		AC100 V			
Motor model	IP65		MSMD5AZG1□	MSMD5AZS1□	
Motor model *1		IP67		-	-
	Model	odel A5 II , A5 series		MAD ◇T110 5	
Applicable driver *2	No.	A5 II E, A5	E series	MAD ⇔T1105E	_
unver	Fr	ame symb	ool	A-fr	ame
Power supply	capacit	у	(kVA)	0	.4
Rated output			(W)	5	0
Rated torque			(N·m)	0.	16
Momentary M	ax. peal	k torque	(N·m)	0.48	
Rated current		(A	A(rms))	1.1	
Max. current		(,	A(o-p))	4.7	
Regenerative brake Without option		No lim	it Note)2		
frequency (times/r	min)Note)1	DV0P4280		No limit Note)2	
Rated rotation	al spee	d	(r/min)	3000	
Max. rotationa	l speed		(r/min)	5000	
Moment of ine	ertia	Without	brake	0.025	
of rotor (×10 ⁻⁴	kg·m²)	With b	rake	0.027	
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		le 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.

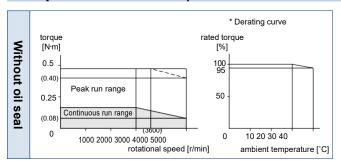
Static friction torque (N·m)	0.29 or more
Engaging time (ms)	35 or less
Releasing time (ms) Note)4	20 or less
Exciting current (DC) (A)	0.3
Releasing voltage (DC) (V)	1 or more
Exciting voltage (DC) (V)	24±1.2

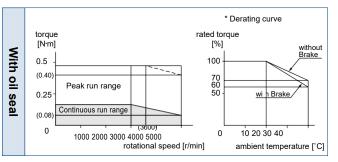
• Permissible load (For details, refer to P.183)

	,	,
	Radial load P-direction (N)	147
During assembly	Thrust load A-direction (N)	88
doscinbly	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 \(\times \) 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. >)

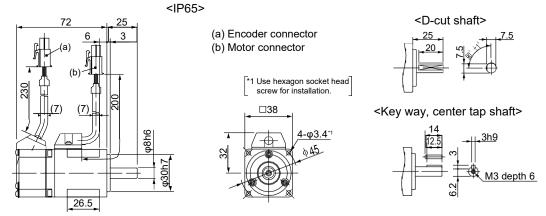




[Unit: mm]

Dimensions

<Without Brake> Mass: 0.32 kg



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

<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.

49

200 V MSMD 50 W [Low inertia, Small capacity]

AC200 V

MSMD5AZG1□ MSMD5AZS1□

MAD**◇**T1505

A-frame

0.5

50

0.16

0.48

1.1 4.7

No limit Note)2

No limit Note)2

3000

5000

0.025

0.027

30 times or less

20-bit

Incremental

1048576

MAD♦T1505E

Specifications

Power supply capacity

Momentary Max. peak torque

Motor model

Applicable

Rated output

Rated torque

Rated current

Max. current

Regenerative brake frequency (times/min)Note)1

Rated rotational speed

Max. rotational speed

of rotor ($\times 10^{-4}$ kg·m²)

Recommended moment of inertia

ratio of the load and the rotor

Rotary encoder specifications

Moment of inertia

driver

IP65

IP67

Model

No.

A5II, A5 series

A5IIE, A5E series

(kVA)

(N·m)

(N·m)

(A(rms))

(A(o-p)) Without option

(r/min)

(r/min)

Note)5

DV0P4281

Without brake

With brake

Resolution per single turn

(W)

Brake specifications (For details This brake will be released when it is a Do not use this for braking the motor in	s, refer to P.183 energized. n motion.
Static friction torque (N·m)	0.29 or more
Engaging time (ms)	35 or less

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

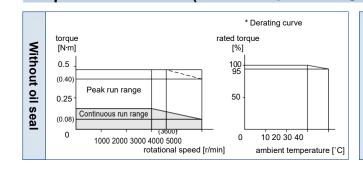
- For details of Note 1 to Note 5, refer to P.182, P.183.
- Dimensions of Driver, refer to P.42.
- *1 Motor specifications: □
- *2 The product that the end of driver model designation has "E" is "Position control type". Detail of model designation, refer to P.16.
- *3 ♦ in number of applicable driver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

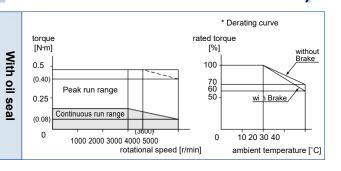
Torque characteristics (at AC200 V of power voltage < Dotted line represents the torque at 10 % less supply voltage. >)

17-bit

Absolute

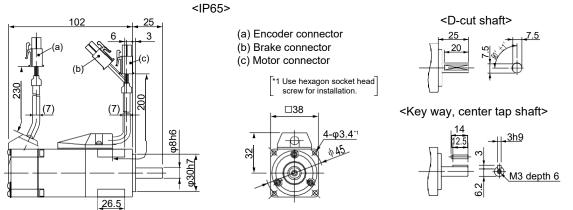
131072





Dimensions

<With Brake>



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

<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.

Mass: 0.53 kg

			AC1	00 V
Matanasadal	IP65		MSMD011G1□	MSMD011S1□
Motor model *1		IP67	-	-
A 12 1.1	Model	A5 II , A5 series	MAD ◇ T1107	
Applicable driver *2	No.	A5IIE, A5E series	MAD ⇔T1107E	-
unver	Fr	rame symbol	A-fr	ame
Power supply	capacit	y (kVA)	0	.4
Rated output		(W)	10	00
Rated torque		(N·m)	0.32	
Momentary Ma	ax. peal	k torque (N·m)	0.95	
Rated current		(A(rms))	1.7	
Max. current (A(o-p))		7	7.2	
Regenerative	brake	Without option	No limit Note)2	
frequency (times/r	min)Note)1	DV0P4280	No limit Note)2	
Rated rotation	al spee	d (r/min)	3000	
Max. rotationa	l speed	(r/min)	5000	
Moment of ine	rtia	Without brake	0.051	
of rotor (×10 ⁻⁴	kg·m²)	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.

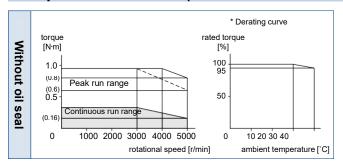
Static friction torque (N·m)	0.29 or more
Engaging time (ms)	35 or less
Releasing time (ms) Note)4	20 or less
Exciting current (DC) (A)	0.3
Releasing voltage (DC) (V)	1 or more
Exciting voltage (DC) (V)	24±1.2

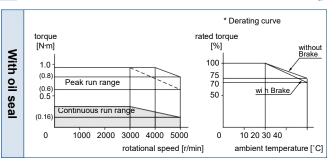
Permissible load (For details, refer to P.183)

. •	i diminocibio idua (i ai ariama, i ai a i i i i i i				
. .	Radial load P-direction (N)	147			
During assembly	Thrust load A-direction (N)	88			
	Thrust load B-direction (N)	117.6			
During	Radial load P-direction (N)	68.6			
operation	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 \(\times \) 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. >)

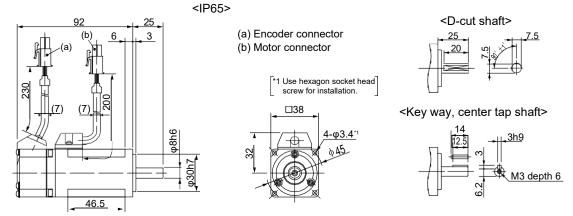




[Unit: mm]

Dimensions

<Without Brake> Mass: 0.47 kg



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

<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.

51

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

Specifications

			AC2	00 V	
Motor mode	-1	IP65		MSMD012G1□	MSMD012S1□
	ĐI ÷1	IP67		-	-
Annlinabla	Mode	A5 II , A5	series	MAD ♦ T1505	
Applicable driver *	No.	A5 II E, A5	5E series	MAD ◇T1505E	-
divoi	F	rame sym	bol	A-fr	ame
Power supp	oly capaci	ty	(kVA)	0	.5
Rated outpu	ut		(W)	10	00
Rated torqu	ie		(N·m)	0.	32
Momentary	Max. pea	ak torque	(N·m)	0.95	
Rated curre	nt	(A(rms))	1.1	
Max. current (A(o-p))		(A(o-p))	4.7		
Regenerativ	/e brake	Without	option	No lim	t Note)2
frequency (time	es/min)Note)	DV0P4281		No limit Note)2	
Rated rotati	onal spe	ed	(r/min) 3000		00
Max. rotatio	nal spee	d	(r/min)	50	00
Moment of i	inertia	Without	t brake	0.051	
of rotor (×10 ⁻⁴ kg·m ²)		With b	orake	0.054	
Recommended moment of inertia ratio of the load and the rotor Note)3		30 times	s or less		
Rotary encoder specification		ifications	Note)5	20-bit Incremental	17-bit Absolute
Resolution per		on per sin	ale 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.

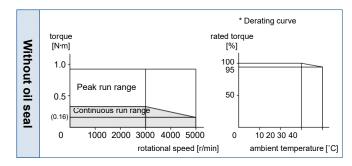
\	,
Static friction torque (N·m)	0.29 or more
Engaging time (ms)	35 or less
Releasing time (ms) Note)4	20 or less
Exciting current (DC) (A)	0.3
Releasing voltage (DC) (V)	1 or more
Exciting voltage (DC) (V)	24±1.2

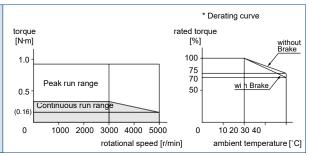
• Permissible load (For details, refer to P.183)

Describe	Radial load P-direction (N)	147
During assembly	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 \iff 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)





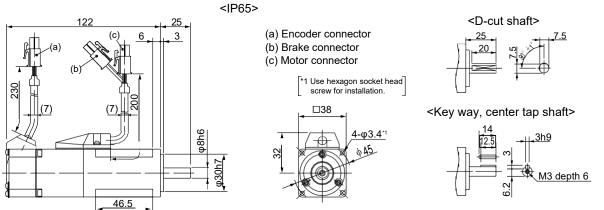
Dimensions

<With Brake> Mass: 0.68 kg

With

<u>o</u>.

seal



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

A5 Family

Specifications

			AC1	00 V
Motor model	IP65		MSMD021G1□	MSMD021S1□
*1		IP67	-	-
	Model	A5 II , A5 series	MBD ⊘ T2110	
Applicable *2	No.	A5IIE, A5E series	MBD ⊘T2110E	-
diivoi	Fr	rame symbol	B-fr	ame
Power supply	capacit	y (kVA)	0	.5
Rated output		(W)	20	00
Rated torque		(N·m)	0.	64
Momentary Ma	ax. peal	k torque (N·m)	1.91	
Rated current		(A(rms))	2.5	
Max. current (A(o-p))		10.6		
Regenerative	brake	Without option	No limit Note)2	
frequency (times/r	nin)Note)1	DV0P4283	No limit Note)2	
Rated rotation	al spee	d (r/min)	3000	
Max. rotationa	l speed	(r/min)	5000	
Moment of ine	rtia	Without brake	0.14	
of rotor ($\times 10^{-4}$	kg·m²)	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.

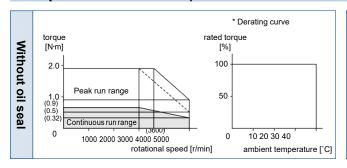
1.27 or more
50 or less
15 or less
0.36
1 or more
24±1.2

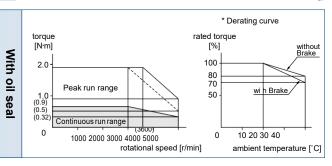
• Permissible load (For details, refer to P.183)

	,	,
	Radial load P-direction (N)	392
During assembly	Thrust load A-direction (N)	147
uooombiy	Thrust load B-direction (N)	196
During	Radial load P-direction (N)	245
operation	Thrust load A, B-direction (N)	98

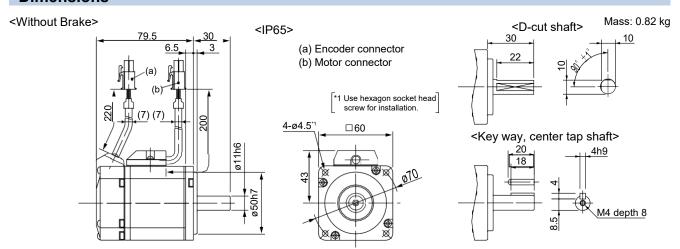
- For details of Note 1 to Note 5, refer to P.182, P.183.
- Dimensions of Driver, refer to P.42.
- *1 Motor specifications:
- *2 The product that the end of driver model designation has "E" is "Position control type". Detail of model designation, refer to P.16.
- *3 \(\times \) in number of applicable 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.

53

<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

				AC2	00 V
Motor mode		IP65		MSMD022G1□	MSMD022S1□
	:1	IP67		-	_
Annliaghla	Model	A5 II , A5	series	ies MAD�T1507	
Applicable driver *	No.	A5 II E, A5	E series	MAD ⇔T1507E	_
dilvoi	Fr	ame syml	bol	A-fr	ame
Power supp	ly capacit	y	(kVA)	0.	.5
Rated outpu	ut		(W)	20	00
Rated torqu	е		(N·m)	0.	64
Momentary	Max. peal	torque	(N·m)	1.91	
Rated curre	nt	(/	۹(rms))	1.6	
Max. curren	Max. current (A(o-p))			6	.9
Regenerativ	Regenerative brake		option	No limit Note)2	
frequency (time	es/min)Note)1	DV0P4283		No limit Note)2	
Rated rotati	onal spee	d	(r/min)	3000	
Max. rotatio	nal speed		(r/min)	5000	
Moment of i	nertia	Without	brake	0.	14
of rotor (×10	of rotor (×10 ⁻⁴ kg·m ²)		rake	0.16	
Recommended moment of inertia ratio of the load and the rotor Note)3			30 times	s or less	
Rotary encoder specifications Note)5		20-bit Incremental	17-bit Absolute		
	Resolution	n per sing	gle 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.

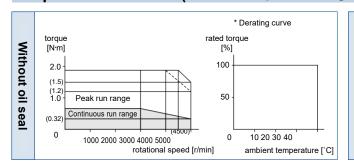
Static friction torque (N·m)	1.27 or more
Engaging time (ms)	50 or less
Releasing time (ms) Note)4	15 or less
Exciting current (DC) (A)	0.36
Releasing voltage (DC) (V)	1 or more
Exciting voltage (DC) (V)	24±1.2

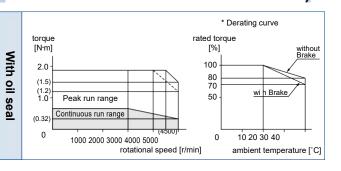
• Permissible load (For details, refer to P.183)

	Radial load P-direction (N)	392
During assembly	Thrust load A-direction (N)	147
	Thrust load B-direction (N)	196
During	Radial load P-direction (N)	245
operation	Thrust load A, B-direction (N)	98

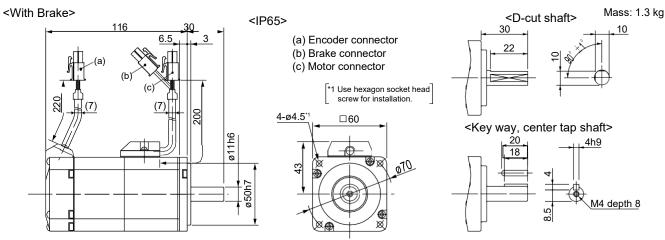
- For details of Note 1 to Note 5, refer to P.182, P.183.
- Dimensions of Driver, refer to P.42.
- *1 Motor specifications: □
- *2 The product that the end of driver model designation has "E" is "Position control type". Detail of model designation, refer to P.16.
- *3 \iff in number of applicable driver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

54

			AC1	00 V	
Motor model	IP65		MSMD041G1□	MSMD041S1□	
*1		IP67	-	-	
	Model	A5 II , A5 series	MCD ⊘T3120		
Applicable driver *2	No.	A5IIE, A5E series	MCD ◇T3120E	-	
dilvei	Fr	ame symbol	C-fr	ame	
Power supply	capacit	y (kVA)	0	.9	
Rated output		(W)	40	00	
Rated torque		(N·m)	1	.3	
Momentary Ma	ax. peal	k torque (N⋅m)	3.8		
Rated current		(A(rms))	4.6		
Max. current		(A(o-p))	19	19.5	
Regenerative	brake	Without option	No limit Note)2		
frequency (times/min)Note)1		DV0P4282	No limit Note)2		
Rated rotation	al spee	d (r/min)	3000		
Max. rotationa	l speed	(r/min)	5000		
Moment of ine	ertia	Without brake	0.26		
of rotor (×10 ⁻⁴	kg·m²)	With brake	0.28		
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.

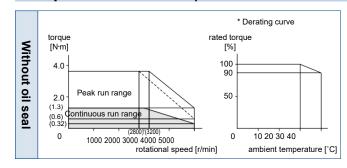
Static friction torque (N·m)	1.27 or more
Engaging time (ms)	50 or less
Releasing time (ms) Note)4	15 or less
Exciting current (DC) (A)	0.36
Releasing voltage (DC) (V)	1 or more
Exciting voltage (DC) (V)	24±1.2

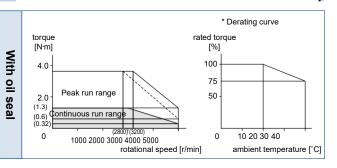
• Permissible load (For details, refer to P.183)

	,	,
	Radial load P-direction (N)	392
During assembly	Thrust load A-direction (N)	147
uooombiy	Thrust load B-direction (N)	196
During	Radial load P-direction (N)	245
operation	Thrust load A, B-direction (N)	98

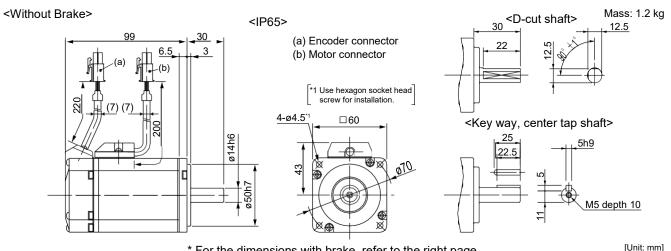
- For details of Note 1 to Note 5, refer to P.182, P.183.
- Dimensions of Driver, refer to P.43.
- *1 Motor specifications:
- *2 The product that the end of driver model designation has "E" is "Position control type". Detail of model designation, refer to P.16.
- *3 \(\times \) in number of applicable 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.

<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

200 V MSMD 400 W [Low inertia, Small capacity]

				AC2	00 V
Matanaaal	-1	IP65		MSMD042G1□	MSMD042S1□
Motor mode	ÐΙ ∗1	IP67		-	_
A I' I- I -	Model	lel A5 II , A5 series		MBD ⇔T2510	
Applicable driver	No.	A5 II E, A5	E series	MBD ◇T2510E	-
unver	F	rame sym	bol	B-fra	ame
Power supp	oly capacit	ty	(kVA)	0	.9
Rated outpo	ut		(W)	40	00
Rated torqu	ıe		(N·m)	1.	.3
Momentary	Max. pea	k torque	(N·m)	3.8	
Rated curre	ent	(A(rms))	2.6	
Max. current (A(o-p))		11	11.0		
Regenerative brake		Without	option	No limit Note)2	
frequency (tim	es/min)Note)1	DV0P	No limit Note)2		t Note)2
Rated rotat	ional spee	ed .	(r/min)	3000	
Max. rotation	nal speed	i	(r/min)	5000	
Moment of		Without	t brake	0.:	26
of rotor (×10 ⁻⁴ kg·m ²)		With b	orake	0.28	
Recommended moment of inertia ratio of the load and the rotor Note)3			30 times	s or less	
Rotary encoder specifications Note)5		Note)5	20-bit Incremental	17-bit Absolute	
	Resolution per single			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.

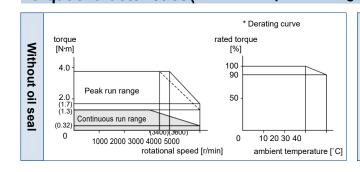
,	,
Static friction torque (N·m)	1.27 or more
Engaging time (ms)	50 or less
Releasing time (ms) Note)4	15 or less
Exciting current (DC) (A)	0.36
Releasing voltage (DC) (V)	1 or more
Exciting voltage (DC) (V)	24±1.2

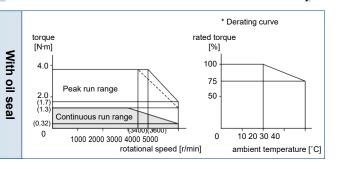
• Permissible load (For details, refer to P.183)

During assembly	Radial load P-direction (N)	392
	Thrust load A-direction (N)	147
,	Thrust load B-direction (N)	196
During	Radial load P-direction (N)	245
operation	Thrust load A, B-direction (N)	98

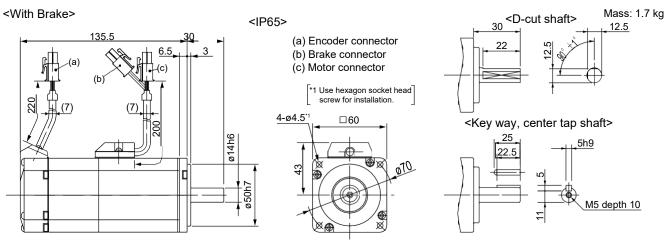
- For details of Note 1 to Note 5, refer to P.182, P.183.
- Dimensions of Driver, refer to P.42.
- *1 Motor specifications: □
- *2 The product that the end of driver model designation has "E" is "Position control type". Detail of model designation, refer to P.16.
- *3 \iff in number of applicable driver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

200 V MSMD 750 W [Low inertia, Small capacity]

Specifications

			AC200 V		
		IP65	MSMD082G1□	MSMD082S1□	
Motor model *1		IP67	-	-	
A 15 1- 1	Model	A5 II , A5 series	MCD ⇔ T3520		
Applicable *2	No.	A5IIE, A5E series	MCD ⇔T3520E	-	
unver	Fr	rame symbol	C-fr	ame	
Power supply	capacit	y (kVA)	1	.3	
Rated output		(W)	7:	50	
Rated torque		(N·m)	2	.4	
Momentary Ma	ax. peal	k torque (N·m)	7.1		
Rated current		(A(rms))	4.0		
Max. current (A(o-p))			17	7.0	
Regenerative brake frequency (times/min)Note)1 Without option DV0P4283		Without option	No lim	it Note)2	
		DV0P4283 No limit Note)2		it Note)2	
Rated rotation	al spee	d (r/min)	3000		
Max. rotationa	l speed	(r/min)	4500		
Moment of ine	rtia	Without brake	0.87		
of rotor (×10 ⁻⁴	kg·m²)	With brake	0.97		
Recommended moment of inertia ratio of the load and the rotor Note)3			20 times or less		
Rotary encode	Rotary encoder specifications Note)5		20-bit Incremental	17-bit Absolute	
R	esolutio	on 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.

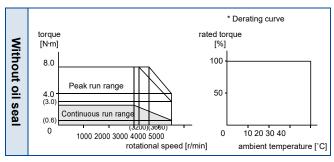
Static friction torque (N·m)	2.45 or more
Engaging time (ms)	70 or less
Releasing time (ms) Note)4	20 or less
Exciting current (DC) (A)	0.42
Releasing voltage (DC) (V)	1 or more
Exciting voltage (DC) (V)	24±1.2

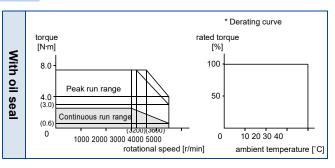
• Permissible load (For details, refer to P.183)

During assembly During operation	Radial load P-direction (N)	686
	Thrust load A-direction (N)	294
	Thrust load B-direction (N)	392
	Radial load P-direction (N)	392
	Thrust load A, B-direction (N)	147

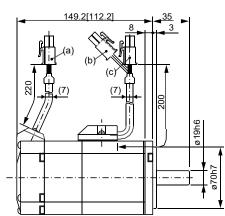
- For details of Note 1 to Note 5, refer to P.182, P.183.
- Dimensions of Driver, refer to P.43.
- *1 Motor specifications: □
- *2 The product that the end of driver model designation has "E" is "Position control type". Detail of model designation, refer to P.16.
- *3 \diamondsuit in number of applicable 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) Brake connector (c) Motor connector

<IP65>

*1 Use hexagon socket head screw for installation.

4-Ø6**

1 80

Mass: Without brake/ 2.3 kg

<Key way, center tap shaft>

25

22

0

M5 depth 10

* 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

			AC100 V		
Matanasadal	IP65		MHMD021G1□	MHMD021S1□	
Motor model *1		IP67		-	-
Annliachla	Model	A5 II , A5 series		MBD ◇T2110	
Applicable *2	No.	A5 II E, A5	5E series	MBD ⊘T2110E	-
unvei	Fr	ame sym	bol	B-frame	
Power supply	capacit	у	(kVA)	0	.5
Rated output			(W)	20	00
Rated torque			(N·m)	0.64	
Momentary Ma	ax. peal	k 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 rotation	al spee	d	(r/min)	3000	
Max. rotationa	l speed		(r/min)	5000	
Moment of ine	ertia	Without	brake	0.42	
of rotor (×10 ⁻⁴	kg·m²)	With b	orake	0.45	
Recommended moment of inertia ratio of the load and the rotor Note)3			30 times or less		
Rotary encoder specifications Note)5		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.

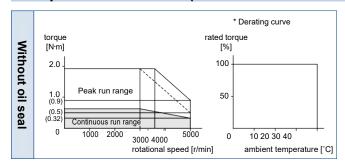
1.27 or more
50 or less
15 or less
0.36
1 or more
24±1.2

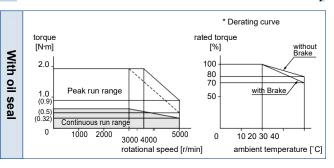
• Permissible load (For details, refer to P.183)

. •	,	/
	Radial load P-direction (N)	392
During assembly	Thrust load A-direction (N)	147
	Thrust load B-direction (N)	196
During	Radial load P-direction (N)	245
operation	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 \(\times \) 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: 0.96 kg <IP65> <D-cut shaft> (a) Encoder connector (b) Motor connector 1 Use hexagon socket head <Key way, center tap shaft>

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

<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

			AC2	00 V	
Natau wa a da	-1	IP65		MHMD022G1□	MHMD022S1□
Motor mode	⊝ 1	IP67		-	-
A II I. I .	Model	A5 II , A5 series		MAD ◇ T1507	
Applicable driver	No.	A5IIE, A5E series		MAD ◇T1507E	-
dilvei	Fr	ame sym	bol	A-fr	ame
Power supp	ly capacit	y	(kVA)	0	.5
Rated outpu	ut		(W)	20	00
Rated torqu	ie		(N·m)	0.	64
Momentary	Max. peal	k torque	(N·m)	1.91	
Rated current (A(rms))			1.6		
Max. current (A(o-p))			6	.9	
Regenerative brake		Without	option	No limit Note)2	
frequency (tim	es/min)Note)1	DV0P4283		No limit Note)2	
Rated rotati	onal spee	d	(r/min)	3000	
Max. rotation	nal speed		(r/min)	5000	
Moment of	inertia	Without	brake	0.42	
of rotor (×10	O ⁻⁴ kg·m²)	With b	rake	0.45	
Recommended moment of inertia ratio of the load and the rotor Note)3			30 times	s 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)

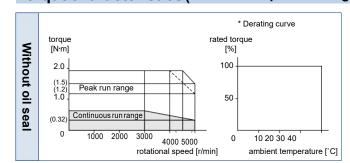
Danis	Radial load P-direction (N)	392
During assembly	Thrust load A-direction (N)	147
	Thrust load B-direction (N)	196
During	Radial load P-direction (N)	245
operation	Thrust load A, B-direction (N)	98

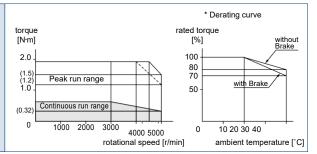
- For details of Note 1 to Note 5, refer to P.182, P.183.
- Dimensions of Driver, refer to P.42.
- *1 Motor specifications: □
- *2 The product that the end of driver model designation has "E" is "Position control type". Detail of model designation, refer to P.16.
- *3 \iff in number of applicable driver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

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

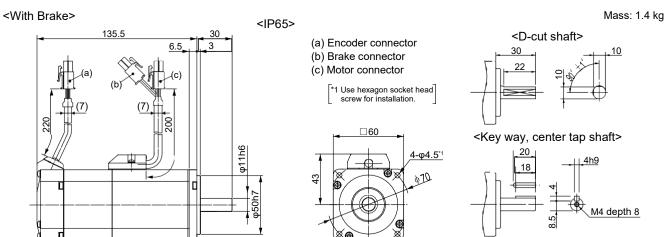
With oil

seal





Dimensions



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

			AC100 V	
Motor model	IP65		MHMD041G1□	MHMD041S1□
*1		IP67	-	-
	Model	A5 II , A5 series	MCD ⊘T3120	
Applicable *2	No.	A5IIE, A5E series	MCD ⊘T3120E	-
divei	Fr	rame symbol	C-fr	ame
Power supply	capacit	y (kVA)	0	.9
Rated output		(W)	40	00
Rated torque		(N·m)	1	.3
Momentary Ma	ax. peal	k 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 rotation	al spee	d (r/min)	3000	
Max. rotationa	l speed	(r/min)	5000	
Moment of ine	rtia	Without brake	0.67	
of rotor (×10 ⁻⁴	kg·m²)	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.

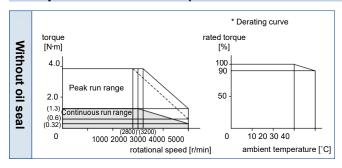
1.27 or more
50 or less
15 or less
0.36
1 or more
24±1.2

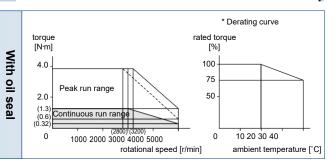
• Permissible load (For details, refer to P.183)

	,	,
Desire	Radial load P-direction (N)	392
During assembly	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 \(\times \) 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> (a) Encoder connector (b) Motor connector *1 Use hexagon socket head <Key way, center tap shaft>

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

Mass: 1.4 kg

<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

			AC2	00 V		
Makananalah		IP65		MHMD042G1□	MHMD042S1□	
Motor mode	ei * 1		IP67		-	-
	Mode		Model A5II, A5 series		MBD ⊘ T2510	
Applicable driver	*2	No.	A5 II E, A5	E series	MBD ◇T2510E	-
diivei		Fr	ame sym	bol	B-fr	ame
Power supp	oly d	capacit	y	(kVA)	0	.9
Rated outpo	ut			(W)	40	00
Rated torqu	ıe			(N·m)	1	.3
Momentary	Ма	x. peal	torque	(N·m)	3.8	
Rated curre	ent		(A(rms))	2.6	
Max. currer	nt		((A(o-p))	11	.0
Regenerati	ve b	orake	Without	option	No limit Note)2	
frequency (tim	nes/m	in)Note)1	DV0P4283		No limit Note)2	
Rated rotat	iona	al spee	d	(r/min)	3000	
Max. rotation	onal	speed		(r/min)	5000	
Moment of	iner	tia	Without	brake	0.	67
of rotor (×10 ⁻⁴ kg·m ²) With bra			rake	0.70		
Recommended moment of inertia ratio of the load and the rotor Note)3			30 times	s or less		
Rotary encoder specifications Note)5		Note)5	20-bit Incremental	17-bit Absolute		
Resolution per single turn			1048576	131072		

200 V MHMD 400 W [High inertia, Small capacity]

• 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.

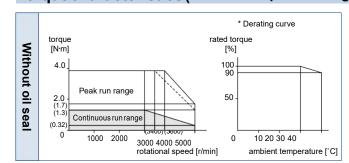
,	,
Static friction torque (N·m)	1.27 or more
Engaging time (ms)	50 or less
Releasing time (ms) Note)4	15 or less
Exciting current (DC) (A)	0.36
Releasing voltage (DC) (V)	1 or more
Exciting voltage (DC) (V)	24±1.2

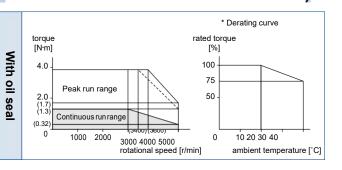
• Permissible load (For details, refer to P.183)

D	Radial load P-direction (N)	392
During assembly	Thrust load A-direction (N)	147
	Thrust load B-direction (N)	196
During	Radial load P-direction (N)	245
operation	Thrust load A, B-direction (N)	98

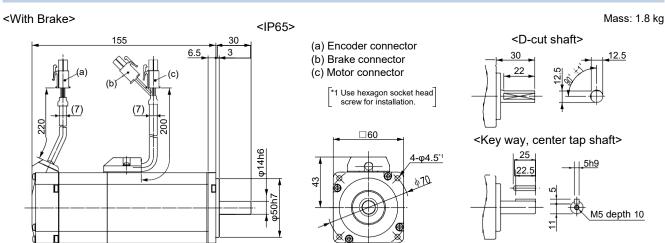
- For details of Note 1 to Note 5, refer to P.182, P.183.
- Dimensions of Driver, refer to P.42.
- *1 Motor specifications: □
- *2 The product that the end of driver model designation has "E" is "Position control type". Detail of model designation, refer to P.16.
- *3 \iff in number of applicable driver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

			AC200 V		
		IP65	MHMD082G1□	MHMD082S1□	
Motor model *1		IP67	-	-	
A	Model	A5 II , A5 series	MCD<	T3520	
Applicable *2	No.	A5IIE, A5E series	MCD ⇔T3520E	-	
dilvei	Fr	ame symbol	C-fr	ame	
Power supply	capacit	y (kVA)	1	.3	
Rated output		(W)	75	50	
Rated torque		(N·m)	2	.4	
Momentary Ma	ax. peal	k torque (N⋅m)	7.1		
Rated current		(A(rms))	4.0		
Max. current		(A(o-p))	17	7.0	
Regenerative brake Without option			No lim	it Note)2	
frequency (times/min)Note)1		DV0P4283	No limit Note)2		
Rated rotation	al spee	d (r/min)	30	00	
Max. rotationa	ıl speed	(r/min)	4500		
Moment of ine	ertia	Without brake	1.51		
of rotor (×10 ⁻⁴	kg·m²)	With brake	1.61		
Recommended moment of inertia ratio of the load and the rotor Note)3			20 times or less		
Rotary encode	Rotary encoder specifications Note)5			17-bit Absolute	
R	Resolution per single turn			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.

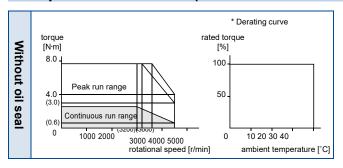
Static friction torque (N·m)	2.45 or more
Engaging time (ms)	70 or less
Releasing time (ms) Note)4	20 or less
Exciting current (DC) (A)	0.42
Releasing voltage (DC) (V)	1 or more
Exciting voltage (DC) (V)	24±1.2

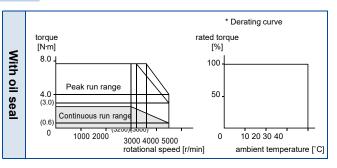
• Permissible load (For details, refer to P.183)

During assembly During operation	Radial load P-direction (N)	686
	Thrust load A-direction (N)	294
	Thrust load B-direction (N)	392
	Radial load P-direction (N)	392
	Thrust load A, B-direction (N)	147

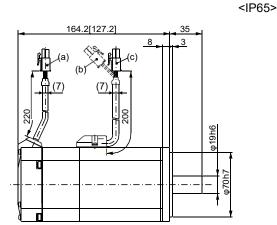
- For details of Note 1 to Note 5, refer to P.182, P.183.
- Dimensions of Driver, refer to P.43.
- *1 Motor specifications:
- *2 The product that the end of driver model designation has "E" is "Position control type". Detail of model designation, refer to P.16.
- *3 \diamondsuit in number of applicable 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) Brake connector

(c) Motor connector

*1 Use hexagon socket head screw for installation.

Key way, center tap shaft>
25
22
6h9
M5 depth 10

* Figures in [] represent the dimensions without brake.

[Unit: mm]

MEMO

			AC100 V		
		IP65	-	-	
Motor model *1		IP67	MSME5AZG1□	MSME5AZS1□	
	Model	A5II, A5 series	MAD ♦ T1105		
Applicable driver *2	No.	A5IIE, A5E series	MAD ◇T1105 E	-	
unver	Fr	ame symbol	A-fra	ame	
Power supply	capacit	y (kVA)	0	.4	
Rated output		(W)	5	0	
Rated torque		(N·m)	0.16		
Momentary Ma	ax. peal	k torque (N·m)	0.48		
Rated current		(A(rms))	1.1		
Max. current (A(o-p))			4.	.7	
Regenerative	brake	Without option	No limi	t Note)2	
frequency (times/r	frequency (times/min)Note)1		No limit Note)2		
Rated rotation	al spee	d (r/min)	3000		
Max. rotationa	l speed	(r/min)	6000		
Moment of ine	rtia	Without brake	0.025		
of rotor (×10 ⁻⁴	kg·m²)	With brake	0.027		
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	
R	Resolution per single turn			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.

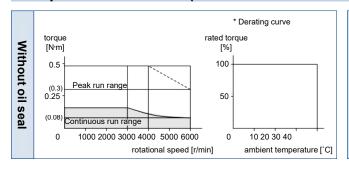
Static friction torque (N·m)	0.29 or more
Engaging time (ms)	35 or less
Releasing time (ms) Note)4	20 or less
Exciting current (DC) (A)	0.3
Releasing voltage (DC) (V)	1 or more
Exciting voltage (DC) (V)	24±1.2

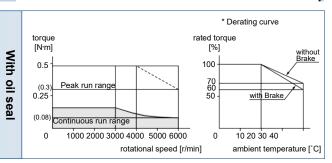
• Permissible load (For details, refer to P.183)

	,	,
D	Radial load P-direction (N)	147
During assembly	Thrust load A-direction (N)	88
	Thrust load B-direction (N)	117.6
During	Radial load P-direction (N)	68.6
operation	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 \(\times \) 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. >)

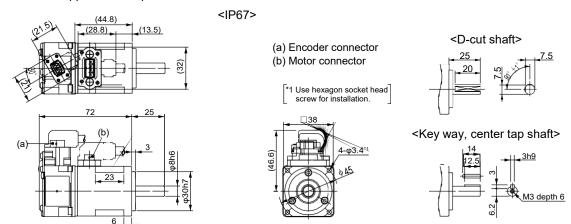




Dimensions < In Case of Without Brake, Cable direction to output shaft.>

· 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.

200 V MSME 50 W [Low inertia, Small capacity]

Specifications

				AC2	00 V
Motor model	IP65			-	-
*1		IP67		MSME5AZG1□	MSME5AZS1
Annliaghla	Model	A5 II , A5 series		MAD \diamondsuit T1505	
Applicable driver *2	No.	A5 II E, A5	E series	MAD ◇T1505E	-
divoi	Fi	ame sym	bol	A-fr	ame
Power supply	capacit	y	(kVA)	0	.5
Rated output			(W)	5	0
Rated torque			(N·m)	0.	16
Momentary M	ax. pea	k torque	(N·m)	0.48	
Rated current		(A(rms))	1.1	
Max. current (A(o-p))			4	.7	
Regenerative	brake	Without	option	No lim	t Note)2
frequency (times/	min)Note)1	DV0P4280		No limit Note)2	
Rated rotation	al spee	d	(r/min)	3000	
Max. rotationa	al speed		(r/min)	6000	
Moment of ine	ertia	Without	brake	0.025	
of rotor (×10 ⁻⁴	of rotor (×10 ⁻⁴ kg·m ²) With brake			0.027	
Recommended moment of inertia ratio of the load and the rotor Note)3			30 times	s 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.

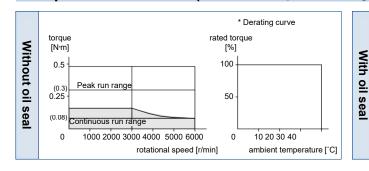
,	,
Static friction torque (N·m)	0.29 or more
Engaging time (ms)	35 or less
Releasing time (ms) Note)4	20 or less
Exciting current (DC) (A)	0.3
Releasing voltage (DC) (V)	1 or more
Exciting voltage (DC) (V)	24±1.2

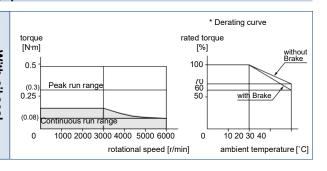
• Permissible load (For details, refer to P.183)

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

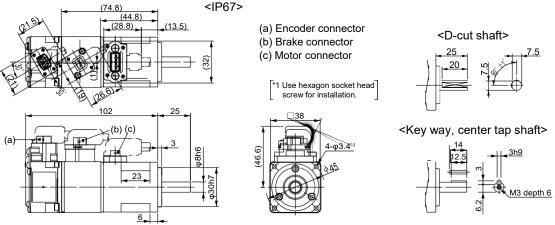




Dimensions < In Case of With Brake, Cable direction to output shaft.>

· 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 leftpage.

[Unit: mm]

A5 Family

Specifications

			AC1	00 V	
Matanasalal	IP65		-	-	
Motor model		IP67	MSME011G1□	MSME011S1□	
A I' I. I .	Model	Model A5II, A5 series MAD		♦ T1107	
Applicable driver *2	No.	A5IIE, A5E series	MAD ⇔T1107 E	-	
unvei	Fr	ame symbol	A-fr	ame	
Power supply	capacit	y (kVA)	0	.4	
Rated output		(W)	10	00	
Rated torque		(N·m)	0.	32	
Momentary Ma	ax. peal	k torque (N·m)	0.95		
Rated current		(A(rms))	1.6		
Max. current (A(o-p))		6.9			
Regenerative brake Without opt		Without option	No limit Note)2		
frequency (times/m	nin)Note)1	DV0P4280 No lim		it Note)2	
Rated rotation	al spee	d (r/min)	3000		
Max. rotational	speed	(r/min)	6000		
Moment of ine	rtia	Without brake	0.051		
of rotor (×10 ⁻⁴ l	kg·m²)	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		
Re	esolutic	n 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.

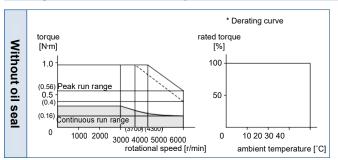
Static friction torque (N·m)	0.29 or more
Engaging time (ms)	35 or less
Releasing time (ms) Note)4	20 or less
Exciting current (DC) (A)	0.3
Releasing voltage (DC) (V)	1 or more
Exciting voltage (DC) (V)	24±1.2

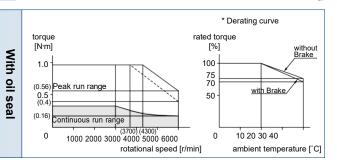
• Permissible load (For details, refer to P.183)

	,	,
	Radial load P-direction (N)	147
During assembly	Thrust load A-direction (N)	88
uooombiy	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 \(\times \) 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. >)



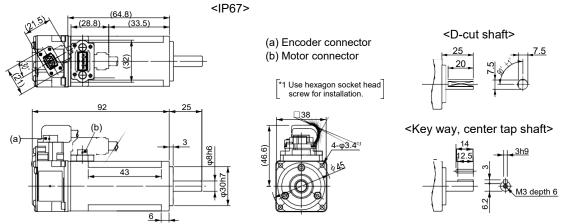


Dimensions < In Case of Without Brake, Cable direction to output shaft.>

· Motor cables for opposite to output shaft cannot be used with 100 W motor.

Mass: 0.46 kg

[Unit: mm]



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

<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.

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

Specifications

				AC2	00 V
Motor model		IP65		-	-
	*1	IP67		MSME012G1□	MSME012S1□
Amaliaabla	Model	A5 II , A5 ser	ies	MAD<	T1505
Applicable driver	*2 No.	A5 II E, A5E s	series	MAD ◇T1505E	-
dilvei	F	rame symbol		A-fr	ame
Power sup	ply capacit	y (I	kVA)	0	.5
Rated outp	ut		(W)	10	00
Rated torqu	ue	(1	N·m)	0.	32
Momentary	/ Max. pea	k torque (I	N·m)	0.95	
Rated curre	ent	(A(r	ms))	1.1	
Max. curre	Max. current (A(o-p))		4.7		
Regenerative brake		Without op	tion	No limit Note)2	
frequency (tin	nes/min)Note)1	DV0P4280 No limi		it Note)2	
Rated rotat	tional spee	d (r/	min)	3000	
Max. rotation	onal speed	(r/	min)	6000	
Moment of	inertia	Without bra	ake	0.051	
of rotor (×1	of rotor (×10 ⁻⁴ kg·m ²) With b		ке	0.054	
	Recommended moment of inertia ratio of the load and the rotor Note)3		30 times	s or less	
Rotary enc	oder speci	fications N	Note)5	20-bit Incremental	17-bit Absolute
	Resolution	on 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.

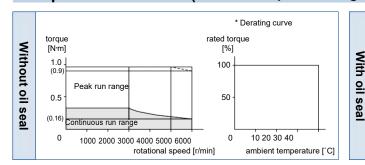
,	,
Static friction torque (N·m)	0.29 or more
Engaging time (ms)	35 or less
Releasing time (ms) Note)4	20 or less
Exciting current (DC) (A)	0.3
Releasing voltage (DC) (V)	1 or more
Exciting voltage (DC) (V)	24±1.2

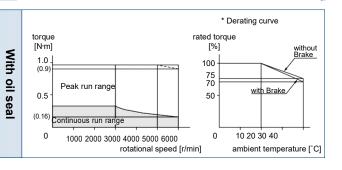
• Permissible load (For details, refer to P.183)

During assembly	Radial load P-direction (N)	147
	Thrust load A-direction (N)	88
	Thrust load B-direction (N)	117.6
During	Radial load P-direction (N)	68.6
operation	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 \iff 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. >)



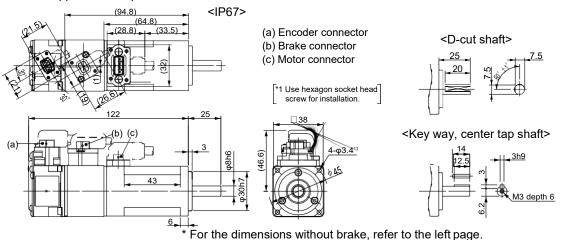


Dimensions < In Case of With Brake, Cable direction to output shaft.>

· Motor cables for opposite to output shaft cannot be used with 100 W motor.

Mass: 0.66 kg

[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.

67

			AC1	00 V
Motor model	IP65		-	-
*1		IP67	MSME021G1□	MSME021S1□
Amuliaahla	Model	A5 II , A5 series	MBD<	T2110
Applicable driver *2	No.	A5IIE, A5E series	MBD ⇔T2110E	-
dilvei	Fr	ame symbol	B-fr	ame
Power supply	capacit	y (kVA)	0	.5
Rated output		(W)	20	00
Rated torque		(N·m)	0.64	
Momentary Ma	ax. peal	k torque (N·m)	1.91	
Rated current		(A(rms))	2.5	
Max. current (A(o-p))		10.6		
Regenerative brake Without option		No lim	t Note)2	
. •		DV0P4283	No limit Note)2	
Rated rotation	al spee	d (r/min)	3000	
Max. rotationa	l speed	(r/min)	6000	
Moment of ine	rtia	Without brake	0.14	
of rotor (×10 ⁻⁴	kg·m²)	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	
R	esolutio	n 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.

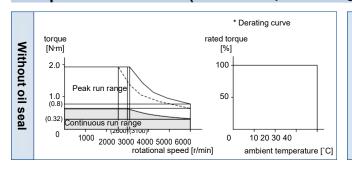
,	/
Static friction torque (N·m)	1.27 or more
Engaging time (ms)	50 or less
Releasing time (ms) Note)4	15 or less
Exciting current (DC) (A)	0.36
Releasing voltage (DC) (V)	1 or more
Exciting voltage (DC) (V)	24±1.2

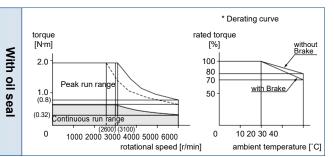
• Permissible load (For details, refer to P.183)

	,	,
	Radial load P-direction (N)	392
During assembly	Thrust load A-direction (N)	147
docombry	Thrust load B-direction (N)	196
During	Radial load P-direction (N)	245
operation	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.

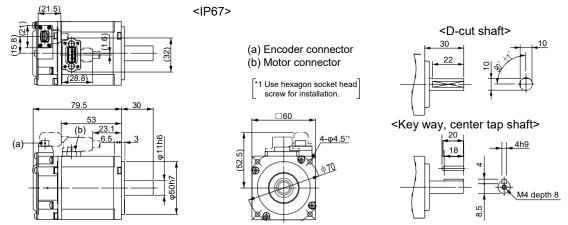
Torque characteristics (at AC100 V of power voltage < Dotted line represents the torque at 10 % less supply voltage. >)





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

Mass: 0.78 kg



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

<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.

[Unit: mm]

200 V MSME 200 W [Low inertia, Small capacity]

Specifications

				AC2	00 V
Motor model		IP65		-	-
*1		IP67		MSME022G1□	MSME022S1□
A !! - -	Model	A5 II , A5 series		MAD ◇T1507	
Applicable driver *2	No.	A5 II E, A5	E series	MAD ⇔T1507E	-
unvoi	Fr	ame sym	bol	A-fr	ame
Power supply	y capacit	y	(kVA)	0	.5
Rated output	t		(W)	20	00
Rated torque	;		(N·m)	0.	64
Momentary N	∕lax. peal	k torque	(N·m)	1.91	
Rated curren	ıt	(A(rms))	1.5	
Max. current (A(o-p))		6.5			
Regenerative brake Without op		option	No lim	it Note)2	
frequency (times	s/min)Note)1	DV0P4283 No limit Note)2		it Note)2	
Rated rotation	nal spee	d	(r/min)	3000	
Max. rotation	al speed		(r/min)	6000	
Moment of in	ertia	Without	brake	0.14	
of rotor (×10	of rotor (×10 ⁻⁴ kg·m ²)		rake	0.16	
Recommended moment of inertia ratio of the load and the rotor Note)3		30 times	s or less		
Rotary encoder specifications Note)5		20-bit Incremental	17-bit Absolute		
	Resolutio	n per sin	gle 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.

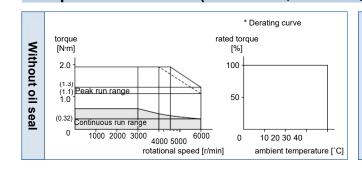
Static friction torque (N·m)	1.27 or more
Engaging time (ms)	50 or less
Releasing time (ms) Note)4	15 or less
Exciting current (DC) (A)	0.36
Releasing voltage (DC) (V)	1 or more
Exciting voltage (DC) (V)	24±1.2

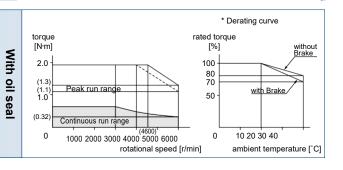
• Permissible load (For details, refer to P.183)

Danis	Radial load P-direction (N)	392
During assembly	Thrust load A-direction (N)	147
	Thrust load B-direction (N)	196
During	Radial load P-direction (N)	245
operation	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.

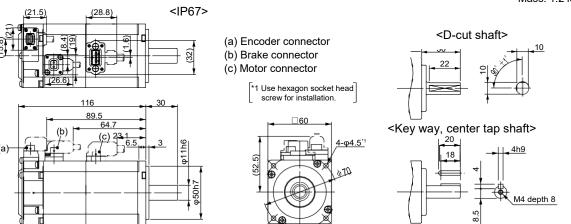
Torque characteristics (at AC200 V of power voltage < Dotted line represents the torque at 10 % less supply voltage. >)





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

Mass: 1.2 kg



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

[Unit: m

A5 Family

Specifications

			AC100 V	
Motor model	IP65		-	-
*1		IP67	MSME041G1□	MSME041S1□
A 11 11	Model	A5 II , A5 series	MCD ◇T3120	
Applicable driver *2	No.	A5IIE, A5E series	MCD ◇T3120E	-
dilvei	Fr	rame symbol	C-fr	ame
Power supply	capacit	y (kVA)	0	.9
Rated output		(W)	4(00
Rated torque		(N·m)	1	.3
Momentary Ma	ax. peal	k torque (N·m)	3.8	
Rated current		(A(rms))	4.6	
Max. current (A(o-p))		19.5		
Regenerative brake Without or		Without option	No lim	it Note)2
frequency (times/n	nin)Note)1	DV0P4282	No limit Note)2	
Rated rotation	al spee	d (r/min)	3000	
Max. rotationa	l speed	(r/min)	6000	
Moment of ine	rtia	Without brake	0.26	
of rotor (×10 ⁻⁴	kg·m²)	With brake	0.28	
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	
R	Resolution per single turn			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.

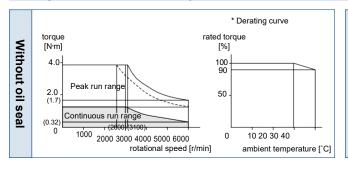
Static friction torque (N·m)	1.27 or more
Engaging time (ms)	50 or less
Releasing time (ms) Note)4	15 or less
Exciting current (DC) (A)	0.36
Releasing voltage (DC) (V)	1 or more
Exciting voltage (DC) (V)	24±1.2

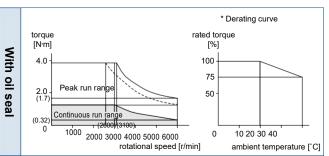
• Permissible load (For details, refer to P.183)

During assembly	Radial load P-direction (N)	392
	Thrust load A-direction (N)	147
	Thrust load B-direction (N)	196
During	Radial load P-direction (N)	245
operation	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 \(\times \) in number of applicable driver represents the series. For more information about the part number, please refer to P.16.

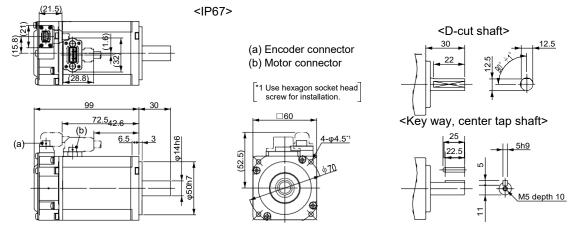
Torque characteristics (at AC100 V of power voltage < Dotted line represents the torque at 10 % less supply voltage. >)





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.

<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

			AC2	00 V		
Motor model	IP65		-	-		
*1		IP67	MSME042G1□	MSME042S1□		
Amuliaahla	Model	A5 II , A5 series	MBD ◇T2510			
Applicable driver *2	No.	A5IIE, A5E series	MBD ◇T2510E	-		
divei	Fr	ame symbol	B-fra	ame		
Power supply	capacit	y (kVA)	0	.9		
Rated output		(W)	40	00		
Rated torque		(N·m)	1	.3		
Momentary Ma	ax. peal	k torque (N⋅m)	3.8			
Rated current		(A(rms))	2.4			
Max. current		(A(o-p))	10).2		
Regenerative	brake	Without option	No limi	t Note)2		
frequency (times/r	nin)Note)1	DV0P4283	No limit Note)2			
Rated rotation	al spee	d (r/min)	3000			
Max. rotationa	l speed	(r/min)	6000			
Moment of ine	rtia	Without brake	0.26			
of rotor (×10 ⁻⁴	kg·m²)	With brake	0.28			
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		
_						

200 V MSME 400 W [Low inertia, Small capacity]

• 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.

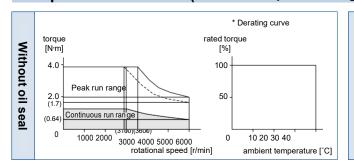
,	,
Static friction torque (N·m)	1.27 or more
Engaging time (ms)	50 or less
Releasing time (ms) Note)4	15 or less
Exciting current (DC) (A)	0.36
Releasing voltage (DC) (V)	1 or more
Exciting voltage (DC) (V)	24±1.2

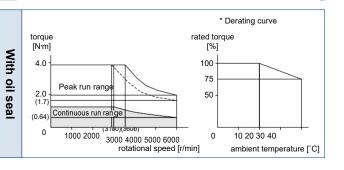
• Permissible load (For details, refer to P.183)

	.	Radial load P-direction (N)	392		
	During assembly	Thrust load A-direction (N)	147		
	During	Thrust load B-direction (N)	196		
		Radial load P-direction (N)	245		
	operation	Thrust load A, B-direction (N)	98		
	E . I . I . (N. I . A I . N. I . E . C . I . D.400 D.400				

- 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 \iff in number of applicable driver represents the series. For more information about the part number, please refer to P.16.

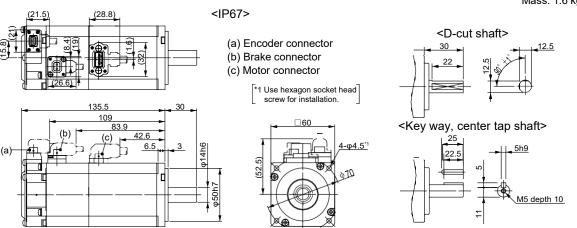
Torque characteristics (at AC200 V of power voltage < Dotted line represents the torque at 10 % less supply voltage. >)





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





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

<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.

			AC200 V	
Matananadal	IP65		-	-
Motor model *1		IP67	MSME082G1□	MSME082S1□
	Model	A5 II , A5 series	MCD<	T3520
Applicable *2	No.	A5IIE, A5E series	MCD ◇T3520E –	
unvei	Fr	ame symbol	C-fr	ame
Power supply	capacit	y (kVA)	1	.3
Rated output		(W)	75	50
Rated torque		(N·m)	2	.4
Momentary Ma	ax. peal	k torque (N·m)	7.1	
Rated current (A(rms))		4.1		
Max. current (A(o-p))		17.4		
Regenerative	brake	Without option	No limit Note)2	
frequency (times/r	nin)Note)1	DV0P4283	No limit Note)2	
Rated rotation	al spee	d (r/min)	3000	
Max. rotationa	l speed	(r/min)	6000	
Moment of ine	rtia	Without brake	0.87	
of rotor (×10 ⁻⁴	kg·m²)	With brake	0.97	
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	
R	Resolution per single turn			131072
_		4	A 0000 V - f	

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.

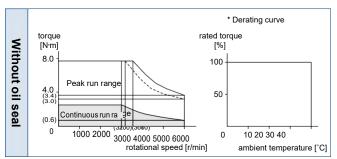
Static friction torque (N·m)	2.45 or more
Engaging time (ms)	70 or less
Releasing time (ms) Note)4	20 or less
Exciting current (DC) (A)	0.42
Releasing voltage (DC) (V)	1 or more
Exciting voltage (DC) (V)	24±1.2

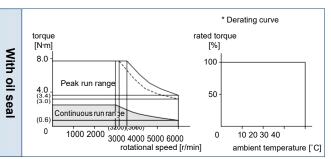
Permissible load (For details, refer to P.183)

. •	7	/
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. >)





Mass: Without brake/ 2.3 kg

[Unit: mm]

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

(a) Encoder connector
(b) Brake connector
(c) Motor connector
148.2[112.2]
121.7[85.7]
(b) 94.8
(c) 52.4
(d) 52.4
(e) 52.4
(f) 52.4
(g) 6h9
(h) 6h9

* Figures in [] represent the dimensions without brake.

73

(b) Motor/Br

<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

			AC2	00 V		
Matanasadal		IP65		MSME102GC□	MSME102SC□	
Motor model *1		IP67		MSME102G1□	MSME102S1□	
A II I- I -	Model	A5 II , A5 series MDD♦T5540		T5540		
Applicable driver *2	No.	A5 II E, A5	5E series	MDD ◇T5540E	-	
unver	Fr	ame sym	bol	D-fr	D-frame	
Power supply	capacit	у	(kVA)	1	.8	
Rated output			(W)	10	00	
Rated torque			(N·m)	3.	18	
Momentary M	ax. peal	k torque	(N·m)	9.55		
Rated current (A(rms))		6.6				
Max. current (A(o-p))		2	8			
Regenerative	brake	Without	option	No limit Note)2		
frequency (times/min)Note)1		DV0P	4284	No limit Note)2		
Rated rotation	nal spee	d	(r/min)	3000		
Max. rotationa	al speed		(r/min)	5000		
Moment of ine	ertia	Without	t brake	2.03		
of rotor (×10 ⁻⁴	kg·m²)	With b	orake	2.35		
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			
F	Resolutio	n per sin	gle 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.)

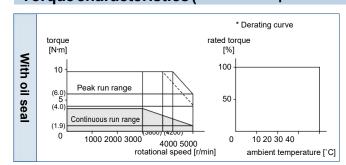
Static friction torque (N·m)	7.8 or more
Engaging time (ms)	50 or less
Releasing time (ms) Note)4	15 or less
Exciting current (DC) (A)	0.81±10 %
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

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

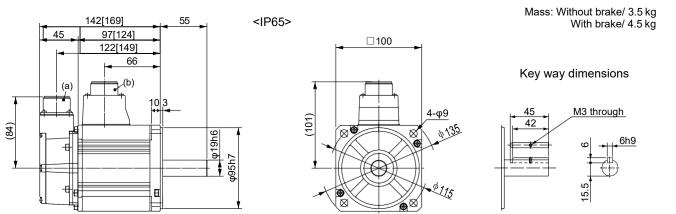
Danis	Radial load P-direction (N)	980
During assembly	Thrust load A-direction (N)	588
	Thrust load B-direction (N)	686
During	Radial load P-direction (N)	490
operation	Thrust load A, B-direction (N)	196

- 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 \diamondsuit 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.

74

[Unit: mm]

			AC2	00 V
Matanasadal	IP65		MSME152GC□	MSME152SC□
Motor model *1		IP67	MSME152G1□	MSME152S1□
	Model	A5 II , A5 series	MDD \diamondsuit T5540	
Applicable *2	No.	A5IIE, A5E series	MDD \diamondsuit T5540E	-
unvei	Fr	ame symbol	D-fr	ame
Power supply	capacit	y (kVA)	2	.3
Rated output		(W)	15	00
Rated torque		(N·m)	4.	77
Momentary M	ax. peal	c torque (N⋅m)	14.3	
Rated current		(A(rms))	8.2	
Max. current		(A(o-p))	35	
Regenerative	brake	Without option	No lim	it Note)2
frequency (times/r	nin)Note)1	DV0P4284	No limit Note)2	
Rated rotation	al spee	d (r/min)	3000	
Max. rotationa	l speed	(r/min)	5000	
Moment of ine	rtia	Without brake	2.84	
of rotor (×10 ⁻⁴	kg·m²)	With brake	3.17	
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.

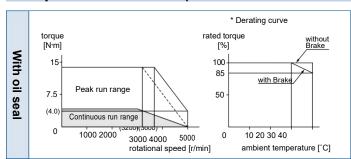
Static friction torque (N·m)	7.8 or more
Engaging time (ms)	50 or less
Releasing time (ms) Note)4	15 or less
Exciting current (DC) (A)	0.81±10 %
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

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

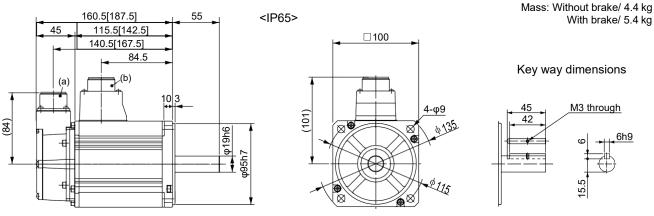
. •	7	/
During assembly	Radial load P-direction (N)	980
	Thrust load A-direction (N)	588
	Thrust load B-direction (N)	686
During operation	Radial load P-direction (N)	490
	Thrust load A, B-direction (N)	196

- 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 \iff 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. >)



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



(a) Encoder connector

Dimensions

- (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

			AC2	00 V		
Motor mode	.1	IP65		MSME202GC□	MSME202SC□	
	:1	IP67		MSME202G1□	MSME202S1□	
۸ ا ا	Model	A5 II , A5	series	MED◇	T7364	
Applicable driver *	No.	A5 II E, A5	E series	MED ◇T7364E	-	
dilvoi	F	rame sym	bol	E-fra	ame	
Power supp	ly capacit	У	(kVA)	3	.3	
Rated outpu	ut		(W)	20	00	
Rated torqu	е		(N·m)	6.	37	
Momentary	Max. pea	k torque	(N·m)	19).1	
Rated curre	nt	(A(rms))	11.3		
Max. curren	ıt		(A(o-p))	48		
Regenerativ	/e brake	Without option		No limit Note)2		
frequency (tim	es/min)Note)1	DV0P4285		No limit Note)2		
Rated rotati	onal spee	d	(r/min)	3000		
Max. rotatio	nal speed	l	(r/min)	5000		
Moment of i	nertia	Without brake		3.68		
of rotor (×10 ⁻⁴ kg·m ²)		With b	With brake		4.01	
Recommended moment of inertia ratio of the load and the rotor Note)3		15 times	s or less			
Rotary encoder specifications Note)		Note)5	20-bit Incremental	17-bit Absolute		
Resolution per single tu			gle turn	1048576	131072	

200 V MSME 2.0 kW [Low inertia, Middle capacity]

 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.

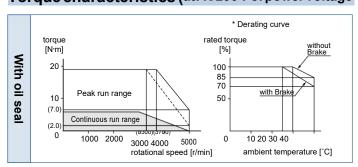
Static friction torque (N·m)	7.8 or more
Engaging time (ms)	50 or less
Releasing time (ms) Note)4	15 or less
Exciting current (DC) (A)	0.81±10 %
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

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

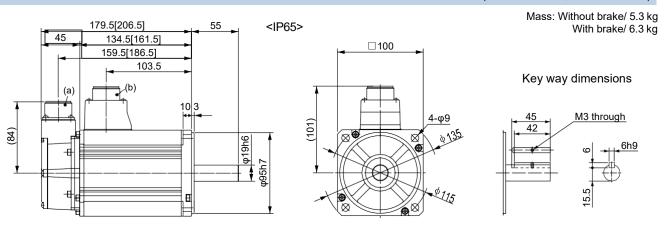
Danis	Radial load P-direction (N)	980
During assembly	Thrust load A-direction (N)	588
	Thrust load B-direction (N)	686
During	Radial load P-direction (N)	490
operation	Thrust load A, B-direction (N)	196

- 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 \iff 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]

				00 V
Motor model	IP65		MSME302GC□	MSME302SC□
*1		IP67	MSME302G1□	MSME302S1□
A II I. I .	Model	A5 II , A5 series	MFD◇	TA390
Applicable driver *2	No.	A5IIE, A5E series	MFD ◇TA390E	-
unver	Fr	ame symbol	F-fra	ame
Power supply	capacit	y (kVA)	4	.5
Rated output		(W)	30	00
Rated torque		(N·m)	9.	55
Momentary M	ax. peal	k torque (N·m)	28.6	
Rated current		(A(rms))	18.1	
Max. current		(A(o-p))	7	7
Regenerative	brake	Without option	No limit Note)2	
frequency (times/r	min)Note)1	DV0P4285×2	No limit Note)2	
Rated rotation	al spee	d (r/min)	3000	
Max. rotationa	l speed	(r/min)	5000	
Moment of ine	ertia	Without brake	6.50	
of rotor (×10 ⁻⁴	kg·m²)	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	
R	Resolution per single turn			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.

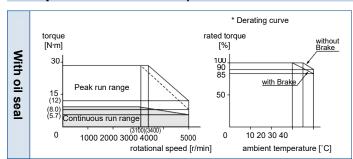
11.8 or more
80 or less
15 or less
0.81±10 %
2 or more
24±2.4

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

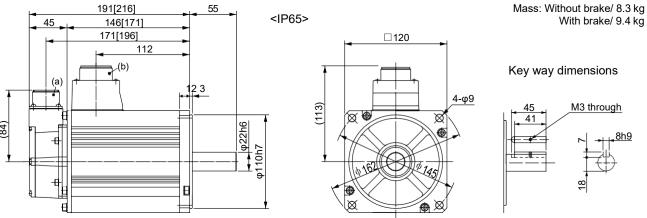
	,	,
	Radial load P-direction (N)	980
During assembly	Thrust load A-direction (N)	588
	Thrust load B-direction (N)	686
During	Radial load P-direction (N)	490
operation	Thrust load A, B-direction (N)	196

- 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 \(\times \) 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. >)



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



(a) Encoder connector

Dimensions

- (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.

200 V MSME 4.0 kW [Low inertia, Middle capacity]

Specifications

			AC2	00 V	
Motor mod	lal	IP65		MSME402GC□	MSME402SC□
Motor mod	*1	IP67		MSME402G1□	MSME402S1
Annlinabla	Mode	A5 II , A5	series	MFD ♦TB3A2	
Applicable driver	*2 No.	A5 II E, A5	E series	MFD ⊘TB3A2E	-
diivoi	F	rame sym	bol	F-fr	ame
Power sup	ply capaci	ty	(kVA)	6	.0
Rated outp	out		(W)	40	00
Rated torq	ue		(N·m)	12	2.7
Momentary	/ Max. pea	ık torque	(N·m)	38.2	
Rated current (A(rms))			19.6		
Max. current (A(o-p))			8	3	
Regenerative brake Without option		option	No lim	t Note)2	
frequency (tir	mes/min)Note)	DV0P4	285×2	No limit Note)2	
Rated rota	tional spe	ed	(r/min)	3000	
Max. rotati	onal spee	t	(r/min)	4500	
Moment of		Without	brake	12.9	
of rotor (×10 ⁻⁴ kg·m²) With brake		orake	14.2		
Recommended moment of inertia ratio of the load and the rotor Note)3		15 times	s or less		
Rotary encoder specifications Note)5		20-bit Incremental	17-bit Absolute		
Resolution per single turn			gle 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.

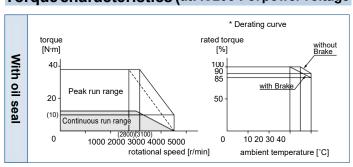
,	,
Static friction torque (N·m)	16.2 or more
Engaging time (ms)	110 or less
Releasing time (ms) Note)4	50 or less
Exciting current (DC) (A)	0.90±10 %
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

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

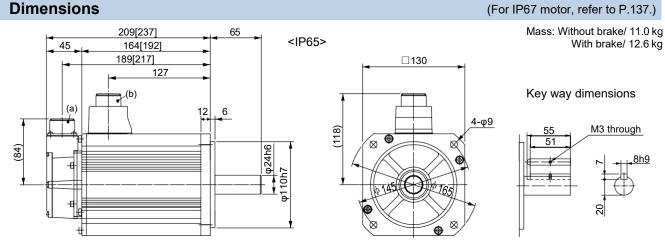
D	Radial load P-direction (N)	980
During assembly	Thrust load A-direction (N)	588
,	Thrust load B-direction (N)	686
During	Radial load P-direction (N)	784
operation	Thrust load A, B-direction (N)	343

- 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 \diamondsuit 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. >)



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



- (a) Encoder connector
- (b) Motor/Brake connector
- * Figures in [] represent the dimensions with brake.

[Unit: mm]

			AC2	00 V
		IP65	MSME502GC□	MSME502SC□
Motor model *1		IP67	MSME502G1□	MSME502S1□
A I' I- I -	Model	A5 II , A5 series	MFD⇔TB3A2	
Applicable driver *2	No.	A5IIE, A5E series	MFD ⊘TB3A2 E	-
ulivei	Fr	ame symbol	F-fr	ame
Power supply of	capacit	y (kVA)	7	.5
Rated output		(W)	50	00
Rated torque		(N·m)	15	5.9
Momentary Ma	x. peal	k torque (N·m)	47.7	
Rated current		(A(rms))	24.0	
Max. current		(A(o-p))	102	
Regenerative b	orake	Without option	357	
frequency (times/m	nin)Note)1	DV0P4285×2	No limit Note)2	
Rated rotations	al spee	d (r/min)	3000	
Max. rotational	speed	(r/min)	4500	
Moment of iner	rtia	Without brake	17.4	
of rotor (×10 ⁻⁴ l	kg·m²)	With brake	18.6	
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	
Re	Resolution per single turn			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.

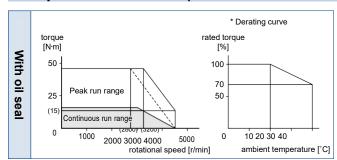
Static friction torque (N·m)	16.2 or more
Engaging time (ms)	110 or less
Releasing time (ms) Note)4	50 or less
Exciting current (DC) (A)	0.90±10 %
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

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

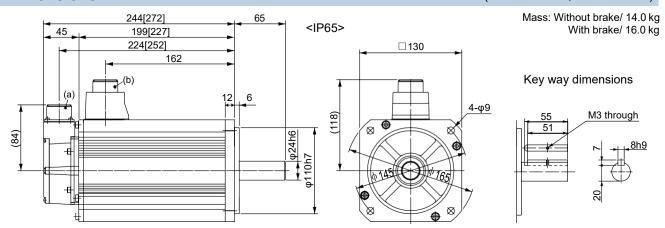
	,	,
During assembly	Radial load P-direction (N)	980
	Thrust load A-direction (N)	588
	Thrust load B-direction (N)	686
During operation	Radial load P-direction (N)	784
	Thrust load A, B-direction (N)	343

- 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 \(\times \) 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

				AC2	00 V
Matanasada		IP65		MDME102GC□	MDME102SC□
Motor mode *	·	IP67		MDME102G1□	MDME102S1□
A mudia a bla	Model	odel A5 II , A5 series		MDD ◇T3530	
Applicable driver *2	No.	A5 II E, A5	E series	MDD ⇔T3530E	-
divoi	Fr	ame sym	bol	D-fr	ame
Power supp	ly capacit	y	(kVA)	1.	.8
Rated outpu	t		(W)	10	00
Rated torque	е		(N·m)	4.	77
Momentary	Max. peal	torque	(N·m)	14.3	
Rated current (A(rms))		5.7			
Max. current (A(o-p))			2	4	
Regenerativ	e brake	Without	option	No limi	t Note)2
frequency (times/min)Note)1		DV0P4284		No limit Note)2	
Rated rotation	onal spee	d	(r/min)	2000	
Max. rotation	nal speed		(r/min)	3000	
Moment of in	nertia	Without	brake	4.60	
of rotor (×10 ⁻⁴ kg·m ²)		With b	rake	5.90	
Recommended moment of inertia ratio of the load and the rotor Note)3			10 times	s or less	
Rotary encoder specifications Note)5		20-bit Incremental	17-bit Absolute		
	Resolution	n per sino	gle 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.

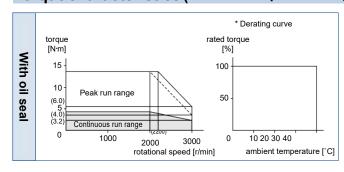
Static friction torque (N·m)	4.9 or more
Engaging time (ms)	80 or less
Releasing time (ms) Note)4	70 or less
Exciting current (DC) (A)	0.59±10 %
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

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

D	Radial load P-direction (N)	980
During assembly	Thrust load A-direction (N)	588
	Thrust load B-direction (N)	686
During	Radial load P-direction (N)	490
operation	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 \iff 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. >)

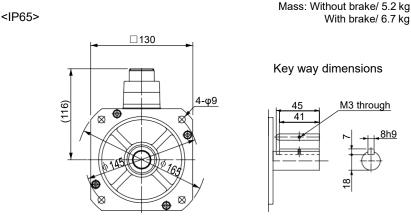


94[122]

60

119[147]

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



(a) Encoder connector

8

Dimensions

- (b) Motor/Brake connector
- * Figures in [] represent the dimensions with brake.

[Unit: mm]

			AC2	00 V
Matanasadal	IP65		MDME152GC□	MDME152SC□
Motor model *1		IP67	MDME152G1□	MDME152S1□
	Model	A5 II , A5 series	MDD ♦ T5540	
Applicable driver *2	No.	A5IIE, A5E series	MDD ◇T5540E	-
unvei	Fr	ame symbol	D-fr	ame
Power supply	capacit	y (kVA)	2	.3
Rated output		(W)	15	00
Rated torque		(N·m)	7.	16
Momentary M	ax. peal	c torque (N·m)	21.5	
Rated current		(A(rms))	9.4	
Max. current		(A(o-p))	4	0
Regenerative	brake	Without option	No lim	it Note)2
frequency (times/r	min)Note)1	DV0P4284	No limit Note)2	
Rated rotation	al spee	d (r/min)	2000	
Max. rotationa	l speed	(r/min)	3000	
Moment of ine	ertia	Without brake	6.70	
of rotor (×10 ⁻⁴	kg·m²)	With brake	7.99	
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)	13.7 or more
Engaging time (ms)	100 or less
Releasing time (ms) Note)4	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)

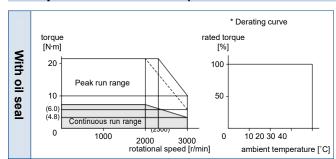
. •	7	/
	Radial load P-direction (N)	980
During assembly	Thrust load A-direction (N)	588
	Thrust load B-direction (N)	686
During	Radial load P-direction (N)	490
operation	Thrust load A, B-direction (N)	196

- For details of Note 1 to Note 5, refer to P.182, P.183.
- Dimensions of Driver, refer to P.43.
- *1 Motor specifications:

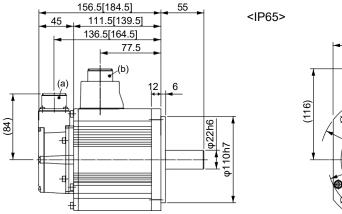
200 V MDME 1.5 kW [Middle inertia, Middle capacity]

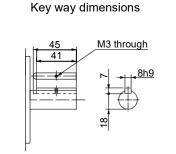
- *2 The product that the end of driver model designation has "E" is "Position control type". Detail of model designation, refer to P.16.
- *3 \(\rightarrow\) in number of applicable driver represents the series. For more information about the part number, please refer to P.16.

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/ 6.7 kg

With brake/ 8.2 kg

- (a) Encoder connector
- (b) Motor/Brake connector * Figures in [1] repres
- * Figures in [] represent the dimensions with brake.

81

[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

				AC2	00 V	
Motor mode	a.l	IP65		MDME202GC□	MDME202SC	
	∌I ∗1	IP67		MDME202G1□	MDME202S1	
Annlinable	Model	A5 II , A5	series	MED ◇T736 4		
Applicable driver	No.	A5 II E, A5	E series	MED ◇T7364E	-	
diivoi	F	rame sym	bol	E-fra	ame	
Power supp	oly capaci	ty	(kVA)	3	.3	
Rated outpo	ut		(W)	20	00	
Rated torqu	ie		(N·m)	9.	55	
Momentary	Max. pea	k torque	(N·m)	28.6		
Rated curre	ent	(A(rms))	11.5		
Max. currer	nt		(A(o-p))	49		
Regenerativ	ve brake	Without	option	No limi	No limit Note)2	
frequency (tim	nes/min)Note)	DV0P4285		No limit Note)2		
Rated rotat	ional spec	d	(r/min)	2000		
Max. rotation	nal speed	i	(r/min)	3000		
Moment of	inertia	Without	brake	8.72		
of rotor (×10 ⁻⁴ kg·m ²) With		With b	rake	10.0		
Recommended moment of inertia ratio of the load and the rotor Note)3		10 times	s or less			
Rotary encoder specifications Note)5		Note)5	20-bit Incremental	17-bit Absolute		
Resolution per single t			gle 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.

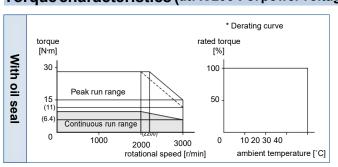
•	,
Static friction torque (N·m)	13.7 or more
Engaging time (ms)	100 or less
Releasing time (ms) Note)4	50 or less
Exciting current (DC) (A)	0.79±10 %
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

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

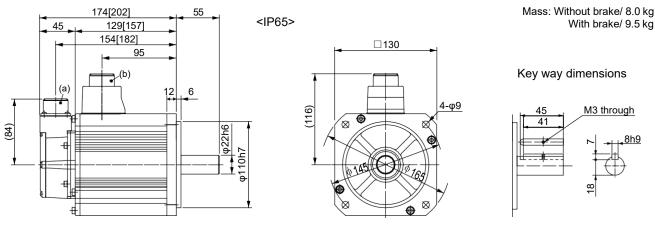
Di	Radial load P-direction (N)	980
During assembly	Thrust load A-direction (N)	588
During operation	Thrust load B-direction (N)	686
	Radial load P-direction (N)	490
	Thrust load A, B-direction (N)	196

- 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]

			AC2	00 V
Motor model	IP65		MDME302GC□	MDME302SC□
wotor model *1		IP67	MDME302G1□	MDME302S1□
A 11 1 1	Model	A5 II , A5 series	MFD ◇TA390	
Applicable *2	No.	A5IIE, A5E series MFD♦TA390E		-
unver	Fr	ame symbol	F-fra	ame
Power supply	capacit	y (kVA)	4.	.5
Rated output		(W)	30	00
Rated torque		(N·m)	14	.3
Momentary Ma	ax. peal	k torque (N·m)	43.0	
Rated current		(A(rms))	17.4	
Max. current (A(o-p))		74		
Regenerative brake With		Without option	No limit Note)2	
frequency (times/r	nin)Note)1	DV0P4285×2	No limit Note)2	
Rated rotation	al spee	d (r/min)	2000	
Max. rotationa	l speed	(r/min)	3000	
Moment of ine	rtia	Without brake	12.9	
of rotor (×10 ⁻⁴	kg·m²)	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.

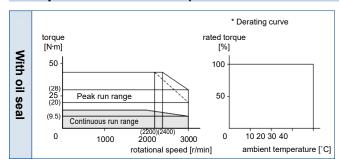
16.2 or more
110 or less
50 or less
0.90±10 %
2 or more
24±2.4

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

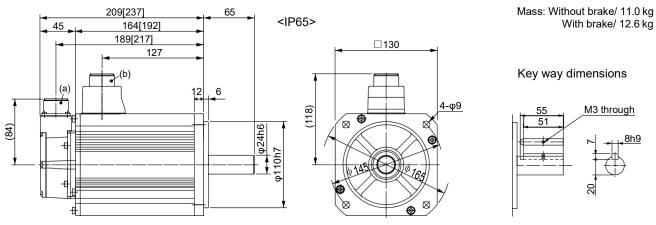
. •	, ,	/
During assembly	Radial load P-direction (N)	980
	Thrust load A-direction (N)	588
	Thrust load B-direction (N)	686
During operation	Radial load P-direction (N)	784
	Thrust load A, B-direction (N)	343

- 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 \(\times \) 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

			AC2	00 V	
Motor mod	lal.	IP65		MDME402GC□	MDME402SC
Motor mod	*1	IP67		MDME402G1□	MDME402S1
A II In I .	Mode	odel A5 II , A5 series		MFD ◇TB3A2	
Applicable driver	*2 No.	A5 II E, A5	E series	MFD ◇TB3A2E	-
dilvei	F	rame sym	bol	F-fra	ame
Power sup	ply capaci	ty	(kVA)	6	.0
Rated outp	out		(W)	40	00
Rated torq	ue		(N·m)	19).1
Momentar	y Max. pea	k torque	(N·m)	57.3	
Rated current (A(rms))		21.0			
Max. current (A(o-p))		8	9		
Regenerative brake Without option		option	No limi	t Note)2	
frequency (ti	mes/min)Note)	DV0P4	285×2	No limit Note)2	
Rated rota	tional spee	ed	(r/min)	2000	
Max. rotati	onal speed	t	(r/min)	3000	
Moment of	inertia	Without	t brake	37.6	
of rotor (×10 ⁻⁴ kg·m²) With brake		orake	42.9		
Recommended moment of inertia ratio of the load and the rotor Note)3		10 times	s or less		
Rotary encoder specifications Note)5		20-bit Incremental	17-bit Absolute		
Resolution per single turn			1048576	131072	

200 V MDME 4.0 kW [Middle inertia, Middle capacity]

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.

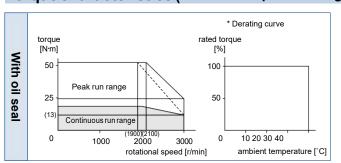
•	,
Static friction torque (N·m)	24.5 or more
Engaging time (ms)	80 or less
Releasing time (ms) Note)4	25 or less
Exciting current (DC) (A)	1.3±10 %
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

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

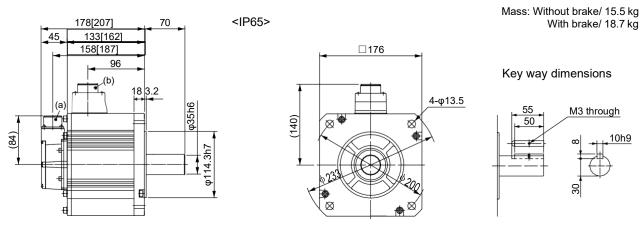
Di	Radial load P-direction (N)	1666		
During assembly	Thrust load A-direction (N)	784		
,	Thrust load B-direction (N)	980		
During	Radial load P-direction (N)	784		
operation	Thrust load A, B-direction (N)	343		

- 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 \iff 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]

			AC2	00 V
Motor model	IP65		MDME502GC□	MDME502SC□
*1		IP67	MDME502G1□	MDME502S1□
	Model	A5 II , A5 series	5II, A5 series MFD♦TE	
Applicable driver *2	No.	A5IIE, A5E series	MFD ⊘TB3A2 E	-
unver	Fr	ame symbol	F-fra	ame
Power supply	capacit	y (kVA)	7	.5
Rated output		(W)	50	00
Rated torque		(N·m)	23.9	
Momentary Ma	ax. peal	k torque (N·m)	71.6	
Rated current		(A(rms))	25.9	
Max. current (A(o-p))		110		
Regenerative brake		Without option	n 120	
frequency (times/n	nin)Note)1	DV0P4285×2	No limit Note)2	
Rated rotation	al spee	d (r/min)	2000	
Max. rotationa	l speed	(r/min)	3000	
Moment of ine	rtia	Without brake	48.0	
of rotor (×10 ⁻⁴	kg·m²)	With brake	53.3	
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
<u> </u>	

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

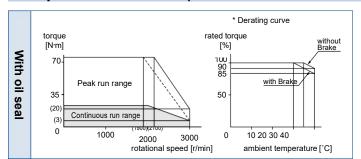
	,	,
During assembly	Radial load P-direction (N)	1666
	Thrust load A-direction (N)	784
	Thrust load B-direction (N)	980
During operation	Radial load P-direction (N)	784
	Thrust load A, B-direction (N)	343

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

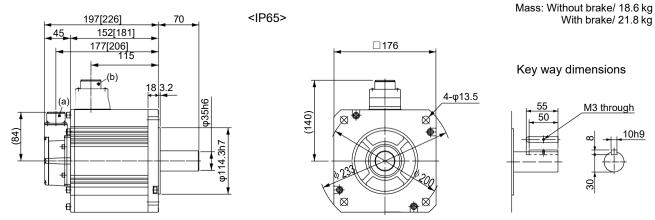
200 V MDME 5.0 kW [Middle inertia, Middle capacity]

- *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 \(\times \) 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.

85

[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

				AC2	00 V
Motor mode	al .	IP65		-	-
	∃I ∀1	IP67		MDME752G1□	MDME752S1□
Ammliaabla	Model	Model A5 II , A5 series		MGD ⊘TC3B 4	
Applicable driver	No.	A5 II E, A5	E series	-	-
divoi	Fr	ame sym	bol	G-fr	ame
Power supp	oly capacit	y	(kVA)	1	1
Rated outpo	ut		(W)	75	00
Rated torqu	ie		(N·m)	47	. .8
Momentary	Max. peal	torque	(N·m)	119	
Rated curre	ent	(4	A(rms))	44.0	
Max. current (A(o-p))		165			
Regenerative brake frequency (times/min)Note)1 DV0P42		option	No limit Note)2		
		DV0P4285×3		No limit Note)2	
Rated rotat	ional spee	d	(r/min)	1500	
Max. rotation	nal speed		(r/min)	3000	
Moment of	inertia	Without	brake	101	
of rotor (×1	0 ⁻⁴ kg·m²)	With b	rake	107	
Recommended moment of inertia ratio of the load and the rotor Note)3		10 times	s 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.

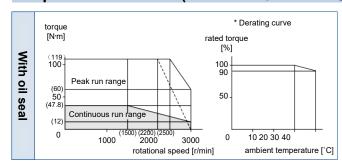
Static friction torque (N·m)	58.8 or more
Engaging time (ms)	150 or less
Releasing time (ms) Note)4	50 or less
Exciting current (DC) (A)	1.4±10 %
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

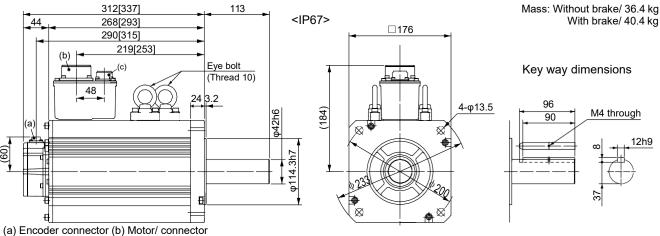
• Permissible load (For details, refer to P.183)

D. min a	Radial load P-direction (N)	2058
During assembly	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 \iff 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. >)





86

Dimensions

- (c) Brake connector (only with brake)
- * Figures in [] represent the dimensions with brake.

			AC2	00 V
Motor model		IP65	-	-
*1		IP67	MDMEC12G1□	MDMEC12S1□
A	Model	A5 II , A5 series	MHD◇	TC3B4
Applicable driver *2	No.	A5IIE, A5E series	-	-
unvei	Fr	ame symbol	H-fr	ame
Power supply	capacit	y (kVA)	1	7
Rated output		(W)	110	000
Rated torque		(N·m)	70	0.0
Momentary Ma	ax. peal	k torque (N⋅m)	175	
Rated current	Rated current (A(rms))		54.2	
Max. current	(A(o-p))		203	
Regenerative brake With		Without option	No limit Note)2	
frequency (times/n	nin)Note)1	DV0PM20058	No limit Note)2	
Rated rotation	al spee	d (r/min)	1500	
Max. rotationa	l speed	(r/min)	2000	
Moment of ine	rtia	Without brake	212	
of rotor (×10 ⁻⁴	kg·m²)	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
R	esolutic	n 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)

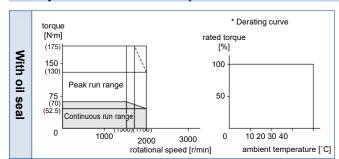
. •	7	/
	Radial load P-direction (N)	4508
During assembly	Thrust load A-direction (N)	1470
documbry	Thrust load B-direction (N)	1764
During	Radial load P-direction (N)	2254
operation	Thrust load A, B-direction (N)	686

- For details of Note 1 to Note 5, refer to P.182, P.183.
- Dimensions of Driver, refer to P.47.
- *1 Motor specifications:

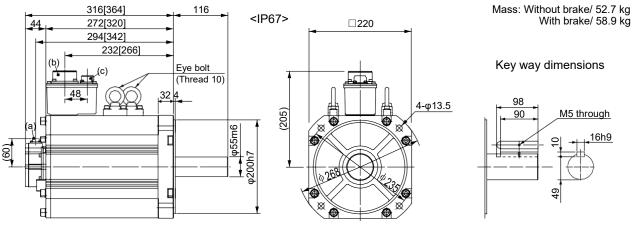
200 V MDME 11.0 kW [Middle inertia, Middle capacity]

- *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 \(\times \) 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

				AC2	00 V	
Motor model		IP65		-	-	
Motor mod	*1		IP67		MDMEC52G1□	MDMEC52S1□
A	N	Model	A5 II , A5	series	MHD♦	TC3B4
Applicable driver	*2	No.	A5 II E, A5	E series	_	-
anvoi		Fr	ame symb	ool	H-fr	ame
Power sup	ply ca	apacity	/	(kVA)	2	2
Rated outp	ut			(W)	150	000
Rated torqu	ue			(N·m)	95	5.5
Momentary	/ Max	c. peak	torque	(N·m)	224	
Rated curre	ent		(A	A(rms))	66.1	
Max. current (A(o-p))			23	36		
Regenerative brake Without option		option	No limi	t Note)2		
frequency (tin	nes/mir	n)Note)1	¹ DV0PM20058		No limit Note)2	
Rated rotat	tional	speed	d	(r/min)	1500	
Max. rotation	onal	speed		(r/min)	2000	
Moment of	inert	ia	Without	brake	302	
of rotor (×10 ⁻⁴ kg·m ²)		With b	rake	3′	11	
Recommended moment of inertia ratio of the load and the rotor Note)3			10 times	s or less		
Rotary encoder specifications Note)5		20-bit Incremental	17-bit Absolute			
	Res	Resolution per single turn				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.

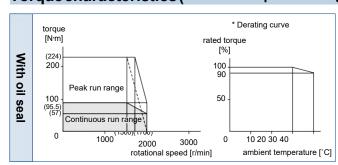
,	,
Static friction torque (N·m)	100 or more
Engaging time (ms)	300 or less
Releasing time (ms) Note)4	140 or less
Exciting current (DC) (A)	1.08±10 %
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

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

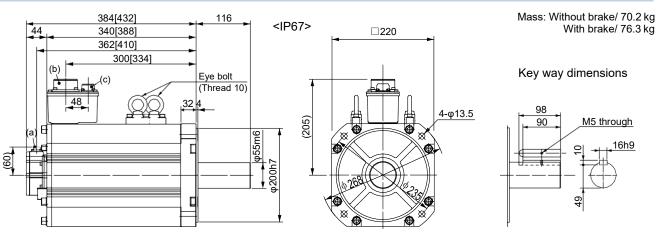
Di.	Radial load P-direction (N)	4508
During assembly	Thrust load A-direction (N)	1470
documbry	Thrust load B-direction (N)	1764
During	Radial load P-direction (N)	2254
operation	Thrust load A, B-direction (N)	686

- 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 \iff 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.

			AC2	00 V
		IP65	-	-
Motor model *1		IP67	MFME152G1□	MFME152S1□
	Model	A5 II , A5 series	MDD<	T5540
Applicable driver *2	No.	A5IIE, A5E series	MDD \diamondsuit T5540E	_
dilvei	Fr	ame symbol	D-fr	ame
Power supply of	capacit	y (kVA)	2	.3
Rated output		(W)	15	00
Rated torque		(N·m)	7.16	
Momentary Ma	x. peal	ctorque (N·m)	21.5	
Rated current (A(rms))		7.5		
Max. current (A(o-p))		32		
Regenerative brake Withou		Without option	100	
frequency (times/m	iin)Note)1	DV0P4284	No limit Note)2	
Rated rotations	al spee	d (r/min)	2000	
Max. rotational	speed	(r/min)	3000	
Moment of iner	tia	Without brake	18.2	
of rotor ($\times 10^{-4}$ k	(g·m²)	With brake	23.5	
Recommended moment of inertia ratio of the load and the rotor Note)3			10 times or less	
Rotary encode	r specit	ications Note)5	20-bit Incremental	17-bit Absolute
Re	esolutio	n 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.

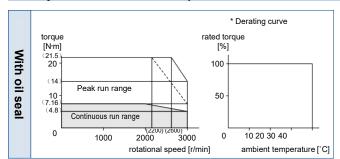
,	
Static friction torque (N·m)	7.8 or more
Engaging time (ms)	80 or less
Releasing time (ms) Note)4	35 or less
Exciting current (DC) (A)	0.83±10 %
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

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

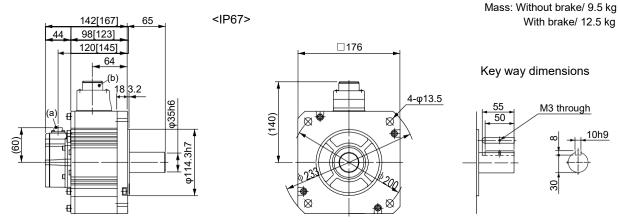
During assembly During operation	Radial load P-direction (N)	980
	Thrust load A-direction (N)	588
	Thrust load B-direction (N)	686
	Radial load P-direction (N)	490
	Thrust load A, B-direction (N)	196

- 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 \diamondsuit 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

200 V **MFME** 2.5 kW

					AC2	00 V
Motor model		IP65			-	-
			IP67		MFME252G1□	MFME252S1□
A 11 1.1		Model	A5 II , A5	series	MED⇔T7364	
Applicable driver	*2	No.	A5 II E, A5	E series	MED ◇T7364 E	_
unver	Ī	Fr	ame sym	bol	E-fr	ame
Power sup	ply	capacit	У	(kVA)	3	.8
Rated outp	out			(W)	25	00
Rated torq	lue			(N·m)	11	.9
Momentar	у Ма	x. peal	torque	(N·m)	30.4	
Rated curr	ent		(A(rms))	13.4	
Max. current (A(o-p))			5	7		
Regenerat	tive t	orake	Without	option	7	5
frequency (ti	mes/m	in)Note)1	DV0P4285		No limit Note)2	
Rated rota	tiona	al spee	d	(r/min)	2000	
Max. rotati	ional	speed		(r/min)	3000	
Moment of	f ine	tia	Without	brake	35.8	
of rotor (×	10⁻⁴ ŀ	⟨g·m²)	With b	rake	45	5.2
Recommended moment of inertia ratio of the load and the rotor Note)3		10 times or less				
Rotary end	Rotary encoder specifications Note)5		20-bit Incremental	17-bit Absolute		
	Re	esolutio	n per sin	gle 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) Note)4	100 or less
Exciting current (DC) (A)	0.75±10 %
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

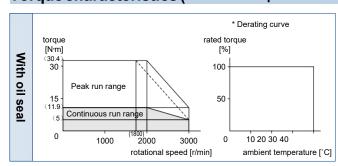
• Permissible load (For details, refer to P.183)

During assembly During operation	Radial load P-direction (N)	1862
	Thrust load A-direction (N)	686
	Thrust load B-direction (N)	686
	Radial load P-direction (N)	784
	Thrust load A, B-direction (N)	294

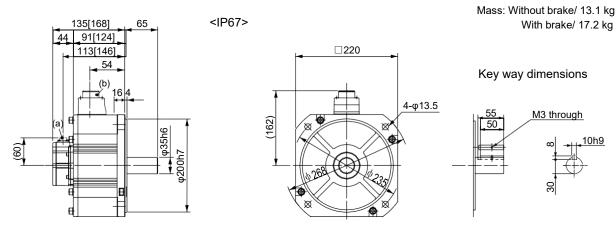
- For details of Note 1 to Note 5, refer to P.182, P.183.
- · Dimensions of Driver, refer to P.44.
- *1 Motor specifications:
- *2 The product that the end of driver model designation has "E" is "Position control type". Detail of model designation, refer to P.16.
- *3 \diamondsuit in number of applicable 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. >)

Middle inertia, Middle capacity Flat type



Dimensions



- (a) Encoder connector
- (b) Motor/Brake connector
- * Figures in [] represent the dimensions with brake.

[Unit: mm]

			AC2	00 V
Motor model	IP65		-	-
*1		IP67	MFME452G1□	MFME452S1□
A I' I- I -	Model	A5 II , A5 series	MFD⇔	TB3A2
Applicable driver *2	No.	A5IIE, A5E series	MFD ⊘TB3A2 E	_
diivoi	Fr	rame symbol	F-fra	ame
Power supply	capacit	y (kVA)	6	.8
Rated output		(W)	45	00
Rated torque		(N·m)	21.5	
Momentary Ma	ax. peal	k torque (N⋅m)	54.9	
Rated current		(A(rms))	24.7	
Max. current		(A(o-p))	10	05
Regenerative I	brake	Without option	67	
frequency (times/n	nin)Note)1	DV0P4285×2	375	
Rated rotation	al spee	d (r/min)	2000	
Max. rotationa	l speed	(r/min)	3000	
Moment of ine	rtia	Without brake	63.1	
of rotor (×10 ⁻⁴	kg·m²)	With brake	70.9	
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.

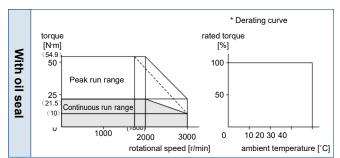
Static friction torque (N·m)	31.4 or more
Engaging time (ms)	150 or less
Releasing time (ms) Note)4	100 or less
Exciting current (DC) (A)	0.75±10 %
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

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

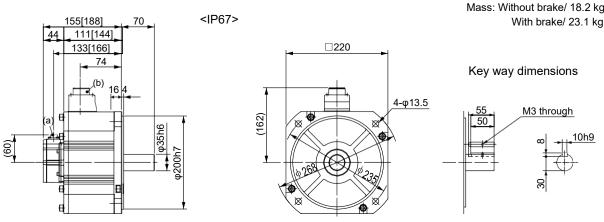
	.	Radial load P-direction (N)	1862
During assembly	Thrust load A-direction (N)	686	
	Thrust load B-direction (N)	686	
	During operation	Radial load P-direction (N)	784
		Thrust load A, B-direction (N)	294

- 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 \diamondsuit 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

			AC2	00 V			
Motor model		IP65		MGME092GC□	MGME092SC□		
			IP67		MGME092G1□	MGME092S1□	
A I' I- I -	Model		Model A5 II , A5 series		MDD<	T5540	
Applicable driver	*2	No.	A5IIE, A5E series		MDD ◇T5540E	-	
divoi		Fr	ame sym	bol	D-fr	ame	
Power sup	ply c	apacity	/	(kVA)	1	.8	
Rated outp	ut			(W)	90	00	
Rated torqu	ue			(N·m)	8.	59	
Momentary	/ Ma	x. peał	torque	(N·m)	19.3		
Rated curre	ent		(.	A(rms))	7.6		
Max. current (A(o-p))		24					
Regenerative brake		rake	Without	option	No limit Note)2		
frequency (tin	mes/mi	in)Note)1	DV0P4284		No limit Note)2		
Rated rotat	tiona	ıl speed	d	(r/min)	1000		
Max. rotation	onal	speed		(r/min)	2000		
Moment of	iner	tia	Without	brake	6.	6.70	
of rotor (×10 ⁻⁴ kg·m ²)		With b	rake	7.99			
Recommended moment of inertia ratio of the load and the rotor Note)3		10 times	s or less				
Rotary encoder specifications Note)5		20-bit Incremental	17-bit Absolute				
Resolution per sing		gle 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.

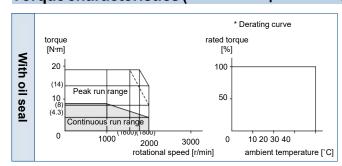
Static friction torque (N·m)	13.7 or more
Engaging time (ms)	100 or less
Releasing time (ms) Note)4	50 or less
Exciting current (DC) (A)	0.79±10 %
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

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

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

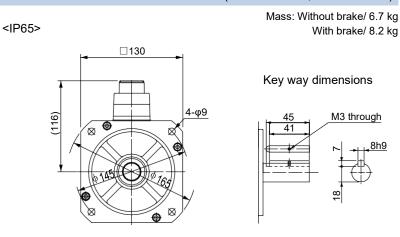
- For details of Note 1 to Note 5, refer to P.182, P.183.
- · Dimensions of Driver, refer to P.43.
- *1 Motor specifications:
- *2 The product that the end of driver model designation has "E" is "Position control type". Detail of model designation, refer to P.16.
- *3 \diamondsuit in number of applicable 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. >)



70

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



(a) Encoder connector

Dimensions

156.5[184.5]

111.5[139.5]

136.5[164.5]

- (b) Motor/Brake connector
- * Figures in [] represent the dimensions with brake.

[Unit: mm]

AC200 V IP65 MGME202GC□ | MGME202SC□ Motor model MGME202G1□ | MGME202S1□ IP67 Model A5**II**, A5 series MFD \diamondsuit TA390 Applicable No. A5IIE, A5E series MFD**♦**TA390E driver F-frame (kVA) 3.8 Power supply capacity Rated output (W) 2000 19.1 (N·m) Rated torque 47.7 Momentary Max. peak torque (N·m) 17.0 Rated current (A(rms)) 60 (A(o-p)) Max. current Without option No limit Note)2 Regenerative brake frequency (times/min)Note)1 DV0P4285×2 No limit Note)2 1000 Rated rotational speed (r/min Max. rotational speed (r/min) 2000 Without brake 30.3 Moment of inertia of rotor (×10⁻⁴ kg·m²) With brake 35.6 Recommended moment of inertia 10 times or less ratio of the load and the rotor 20-bit 17-bit Rotary encoder specifications Incrementa Absolute

1048576

 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.

,
24.5 or more
80 or less
25 or less
1.3±10 %
2 or more
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

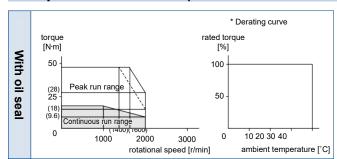
- For details of Note 1 to Note 5, refer to P.182, P.183.
- Dimensions of Driver, refer to P.45.
- *1 Motor specifications:

200 V MGME 2.0 kW [Middle inertia, Middle capacity]

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

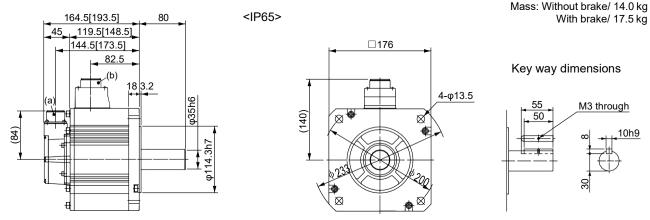
Torque characteristics (at AC200 V of power voltage < Dotted line represents the torque at 10 % less supply voltage. >)

131072



Resolution per single turn

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

			AC2	00 V	
Motor mode		IP65		MGME302GC□	MGME302SC□
	1	IP67		MGME302G1□	MGME302S1□
A I! I- I -	Model	Model A5II, A5 series		MFD♦	TB3A2
Applicable driver *	No.	A5IIE, A5E series		MFD ⊘TB3A2E	-
unver	Fr	ame syml	bol	F-fr	ame
Power supp	ly capacit	y	(kVA)	4	.5
Rated outpu	ıt		(W)	30	00
Rated torqu	е		(N·m)	28	3.7
Momentary	Max. peal	torque	(N·m)	71.7	
Rated curre	nt	(/	A(rms))	22.6	
Max. current (A(o-p))			8	0	
Regenerative brake Withou		Without	option	No limit Note)2	
frequency (time	es/min)Note)1	te)1 DV0P4285×2		No limit Note)2	
Rated rotati	onal spee	d	(r/min)	1000	
Max. rotatio	nal speed		(r/min)	2000	
Moment of i	nertia	Without	brake	48.4	
of rotor (×10)⁻⁴ kg·m²)	With b	rake	53.7	
Recommended moment of inertia ratio of the load and the rotor Note)3		10 times	s 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.

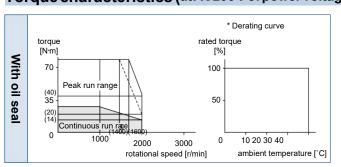
Static friction torque (N·m)	58.8 or more
Engaging time (ms)	150 or less
Releasing time (ms) Note)4	50 or less
Exciting current (DC) (A)	1.4±10 %
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

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

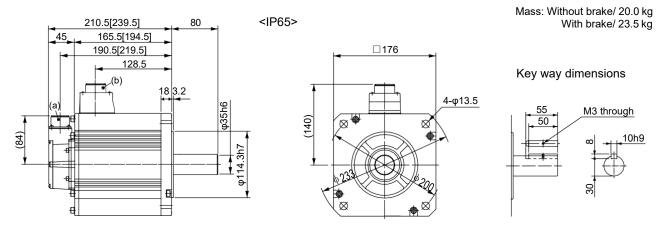
D	Radial load P-direction (N)	2058
During assembly	Thrust load A-direction (N)	980
During	Thrust load B-direction (N)	1176
	Radial load P-direction (N)	1470
operation	Thrust load A, B-direction (N)	490

- 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 \iff 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]

			AC2	00 V
		IP65	-	-
Motor model *1		IP67	MGME452G1□	MGME452S1□
A I' I. I .	Model	A5 II , A5 series	MFD⇔	TB3A2
Applicable *2	No.	A5IIE, A5E series	MFD ⊘TB3A2 E	_
divei	Fr	ame symbol	F-fra	ame
Power supply	capacit	y (kVA)	7	.5
Rated output		(W)	45	00
Rated torque		(N·m)	43.0	
Momentary Ma	ax. peal	k torque (N·m)	107	
Rated current		(A(rms))	29.7	
Max. current		(A(o-p))	11	10
Regenerative	brake	Without option	No limit Note)2	
frequency (times/r	nin)Note)1	DV0P4285×2	No limit Note)2	
Rated rotation	al spee	d (r/min)	1000	
Max. rotationa	l speed	(r/min)	2000	
Moment of ine	rtia	Without brake	79	0.1
of rotor (×10 ⁻⁴	kg·m²)	With brake	84.4	
Recommended moment of inertia ratio of the load and the rotor Note)3			10 times	s or less
Rotary encoder specifications Note)5		20-bit Incremental	17-bit Absolute	
R	esolutio	n 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.

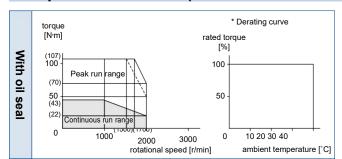
Static friction torque (N·m)	58.8 or more
Engaging time (ms)	150 or less
Releasing time (ms) Note)4	50 or less
Exciting current (DC) (A)	1.4±10 %
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

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

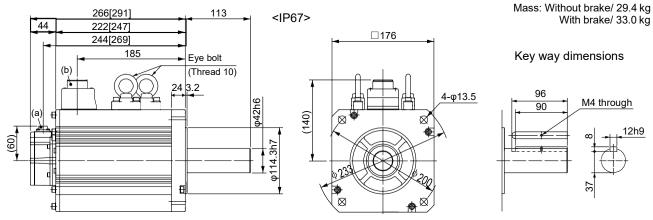
	,	,
During assembly During operation	Radial load P-direction (N)	2058
	Thrust load A-direction (N)	980
	Thrust load B-direction (N)	1176
	Radial load P-direction (N)	1470
	Thrust load A, B-direction (N)	490

- 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 \(\times \) 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.

200 V MGME 6.0 kW [Middle inertia, Middle capacity]

Motor Specifications

Specifications

				AC2	00 V
Matananalah	IP65		-	-	
Motor model *1		IP67		MGME602G1□	MGME602S1
	Model	A5 II , A5 series		MGD ♦TC3B 4	
Applicable driver *2	No.	A5IIE, A5E serie	s	_	_
unver	Fı	ame symbol		G-frame	
Power supply	capacit	y (kVA	١)	9	.0
Rated output		(V)	/)	60	00
Rated torque		(N·m	1)	57	' .3
Momentary Ma	ax. peal	k torque (N⋅m	1)	143	
Rated current		(A(rms))	38.8	
Max. current		(A(o-p))	149	
Regenerative brake frequency (times/min)Note)1		Without option	n No limit Note)2		t Note)2
		DV0P4285×4		No limit Note)2	
Rated rotation	al spee	d (r/mir	1)	1000	
Max. rotationa	l speed	(r/mir	1)	2000	
Moment of ine		Without brake	;	101	
of rotor (×10 ⁻⁴ kg·m ²)		With brake		107	
Recommended moment of inertia ratio of the load and the rotor Note)3			3	10 times	s or less
Rotary encoder specifications Note)5		5	20-bit Incremental	17-bit Absolute	
Resolution per single turn			n	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.

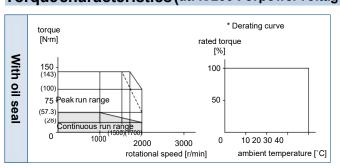
Static friction torque (N·m)	58.8 or more
Engaging time (ms)	150 or less
Releasing time (ms) Note)4	50 or less
Exciting current (DC) (A)	1.4±10 %
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

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

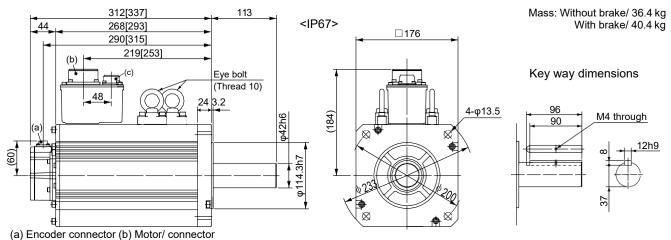
D. min a	Radial load P-direction (N)	2058
During assembly	Thrust load A-direction (N)	980
	Thrust load B-direction (N)	1176
During	Radial load P-direction (N)	1764
operation	Thrust load A, B-direction (N)	588

- 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 \diamondsuit 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



- (c) Brake connector (only with brake)
- * Figures in [] represent the dimensions with brake.

<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.

			AC2	00 V
		IP65	MHME102GC□	MHME102SC□
Motor model *1		IP67	MHME102G1□	MHME102S1□
A 1: 1- 1 -	Model	A5 II , A5 series	MDD<	T3530
Applicable *2	No.	A5IIE, A5E series	MDD ⇔T3530E	-
unver	Fr	rame symbol	D-fr	ame
Power supply	capacit	y (kVA)	1	.8
Rated output		(W)	10	00
Rated torque		(N·m)	4.	77
Momentary Ma	ax. peal	k torque (N·m)	14.3	
Rated current		(A(rms))	5.7	
Max. current		(A(o-p))	2	4
Regenerative	Regenerative brake		83	
frequency (times/r	nin)Note)1	DV0P4284	No limit Note)2	
Rated rotation	al spee	d (r/min)	2000	
Max. rotationa	l speed	(r/min)	3000	
Moment of ine	rtia	Without brake	24.7	
of rotor (×10 ⁻⁴	kg·m²)	With brake	26.0	
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
R	esolutic	n 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.

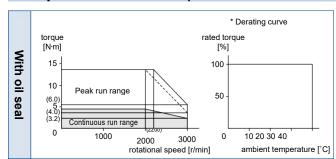
Static friction torque (N·m)	4.9 or more
Engaging time (ms)	80 or less
Releasing time (ms) Note)4	70 or less
Exciting current (DC) (A)	0.59±10 %
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

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

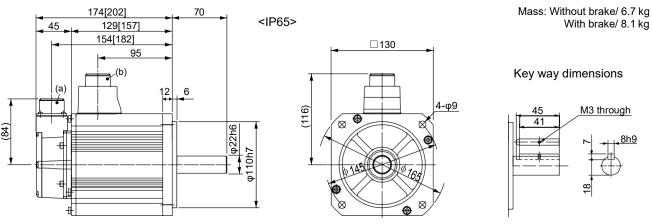
	,	,
	Radial load P-direction (N)	980
ouring ssembly	Thrust load A-direction (N)	588
	Thrust load B-direction (N)	686
During	Radial load P-direction (N)	490
peration	Thrust load A, B-direction (N)	196
	Radial load P-direction (N)	490

- 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 \(\times \) 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.

200 V MHME 1.5 kW [High inertia, Middle capacity]

Motor Specifications

Specifications

				AC2	00 V
Matanasalal		IP65		MHME152GC□	MHME152SC
Motor model		IP67		MHME152G1□	MHME152S1
A I' I. I .	Model	A5 II , A5	series	MDD ◇T5540	
Applicable driver *2	No.	A5 II E, A5	5E series	MDD ◇T5540E	-
unven	Fr	ame sym	ıbol	D-fr	ame
Power suppl	y capacit	у	(kVA)	2	.3
Rated output	t		(W)	15	00
Rated torque)		(N·m)	7.	16
Momentary N	Max. peal	k torque	(N·m)	21.5	
Rated currer	nt	(A(rms))	9.4	
Max. current (A(o-p))		40			
Regenerative	e brake	Without	option	22	
frequency (time	s/min)Note)1	DV0P	4284	130	
Rated rotation	nal spee	d	(r/min)	2000	
Max. rotation	nal speed		(r/min)	30	00
Moment of ir	nertia	Without	t brake	37.1	
of rotor (×10 ⁻⁴ kg·m ²)		With b	orake	38.4	
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 pe		n per sin	gle 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.

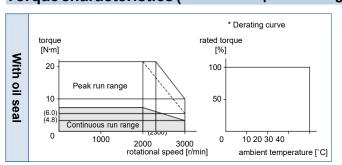
Static friction torque (N·m)	13.7 or more
Engaging time (ms)	100 or less
Releasing time (ms) Note)4	50 or less
Exciting current (DC) (A)	0.79±10 %
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

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

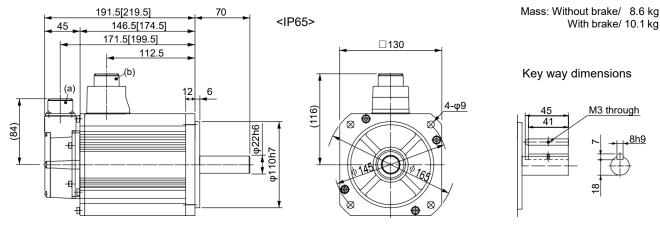
Di	Radial load P-direction (N)	980
During assembly	Thrust load A-direction (N)	588
During	Thrust load B-direction (N)	686
	Radial load P-direction (N)	490
operation	Thrust load A, B-direction (N)	196

- 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 \diamondsuit 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. >)



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



(a) Encoder connector

Dimensions

- (b) Motor/Brake connector
- * Figures in [] represent the dimensions with brake.

[Unit: mm]

			AC2	00 V	
Madamanadal		IP65	MHME202GC□	MHME202SC□	
Motor model *1		IP67	MHME202G1□	MHME202S1□	
A 1: 1- 1	Model	A5 II , A5 series	MED◇	T7364	
Applicable driver *2	No.	A5IIE, A5E series	MED ◇T7364 E	-	
unver	Fr	rame symbol	E-fra	ame	
Power supply	capacit	y (kVA)	3.	.3	
Rated output		(W)	20	00	
Rated torque		(N·m)	9.	9.55	
Momentary Ma	ax. peal	k torque (N·m)	28.6		
Rated current		(A(rms))	11.1		
Max. current		(A(o-p))	47		
Regenerative	brake	Without option	45		
frequency (times/n	nin)Note)1	DV0P4285	142		
Rated rotation	al spee	d (r/min)	2000		
Max. rotationa	l speed	(r/min)	3000		
Moment of ine	rtia	Without brake	57.8		
of rotor (×10 ⁻⁴	kg·m²)	With brake	59.6		
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.

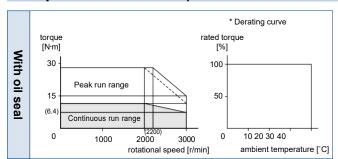
Static friction torque (N·m)	24.5 or more
Engaging time (ms)	80 or less
Releasing time (ms) Note)4	25 or less
Exciting current (DC) (A)	1.3±10 %
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

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

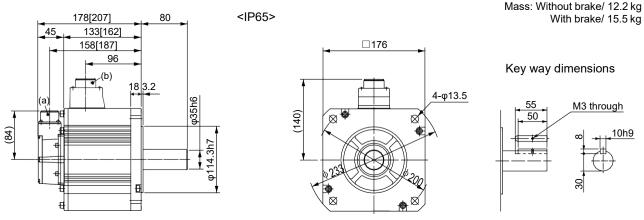
	,	,
During assembly	Radial load P-direction (N)	1666
	Thrust load A-direction (N)	784
	Thrust load B-direction (N)	980
During operation	Radial load P-direction (N)	784
	Thrust load A, B-direction (N)	343

- For details of Note 1 to Note 5, refer to P.182, P.183.
- Dimensions of Driver, refer to P.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 \(\times \) 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.

99

[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.

200 V MHME 3.0 kW [High inertia, Middle capacity]

A5 Family **Motor Specifications**

Specifications

				AC2	00 V
N 4 - 4 - 11 - 11 - 11 - 11 - 11 - 11 -		IP65		MHME302GC□	MHME302SC
Motor model		IP67		MHME302G1□	MHME302S1
A II I- I -	Model	A5 II , A5 series		MFD ◇TA390	
Applicable driver *2	No.	A5 II E, A5	5E series	MFD ◇TA390E	-
unven	Fr	ame sym	ıbol	F-fra	ame
Power supply	y capacit	у	(kVA)	4	.5
Rated output	:		(W)	30	00
Rated torque	;		(N·m)	14	.3
Momentary N	Лах. peal	k torque	(N·m)	43.0	
Rated current (A(rms))		16.0			
Max. current (A(o-p))		68			
Regenerative	e brake	Without option 19		9	
frequency (times	s/min)Note)1	e)1 DV0P4285×2		142	
Rated rotatio	nal spee	d	(r/min)	2000	
Max. rotation	al speed		(r/min)	3000	
Moment of in	ertia	Without	t brake	90.5	
of rotor (×10	4 kg·m²)	With b	orake	92.1	
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		gle 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.

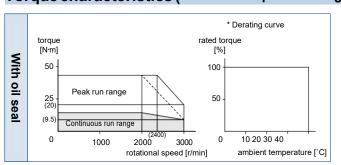
Static friction torque (N·m)	24.5 or more
Engaging time (ms)	80 or less
Releasing time (ms) Note)4	25 or less
Exciting current (DC) (A)	1.3±10 %
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

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

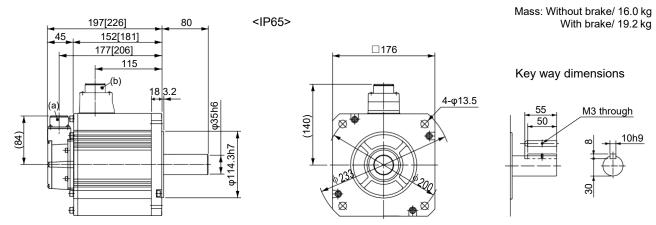
	,	,
	Radial load P-direction (N)	1666
During assembly	Thrust load A-direction (N)	784
	Thrust load B-direction (N)	980
During	Radial load P-direction (N)	784
operation	Thrust load A, B-direction (N)	343

- 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 \iff 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]

			AC2	00 V
Motor model	IP65		MHME402GC□	MHME402SC□
*1		IP67	MHME402G1□	MHME402S1□
	Model	A5 II , A5 series	MFD ♦TB3A2	
Applicable *2	No.	A5IIE, A5E series	MFD ⊘TB3A2E	-
dilvei	Fr	ame symbol	F-fra	ame
Power supply	capacit	y (kVA)	6	.0
Rated output		(W)	40	00
Rated torque		(N·m)	19).1
Momentary M	ax. peal	c torque (N⋅m)	57.3	
Rated current		(A(rms))	21.0	
Max. current		(A(o-p))	89	
Regenerative	brake	Without option 17		7
frequency (times/	min)Note)1	DV0P4285×2	125	
Rated rotation	al spee	d (r/min)	2000	
Max. rotationa	al speed	(r/min)	3000	
Moment of ine	ertia	Without brake	112	
of rotor (×10 ⁻⁴	kg·m²)	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.

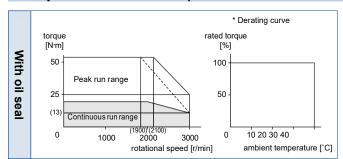
Static friction torque (N·m)	24.5 or more
Engaging time (ms)	80 or less
Releasing time (ms) Note)4	25 or less
Exciting current (DC) (A)	1.3±10 %
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

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

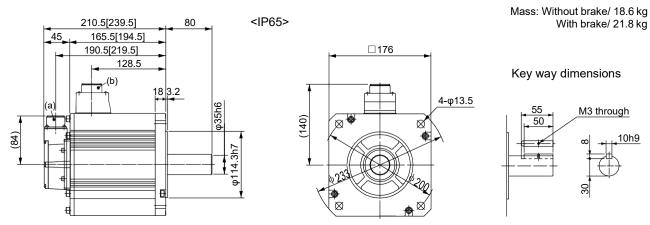
. •	, ,	/
During assembly	Radial load P-direction (N)	1666
	Thrust load A-direction (N)	784
	Thrust load B-direction (N)	980
During operation	Radial load P-direction (N)	784
	Thrust load A, B-direction (N)	343

- 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 \(\times \) 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. >)



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



(a) Encoder connector

Dimensions

- (b) Motor/Brake connector
- * Figures in [] represent the dimensions with brake.

101

[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

				AC2	00 V
Matanaaal	-1	IP65		MHME502GC□	MHME502SC□
Motor mode	∌I ∗1	IP67		MHME502G1□	MHME502S1□
Annlinelle	Model	A5 II , A5	series	MFD◇	TB3A2
Applicable driver	No.	A5 II E, A5	E series	MFD ⊘TB3A2E	-
divoi	Fr	ame syml	bol	F-fr	ame
Power supp	oly capacit	y	(kVA)	7	.5
Rated outp	ut		(W)	50	00
Rated torqu	ıe		(N·m)	23	3.9
Momentary	Max. peal	k torque	(N·m)	71.6	
Rated curre	ent	(/	A(rms))	25.9	
Max. currer	Max. current (A(o-p))			1	10
Regenerative brake		Without option 10		0	
frequency (tim	nes/min)Note)1	DV0P4285×2		76	
Rated rotat	ional spee	d	(r/min)	2000	
Max. rotation	nal speed		(r/min)	3000	
Moment of	inertia	Without	brake	16	62
of rotor (×1	0 ⁻⁴ kg·m²)	With b	rake	16	64
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	n per sing	gle 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.

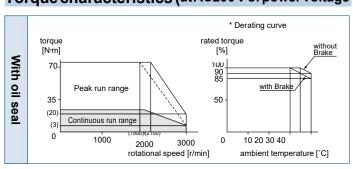
•	,
Static friction torque (N·m)	24.5 or more
Engaging time (ms)	80 or less
Releasing time (ms) Note)4	25 or less
Exciting current (DC) (A)	1.3±10 %
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

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

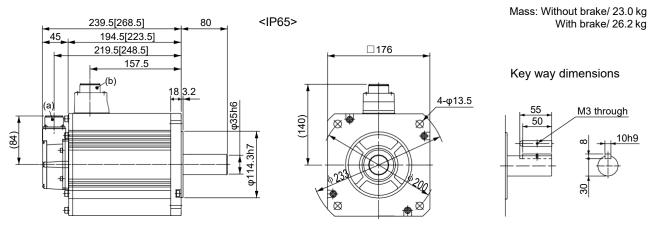
Describe	Radial load P-direction (N)	1666
During assembly	Thrust load A-direction (N)	784
,	Thrust load B-direction (N)	980
During operation	Radial load P-direction (N)	784
	Thrust load A, B-direction (N)	343

- 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 \iff 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.

102

[Unit: mm]

			AC2	00 V	
Matanasadal	IP65		-	-	
Motor model *1		IP67	MHME752G1□	MHME752S1□	
	Model	A5 II , A5 series	MGD◇	TC3B4	
Applicable driver *2	No.	A5IIE, A5E series	_	_	
unver	Fr	ame symbol	G-fr	ame	
Power supply	capacit	y (kVA)	1	1	
Rated output		(W)	75	00	
Rated torque		(N·m)	47	47.8	
Momentary Ma	ax. peal	k torque (N·m)	119		
Rated current		(A(rms))	44.0		
Max. current		(A(o-p))	16	165	
Regenerative	brake	Without option	No limit Note)2		
frequency (times/r	nin)Note)1	DV0P4285×4	No limit Note)2		
Rated rotation	al spee	d (r/min)	1500		
Max. rotationa	l speed	(r/min)	3000		
Moment of ine	rtia	Without brake	273		
of rotor (×10 ⁻⁴	kg·m²)	With brake	279		
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		
R	Resolution per single turn			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.

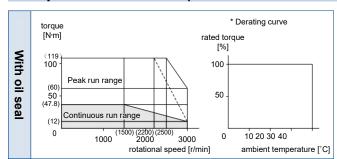
Static friction torque (N·m)	58.8 or more
Engaging time (ms)	150 or less
Releasing time (ms) Note)4	50 or less
Exciting current (DC) (A)	1.41±10 %
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

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

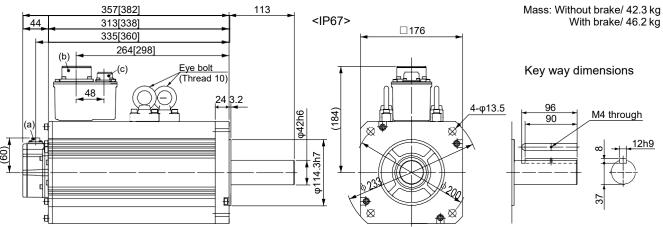
	,	,
	Radial load P-direction (N)	2058
During assembly	Thrust load A-direction (N)	980
	Thrust load B-direction (N)	1176
During	Radial load P-direction (N)	1176
operation	Thrust load A, B-direction (N)	490

- 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 \(\times \) 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

			AC4	00 V	
Motor model	IP65			MSME084GC□	MSME084SC□
wotor model *1		IP67		MSME084G1□	MSME084S1□
A II I-I .	Model	A5 II , A5 series		MDD ⇔T2412	
Applicable *2	No.	A5 II E, A5	5E series	MDD \diamondsuit T2412E	_
unven	Fr	ame sym	bol	D-fr	ame
Power supply	capacit	у	(kVA)	1	.6
Rated output			(W)	7:	50
Rated torque			(N·m)	2.	39
Momentary M	ax. peal	k torque	(N·m)	7.16	
Rated current		(A(rms))	2.4	
Max. current			(A(o-p))	1	0
Regenerative	brake	Without	option	No lim	it Note)2
frequency (times/	min)Note)1	DV0PM20048		No limit Note)2	
Rated rotation	nal spee	d	(r/min)	3000	
Max. rotationa	al speed		(r/min)	5000	
Moment of ine	ertia	Without	t brake	1.61	
of rotor (×10 ⁻⁴	kg·m²)	With b	orake	1.	93
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	
F	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.

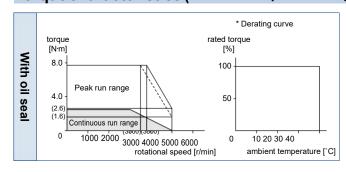
Static friction torque (N·m)	2.5 or more
Engaging time (ms)	50 or less
Releasing time (ms) Note)4	15 or less
Exciting current (DC) (A)	0.70±10 %
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

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

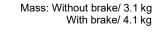
	,	,
	Radial load P-direction (N)	980
During assembly	Thrust load A-direction (N)	588
	Thrust load B-direction (N)	686
During	Radial load P-direction (N)	490
operation	Thrust load A, B-direction (N)	196

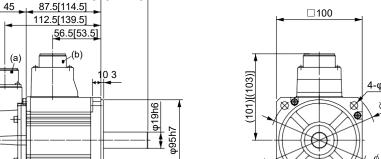
- For details of Note 1 to Note 5, refer to P.182, P.183.
- Dimensions of Driver, refer to P.44.
- *1 Motor specifications: □
- *2 The product that the end of driver model designation has "E" is "Position control type". Detail of model designation, refer to P.16.
- *3 \iff in number of applicable driver 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. >)



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





<IP65>

Key way dimensions M3 through

(a) Encoder connector

Dimensions

(a)

132.5[159.5]

- (b) Motor/Brake connector
 - * Figures in [] represent the dimensions with brake.

			AC4	00 V
		IP65	MSME104GC□	MSME104SC□
Motor model *1		IP67	MSME104G1□	MSME104S1□
	Model	A5 II , A5 series	MDD<	T3420
Applicable *2	No.	A5IIE, A5E series	MDD ⇔T3420 E	-
unvei	Fr	ame symbol	D-fr	ame
Power supply	capacit	y (kVA)	1	.8
Rated output		(W)	10	00
Rated torque		(N·m)	3.	18
Momentary Ma	ax. peal	k torque (N⋅m)	9.55	
Rated current		(A(rms))	3.3	
Max. current		(A(o-p))	14	
Regenerative	brake	Without option	No limit Note)2	
frequency (times/r	nin)Note)1	DV0PM20048	No limit Note)2	
Rated rotation	al spee	d (r/min)	3000	
Max. rotationa	l speed	(r/min)	5000	
Moment of ine	rtia	Without brake	2.03	
of rotor ($\times 10^{-4}$	kg·m²)	With brake	2.35	
Recommended moment of inertia ratio of the load and the rotor Note)3			15 times or less	
Rotary encoder specifications Note)		fications 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.

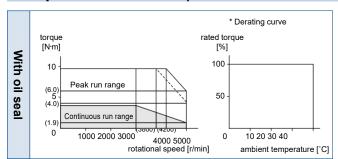
Static friction torque (N·m)	7.8 or more
Engaging time (ms)	50 or less
Releasing time (ms) Note)4	15 or less
Exciting current (DC) (A)	0.81±10 %
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

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

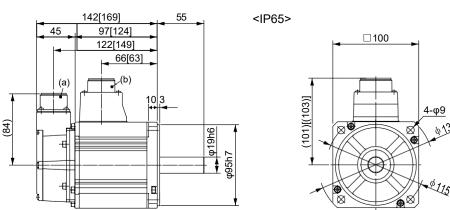
	,	,
	Radial load P-direction (N)	980
ouring ssembly	Thrust load A-direction (N)	588
	Thrust load B-direction (N)	686
During	Radial load P-direction (N)	490
peration	Thrust load A, B-direction (N)	196
	Radial load P-direction (N)	490

- 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 \(\times \) 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.)



Key way dimensions

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.

105

[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. 400 V MSME 1.5 kW [Low inertia, Middle capacity]

A5 Family **Motor Specifications**

Specifications

					AC4	00 V	
Makananadal		IP65		MSME154GC□	MSME154SC□		
Motor mode	ÐΙ ∗1		IP67		MSME154G1□	MSME154S1□	
A II Is I .		Model	A5 II , A5	series	MDD<	T3420	
Applicable driver *	÷2	No.	A5 II E, A5	E series	MDD ⊘T3420E	-	
divei		Fr	ame sym	bol	D-fr	ame	
Power supp	oly c	apacit	y	(kVA)	2	.3	
Rated outpu	ut			(W)	15	00	
Rated torqu	ıe			(N·m)	4.	77	
Momentary	Ма	x. peal	k torque	(N·m)	14	14.3	
Rated curre	ent		(A(rms))	4.2		
Max. currer	nt			(A(o-p))	18		
Regenerativ	ve b	rake	Without option		No limit Note)2		
frequency (tim	ies/m	in)Note)1	DV0PN	120048	No limit Note)2		
Rated rotati	iona	al spee	d	(r/min)	3000		
Max. rotation	nal	speed		(r/min)	5000		
Moment of	iner	tia	Without	t brake	2.84		
of rotor (×10	0 ⁻⁴ k	(g·m²)	With b	orake	3.17		
Recommended moment of inertia ratio of the load and the rotor Note)3			15 times	s or less			
Rotary encoder specifications N		Note)5	20-bit Incremental	17-bit Absolute			
Resolution per s			n per sin	gle 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.

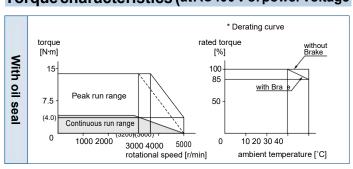
7.8 or more
50 or less
15 or less
0.81±10 %
2 or more
24±2.4

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

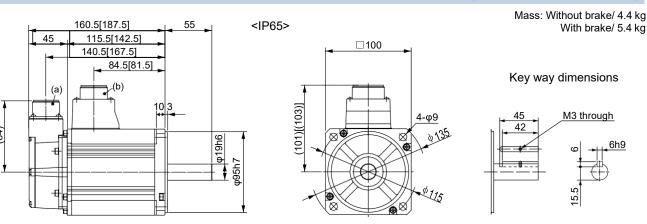
Danis	Radial load P-direction (N)	980
During assembly	Thrust load A-direction (N)	588
	Thrust load B-direction (N)	686
During	Radial load P-direction (N)	490
operation	Thrust load A, B-direction (N)	196

- 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 \iff 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.

106

[Unit: mm]

			AC400 V	
Matanasadal	IP65		MSME204GC□	MSME204SC□
Motor model *1		IP67	MSME204G1□	MSME204S1□
	Model	A5 II , A5 series	MED⇔	T4430
Applicable *2	No.	A5IIE, A5E series	MED ⇔T4430 E	-
unven	Fr	ame symbol	E-fr	ame
Power supply	capacit	y (kVA)	3	.3
Rated output		(W)	20	00
Rated torque		(N·m)	6.37	
Momentary M	ax. peal	k torque (N·m)	19.1	
Rated current (A(rms))			5.7	
Max. current (A(o-p))			24	
Regenerative brake frequency (times/min)Note)1 DV0PM20049		Without option	No limit Note)2	
		DV0PM20049	No limit Note)2	
Rated rotation	al spee	d (r/min)	3000	
Max. rotationa	ıl speed	(r/min)	5000	
Moment of ine		Without brake	3.68	
of rotor (×10 ⁻⁴	kg·m²)	With brake	4.01	
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	
R	esolutio	on 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) 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)

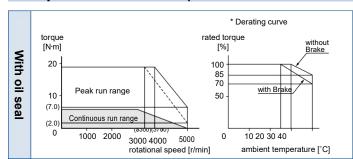
	,	,
D	Radial load P-direction (N)	980
ouring ssembly	Thrust load A-direction (N)	588
	Thrust load B-direction (N)	686
During	Radial load P-direction (N)	490
peration	Thrust load A, B-direction (N)	196
	Radial load P-direction (N)	490

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

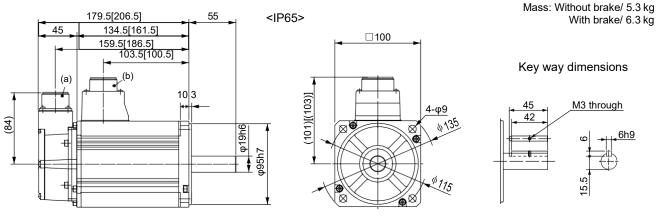
400 V MSME 2.0 kW [Low inertia, Middle capacity]

- *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 \diamondsuit 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

			AC4	00 V		
Matau	-1	IP65		MSME304GC□	MSME304SC□	
Motor model	*1	IP67		MSME304G1□	MSME304S1□	
A	Model	A5 II , A5	series	MFD ◇T544 0		
Applicable driver	No.	A5 II E, A	5E series	MFD ◇T5440 E	-	
diivoi	F	rame sym	bol	F-fr	ame	
Power supp	oly capaci	ty	(kVA)	4	.5	
Rated outp	ut		(W)	30	00	
Rated torqu	ıe		(N·m)	9.	55	
Momentary	Max. pea	ık torque	(N·m)	28.6		
Rated current (A(rms))			9.2			
Max. current (A(o-p))			3	9		
Regenerati	ve brake	Without	option	No lim	No limit Note)2	
frequency (times/min)Note)1		DV0PM20049×2		No limit Note)2		
Rated rotat	ional spe	ed	(r/min)	3000		
Max. rotation	onal speed	b	(r/min)	5000		
Moment of	inertia	Without	brake	6.50		
of rotor (×1	of rotor (×10 ⁻⁴ kg·m ²)		rake	6.85		
Recommended moment of inertia ratio of the load and the rotor Note)3			15 times	s or less		
Rotary encoder specifications Note)5		20-bit Incremental	17-bit Absolute			
	Resoluti	on per sino	gle 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.

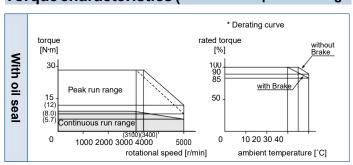
11.8 or more
11.0 01 111016
80 or less
15 or less
0.81±10 %
2 or more
24±2.4

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

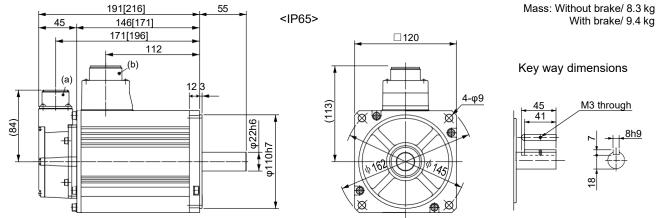
During assembly During operation	Radial load P-direction (N)	980
	Thrust load A-direction (N)	588
	Thrust load B-direction (N)	686
	Radial load P-direction (N)	490
	Thrust load A, B-direction (N)	196

- 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]

			AC400 V		
Matanasadal	IP65		MSME404GC□	MSME404SC□	
Motor model *1		IP67	MSME404G1□	MSME404S1□	
	Model	A5 II , A5 series	MFD ◇TA464		
Applicable driver *2	No.	A5 II E, A5E series	MFD \diamondsuit TA464E	-	
unver	Fr	ame symbol	F-fra	ame	
Power supply	capacit	y (kVA)	6	.8	
Rated output		(W)	40	00	
Rated torque		(N·m)	12	12.7	
Momentary Ma	ax. peal	k torque (N·m)	38.2		
Rated current		(A(rms))	9.9		
Max. current (A(o-p))			42		
Regenerative brake frequency (times/min)Note)1 DV0PM20049×2		No limit Note)2			
		DV0PM20049×2	No limit Note)2		
Rated rotation	al spee	d (r/min)	3000		
Max. rotationa	l speed	(r/min)	4500		
Moment of ine	rtia	Without brake	12.9		
of rotor ($\times 10^{-4}$	kg·m²)	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		
R	Resolution per single turn			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)

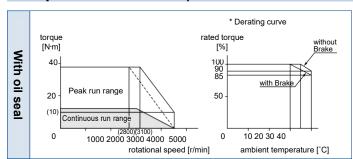
. •	7	/
During assembly	Radial load P-direction (N)	980
	Thrust load A-direction (N)	588
	Thrust load B-direction (N)	686
During operation	Radial load P-direction (N)	784
	Thrust load A, B-direction (N)	343

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

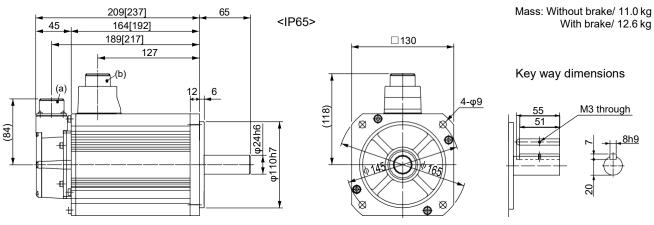
400 V MSME 4.0 kW [Low inertia, Middle capacity]

- *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 \(\times \) 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. >)



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



(a) Encoder connector

Dimensions

- (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

			AC4	00 V	
N4-4		IP65		MSME504GC□	MSME504SC□
Motor mode	.	IP67		MSME504G1□	MSME504S1□
A I! Is I .	Model	A5 II , A5 series		MFD ◇TA46 4	
Applicable driver **	No.	A5 II E, A	5E series	MFD \diamondsuit TA464E	-
unver	Fr	ame sym	bol	F-fr	ame
Power supp	ly capacit	y	(kVA)	7	.5
Rated outpu	ıt		(W)	50	00
Rated torque	е		(N·m)	15	5.9
Momentary	Max. peal	torque	(N·m)	47.7	
Rated curre	nt	(A(rms))	12.0	
Max. current (A(o-p))			5	51	
Regenerativ	e brake	Without	option	357	
frequency (time	es/min)Note)1	DV0PM20049×2		No limit Note)2	
Rated rotation	onal spee	d	(r/min)	3000	
Max. rotatio	nal speed		(r/min)	4500	
Moment of i	nertia	Without	brake	17	' .4
of rotor (×10) ⁻⁴ kg·m ²)	With b	rake	18.6	
Recommended moment of inertia ratio of the load and the rotor Note)3			15 times	s or less	
Rotary encoder specifications Note)5		20-bit Incremental	17-bit Absolute		
	Resolution	n per sin	gle 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.

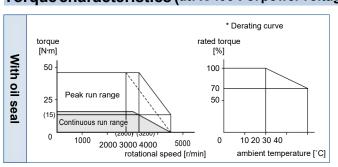
16.2 or more
110 or less
50 or less
0.90±10 %
2 or more
24±2.4

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

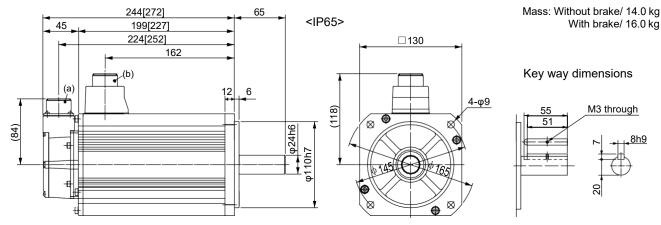
. •	,	,
	Radial load P-direction (N)	980
During assembly	Thrust load A-direction (N)	588
	Thrust load B-direction (N)	686
During	Radial load P-direction (N)	784
operation	Thrust load A, B-direction (N)	343

- 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 \iff 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. >)



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



(a) Encoder connector

Dimensions

- (b) Motor/Brake connector
- * Figures in [] represent the dimensions with brake.

[Unit: mm]

			AC4	00 V
Motor model	IP65		MDME044GC□	MDME044SC□
*1		IP67	MDME044G1□	MDME044S1□
	Model	A5 II , A5 series	MDD<	T2407
Applicable driver *2	No.	A5IIE, A5E series	MDD ⇔T2407 E	-
dilvei	Fr	rame symbol	D-fr	ame
Power supply	capacit	y (kVA)	0	.9
Rated output		(W)	40	00
Rated torque		(N·m)	1.91	
Momentary Ma	ax. peal	k torque (N·m)	5.73	
Rated current		(A(rms))	1.2	
Max. current		(A(o-p))	4.9	
Regenerative brake Without o		Without option	No limit Note)2	
frequency (times/r	nin)Note)1	DV0PM20048	No limit Note)2	
Rated rotation	al spee	d (r/min)	2000	
Max. rotationa	l speed	(r/min)	3000	
Moment of ine	rtia	Without brake	1.61	
of rotor (×10 ⁻⁴	kg·m²)	With brake	1.93	
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.

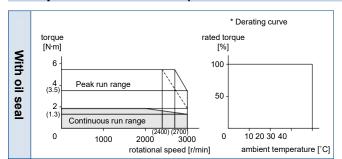
Static friction torque (N·m)	2.5 or more
Engaging time (ms)	50 or less
Releasing time (ms) Note)4	15 or less
Exciting current (DC) (A)	0.70±10 %
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

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

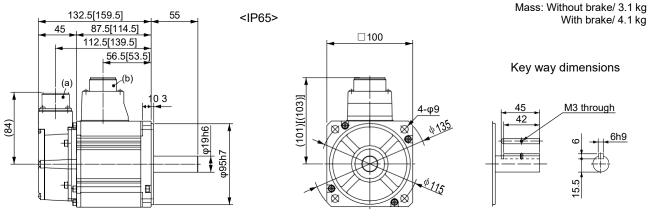
	,	,
During assembly	Radial load P-direction (N)	980
	Thrust load A-direction (N)	588
	Thrust load B-direction (N)	686
During operation	Radial load P-direction (N)	490
	Thrust load A, B-direction (N)	196

- 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 \diamondsuit 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.

111

[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

				AC4	00 V
Motor mode	~!	IP65		MDME064GC□	MDME064SC□
	ÐI ∀1	IP67		MDME064G1□	MDME064S1□
Annlinable	Mode	A5 II , A5	series	MDD<	T2407
Applicable driver	No.	A5 II E, A	5E series	MDD ⇔T2407 E	-
diivoi		Frame sym	ıbol	D-fr	ame
Power supp	oly capac	ity	(kVA)	1	.2
Rated outpu	ut		(W)	60	00
Rated torqu	ie		(N·m)	2.	86
Momentary	Мах. ре	ak torque	(N·m)	8.59	
Rated curre	ent	((A(rms))	1.5	
Max. currer	nt		(A(o-p))	6.5	
Regenerativ	ve brake	Without	option	No lim	t Note)2
frequency (tim	es/min)Note	DV0PM	120048	No limit Note)2	
Rated rotati	ional spe	ed	(r/min)	2000	
Max. rotation	nal spee	ed	(r/min)	3000	
Moment of	inertia	Withou	t brake	2.	03
of rotor (×10 ⁻⁴ kg·m ²)) With I	orake	2.35	
Recommended moment of inertia ratio of the load and the rotor Note)3		10 times	s or less		
Rotary encoder specifications		Note)5	20-bit Incremental	17-bit Absolute	
Resolution per single tu			gle turn	1048576	131072

400 V MDME 600 W [Middle inertia, Middle capacity]

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.

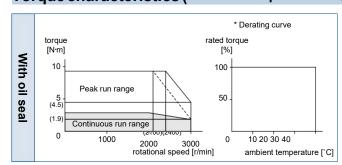
Static friction torque (N·m)	2.5 or more
Engaging time (ms)	50 or less
Releasing time (ms) Note)4	15 or less
Exciting current (DC) (A)	0.70±10 %
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

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

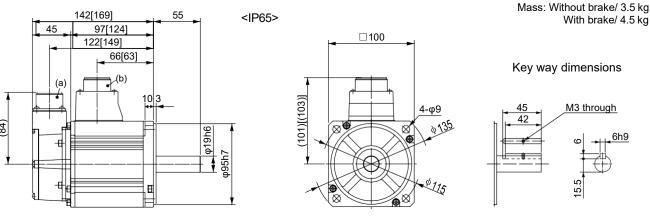
Danis	Radial load P-direction (N)	980
During assembly	Thrust load A-direction (N)	588
	Thrust load B-direction (N)	686
During	Radial load P-direction (N)	490
operation	Thrust load A, B-direction (N)	196

- 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 \diamondsuit 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.

112

[Unit: mm]

A5 Family

Specifications

				00 V	
Motor model	IP65		MDME104GC□	MDME104SC□	
*1		IP67	MDME104G1□	MDME104S1□	
A II I. I .	Model	A5 II , A5 series	MDD<	T2412	
Applicable driver *2	No.	A5IIE, A5E series	MDD ⊘T2412E	_	
unver	Fr	ame symbol	D-fr	ame	
Power supply	capacit	y (kVA)	1	.8	
Rated output		(W)	10	00	
Rated torque		(N·m)	4.	77	
Momentary M	ax. peal	k torque (N⋅m)	14.3		
Rated current		(A(rms))	2.8		
Max. current		(A(o-p))	1	12	
Regenerative	brake	Without option	No lim	No limit Note)2	
frequency (times/r	min)Note)1	DV0PM20048	No limit Note)2		
Rated rotation	al spee	d (r/min)	2000		
Max. rotationa	l speed	(r/min)	3000		
Moment of ine	rtia	Without brake	4.60		
of rotor (×10 ⁻⁴	kg·m²)	With brake	5.90		
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		
R	Resolution per single turn			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.

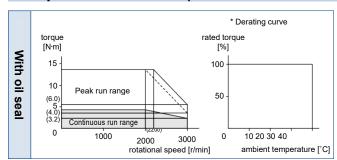
Static friction torque (N·m)	4.9 or more
Engaging time (ms)	80 or less
Releasing time (ms) Note)4	70 or less
Exciting current (DC) (A)	0.59±10 %
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

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

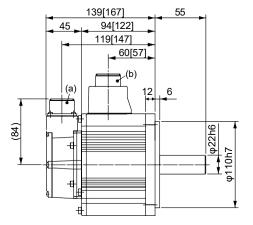
. •	7	/
During assembly	Radial load P-direction (N)	980
	Thrust load A-direction (N)	588
	Thrust load B-direction (N)	686
During operation	Radial load P-direction (N)	490
	Thrust load A, B-direction (N)	196

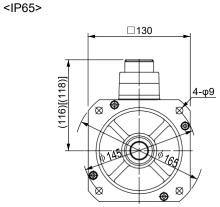
- For details of Note 1 to Note 5, refer to P.182, P.183.
- Dimensions of Driver, refer to P.44.
- *1 Motor specifications:
- *2 The product that the end of driver model designation has "E" is "Position control type". Detail of model designation, refer to P.16.
- *3 \(\times \) in number of applicable 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.)





Key way dimensions M3 through

- (a) Encoder connector
- (b) Motor/Brake connector
- * Figures in [] represent the dimensions with brake.

[Unit: mm]

Mass: Without brake/ 5.2 kg

With brake/ 6.7 kg

<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

				AC4	00 V	
Motor model		IP65		MDME154GC□	MDME154SC	
Motor mod	1 e i *1		IP67		MDME154G1□	MDME154S1
A 1: 1		Model	odel A5 II , A5 series		MDD♦	T3420
Applicable driver	*2	No.	A5 II E, A5	E series	MDD ◇T3420E	-
dilvoi		Fr	ame sym	bol	D-fr	ame
Power sup	ply c	capacity	/	(kVA)	2	.3
Rated outp	out			(W)	15	00
Rated torq	ue			(N·m)	7.	16
Momentar	у Ма	x. peak	torque	(N·m)	21.5	
Rated curr	ent		(A(rms))	4.7	
Max. current (A(o-p))			20			
Regenerative brake Without		Without	option	No limit Note)2		
frequency (ti	mes/m	in)Note)1	DV0PM	20048	No limit Note)2	
Rated rota	tiona	al spee	d	(r/min)	2000	
Max. rotati	onal	speed		(r/min)	3000	
Moment of	f iner	tia	Without	brake	6.70	
of rotor (×10 ⁻⁴ kg·m²) With brak		rake	7.99			
Recommended moment of inertia ratio of the load and the rotor Note)3		10 times	s or less			
Rotary encoder specifications Note)5		20-bit Incremental	17-bit Absolute			
Resolution per single turn		gle turn	1048576	131072		

400 V MDME 1.5 kW [Middle inertia, Middle capacity]

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.

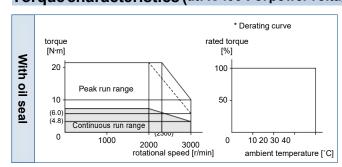
•	,
Static friction torque (N·m)	13.7 or more
Engaging time (ms)	100 or less
Releasing time (ms) Note)4	50 or less
Exciting current (DC) (A)	0.79±10 %
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

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

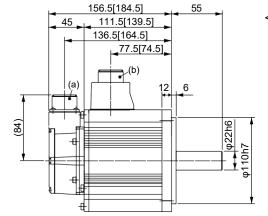
Danis	Radial load P-direction (N)	980
During assembly	Thrust load A-direction (N)	588
	Thrust load B-direction (N)	686
During	Radial load P-direction (N)	490
operation	Thrust load A, B-direction (N)	196

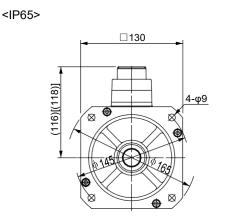
- For details of Note 1 to Note 5, refer to P.182, P.183.
- Dimensions of Driver, refer to P.44.
- *1 Motor specifications: □
- *2 The product that the end of driver model designation has "E" is "Position control type". Detail of model designation, refer to P.16.
- *3 \iff in number of applicable driver represents the series. For more information about the part number, please refer to P.16.

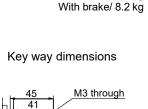
Torque characteristics (at AC400 V of power voltage < Dotted line represents the torque at 10 % less supply voltage. >)



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







Mass: Without brake/ 6.7 kg

- (a) Encoder connector
- (b) Motor/Brake connector
- * Figures in [] represent the dimensions with brake.

[Unit: mm]

			AC4	00 V
		IP65	MDME204GC□	MDME204SC□
Motor model *1		IP67	MDME204G1□	MDME204S1□
A	Model	A5 II , A5 series	MED ◇ T4430	
Applicable driver *2	No.	A5IIE, A5E series	MED ◇T4430 E	-
unver	Fr	ame symbol	E-fr	ame
Power supply	capacit	y (kVA)	3	.3
Rated output		(W)	20	00
Rated torque		(N·m)	9.55	
Momentary Ma	ax. peal	k torque (N⋅m)	28.6	
Rated current		(A(rms))	5.9	
Max. current		(A(o-p))	25	
Regenerative l	orake	Without option	No limit Note)2	
frequency (times/m	nin)Note)1	DV0PM20049	No limit Note)2	
Rated rotations	al spee	d (r/min)	2000	
Max. rotational	speed	(r/min)	3000	
Moment of ine	rtia	Without brake	8.72	
of rotor (×10 ⁻⁴ l	kg·m²)	With brake	10.0	
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)	13.7 or more
Engaging time (ms)	100 or less
Releasing time (ms) Note)4	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)

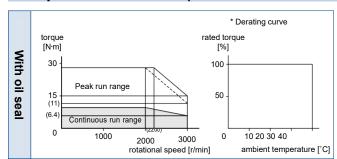
	,	,
Di	Radial load P-direction (N)	980
During assembly	Thrust load A-direction (N)	588
uooombiy	Thrust load B-direction (N)	686
During	Radial load P-direction (N)	490
operation	Thrust load A, B-direction (N)	196

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

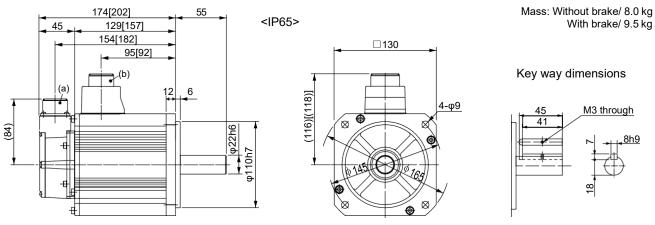
400 V MDME 2.0 kW [Middle inertia, Middle capacity]

- *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 \(\times \) 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.)



115

- (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

				AC4	00 V
Motor mode	-1	IP65		MDME304GC□	MDME304SC□
	el * 1	IP67		MDME304G1□	MDME304S1□
A 1: 1	Model	odel A5II, A5 series		MFD◇	T5440
Applicable driver	No.	A5 II E, A	5E series	MFD ◇T5440 E	-
diivoi	F	rame sym	bol	F-fra	ame
Power supp	oly capacit	ty	(kVA)	4	.5
Rated outpo	ut		(W)	30	00
Rated torqu	ie		(N·m)	14	.3
Momentary	Max. pea	k torque	(N·m)	43.0	
Rated curre	ent	(A(rms))	8.7	
Max. currer	nt		(A(o-p))	37	
Regenerativ	ve brake	Without	option	No limi	t Note)2
frequency (tim	es/min)Note)1	DV0PM2	20049×2	No limit Note)2	
Rated rotat	ional spee	ed	(r/min)	2000	
Max. rotation	nal speed	i	(r/min)	3000	
Moment of	inertia	Without	t brake	12.9	
of rotor (×10 ⁻⁴ kg·m ²) With br			orake	14.2	
Recommended moment of inertia ratio of the load and the rotor Note)3			10 times	s or less	
Rotary encoder specifications Note		Note)5	20-bit Incremental	17-bit Absolute	
Resolution per single tur			gle 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.

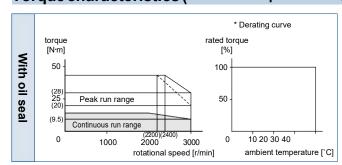
16.2 or more
110 or less
50 or less
0.90±10 %
2 or more
24±2.4

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

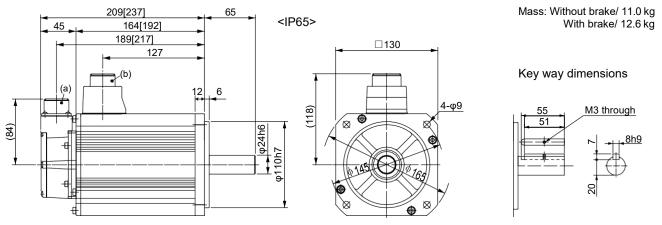
Describe	Radial load P-direction (N)	980
During assembly	Thrust load A-direction (N)	588
,	Thrust load B-direction (N)	686
During	Radial load P-direction (N)	784
operation	Thrust load A, B-direction (N)	343

- 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 \iff 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.

116

[Unit: mm]

			AC4	00 V	
Matanasadal		IP65	MDME404GC□	MDME404SC□	
Motor model *1		IP67	MDME404G1□	MDME404S1□	
A II I. I.	Model	A5 II , A5 series	MFD◇	TA464	
Applicable driver *2	No.	A5 II E, A5E series	MFD ◇TA464E	-	
unver	Fı	rame symbol	F-fra	ame	
Power supply	capacit	y (kVA)	6	.8	
Rated output		(W)	40	00	
Rated torque		(N·m)	19.1		
Momentary Ma	ax. pea	k torque (N⋅m)	57.3		
Rated current		(A(rms))	10.6		
Max. current		(A(o-p))	4	45	
Regenerative	brake	Without option	No limit Note)2		
frequency (times/r	nin)Note)1	DV0PM20049×2	No limit Note)2		
Rated rotation	al spee	d (r/min)	2000		
Max. rotationa	l speed	(r/min)	3000		
Moment of ine	rtia	Without brake	37.6		
of rotor (×10 ⁻⁴	kg·m²)	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.

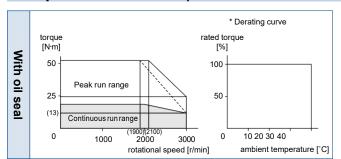
Static friction torque (N·m)	24.5 or more
Engaging time (ms)	80 or less
Releasing time (ms) Note)4	25 or less
Exciting current (DC) (A)	1.3±10 %
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

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

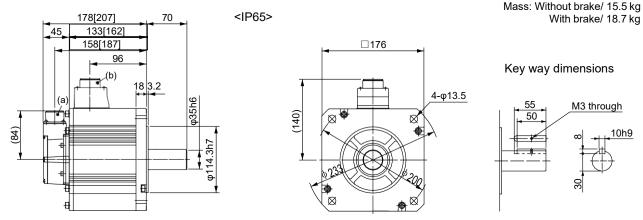
. •	, ,	/
During assembly	Radial load P-direction (N)	1666
	Thrust load A-direction (N)	784
	Thrust load B-direction (N)	980
During operation	Radial load P-direction (N)	784
	Thrust load A, B-direction (N)	343

- 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 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

				AC4	00 V	
Motor model		IP65		MDME504GC□	MDME504SC□	
	±1 ∗1		IP67		MDME504G1□	MDME504S1□
Applicable	М	Model A5II, A5 series		MFD◇	TA464	
Applicable driver	N N	lo.	A5 II E, A	5E series	MFD ◇TA464E	-
diivoi		Fr	ame sym	bol	F-frame	
Power supp	oly ca	pacit	y	(kVA)	7.	.5
Rated outpo	ut			(W)	50	00
Rated torqu	ıe			(N·m)	23	3.9
Momentary	Мах.	peal	torque	(N·m)	71.6	
Rated curre	ent		(A(rms))	13.0	
Max. currer	nt			(A(o-p))	55	
Regenerativ	ve bra	ake	Without	option	12	20
frequency (times/min)Note)1		Note)1	DV0PM2	.0049×2	No limit Note)2	
Rated rotat	ional	spee	d	(r/min)	2000	
Max. rotation	onal s	peed		(r/min)	3000	
Moment of	inertia	а	Without	brake	48.0	
of rotor (×1	of rotor (×10 ⁻⁴ kg·m ²) With brake			rake	53.3	
Recommended moment of inertia ratio of the load and the rotor Note)3			10 times	s or less		
Rotary encoder specifications Note)5		20-bit Incremental	17-bit Absolute			
	Resolution per single turn			1048576	131072	

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

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.

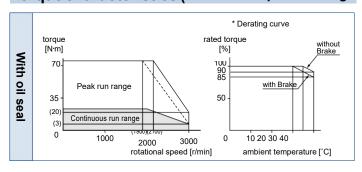
Static friction torque (N·m)	24.5 or more
Engaging time (ms)	80 or less
Releasing time (ms) Note)4	25 or less
Exciting current (DC) (A)	1.3±10 %
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4
	-

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

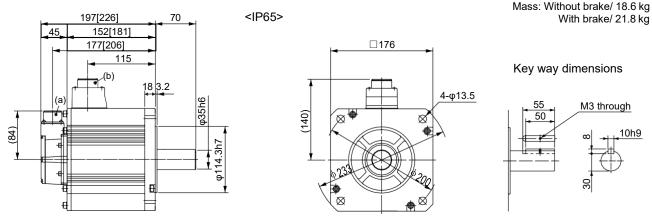
Danis	Radial load P-direction (N)	1666
During assembly	Thrust load A-direction (N)	784
	Thrust load B-direction (N)	980
During	Radial load P-direction (N)	784
operation	Thrust load A, B-direction (N)	343

- 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 \diamondsuit 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. >)



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



(a) Encoder connector

Dimensions

- (b) Motor/Brake connector
- * Figures in [] represent the dimensions with brake.

[Unit: mm]

			AC400 V	
IP65		-	-	
Motor model *1		IP67	MDME754G1□	MDME754S1□
A II I- I -	Model	A5 II , A5 series	MGD ⇔TB4A 2	
Applicable *2	No.	A5 II E, A5E series	-	-
dilvei	Fı	rame symbol	G-fr	ame
Power supply	capacit	y (kVA)	1	1
Rated output		(W)	75	00
Rated torque		(N·m)	47.8	
Momentary M	ax. pea	k torque (N·m)	119	
Rated current (A(rms))			22	
Max. current (A(o-p))			83	
Regenerative brake Without option		No limit Note)2		
frequency (times/r	min)Note)1	DV0PM20049×3	No limit Note)2	
Rated rotation	al spee	d (r/min)	1500	
Max. rotationa	l speed	(r/min)	3000	
Moment of ine	ertia	Without brake	101	
of rotor (×10 ⁻⁴	kg·m²)	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	
R	Resolution per single turn			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)

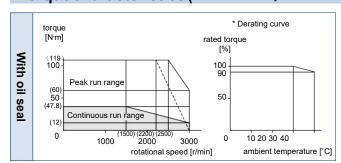
,	,
Radial load P-direction (N)	2058
Thrust load A-direction (N)	980
Thrust load B-direction (N)	1176
Radial load P-direction (N)	1176
Thrust load A, B-direction (N)	490
	Thrust load A-direction (N) Thrust load B-direction (N) Radial load P-direction (N)

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

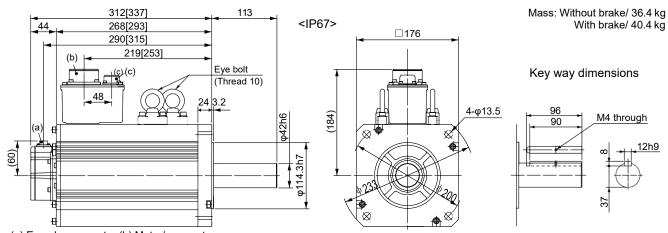
400 V MDME 7.5 kW [Middle inertia, Middle capacity]

- *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 \(\times \) 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.

119

Specifications

				AC4	00 V
	IP65			-	-
Motor model *1		IP67		MDMEC14G1□	MDMEC14S1
	Model	A5 II , A5	series	MHD♦	TB4A2
Applicable driver *2	No.	A5 II E, A	5E series	_	-
ulivei -	Fr	ame sym	ıbol	H-fr	ame
Power supply	capacit	у	(kVA)	1	7
Rated output			(W)	110	000
Rated torque			(N·m)	7	0
Momentary Ma	ax. peal	k torque	(N·m)	175	
Rated current		((A(rms))	27.1	
Max. current (A(o-p))			101		
Regenerative	brake	Without	option	No limit Note)2	
frequency (times/r	min)Note)1	DV0PM20059		No limit Note)2	
Rated rotation	al spee	d	(r/min)	1500	
Max. rotationa	l speed		(r/min)	2000	
Moment of ine	ertia	Withou	t brake	212	
of rotor (×10 ⁻⁴ kg·m ²)		With brake		220	
Recommended moment of inertia ratio of the load and the rotor Note)3			10 times	s or less	
Rotary encoder specifications Note)5		20-bit Incremental	17-bit Absolute		
R	esolutio	n per sin	gle 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.

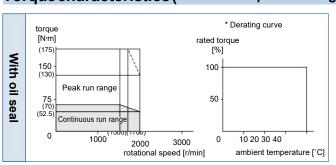
100 or more
300 or less
140 or less
1.08±10 %
2 or more
24±2.4

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

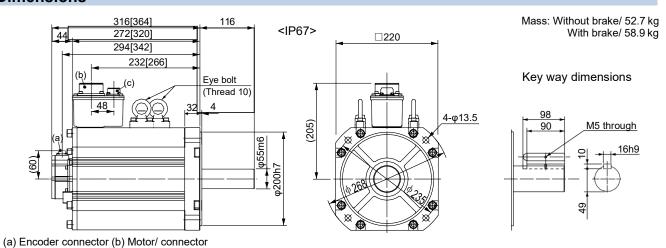
During assembly	Radial load P-direction (N)	4508
	Thrust load A-direction (N)	1470
,	Thrust load B-direction (N)	1764
During	Radial load P-direction (N)	2254
operation	Thrust load A, B-direction (N)	686

- 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 \iff 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



- (c) Brake connector (only with brake)
- * Figures in [] represent the dimensions with brake.

<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.

120

			AC400 V	
IP65		-	-	
Motor model *1		IP67	MDMEC54G1□	MDMEC54S1□
Model		A5 II , A5 series	MHD ⇔TB4A2	
Applicable driver *2	No.	A5IIE, A5E series	-	-
unver	Fr	ame symbol	H-fr	ame
Power supply	capacit	y (kVA)	2	2
Rated output		(W)	150	000
Rated torque		(N·m)	95.5	
Momentary Ma	x. peal	k torque (N⋅m)	224	
Rated current		(A(rms))	33.1	
Max. current (A(o-p))		118		
Regenerative l	orake	Without option	No limit Note)2	
frequency (times/m	nin)Note)1	DV0PM20059	No limit Note)2	
Rated rotations	al spee	d (r/min)	1500	
Max. rotational	speed	(r/min)	2000	
Moment of ine	rtia	Without brake	302	
of rotor (×10 ⁻⁴ l	⟨g·m²)	With brake	211	
Recommended moment of inertia ratio of the load and the rotor Note)3			10 times	s or less
Rotary encoder specifications Note)5		20-bit Incremental	17-bit Absolute	
Re	esolutic	n 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.

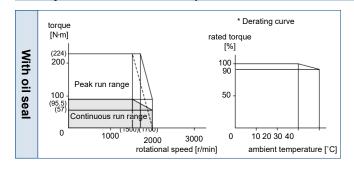
Static friction torque (N·m)	100 or more
Engaging time (ms)	300 or less
Releasing time (ms) Note)4	140 or less
Exciting current (DC) (A)	1.08±10 %
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

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

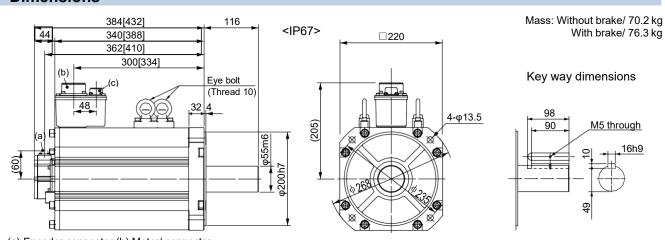
During assembly During operation	Radial load P-direction (N)	4508
	Thrust load A-direction (N)	1470
	Thrust load B-direction (N)	1764
	Radial load P-direction (N)	2254
	Thrust load A, B-direction (N)	686

- 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 \diamondsuit 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

400 V **MFME** 1.5 kW

			AC4	00 V	
Matau	-1	IP65		-	-
Motor mod	*1	IP67		MFME154G1□	MFME154S1□
A 11 1.1	Model	A5 II , A5 series		MDD ◇T3420	
Applicable driver	*2 No.	A5IIE, A5E series		MDD ⇔T3420 E	-
unver	Fi	ame sym	bol	D-fr	ame
Power supp	oly capacit	у	(kVA)	2	.4
Rated outp	ut		(W)	15	00
Rated torqu	ıe		(N·m)	7.	16
Momentary	Max. pea	k torque	(N·m)	21.5	
Rated current (A(rms))			3.8		
Max. current (A(o-p))			1	6	
Regenerati	ve brake	Without	option	10	00
frequency (tim	nes/min)Note)1	DV0PM20048		No limit Note)2	
Rated rotational speed (r/min)		(r/min)	2000		
Max. rotation	onal speed		(r/min)	3000	
Moment of	inertia	Without	brake	18.2	
of rotor (×10 ⁻⁴ kg·m ²) With		With b	orake	23.5	
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		gle 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.

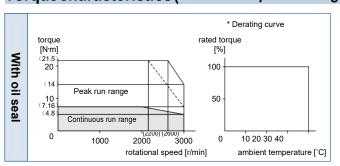
Static friction torque (N·m)	7.8 or more
Engaging time (ms)	80 or less
Releasing time (ms) Note)4	35 or less
Exciting current (DC) (A)	0.83±10 %
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

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

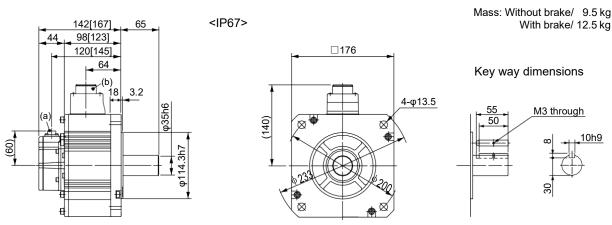
During assembly During operation	Radial load P-direction (N)	980
	Thrust load A-direction (N)	588
	Thrust load B-direction (N)	686
	Radial load P-direction (N)	490
	Thrust load A, B-direction (N)	196

- 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 \diamondsuit 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]

			AC4	00 V
Matananadal	IP65		-	-
Motor model *1		IP67	MFME254G1□	MFME254S1□
A I' I. I .	Model	A5 II , A5 series	MED ◇ T4430	
Applicable driver *2	No.	A5IIE, A5E series	MED ◇T4430 E	-
unvei	Fr	ame symbol	E-fr	ame
Power supply of	capacit	y (kVA)	3	.9
Rated output		(W)	25	00
Rated torque		(N·m)	11.9	
Momentary Ma	ıx. peal	k torque (N⋅m)	30.4	
Rated current		(A(rms))	6.7	
Max. current		(A(o-p))	29	
Regenerative b	orake	Without option	75	
frequency (times/m	in)Note)1	DV0PM20049	70PM20049 No limit Note)2	
Rated rotations	al spee	d (r/min)	2000	
Max. rotational	speed	(r/min)	3000	
Moment of iner	tia	Without brake	35.8	
of rotor (×10 ⁻⁴ k	(g·m²)	With brake	45.2	
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.

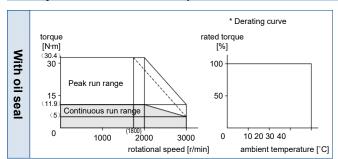
Static friction torque (N·m)	21.6 or more
Engaging time (ms)	150 or less
Releasing time (ms) Note)4	100 or less
Exciting current (DC) (A)	0.75±10 %
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

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

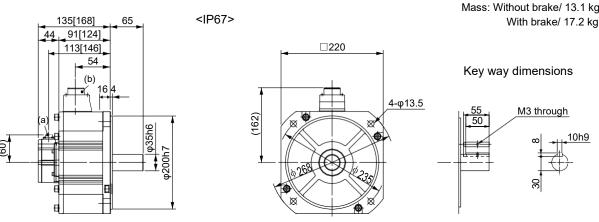
During assembly During operation	Radial load P-direction (N)	1862
	Thrust load A-direction (N)	686
	Thrust load B-direction (N)	686
	Radial load P-direction (N)	784
	Thrust load A, B-direction (N)	294

- 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 \diamondsuit 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

400 V **MFME** 4.5 kW

				AC4	00 V
		IP65		-	-
Motor mod	tel *1	IP67		MFME454G1□	MFME454S1
		odel A5 II , A5 series		MFD ♦ TA464	
Applicable driver	*2 No.	A5 II E, <i>A</i>	5E series	MFD \diamondsuit TA464E	-
unver		Frame syn	nbol	F-fr	ame
Power sup	ply capa	city	(kVA)	6	.9
Rated outp	out		(W)	45	00
Rated torq	ue		(N·m)	21	1.5
Momentar	y Max. pe	ak torque	(N·m)	54.9	
Rated curr	ent		(A(rms))	12.4	
Max. current (A(o-p))		53			
Regenerat	ive brake	Withou	t option	67	
frequency (ti			20049×2	2 375	
Rated rota	tional sp	eed	(r/min)	2000	
Max. rotati	onal spe	ed	(r/min)	3000	
Moment of	f inertia	Withou	t brake	63.1	
of rotor (×	10 ⁻⁴ kg·m²) With	brake	70.9	
Recommended moment of inertia ratio of the load and the rotor Note)3		10 times	s or less		
Rotary encoder specifications Note)5		20-bit Incremental	17-bit Absolute		
	Resolu	tion per sir	gle 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) Note)4	100 or less
Exciting current (DC) (A)	0.75±10 %
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

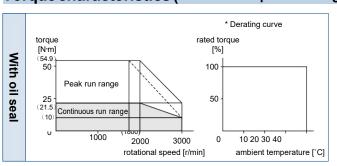
• Permissible load (For details, refer to P.183)

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

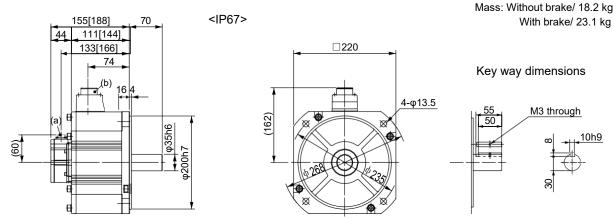
- For details of Note 1 to Note 5, refer to P.182, P.183.
- Dimensions of Driver, refer to P.45.
- *1 Motor specifications:
- *2 The product that the end of driver model designation has "E" is "Position control type". Detail of model designation, refer to P.16.
- *3 \diamondsuit in number of applicable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

Middle inertia, Middle capacity Flat type



Dimensions



- (a) Encoder connector
- (b) Motor/Brake connector
- * Figures in [] represent the dimensions with brake.

[Unit: mm]

			AC4	00 V	
Motor model	IP65		MGME094GC□	MGME094SC□	
Motor model *1		IP67	MGME094G1□	MGME094S1□	
A Ii I. I .	Model	A5 II , A5 series	MDD ◇T3420		
Applicable	No.	A5IIE, A5E series	MDD ⊘T3420E	-	
unver	Fr	ame symbol	D-fr	ame	
Power supply	capacit	y (kVA)	1	.8	
Rated output		(W)	90	00	
Rated torque		(N·m)	8.	8.59	
Momentary M	ax. peal	k torque (N⋅m)	19.3		
Rated current		(A(rms))	3.8		
Max. current		(A(o-p))	1	12	
Regenerative	brake	Without option No limit Note)2		t Note)2	
frequency (times/i	min)Note)1	DV0PM20048	No limit Note)2		
Rated rotation	al spee	d (r/min)	1000		
Max. rotationa	al speed	(r/min)	2000		
Moment of ine	ertia	Without brake	6.70		
of rotor (×10 ⁻⁴	kg·m²)	With brake	7.99		
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		
R	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.

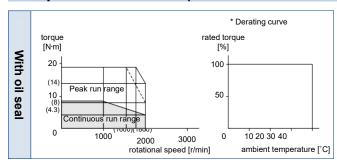
13.7 or more
100 or less
50 or less
0.79±10 %
2 or more
24±2.4

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

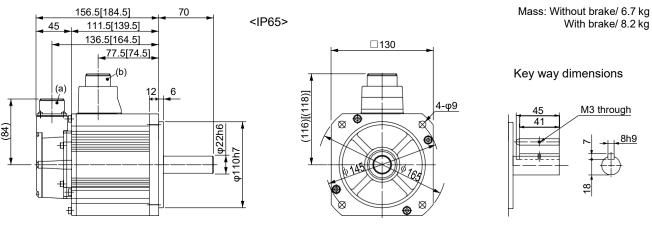
	,	,
During assembly	Radial load P-direction (N)	980
	Thrust load A-direction (N)	588
	Thrust load B-direction (N)	686
During operation	Radial load P-direction (N)	686
	Thrust load A, B-direction (N)	196

- 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 \iff 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.

125

[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

			AC4	00 V	
N4-4		IP65		MGME204GC□	MGME204SC□
Motor mode	1	IP67		MGME204G1□	MGME204S1
	Model	A5 II , A5 series		MFD ◇T5440	
Applicable driver *	No.	A5 II E, A	5E series	MFD \diamondsuit T5440E	-
unver	Fr	ame sym	bol	F-fra	ame
Power supp	ly capacit	у	(kVA)	3	.8
Rated outpu	ıt		(W)	20	00
Rated torqu	е		(N·m)	19).1
Momentary	Max. peal	k torque	(N·m)	47.7	
Rated current (A(rms))			8.5		
Max. current (A(o-p))			30		
Regenerativ	e brake	Without	option	No limi	t Note)2
frequency (time	es/min)Note)1	DV0PM2	.0049×2	No limit Note)2	
Rated rotati	onal spee	d	(r/min)	1000	
Max. rotatio	nal speed		(r/min)	2000	
Moment of i	nertia	Without	brake	30.3	
of rotor (×10 ⁻⁴ kg·m ²)		With b	rake	35.6	
Recommended moment of inertia ratio of the load and the rotor Note)3		10 times	s or less		
Rotary encoder specifications Note)5 Resolution per single turn		20-bit Incremental	17-bit Absolute		
		n per sin	gle 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.

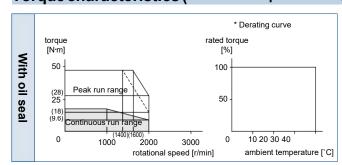
Static friction torque (N·m)	24.5 or more
Engaging time (ms)	80 or less
Releasing time (ms) Note)4	25 or less
Exciting current (DC) (A)	1.3±10 %
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

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

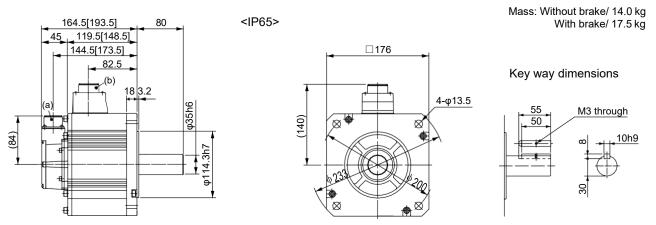
During assembly During operation	Radial load P-direction (N)	1666
	Thrust load A-direction (N)	784
	Thrust load B-direction (N)	980
	Radial load P-direction (N)	1176
	Thrust load A, B-direction (N)	490

- 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 \iff 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.

126

[Unit: mm]

			AC400 V		
Motor model	IP65		MGME304GC□	MGME304SC□	
*1		IP67	MGME304G1□	MGME304S1□	
A II I. I .	Model	A5 II , A5 series	MFD ◇TA46 4		
Applicable driver *2	No.	A5 II E, A5E series	MFD ◇TA464E	-	
dilvei	Fr	rame symbol	F-fr	ame	
Power supply	capacit	y (kVA)	4	.5	
Rated output		(W)	30	3000	
Rated torque		(N·m)	28.7		
Momentary Ma	ax. peal	k torque (N·m)	71.7		
Rated current	Rated current (A(rms))		11.3		
Max. current (A(o-p))		40			
Regenerative brake frequency (times/min)Note)1		Without option	No limit Note)2		
		DV0PM20049×2	No lim	No limit Note)2	
Rated rotation	al spee	d (r/min)	1000		
Max. rotationa	l speed	(r/min)	2000		
Moment of ine		Without brake	48.4		
of rotor (×10 ⁻⁴ l	kg·m²)	With brake 53.7		3.7	
Recommended moment of inertia ratio of the load and the rotor Note)3		10 times or less			
Rotary encoder specifications Note		20-bit Incremental	17-bit Absolute		

1048576

• 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

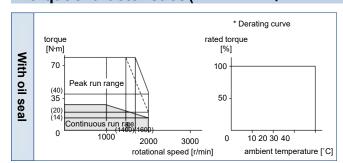
- For details of Note 1 to Note 5, refer to P.182, P.183.
- Dimensions of Driver, refer to P.45.
- *1 Motor specifications:

400 V MGME 3.0 kW [Middle inertia, Middle capacity]

- *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 \iff 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. >)

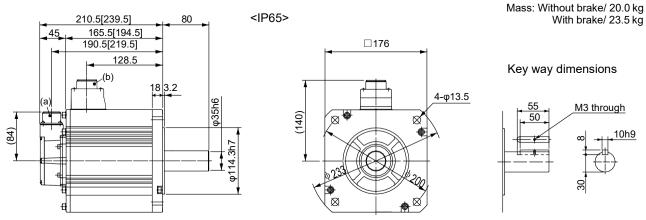
131072



Resolution per single turn

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

[Unit: mm]



(a) Encoder connector

Dimensions

(b) Motor/Brake connector * Figures in [] represent the dimensions with brake.

<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

				AC4	00 V	
Matanasalah		IP65		-	-	
Motor model *1		IP67		MGME454G1□	MGME454S1[
	Model	A5 II , A5 series		MFD ◇TA46 4		
Applicable driver *2	No.	A5 II E, A	5E series	MFD \diamondsuit TA464E	-	
unver -	Fi	rame sym	nbol	F-frame		
Power supply	/ capacit	у	(kVA)	7	.5	
Rated output			(W)	45	00	
Rated torque			(N·m)	43	3.0	
Momentary M	lax. pea	k torque	(N·m)	107		
Rated current (A(rms))		14.8				
Max. current (A(o-p))		5	5			
Regenerative	brake	Without	t option	No limit Note)2		
frequency (times/min)Note		^{e)1} DV0PM20049×2		No limit Note)2		
Rated rotational speed (r/min)		(r/min)	1000			
Max. rotation	al speed		(r/min)	2000		
Moment of in	ertia	Withou	t brake	79.1		
of rotor (×10 ⁻⁴ kg·m ²)		With I	brake	84.4		
Recommended moment of inertia ratio of the load and the rotor Note)3		10 times	s or less			
Rotary encoder specifications Note)5		20-bit Incremental	17-bit Absolute			
F	Resolutio	on per sin	gle 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.

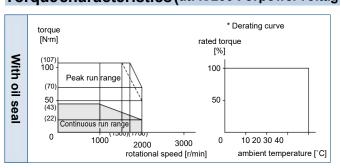
•	,
Static friction torque (N·m)	58.8 or more
Engaging time (ms)	150 or less
Releasing time (ms) Note)4	50 or less
Exciting current (DC) (A)	1.4±10 %
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

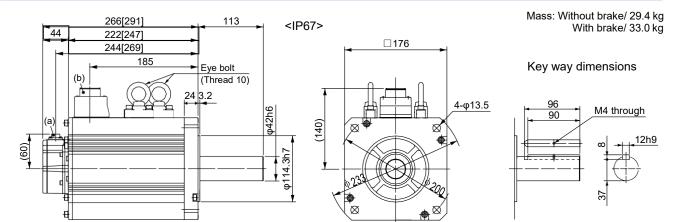
• Permissible load (For details, refer to P.183)

D	Radial load P-direction (N)	2058
During assembly	Thrust load A-direction (N)	980
During	Thrust load B-direction (N)	1176
	Radial load P-direction (N)	1470
operation	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 \iff 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. >)





(a) Encoder connector

Dimensions

- (b) Motor/Brake connector
- * Figures in [] represent the dimensions with brake.

<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.

127

128

			AC400 V		
Motor model	IP65		-	-	
*1		IP67	MGME604G1□	MGME604S1□	
Annliaghla	Model	A5 II , A5 series	MGD ⊘TB4A2		
Applicable driver *2	No.	A5 II E, A5E series	-	_	
dilvoi	Fı	rame symbol	G-frame		
Power supply	capacit	y (kVA)	9	.0	
Rated output		(W)	60	00	
Rated torque		(N·m)	57	57.3	
Momentary M	ax. pea	k torque (N·m)	143		
Rated current		(A(rms))	19.4		
Max. current		(A(o-p))	74		
Regenerative brake frequency (times/min)Note)1		Without option	No limit Note)2		
		DV0PM20049×3	No limit Note)2		
Rated rotation	al spee	d (r/min)	1000		
Max. rotationa	al speed	(r/min)	2000		
Moment of ine	ertia	Without brake	101		
of rotor (×10 ⁻⁴	of rotor (×10 ⁻⁴ kg·m²) With brake		107		
Recommended moment of inertia ratio of the load and the rotor Note)3			10 times or less		
Rotary encode	Rotary encoder specifications Note)5		20-bit Incremental	17-bit Absolute	
R	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.

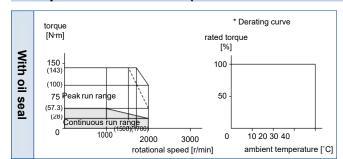
Static friction torque (N·m)	58.8 or more
Engaging time (ms)	150 or less
Releasing time (ms) Note)4	50 or less
Exciting current (DC) (A)	1.4±10 %
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

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

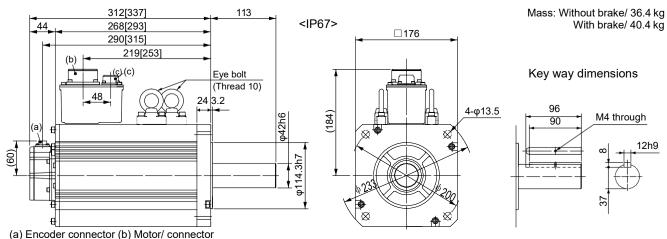
	,
Radial load P-direction (N)	2058
Thrust load A-direction (N)	980
Thrust load B-direction (N)	1176
Radial load P-direction (N)	1764
Thrust load A, B-direction (N)	588
	Thrust load A-direction (N) Thrust load B-direction (N) Radial load P-direction (N)

- 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



- (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.

400 V MHME 1.0 kW [High inertia, Middle capacity]

Specifications

			AC4	00 V	
Motor model	IP65		MHME104GC□	MHME104SC□	
*1		IP67	MHME104G1□	MHME104S1□	
Amaliaabla	Model	Model A5II, A5 series		MDD◇	T2412
Applicable *2	No.	A5IIE, A5E series	MDD ⊘T2412E	-	
anver	Fr	ame symbol	D-frame		
Power supply	capacit	y (kVA)	1.	.8	
Rated output		(W)	10	00	
Rated torque		(N·m)	4.	77	
Momentary M	ax. peal	k torque (N⋅m)	14.3		
Rated current		(A(rms))	2.9		
Max. current	Max. current (A(o-p))		1	2	
Regenerative brake		Without option	83		
frequency (times/i	min)Note)1 DV0PM20048		No limit Note)2		
Rated rotation	al spee	d (r/min)	2000		
Max. rotationa	l speed	(r/min)	3000		
Moment of ine	ertia	Without brake	24.7		
of rotor (×10 ⁻⁴	of rotor (×10 ⁻⁴ kg·m ²) With brake		26.0		
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		
R	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.

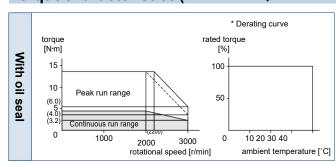
•	,
Static friction torque (N·m)	4.9 or more
Engaging time (ms)	80 or less
Releasing time (ms) Note)4	70 or less
Exciting current (DC) (A)	0.59±10 %
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

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

Desire	Radial load P-direction (N)	980
During assembly	Thrust load A-direction (N)	588
	Thrust load B-direction (N)	686
During	Radial load P-direction (N)	490
operation	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 \diamondsuit 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 > Postestimes represented treatment and the complex of power voltage >)



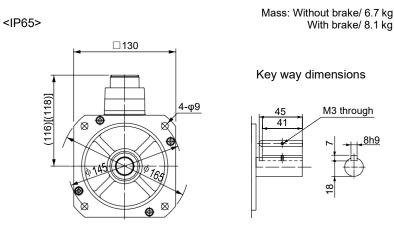
174[202]

129[157]

95[92]

154[182]

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



(a) Encoder connector

Dimensions

- (b) Motor/Brake connector
- * Figures in [] represent the dimensions with brake.

[Unit: mm]

			AC4	00 V	
		IP65	MHME154GC□	MHME154SC□	
Motor model		IP67	MHME154G1□	MHME154S1□	
A Ii l. l .	Model	A5 II , A5 series	MDD≎	T3420	
Applicable driver *2	No.	A5IIE, A5E series	MDD ⇔T3420 E	-	
unver	Fr	ame symbol	D-fra	ame	
Power supply of	capacit	y (kVA)	2	3	
Rated output		(W)	15	00	
Rated torque		(N·m)	7.	7.16	
Momentary Ma	ax. peal	k torque (N⋅m)	21.5		
Rated current		(A(rms))	4.7		
Max. current (A(o-p))		20			
Regenerative brake frequency (times/min)Note)1		Without option	Without option 22		
		DV0PM20048	130		
Rated rotations	al spee	d (r/min)	2000		
Max. rotational	speed	(r/min)	3000		
Moment of ine	rtia	Without brake	37.1		
of rotor (×10 ⁻⁴ l	kg·m²)	With brake	38.4		
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.

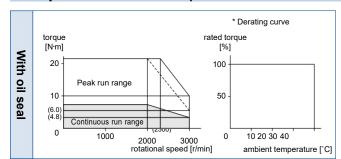
Static friction torque (N·m)	13.7 or more
Engaging time (ms)	100 or less
Releasing time (ms) Note)4	50 or less
Exciting current (DC) (A)	0.79±10 %
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

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

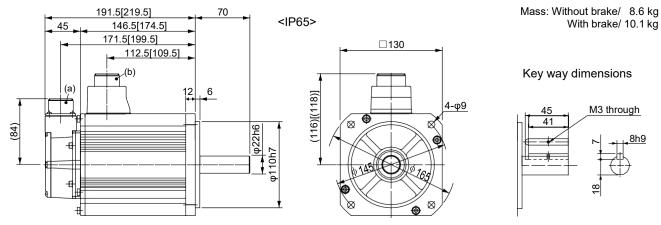
	,	,
Description	Radial load P-direction (N)	980
ouring ssembly	Thrust load A-direction (N)	588
	Thrust load B-direction (N)	686
During	Radial load P-direction (N)	490
peration	Thrust load A, B-direction (N)	196
	Radial load P-direction (N)	490

- 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 \iff 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.)



131

- (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

				AC4	00 V	
Matanaaada		IP65		MHME204GC□	MHME204SC□	
Motor mode	:1	IP67		MHME204G1□	MHME204S1□	
A muslica de la	Model	A5 II , A5 series		MED⇔	T4430	
Applicable *	No.	A5IIE, A5E series		MED⇔T4430E	-	
dilvoi	Fr	ame sym	bol	E-fr	E-frame	
Power supp	ly capacit	y	(kVA)	3	.3	
Rated outpu	ut		(W)	20	00	
Rated torqu	е		(N·m)	9.	55	
Momentary	Max. peal	torque	(N·m)	28.6		
Rated curre	nt	(A(rms))	5.5		
Max. curren	Max. current (A(o-p))		24			
Regenerativ	/e brake	Without option		45		
frequency (time	es/min)Note)1	DV0PM20048		142		
Rated rotati	onal spee	d	(r/min)	2000		
Max. rotatio	nal speed		(r/min)	3000		
Moment of i	nertia	Without	t brake	57.8		
of rotor (×10	of rotor (×10 ⁻⁴ kg·m ²)		orake	59.6		
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.

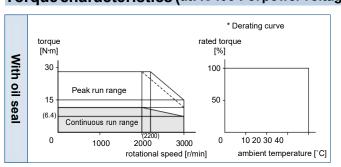
Static friction torque (N·m)	24.5 or more
Engaging time (ms)	80 or less
Releasing time (ms) Note)4	25 or less
Exciting current (DC) (A)	1.3±10 %
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4
Exciting voltage (DC) (V)	24±2.4

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

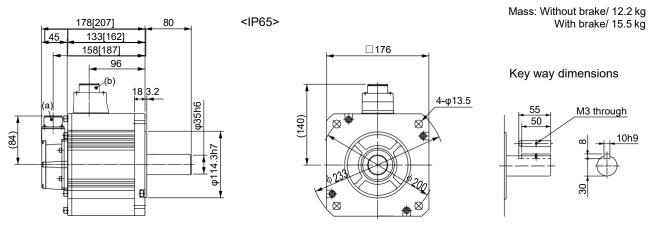
Desire	Radial load P-direction (N)	1666
During assembly	Thrust load A-direction (N)	784
	Thrust load B-direction (N)	980
During	Radial load P-direction (N)	784
operation	Thrust load A, B-direction (N)	343

- 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 \iff 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.)



- (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.

132

			AC4	00 V
		IP65	MHME304GC□	MHME304SC□
Motor model *1		IP67	MHME304G1□	MHME304S1□
	Model	A5 II , A5 series	MFD◇	T5440
Applicable driver *2	No.	A5 II E, A5E series	MFD ◇T5440 E	-
unver	Fı	ame symbol	F-fr	ame
Power supply	capacit	y (kVA)	4	.5
Rated output		(W)	30	00
Rated torque		(N·m)	14	.3
Momentary Ma	ax. pea	k torque (N⋅m)	43.0	
Rated current		(A(rms))	8.0	
Max. current		(A(o-p))	34	
Regenerative brake Without		Without option	19	
frequency (times/r	nin)Note)1	DV0PM20049×2	142	
Rated rotation	al spee	d (r/min)	2000	
Max. rotationa	l speed	(r/min)	3000	
Moment of ine	rtia	Without brake	90.5	
of rotor (×10 ⁻⁴	kg·m²)	With brake	92.1	
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.

24.5 or more
80 or less
25 or less
1.3±10 %
2 or more
24±2.4

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

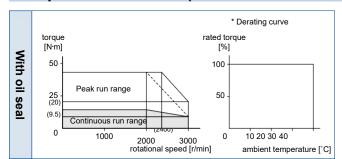
	,	,
During assembly During operation	Radial load P-direction (N)	1666
	Thrust load A-direction (N)	784
	Thrust load B-direction (N)	980
	Radial load P-direction (N)	784
	Thrust load A, B-direction (N)	343

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

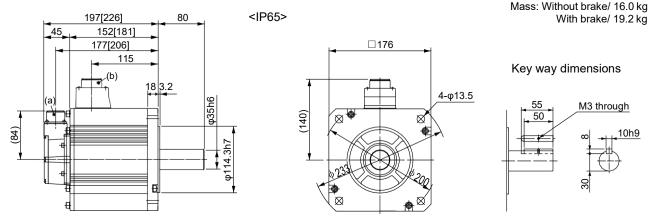
400 V MHME 3.0 kW [High inertia, Middle capacity]

- *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 \iff 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.)



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

[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.

* Figures in [] represent the dimensions with brake.

Specifications

			AC4	00 V		
Motor model	IP65		MHME404GC□	MHME404SC□		
*1		IP67		MHME404G1□	MHME404S1□	
	Model	A5 II , A5 series		MFD ⇔TA46 4		
Applicable driver *2	No.	A5 II E, A	5E series	MFD \diamondsuit TA464E	-	
ulivei	Fı	ame sym	bol	F-fr	F-frame	
Power supply	capacit	y	(kVA)	6	.8	
Rated output			(W)	40	00	
Rated torque			(N·m)	19	9.1	
Momentary M	ax. peal	k torque	(N·m)	57.3		
Rated current		(A(rms))	10.5		
Max. current (A(o-p))		4	5			
Regenerative brake frequency (times/min)Note)1 DV0PM20049×2		option	17			
		DV0PM20049×2		125		
Rated rotation	al spee	d	(r/min)	2000		
Max. rotationa	l speed		(r/min)	3000		
Moment of ine	rtia	Without	brake	112		
of rotor (×10 ⁻⁴ kg·m ²) With brake		orake	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			
R	esolutio	n per sin	gle 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.

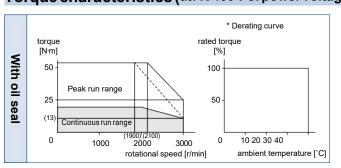
•	,
Static friction torque (N·m)	24.5 or more
Engaging time (ms)	80 or less
Releasing time (ms) Note)4	25 or less
Exciting current (DC) (A)	1.3±10 %
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

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

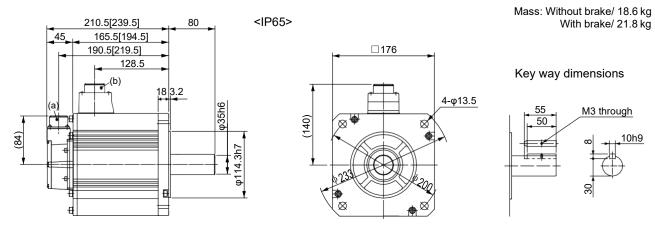
Desire	Radial load P-direction (N)	1666
During assembly	Thrust load A-direction (N)	784
	Thrust load B-direction (N)	980
During	Radial load P-direction (N)	784
operation	Thrust load A, B-direction (N)	343

- 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 \iff 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.)



- (a) Encoder connector
- (b) Motor/Brake connector
- * Figures in [] represent the dimensions with brake.

[Unit: mm]

			AC400 V		
Motor model	IP65		MHME504GC□	MHME504SC□	
*1	IP67		MHME504G1□	MHME504S1□	
	Model	A5 II , A5 series	MFD◇	TA464	
Applicable driver *2	No.	A5 II E, A5E series	MFD ◇TA464E	-	
unver	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 Without op		Without option	10		
frequency (times/r	nin)Note)1	DV0PM20049×2	76		
Rated rotational speed (r/min)		2000			
Max. rotational speed (r/min)		3000			
Moment of inertia Without b		Without brake	162		
of rotor (×10 ⁻⁴	kg·m²)	With brake	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		
R	esolutic	on 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.

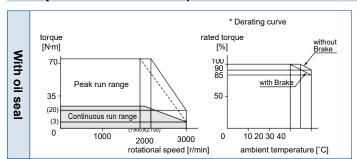
Static friction torque (N·m)	24.5 or more
Engaging time (ms)	80 or less
Releasing time (ms) Note)4	25 or less
Exciting current (DC) (A)	1.3±10 %
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

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

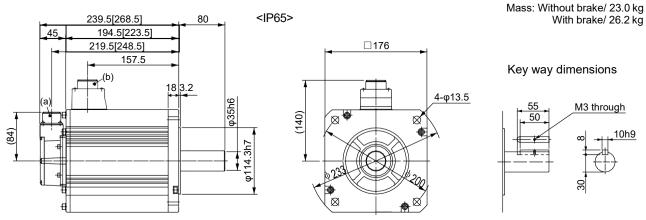
	,	,
During assembly	Radial load P-direction (N)	1666
	Thrust load A-direction (N)	784
	Thrust load B-direction (N)	980
During operation	Radial load P-direction (N)	784
	Thrust load A, B-direction (N)	343

- 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 \iff 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. >)



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



(a) Encoder connector

Dimensions

(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.

400 V MHME 7.5 kW [High inertia, Middle capacity]

Specifications

			AC400 V		
Mataninaadal	IP65		-	-	
Motor model *1	IP67		MHME754G1□	MHME754S1	
	Model	A5 II , A5 series		MGD ⊘TB4A2	
Applicable *2	No.	A5 II E, A5E seri	es	-	-
unven	Frame symbol			G-frame	
Power supply	capacit	y (kV <i>A</i>	١)	9	.0
Rated output (W)			/)	7500	
Rated torque (N·m)			1)	47.8	
Momentary Max. peak torque (N·m)			1)	119	
Rated current (A(rms))))	22.0	
Max. current (A(o-p))))	83	
Regenerative brake frequency (times/min)Note)1 DV0PM20049x3		1	No limit Note)2		
		DV0PM20049×	3	No limit Note)2	
Rated rotation	al spee	d (r/mir	1)	15	00
Max. rotationa	l speed	(r/mir	1)	30	00
Moment of inertia of rotor (×10 ⁻⁴ kg·m²)		Without brake	:	273	
		With brake		279	
Recommended moment of inertia ratio of the load and the rotor Note)3		3	5 times or less		
Rotary encoder specifications Note)5		5	20-bit Incremental	17-bit Absolute	
R	esolutio	on per single tur	n	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.

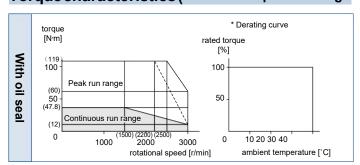
Static friction torque (N·m)	58.8 or more
Engaging time (ms)	150 or less
Releasing time (ms) Note)4	50 or less
Exciting current (DC) (A)	1.4±10 %
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

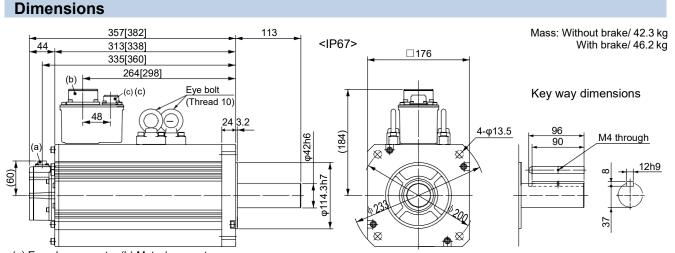
• Permissible load (For details, refer to P.183)

D	Radial load P-direction (N)	2058
During assembly	Thrust load A-direction (N)	980
During	Thrust load B-direction (N)	1176
	Radial load P-direction (N)	1176
operation	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 \iff 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. >)





- (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.

Read the Instruction Manual carefully and understand all precautions and remarks before using the products.