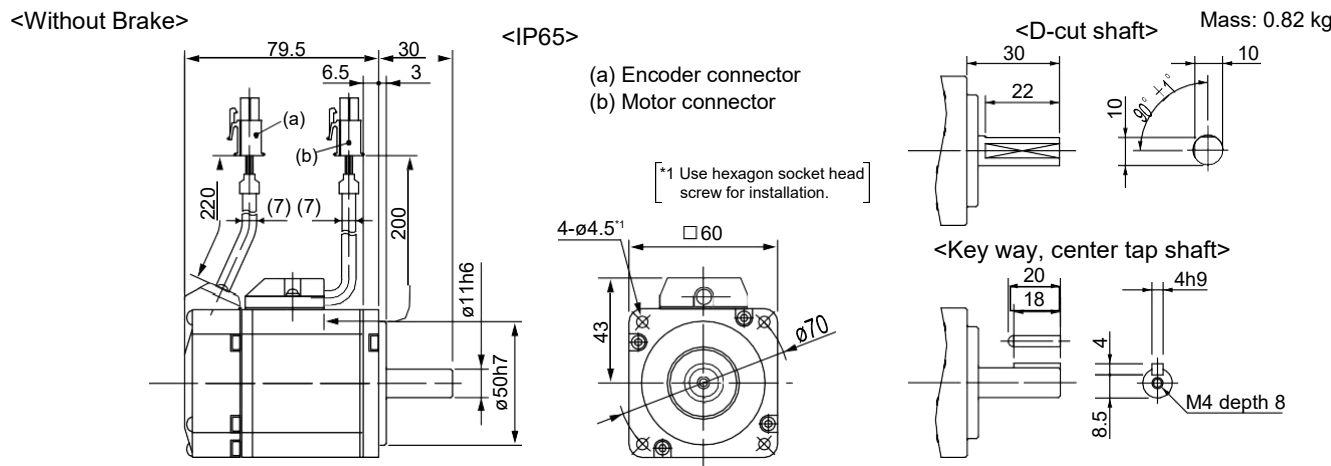
*2 The product that the end of driver model designation has "E" is "Position control type".
Detail of model designation, refer to P.16.

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

Torque characteristics (at AC100 V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions



* For the dimensions with brake, refer to the right 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.

Specifications

		AC200 V	
Motor model ^{*1}	IP65	MSMD022G1□	MSMD022S1□
	IP67	-	-
Applicable driver ^{*2}	Model No.	MAD◇T1507	
	A5II, A5 series	MAD◇T1507E	-
	A5IE, A5E series	-	-
Frame symbol		A-frame	
Power supply capacity (kVA)		0.5	
Rated output (W)		200	
Rated torque (N·m)		0.64	
Momentary Max. peak torque (N·m)		1.91	
Rated current (A(rms))		1.6	
Max. current (A(o-p))		6.9	
Regenerative brake frequency (times/min) ^{Note)1}	Without option	No limit ^{Note)2}	
	DV0P4283	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	0.14	
	With brake	0.16	
Recommended moment of inertia ratio of the load and the rotor ^{Note)3}		30 times or less	
Rotary encoder specifications ^{Note)5}		20-bit Incremental	17-bit Absolute
	Resolution per single turn	1048576	131072

• **Brake specifications** (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)	1.27 or more
Engaging time (ms)	50 or less
Releasing time (ms) ^{Note)4}	15 or less
Exciting current (DC) (A)	0.36
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)	392
	Thrust load A-direction (N)	147
	Thrust load B-direction (N)	196
During operation	Radial load P-direction (N)	245
	Thrust load A, B-direction (N)	98

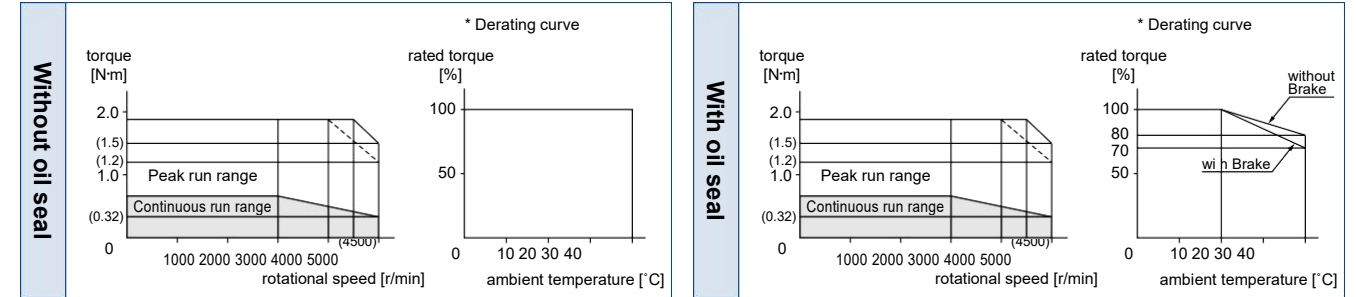
• For details of Note 1 to Note 5, refer to P.182, P.183.
• Dimensions of Driver, refer to P.42.

*1 Motor specifications: □

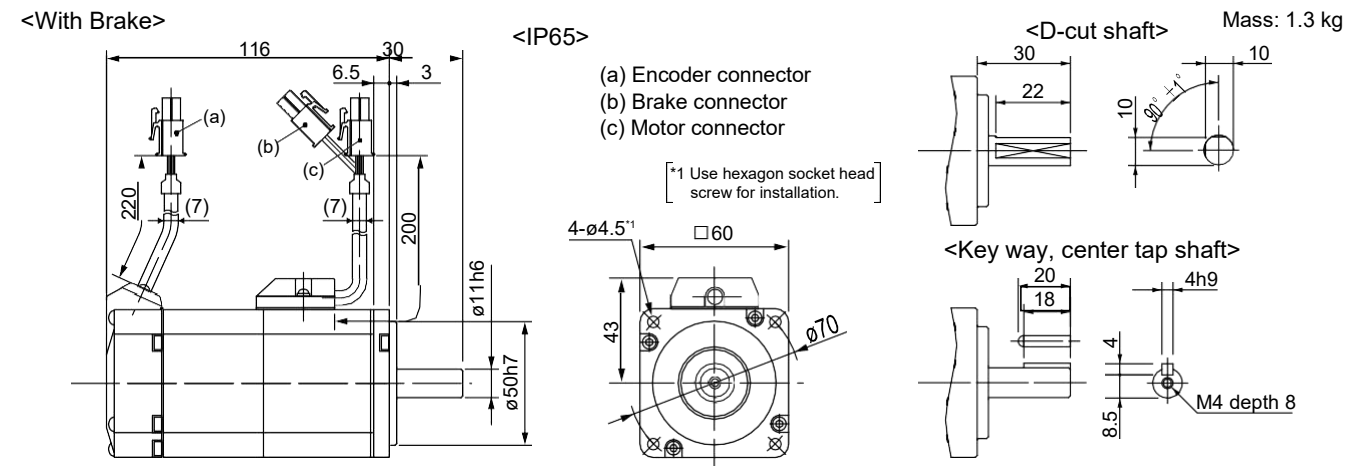
*2 The product that the end of driver model designation has "E" is "Position control type".
Detail of model designation, refer to P.16.

*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.>)



Dimensions



* 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.

Specifications

		AC100 V	
Motor model *1	IP65	MSMD041G1□	MSMD041S1□
	IP67	-	-
Applicable driver *2	Model No.	MCD◇T3120	
	A5II, A5 series	MCD◇T3120E	-
	A5IE, A5E series	-	-
Frame symbol		C-frame	
Power supply capacity (kVA)		0.9	
Rated output (W)		400	
Rated torque (N·m)		1.3	
Momentary Max. peak torque (N·m)		3.8	
Rated current (A(rms))		4.6	
Max. current (A(o-p))		19.5	
Regenerative brake frequency (times/min) Note1	Without option	No limit Note2	
	DV0P4282	No limit Note2	
Rated rotational speed (r/min)		3000	
Max. rotational speed (r/min)		5000	
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	0.26	
	With brake	0.28	
Recommended moment of inertia ratio of the load and the rotor Note3		30 times or less	
Rotary encoder specifications Note5		20-bit Incremental	17-bit Absolute
	Resolution per single turn	1048576	131072

• **Brake specifications** (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)	1.27 or more
Engaging time (ms)	50 or less
Releasing time (ms) Note4	15 or less
Exciting current (DC) (A)	0.36
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)	392
	Thrust load A-direction (N)	147
	Thrust load B-direction (N)	196
During operation	Radial load P-direction (N)	245
	Thrust load A, B-direction (N)	98

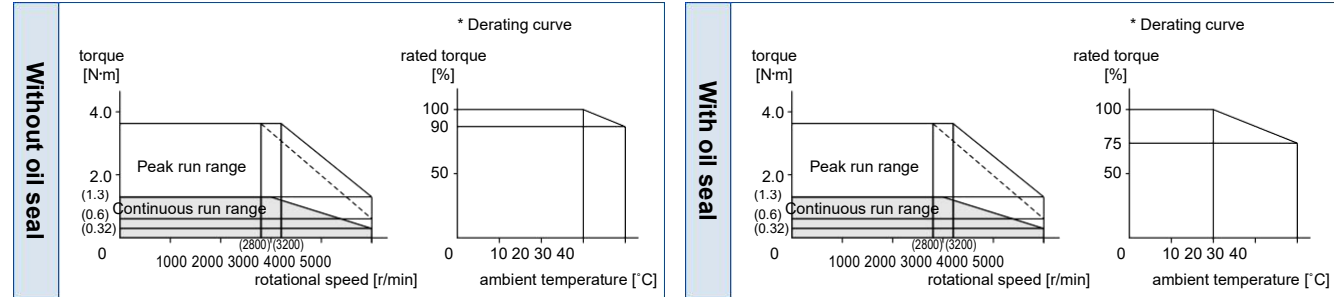
• For details of Note 1 to Note 5, refer to P.182, P.183.
• Dimensions of Driver, refer to P.43.

*1 Motor specifications: □

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

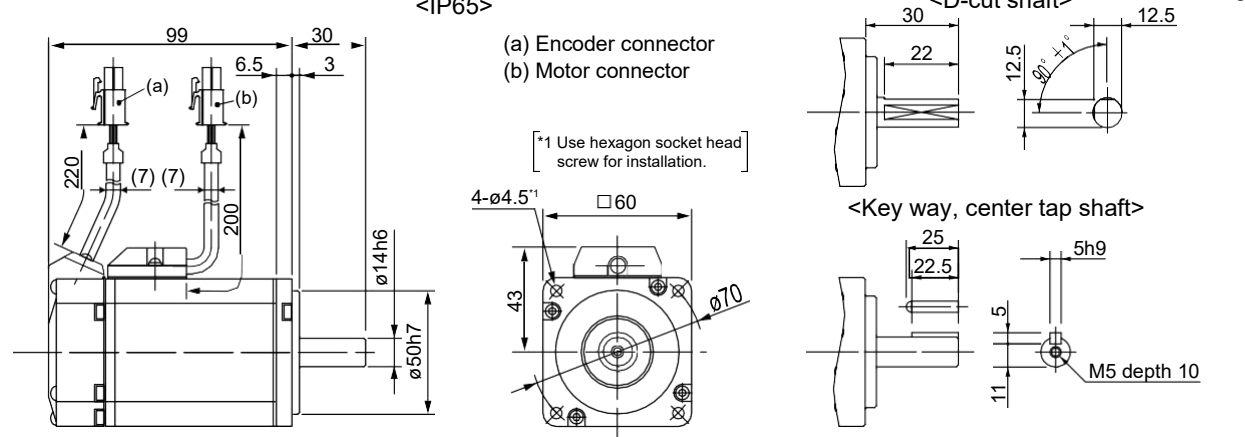
*3 ◇ in number of applicable driver represents the series. For more information about the part number, please refer to P.16.

Torque characteristics (at AC100 V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions

<Without Brake> <IP65> <D-cut shaft> Mass: 1.2 kg



* For the dimensions with brake, refer to the right 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.

Specifications

		AC200 V	
Motor model *1	IP65	MSMD042G1□	MSMD042S1□
	IP67	-	-
Applicable driver *2	Model No.	MBD◇T2510	
	A5II, A5 series	MBD◇T2510E	-
	A5IE, A5E series	-	-
Frame symbol		B-frame	
Power supply capacity (kVA)		0.9	
Rated output (W)		400	
Rated torque (N·m)		1.3	
Momentary Max. peak torque (N·m)		3.8	
Rated current (A(rms))		2.6	
Max. current (A(o-p))		11.0	
Regenerative brake frequency (times/min) Note1	Without option	No limit Note2	
	DV0P4283	No limit Note2	
Rated rotational speed (r/min)		3000	
Max. rotational speed (r/min)		5000	
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	0.26	
	With brake	0.28	
Recommended moment of inertia ratio of the load and the rotor Note3		30 times or less	
Rotary encoder specifications Note5		20-bit Incremental	17-bit Absolute
	Resolution per single turn	1048576	131072

• **Brake specifications** (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)	1.27 or more
Engaging time (ms)	50 or less
Releasing time (ms) Note4	15 or less
Exciting current (DC) (A)	0.36
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)	392
	Thrust load A-direction (N)	147
	Thrust load B-direction (N)	196
During operation	Radial load P-direction (N)	245
	Thrust load A, B-direction (N)	98

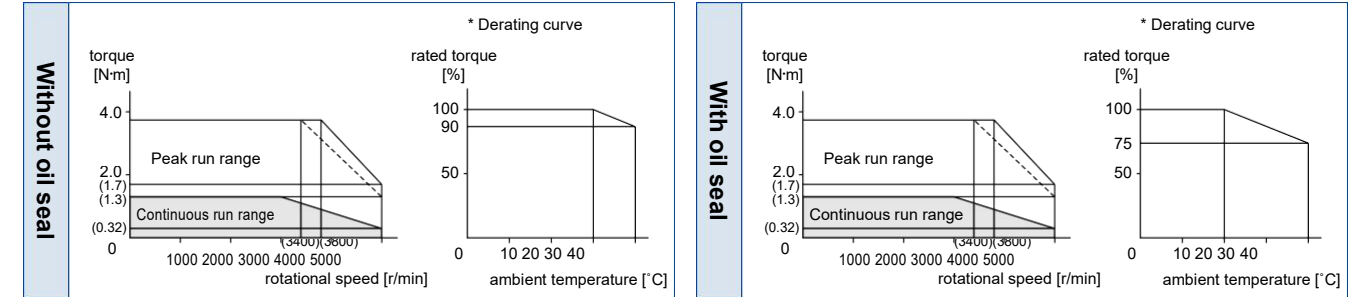
• For details of Note 1 to Note 5, refer to P.182, P.183.
• Dimensions of Driver, refer to P.42.

*1 Motor specifications: □

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

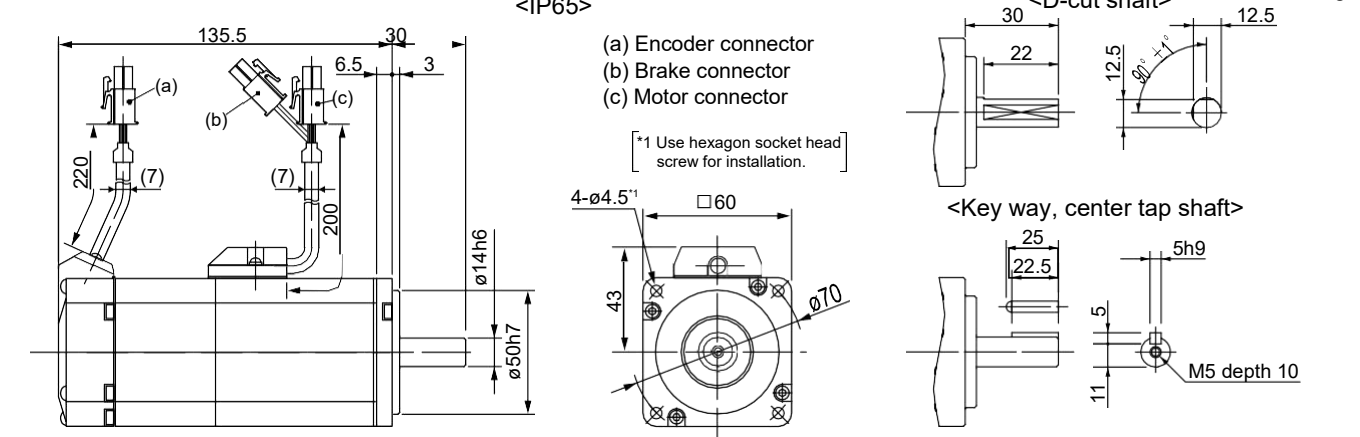
*3 ◇ in number of applicable driver represents the series. For more information about the part number, please refer to P.16.

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



Dimensions

<With Brake> <IP65> <D-cut shaft> Mass: 1.7 kg



* 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.

Specifications

		AC100 V	
Motor model ^{*1}	IP65	MHMD021G1□	MHMD021S1□
	IP67	-	-
Applicable driver ^{*2}	Model No.	MBD◇T2110	
	A5II, A5 series	MBD◇T2110E	-
	A5IE, A5E series	-	-
Frame symbol		B-frame	
Power supply capacity (kVA)		0.5	
Rated output (W)		200	
Rated torque (N·m)		0.64	
Momentary Max. peak torque (N·m)		1.91	
Rated current (A(rms))		2.5	
Max. current (A(o-p))		10.6	
Regenerative brake frequency (times/min) ^{Note)1}	Without option	No limit ^{Note)2}	
	DV0P4283	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	0.42	
	With brake	0.45	
Recommended moment of inertia ratio of the load and the rotor ^{Note)3}		30 times or less	
Rotary encoder specifications ^{Note)5}		20-bit Incremental	17-bit Absolute
	Resolution per single turn	1048576	131072

• Brake specifications (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)	1.27 or more
Engaging time (ms)	50 or less
Releasing time (ms) ^{Note)4}	15 or less
Exciting current (DC) (A)	0.36
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)	392
	Thrust load A-direction (N)	147
	Thrust load B-direction (N)	196
During operation	Radial load P-direction (N)	245
	Thrust load A, B-direction (N)	98

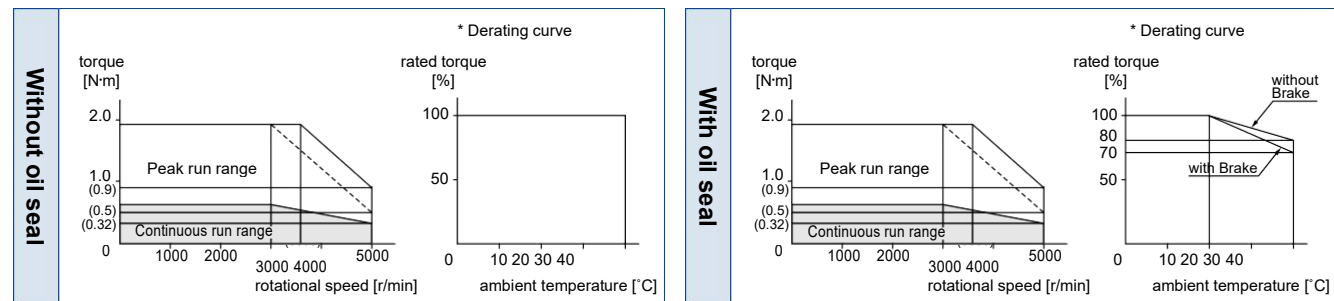
• For details of Note 1 to Note 5, refer to P.182, P.183.
• Dimensions of Driver, refer to P.42.

*1 Motor specifications: □

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

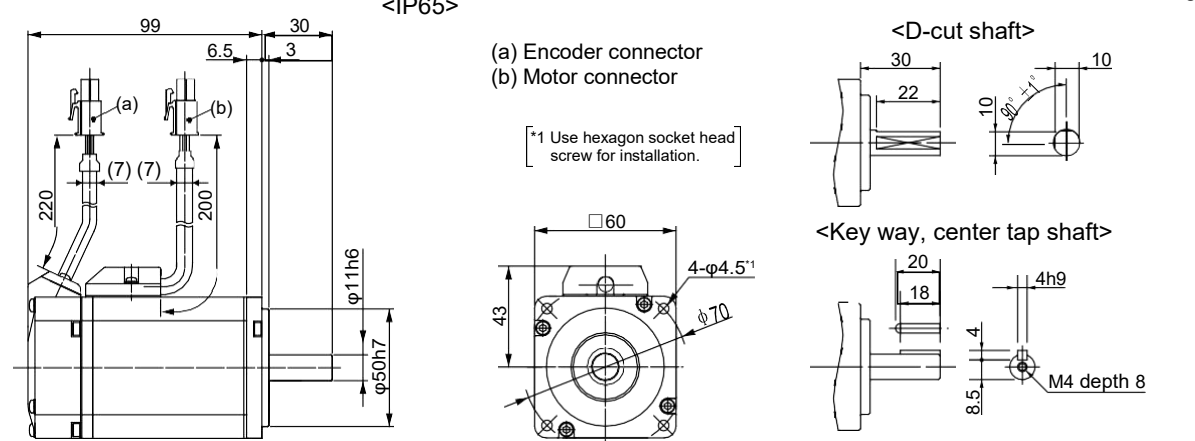
*3 ◇ in number of applicable driver represents the series. For more information about the part number, please refer to P.16.

Torque characteristics (at AC100 V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions

<Without Brake> <IP65> Mass: 0.96 kg



* For the dimensions with brake, refer to the right 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.

Specifications

		AC200 V	
Motor model ^{*1}	IP65	MHMD022G1□	MHMD022S1□
	IP67	-	-
Applicable driver ^{*2}	Model No.	MAD◇T1507	
	A5II, A5 series	MAD◇T1507E	-
	A5IE, A5E series	-	-
Frame symbol		A-frame	
Power supply capacity (kVA)		0.5	
Rated output (W)		200	
Rated torque (N·m)		0.64	
Momentary Max. peak torque (N·m)		1.91	
Rated current (A(rms))		1.6	
Max. current (A(o-p))		6.9	
Regenerative brake frequency (times/min) ^{Note)1}	Without option	No limit ^{Note)2}	
	DV0P4283	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	0.42	
	With brake	0.45	
Recommended moment of inertia ratio of the load and the rotor ^{Note)3}		30 times or less	
Rotary encoder specifications ^{Note)5}		20-bit Incremental	17-bit Absolute
	Resolution per single turn	1048576	131072

• Brake specifications (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)	1.27 or more
Engaging time (ms)	50 or less
Releasing time (ms) ^{Note)4}	15 or less
Exciting current (DC) (A)	0.36
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)	392
	Thrust load A-direction (N)	147
	Thrust load B-direction (N)	196
During operation	Radial load P-direction (N)	245
	Thrust load A, B-direction (N)	98

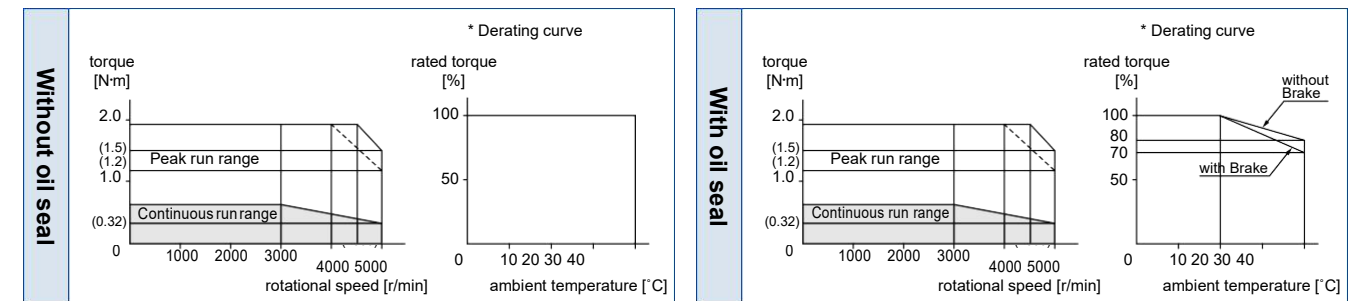
• For details of Note 1 to Note 5, refer to P.182, P.183.
• Dimensions of Driver, refer to P.42.

*1 Motor specifications: □

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

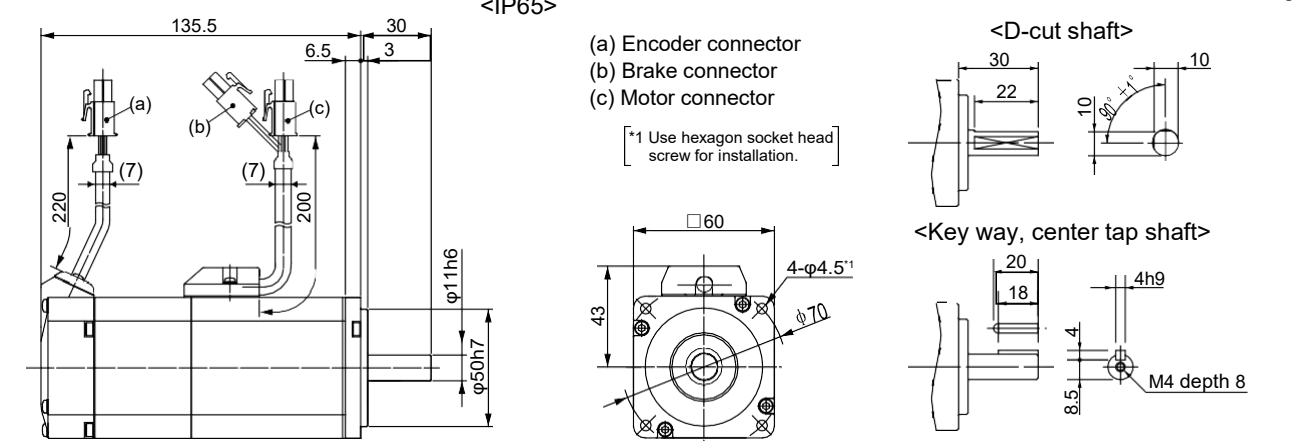
*3 ◇ in number of applicable driver represents the series. For more information about the part number, please refer to P.16.

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



Dimensions

<With Brake> <IP65> Mass: 1.4 kg



* 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.

Specifications

		AC100 V	
Motor model *1	IP65	MHMD041G1□	MHMD041S1□
	IP67	-	-
Applicable driver *2	Model No.	MCD◇T3120	
	A5II, A5 series	MCD◇T3120E	-
	A5IE, A5E series	-	-
Frame symbol		C-frame	
Power supply capacity (kVA)		0.9	
Rated output (W)		400	
Rated torque (N·m)		1.3	
Momentary Max. peak torque (N·m)		3.8	
Rated current (A(rms))		4.6	
Max. current (A(o-p))		19.5	
Regenerative brake frequency (times/min) Note)1	Without option	No limit Note)2	
	DV0P4282	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	0.67	
	With brake	0.70	
Recommended moment of inertia ratio of the load and the rotor Note)3		30 times or less	
Rotary encoder specifications Note)5		20-bit Incremental	17-bit Absolute
	Resolution per single turn	1048576	131072

• **Brake specifications** (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)	1.27 or more
Engaging time (ms)	50 or less
Releasing time (ms) Note)4	15 or less
Exciting current (DC) (A)	0.36
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)	392
	Thrust load A-direction (N)	147
	Thrust load B-direction (N)	196
During operation	Radial load P-direction (N)	245
	Thrust load A, B-direction (N)	98

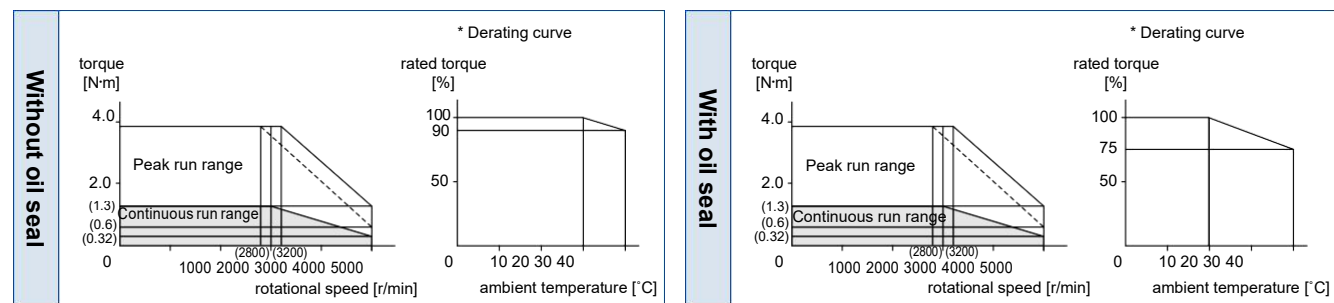
• For details of Note 1 to Note 5, refer to P.182, P.183.
• Dimensions of Driver, refer to P.43.

*1 Motor specifications: □

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

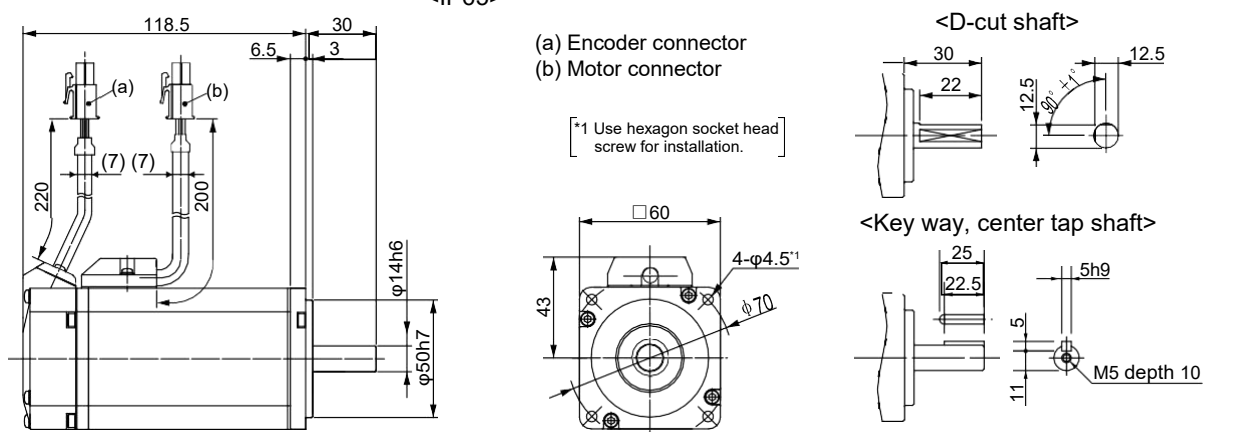
*3 ◇ in number of applicable driver represents the series. For more information about the part number, please refer to P.16.

Torque characteristics (at AC100 V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions

<Without Brake> <IP65> Mass: 1.4 kg



* For the dimensions with brake, refer to the right 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.

Specifications

		AC200 V	
Motor model *1	IP65	MHMD042G1□	MHMD042S1□
	IP67	-	-
Applicable driver *2	Model No.	MBD◇T2510	
	A5II, A5 series	MBD◇T2510E	-
	A5IE, A5E series	-	-
Frame symbol		B-frame	
Power supply capacity (kVA)		0.9	
Rated output (W)		400	
Rated torque (N·m)		1.3	
Momentary Max. peak torque (N·m)		3.8	
Rated current (A(rms))		2.6	
Max. current (A(o-p))		11.0	
Regenerative brake frequency (times/min) Note)1	Without option	No limit Note)2	
	DV0P4283	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	0.67	
	With brake	0.70	
Recommended moment of inertia ratio of the load and the rotor Note)3		30 times or less	
Rotary encoder specifications Note)5		20-bit Incremental	17-bit Absolute
	Resolution per single turn	1048576	131072

• **Brake specifications** (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)	1.27 or more
Engaging time (ms)	50 or less
Releasing time (ms) Note)4	15 or less
Exciting current (DC) (A)	0.36
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)	392
	Thrust load A-direction (N)	147
	Thrust load B-direction (N)	196
During operation	Radial load P-direction (N)	245
	Thrust load A, B-direction (N)	98

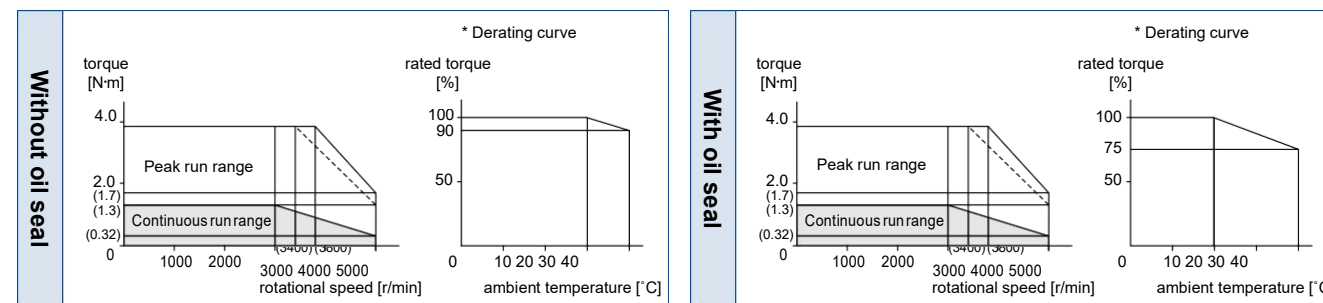
• For details of Note 1 to Note 5, refer to P.182, P.183.
• Dimensions of Driver, refer to P.42.

*1 Motor specifications: □

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

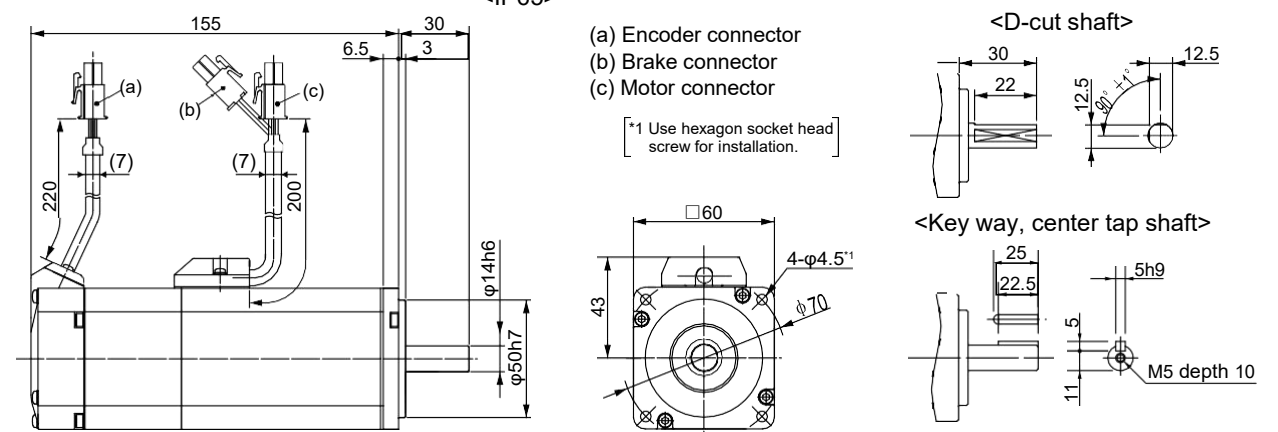
*3 ◇ in number of applicable driver represents the series. For more information about the part number, please refer to P.16.

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



Dimensions

<With Brake> <IP65> Mass: 1.8 kg



* 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.

Specifications

		AC200 V	
Motor model ^{*1}	IP65	MHMD082G1□	MHMD082S1□
	IP67	-	-
Applicable driver ^{*2}	Model No.	MCD◇T3520	
	A5II, A5 series	MCD◇T3520E	-
	A5IE, A5E series	-	-
Frame symbol		C-frame	
Power supply capacity (kVA)		1.3	
Rated output (W)		750	
Rated torque (N·m)		2.4	
Momentary Max. peak torque (N·m)		7.1	
Rated current (A(rms))		4.0	
Max. current (A(o-p))		17.0	
Regenerative brake frequency (times/min) ^{Note)1}	Without option	No limit ^{Note)2}	
	DV0P4283	No limit ^{Note)2}	
Rated rotational speed (r/min)		3000	
Max. rotational speed (r/min)		4500	
Moment of inertia of rotor ($\times 10^{-4}$ kg·m ²)	Without brake	1.51	
	With brake	1.61	
Recommended moment of inertia ratio of the load and the rotor ^{Note)3}		20 times or less	
Rotary encoder specifications ^{Note)5}		20-bit Incremental	17-bit Absolute
	Resolution per single turn	1048576	131072

• **Brake specifications** (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)	2.45 or more
Engaging time (ms)	70 or less
Releasing time (ms) ^{Note)4}	20 or less
Exciting current (DC) (A)	0.42
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)	686
	Thrust load A-direction (N)	294
	Thrust load B-direction (N)	392
During operation	Radial load P-direction (N)	392
	Thrust load A, B-direction (N)	147

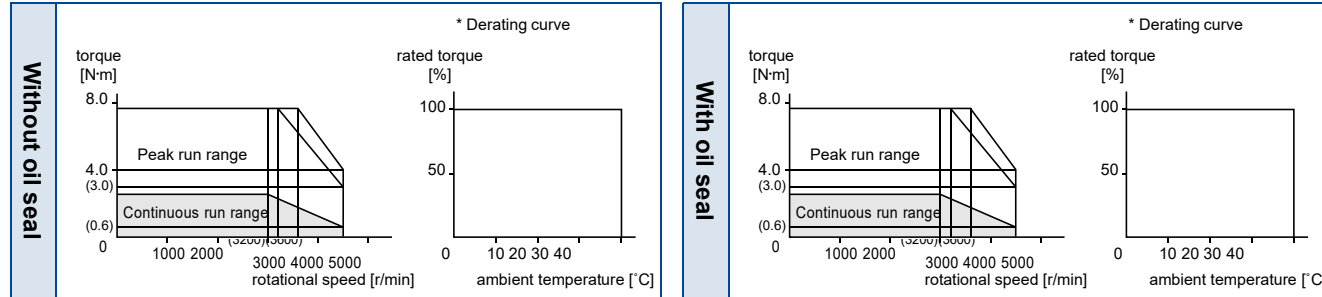
• For details of Note 1 to Note 5, refer to P.182, P.183.
 • Dimensions of Driver, refer to P.43.

*1 Motor specifications: □

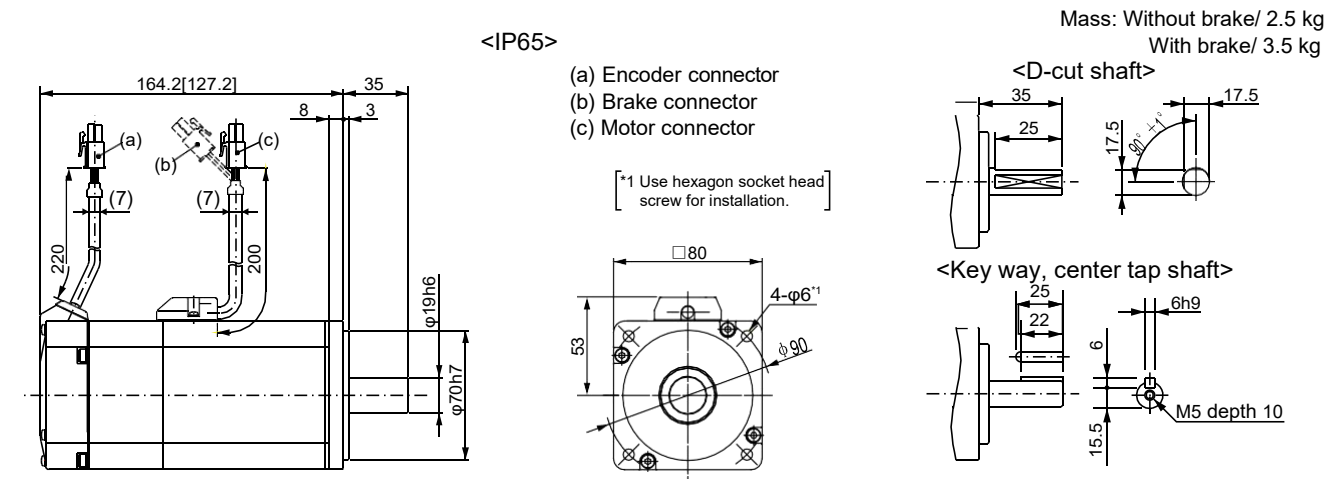
*2 The product that the end of driver model designation has "E" is "Position control type".
 Detail of model designation, refer to P.16.

*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.>)



Dimensions



* Figures in [] represent the dimensions without 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.

MEMO

Specifications

		AC100 V	
Motor model *1	IP65	-	-
	IP67	MSME5AZG1□	MSME5AZS1□
Applicable driver *2	Model No.	MAD◇T1105	
	A5II, A5 series	MAD◇T1105E	-
	A5IE, A5E series	-	-
Frame symbol		A-frame	
Power supply capacity (kVA)		0.4	
Rated output (W)		50	
Rated torque (N·m)		0.16	
Momentary Max. peak torque (N·m)		0.48	
Rated current (A(rms))		1.1	
Max. current (A(o-p))		4.7	
Regenerative brake frequency (times/min) Note1	Without option	No limit Note2	
	DV0P4280	No limit Note2	
Rated rotational speed (r/min)		3000	
Max. rotational speed (r/min)		6000	
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	0.025	
	With brake	0.027	
Recommended moment of inertia ratio of the load and the rotor Note3		30 times or less	
Rotary encoder specifications Note5	20-bit Incremental	17-bit Absolute	
	Resolution per single turn	1048576	131072

• **Brake specifications** (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) Note4	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

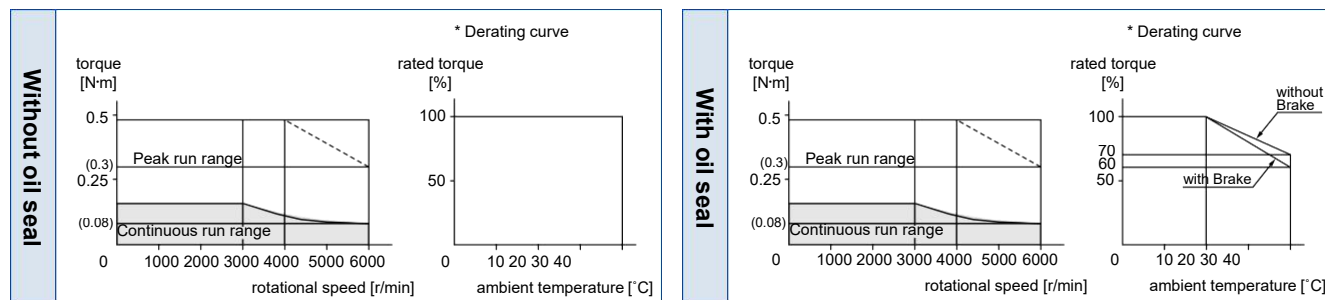
• For details of Note 1 to Note 5, refer to P.182, P.183.
• Dimensions of Driver, refer to P.42.

*1 Motor specifications: □

*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.

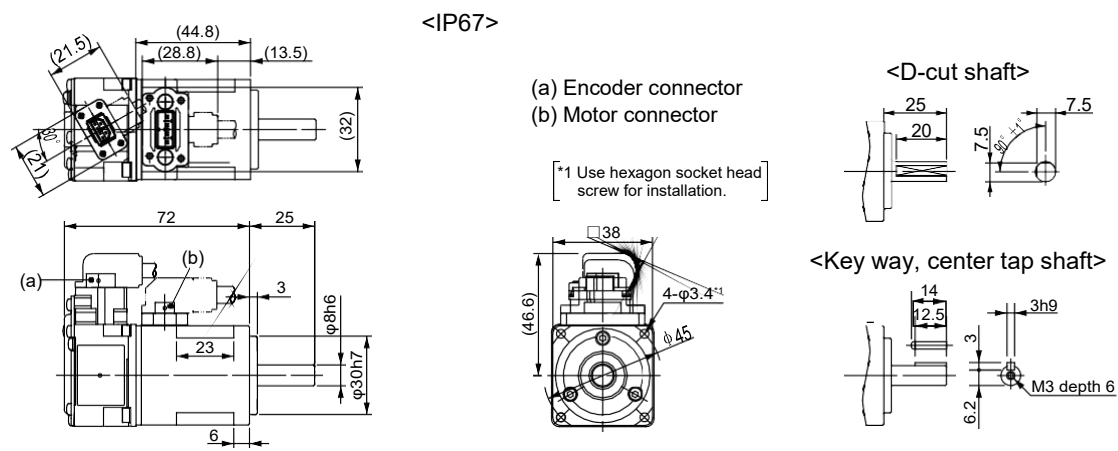
Torque characteristics (at AC100 V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions <In Case of Without Brake, Cable direction to output shaft.>

• Motor cables for opposite to output shaft cannot be used with 50 W motor.

Mass: 0.31 kg



* For the dimensions with brake, refer to the right 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.

Specifications

		AC200 V	
Motor model *1	IP65	-	-
	IP67	MSME5AZG1□	MSME5AZS1□
Applicable driver *2	Model No.	MAD◇T1505	
	A5II, A5 series	MAD◇T1505E	-
	A5IE, A5E series	-	-
Frame symbol		A-frame	
Power supply capacity (kVA)		0.5	
Rated output (W)		50	
Rated torque (N·m)		0.16	
Momentary Max. peak torque (N·m)		0.48	
Rated current (A(rms))		1.1	
Max. current (A(o-p))		4.7	
Regenerative brake frequency (times/min) Note1	Without option	No limit Note2	
	DV0P4280	No limit Note2	
Rated rotational speed (r/min)		3000	
Max. rotational speed (r/min)		6000	
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	0.025	
	With brake	0.027	
Recommended moment of inertia ratio of the load and the rotor Note3		30 times or less	
Rotary encoder specifications Note5	20-bit Incremental	17-bit Absolute	
	Resolution per single turn	1048576	131072

• **Brake specifications** (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) Note4	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

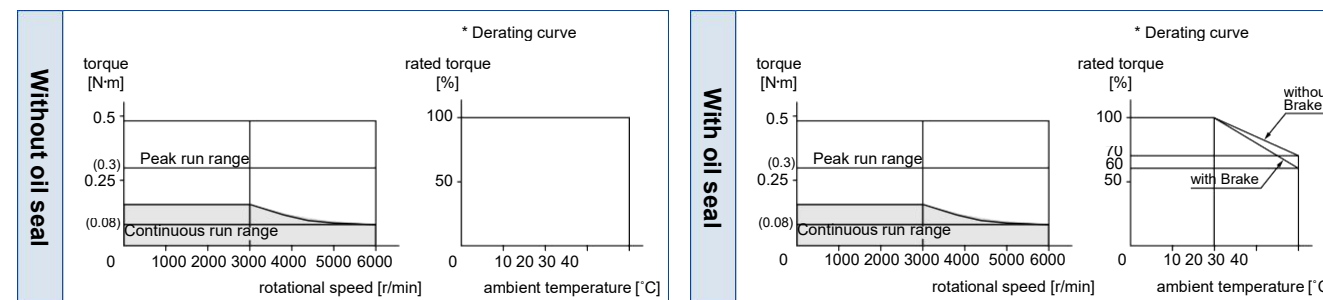
• For details of Note 1 to Note 5, refer to P.182, P.183.
• Dimensions of Driver, refer to P.42.

*1 Motor specifications: □

*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.

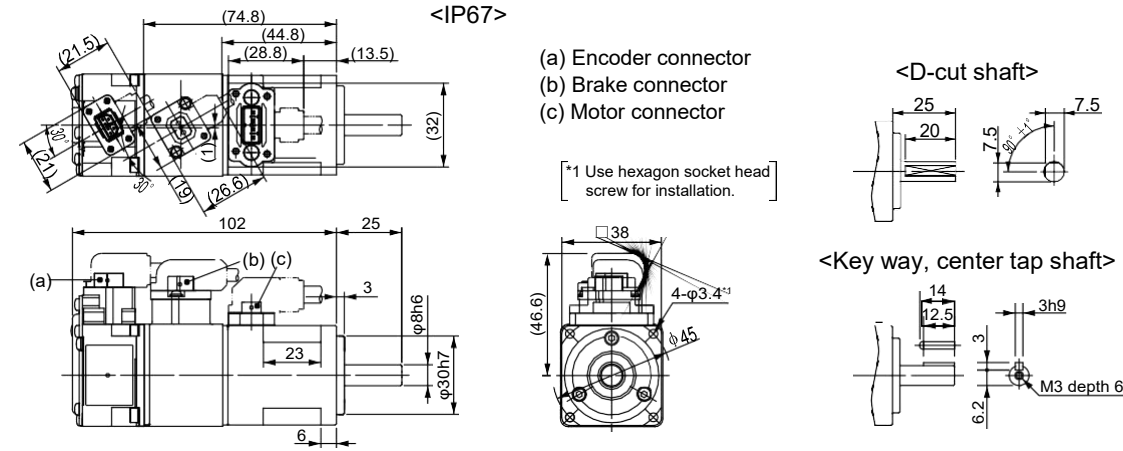
Torque characteristics (at AC200V of power voltage)



Dimensions <In Case of With Brake, Cable direction to output shaft.>

• Motor cables for opposite to output shaft cannot be used with 50 W motor.

Mass: 0.51 kg



* 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.

Specifications

		AC100 V	
Motor model ^{*1}	IP65	-	-
	IP67	MSME011G1□	MSME011S1□
Applicable driver ^{*2}	Model No.	MAD◇T1107	
	A5II, A5 series	MAD◇T1107E	-
	A5IE, A5E series	-	-
Frame symbol		A-frame	
Power supply capacity (kVA)		0.4	
Rated output (W)		100	
Rated torque (N·m)		0.32	
Momentary Max. peak torque (N·m)		0.95	
Rated current (A(rms))		1.6	
Max. current (A(o-p))		6.9	
Regenerative brake frequency (times/min) ^{Note)1}	Without option	No limit ^{Note)2}	
	DV0P4280	No limit ^{Note)2}	
Rated rotational speed (r/min)		3000	
Max. rotational speed (r/min)		6000	
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 specifications ^{Note)5}		20-bit Incremental	17-bit Absolute
	Resolution per single turn	1048576	131072

• Brake specifications (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.)

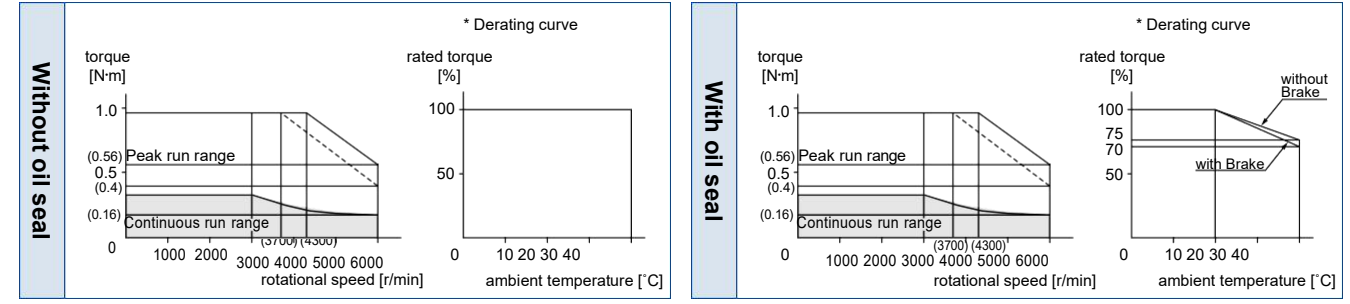
Static friction torque (N·m)	0.29 or more
Engaging time (ms)	35 or less
Releasing time (ms) ^{Note)4}	20 or less
Exciting current (DC) (A)	0.3
Releasing voltage (DC) (V)	1 or more
Exciting voltage (DC) (V)	24±1.2

• 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

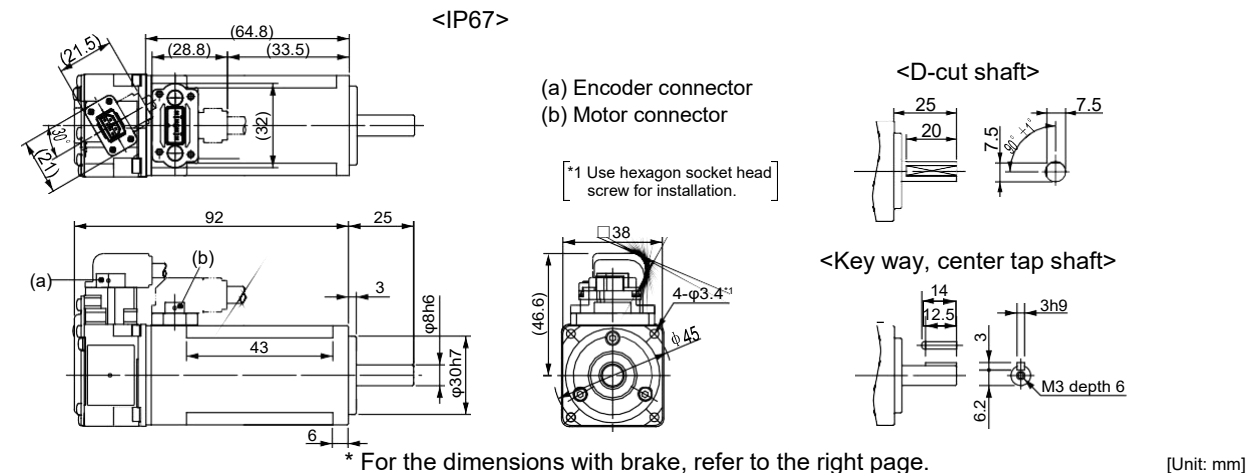
• For details of Note 1 to Note 5, refer to P.182, P.183.
• Dimensions of Driver, refer to P.42.
^{*1} Motor specifications: □
^{*2} The product that the end of driver model designation has "E" is "Position control type". Detail of model designation, refer to P.16.
^{*3} ◇ in number of applicable driver represents the series. For more information about the part number, please refer to P.16.

Torque characteristics (at AC100 V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions <In Case of Without Brake, Cable direction to output shaft.>

• Motor cables for opposite to output shaft cannot be used with 100 W motor. Mass: 0.46 kg



* For the dimensions with brake, refer to the right 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.

Specifications

		AC200 V	
Motor model ^{*1}	IP65	-	-
	IP67	MSME012G1□	MSME012S1□
Applicable driver ^{*2}	Model No.	MAD◇T1505	
	A5II, A5 series	MAD◇T1505E	-
	A5IE, A5E series	-	-
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}	
	DV0P4280	No limit ^{Note)2}	
Rated rotational speed (r/min)		3000	
Max. rotational speed (r/min)		6000	
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 specifications ^{Note)5}		20-bit Incremental	17-bit Absolute
	Resolution per single turn	1048576	131072

• Brake specifications (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.)

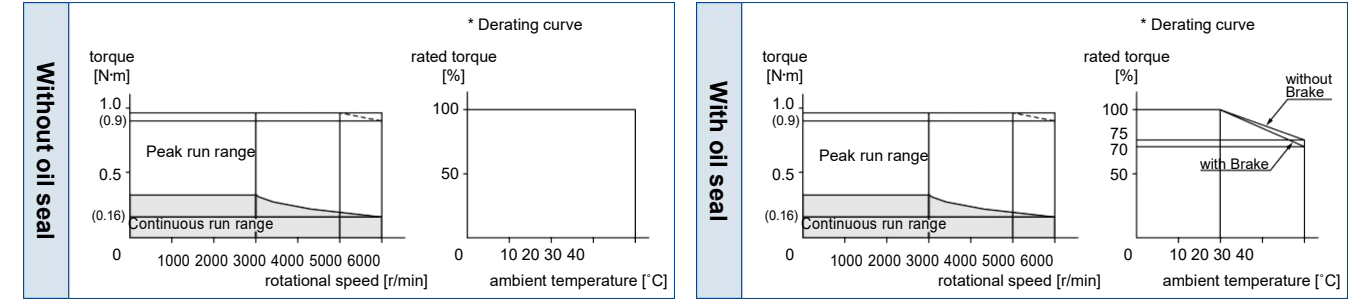
Static friction torque (N·m)	0.29 or more
Engaging time (ms)	35 or less
Releasing time (ms) ^{Note)4}	20 or less
Exciting current (DC) (A)	0.3
Releasing voltage (DC) (V)	1 or more
Exciting voltage (DC) (V)	24±1.2

• 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

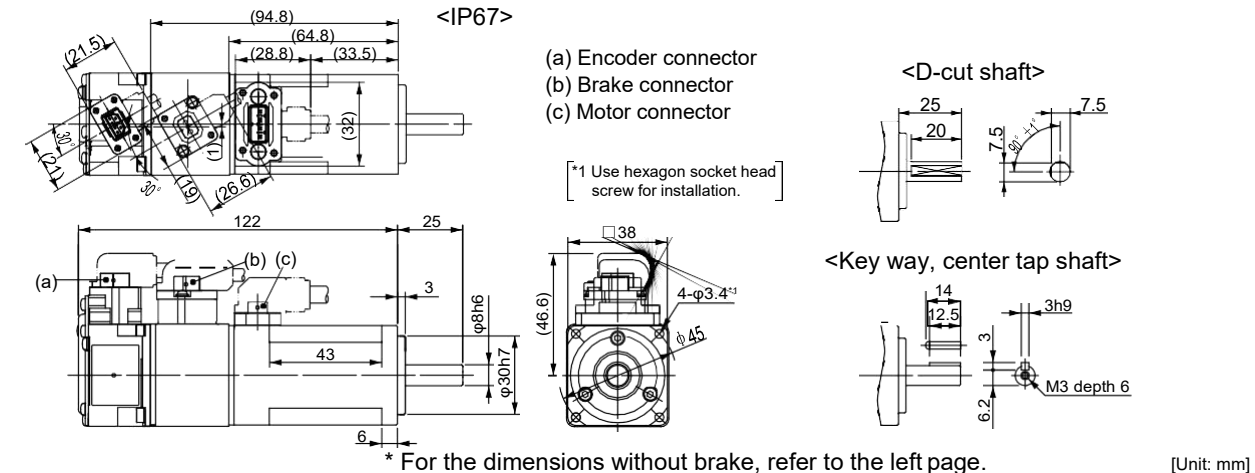
• For details of Note 1 to Note 5, refer to P.182, P.183.
• Dimensions of Driver, refer to P.42.
^{*1} Motor specifications: □
^{*2} The product that the end of driver model designation has "E" is "Position control type". Detail of model designation, refer to P.16.
^{*3} ◇ in number of applicable driver 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.>)



Dimensions <In Case of With Brake, Cable direction to output shaft.>

• Motor cables for opposite to output shaft cannot be used with 100 W motor. Mass: 0.66 kg



* 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.

Specifications

		AC100 V	
Motor model *1	IP65	-	-
	IP67	MSME021G1□	MSME021S1□
Applicable driver *2	Model No.	MBD◇T2110	
	A5II, A5 series	MBD◇T2110E	-
	A5IE, A5E series	-	-
Frame symbol		B-frame	
Power supply capacity (kVA)		0.5	
Rated output (W)		200	
Rated torque (N·m)		0.64	
Momentary Max. peak torque (N·m)		1.91	
Rated current (A(rms))		2.5	
Max. current (A(o-p))		10.6	
Regenerative brake frequency (times/min) Note1	Without option	No limit Note2	
	DV0P4283	No limit Note2	
Rated rotational speed (r/min)		3000	
Max. rotational speed (r/min)		6000	
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	0.14	
	With brake	0.16	
Recommended moment of inertia ratio of the load and the rotor Note3		30 times or less	
Rotary encoder specifications Note5	20-bit Incremental		17-bit Absolute
	Resolution per single turn	1048576	131072

• **Brake specifications** (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)	1.27 or more
Engaging time (ms)	50 or less
Releasing time (ms) Note4	15 or less
Exciting current (DC) (A)	0.36
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)	392
	Thrust load A-direction (N)	147
	Thrust load B-direction (N)	196
During operation	Radial load P-direction (N)	245
	Thrust load A, B-direction (N)	98

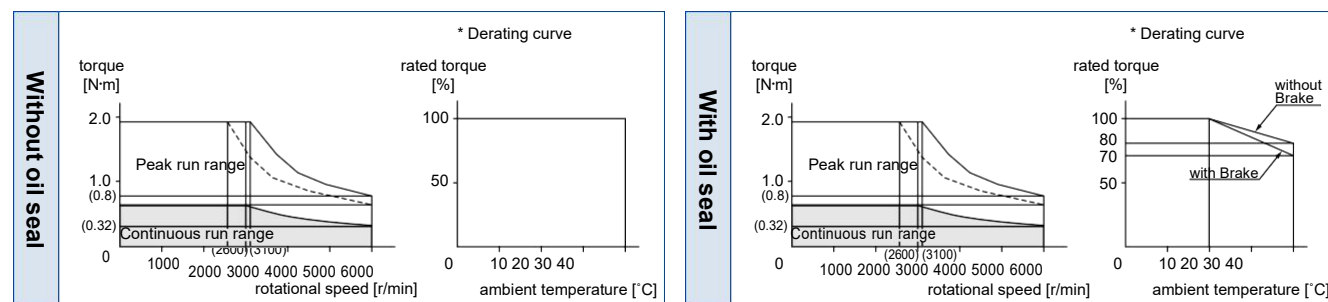
• For details of Note 1 to Note 5, refer to P.182, P.183.
• Dimensions of Driver, refer to P.42.

*1 Motor specifications: □

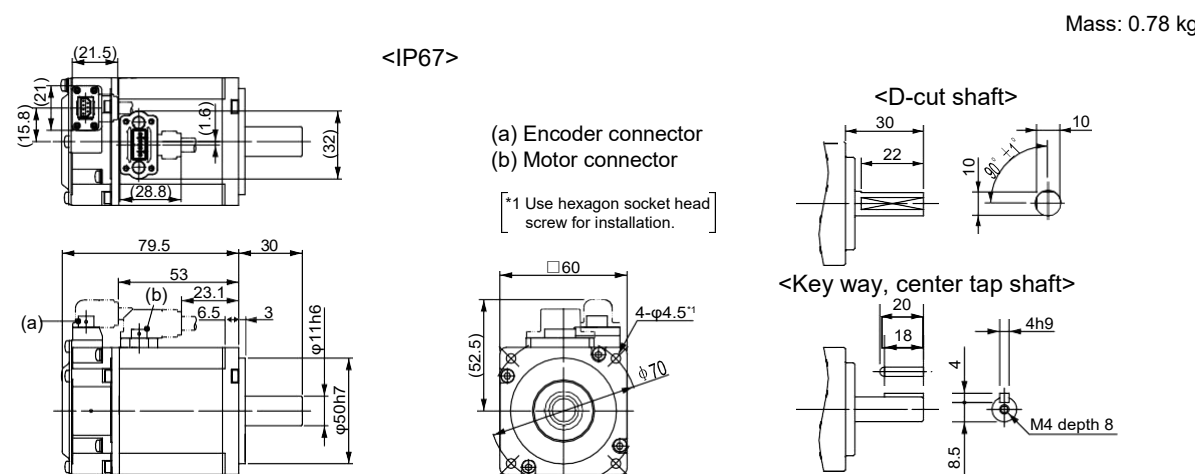
*2 The product that the end of driver model designation has "E" is "Position control type".
Detail of model designation, refer to P.16.

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

Torque characteristics (at AC100 V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions <In Case of Without Brake, Cable direction to output shaft.>



* For the dimensions with brake, refer to the right 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.

Specifications

		AC200 V	
Motor model *1	IP65	-	-
	IP67	MSME022G1□	MSME022S1□
Applicable driver *2	Model No.	MAD◇T1507	
	A5II, A5 series	MAD◇T1507E	-
	A5IE, A5E series	-	-
Frame symbol		A-frame	
Power supply capacity (kVA)		0.5	
Rated output (W)		200	
Rated torque (N·m)		0.64	
Momentary Max. peak torque (N·m)		1.91	
Rated current (A(rms))		1.5	
Max. current (A(o-p))		6.5	
Regenerative brake frequency (times/min) Note1	Without option	No limit Note2	
	DV0P4283	No limit Note2	
Rated rotational speed (r/min)		3000	
Max. rotational speed (r/min)		6000	
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	0.14	
	With brake	0.16	
Recommended moment of inertia ratio of the load and the rotor Note3		30 times or less	
Rotary encoder specifications Note5	20-bit Incremental		17-bit Absolute
	Resolution per single turn	1048576	131072

• **Brake specifications** (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)	1.27 or more
Engaging time (ms)	50 or less
Releasing time (ms) Note4	15 or less
Exciting current (DC) (A)	0.36
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)	392
	Thrust load A-direction (N)	147
	Thrust load B-direction (N)	196
During operation	Radial load P-direction (N)	245
	Thrust load A, B-direction (N)	98

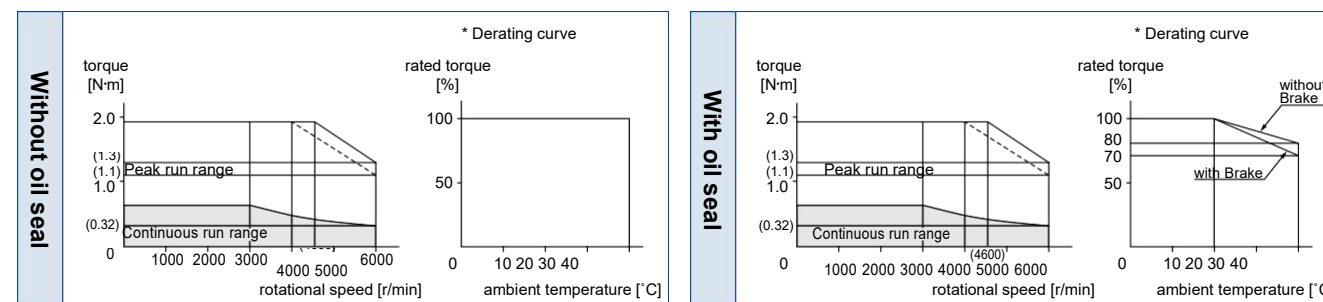
• For details of Note 1 to Note 5, refer to P.182, P.183.
• Dimensions of Driver, refer to P.42.

*1 Motor specifications: □

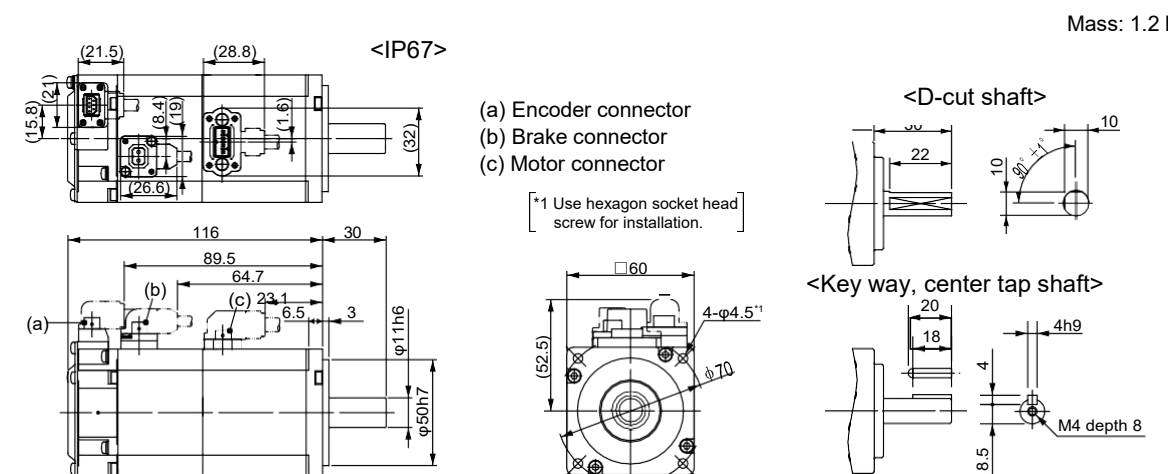
*2 The product that the end of driver model designation has "E" is "Position control type".
Detail of model designation, refer to P.16.

*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.>)



Dimensions <In Case of With Brake, Cable direction to output 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.

Specifications

		AC100 V	
Motor model ^{*1}	IP65	-	-
	IP67	MSME041G1□	MSME041S1□
Applicable driver ^{*2}	Model No.	MCD◇T3120	
	A5II, A5 series	MCD◇T3120E	-
	A5IE, A5E series	-	-
Frame symbol		C-frame	
Power supply capacity (kVA)		0.9	
Rated output (W)		400	
Rated torque (N·m)		1.3	
Momentary Max. peak torque (N·m)		3.8	
Rated current (A(rms))		4.6	
Max. current (A(o-p))		19.5	
Regenerative brake frequency (times/min) ^{Note1}	Without option	No limit ^{Note2}	
	DV0P4282	No limit ^{Note2}	
Rated rotational speed (r/min)		3000	
Max. rotational speed (r/min)		6000	
Moment of inertia of rotor ($\times 10^{-4}$ kg·m ²)	Without brake	0.26	
	With brake	0.28	
Recommended moment of inertia ratio of the load and the rotor ^{Note3}		30 times or less	
Rotary encoder specifications ^{Note5}		20-bit Incremental	17-bit Absolute
	Resolution per single turn	1048576	131072

• **Brake specifications** (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)	1.27 or more
Engaging time (ms)	50 or less
Releasing time (ms) ^{Note4}	15 or less
Exciting current (DC) (A)	0.36
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)	392
	Thrust load A-direction (N)	147
	Thrust load B-direction (N)	196
During operation	Radial load P-direction (N)	245
	Thrust load A, B-direction (N)	98

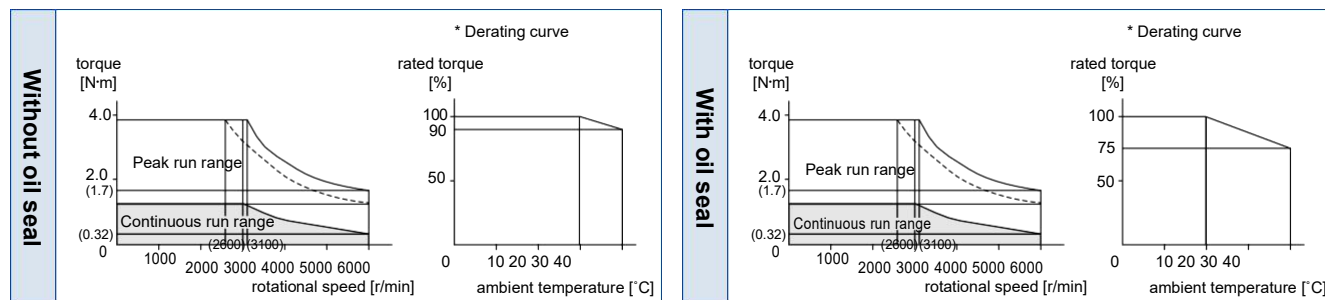
• For details of Note 1 to Note 5, refer to P.182, P.183.
• Dimensions of Driver, refer to P.43.

*1 Motor specifications: □

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

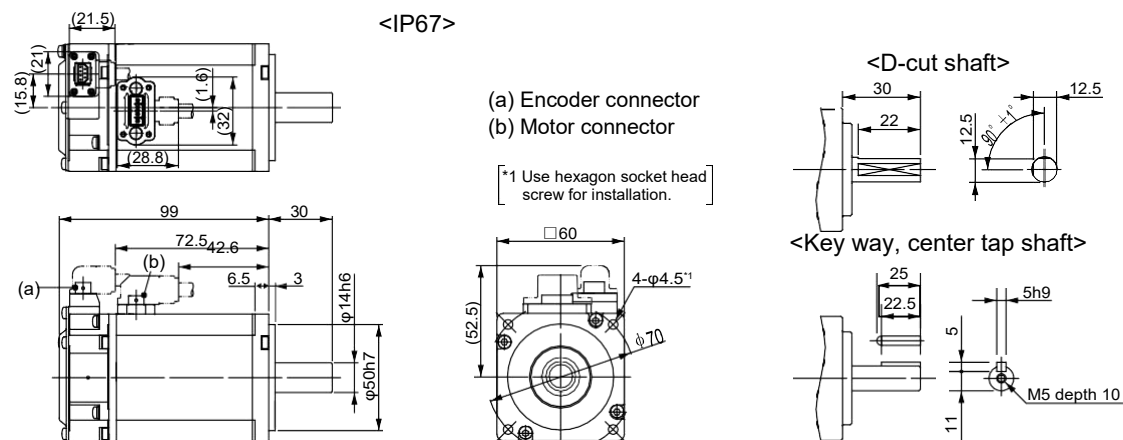
*3 ◇ in number of applicable driver represents the series. For more information about the part number, please refer to P.16.

Torque characteristics (at AC100 V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions <In Case of Without Brake, Cable direction to output shaft.>

Mass: 1.2 kg



* For the dimensions with brake, refer to the right 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.

Specifications

		AC200 V	
Motor model ^{*1}	IP65	-	-
	IP67	MSME042G1□	MSME042S1□
Applicable driver ^{*2}	Model No.	MBD◇T2510	
	A5II, A5 series	MBD◇T2510E	-
	A5IE, A5E series	-	-
Frame symbol		B-frame	
Power supply capacity (kVA)		0.9	
Rated output (W)		400	
Rated torque (N·m)		1.3	
Momentary Max. peak torque (N·m)		3.8	
Rated current (A(rms))		2.4	
Max. current (A(o-p))		10.2	
Regenerative brake frequency (times/min) ^{Note1}	Without option	No limit ^{Note2}	
	DV0P4283	No limit ^{Note2}	
Rated rotational speed (r/min)		3000	
Max. rotational speed (r/min)		6000	
Moment of inertia of rotor ($\times 10^{-4}$ kg·m ²)	Without brake	0.26	
	With brake	0.28	
Recommended moment of inertia ratio of the load and the rotor ^{Note3}		30 times or less	
Rotary encoder specifications ^{Note5}		20-bit Incremental	17-bit Absolute
	Resolution per single turn	1048576	131072

• **Brake specifications** (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)	1.27 or more
Engaging time (ms)	50 or less
Releasing time (ms) ^{Note4}	15 or less
Exciting current (DC) (A)	0.36
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)	392
	Thrust load A-direction (N)	147
	Thrust load B-direction (N)	196
During operation	Radial load P-direction (N)	245
	Thrust load A, B-direction (N)	98

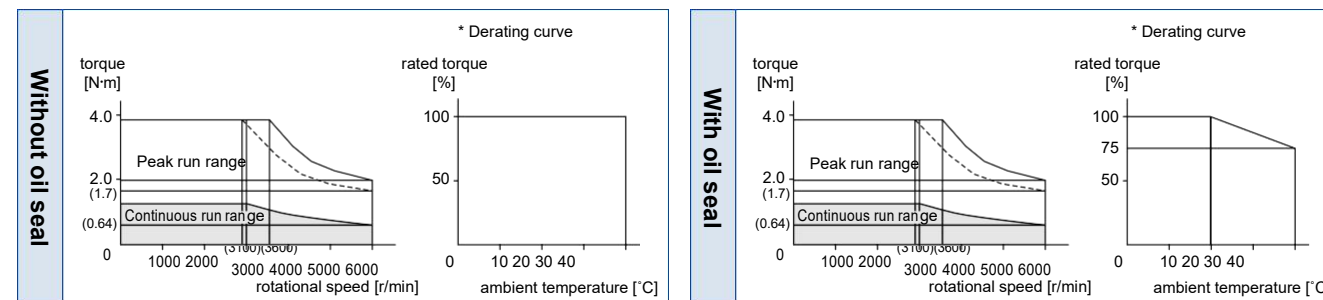
• For details of Note 1 to Note 5, refer to P.182, P.183.
• Dimensions of Driver, refer to P.42.

*1 Motor specifications: □

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

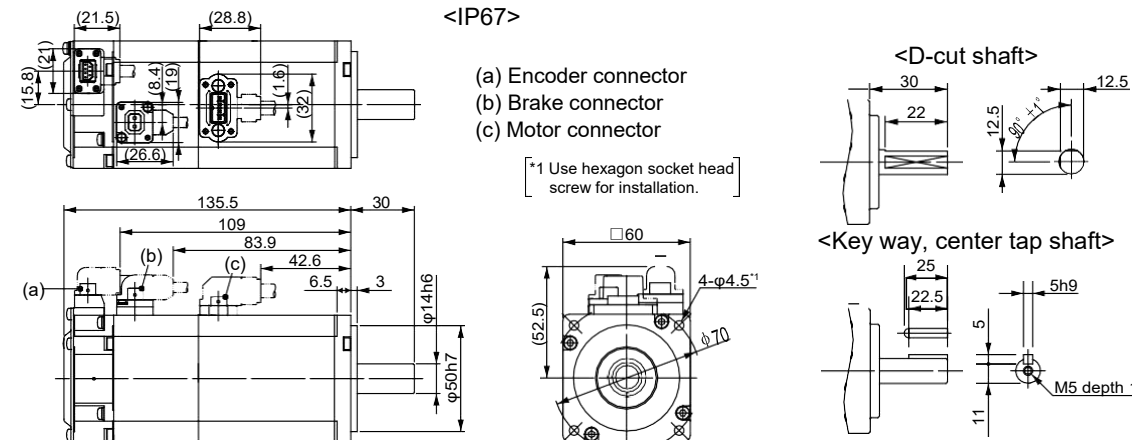
*3 ◇ in number of applicable driver represents the series. For more information about the part number, please refer to P.16.

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



Dimensions <In Case of With Brake, Cable direction to output shaft.>

Mass: 1.6 kg



* 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.

Specifications

		AC200 V	
Motor model *1	IP65	-	-
	IP67	MSME082G1□	MSME082S1□
Applicable driver *2	Model No.	MCD◇T3520	
	A5II, A5 series	MCD◇T3520E	-
	A5IE, A5E series	-	-
Frame symbol		C-frame	
Power supply capacity (kVA)	1.3		
Rated output (W)	750		
Rated torque (N·m)	2.4		
Momentary Max. peak torque (N·m)	7.1		
Rated current (A(rms))	4.1		
Max. current (A(o-p))	17.4		
Regenerative brake frequency (times/min) Note1	Without option	No limit Note2	
	DV0P4283	No limit Note2	
Rated rotational speed (r/min)	3000		
Max. rotational speed (r/min)	6000		
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	0.87	
	With brake	0.97	
Recommended moment of inertia ratio of the load and the rotor Note3	20 times or less		
Rotary encoder specifications Note5	20-bit Incremental	17-bit Absolute	
	Resolution per single turn	1048576	131072

• **Brake specifications** (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)	2.45 or more
Engaging time (ms)	70 or less
Releasing time (ms) Note4	20 or less
Exciting current (DC) (A)	0.42
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)	686
	Thrust load A-direction (N)	294
	Thrust load B-direction (N)	392
During operation	Radial load P-direction (N)	392
	Thrust load A, B-direction (N)	147

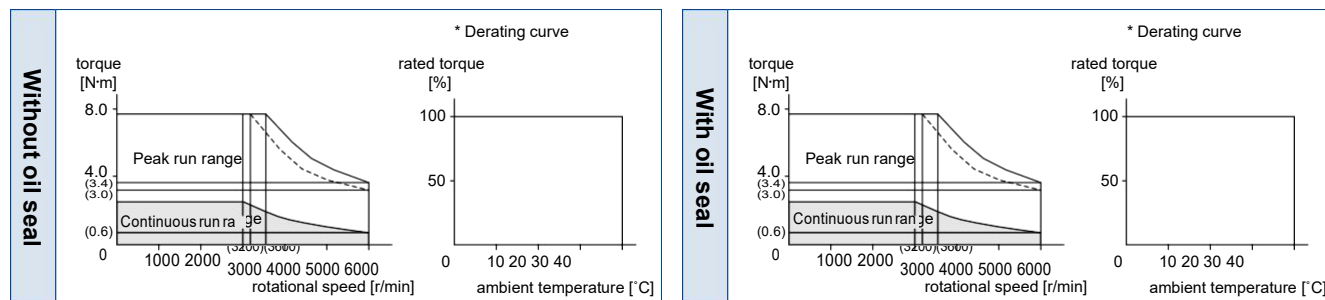
• For details of Note 1 to Note 5, refer to P.182, P.183.
• Dimensions of Driver, refer to P.43.

*1 Motor specifications: □

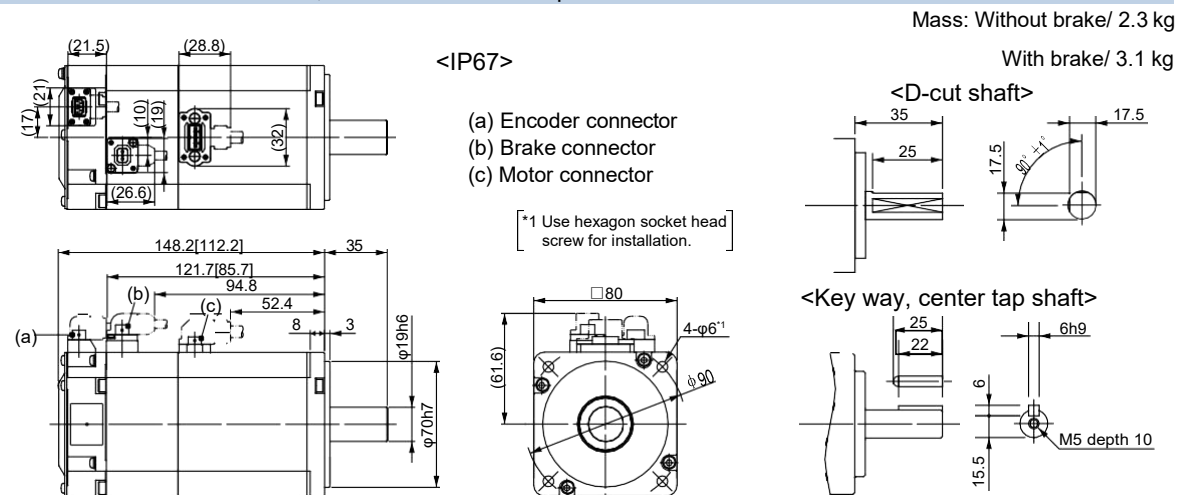
*2 The product that the end of driver model designation has "E" is "Position control type".
Detail of model designation, refer to P.16.

*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.>)



Dimensions <In Case of With Brake, Cable direction to output shaft.>



* Figures in [] represent the dimensions without 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.

Specifications

		AC200 V	
Motor model *1	IP65	MSME102GC□	MSME102SC□
	IP67	MSME102G1□	MSME102S1□
Applicable driver *2	Model No.	MDD◇T5540	
	A5II, A5 series	MDD◇T5540E	-
	A5IE, A5E series	-	-
Frame symbol		D-frame	
Power supply capacity (kVA)	1.8		
Rated output (W)	1000		
Rated torque (N·m)	3.18		
Momentary Max. peak torque (N·m)	9.55		
Rated current (A(rms))	6.6		
Max. current (A(o-p))	28		
Regenerative brake frequency (times/min) Note1	Without option	No limit Note2	
	DV0P4284	No limit Note2	
Rated rotational speed (r/min)	3000		
Max. rotational speed (r/min)	5000		
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	2.03	
	With brake	2.35	
Recommended moment of inertia ratio of the load and the rotor Note3	15 times or less		
Rotary encoder specifications Note5	20-bit Incremental	17-bit Absolute	
	Resolution per single turn	1048576	131072

• **Brake specifications** (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)	7.8 or more
Engaging time (ms)	50 or less
Releasing time (ms) Note4	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

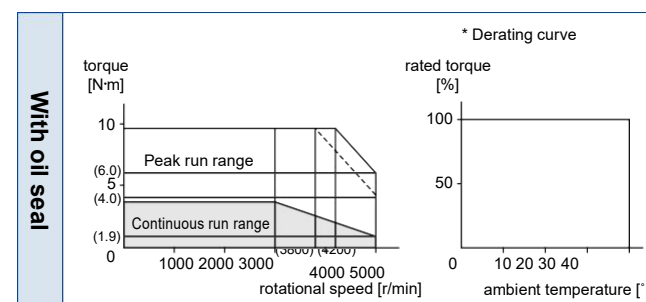
• For details of Note 1 to Note 5, refer to P.182, P.183.
• Dimensions of Driver, refer to P.43.

*1 Motor specifications: □

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

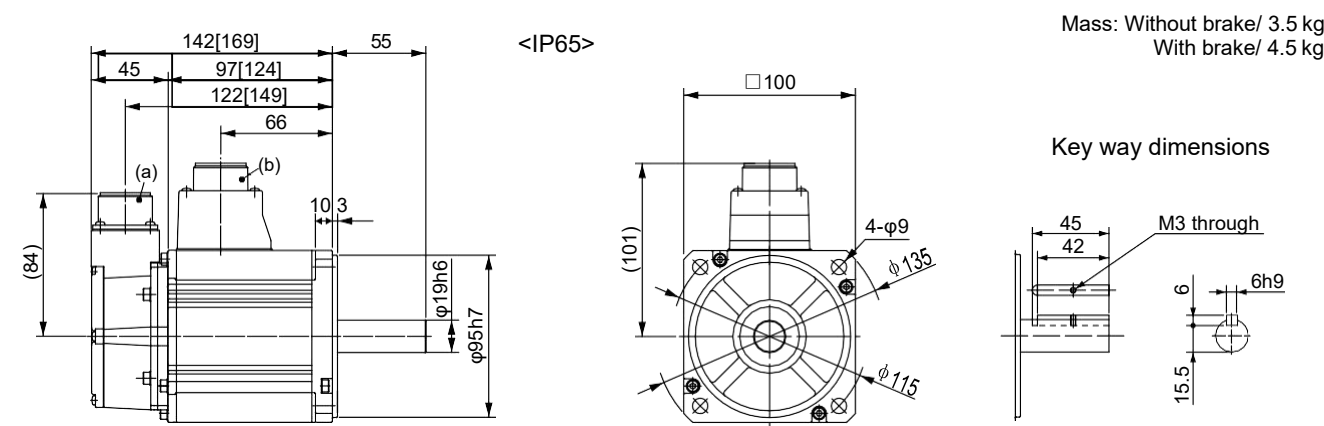
*3 ◇ in number of applicable driver represents the series. For more information about the part number, please refer to P.16.

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



Dimensions

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



(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.

Specifications

		AC200 V	
Motor model *1	IP65	MSME152GC□	MSME152SC□
	IP67	MSME152G1□	MSME152S1□
Applicable driver *2	Model No.	MDD◇T5540	
	A5II, A5 series	MDD◇T5540E	-
	A5IE, A5E series	-	-
Frame symbol		D-frame	
Power supply capacity (kVA)	2.3		
Rated output (W)	1500		
Rated torque (N·m)	4.77		
Momentary Max. peak torque (N·m)	14.3		
Rated current (A(rms))	8.2		
Max. current (A(o-p))	35		
Regenerative brake frequency (times/min) Note1	Without option	No limit Note2	
	DV0P4284	No limit Note2	
Rated rotational speed (r/min)	3000		
Max. rotational speed (r/min)	5000		
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	2.84	
	With brake	3.17	
Recommended moment of inertia ratio of the load and the rotor Note3	15 times or less		
Rotary encoder specifications Note5	20-bit Incremental	17-bit Absolute	
	Resolution per single turn	1048576	131072

• **Brake specifications** (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)	7.8 or more
Engaging time (ms)	50 or less
Releasing time (ms) Note4	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.

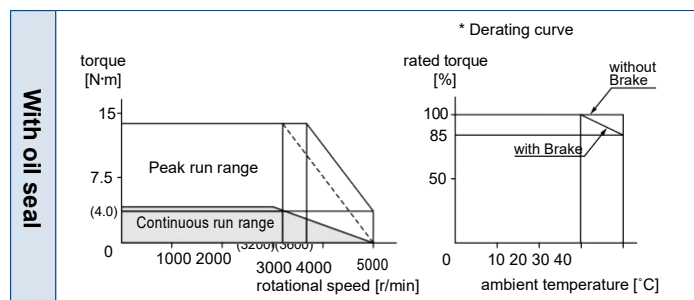
• Dimensions of Driver, refer to P.43.

*1 Motor specifications: □

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

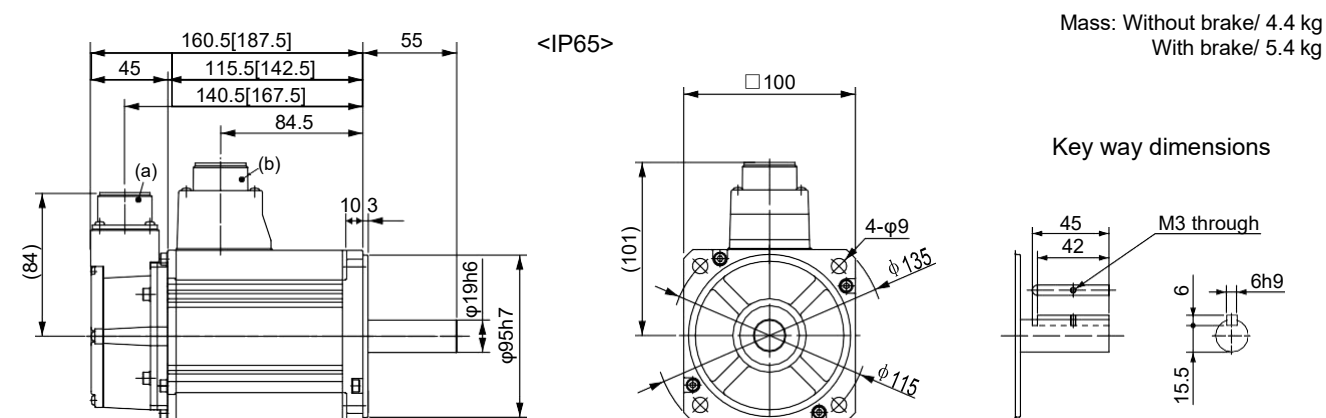
*3 ◇ in number of applicable driver represents the series. For more information about the part number, please refer to P.16.

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



Dimensions

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



(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.

Specifications

		AC200 V	
Motor model *1	IP65	MSME202GC□	MSME202SC□
	IP67	MSME202G1□	MSME202S1□
Applicable driver *2	Model No.	MED◇T7364	
	A5II, A5 series	MED◇T7364E	-
	A5IE, A5E series	-	-
Frame symbol		E-frame	
Power supply capacity (kVA)	3.3		
Rated output (W)	2000		
Rated torque (N·m)	6.37		
Momentary Max. peak torque (N·m)	19.1		
Rated current (A(rms))	11.3		
Max. current (A(o-p))	48		
Regenerative brake frequency (times/min) Note1	Without option	No limit Note2	
	DV0P4285	No limit Note2	
Rated rotational speed (r/min)	3000		
Max. rotational speed (r/min)	5000		
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	3.68	
	With brake	4.01	
Recommended moment of inertia ratio of the load and the rotor Note3	15 times or less		
Rotary encoder specifications Note5	20-bit Incremental	17-bit Absolute	
	Resolution per single turn	1048576	131072

• **Brake specifications** (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)	7.8 or more
Engaging time (ms)	50 or less
Releasing time (ms) Note4	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.

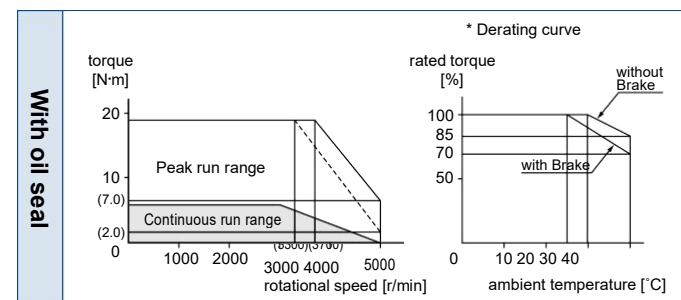
• Dimensions of Driver, refer to P.44.

*1 Motor specifications: □

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

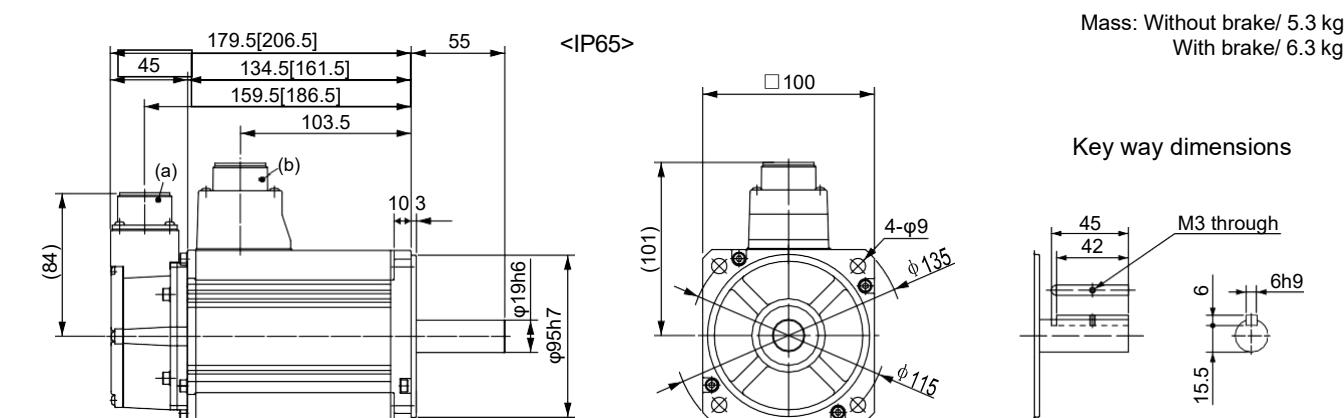
*3 ◇ in number of applicable driver represents the series. For more information about the part number, please refer to P.16.

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



Dimensions

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



(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.

Specifications

		AC200 V	
Motor model *1	IP65	MSME302GC□	MSME302SC□
	IP67	MSME302G1□	MSME302S1□
Applicable driver *2	Model No.	MFD◇TA390	
	A5II, A5 series	MFD◇TA390E	-
	A5IE, A5E series	-	-
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))	18.1		
Max. current (A(o-p))	77		
Regenerative brake frequency (times/min) Note)1	Without option	No limit Note)2	
	DV0P4285×2	No limit Note)2	
Rated rotational speed (r/min)	3000		
Max. rotational speed (r/min)	5000		
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	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 specifications Note)5	20-bit Incremental	17-bit Absolute	
	Resolution per single turn	1048576	131072

• **Brake specifications** (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.

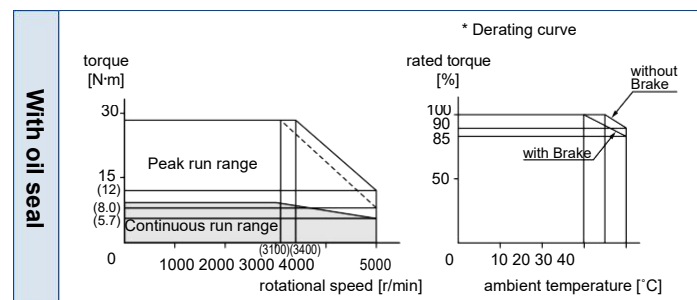
• Dimensions of Driver, refer to P.45.

*1 Motor specifications: □

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

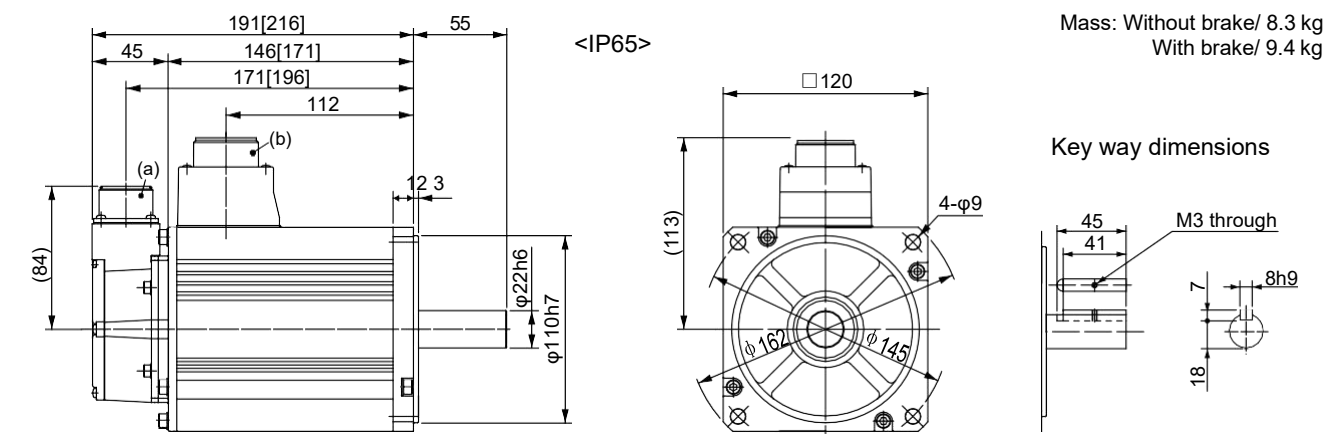
*3 ◇ in number of applicable driver represents the series. For more information about the part number, please refer to P.16.

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



Dimensions

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



(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.

Specifications

		AC200 V	
Motor model *1	IP65	MSME402GC□	MSME402SC□
	IP67	MSME402G1□	MSME402S1□
Applicable driver *2	Model No.	MFD◇TB3A2	
	A5II, A5 series	MFD◇TB3A2E	-
	A5IE, A5E series	-	-
Frame symbol		F-frame	
Power supply capacity (kVA)	6.0		
Rated output (W)	4000		
Rated torque (N·m)	12.7		
Momentary Max. peak torque (N·m)	38.2		
Rated current (A(rms))	19.6		
Max. current (A(o-p))	83		
Regenerative brake frequency (times/min) Note)1	Without option	No limit Note)2	
	DV0P4285×2	No limit Note)2	
Rated rotational speed (r/min)	3000		
Max. rotational speed (r/min)	4500		
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	12.9	
	With brake	14.2	
Recommended moment of inertia ratio of the load and the rotor Note)3	15 times or less		
Rotary encoder specifications Note)5	20-bit Incremental	17-bit Absolute	
	Resolution per single turn	1048576	131072

• **Brake specifications** (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)	16.2 or more
Engaging time (ms)	110 or less
Releasing time (ms) Note)4	50 or less
Exciting current (DC) (A)	0.90±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)	784
	Thrust load A, B-direction (N)	343

• For details of Note 1 to Note 5, refer to P.182, P.183.

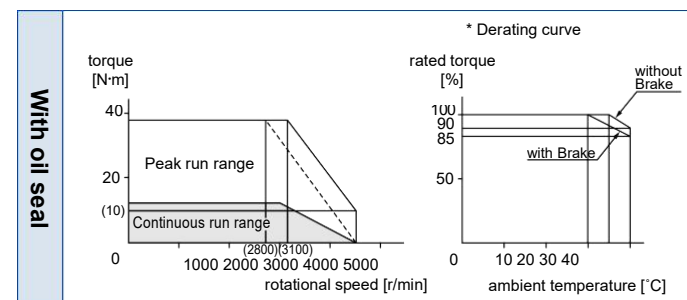
• Dimensions of Driver, refer to P.45.

*1 Motor specifications: □

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

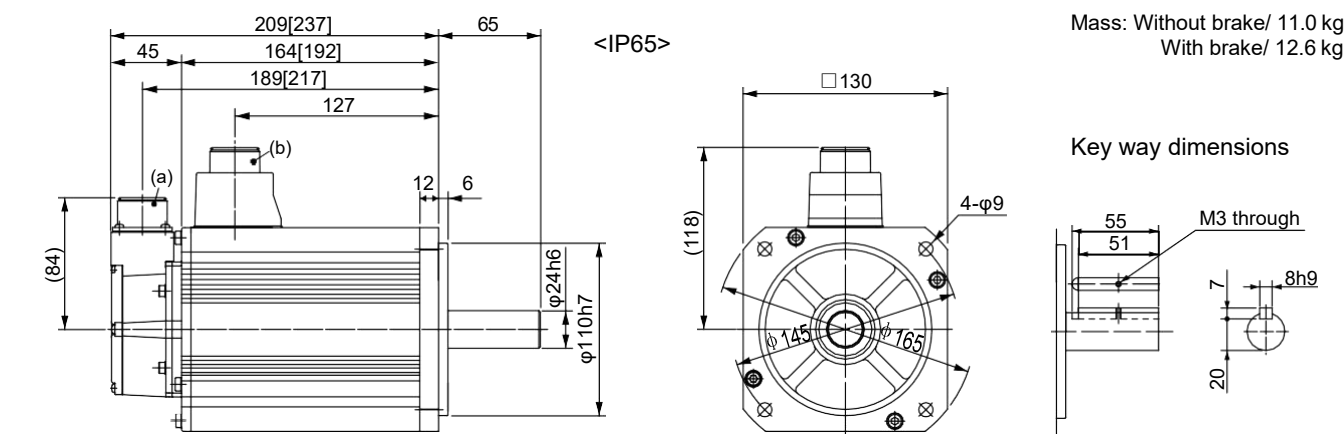
*3 ◇ in number of applicable driver represents the series. For more information about the part number, please refer to P.16.

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



Dimensions

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



(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.

Specifications

		AC200 V	
Motor model *1	IP65	MSME502GC□	MSME502SC□
	IP67	MSME502G1□	MSME502S1□
Applicable driver *2	Model No.	MFD◇TB3A2	
	A5II, A5 series	MFD◇TB3A2E	-
	A5IE, A5E series	-	-
Frame symbol		F-frame	
Power supply capacity (kVA)		7.5	
Rated output (W)		5000	
Rated torque (N·m)		15.9	
Momentary Max. peak torque (N·m)		47.7	
Rated current (A(rms))		24.0	
Max. current (A(o-p))		102	
Regenerative brake frequency (times/min)Note1	Without option	357	
	DV0P4285×2	No limit Note2	
Rated rotational speed (r/min)		3000	
Max. rotational speed (r/min)		4500	
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	17.4	
	With brake	18.6	
Recommended moment of inertia ratio of the load and the rotor Note3		15 times or less	
	Rotary encoder specifications Note5	20-bit Incremental	17-bit Absolute
Resolution per single turn		1048576	131072

• **Brake specifications** (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)	16.2 or more
Engaging time (ms)	110 or less
Releasing time (ms) Note4	50 or less
Exciting current (DC) (A)	0.90±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)	784
	Thrust load A, B-direction (N)	343

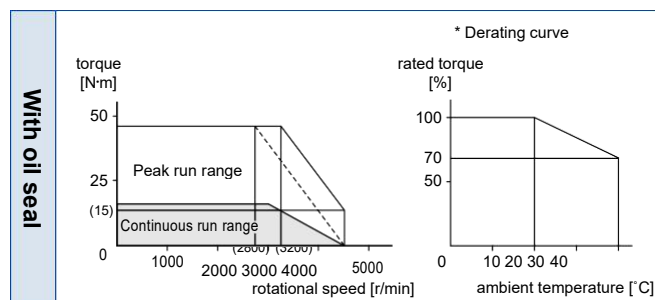
• For details of Note 1 to Note 5, refer to P.182, P.183.
• Dimensions of Driver, refer to P.45.

*1 Motor specifications: □

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

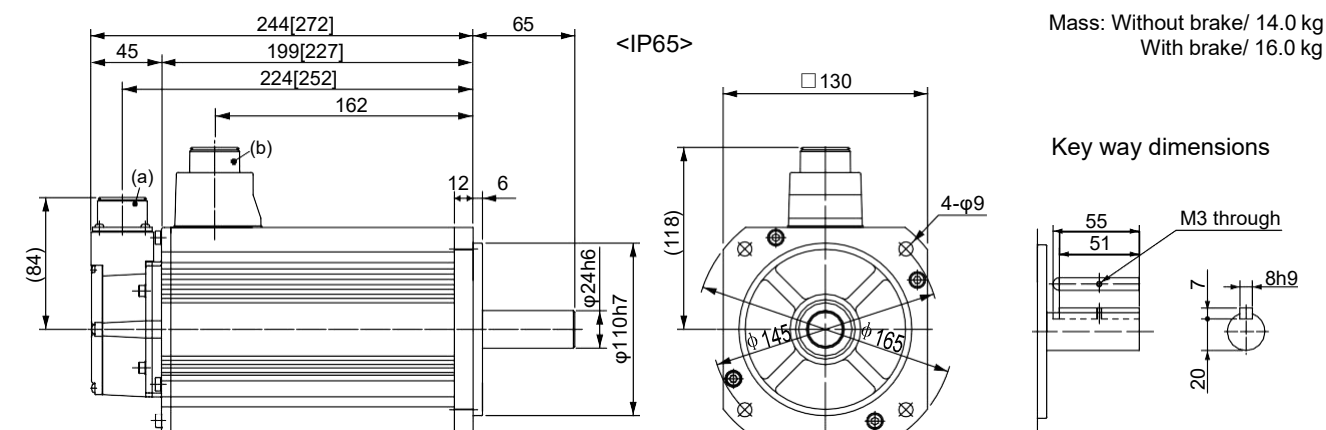
*3 ◇ in number of applicable driver represents the series. For more information about the part number, please refer to P.16.

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



Dimensions

(For IP67 motor, refer to P.138.)



Mass: Without brake/ 14.0 kg
With brake/ 16.0 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.

Specifications

		AC200 V	
Motor model *1	IP65	MDME102GC□	MDME102SC□
	IP67	MDME102G1□	MDME102S1□
Applicable driver *2	Model No.	MDD◇T3530	
	A5II, A5 series	MDD◇T3530E	-
	A5IE, A5E series	-	-
Frame symbol		D-frame	
Power supply capacity (kVA)		1.8	
Rated output (W)		1000	
Rated torque (N·m)		4.77	
Momentary Max. peak torque (N·m)		14.3	
Rated current (A(rms))		5.7	
Max. current (A(o-p))		24	
Regenerative brake frequency (times/min)Note1	Without option	No limit Note2	
	DV0P4284	No limit Note2	
Rated rotational speed (r/min)		2000	
Max. rotational speed (r/min)		3000	
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	4.60	
	With brake	5.90	
Recommended moment of inertia ratio of the load and the rotor Note3		10 times or less	
	Rotary encoder specifications Note5	20-bit Incremental	17-bit Absolute
Resolution per single turn		1048576	131072

• **Brake specifications** (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)	4.9 or more
Engaging time (ms)	80 or less
Releasing time (ms) Note4	70 or less
Exciting current (DC) (A)	0.59±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

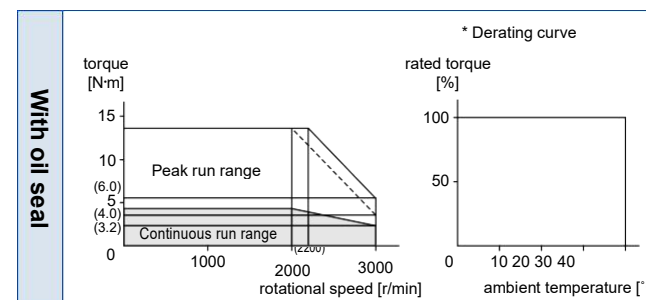
• For details of Note 1 to Note 5, refer to P.182, P.183.
• Dimensions of Driver, refer to P.43.

*1 Motor specifications: □

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

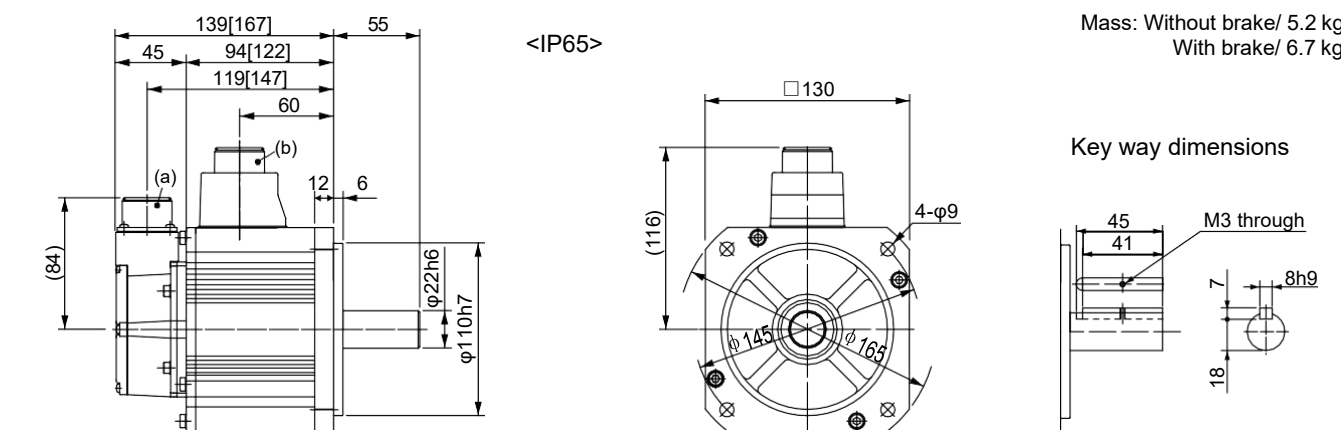
*3 ◇ in number of applicable driver represents the series. For more information about the part number, please refer to P.16.

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



Dimensions

(For IP67 motor, refer to P.138.)



Mass: Without brake/ 5.2 kg
With brake/ 6.7 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.

Specifications

		AC200 V	
Motor model *1	IP65	MDME152GC□	MDME152SC□
	IP67	MDME152G1□	MDME152S1□
Applicable driver *2	Model No.	MDD◇T5540	
	A5II, A5 series	MDD◇T5540E	-
	A5IE, A5E series	-	-
Frame symbol		D-frame	
Power supply capacity (kVA)	2.3		
Rated output (W)	1500		
Rated torque (N·m)	7.16		
Momentary Max. peak torque (N·m)	21.5		
Rated current (A(rms))	9.4		
Max. current (A(o-p))	40		
Regenerative brake frequency (times/min)Note1	Without option	No limit Note2	
	DV0P4284	No limit Note2	
Rated rotational speed (r/min)	2000		
Max. rotational speed (r/min)	3000		
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	6.70	
	With brake	7.99	
Recommended moment of inertia ratio of the load and the rotor Note3	10 times or less		
Rotary encoder specifications Note5	20-bit Incremental	17-bit Absolute	
	Resolution per single turn	1048576	131072

• **Brake specifications** (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)	13.7 or more
Engaging time (ms)	100 or less
Releasing time (ms) Note4	50 or less
Exciting current (DC) (A)	0.79±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

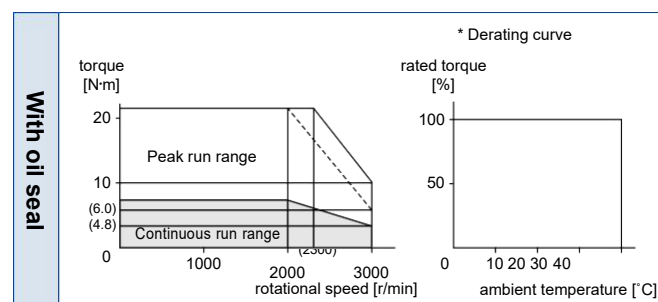
• For details of Note 1 to Note 5, refer to P.182, P.183.
• Dimensions of Driver, refer to P.43.

*1 Motor specifications: □

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

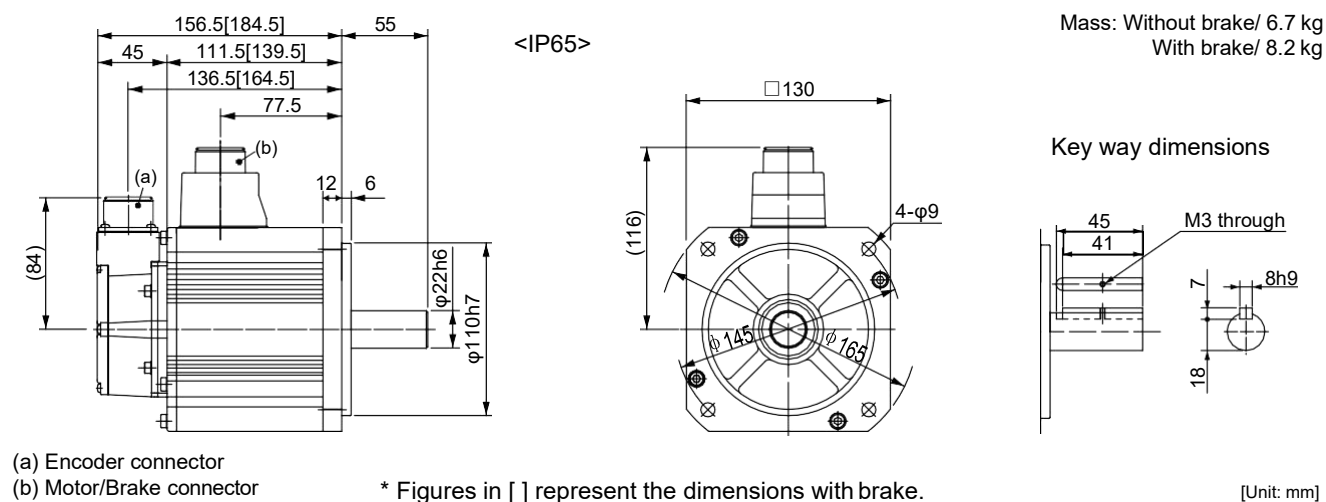
*3 ◇ in number of applicable driver represents the series. For more information about the part number, please refer to P.16.

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



Dimensions

(For IP67 motor, refer to P.138.)



(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.

Specifications

		AC200 V	
Motor model *1	IP65	MDME202GC□	MDME202SC□
	IP67	MDME202G1□	MDME202S1□
Applicable driver *2	Model No.	MED◇T7364	
	A5II, A5 series	MED◇T7364E	-
	A5IE, A5E series	-	-
Frame symbol		E-frame	
Power supply capacity (kVA)	3.3		
Rated output (W)	2000		
Rated torque (N·m)	9.55		
Momentary Max. peak torque (N·m)	28.6		
Rated current (A(rms))	11.5		
Max. current (A(o-p))	49		
Regenerative brake frequency (times/min)Note1	Without option	No limit Note2	
	DV0P4285	No limit Note2	
Rated rotational speed (r/min)	2000		
Max. rotational speed (r/min)	3000		
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	8.72	
	With brake	10.0	
Recommended moment of inertia ratio of the load and the rotor Note3	10 times or less		
Rotary encoder specifications Note5	20-bit Incremental	17-bit Absolute	
	Resolution per single turn	1048576	131072

• **Brake specifications** (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)	13.7 or more
Engaging time (ms)	100 or less
Releasing time (ms) Note4	50 or less
Exciting current (DC) (A)	0.79±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

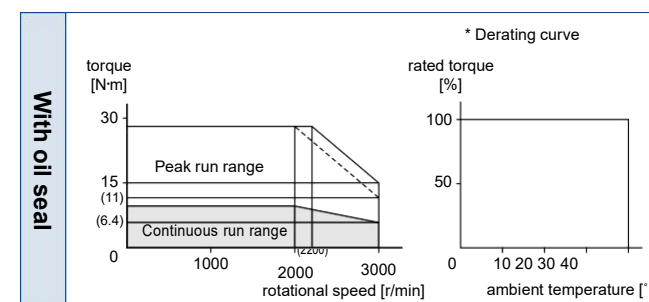
• For details of Note 1 to Note 5, refer to P.182, P.183.
• Dimensions of Driver, refer to P.44.

*1 Motor specifications: □

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

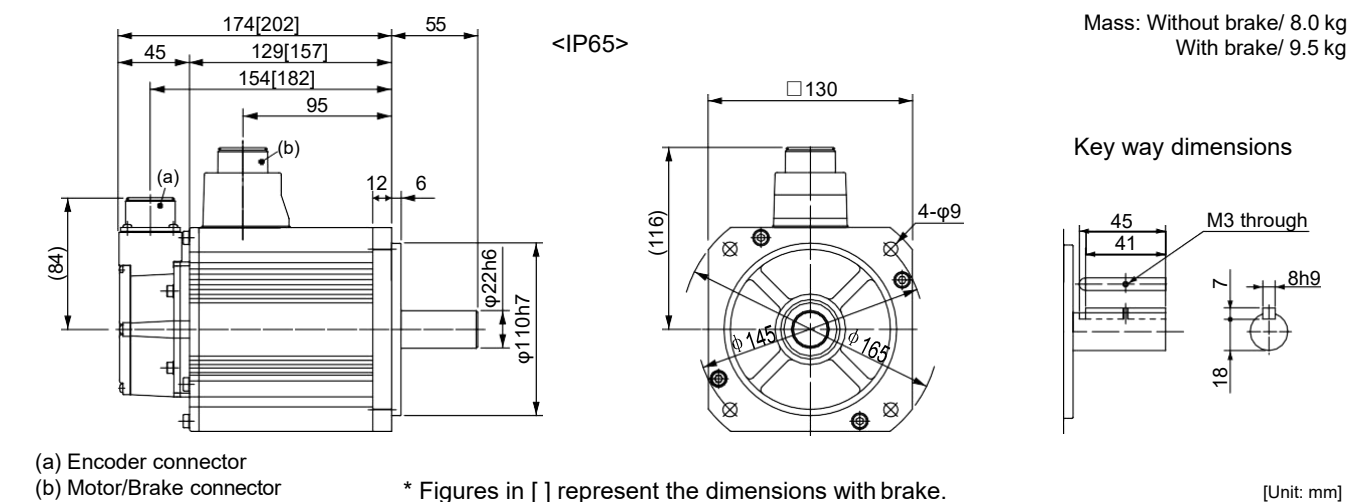
*3 ◇ in number of applicable driver represents the series. For more information about the part number, please refer to P.16.

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



Dimensions

(For IP67 motor, refer to P.138.)



(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.

Specifications

		AC200 V	
Motor model *1	IP65	MDME302GC□	MDME302SC□
	IP67	MDME302G1□	MDME302S1□
Applicable driver *2	Model No.	MFD◇TA390	
	A5II, A5 series	MFD◇TA390E	-
	A5IE, A5E series	-	-
Frame symbol		F-frame	
Power supply capacity (kVA)	4.5		
Rated output (W)	3000		
Rated torque (N·m)	14.3		
Momentary Max. peak torque (N·m)	43.0		
Rated current (A(rms))	17.4		
Max. current (A(o-p))	74		
Regenerative brake frequency (times/min) Note)1	Without option	No limit Note)2	
	DV0P4285×2	No limit Note)2	
Rated rotational speed (r/min)	2000		
Max. rotational speed (r/min)	3000		
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	12.9	
	With brake	14.2	
Recommended moment of inertia ratio of the load and the rotor Note)3	10 times or less		
Rotary encoder specifications Note)5	20-bit Incremental	17-bit Absolute	
	Resolution per single turn	1048576	131072

• **Brake specifications** (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.)

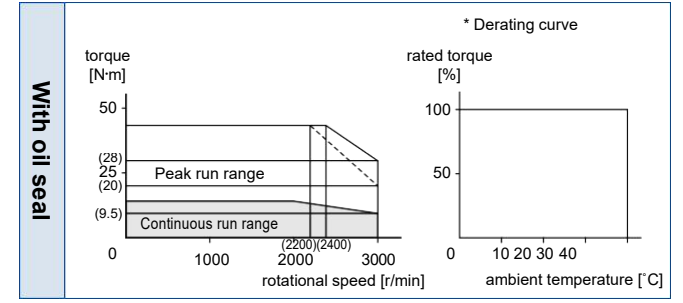
Static friction torque (N·m)	16.2 or more
Engaging time (ms)	110 or less
Releasing time (ms) Note)4	50 or less
Exciting current (DC) (A)	0.90±10 %
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

• **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)	784
	Thrust load A, B-direction (N)	343

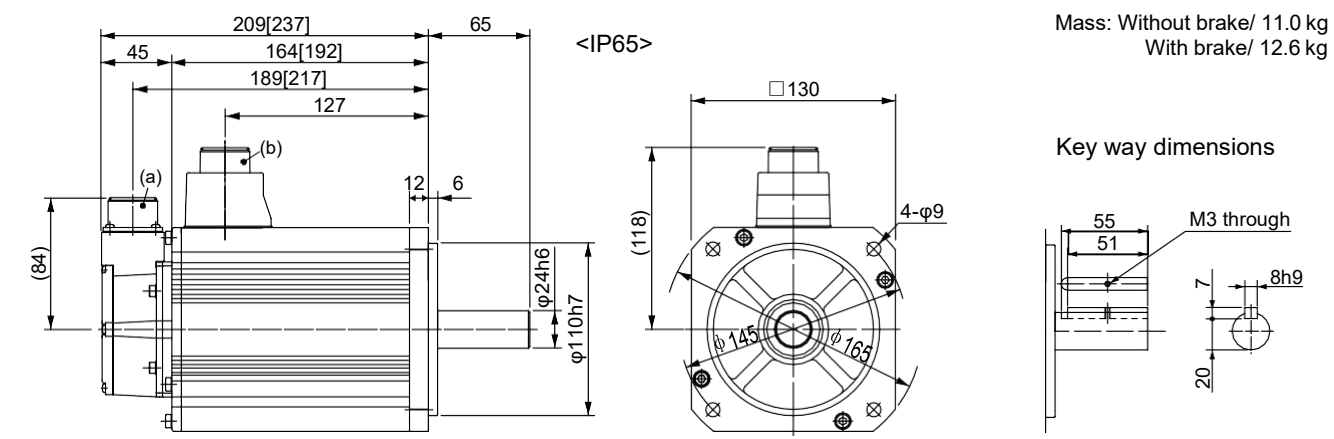
• For details of Note 1 to Note 5, refer to P.182, P.183.
• Dimensions of Driver, refer to P.45.
*1 Motor specifications: □
*2 The product that the end of driver model designation has "E" is "Position control type". Detail of model designation, refer to P.16.
*3 ◇ in number of applicable driver represents 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.>)



Dimensions

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



(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.

Specifications

		AC200 V	
Motor model *1	IP65	MDME402GC□	MDME402SC□
	IP67	MDME402G1□	MDME402S1□
Applicable driver *2	Model No.	MFD◇TB3A2	
	A5II, A5 series	MFD◇TB3A2E	-
	A5IE, A5E series	-	-
Frame symbol		F-frame	
Power supply capacity (kVA)	6.0		
Rated output (W)	4000		
Rated torque (N·m)	19.1		
Momentary Max. peak torque (N·m)	57.3		
Rated current (A(rms))	21.0		
Max. current (A(o-p))	89		
Regenerative brake frequency (times/min) Note)1	Without option	No limit Note)2	
	DV0P4285×2	No limit Note)2	
Rated rotational speed (r/min)	2000		
Max. rotational speed (r/min)	3000		
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	37.6	
	With brake	42.9	
Recommended moment of inertia ratio of the load and the rotor Note)3	10 times or less		
Rotary encoder specifications Note)5	20-bit Incremental	17-bit Absolute	
	Resolution per single turn	1048576	131072

• **Brake specifications** (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.)

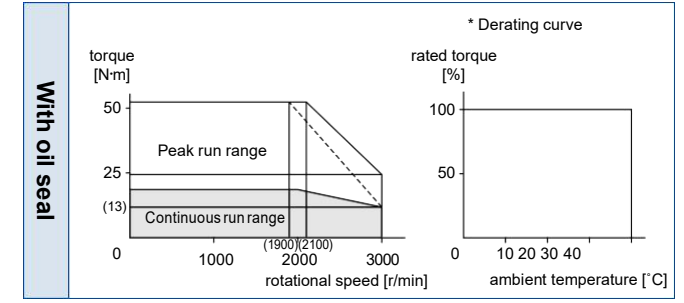
Static friction torque (N·m)	24.5 or more
Engaging time (ms)	80 or less
Releasing time (ms) Note)4	25 or less
Exciting current (DC) (A)	1.3±10 %
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

• **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

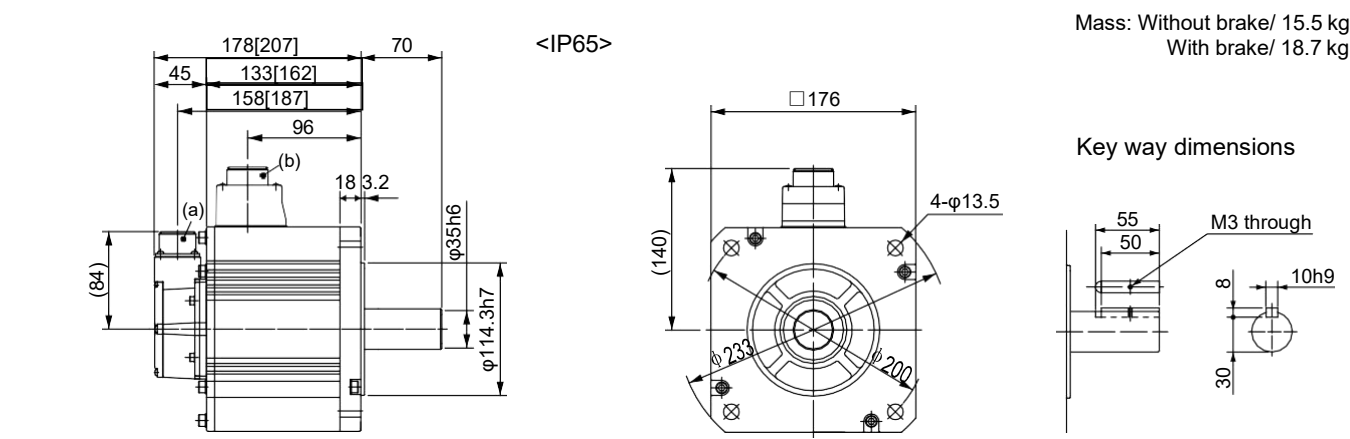
• For details of Note 1 to Note 5, refer to P.182, P.183.
• Dimensions of Driver, refer to P.45.
*1 Motor specifications: □
*2 The product that the end of driver model designation has "E" is "Position control type". Detail of model designation, refer to P.16.
*3 ◇ in number of applicable driver represents 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.>)



Dimensions

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



(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.

Specifications

		AC200 V	
Motor model *1	IP65	MDME502GC□	MDME502SC□
	IP67	MDME502G1□	MDME502S1□
Applicable driver *2	Model No.	MFD◇TB3A2	
		A5II, A5 series	MFD◇TB3A2E
	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))		25.9	
Max. current (A(o-p))		110	
Regenerative brake frequency (times/min)Note1	Without option	120	
	DV0P4285×2	No limit Note2	
Rated rotational speed (r/min)		2000	
Max. rotational speed (r/min)		3000	
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	48.0	
	With brake	53.3	
Recommended moment of inertia ratio of the load and the rotor Note3		10 times or less	
	Rotary encoder specifications Note5	20-bit Incremental	17-bit Absolute
	Resolution per single turn	1048576	131072

• **Brake specifications** (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) Note4	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

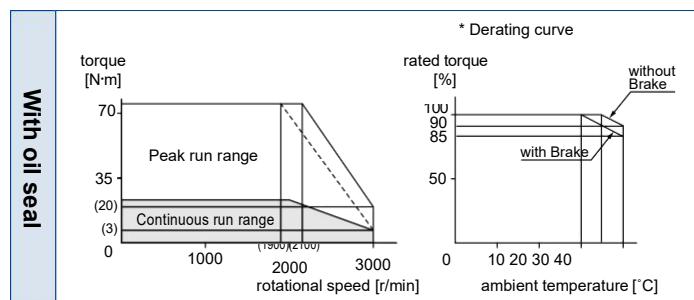
• For details of Note 1 to Note 5, refer to P.182, P.183.
• Dimensions of Driver, refer to P.45.

*1 Motor specifications: □

*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.

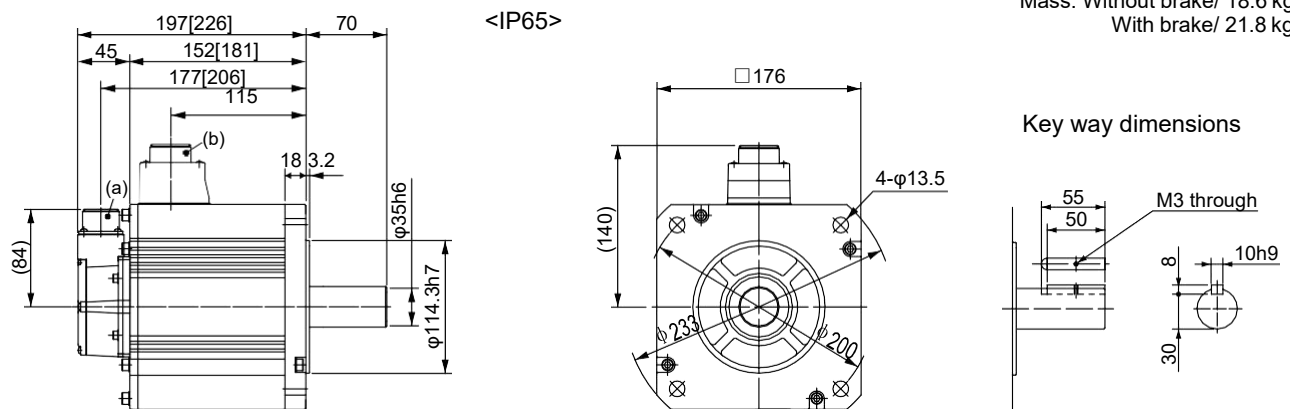
Torque characteristics (at AC200 V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions

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

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



(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.

Specifications

		AC200 V	
Motor model *1	IP65	-	-
	IP67	MDME752G1□	MDME752S1□
Applicable driver *2	Model No.	MGD◇TC3B4	
		A5II, A5 series	-
	Frame symbol	G-frame	
Power supply capacity (kVA)		11	
Rated output (W)		7500	
Rated torque (N·m)		47.8	
Momentary Max. peak torque (N·m)		119	
Rated current (A(rms))		44.0	
Max. current (A(o-p))		165	
Regenerative brake frequency (times/min)Note1	Without option	No limit Note2	
	DV0P4285×3	No limit Note2	
Rated rotational speed (r/min)		1500	
Max. rotational speed (r/min)		3000	
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	101	
	With brake	107	
Recommended moment of inertia ratio of the load and the rotor Note3		10 times or less	
	Rotary encoder specifications Note5	20-bit Incremental	17-bit Absolute
	Resolution per single turn	1048576	131072

• **Brake specifications** (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)	58.8 or more
Engaging time (ms)	150 or less
Releasing time (ms) Note4	50 or less
Exciting current (DC) (A)	1.4±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)	2058
	Thrust load A-direction (N)	980
	Thrust load B-direction (N)	1176
During operation	Radial load P-direction (N)	1176
	Thrust load A, B-direction (N)	490

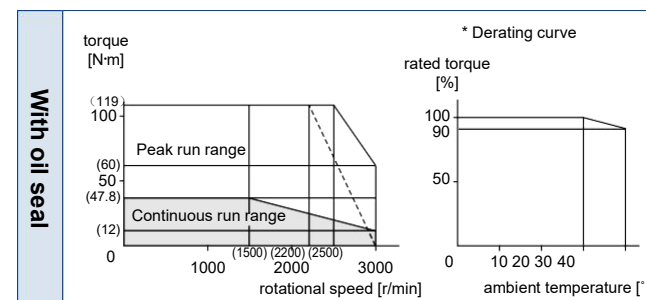
• For details of Note 1 to Note 5, refer to P.182, P.183.
• Dimensions of Driver, refer to P.46.

*1 Motor specifications: □

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

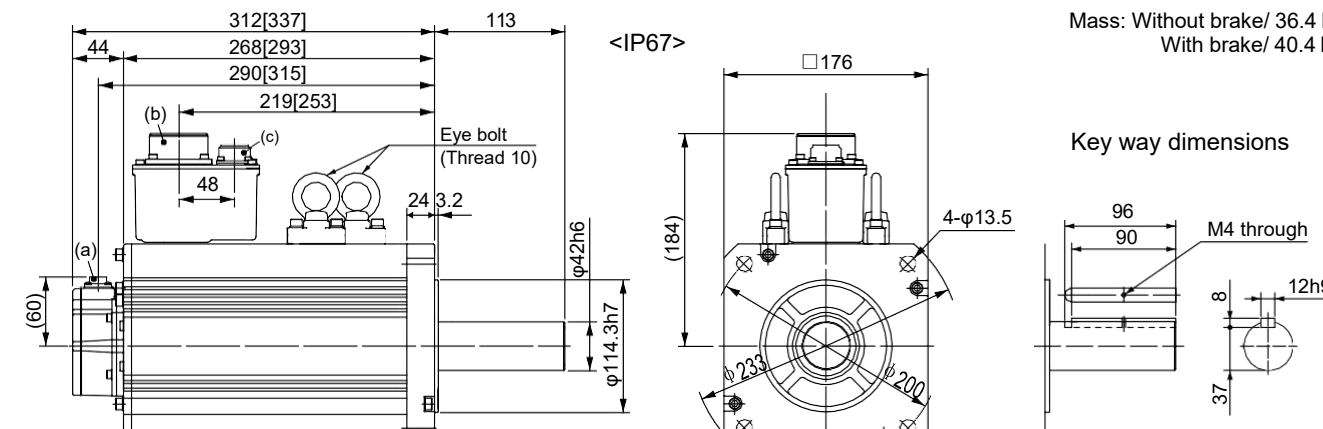
*3 ◇ in number of applicable driver represents the series. For more information about the part number, please refer to P.16.

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



Dimensions

Mass: Without brake/ 36.4 kg
With brake/ 40.4 kg



(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.

Specifications

		AC200 V	
Motor model *1	IP65	-	-
	IP67	MDMEC12G1□	MDMEC12S1□
Applicable driver *2	Model No.	MHD◇TC3B4	
		A5II, A5 series	A5IE, A5E series
	Frame symbol	H-frame	
Power supply capacity (kVA)		17	
Rated output (W)		11000	
Rated torque (N·m)		70.0	
Momentary Max. peak torque (N·m)		175	
Rated current (A(rms))		54.2	
Max. current (A(o-p))		203	
Regenerative brake frequency (times/min) Note1	Without option	No limit Note2	
	DV0PM20058	No limit Note2	
Rated rotational speed (r/min)		1500	
Max. rotational speed (r/min)		2000	
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	212	
	With brake	220	
Recommended moment of inertia ratio of the load and the rotor Note3		10 times or less	
Rotary encoder specifications Note5		20-bit Incremental	17-bit Absolute
	Resolution per single turn	1048576	131072

• **Brake specifications** (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) Note4	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.47.

*1 Motor specifications: □

*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.

Specifications

		AC200 V	
Motor model *1	IP65	-	-
	IP67	MDMEC52G1□	MDMEC52S1□
Applicable driver *2	Model No.	MHD◇TC3B4	
		A5II, A5 series	A5IE, A5E series
	Frame symbol	H-frame	
Power supply capacity (kVA)		22	
Rated output (W)		15000	
Rated torque (N·m)		95.5	
Momentary Max. peak torque (N·m)		224	
Rated current (A(rms))		66.1	
Max. current (A(o-p))		236	
Regenerative brake frequency (times/min) Note1	Without option	No limit Note2	
	DV0PM20058	No limit Note2	
Rated rotational speed (r/min)		1500	
Max. rotational speed (r/min)		2000	
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	302	
	With brake	311	
Recommended moment of inertia ratio of the load and the rotor Note3		10 times or less	
Rotary encoder specifications Note5		20-bit Incremental	17-bit Absolute
	Resolution per single turn	1048576	131072

• **Brake specifications** (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) Note4	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.

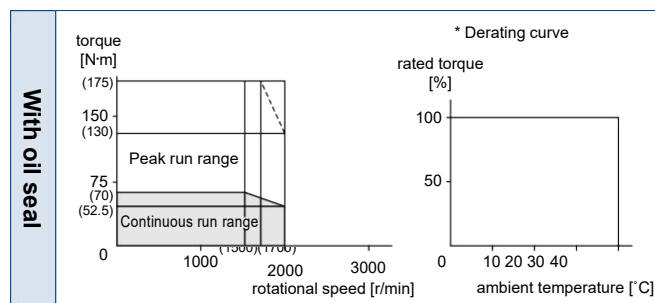
• Dimensions of Driver, refer to P.47.

*1 Motor specifications: □

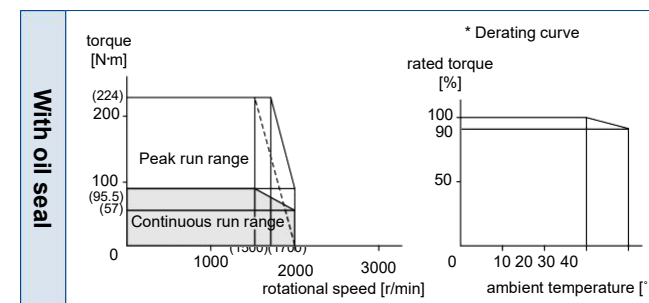
*2 The product that the end of driver model designation has "E" is "Position control type".
Detail of model designation, refer to P.16.

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

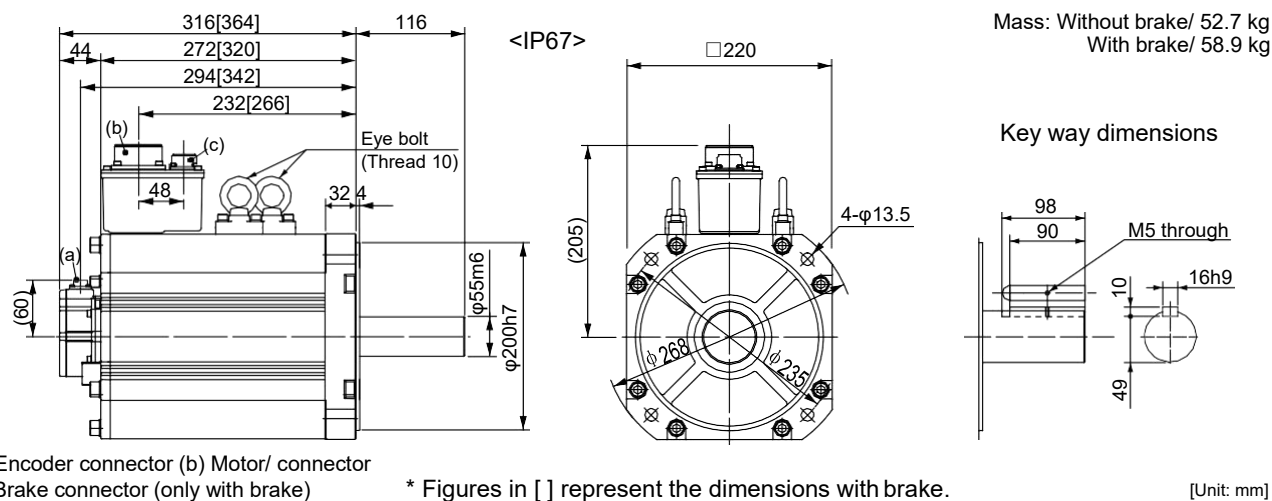
Torque characteristics (at AC200 V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



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



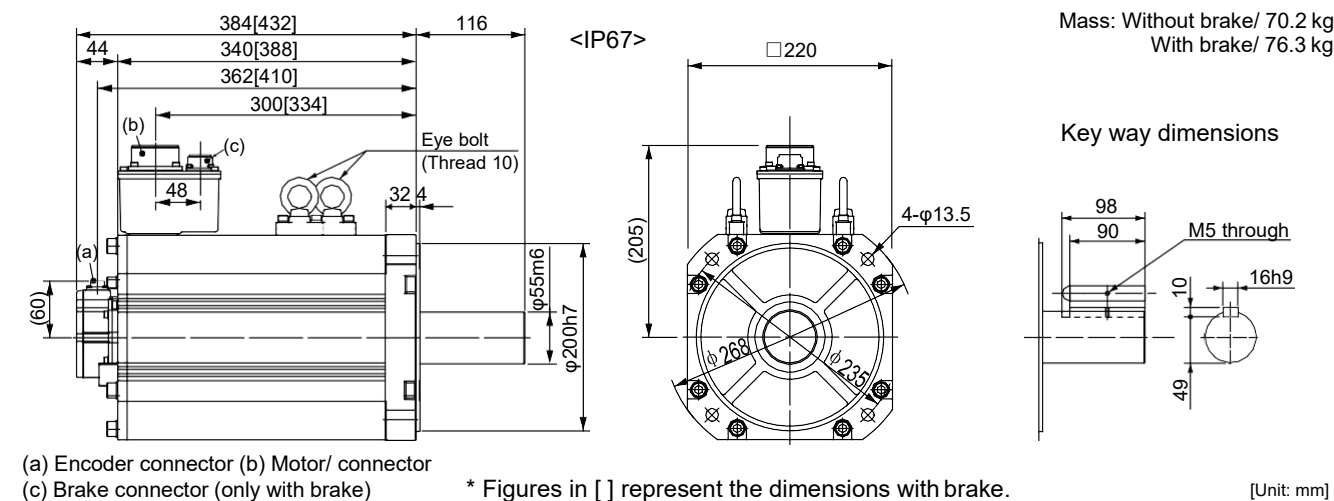
Dimensions



(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.

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.

Specifications

		AC200 V	
Motor model *1	IP65	-	-
	IP67	MFME152G1□	MFME152S1□
Applicable driver *2	Model No.	A5II, A5 series	MDD◇T5540
		A5IE, A5E series	MDD◇T5540E
Frame symbol		D-frame	
Power supply capacity (kVA)	2.3		
Rated output (W)	1500		
Rated torque (N-m)	7.16		
Momentary Max. peak torque (N-m)	21.5		
Rated current (A(rms))	7.5		
Max. current (A(o-p))	32		
Regenerative brake frequency (times/min)Note1	Without option	100	
	DV0P4284	No limit Note2	
Rated rotational speed (r/min)	2000		
Max. rotational speed (r/min)	3000		
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	18.2	
	With brake	23.5	
Recommended moment of inertia ratio of the load and the rotor Note3	10 times or less		
Rotary encoder specifications Note5	20-bit Incremental	17-bit Absolute	
	Resolution per single turn	1048576	131072

• **Brake specifications** (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)	7.8 or more
Engaging time (ms)	80 or less
Releasing time (ms) Note4	35 or less
Exciting current (DC) (A)	0.83±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

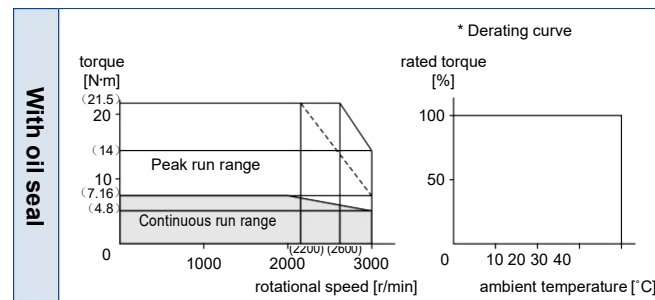
• For details of Note 1 to Note 5, refer to P.182, P.183.
• Dimensions of Driver, refer to P.43.

*1 Motor specifications: □

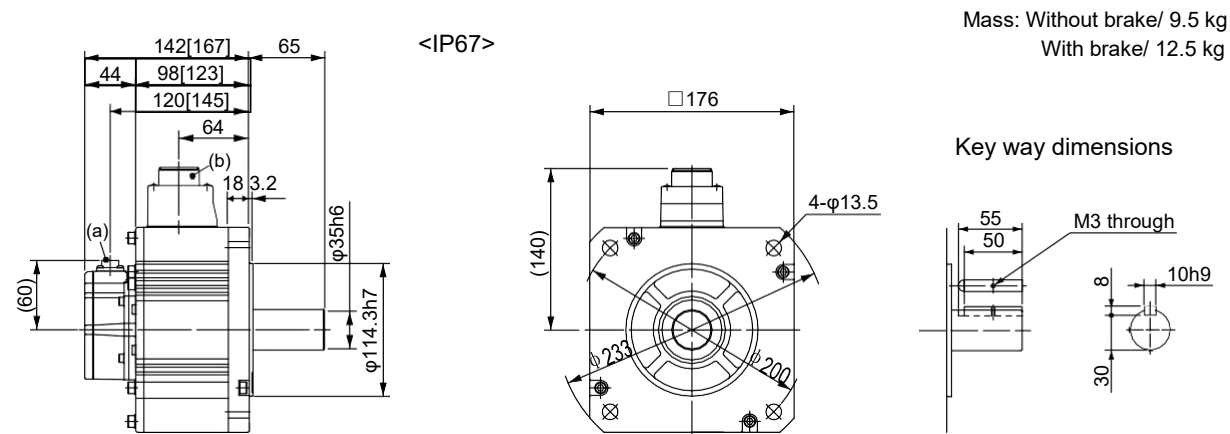
*2 The product that the end of driver model designation has "E" is "Position control type".
Detail of model designation, refer to P.16.

*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.>)



Dimensions



Mass: Without brake/ 9.5 kg
With brake/ 12.5 kg

(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.

Specifications

		AC200 V	
Motor model *1	IP65	-	-
	IP67	MFME252G1□	MFME252S1□
Applicable driver *2	Model No.	A5II, A5 series	MED◇T7364
		A5IE, A5E series	MED◇T7364E
Frame symbol		E-frame	
Power supply capacity (kVA)	3.8		
Rated output (W)	2500		
Rated torque (N-m)	11.9		
Momentary Max. peak torque (N-m)	30.4		
Rated current (A(rms))	13.4		
Max. current (A(o-p))	57		
Regenerative brake frequency (times/min)Note1	Without option	75	
	DV0P4285	No limit Note2	
Rated rotational speed (r/min)	2000		
Max. rotational speed (r/min)	3000		
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	35.8	
	With brake	45.2	
Recommended moment of inertia ratio of the load and the rotor Note3	10 times or less		
Rotary encoder specifications Note5	20-bit Incremental	17-bit Absolute	
	Resolution per single turn	1048576	131072

• **Brake specifications** (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)	21.6 or more
Engaging time (ms)	150 or less
Releasing time (ms) Note4	100 or less
Exciting current (DC) (A)	0.75±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)	1862
	Thrust load A-direction (N)	686
	Thrust load B-direction (N)	686
During operation	Radial load P-direction (N)	784
	Thrust load A, B-direction (N)	294

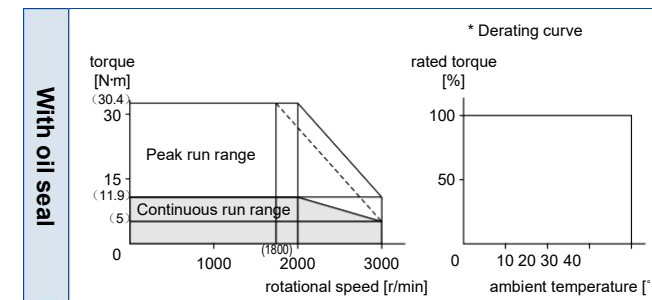
• For details of Note 1 to Note 5, refer to P.182, P.183.
• Dimensions of Driver, refer to P.44.

*1 Motor specifications: □

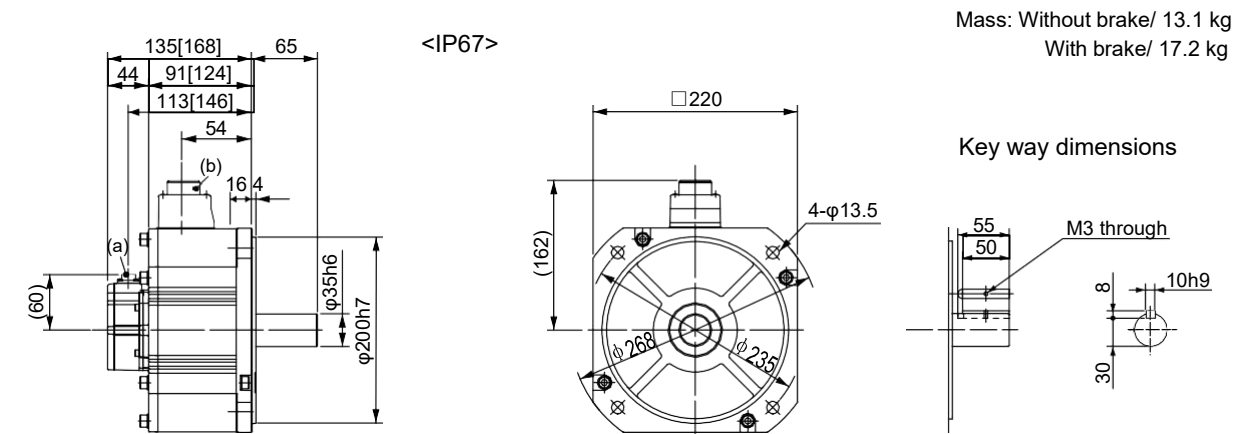
*2 The product that the end of driver model designation has "E" is "Position control type".
Detail of model designation, refer to P.16.

*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.>)



Dimensions



Mass: Without brake/ 13.1 kg
With brake/ 17.2 kg

(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.

Specifications

		AC200 V	
Motor model *1	IP65	-	-
	IP67	MFME452G1□	MFME452S1□
Applicable driver *2	Model No.	A5II, A5 series	MFD◇TB3A2
	A5IE, A5E series	MFD◇TB3A2E	-
Frame symbol		F-frame	
Power supply capacity (kVA)	6.8		
Rated output (W)	4500		
Rated torque (N-m)	21.5		
Momentary Max. peak torque (N-m)	54.9		
Rated current (A(rms))	24.7		
Max. current (A(o-p))	105		
Regenerative brake frequency (times/min)Note1	Without option	67	
	DV0P4285×2	375	
Rated rotational speed (r/min)	2000		
Max. rotational speed (r/min)	3000		
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	63.1	
	With brake	70.9	
Recommended moment of inertia ratio of the load and the rotor Note3	10 times or less		
Rotary encoder specifications Note5	20-bit Incremental	17-bit Absolute	
	Resolution per single turn	1048576	131072

• **Brake specifications** (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)	31.4 or more
Engaging time (ms)	150 or less
Releasing time (ms) Note4	100 or less
Exciting current (DC) (A)	0.75±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)	1862
	Thrust load A-direction (N)	686
	Thrust load B-direction (N)	686
During operation	Radial load P-direction (N)	784
	Thrust load A, B-direction (N)	294

• For details of Note 1 to Note 5, refer to P.182, P.183.

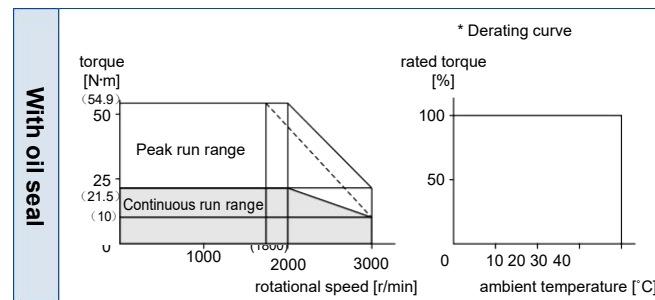
• Dimensions of Driver, refer to P.45.

*1 Motor specifications: □

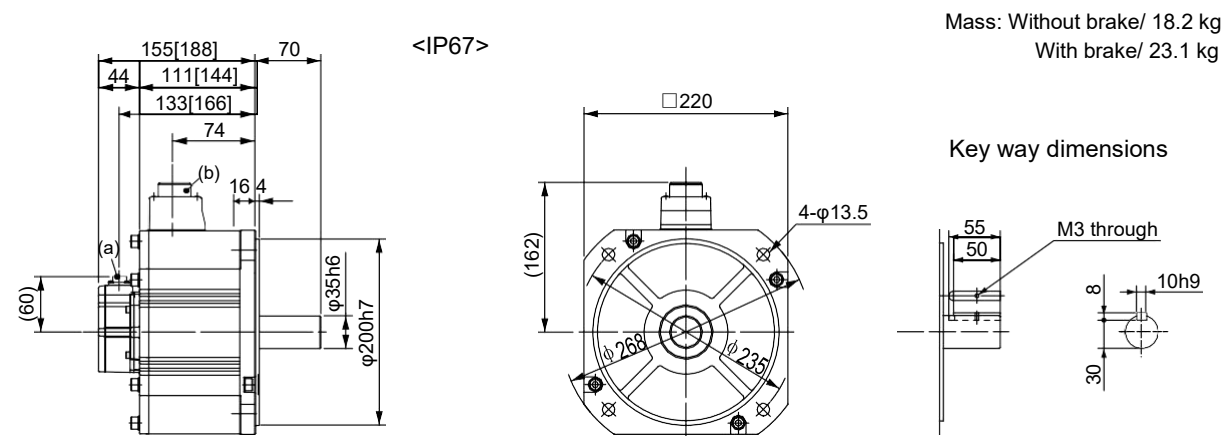
*2 The product that the end of driver model designation has "E" is "Position control type".
Detail of model designation, refer to P.16.

*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.>)



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.

Specifications

		AC200 V	
Motor model *1	IP65	MGME092GC□	MGME092SC□
	IP67	MGME092G1□	MGME092S1□
Applicable driver *2	Model No.	A5II, A5 series	MDD◇T5540
	A5IE, A5E series	MDD◇T5540E	-
Frame symbol		D-frame	
Power supply capacity (kVA)	1.8		
Rated output (W)	900		
Rated torque (N-m)	8.59		
Momentary Max. peak torque (N-m)	19.3		
Rated current (A(rms))	7.6		
Max. current (A(o-p))	24		
Regenerative brake frequency (times/min)Note1	Without option	No limit Note2	
	DV0P4284	No limit Note2	
Rated rotational speed (r/min)	1000		
Max. rotational speed (r/min)	2000		
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	6.70	
	With brake	7.99	
Recommended moment of inertia ratio of the load and the rotor Note3	10 times or less		
Rotary encoder specifications Note5	20-bit Incremental	17-bit Absolute	
	Resolution per single turn	1048576	131072

• **Brake specifications** (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)	13.7 or more
Engaging time (ms)	100 or less
Releasing time (ms) Note4	50 or less
Exciting current (DC) (A)	0.79±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)	686
	Thrust load A, B-direction (N)	196

• For details of Note 1 to Note 5, refer to P.182, P.183.

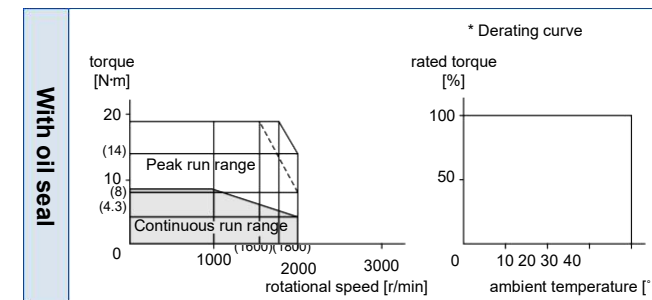
• Dimensions of Driver, refer to P.43.

*1 Motor specifications: □

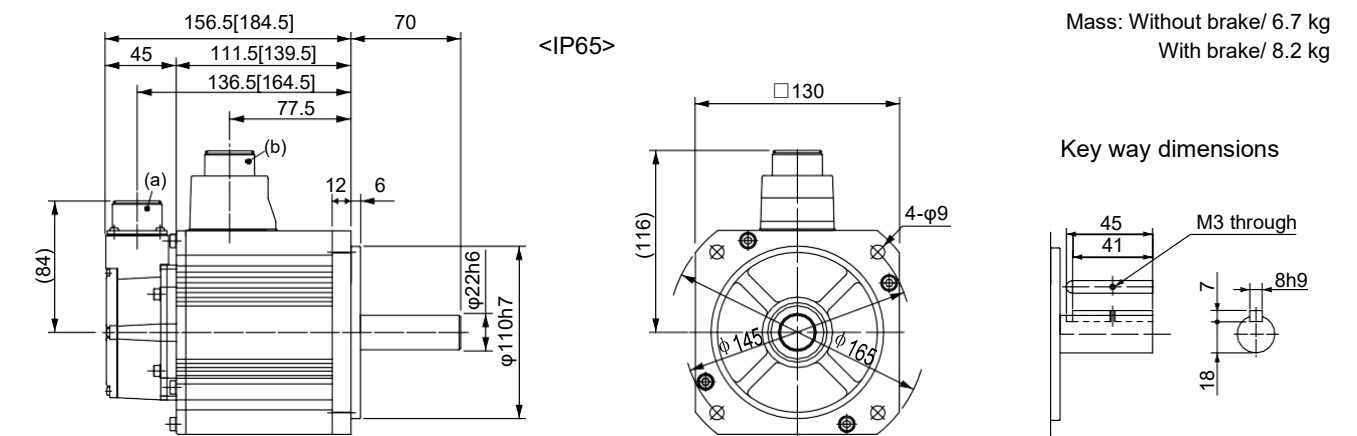
*2 The product that the end of driver model designation has "E" is "Position control type".
Detail of model designation, refer to P.16.

*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.>)



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.

Specifications

		AC200 V	
Motor model *1	IP65	MGME202GC□	MGME202SC□
	IP67	MGME202G1□	MGME202S1□
Applicable driver *2	Model No.	MFD◇TA390	
	A5II, A5 series	MFD◇TA390E	-
	A5IE, A5E series	-	-
Frame symbol		F-frame	
Power supply capacity (kVA)	3.8		
Rated output (W)	2000		
Rated torque (N·m)	19.1		
Momentary Max. peak torque (N·m)	47.7		
Rated current (A(rms))	17.0		
Max. current (A(o-p))	60		
Regenerative brake frequency (times/min) Note1	Without option	No limit Note2	
	DV0P4285×2	No limit Note2	
Rated rotational speed (r/min)	1000		
Max. rotational speed (r/min)	2000		
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	30.3	
	With brake	35.6	
Recommended moment of inertia ratio of the load and the rotor Note3	10 times or less		
Rotary encoder specifications Note5	20-bit Incremental	17-bit Absolute	
	Resolution per single turn	1048576	131072

• **Brake specifications** (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) Note4	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)	1176
	Thrust load A, B-direction (N)	490

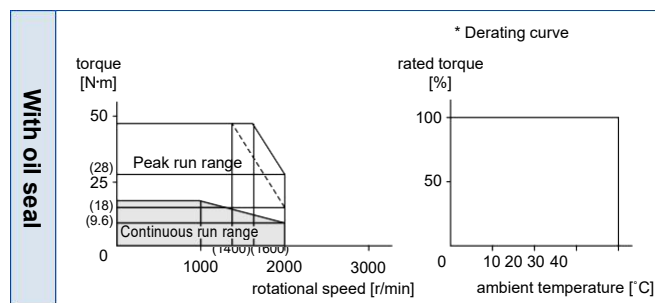
• For details of Note 1 to Note 5, refer to P.182, P.183.
• Dimensions of Driver, refer to P.45.

*1 Motor specifications: □

*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.

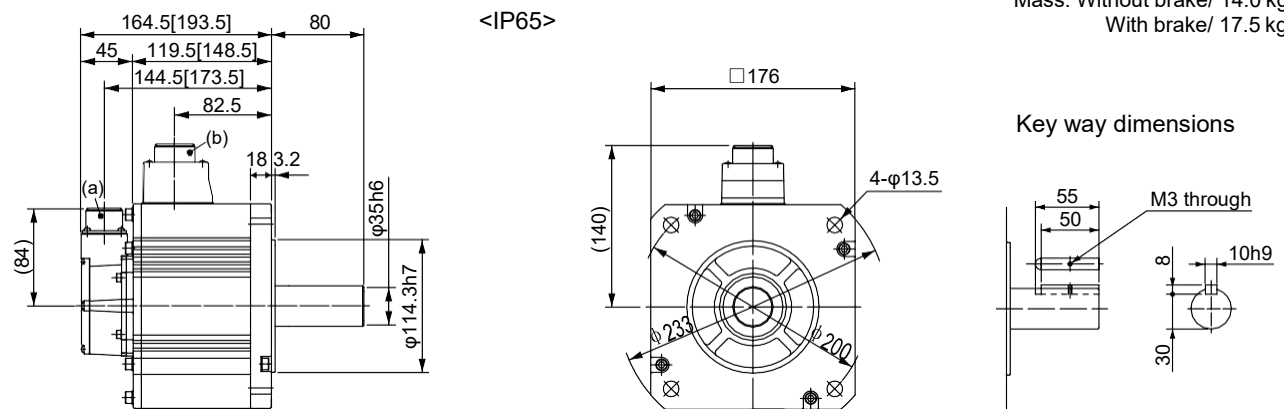
Torque characteristics (at AC200 V of power voltage <Dotted line represents the torque at 10 % less supply voltage.>)



Dimensions

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

Mass: Without brake/ 14.0 kg
With brake/ 17.5 kg



(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.

Specifications

		AC200 V	
Motor model *1	IP65	MGME302GC□	MGME302SC□
	IP67	MGME302G1□	MGME302S1□
Applicable driver *2	Model No.	MFD◇TB3A2	
	A5II, A5 series	MFD◇TB3A2E	-
	A5IE, A5E series	-	-
Frame symbol		F-frame	
Power supply capacity (kVA)	4.5		
Rated output (W)	3000		
Rated torque (N·m)	28.7		
Momentary Max. peak torque (N·m)	71.7		
Rated current (A(rms))	22.6		
Max. current (A(o-p))	80		
Regenerative brake frequency (times/min) Note1	Without option	No limit Note2	
	DV0P4285×2	No limit Note2	
Rated rotational speed (r/min)	1000		
Max. rotational speed (r/min)	2000		
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	48.4	
	With brake	53.7	
Recommended moment of inertia ratio of the load and the rotor Note3	10 times or less		
Rotary encoder specifications Note5	20-bit Incremental	17-bit Absolute	
	Resolution per single turn	1048576	131072

• **Brake specifications** (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)	58.8 or more
Engaging time (ms)	150 or less
Releasing time (ms) Note4	50 or less
Exciting current (DC) (A)	1.4±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)	2058
	Thrust load A-direction (N)	980
	Thrust load B-direction (N)	1176
During operation	Radial load P-direction (N)	1470
	Thrust load A, B-direction (N)	490

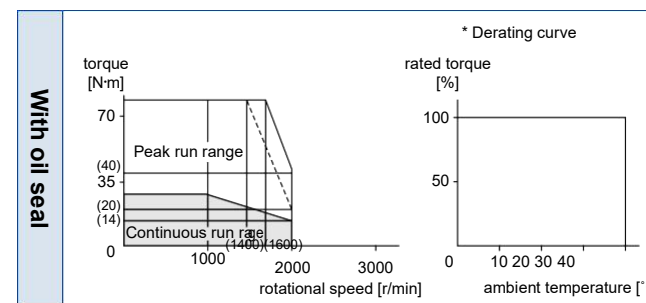
• For details of Note 1 to Note 5, refer to P.182, P.183.
• Dimensions of Driver, refer to P.45.

*1 Motor specifications: □

*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.

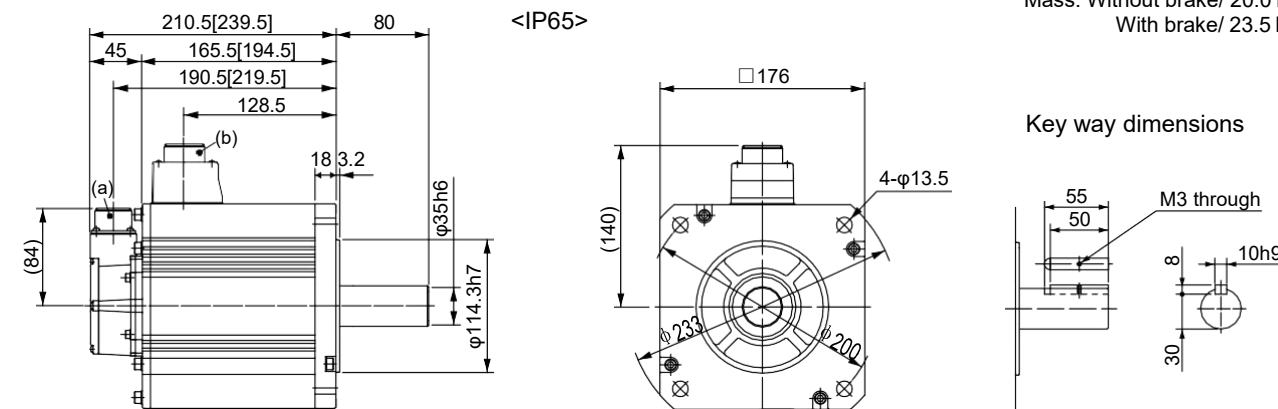
Torque characteristics (at AC200 V of power voltage <Dotted line represents the torque at 10 % less supply voltage.>)



Dimensions

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

Mass: Without brake/ 20.0 kg
With brake/ 23.5 kg



(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.

Specifications

		AC200 V	
Motor model *1	IP65	-	-
	IP67	MGME452G1□	MGME452S1□
Applicable driver *2	Model No.	MFD◇TB3A2	
		A5II, A5 series	MFD◇TB3A2E
		A5IE, A5E series	-
	Frame symbol	F-frame	
Power supply capacity (kVA)		7.5	
Rated output (W)		4500	
Rated torque (N·m)		43.0	
Momentary Max. peak torque (N·m)		107	
Rated current (A(rms))		29.7	
Max. current (A(o-p))		110	
Regenerative brake frequency (times/min) Note)1	Without option	No limit Note)2	
	DV0P4285×2	No limit Note)2	
Rated rotational speed (r/min)		1000	
Max. rotational speed (r/min)		2000	
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	79.1	
	With brake	84.4	
Recommended moment of inertia ratio of the load and the rotor Note)3		10 times or less	
Rotary encoder specifications Note)5		20-bit Incremental	17-bit Absolute
	Resolution per single turn	1048576	131072

• **Brake specifications** (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)	58.8 or more
Engaging time (ms)	150 or less
Releasing time (ms) Note)4	50 or less
Exciting current (DC) (A)	1.4±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)	2058
	Thrust load A-direction (N)	980
	Thrust load B-direction (N)	1176
During operation	Radial load P-direction (N)	1470
	Thrust load A, B-direction (N)	490

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

*1 Motor specifications: □

*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.

Specifications

		AC200 V	
Motor model *1	IP65	-	-
	IP67	MGME602G1□	MGME602S1□
Applicable driver *2	Model No.	MGD◇TC3B4	
		A5II, A5 series	-
		A5IE, A5E series	-
	Frame symbol	G-frame	
Power supply capacity (kVA)		9.0	
Rated output (W)		6000	
Rated torque (N·m)		57.3	
Momentary Max. peak torque (N·m)		143	
Rated current (A(rms))		38.8	
Max. current (A(o-p))		149	
Regenerative brake frequency (times/min) Note)1	Without option	No limit Note)2	
	DV0P4285×4	No limit Note)2	
Rated rotational speed (r/min)		1000	
Max. rotational speed (r/min)		2000	
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	101	
	With brake	107	
Recommended moment of inertia ratio of the load and the rotor Note)3		10 times or less	
Rotary encoder specifications Note)5		20-bit Incremental	17-bit Absolute
	Resolution per single turn	1048576	131072

• **Brake specifications** (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)	58.8 or more
Engaging time (ms)	150 or less
Releasing time (ms) Note)4	50 or less
Exciting current (DC) (A)	1.4±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)	2058
	Thrust load A-direction (N)	980
	Thrust load B-direction (N)	1176
During operation	Radial load P-direction (N)	1764
	Thrust load A, B-direction (N)	588

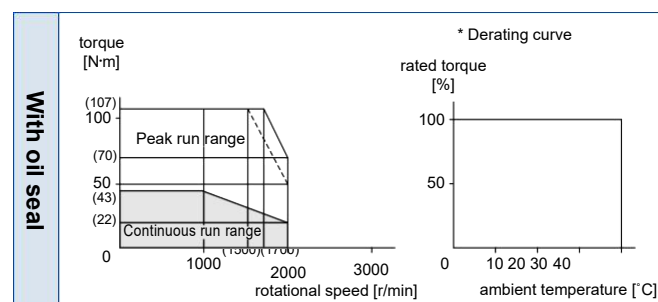
• For details of Note 1 to Note 5, refer to P.182, P.183.
• Dimensions of Driver, refer to P.46.

*1 Motor specifications: □

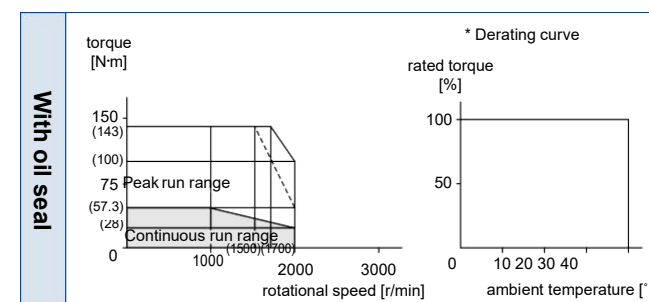
*2 The product that the end of driver model designation has "E" is "Position control type".
Detail of model designation, refer to P.16.

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

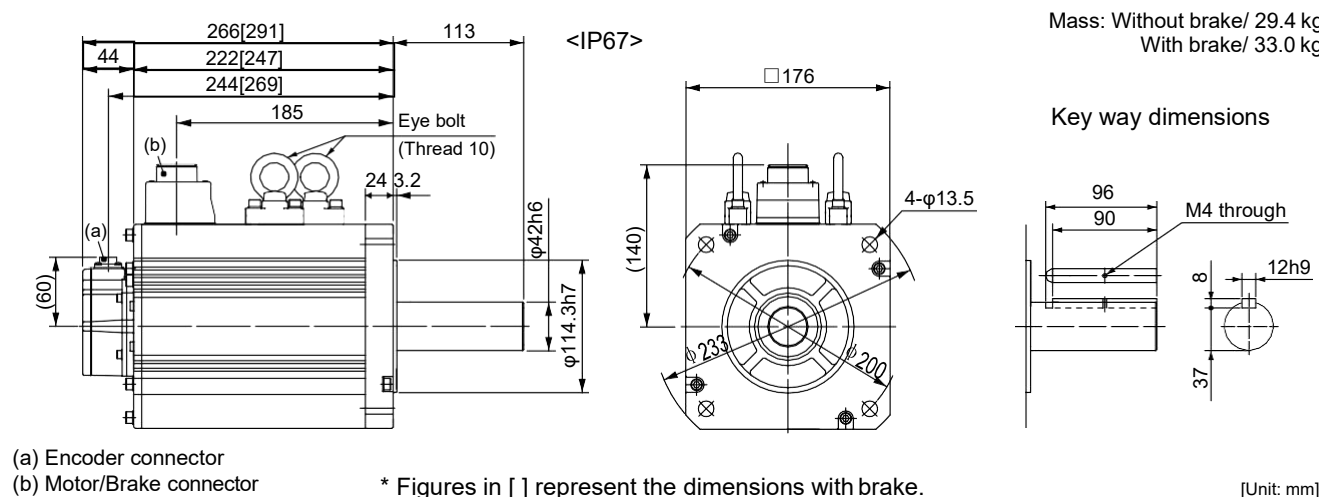
Torque characteristics (at AC200 V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



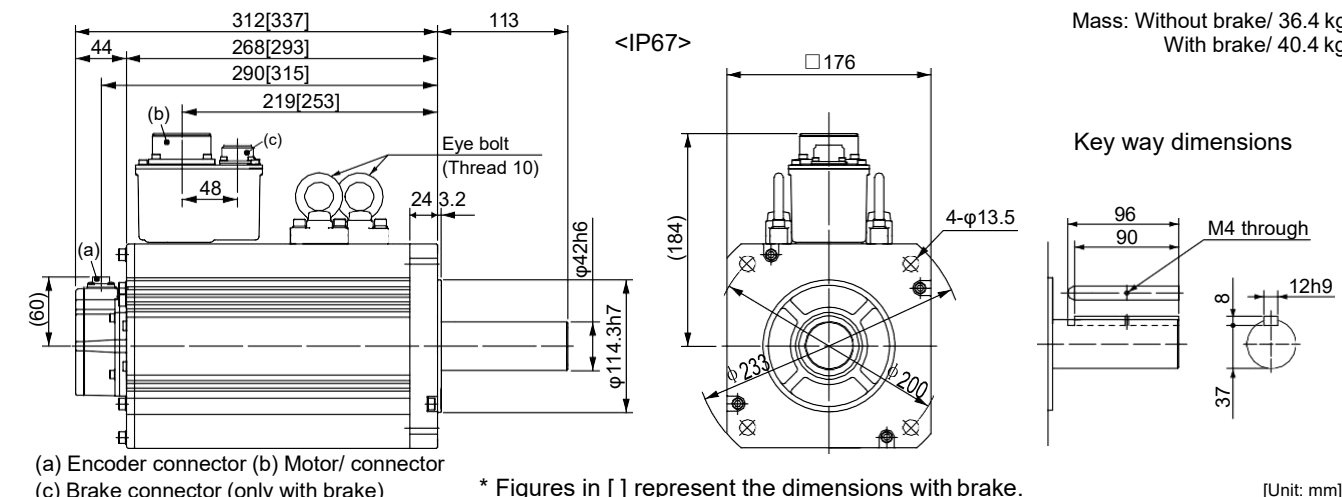
Torque characteristics (at AC200 V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions



Dimensions



<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.

<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.

Specifications

		AC200 V	
Motor model *1	IP65	MHME102GC□	MHME102SC□
	IP67	MHME102G1□	MHME102S1□
Applicable driver *2	Model No.	MDD◇T3530	
	A5II, A5 series	MDD◇T3530E	-
	A5IE, A5E series	-	-
Frame symbol		D-frame	
Power supply capacity (kVA)		1.8	
Rated output (W)		1000	
Rated torque (N·m)		4.77	
Momentary Max. peak torque (N·m)		14.3	
Rated current (A(rms))		5.7	
Max. current (A(o-p))		24	
Regenerative brake frequency (times/min) Note1	Without option	83	
	DV0P4284	No limit Note2	
Rated rotational speed (r/min)		2000	
Max. rotational speed (r/min)		3000	
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	24.7	
	With brake	26.0	
Recommended moment of inertia ratio of the load and the rotor Note3		5 times or less	
	Rotary encoder specifications Note5	20-bit Incremental	17-bit Absolute
Resolution per single turn		1048576	131072

• **Brake specifications** (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)	4.9 or more
Engaging time (ms)	80 or less
Releasing time (ms) Note4	70 or less
Exciting current (DC) (A)	0.59±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

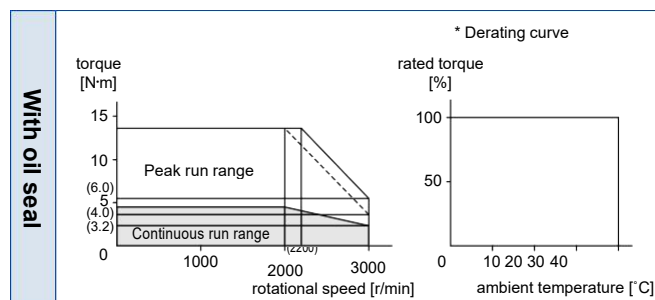
• For details of Note 1 to Note 5, refer to P.182, P.183.
• Dimensions of Driver, refer to P.43.

*1 Motor specifications: □

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

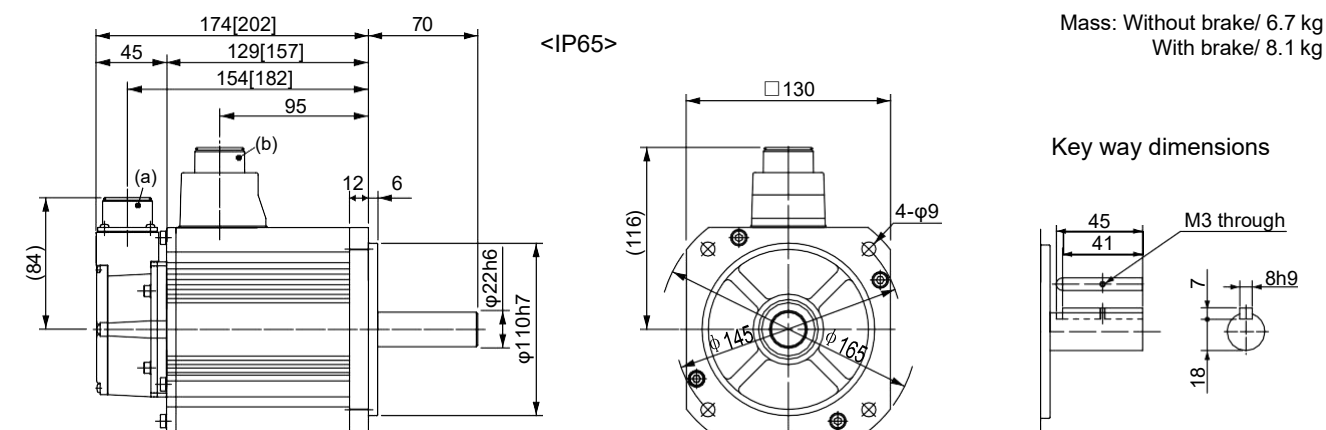
*3 ◇ in number of applicable driver represents the series. For more information about the part number, please refer to P.16.

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



Dimensions

(For IP67 motor, refer to P.140.)



(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.

Specifications

		AC200 V	
Motor model *1	IP65	MHME152GC□	MHME152SC□
	IP67	MHME152G1□	MHME152S1□
Applicable driver *2	Model No.	MDD◇T5540	
	A5II, A5 series	MDD◇T5540E	-
	A5IE, A5E series	-	-
Frame symbol		D-frame	
Power supply capacity (kVA)		2.3	
Rated output (W)		1500	
Rated torque (N·m)		7.16	
Momentary Max. peak torque (N·m)		21.5	
Rated current (A(rms))		9.4	
Max. current (A(o-p))		40	
Regenerative brake frequency (times/min) Note1	Without option	22	
	DV0P4284	130	
Rated rotational speed (r/min)		2000	
Max. rotational speed (r/min)		3000	
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	37.1	
	With brake	38.4	
Recommended moment of inertia ratio of the load and the rotor Note3		5 times or less	
	Rotary encoder specifications Note5	20-bit Incremental	17-bit Absolute
Resolution per single turn		1048576	131072

• **Brake specifications** (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)	13.7 or more
Engaging time (ms)	100 or less
Releasing time (ms) Note4	50 or less
Exciting current (DC) (A)	0.79±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

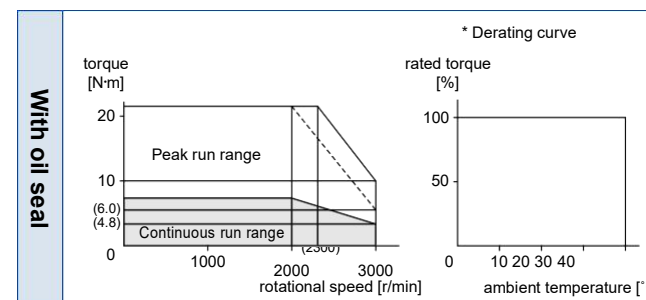
• For details of Note 1 to Note 5, refer to P.182, P.183.
• Dimensions of Driver, refer to P.43.

*1 Motor specifications: □

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

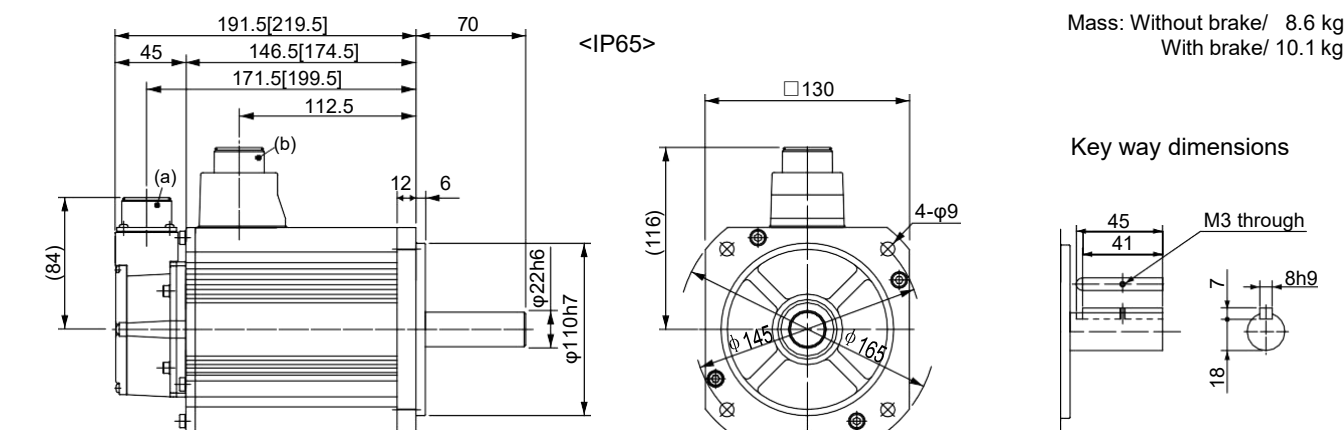
*3 ◇ in number of applicable driver represents the series. For more information about the part number, please refer to P.16.

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



Dimensions

(For IP67 motor, refer to P.140.)



(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.

Specifications

		AC200 V	
Motor model *1	IP65	MHME202GC□	MHME202SC□
	IP67	MHME202G1□	MHME202S1□
Applicable driver *2	Model No.	MED◇T7364	
	A5II, A5 series	MED◇T7364E	
	A5IE, A5E series	-	
Frame symbol		E-frame	
Power supply capacity (kVA)	3.3		
Rated output (W)	2000		
Rated torque (N·m)	9.55		
Momentary Max. peak torque (N·m)	28.6		
Rated current (A(rms))	11.1		
Max. current (A(o-p))	47		
Regenerative brake frequency (times/min)Note1	Without option	45	
	DV0P4285	142	
Rated rotational speed (r/min)	2000		
Max. rotational speed (r/min)	3000		
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	57.8	
	With brake	59.6	
Recommended moment of inertia ratio of the load and the rotor Note3	5 times or less		
	Rotary encoder specifications Note5	20-bit Incremental	17-bit Absolute
Resolution per single turn	1048576	131072	

• **Brake specifications** (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) Note4	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

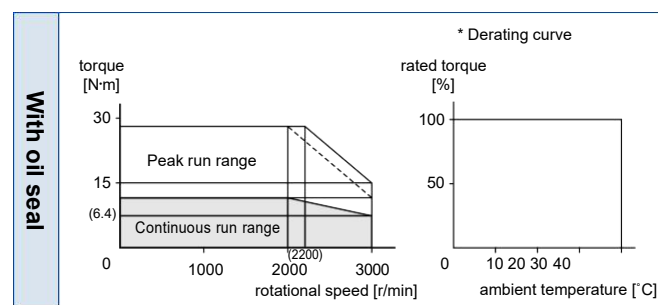
• For details of Note 1 to Note 5, refer to P.182, P.183.
• Dimensions of Driver, refer to P.44.

*1 Motor specifications: □

*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.

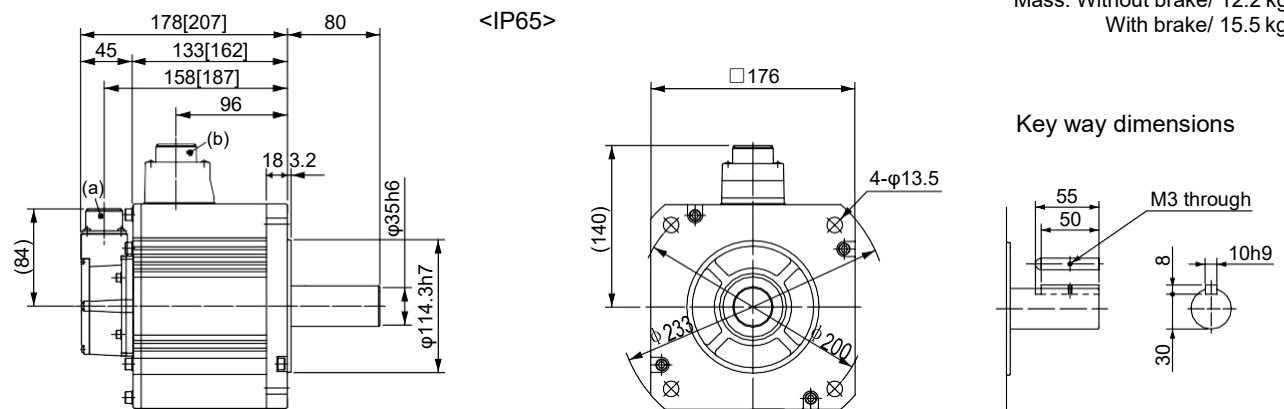
Torque characteristics (at AC200 V of power voltage <Dotted line represents the torque at 10 % less supply voltage.>)



Dimensions

(For IP67 motor, refer to P.140.)

Mass: Without brake/ 12.2 kg
With brake/ 15.5 kg



(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.

Specifications

		AC200 V	
Motor model *1	IP65	MHME302GC□	MHME302SC□
	IP67	MHME302G1□	MHME302S1□
Applicable driver *2	Model No.	MFD◇TA390	
	A5II, A5 series	MFD◇TA390E	
	A5IE, A5E series	-	
Frame symbol		F-frame	
Power supply capacity (kVA)	4.5		
Rated output (W)	3000		
Rated torque (N·m)	14.3		
Momentary Max. peak torque (N·m)	43.0		
Rated current (A(rms))	16.0		
Max. current (A(o-p))	68		
Regenerative brake frequency (times/min)Note1	Without option	19	
	DV0P4285×2	142	
Rated rotational speed (r/min)	2000		
Max. rotational speed (r/min)	3000		
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	90.5	
	With brake	92.1	
Recommended moment of inertia ratio of the load and the rotor Note3	5 times or less		
	Rotary encoder specifications Note5	20-bit Incremental	17-bit Absolute
Resolution per single turn	1048576	131072	

• **Brake specifications** (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) Note4	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

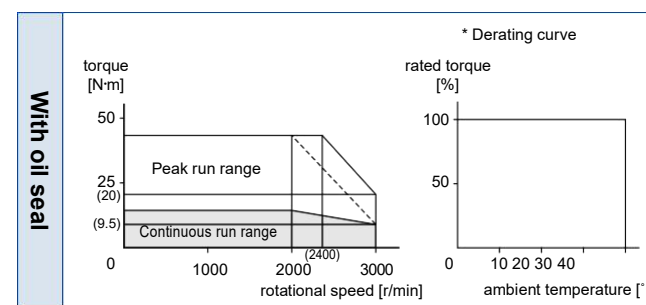
• For details of Note 1 to Note 5, refer to P.182, P.183.
• Dimensions of Driver, refer to P.45.

*1 Motor specifications: □

*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.

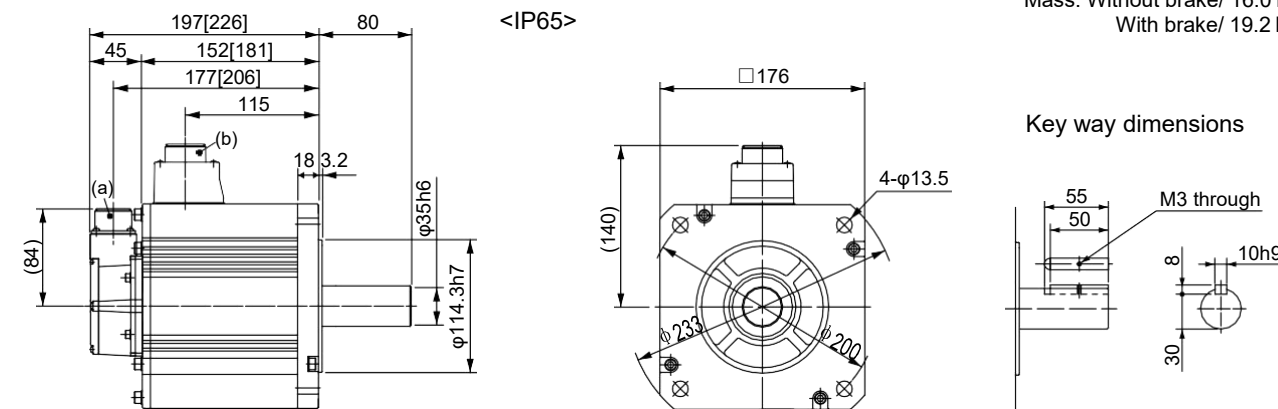
Torque characteristics (at AC200 V of power voltage <Dotted line represents the torque at 10 % less supply voltage.>)



Dimensions

(For IP67 motor, refer to P.140.)

Mass: Without brake/ 16.0 kg
With brake/ 19.2 kg



(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.

Specifications

		AC200 V	
Motor model *1	IP65	MHME402GC□	MHME402SC□
	IP67	MHME402G1□	MHME402S1□
Applicable driver *2	Model No.	MFD◇TB3A2	
	A5II, A5 series	MFD◇TB3A2E	-
	A5IE, A5E series	-	-
Frame symbol		F-frame	
Power supply capacity (kVA)		6.0	
Rated output (W)		4000	
Rated torque (N·m)		19.1	
Momentary Max. peak torque (N·m)		57.3	
Rated current (A(rms))		21.0	
Max. current (A(o-p))		89	
Regenerative brake frequency (times/min) Note)1	Without option	17	
	DV0P4285×2	125	
Rated rotational speed (r/min)		2000	
Max. rotational speed (r/min)		3000	
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	112	
	With brake	114	
Recommended moment of inertia ratio of the load and the rotor Note)3		5 times or less	
	Rotary encoder specifications Note)5	20-bit Incremental	17-bit Absolute
Resolution per single turn		1048576	131072

• **Brake specifications** (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.

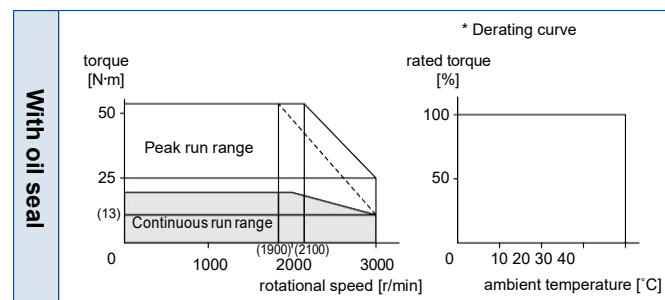
• Dimensions of Driver, refer to P.45.

*1 Motor specifications: □

*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.

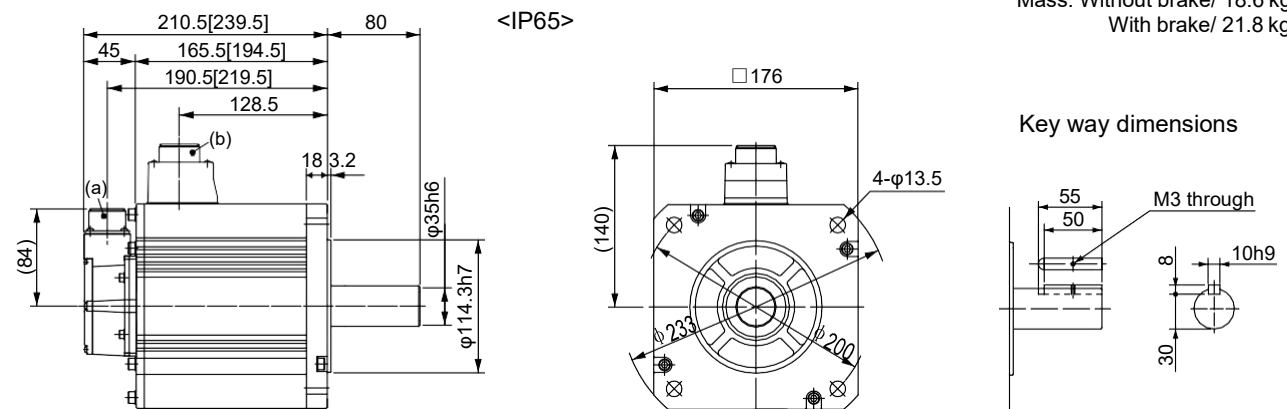
Torque characteristics (at AC200 V of power voltage <Dotted line represents the torque at 10 % less supply voltage.>)



Dimensions

(For IP67 motor, refer to P.140.)

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



(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.

Specifications

		AC200 V	
Motor model *1	IP65	MHME502GC□	MHME502SC□
	IP67	MHME502G1□	MHME502S1□
Applicable driver *2	Model No.	MFD◇TB3A2	
	A5II, A5 series	MFD◇TB3A2E	-
	A5IE, A5E series	-	-
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))		25.9	
Max. current (A(o-p))		110	
Regenerative brake frequency (times/min) Note)1	Without option	10	
	DV0P4285×2	76	
Rated rotational speed (r/min)		2000	
Max. rotational speed (r/min)		3000	
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	162	
	With brake	164	
Recommended moment of inertia ratio of the load and the rotor Note)3		5 times or less	
	Rotary encoder specifications Note)5	20-bit Incremental	17-bit Absolute
Resolution per single turn		1048576	131072

• **Brake specifications** (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.

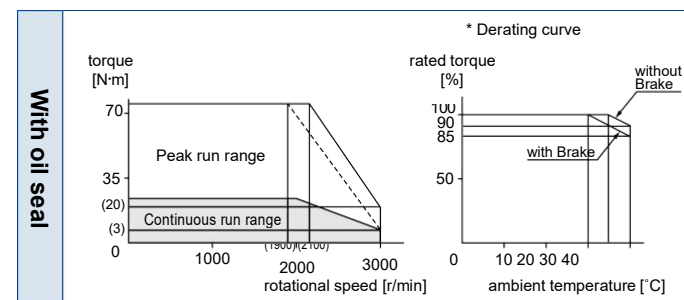
• Dimensions of Driver, refer to P.45.

*1 Motor specifications: □

*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.

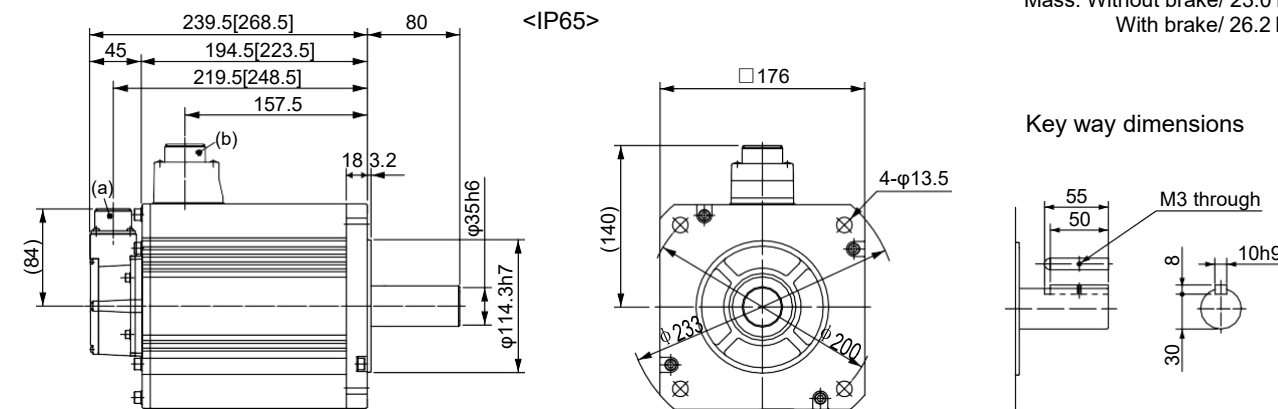
Torque characteristics (at AC200 V of power voltage <Dotted line represents the torque at 10 % less supply voltage.>)



Dimensions

(For IP67 motor, refer to P.140.)

Mass: Without brake/ 23.0 kg
With brake/ 26.2 kg



(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.

Specifications

		AC200 V	
Motor model *1	IP65	-	-
	IP67	MHME752G1□	MHME752S1□
Applicable driver *2	Model No.	MGD◇TC3B4	
	Model No.	A5II, A5 series	A5IE, A5E series
Frame symbol		G-frame	
Power supply capacity (kVA)	11		
Rated output (W)	7500		
Rated torque (N·m)	47.8		
Momentary Max. peak torque (N·m)	119		
Rated current (A(rms))	44.0		
Max. current (A(o-p))	165		
Regenerative brake frequency (times/min) Note1	Without option	No limit Note2	
	DV0P4285×4	No limit Note2	
Rated rotational speed (r/min)	1500		
Max. rotational speed (r/min)	3000		
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	273	
	With brake	279	
Recommended moment of inertia ratio of the load and the rotor Note3	5 times or less		
Rotary encoder specifications Note5	20-bit Incremental	17-bit Absolute	
	Resolution per single turn	1048576	131072

• **Brake specifications** (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)	58.8 or more
Engaging time (ms)	150 or less
Releasing time (ms) Note4	50 or less
Exciting current (DC) (A)	1.41±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)	2058
	Thrust load A-direction (N)	980
	Thrust load B-direction (N)	1176
During operation	Radial load P-direction (N)	1176
	Thrust load A, B-direction (N)	490

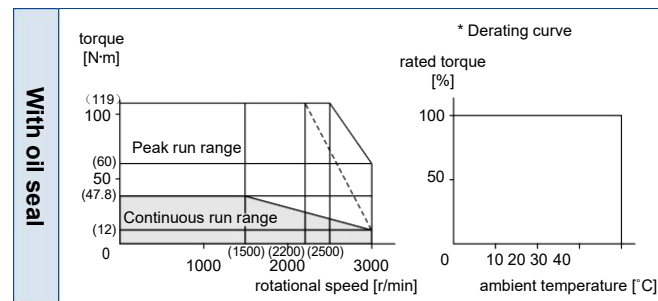
• For details of Note 1 to Note 5, refer to P.182, P.183.
• Dimensions of Driver, refer to P.46.

*1 Motor specifications: □

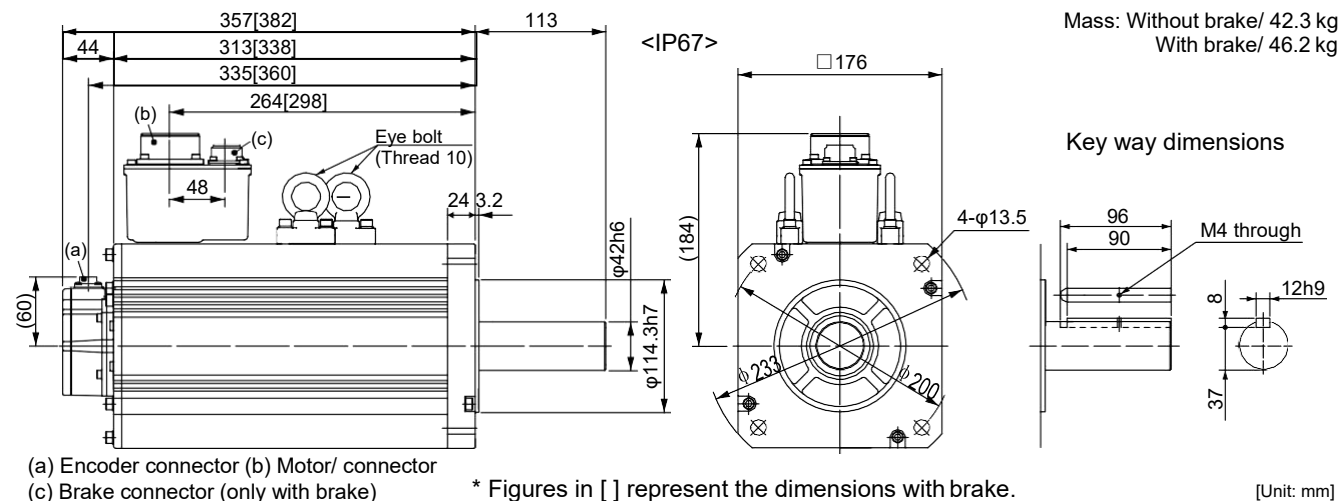
*2 The product that the end of driver model designation has "E" is "Position control type".
Detail of model designation, refer to P.16.

*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.>)



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.

Specifications

		AC400 V	
Motor model *1	IP65	MSME084GC□	MSME084SC□
	IP67	MSME084G1□	MSME084S1□
Applicable driver *2	Model No.	MDD◇T2412	
	Model No.	A5II, A5 series	A5IE, A5E series
Frame symbol		D-frame	
Power supply capacity (kVA)	1.6		
Rated output (W)	750		
Rated torque (N·m)	2.39		
Momentary Max. peak torque (N·m)	7.16		
Rated current (A(rms))	2.4		
Max. current (A(o-p))	10		
Regenerative brake frequency (times/min) Note1	Without option	No limit Note2	
	DV0PM20048	No limit Note2	
Rated rotational speed (r/min)	3000		
Max. rotational speed (r/min)	5000		
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	1.61	
	With brake	1.93	
Recommended moment of inertia ratio of the load and the rotor Note3	15 times or less		
Rotary encoder specifications Note5	20-bit Incremental	17-bit Absolute	
	Resolution per single turn	1048576	131072

• **Brake specifications** (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)	2.5 or more
Engaging time (ms)	50 or less
Releasing time (ms) Note4	15 or less
Exciting current (DC) (A)	0.70±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

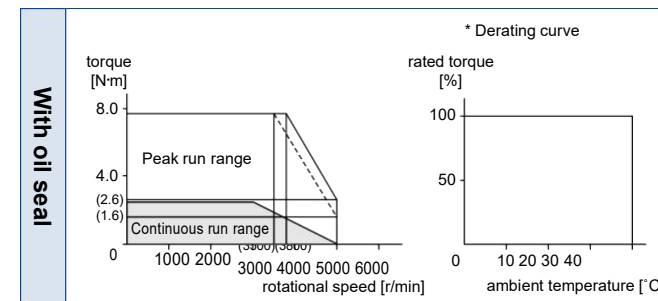
• For details of Note 1 to Note 5, refer to P.182, P.183.
• Dimensions of Driver, refer to P.44.

*1 Motor specifications: □

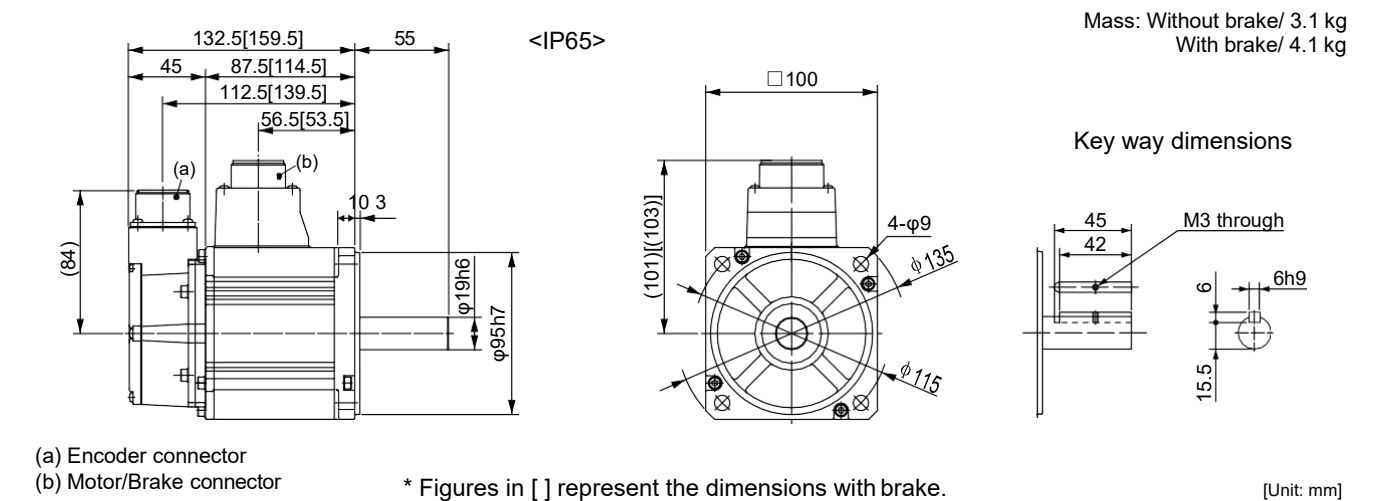
*2 The product that the end of driver model designation has "E" is "Position control type".
Detail of model designation, refer to P.16.

*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.>)



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.

Specifications

		AC400 V	
Motor model *1	IP65	MSME104GC□	MSME104SC□
	IP67	MSME104G1□	MSME104S1□
Applicable driver *2	Model No.	MDD◇T3420	
		A5II, A5 series	
		A5IE, A5E series	
	Frame symbol	D-frame	
Power supply capacity (kVA)		1.8	
Rated output (W)		1000	
Rated torque (N·m)		3.18	
Momentary Max. peak torque (N·m)		9.55	
Rated current (A(rms))		3.3	
Max. current (A(o-p))		14	
Regenerative brake frequency (times/min) Note1	Without option	No limit Note2	
	DV0PM20048	No limit Note2	
Rated rotational speed (r/min)		3000	
Max. rotational speed (r/min)		5000	
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	2.03	
	With brake	2.35	
Recommended moment of inertia ratio of the load and the rotor Note3		15 times or less	
Rotary encoder specifications Note5		20-bit Incremental	17-bit Absolute
	Resolution per single turn	1048576	131072

• **Brake specifications** (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)	7.8 or more
Engaging time (ms)	50 or less
Releasing time (ms) Note4	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

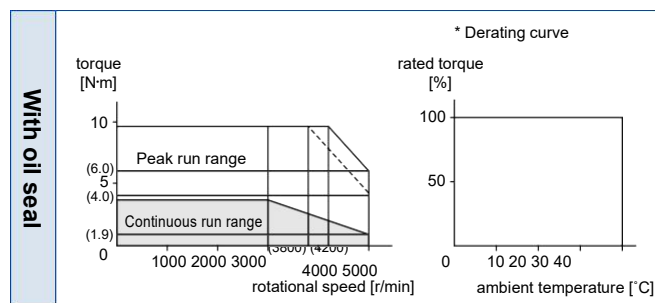
• For details of Note 1 to Note 5, refer to P.182, P.183.
• Dimensions of Driver, refer to P.44.

*1 Motor specifications: □

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

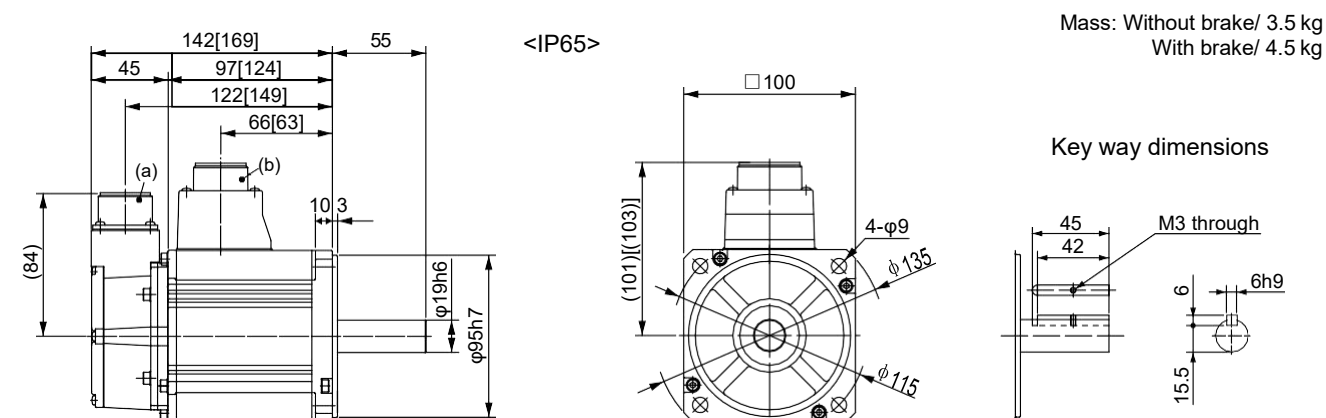
*3 ◇ in number of applicable driver represents the series. For more information about the part number, please refer to P.16.

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



Dimensions

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



(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.

Specifications

		AC400 V	
Motor model *1	IP65	MSME154GC□	MSME154SC□
	IP67	MSME154G1□	MSME154S1□
Applicable driver *2	Model No.	MDD◇T3420	
		A5II, A5 series	
		A5IE, A5E series	
	Frame symbol	D-frame	
Power supply capacity (kVA)		2.3	
Rated output (W)		1500	
Rated torque (N·m)		4.77	
Momentary Max. peak torque (N·m)		14.3	
Rated current (A(rms))		4.2	
Max. current (A(o-p))		18	
Regenerative brake frequency (times/min) Note1	Without option	No limit Note2	
	DV0PM20048	No limit Note2	
Rated rotational speed (r/min)		3000	
Max. rotational speed (r/min)		5000	
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	2.84	
	With brake	3.17	
Recommended moment of inertia ratio of the load and the rotor Note3		15 times or less	
Rotary encoder specifications Note5		20-bit Incremental	17-bit Absolute
	Resolution per single turn	1048576	131072

• **Brake specifications** (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)	7.8 or more
Engaging time (ms)	50 or less
Releasing time (ms) Note4	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

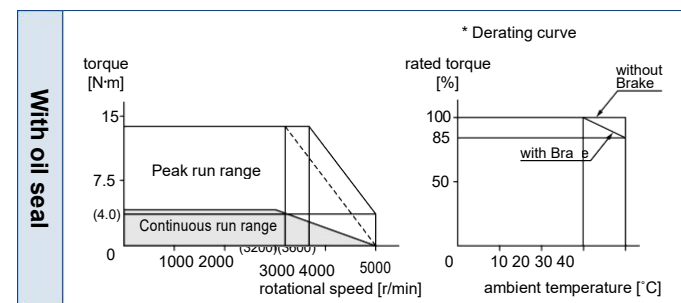
• For details of Note 1 to Note 5, refer to P.182, P.183.
• Dimensions of Driver, refer to P.44.

*1 Motor specifications: □

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

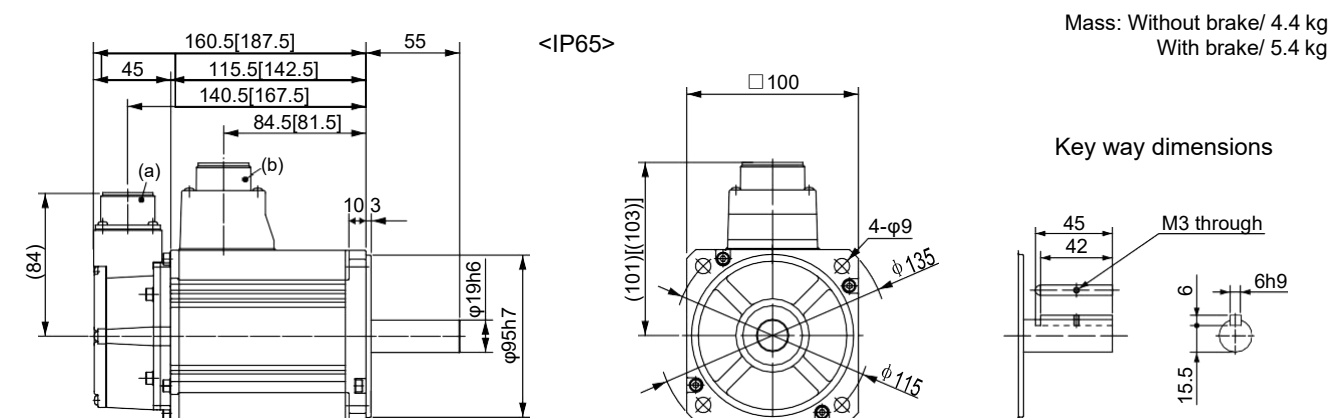
*3 ◇ in number of applicable driver represents the series. For more information about the part number, please refer to P.16.

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



Dimensions

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



(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.

Specifications

		AC400 V	
Motor model *1	IP65	MSME204GC□	MSME204SC□
	IP67	MSME204G1□	MSME204S1□
Applicable driver *2	Model No.	MED◇T4430	
	A5II, A5 series		
	A5IIE, A5E series	MED◇T4430E	-
Frame symbol		E-frame	
Power supply capacity (kVA)	3.3		
Rated output (W)	2000		
Rated torque (N·m)	6.37		
Momentary Max. peak torque (N·m)	19.1		
Rated current (A(rms))	5.7		
Max. current (A(o-p))	24		
Regenerative brake frequency (times/min) Note1	Without option	No limit Note2	
	DV0PM20049	No limit Note2	
Rated rotational speed (r/min)	3000		
Max. rotational speed (r/min)	5000		
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	3.68	
	With brake	4.01	
Recommended moment of inertia ratio of the load and the rotor Note3	15 times or less		
Rotary encoder specifications Note5	20-bit Incremental	17-bit Absolute	
	Resolution per single turn	1048576	131072

• **Brake specifications** (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)	7.8 or more
Engaging time (ms)	50 or less
Releasing time (ms) Note4	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

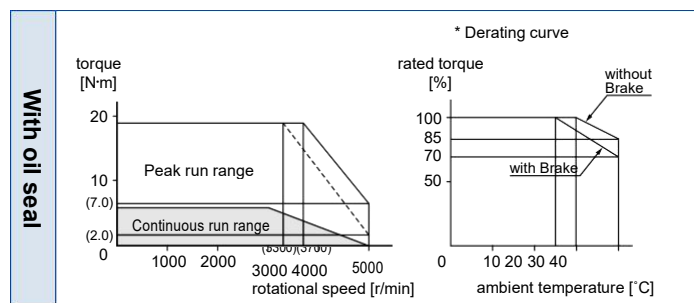
• For details of Note 1 to Note 5, refer to P.182, P.183.
• Dimensions of Driver, refer to P.45.

*1 Motor specifications: □

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

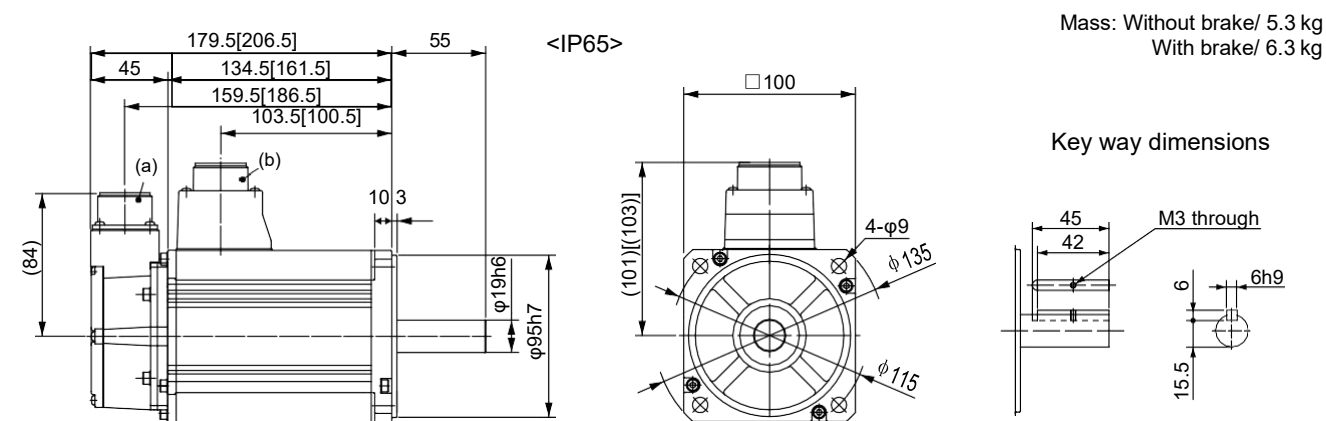
*3 ◇ in number of applicable driver represents the series. For more information about the part number, please refer to P.16.

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



Dimensions

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



(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.

Specifications

		AC400 V	
Motor model *1	IP65	MSME304GC□	MSME304SC□
	IP67	MSME304G1□	MSME304S1□
Applicable driver *2	Model No.	MFD◇T5440	
	A5II, A5 series		
	A5IIE, 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) Note1	Without option	No limit Note2	
	DV0PM20049×2	No limit Note2	
Rated rotational speed (r/min)	3000		
Max. rotational speed (r/min)	5000		
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	6.50	
	With brake	6.85	
Recommended moment of inertia ratio of the load and the rotor Note3	15 times or less		
Rotary encoder specifications Note5	20-bit Incremental	17-bit Absolute	
	Resolution per single turn	1048576	131072

• **Brake specifications** (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) Note4	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

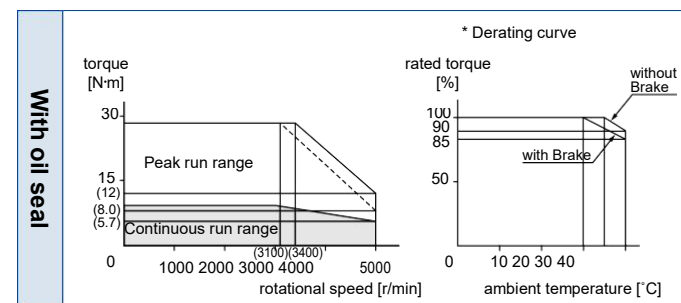
• For details of Note 1 to Note 5, refer to P.182, P.183.
• Dimensions of Driver, refer to P.45.

*1 Motor specifications: □

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

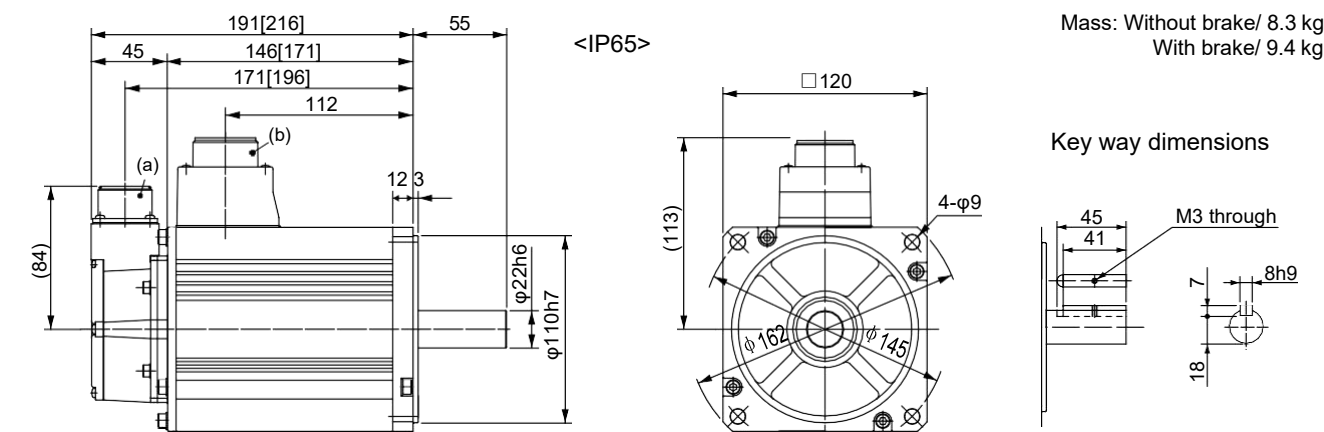
*3 ◇ in number of applicable driver represents the series. For more information about the part number, please refer to P.16.

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



Dimensions

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



(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.

Specifications

		AC400 V	
Motor model *1	IP65	MSME404GC□	MSME404SC□
	IP67	MSME404G1□	MSME404S1□
Applicable driver *2	Model No.	MFD◇TA464	
	A5II, A5 series	MFD◇TA464E	-
	A5IIE, A5E series	-	-
Frame symbol		F-frame	
Power supply capacity (kVA)	6.8		
Rated output (W)	4000		
Rated torque (N·m)	12.7		
Momentary Max. peak torque (N·m)	38.2		
Rated current (A(rms))	9.9		
Max. current (A(o-p))	42		
Regenerative brake frequency (times/min) Note1	Without option	No limit Note2	
	DV0PM20049×2	No limit Note2	
Rated rotational speed (r/min)	3000		
Max. rotational speed (r/min)	4500		
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	12.9	
	With brake	14.2	
Recommended moment of inertia ratio of the load and the rotor Note3	15 times or less		
Rotary encoder specifications Note5	20-bit Incremental	17-bit Absolute	
	Resolution per single turn	1048576	131072

• **Brake specifications** (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)	16.2 or more
Engaging time (ms)	110 or less
Releasing time (ms) Note4	50 or less
Exciting current (DC) (A)	0.90±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)	784
	Thrust load A, B-direction (N)	343

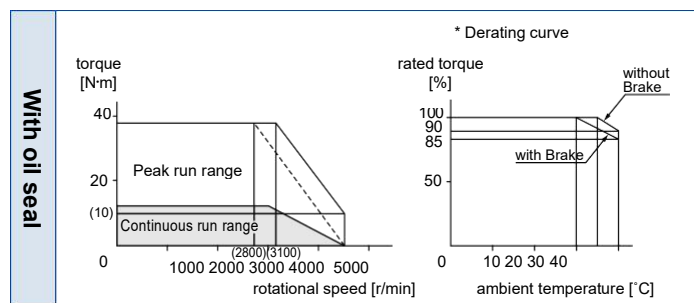
• For details of Note 1 to Note 5, refer to P.182, P.183.
• Dimensions of Driver, refer to P.45.

*1 Motor specifications: □

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

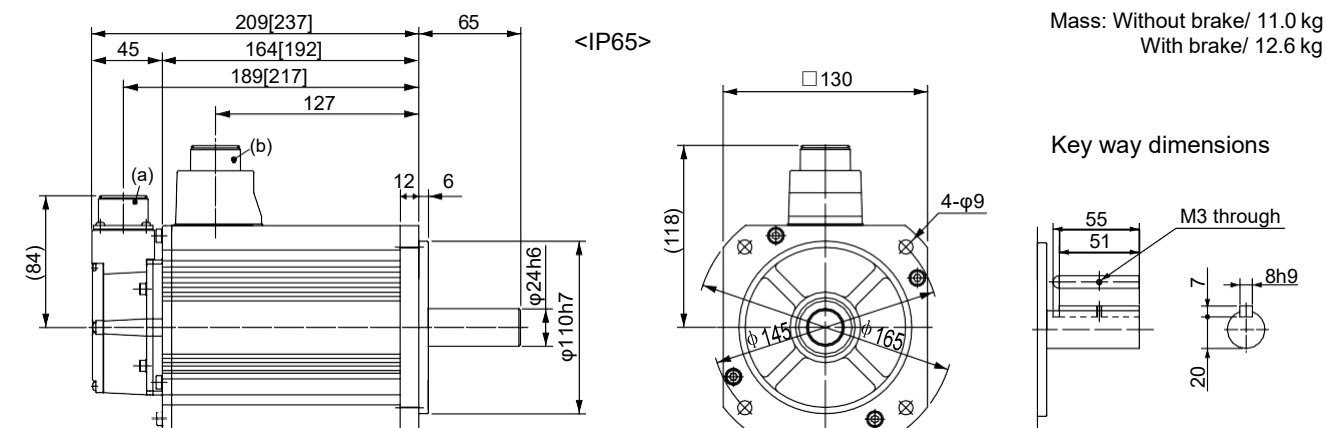
*3 ◇ in number of applicable driver represents the series. For more information about the part number, please refer to P.16.

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



Dimensions

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



* 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.

Specifications

		AC400 V	
Motor model *1	IP65	MSME504GC□	MSME504SC□
	IP67	MSME504G1□	MSME504S1□
Applicable driver *2	Model No.	MFD◇TA464	
	A5II, A5 series	MFD◇TA464E	-
	A5IIE, A5E series	-	-
Frame symbol		F-frame	
Power supply capacity (kVA)	7.5		
Rated output (W)	5000		
Rated torque (N·m)	15.9		
Momentary Max. peak torque (N·m)	47.7		
Rated current (A(rms))	12.0		
Max. current (A(o-p))	51		
Regenerative brake frequency (times/min) Note1	Without option	357	
	DV0PM20049×2	No limit Note2	
Rated rotational speed (r/min)	3000		
Max. rotational speed (r/min)	4500		
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	17.4	
	With brake	18.6	
Recommended moment of inertia ratio of the load and the rotor Note3	15 times or less		
Rotary encoder specifications Note5	20-bit Incremental	17-bit Absolute	
	Resolution per single turn	1048576	131072

• **Brake specifications** (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)	16.2 or more
Engaging time (ms)	110 or less
Releasing time (ms) Note4	50 or less
Exciting current (DC) (A)	0.90±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)	784
	Thrust load A, B-direction (N)	343

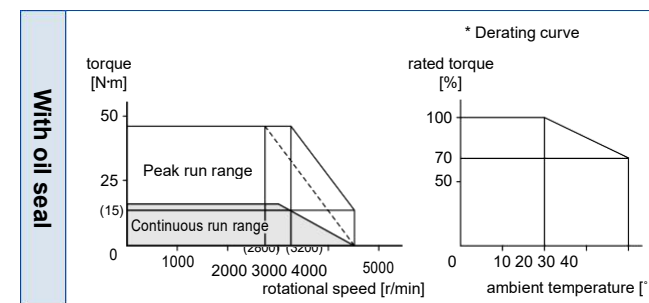
• For details of Note 1 to Note 5, refer to P.182, P.183.
• Dimensions of Driver, refer to P.45.

*1 Motor specifications: □

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

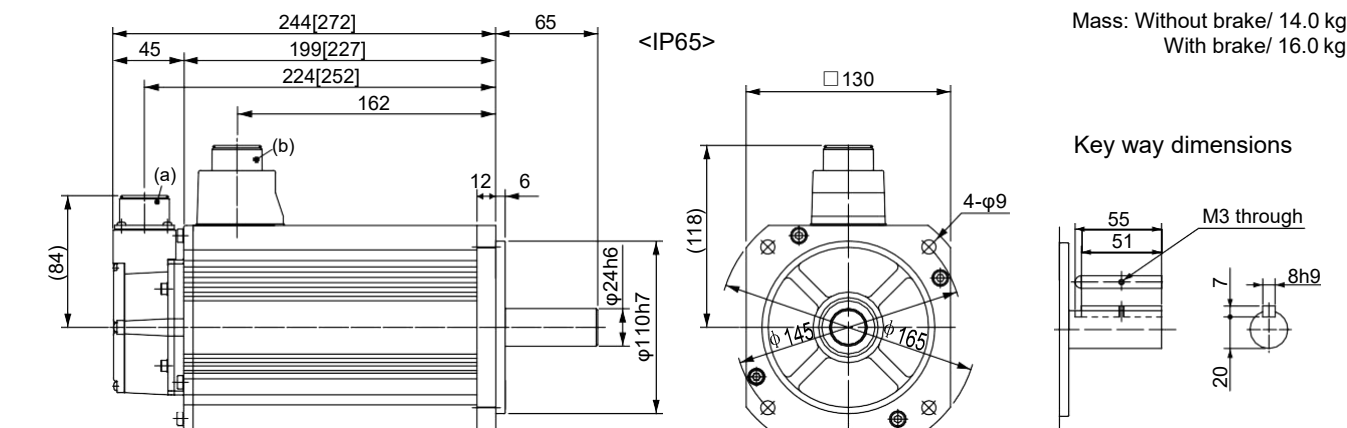
*3 ◇ in number of applicable driver represents the series. For more information about the part number, please refer to P.16.

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



Dimensions

(For IP67 motor, refer to P.138.)



* 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.

Specifications

		AC400 V	
Motor model *1	IP65	MDME044GC□	MDME044SC□
	IP67	MDME044G1□	MDME044S1□
Applicable driver *2	Model No.	MDD◇T2407	
	Model No.	A5II, A5 series	MDD◇T2407E
	Frame symbol	D-frame	
Power supply capacity (kVA)		0.9	
Rated output (W)		400	
Rated torque (N·m)		1.91	
Momentary Max. peak torque (N·m)		5.73	
Rated current (A(rms))		1.2	
Max. current (A(o-p))		4.9	
Regenerative brake frequency (times/min) Note1	Without option	No limit Note2	
	DV0PM20048	No limit Note2	
Rated rotational speed (r/min)		2000	
Max. rotational speed (r/min)		3000	
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	1.61	
	With brake	1.93	
Recommended moment of inertia ratio of the load and the rotor Note3		10 times or less	
Rotary encoder specifications Note5		20-bit Incremental	17-bit Absolute
	Resolution per single turn	1048576	131072

• **Brake specifications** (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)	2.5 or more
Engaging time (ms)	50 or less
Releasing time (ms) Note4	15 or less
Exciting current (DC) (A)	0.70±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

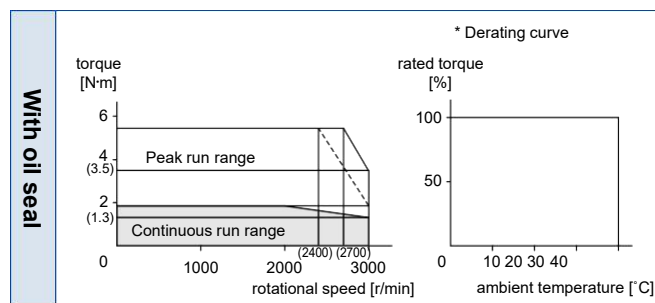
• For details of Note 1 to Note 5, refer to P.182, P.183.
• Dimensions of Driver, refer to P.44.

*1 Motor specifications: □

*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.

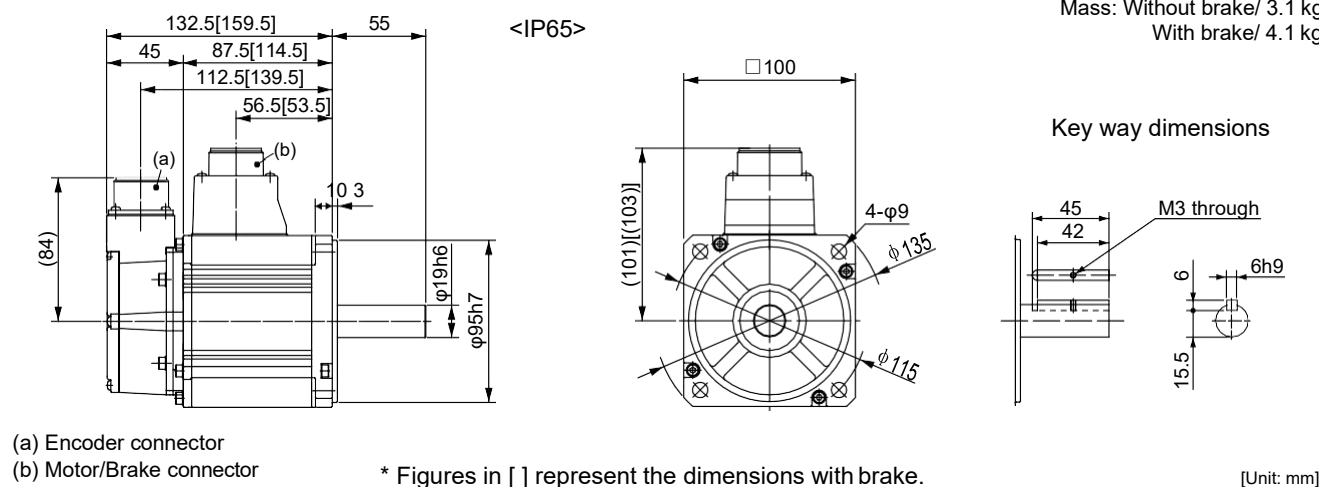
Torque characteristics (at AC400 V of power voltage <Dotted line represents the torque at 10 % less supply voltage.>)



Dimensions

(For IP67 motor, refer to P.138.)

Mass: Without brake/ 3.1 kg
With brake/ 4.1 kg



(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.

Specifications

		AC400 V	
Motor model *1	IP65	MDME064GC□	MDME064SC□
	IP67	MDME064G1□	MDME064S1□
Applicable driver *2	Model No.	MDD◇T2407	
	Model No.	A5II, A5 series	MDD◇T2407E
	Frame symbol	D-frame	
Power supply capacity (kVA)		1.2	
Rated output (W)		600	
Rated torque (N·m)		2.86	
Momentary Max. peak torque (N·m)		8.59	
Rated current (A(rms))		1.5	
Max. current (A(o-p))		6.5	
Regenerative brake frequency (times/min) Note1	Without option	No limit Note2	
	DV0PM20048	No limit Note2	
Rated rotational speed (r/min)		2000	
Max. rotational speed (r/min)		3000	
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	2.03	
	With brake	2.35	
Recommended moment of inertia ratio of the load and the rotor Note3		10 times or less	
Rotary encoder specifications Note5		20-bit Incremental	17-bit Absolute
	Resolution per single turn	1048576	131072

• **Brake specifications** (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)	2.5 or more
Engaging time (ms)	50 or less
Releasing time (ms) Note4	15 or less
Exciting current (DC) (A)	0.70±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

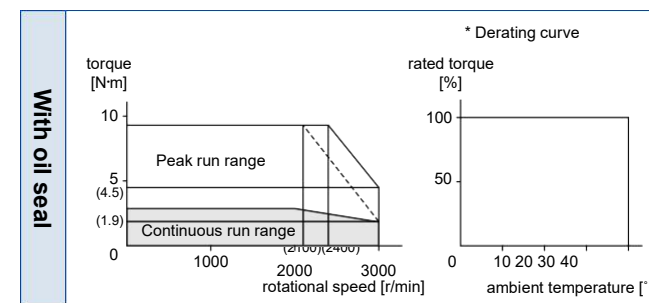
• For details of Note 1 to Note 5, refer to P.182, P.183.
• Dimensions of Driver, refer to P.44.

*1 Motor specifications: □

*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.

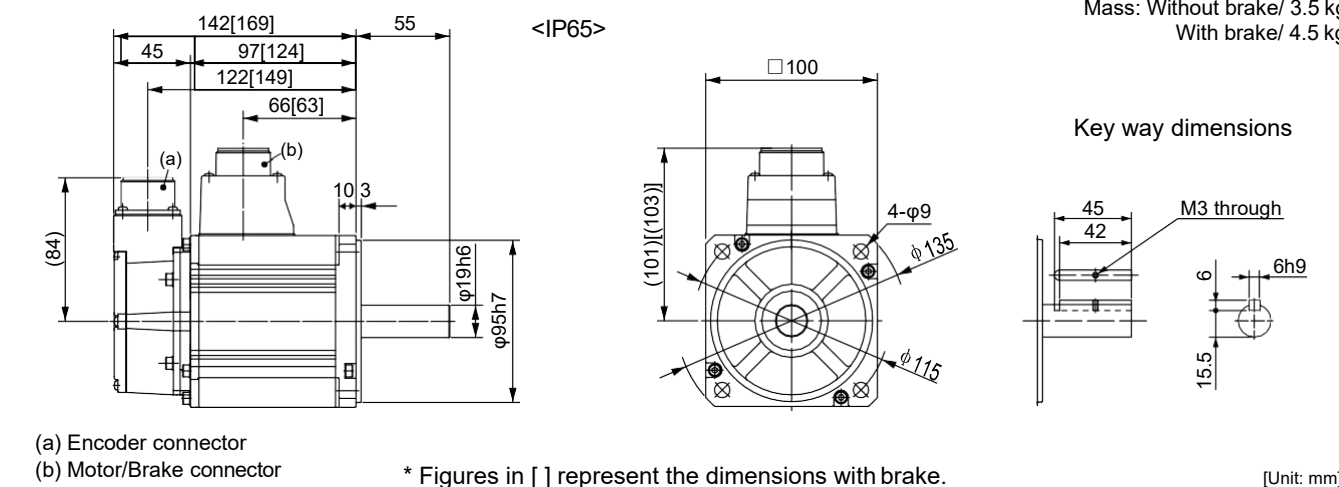
Torque characteristics (at AC400 V of power voltage <Dotted line represents the torque at 10 % less supply voltage.>)



Dimensions

(For IP67 motor, refer to P.138.)

Mass: Without brake/ 3.5 kg
With brake/ 4.5 kg



(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.

Specifications

		AC400 V	
Motor model *1	IP65	MDME104GC□	MDME104SC□
	IP67	MDME104G1□	MDME104S1□
Applicable driver *2	Model No.	MDD◇T2412	
	A5II, A5 series	MDD◇T2412E	-
	A5IE, A5E series	-	-
Frame symbol		D-frame	
Power supply capacity (kVA)	1.8		
Rated output (W)	1000		
Rated torque (N·m)	4.77		
Momentary Max. peak torque (N·m)	14.3		
Rated current (A(rms))	2.8		
Max. current (A(o-p))	12		
Regenerative brake frequency (times/min)Note1	Without option	No limit Note2	
	DV0PM20048	No limit Note2	
Rated rotational speed (r/min)	2000		
Max. rotational speed (r/min)	3000		
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	4.60	
	With brake	5.90	
Recommended moment of inertia ratio of the load and the rotor Note3	10 times or less		
Rotary encoder specifications Note5	20-bit Incremental	17-bit Absolute	
	Resolution per single turn	1048576	131072

• **Brake specifications** (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)	4.9 or more
Engaging time (ms)	80 or less
Releasing time (ms) Note4	70 or less
Exciting current (DC) (A)	0.59±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.

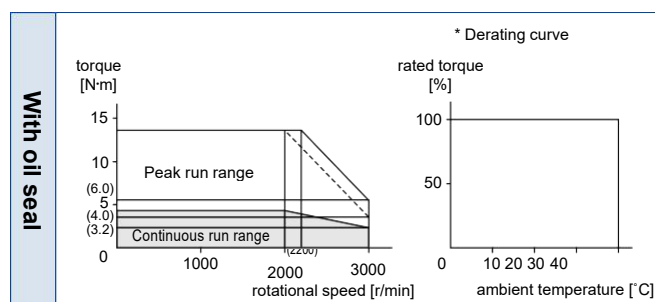
• Dimensions of Driver, refer to P.44.

*1 Motor specifications: □

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

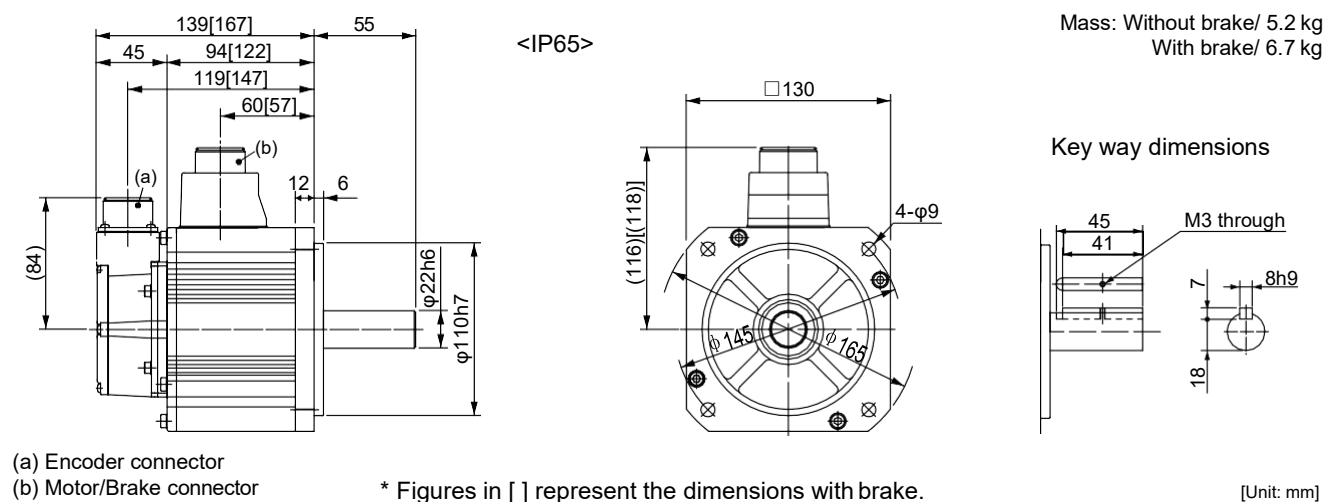
*3 ◇ in number of applicable driver represents the series. For more information about the part number, please refer to P.16.

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



Dimensions

(For IP67 motor, refer to P.138.)



(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.

Specifications

		AC400 V	
Motor model *1	IP65	MDME154GC□	MDME154SC□
	IP67	MDME154G1□	MDME154S1□
Applicable driver *2	Model No.	MDD◇T3420	
	A5II, A5 series	MDD◇T3420E	-
	A5IE, A5E series	-	-
Frame symbol		D-frame	
Power supply capacity (kVA)	2.3		
Rated output (W)	1500		
Rated torque (N·m)	7.16		
Momentary Max. peak torque (N·m)	21.5		
Rated current (A(rms))	4.7		
Max. current (A(o-p))	20		
Regenerative brake frequency (times/min)Note1	Without option	No limit Note2	
	DV0PM20048	No limit Note2	
Rated rotational speed (r/min)	2000		
Max. rotational speed (r/min)	3000		
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	6.70	
	With brake	7.99	
Recommended moment of inertia ratio of the load and the rotor Note3	10 times or less		
Rotary encoder specifications Note5	20-bit Incremental	17-bit Absolute	
	Resolution per single turn	1048576	131072

• **Brake specifications** (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)	13.7 or more
Engaging time (ms)	100 or less
Releasing time (ms) Note4	50 or less
Exciting current (DC) (A)	0.79±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.

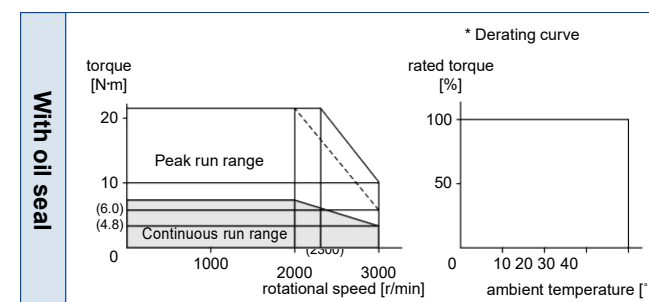
• Dimensions of Driver, refer to P.44.

*1 Motor specifications: □

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

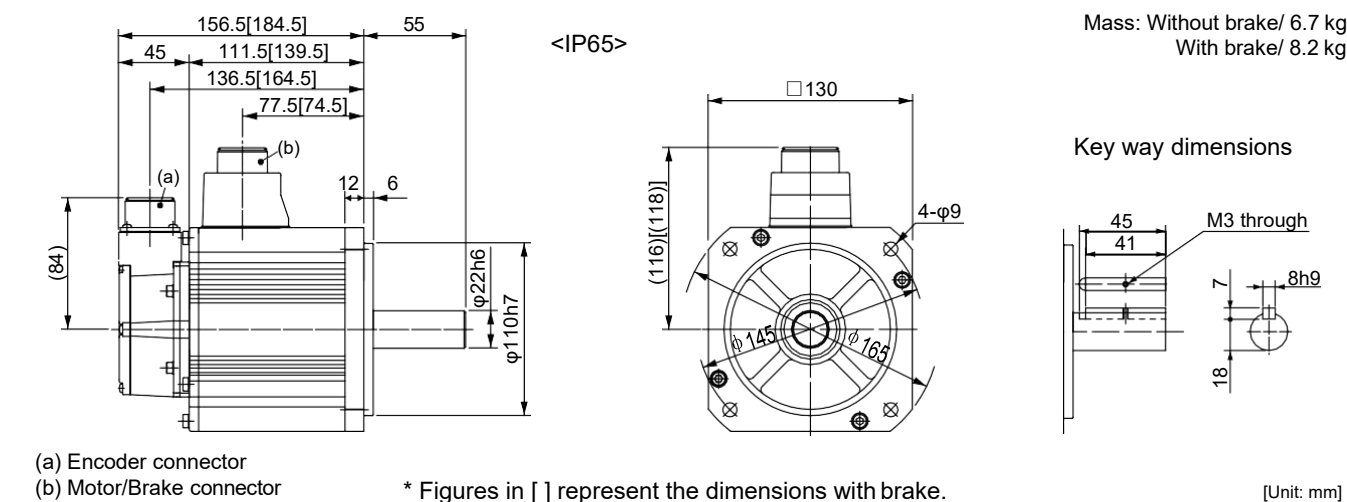
*3 ◇ in number of applicable driver represents the series. For more information about the part number, please refer to P.16.

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



Dimensions

(For IP67 motor, refer to P.138.)



(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.

Specifications

		AC400 V	
Motor model *1	IP65	MDME204GC□	MDME204SC□
	IP67	MDME204G1□	MDME204S1□
Applicable driver *2	Model No.	MED◇T4430	
	A5II, A5 series	MDME204GC□	MDME204SC□
	A5IIE, A5E series	MDME204G1□	MDME204S1□
Frame symbol		E-frame	
Power supply capacity (kVA)		3.3	
Rated output (W)		2000	
Rated torque (N·m)		9.55	
Momentary Max. peak torque (N·m)		28.6	
Rated current (A(rms))		5.9	
Max. current (A(o-p))		25	
Regenerative brake frequency (times/min) Note1	Without option	No limit Note2	
	DV0PM20049	No limit Note2	
Rated rotational speed (r/min)		2000	
Max. rotational speed (r/min)		3000	
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	8.72	
	With brake	10.0	
Recommended moment of inertia ratio of the load and the rotor Note3		10 times or less	
Rotary encoder specifications Note5		20-bit Incremental	17-bit Absolute
	Resolution per single turn	1048576	131072

• **Brake specifications** (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)	13.7 or more
Engaging time (ms)	100 or less
Releasing time (ms) Note4	50 or less
Exciting current (DC) (A)	0.79±10 %
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

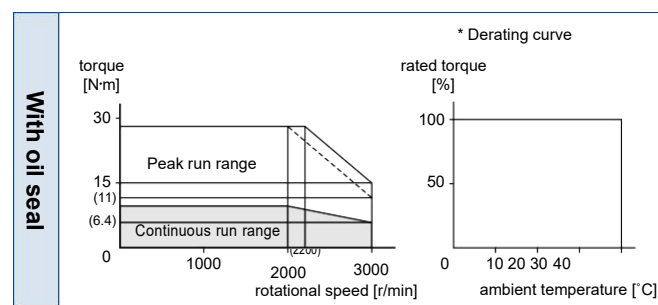
• **Permissible load** (For details, refer to P.183)

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.

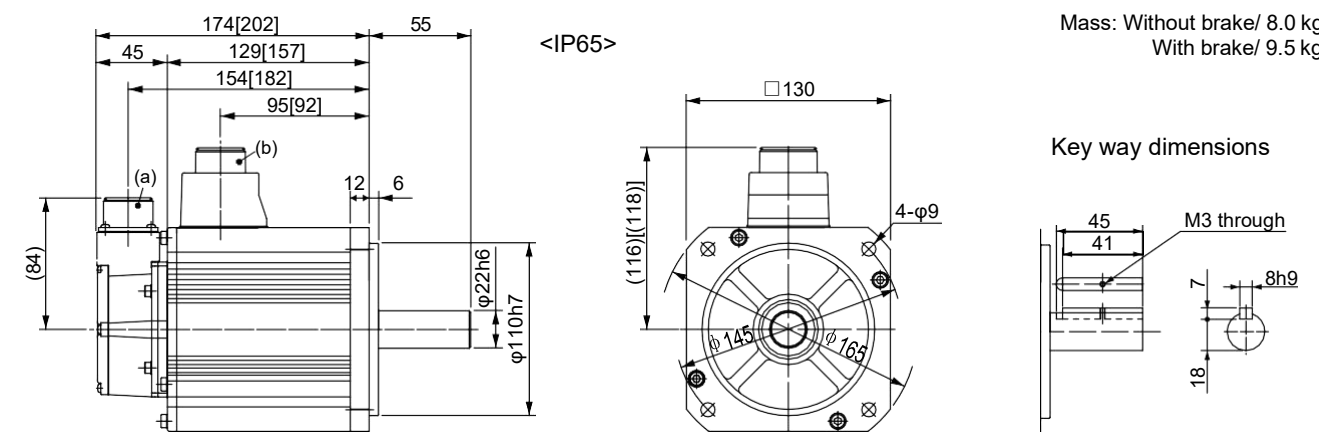
- *1 Motor specifications: □
- *2 The product that the end of driver model designation has "E" is "Position control type". Detail of model designation, refer to P.16.
- *3 ◇ in number of applicable driver represents the series. For more information about the part number, please refer to P.16.

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



Dimensions

(For IP67 motor, refer to P.138.)



(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.

Specifications

		AC400 V	
Motor model *1	IP65	MDME304GC□	MDME304SC□
	IP67	MDME304G1□	MDME304S1□
Applicable driver *2	Model No.	MFD◇T5440	
	A5II, A5 series	MDME304GC□	MDME304SC□
	A5IIE, A5E series	MDME304G1□	MDME304S1□
Frame symbol		F-frame	
Power supply capacity (kVA)		4.5	
Rated output (W)		3000	
Rated torque (N·m)		14.3	
Momentary Max. peak torque (N·m)		43.0	
Rated current (A(rms))		8.7	
Max. current (A(o-p))		37	
Regenerative brake frequency (times/min) Note1	Without option	No limit Note2	
	DV0PM20049×2	No limit Note2	
Rated rotational speed (r/min)		2000	
Max. rotational speed (r/min)		3000	
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	12.9	
	With brake	14.2	
Recommended moment of inertia ratio of the load and the rotor Note3		10 times or less	
Rotary encoder specifications Note5		20-bit Incremental	17-bit Absolute
	Resolution per single turn	1048576	131072

• **Brake specifications** (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)	16.2 or more
Engaging time (ms)	110 or less
Releasing time (ms) Note4	50 or less
Exciting current (DC) (A)	0.90±10 %
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

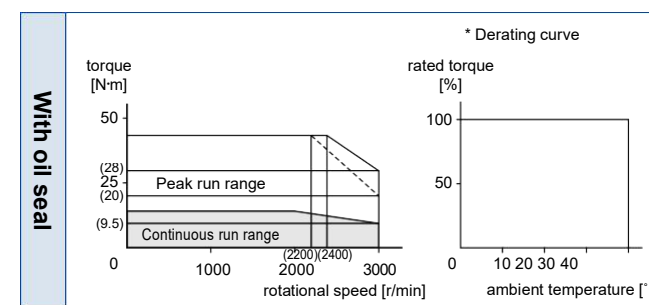
• **Permissible load** (For details, refer to P.183)

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)	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.

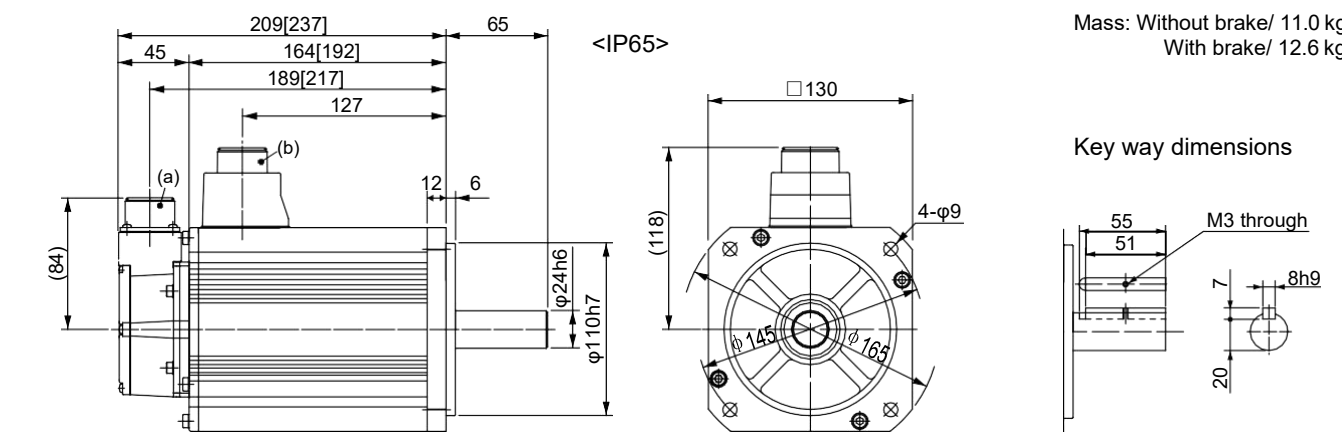
- *1 Motor specifications: □
- *2 The product that the end of driver model designation has "E" is "Position control type". Detail of model designation, refer to P.16.
- *3 ◇ in number of applicable driver represents the series. For more information about the part number, please refer to P.16.

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



Dimensions

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



(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.

Specifications

		AC400 V	
Motor model *1	IP65	MDME404GC□	MDME404SC□
	IP67	MDME404G1□	MDME404S1□
Applicable driver *2	Model No.	MFD◇TA464	
	A5II, A5 series	MFD◇TA464E	-
	A5IIE, A5E series	-	-
Frame symbol		F-frame	
Power supply capacity (kVA)	6.8		
Rated output (W)	4000		
Rated torque (N·m)	19.1		
Momentary Max. peak torque (N·m)	57.3		
Rated current (A(rms))	10.6		
Max. current (A(o-p))	45		
Regenerative brake frequency (times/min) Note1	Without option	No limit Note2	
	DV0PM20049×2	No limit Note2	
Rated rotational speed (r/min)	2000		
Max. rotational speed (r/min)	3000		
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	37.6	
	With brake	42.9	
Recommended moment of inertia ratio of the load and the rotor Note3	10 times or less		
Rotary encoder specifications Note5	20-bit Incremental	17-bit Absolute	
	Resolution per single turn	1048576	131072

• **Brake specifications** (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) Note4	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

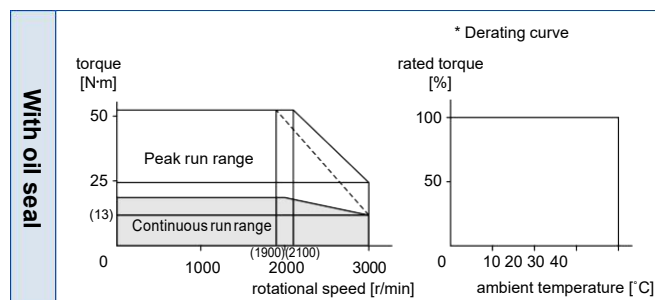
• For details of Note 1 to Note 5, refer to P.182, P.183.
• Dimensions of Driver, refer to P.45.

*1 Motor specifications: □

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

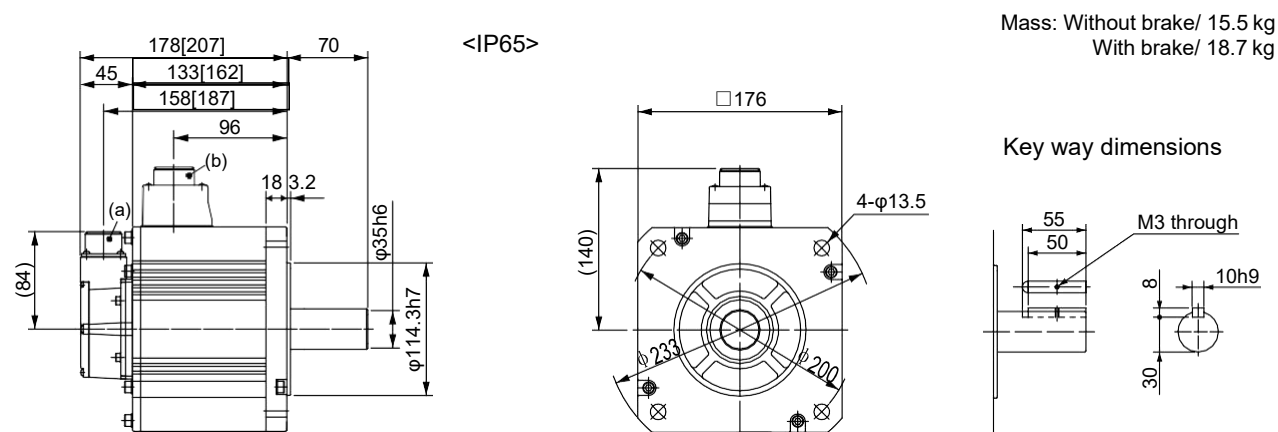
*3 ◇ in number of applicable driver represents the series. For more information about the part number, please refer to P.16.

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



Dimensions

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



(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.

Specifications

		AC400 V	
Motor model *1	IP65	MDME504GC□	MDME504SC□
	IP67	MDME504G1□	MDME504S1□
Applicable driver *2	Model No.	MFD◇TA464	
	A5II, A5 series	MFD◇TA464E	-
	A5IIE, A5E series	-	-
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) Note1	Without option	120	
	DV0PM20049×2	No limit Note2	
Rated rotational speed (r/min)	2000		
Max. rotational speed (r/min)	3000		
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	48.0	
	With brake	53.3	
Recommended moment of inertia ratio of the load and the rotor Note3	10 times or less		
Rotary encoder specifications Note5	20-bit Incremental	17-bit Absolute	
	Resolution per single turn	1048576	131072

• **Brake specifications** (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) Note4	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

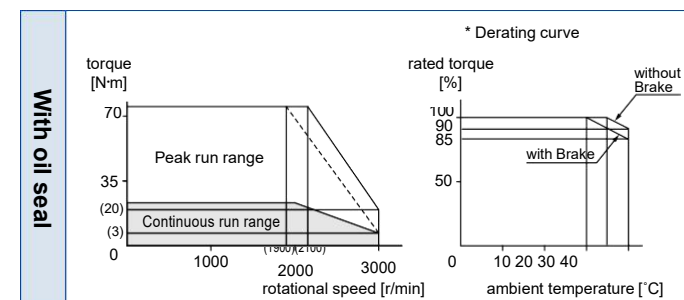
• For details of Note 1 to Note 5, refer to P.182, P.183.
• Dimensions of Driver, refer to P.45.

*1 Motor specifications: □

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

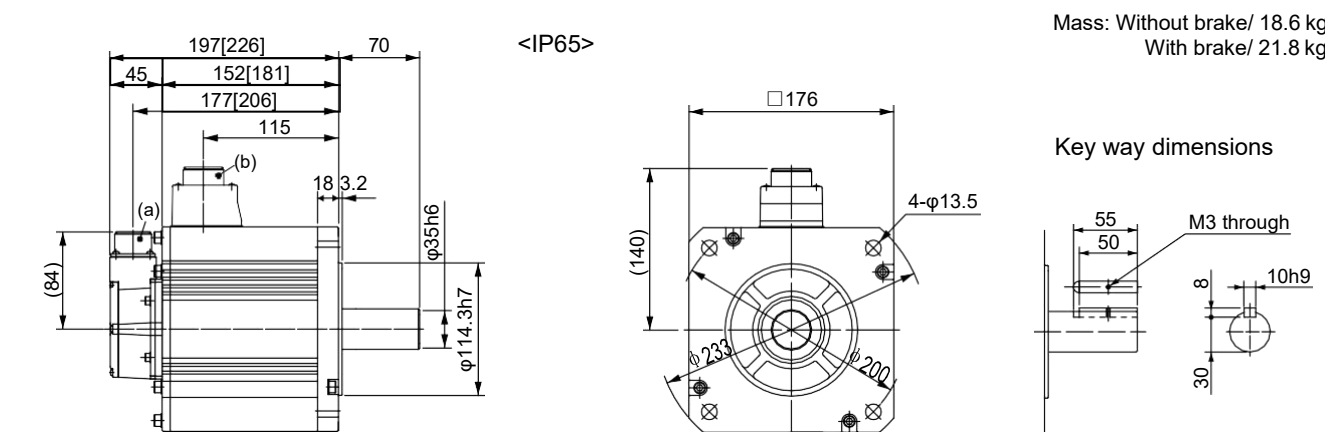
*3 ◇ in number of applicable driver represents the series. For more information about the part number, please refer to P.16.

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



Dimensions

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



(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.

Specifications

		AC400 V	
Motor model *1	IP65	-	-
	IP67	MDME754G1□	MDME754S1□
Applicable driver *2	Model No.	A5II, A5 series	MGD◇TB4A2
		A5IE, A5E series	-
	Frame symbol	G-frame	
Power supply capacity (kVA)		11	
Rated output (W)		7500	
Rated torque (N·m)		47.8	
Momentary Max. peak torque (N·m)		119	
Rated current (A(rms))		22	
Max. current (A(o-p))		83	
Regenerative brake frequency (times/min) Note)1	Without option	No limit Note)2	
	DV0PM20049×3	No limit Note)2	
Rated rotational speed (r/min)		1500	
Max. rotational speed (r/min)		3000	
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	101	
	With brake	107	
Recommended moment of inertia ratio of the load and the rotor Note)3		10 times or less	
Rotary encoder specifications Note)5		20-bit Incremental	17-bit Absolute
	Resolution per single turn	1048576	131072

• **Brake specifications** (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)	58.8 or more
Engaging time (ms)	150 or less
Releasing time (ms) Note)4	50 or less
Exciting current (DC) (A)	1.4±10 %
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

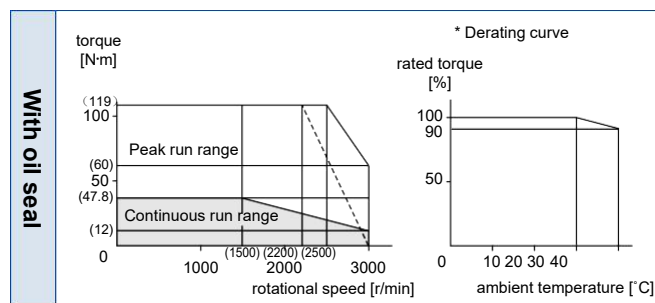
• **Permissible load** (For details, refer to P.183)

During assembly	Radial load P-direction (N)	2058
	Thrust load A-direction (N)	980
	Thrust load B-direction (N)	1176
During operation	Radial load P-direction (N)	1176
	Thrust load A, B-direction (N)	490

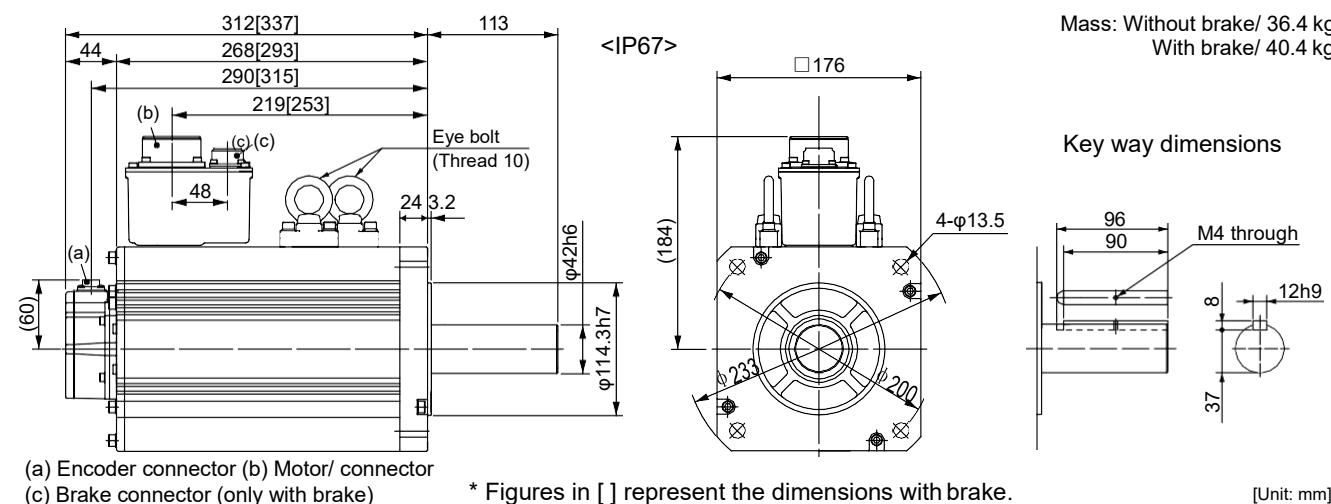
• For details of Note 1 to Note 5, refer to P.182, P.183.
• Dimensions of Driver, refer to P.46.

- *1 Motor specifications: □
- *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.>)



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.

Specifications

		AC400 V	
Motor model *1	IP65	-	-
	IP67	MDMEC14G1□	MDMEC14S1□
Applicable driver *2	Model No.	A5II, A5 series	MHD◇TB4A2
		A5IE, 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 (×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 specifications Note)5		20-bit Incremental	17-bit Absolute
	Resolution per single turn	1048576	131072

• **Brake specifications** (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

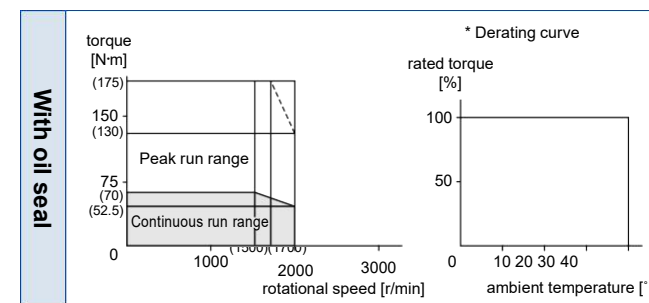
• **Permissible load** (For details, refer to P.183)

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

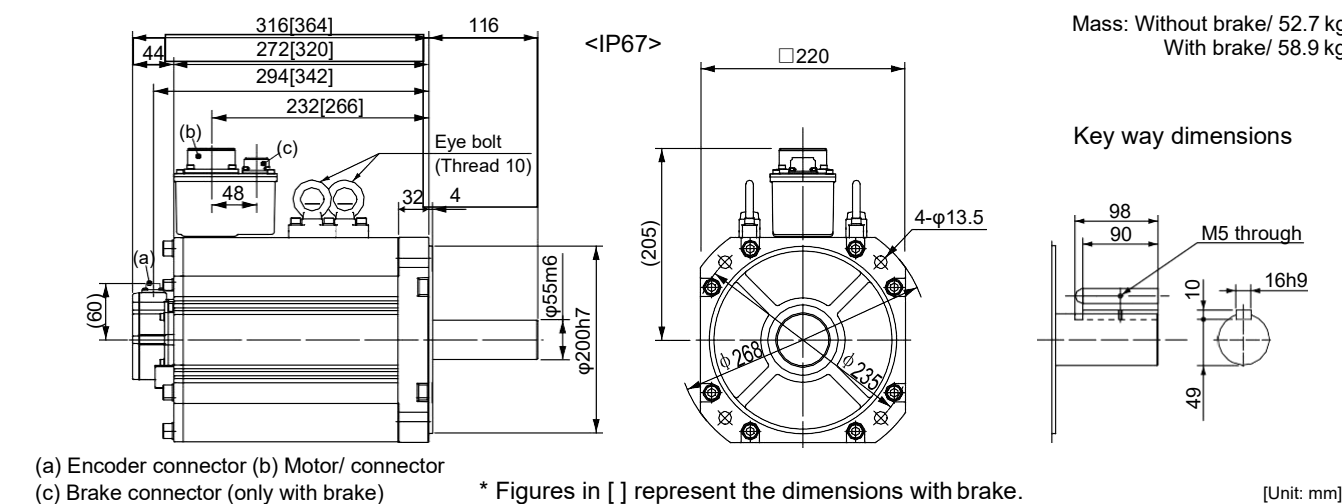
• For details of Note 1 to Note 5, refer to P.182, P.183.
• Dimensions of Driver, refer to P.46.

- *1 Motor specifications: □
- *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.>)



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.

Specifications

		AC400 V	
Motor model *1	IP65	-	-
	IP67	MDMEC54G1□	MDMEC54S1□
Applicable driver *2	Model No.	A5II, A5 series	MHD◇TB4A2
		A5IE, A5E series	-
Frame symbol		H-frame	
Power supply capacity (kVA)	22		
Rated output (W)	15000		
Rated torque (N-m)	95.5		
Momentary Max. peak torque (N-m)	224		
Rated current (A(rms))	33.1		
Max. current (A(o-p))	118		
Regenerative brake frequency (times/min)Note1	Without option	No limit Note2	
	DV0PM20059	No limit Note2	
Rated rotational speed (r/min)	1500		
Max. rotational speed (r/min)	2000		
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	302	
	With brake	211	
Recommended moment of inertia ratio of the load and the rotor Note3	10 times or less		
Rotary encoder specifications Note5	20-bit Incremental	17-bit Absolute	
	Resolution per single turn	1048576	131072

• **Brake specifications** (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) Note4	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.

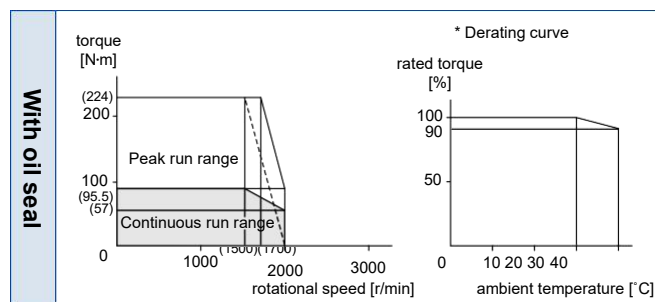
• Dimensions of Driver, refer to P.47.

*1 Motor specifications: □

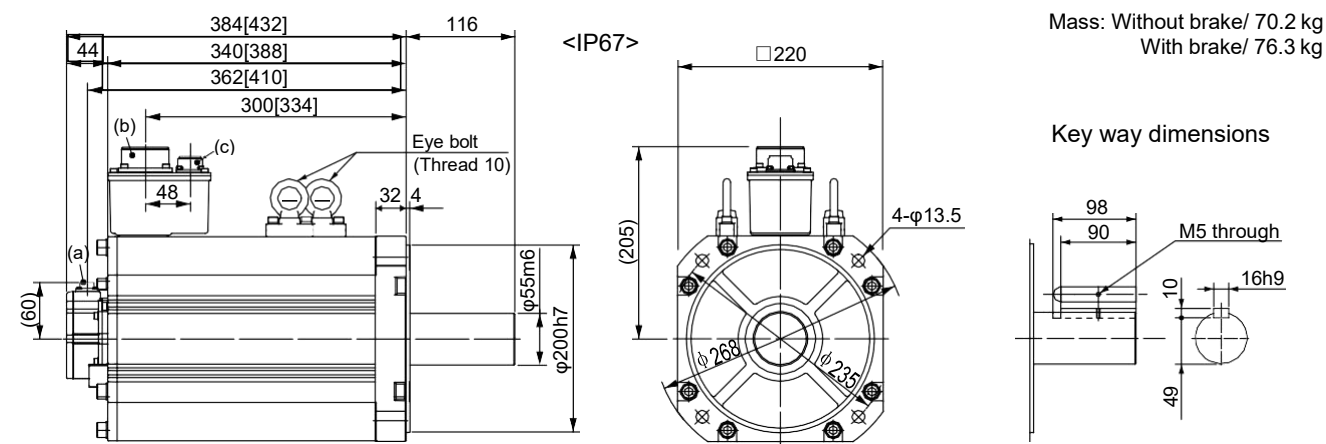
*2 The product that the end of driver model designation has "E" is "Position control type".
Detail of model designation, refer to P.16.

*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.>)



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.

Specifications

		AC400 V	
Motor model *1	IP65	-	-
	IP67	MFME154G1□	MFME154S1□
Applicable driver *2	Model No.	A5II, A5 series	MDD◇T3420
		A5IE, A5E series	MDD◇T3420E
Frame symbol		D-frame	
Power supply capacity (kVA)	2.4		
Rated output (W)	1500		
Rated torque (N-m)	7.16		
Momentary Max. peak torque (N-m)	21.5		
Rated current (A(rms))	3.8		
Max. current (A(o-p))	16		
Regenerative brake frequency (times/min)Note1	Without option	100	
	DV0PM20048	No limit Note2	
Rated rotational speed (r/min)	2000		
Max. rotational speed (r/min)	3000		
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	18.2	
	With brake	23.5	
Recommended moment of inertia ratio of the load and the rotor Note3	10 times or less		
Rotary encoder specifications Note5	20-bit Incremental	17-bit Absolute	
	Resolution per single turn	1048576	131072

• **Brake specifications** (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)	7.8 or more
Engaging time (ms)	80 or less
Releasing time (ms) Note4	35 or less
Exciting current (DC) (A)	0.83±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.

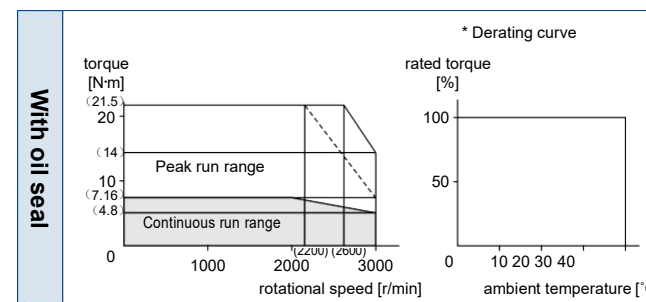
• Dimensions of Driver, refer to P.44.

*1 Motor specifications: □

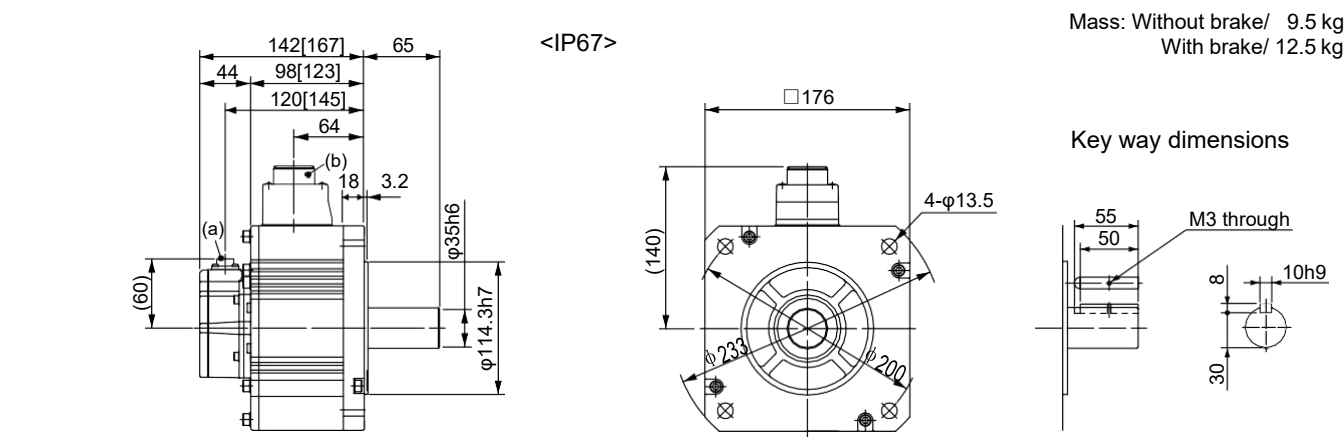
*2 The product that the end of driver model designation has "E" is "Position control type".
Detail of model designation, refer to P.16.

*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.>)



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.

Specifications

		AC400 V	
Motor model *1	IP65	-	-
	IP67	MFME254G1□	MFME254S1□
Applicable driver *2	Model No.	A5II, A5 series	MED◇T4430
	A5IE, A5E series	MED◇T4430E	-
Frame symbol		E-frame	
Power supply capacity (kVA)	3.9		
Rated output (W)	2500		
Rated torque (N-m)	11.9		
Momentary Max. peak torque (N-m)	30.4		
Rated current (A(rms))	6.7		
Max. current (A(o-p))	29		
Regenerative brake frequency (times/min)Note1	Without option	75	
	DV0PM20049	No limit Note2	
Rated rotational speed (r/min)	2000		
Max. rotational speed (r/min)	3000		
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	35.8	
	With brake	45.2	
Recommended moment of inertia ratio of the load and the rotor Note3	10 times or less		
Rotary encoder specifications Note5	20-bit Incremental	17-bit Absolute	
	Resolution per single turn	1048576	131072

• **Brake specifications** (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)	21.6 or more
Engaging time (ms)	150 or less
Releasing time (ms) Note4	100 or less
Exciting current (DC) (A)	0.75±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)	1862
	Thrust load A-direction (N)	686
	Thrust load B-direction (N)	686
During operation	Radial load P-direction (N)	784
	Thrust load A, B-direction (N)	294

• For details of Note 1 to Note 5, refer to P.182, P.183.

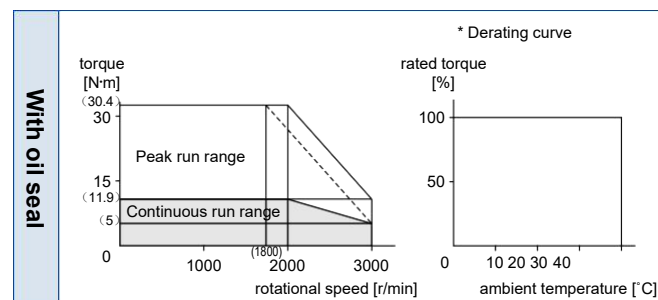
• Dimensions of Driver, refer to P.45.

*1 Motor specifications: □

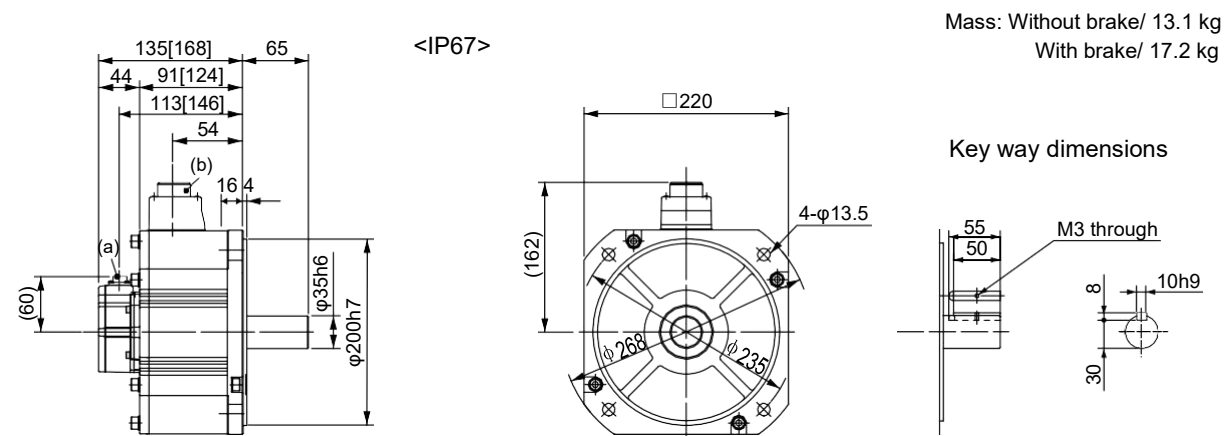
*2 The product that the end of driver model designation has "E" is "Position control type".
Detail of model designation, refer to P.16.

*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.>)



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.

Specifications

		AC400 V	
Motor model *1	IP65	-	-
	IP67	MFME454G1□	MFME454S1□
Applicable driver *2	Model No.	A5II, A5 series	MFD◇TA464
	A5IE, A5E series	MFD◇TA464E	-
Frame symbol		F-frame	
Power supply capacity (kVA)	6.9		
Rated output (W)	4500		
Rated torque (N-m)	21.5		
Momentary Max. peak torque (N-m)	54.9		
Rated current (A(rms))	12.4		
Max. current (A(o-p))	53		
Regenerative brake frequency (times/min)Note1	Without option	67	
	DV0PM20049×2	375	
Rated rotational speed (r/min)	2000		
Max. rotational speed (r/min)	3000		
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	63.1	
	With brake	70.9	
Recommended moment of inertia ratio of the load and the rotor Note3	10 times or less		
Rotary encoder specifications Note5	20-bit Incremental	17-bit Absolute	
	Resolution per single turn	1048576	131072

• **Brake specifications** (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)	31.4 or more
Engaging time (ms)	150 or less
Releasing time (ms) Note4	100 or less
Exciting current (DC) (A)	0.75±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)	1862
	Thrust load A-direction (N)	686
	Thrust load B-direction (N)	686
During operation	Radial load P-direction (N)	784
	Thrust load A, B-direction (N)	294

• For details of Note 1 to Note 5, refer to P.182, P.183.

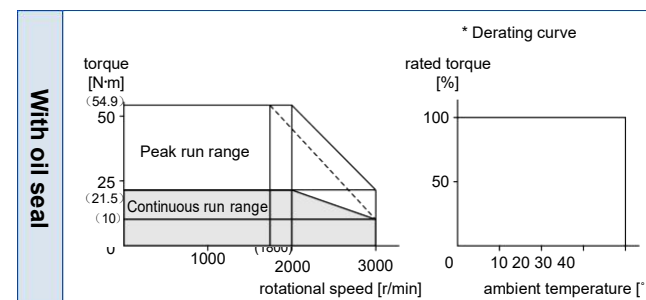
• Dimensions of Driver, refer to P.45.

*1 Motor specifications: □

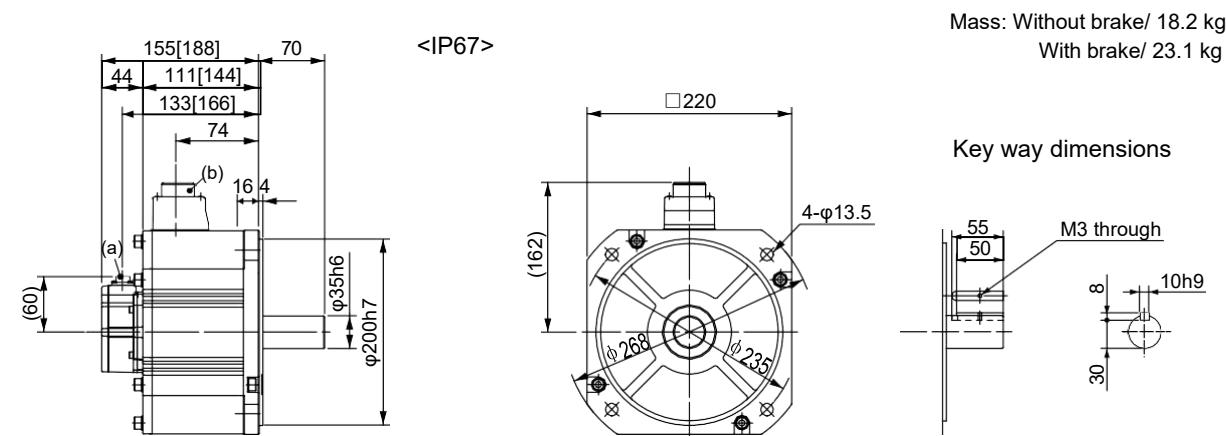
*2 The product that the end of driver model designation has "E" is "Position control type".
Detail of model designation, refer to P.16.

*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.>)



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.

Specifications

		AC400 V	
Motor model *1	IP65	MGME094GC□	MGME094SC□
	IP67	MGME094G1□	MGME094S1□
Applicable driver *2	Model No.	MDD◇T3420	
	A5II, A5 series	MDD◇T3420E	-
	A5IIE, A5E series	-	-
Frame symbol		D-frame	
Power supply capacity (kVA)	1.8		
Rated output (W)	900		
Rated torque (N·m)	8.59		
Momentary Max. peak torque (N·m)	19.3		
Rated current (A(rms))	3.8		
Max. current (A(o-p))	12		
Regenerative brake frequency (times/min)Note1	Without option	No limit Note2	
	DV0PM20048	No limit Note2	
Rated rotational speed (r/min)	1000		
Max. rotational speed (r/min)	2000		
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	6.70	
	With brake	7.99	
Recommended moment of inertia ratio of the load and the rotor Note3	10 times or less		
Rotary encoder specifications Note5	20-bit Incremental	17-bit Absolute	
	Resolution per single turn	1048576	131072

• **Brake specifications** (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)	13.7 or more
Engaging time (ms)	100 or less
Releasing time (ms) Note4	50 or less
Exciting current (DC) (A)	0.79±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)	686
	Thrust load A, B-direction (N)	196

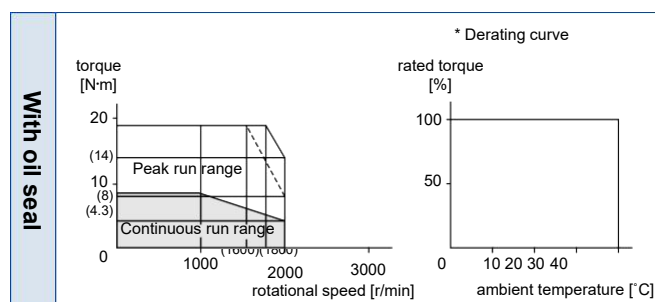
• For details of Note 1 to Note 5, refer to P.182, P.183.
• Dimensions of Driver, refer to P.44.

*1 Motor specifications: □

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

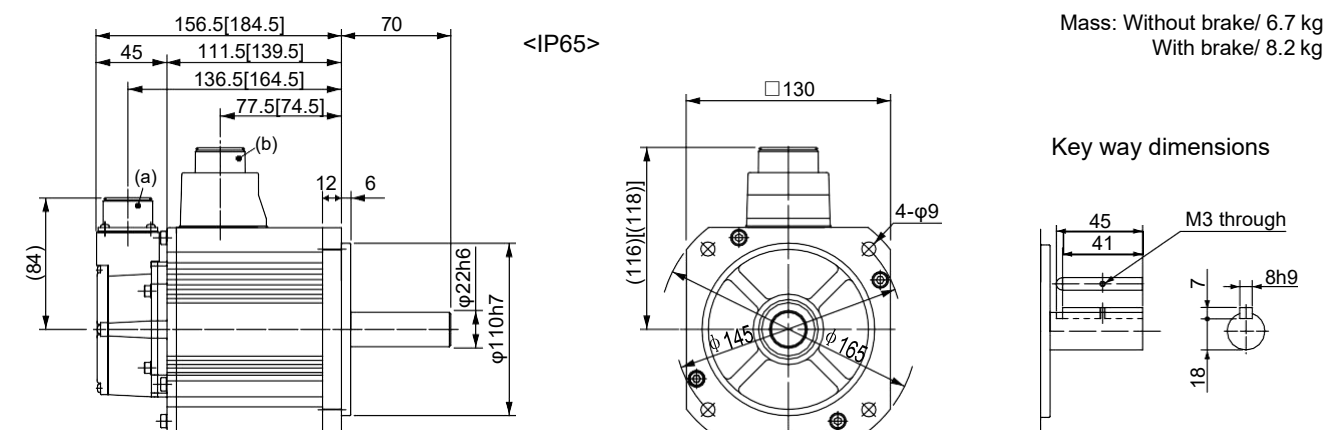
*3 ◇ in number of applicable driver represents the series. For more information about the part number, please refer to P.16.

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



Dimensions

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



(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.

Specifications

		AC400 V	
Motor model *1	IP65	MGME204GC□	MGME204SC□
	IP67	MGME204G1□	MGME204S1□
Applicable driver *2	Model No.	MFD◇T5440	
	A5II, A5 series	MFD◇T5440E	-
	A5IIE, A5E series	-	-
Frame symbol		F-frame	
Power supply capacity (kVA)	3.8		
Rated output (W)	2000		
Rated torque (N·m)	19.1		
Momentary Max. peak torque (N·m)	47.7		
Rated current (A(rms))	8.5		
Max. current (A(o-p))	30		
Regenerative brake frequency (times/min)Note1	Without option	No limit Note2	
	DV0PM20049×2	No limit Note2	
Rated rotational speed (r/min)	1000		
Max. rotational speed (r/min)	2000		
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	30.3	
	With brake	35.6	
Recommended moment of inertia ratio of the load and the rotor Note3	10 times or less		
Rotary encoder specifications Note5	20-bit Incremental	17-bit Absolute	
	Resolution per single turn	1048576	131072

• **Brake specifications** (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) Note4	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)	1176
	Thrust load A, B-direction (N)	490

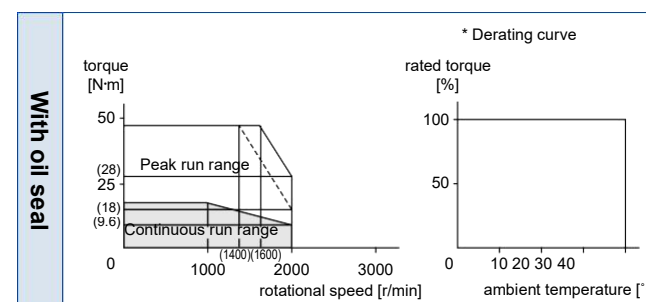
• For details of Note 1 to Note 5, refer to P.182, P.183.
• Dimensions of Driver, refer to P.45.

*1 Motor specifications: □

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

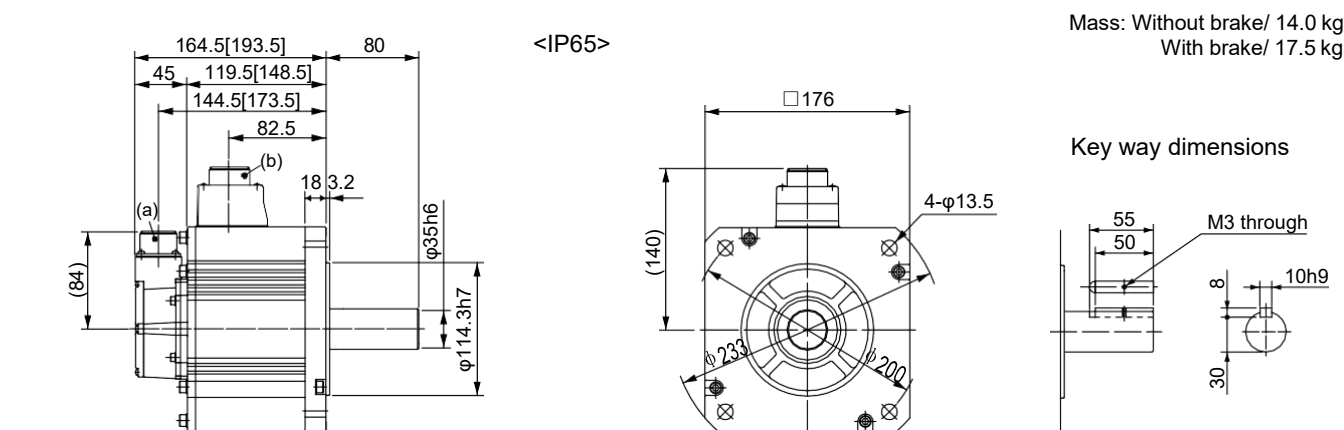
*3 ◇ in number of applicable driver represents the series. For more information about the part number, please refer to P.16.

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



Dimensions

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



(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.

Specifications

		AC400 V	
Motor model *1	IP65	MGME304GC□	MGME304SC□
	IP67	MGME304G1□	MGME304S1□
Applicable driver *2	Model No.	MFD◇TA464	
	A5II, A5 series	MFD◇TA464E	-
	A5IIE, A5E series	-	-
Frame symbol		F-frame	
Power supply capacity (kVA)	4.5		
Rated output (W)	3000		
Rated torque (N·m)	28.7		
Momentary Max. peak torque (N·m)	71.7		
Rated current (A(rms))	11.3		
Max. current (A(o-p))	40		
Regenerative brake frequency (times/min) Note1	Without option	No limit Note2	
	DVOPM20049×2	No limit Note2	
Rated rotational speed (r/min)	1000		
Max. rotational speed (r/min)	2000		
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	48.4	
	With brake	53.7	
Recommended moment of inertia ratio of the load and the rotor Note3	10 times or less		
Rotary encoder specifications Note5	20-bit Incremental	17-bit Absolute	
	Resolution per single turn	1048576	131072

• **Brake specifications** (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)	58.8 or more
Engaging time (ms)	150 or less
Releasing time (ms) Note4	50 or less
Exciting current (DC) (A)	1.4±10 %
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

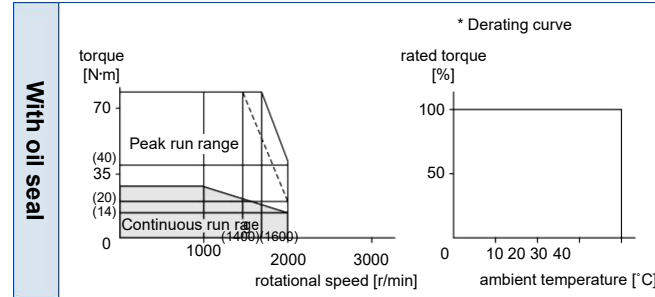
• **Permissible load** (For details, refer to P.183)

During assembly	Radial load P-direction (N)	2058
	Thrust load A-direction (N)	980
	Thrust load B-direction (N)	1176
During operation	Radial load P-direction (N)	1470
	Thrust load A, B-direction (N)	490

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

- *1 Motor specifications: □
- *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.

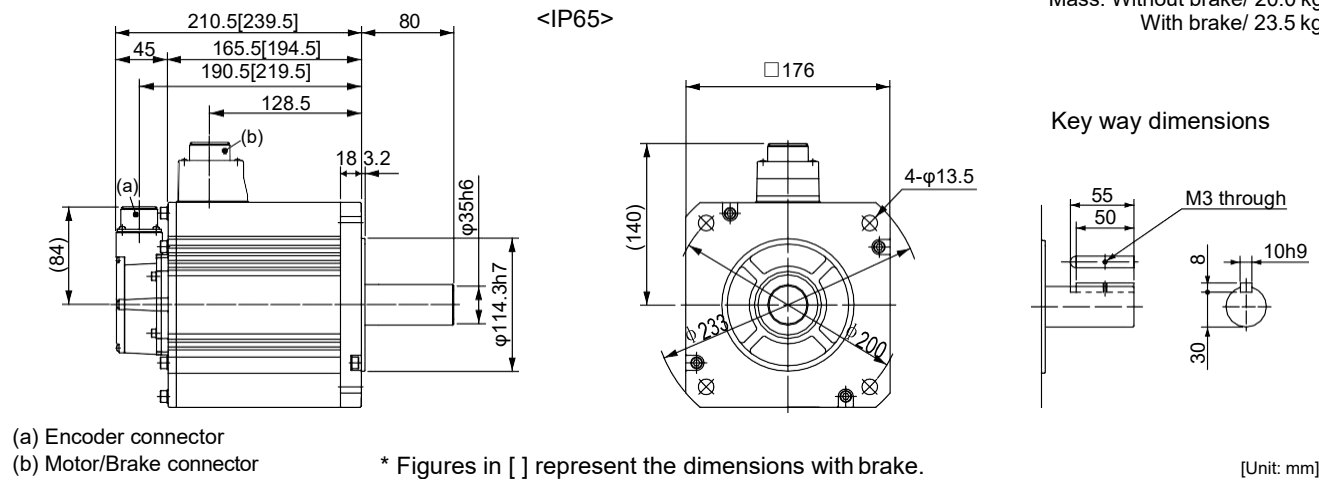
Torque characteristics (at AC400 V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions

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

Mass: Without brake/ 20.0 kg
With brake/ 23.5 kg



(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.

Specifications

		AC400 V	
Motor model *1	IP65	-	-
	IP67	MGME454G1□	MGME454S1□
Applicable driver *2	Model No.	MFD◇TA464	
	A5II, A5 series	MFD◇TA464E	-
	A5IIE, A5E series	-	-
Frame symbol		F-frame	
Power supply capacity (kVA)	7.5		
Rated output (W)	4500		
Rated torque (N·m)	43.0		
Momentary Max. peak torque (N·m)	107		
Rated current (A(rms))	14.8		
Max. current (A(o-p))	55		
Regenerative brake frequency (times/min) Note1	Without option	No limit Note2	
	DVOPM20049×2	No limit Note2	
Rated rotational speed (r/min)	1000		
Max. rotational speed (r/min)	2000		
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	79.1	
	With brake	84.4	
Recommended moment of inertia ratio of the load and the rotor Note3	10 times or less		
Rotary encoder specifications Note5	20-bit Incremental	17-bit Absolute	
	Resolution per single turn	1048576	131072

• **Brake specifications** (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)	58.8 or more
Engaging time (ms)	150 or less
Releasing time (ms) Note4	50 or less
Exciting current (DC) (A)	1.4±10 %
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

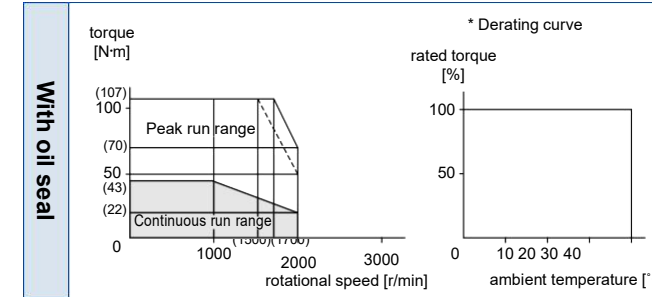
• **Permissible load** (For details, refer to P.183)

During assembly	Radial load P-direction (N)	2058
	Thrust load A-direction (N)	980
	Thrust load B-direction (N)	1176
During operation	Radial load P-direction (N)	1470
	Thrust load A, B-direction (N)	490

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

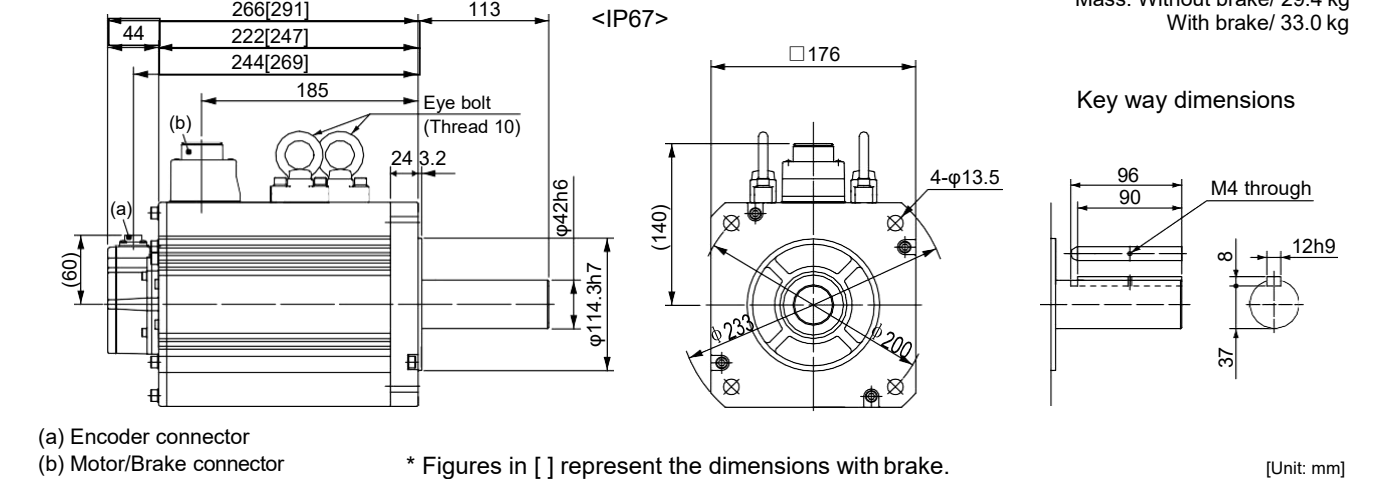
- *1 Motor specifications: □
- *2 The product that the end of driver model designation has "E" is "Position control type". Detail of model designation, refer to P.16.
- *3 ◇ in number of applicable driver represents the series. For more information about the part number, please refer to P.16.

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



Dimensions

Mass: Without brake/ 29.4 kg
With brake/ 33.0 kg



(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.

Specifications

		AC400 V	
Motor model *1	IP65	-	-
	IP67	MGME604G1□	MGME604S1□
Applicable driver *2	Model No.	MGD◇TB4A2	
	A5II, A5 series A5IIE, A5E series	-	-
Frame symbol		G-frame	
Power supply capacity (kVA)	9.0		
Rated output (W)	6000		
Rated torque (N·m)	57.3		
Momentary Max. peak torque (N·m)	143		
Rated current (A(rms))	19.4		
Max. current (A(o-p))	74		
Regenerative brake frequency (times/min)Note1	Without option	No limit Note2	
	DV0PM20049×3	No limit Note2	
Rated rotational speed (r/min)	1000		
Max. rotational speed (r/min)	2000		
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	101	
	With brake	107	
Recommended moment of inertia ratio of the load and the rotor Note3	10 times or less		
Rotary encoder specifications Note5	20-bit Incremental	17-bit Absolute	
	Resolution per single turn	1048576	131072

• **Brake specifications** (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)	58.8 or more
Engaging time (ms)	150 or less
Releasing time (ms) Note4	50 or less
Exciting current (DC) (A)	1.4±10 %
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

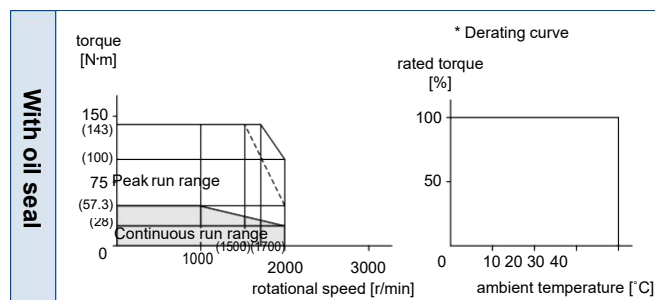
• **Permissible load** (For details, refer to P.183)

During assembly	Radial load P-direction (N)	2058
	Thrust load A-direction (N)	980
	Thrust load B-direction (N)	1176
During operation	Radial load P-direction (N)	1764
	Thrust load A, B-direction (N)	588

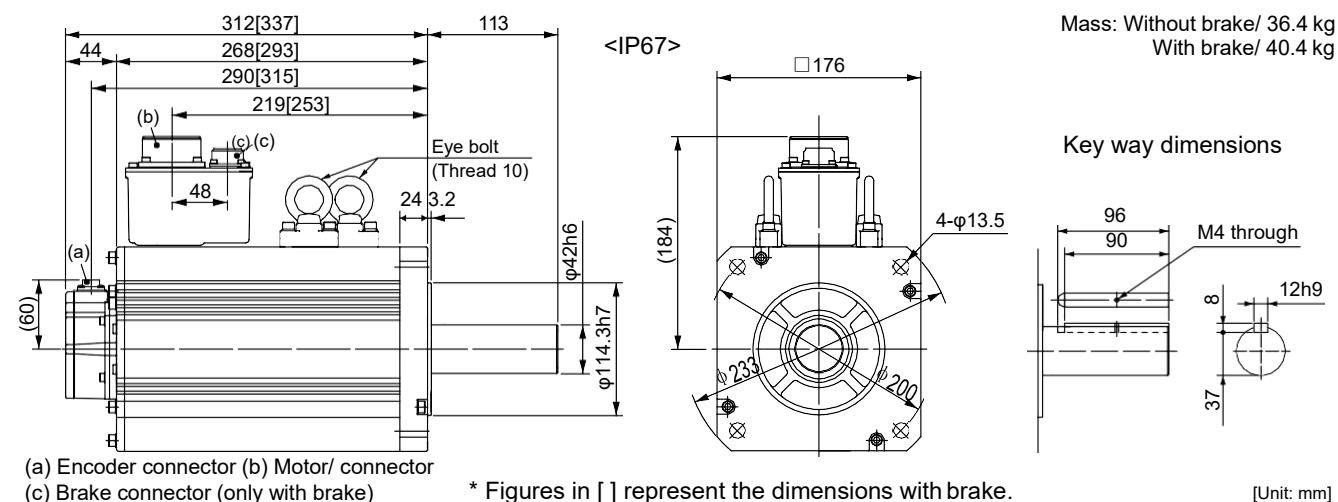
• For details of Note 1 to Note 5, refer to P.182, P.183.
• Dimensions of Driver, refer to P.46.

- *1 Motor specifications: □
- *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.>)



Dimensions



<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.

Specifications

		AC400 V	
Motor model *1	IP65	MHME104GC□	MHME104SC□
	IP67	MHME104G1□	MHME104S1□
Applicable driver *2	Model No.	MDD◇T2412	
	A5II, A5 series A5IIE, A5E series	MDD◇T2412E	-
Frame symbol		D-frame	
Power supply capacity (kVA)	1.8		
Rated output (W)	1000		
Rated torque (N·m)	4.77		
Momentary Max. peak torque (N·m)	14.3		
Rated current (A(rms))	2.9		
Max. current (A(o-p))	12		
Regenerative brake frequency (times/min)Note1	Without option	83	
	DV0PM20048	No limit Note2	
Rated rotational speed (r/min)	2000		
Max. rotational speed (r/min)	3000		
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	24.7	
	With brake	26.0	
Recommended moment of inertia ratio of the load and the rotor Note3	5 times or less		
Rotary encoder specifications Note5	20-bit Incremental	17-bit Absolute	
	Resolution per single turn	1048576	131072

• **Brake specifications** (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)	4.9 or more
Engaging time (ms)	80 or less
Releasing time (ms) Note4	70 or less
Exciting current (DC) (A)	0.59±10 %
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

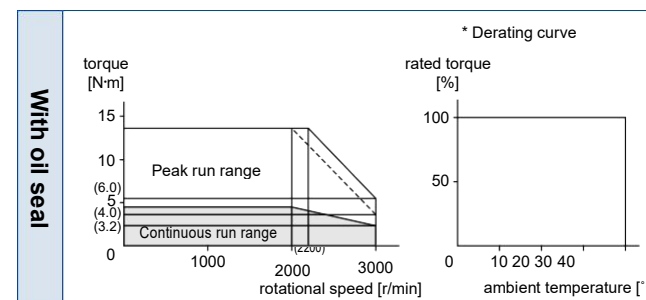
• **Permissible load** (For details, refer to P.183)

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

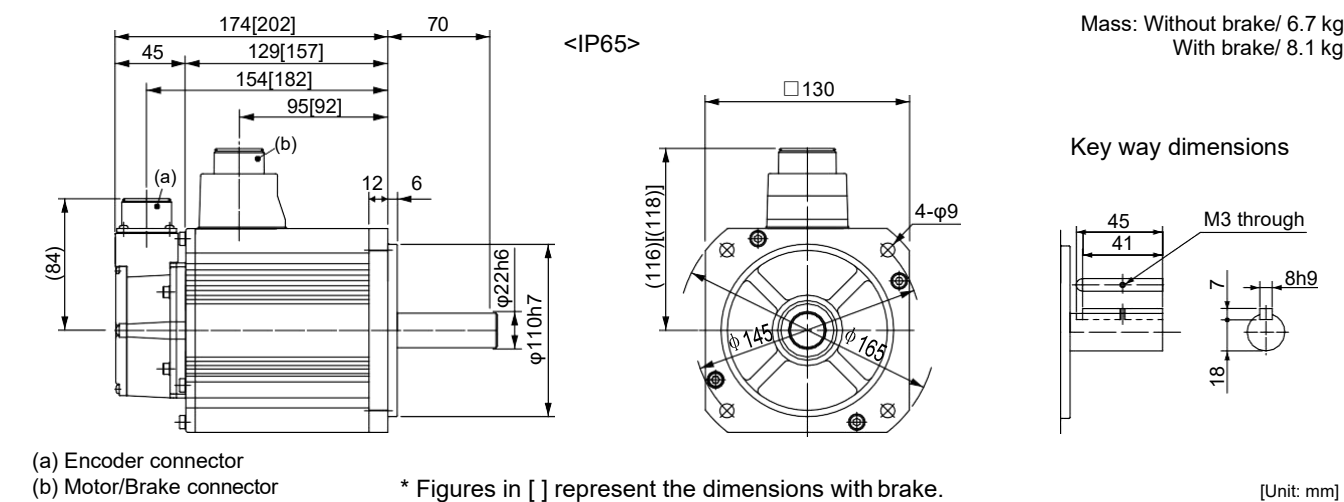
• For details of Note 1 to Note 5, refer to P.182, P.183.
• Dimensions of Driver, refer to P.44.

- *1 Motor specifications: □
- *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.>)



Dimensions



<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.

Specifications

		AC400 V	
Motor model *1	IP65	MHME154GC□	MHME154SC□
	IP67	MHME154G1□	MHME154S1□
Applicable driver *2	Model No.	MDD◇T3420	
	A5II, A5 series	MDD◇T3420E	-
	A5IE, A5E series	-	-
Frame symbol		D-frame	
Power supply capacity (kVA)	2.3		
Rated output (W)	1500		
Rated torque (N·m)	7.16		
Momentary Max. peak torque (N·m)	21.5		
Rated current (A(rms))	4.7		
Max. current (A(o-p))	20		
Regenerative brake frequency (times/min) Note1	Without option	22	
	DV0PM20048	130	
Rated rotational speed (r/min)	2000		
Max. rotational speed (r/min)	3000		
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	37.1	
	With brake	38.4	
Recommended moment of inertia ratio of the load and the rotor Note3	5 times or less		
	Rotary encoder specifications Note5	20-bit Incremental	17-bit Absolute
Resolution per single turn	1048576	131072	

• **Brake specifications** (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)	13.7 or more
Engaging time (ms)	100 or less
Releasing time (ms) Note4	50 or less
Exciting current (DC) (A)	0.79±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.

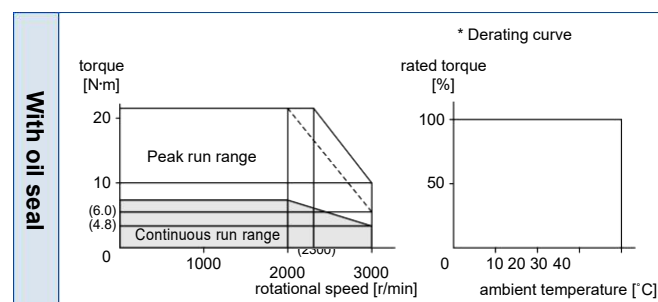
• Dimensions of Driver, refer to P.44.

*1 Motor specifications: □

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

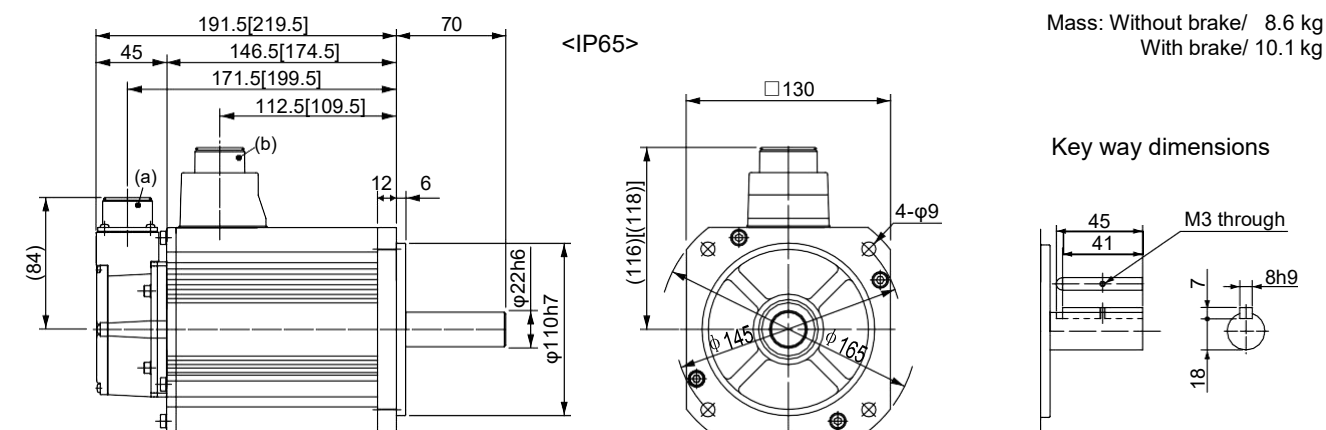
*3 ◇ in number of applicable driver represents the series. For more information about the part number, please refer to P.16.

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



Dimensions

(For IP67 motor, refer to P.140.)



Mass: Without brake/ 8.6 kg
With brake/ 10.1 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.

Specifications

		AC400 V	
Motor model *1	IP65	MHME204GC□	MHME204SC□
	IP67	MHME204G1□	MHME204S1□
Applicable driver *2	Model No.	MED◇T4430	
	A5II, A5 series	MED◇T4430E	-
	A5IE, A5E series	-	-
Frame symbol		E-frame	
Power supply capacity (kVA)	3.3		
Rated output (W)	2000		
Rated torque (N·m)	9.55		
Momentary Max. peak torque (N·m)	28.6		
Rated current (A(rms))	5.5		
Max. current (A(o-p))	24		
Regenerative brake frequency (times/min) Note1	Without option	45	
	DV0PM20048	142	
Rated rotational speed (r/min)	2000		
Max. rotational speed (r/min)	3000		
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	57.8	
	With brake	59.6	
Recommended moment of inertia ratio of the load and the rotor Note3	5 times or less		
	Rotary encoder specifications Note5	20-bit Incremental	17-bit Absolute
Resolution per single turn	1048576	131072	

• **Brake specifications** (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) Note4	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.

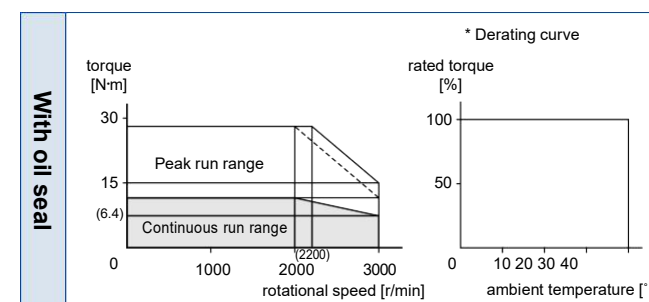
• Dimensions of Driver, refer to P.45.

*1 Motor specifications: □

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

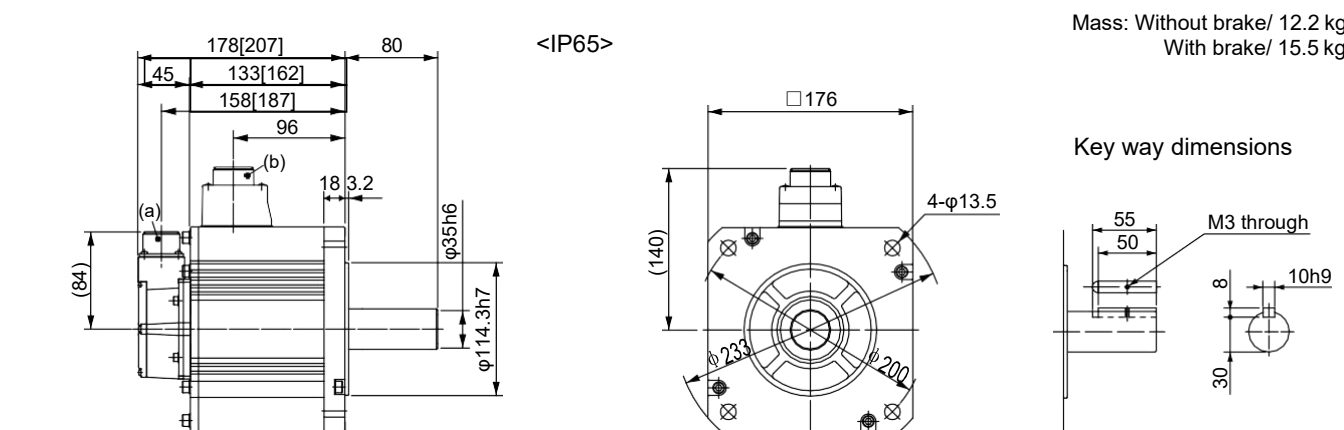
*3 ◇ in number of applicable driver represents the series. For more information about the part number, please refer to P.16.

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



Dimensions

(For IP67 motor, refer to P.140.)



Mass: Without brake/ 12.2 kg
With brake/ 15.5 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.

Specifications

		AC400 V	
Motor model *1	IP65	MHME304GC□	MHME304SC□
	IP67	MHME304G1□	MHME304S1□
Applicable driver *2	Model No.	A5II, A5 series	MFD◇T5440
		A5IIE, A5E series	MFD◇T5440E -
	Frame symbol	F-frame	
Power supply capacity (kVA)		4.5	
Rated output (W)		3000	
Rated torque (N·m)		14.3	
Momentary Max. peak torque (N·m)		43.0	
Rated current (A(rms))		8.0	
Max. current (A(o-p))		34	
Regenerative brake frequency (times/min)Note1	Without option	19	
	DVOPM20049×2	142	
Rated rotational speed (r/min)		2000	
Max. rotational speed (r/min)		3000	
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	90.5	
	With brake	92.1	
Recommended moment of inertia ratio of the load and the rotor Note3		5 times or less	
	Rotary encoder specifications Note5	20-bit Incremental	17-bit Absolute
	Resolution per single turn	1048576	131072

• **Brake specifications** (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) Note4	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

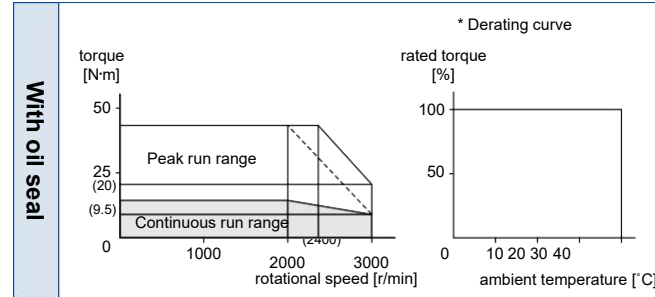
• For details of Note 1 to Note 5, refer to P.182, P.183.
• Dimensions of Driver, refer to P.45.

*1 Motor specifications: □

*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.

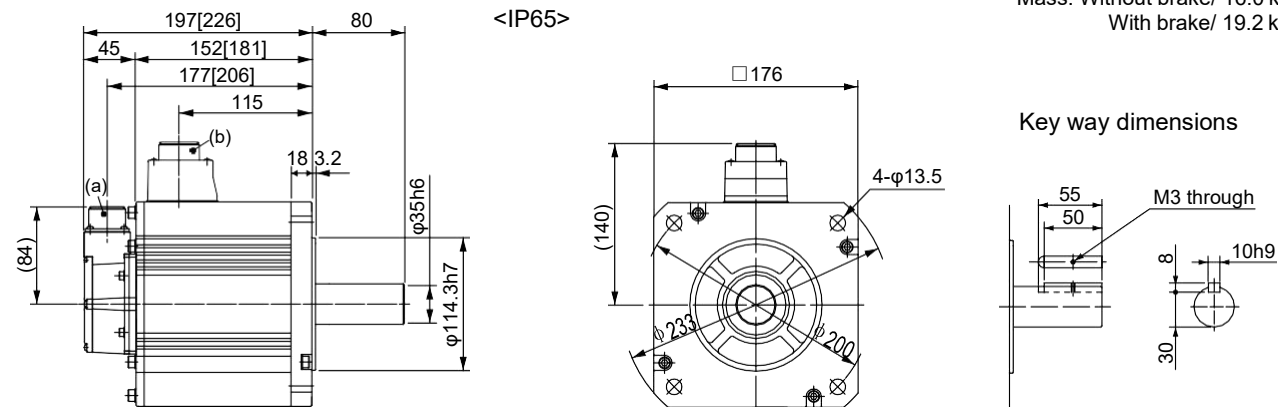
Torque characteristics (at AC400 V of power voltage <Dotted line represents the torque at 10 % less supply voltage.>)



Dimensions

(For IP67 motor, refer to P.140.)

Mass: Without brake/ 16.0 kg
With brake/ 19.2 kg



(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.

Specifications

		AC400 V	
Motor model *1	IP65	MHME404GC□	MHME404SC□
	IP67	MHME404G1□	MHME404S1□
Applicable driver *2	Model No.	A5II, A5 series	MFD◇TA464
		A5IIE, A5E series	MFD◇TA464E -
	Frame symbol	F-frame	
Power supply capacity (kVA)		6.8	
Rated output (W)		4000	
Rated torque (N·m)		19.1	
Momentary Max. peak torque (N·m)		57.3	
Rated current (A(rms))		10.5	
Max. current (A(o-p))		45	
Regenerative brake frequency (times/min)Note1	Without option	17	
	DVOPM20049×2	125	
Rated rotational speed (r/min)		2000	
Max. rotational speed (r/min)		3000	
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	112	
	With brake	114	
Recommended moment of inertia ratio of the load and the rotor Note3		5 times or less	
	Rotary encoder specifications Note5	20-bit Incremental	17-bit Absolute
	Resolution per single turn	1048576	131072

• **Brake specifications** (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) Note4	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

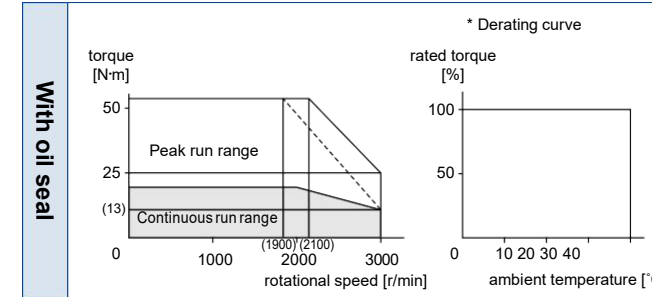
• For details of Note 1 to Note 5, refer to P.182, P.183.
• Dimensions of Driver, refer to P.45.

*1 Motor specifications: □

*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.

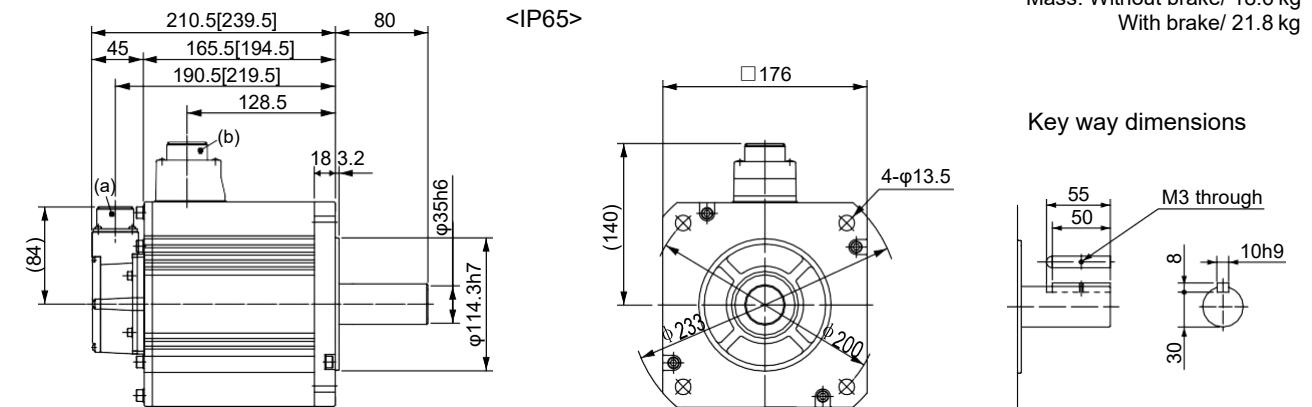
Torque characteristics (at AC400 V of power voltage <Dotted line represents the torque at 10 % less supply voltage.>)



Dimensions

(For IP67 motor, refer to P.140.)

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



(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.

Specifications

		AC400 V	
Motor model *1	IP65	MHME504GC□	MHME504SC□
	IP67	MHME504G1□	MHME504S1□
Applicable driver *2	Model No.	MFD◇TA464	
	A5II, A5 series	MFD◇TA464E	-
	A5IIE, A5E series	-	-
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) Note1	Without option	10	
	DVOPM20049×2	76	
Rated rotational speed (r/min)	2000		
Max. rotational speed (r/min)	3000		
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	162	
	With brake	164	
Recommended moment of inertia ratio of the load and the rotor Note3	5 times or less		
	Rotary encoder specifications Note5	20-bit Incremental	17-bit Absolute
Resolution per single turn	1048576	131072	

• **Brake specifications** (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) Note4	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.

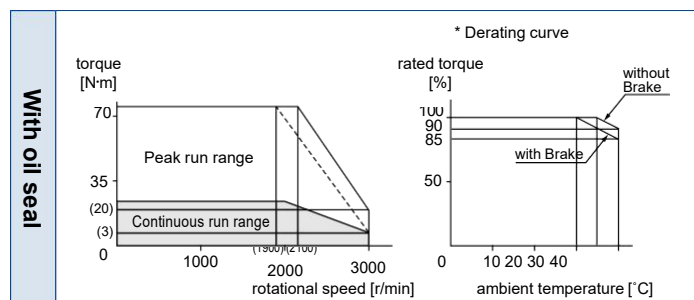
• Dimensions of Driver, refer to P.45.

*1 Motor specifications: □

*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.

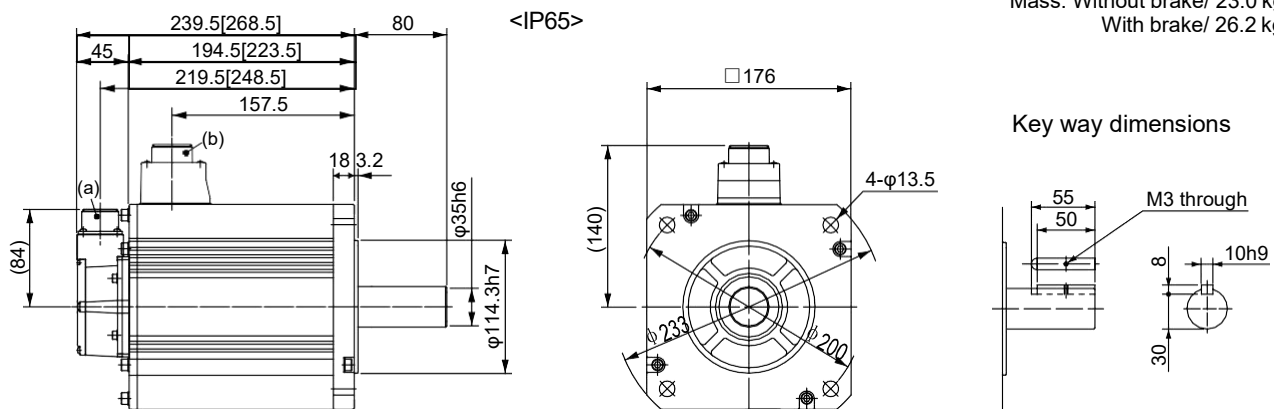
Torque characteristics (at AC400 V of power voltage <Dotted line represents the torque at 10% less supply voltage.>)



Dimensions

(For IP67 motor, refer to P.140.)

Mass: Without brake/ 23.0 kg
With brake/ 26.2 kg



(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.

Specifications

		AC400 V	
Motor model *1	IP65	-	-
	IP67	MHME754G1□	MHME754S1□
Applicable driver *2	Model No.	MGD◇TB4A2	
	A5II, A5 series	-	-
	A5IIE, A5E series	-	-
Frame symbol		G-frame	
Power supply capacity (kVA)	9.0		
Rated output (W)	7500		
Rated torque (N·m)	47.8		
Momentary Max. peak torque (N·m)	119		
Rated current (A(rms))	22.0		
Max. current (A(o-p))	83		
Regenerative brake frequency (times/min) Note1	Without option	No limit Note2	
	DVOPM20049×3	No limit Note2	
Rated rotational speed (r/min)	1500		
Max. rotational speed (r/min)	3000		
Moment of inertia of rotor (×10 ⁻⁴ kg·m ²)	Without brake	273	
	With brake	279	
Recommended moment of inertia ratio of the load and the rotor Note3	5 times or less		
	Rotary encoder specifications Note5	20-bit Incremental	17-bit Absolute
Resolution per single turn	1048576	131072	

• **Brake specifications** (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)	58.8 or more
Engaging time (ms)	150 or less
Releasing time (ms) Note4	50 or less
Exciting current (DC) (A)	1.4±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)	2058
	Thrust load A-direction (N)	980
	Thrust load B-direction (N)	1176
During operation	Radial load P-direction (N)	1176
	Thrust load A, B-direction (N)	490

• For details of Note 1 to Note 5, refer to P.182, P.183.

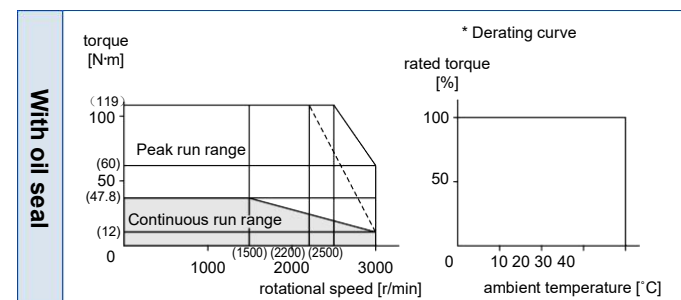
• Dimensions of Driver, refer to P.46.

*1 Motor specifications: □

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

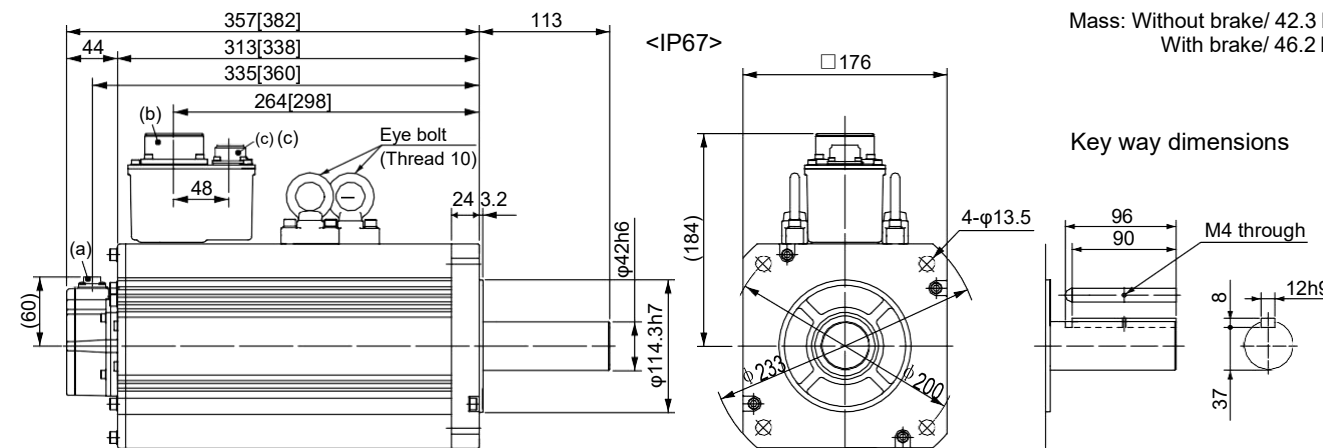
*3 ◇ in number of applicable driver represents the series. For more information about the part number, please refer to P.16.

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



Dimensions

Mass: Without brake/ 42.3 kg
With brake/ 46.2 kg



(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.