Series

				AC100 V
Motor model *	1	MSMF5AZL1		
		Multi	function type	MADLT01SF
Applicable	Model No	RS48	5 communication type *2	MADLN01SG
driver		Basi	c type *2	MADLN01SE
	Fram	e sym	bol	A-frame
Power supply	capacit	y	(kVA)	0.4
Rated output			(W)	50
Rated torque			(N·m)	0.16
Continuous st	all torqu	ıe	(N·m)	0.16
Momentary M	ax. pea	k torq	ue (N·m)	0.48
Rated current			(A(rms))	1.1
Max. current			(A(o-p))	4.7
Regenerative	brake		Without option	No limit Note)2
frequency (tim	es/min) N	ote)1	DV0P4280	No limit Note)2
Rated rotation	nal spee	d	(r/min)	3000
Max. rotationa	al speed		(r/min)	6000
Moment of ine	ertia		Without brake	0.026
of rotor (×10 ⁻⁴	kg·m²)		With brake	0.029
Recommended moment of inertia ratio of the load and the rotor Note)3				30 times or less
Rotary encod	er speci	ficatio	ns *3	23-bit Absolute
	Re	solutio	on per single turn	8388608

• Brake specifications (For details, refer to P.305) /This brake will be released when it is energized. Do not use this for braking the motor in motion.

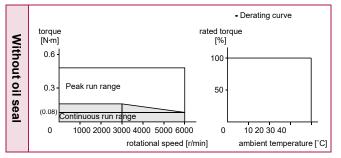
Static friction torque (N·m)	0.294 or more
Engaging time (ms)	35 or less
Releasing time (ms) Note)4	20 or less
Exciting current (DC) (A)	0.30
Releasing voltage (DC) (V)	1 or more
Exciting voltage (DC) (V)	24±1.2

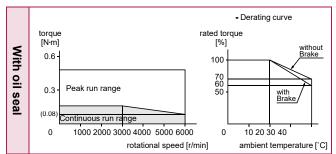
• Permissible load (For details, refer to P.304)

	Radial load P-direction (N)	147
During assembly	Thrust load A-direction (N)	88.0
asserribly	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)4, refer to P.303.
- Dimensions of Driver, refer to P.57.
- *1 $\Box\Box$ in the motor part number represents the motor specifications.
- *2 Basic type and RS485 communication type are "Position control type".
- Detail of model designation, refer to P.22.
- *3 When using a rotary encoder as an incremental system (not using multi-turn data), do not connect a battery for absolute encoder.

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





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Dimensions

	Round shaft/ Key way, center tap shaft						
Motor specifications	without brake			with brake			
·	without oil seal	with oil seal	with protective lip/ with oil seal	without oil seal	with oil seal	with protective lip/ with oil seal	
Leadwire type (IP65)	P.119		_	P.1	119	_	
Connector type (IP67)	P.119		_	P.120		_	

<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 MSMF 50 W [Low inertia 38 mm sq.]

				AC200 V
Motor model	*1	MSMF5AZL1		
		Multi	function type	MADLT05SF
Applicable	Model No	RS48	5 communication type *2	MADLN05SG
driver	110.	Basi	c type *2	MADLN05SE
	Fram	e sym	bol	A-frame
Power supply	/ capacit	у	(kVA)	0.5
Rated output			(W)	50
Rated torque			(N·m)	0.16
Continuous s	tall torqu	ie	(N·m)	0.16
Momentary N	lax. peal	k torqı	ue (N⋅m)	0.48
Rated curren	t		(A(rms))	1.1
Max. current			(A(o-p))	4.7
Regenerative	brake		Without option	No limit Note)2
frequency (tin	nes/min) N	ote)1	DV0P4281	No limit Note)2
Rated rotatio	nal spee	d	(r/min)	3000
Max. rotation	al speed		(r/min)	6000
Moment of in	ertia		Without brake	0.026
of rotor (×10 ⁻⁴ kg·m ²)			With brake	0.029
Recommended moment of inertia ratio of the load and the rotor				30 times or less
Rotary encod	ler speci	ficatio	ns *3	23-bit Absolute
	Re	solutio	on per single turn	8388608

 Brake specifications (For details, refer to P.305) This brake will be released when it is energized. Do not use this for braking the motor in motion.

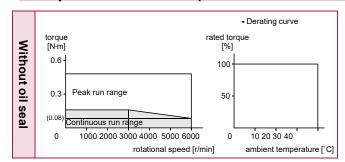
Static friction torque (N·m)	0.294 or more
Engaging time (ms)	35 or less
Releasing time (ms) Note)4	20 or less
Exciting current (DC) (A)	0.30
Releasing voltage (DC) (V)	1 or more
Exciting voltage (DC) (V)	24±1.2

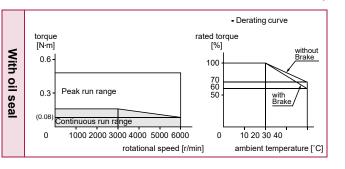
• Permissible load (For details, refer to P.304)

During assembly	Radial load P-direction (N)	147
	Thrust load A-direction (N)	88.0
	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)4, refer to P.303.
- Dimensions of Driver, refer to P.57.
- *1 $\Box\Box$ in the motor part number represents the motor specifications.
- *2 Basic type and RS485 communication type are "Position control type".
- Detail of model designation, refer to P.22.
- *3 When using a rotary encoder as an incremental system (not using multi-turn data), do not connect a battery for absolute encoder.

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





Dimensions

	Motor specifications	Round shaft/ Key way, center tap shaft						
		without brake			with brake			
	·	without oil seal	with oil seal	with protective lip/ with oil seal	without oil seal	with oil seal	with protective lip/ with oil seal	
	Leadwire type (IP65)	P.119		_	P.1	119	_	
	Connector type (IP67)	P.119		_	P.1	120	_	

				AC100 V
Motor model	' 1	MSMF011L1		
		Multifu	ınction type	MADLT11SF
Applicable	Model No.	RS485	communication type *2	MADLN11SG
driver	1.10.	Basic	type *2	MADLN11SE
	Frame	symb	ol	A-frame
Power supply	capacity	,	(kVA)	0.4
Rated output			(W)	100
Rated torque			(N·m)	0.32
Continuous s	tall torqu	е	(N·m)	0.32
Momentary M	lax. peak	torque	e (N·m)	0.95
Rated current	t		(A(rms))	1.6
Max. current			(A(o-p))	6.9
Regenerative	brake		Without option	No limit Note)2
frequency (tim	es/min) No	te)1	DV0P4280	No limit Note)2
Rated rotation	nal speed	t	(r/min)	3000
Max. rotation	al speed		(r/min)	6000
Moment of inc	ertia		Without brake	0.048
of rotor (×10 ⁻²	¹kg·m²)		With brake	0.051
Recommended moment of inertia ratio of the load and the rotor				30 times or less
Rotary encod	er specif	ication	s *3	23-bit Absolute
	Res	8388608		

• Brake specifications (For details, refer to P.305) /This brake will be released when it is energized. Do not use this for braking the motor in motion.

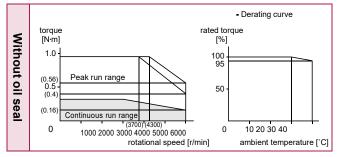
Static friction torque (N·m)	0.294 or more
Engaging time (ms)	35 or less
Releasing time (ms) Note)4	20 or less
Exciting current (DC) (A)	0.30
Releasing voltage (DC) (V)	1 or more
Exciting voltage (DC) (V)	24±1.2

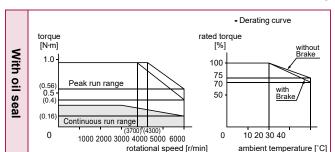
• Permissible load (For details, refer to P.304)

During assembly	Radial load P-direction (N)	147
	Thrust load A-direction (N)	88.0
	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)4, refer to P.303.
- Dimensions of Driver, refer to P.57.
- *1 $\Box\Box$ in the motor part number represents the motor specifications.
- *2 Basic type and RS485 communication type are "Position control type".
- Detail of model designation, refer to P.22.
- *3 When using a rotary encoder as an incremental system (not using multi-turn data), do not connect a battery for absolute encoder.

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





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Dimensions

	Round shaft/ Key way, center tap shaft							
Motor specifications	without brake			with brake				
	without oil seal	with oil seal	with protective lip/ with oil seal	without oil seal	with oil seal	with protective lip/ with oil seal		
Leadwire type (IP65)	P.120		_	P.120		_		
Connector type (IP67)	P.121		_	P.121		_		

<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 MSMF 100 W [Low inertia 38 mm sq.]

				AC200 V
Motor model	*1	MSMF012L1		
		Multi	function type	MADLT05SF
Applicable	Model No	RS48	5 communication type *2	MADLN05SG
driver	110.	Basi	c type *2	MADLN05SE
	Fram	e sym	bol	A-frame
Power supply	/ capacit	у	(kVA)	0.5
Rated output			(W)	100
Rated torque			(N·m)	0.32
Continuous s	tall torqu	ie	(N·m)	0.32
Momentary N	lax. peal	k torqı	ue (N⋅m)	0.95
Rated curren	t		(A(rms))	1.1
Max. current			(A(o-p))	4.7
Regenerative	brake		Without option	No limit Note)2
requency (tin	nes/min) N	ote)1	DV0P4281	No limit Note)2
Rated rotatio	nal spee	d	(r/min)	3000
Max. rotation	al speed		(r/min)	6000
Moment of in	ertia		Without brake	0.048
of rotor (×10 ⁻⁴ kg·m ²)			With brake	0.051
Recommendatio of the lo		30 times or less		
Rotary encod	ler speci	ficatio	ns *3	23-bit Absolute
	Re	solutio	on per single turn	8388608

 Brake specifications (For details, refer to P.305) (This brake will be released when it is energized.) Do not use this for braking the motor in motion.

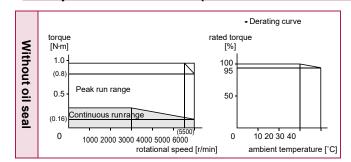
Static friction torque (N·m)	0.294 or more
Engaging time (ms)	35 or less
Releasing time (ms) Note)4	20 or less
Exciting current (DC) (A)	0.30
Releasing voltage (DC) (V)	1 or more
Exciting voltage (DC) (V)	24±1.2

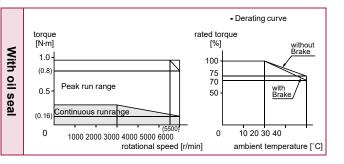
• Permissible load (For details, refer to P.304)

During assembly During operation	Radial load P-direction (N)	147
	Thrust load A-direction (N)	88.0
	Thrust load B-direction (N)	117.6
	Radial load P-direction (N)	68.6
	Thrust load A, B-direction (N)	58.8

- For details of Note)1 to Note)4, refer to P.303.
- Dimensions of Driver, refer to P.57.
- *1 $\Box\Box$ in the motor part number represents the motor specifications.
- *2 Basic type and RS485 communication type are "Position control type".
- Detail of model designation, refer to P.22.
- *3 When using a rotary encoder as an incremental system (not using multi-turn data), do not connect a battery for absolute encoder.

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





Dimensions

	Round shaft/ Key way, center tap shaft							
Motor specifications	without brake			with brake				
·	without oil seal	with oil seal	with protective lip/ with oil seal	without oil seal	with oil seal	with protective lip/ with oil seal		
Leadwire type (IP65)	P.120		_	P.120		_		
Connector type (IP67)	P.121		_	P.121		_		

				AC100 V
Motor model	°1	MSMF021L1		
		Multi	function type	MBDLT21SF
Applicable	Model No	RS48	5 communication type *	MBDLN21SG
driver	110.	Basi	c type *2	MBDLN21SE
	Fram	e sym	bol	B-frame
Power supply	capacit	y	(kVA)	0.5
Rated output			(W)	200
Rated torque			(N·m)	0.64
Continuous s	tall torqu	ıe	(N·m)	0.64
Momentary M	lax. pea	k torqı	ue (N·m)	1.91
Rated current	İ		(A(rms))	2.5
Max. current			(A(o-p))	10.6
Regenerative	brake		Without option	No limit Note)2
frequency (tim	es/min) N	ote)1	DV0P4283	No limit Note)2
Rated rotation	nal spee	d	(r/min)	3000
Max. rotationa	al speed		(r/min)	6000
Moment of inc	ertia		Without brake	0.14
of rotor (×10 ⁻⁴	¹kg·m²)		With brake	0.17
Recommended moment of inertia ratio of the load and the rotor Note)3				30 times or less
Rotary encod	er speci	ficatio	ns *3	23-bit Absolute
	Re	solutio	on per single turn	8388608

• Brake specifications (For details, refer to P.305) /This brake will be released when it is energized. Do not use this for braking the motor in motion.

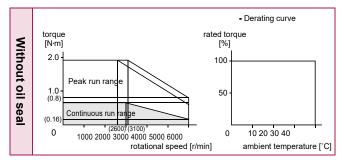
Static friction torque (N·m)	1.27 or more
Engaging time (ms)	50 or less
Releasing time (ms) Note)4	15 or less
Exciting current (DC) (A)	0.36
Releasing voltage (DC) (V)	1 or more
Exciting voltage (DC) (V)	24±1.2

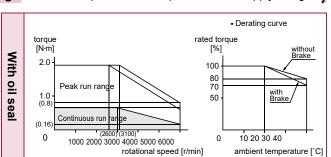
• Permissible load (For details, refer to P.304)

Radial load P-direction (N)	392
Thrust load A-direction (N)	147
Thrust load B-direction (N)	196
Radial load P-direction (N)	245
Thrust load A, B-direction (N)	98.0
	Thrust load A-direction (N) Thrust load B-direction (N)

- For details of Note)1 to Note)4, refer to P.303.
- Dimensions of Driver, refer to P.57.
- *1 $\Box\Box$ in the motor part number represents the motor specifications.
- *2 Basic type and RS485 communication type are "Position control type".
- Detail of model designation, refer to P.22.
- *3 When using a rotary encoder as an incremental system (not using multi-turn data), do not connect a battery for absolute encoder.

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





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Dimensions

	Round shaft/ Key way, center tap shaft							
Motor specifications	without brake			with brake				
	without oil seal	with oil seal	with protective lip/ with oil seal	without oil seal	with oil seal	with protective lip/ with oil seal		
Leadwire type (IP65)	P.121		_	P.122		_		
Connector type (IP67)	P.122		_	P.122		_		

<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 MSMF 200 W [Low inertia 60 mm sq.]

				AC200 V
Motor model	*1	MSMF022L1□□		
		Multi	function type	MADLT15SF
Applicable	Model No	RS48	5 communication type *2	MADLN15SG
driver	110.	Basi	c type *2	MADLN15SE
	Fram	e sym	bol	A-frame
Power supply	/ capacit	y	(kVA)	0.5
Rated output			(W)	200
Rated torque			(N·m)	0.64
Continuous s	tall torqu	ie	(N·m)	0.64
Momentary M	lax. peal	k torqı	ue (N⋅m)	1.91
Rated curren	t		(A(rms))	1.5
Max. current			(A(o-p))	6.5
Regenerative	brake		Without option	No limit Note)2
frequency (tim	nes/min) N	ote)1	DV0P4283	No limit Note)2
Rated rotatio	nal spee	d	(r/min)	3000
Max. rotation	al speed		(r/min)	6000
Moment of in	ertia		Without brake	0.14
of rotor (×10	⁴kg·m²)		With brake	0.17
Recommendoratio of the lo		30 times or less		
Rotary encod	ler speci	ficatio	ns *3	23-bit Absolute
	Re	solutio	on per single turn	8388608

 Brake specifications (For details, refer to P.305) 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.304)

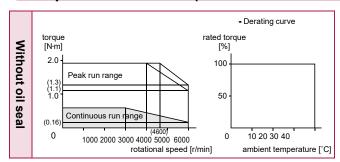
During assembly During operation	Radial load P-direction (N)	392
	Thrust load A-direction (N)	147
	Thrust load B-direction (N)	196
	Radial load P-direction (N)	245
	Thrust load A, B-direction (N)	98.0

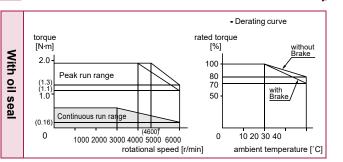
A6N Series

Series

- For details of Note)1 to Note)4, refer to P.303.
- Dimensions of Driver, refer to P.57.
- *1 $\Box\Box$ in the motor part number represents the motor specifications.
- *2 Basic type and RS485 communication type are "Position control type".
- Detail of model designation, refer to P.22.
- *3 When using a rotary encoder as an incremental system (not using multi-turn data), do not connect a battery for absolute encoder.

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





Dimensions

		Round shaft/ Key way, center tap shaft							
Motor specificat	Motor specifications		without brake			with brake			
·		without oil seal	with oil seal	with protective lip/ with oil seal	without oil seal	with oil seal	with protective lip/ with oil seal		
Leadwire type (I	IP65)	P.1	21	_	P.1	122	_		
Connector type ((IP67)	P.1	22	_	P.1	122	_		

				AC100 V
Motor model *	°1			MSMF041L1
			function type	MCDLT31SF
Applicable	Model No	RS48	5 communication type	MCDLN31SG
driver		Basi	c type *2	MCDLN31SE
	Fram	e sym	bol	C-frame
Power supply	capacit	у	(kVA)	0.9
Rated output			(W)	400
Rated torque			(N·m)	1.27
Continuous st	inuous stall torque (N·m)		1.27	
Momentary M	Momentary Max. peak torque (N⋅m)		3.82	
Rated current	ted current		(A(rms))	4.6
Max. current			(A(o-p))	19.5
Regenerative brake		Without option	No limit Note)2	
frequency (times/min) Note)1		DV0P4282	No limit Note)2	
Rated rotation	nal spee	d	(r/min)	3000
Max. rotationa	al speed		(r/min)	6000
Moment of ine			Without brake	0.27
of rotor (×10 ⁻⁴	¹kg·m²)		With brake	0.30
Recommender ratio of the load				30 times or less
Rotary encod	er speci	ficatio	ns *3	23-bit Absolute
	Re	solutio	on per single turn	8388608

• Brake specifications (For details, refer to P.305) /This brake will be released when it is energized. Do not use this for braking the motor in motion.

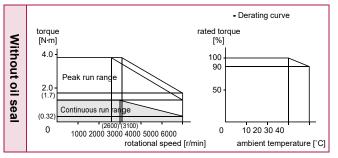
Static friction torque (N·m)	1.27 or more
Engaging time (ms)	50 or less
Releasing time (ms) Note)4	15 or less
Exciting current (DC) (A)	0.36
Releasing voltage (DC) (V)	1 or more
Exciting voltage (DC) (V)	24±1.2

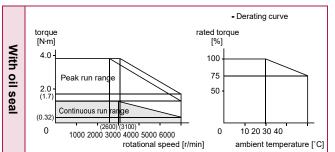
• Permissible load (For details, refer to P.304)

	Radial load P-direction (N)	392
During assembly	Thrust load A-direction (N)	147
accombiy	Thrust load B-direction (N)	196
During	Radial load P-direction (N)	245
operation	Thrust load A, B-direction (N)	98.0

- For details of Note)1 to Note)4, refer to P.303.
- Dimensions of Driver, refer to P.58.
- *1 $\Box\Box$ in the motor part number represents the motor specifications.
- *2 Basic type and RS485 communication type are "Position control type".
- Detail of model designation, refer to P.22.
- *3 When using a rotary encoder as an incremental system (not using multi-turn data), do not connect a battery for absolute encoder.

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





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Dimensions

	Round shaft/ Key way, center tap shaft							
Motor specifications		without brake		with brake				
·	without oil seal	with oil seal	with protective lip/ with oil seal	without oil seal	with oil seal	with protective lip/ with oil seal		
Leadwire type (IP65)	P.1	123	_	P.′	123	_		
Connector type (IP67)	P.1	123	_	P.′	124	_		

<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 MSMF 400 W [Low inertia 60 mm sq.]

				AC200 V	
Motor model	*1			MSMF042L1	
		Multi	function type	MBDLT25SF	
Applicable	Model No.	RS48	5 communication type *2	MBDLN25SG	
driver	110.	Basi	c type *2	MBDLN25SE	
	Fram	e sym	bol	B-frame	
Power supply	/ capacit	y	(kVA)	0.9	
Rated output			(W)	400	
Rated torque	1		(N·m)	1.27	
Continuous s	stall torque (N·m)		tinuous stall torque (N·m)		1.27
Momentary N	ntary Max. peak torque (N·m)		3.82		
Rated curren	t		(A(rms))	2.4	
Max. current			(A(o-p))	10.2	
Regenerative brake		Without option	No limit Note)2		
frequency (times/min) Note)1 DV0P42		DV0P4283	No limit Note)2		
Rated rotatio	Rated rotational speed		(r/min)	3000	
Max. rotation	al speed		(r/min)	6000	
Moment of in	ertia		Without brake	0.27	
of rotor (×10	⁴kg·m²)		With brake	0.30	
Recommend ratio of the lo				30 times or less	
Rotary encod	der speci	ficatio	ns *3	23-bit Absolute	
	Re	solutio	on per single turn	8388608	

• Brake specifications (For details, refer to P.305) This brake will be released when it is energized. Do not use this for braking the motor in motion.

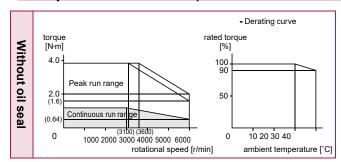
Static friction torque (N·m)	1.27 or more
Engaging time (ms)	50 or less
Releasing time (ms) Note)4	15 or less
Exciting current (DC) (A)	0.36
Releasing voltage (DC) (V)	1 or more
Exciting voltage (DC) (V)	24±1.2

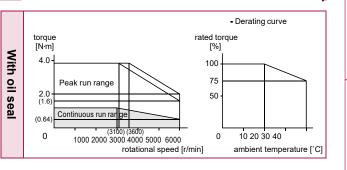
• Permissible load (For details, refer to P.304)

	Radial load P-direction (N)	392
During assembly	Thrust load A-direction (N)	147
documbry	Thrust load B-direction (N)	196
During	Radial load P-direction (N)	245
operation	Thrust load A, B-direction (N)	98.0

- For details of Note)1 to Note)4, refer to P.303.
- Dimensions of Driver, refer to P.57.
- *1 $\Box\Box$ in the motor part number represents the motor specifications.
- *2 Basic type and RS485 communication type are "Position control type".
- Detail of model designation, refer to P.22.
- *3 When using a rotary encoder as an incremental system (not using multi-turn data), do not connect a battery for absolute encoder.

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





Dimensions

	Round shaft/ Key way, center tap shaft							
Motor specifications	without brake			with brake				
·	without oil seal	with oil seal	with protective lip/ with oil seal	without oil seal	with oil seal	with protective lip/ with oil seal		
Leadwire type (IP65)	P.1	23	_	P.′	123	_		
Connector type (IP67)	P.1	23	_	P.′	124	_		

<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. Series

A6N Series

Series

Specifications

				AC200 V
Motor model	*1			MSMF082L1□□
		MCDLT35SF		
Applicable	Model No.	RS485 communication type *2		MCDLN35SG
driver		Basic	c type *2	MCDLN35SE
	Fram	e sym	bol	C-frame
Power supply	capacit	у	(kVA)	1.8
Rated output			(W)	750
Rated torque	Rated torque (N·m)			2.39
Continuous s	Continuous stall torque (N·m)			2.39
Momentary M	Momentary Max. peak torque (N·m)		7.16	
Rated curren	Rated current (A(rn		(A(rms))	4.1
Max. current	Max. current (A(o-p		(A(o-p))	17.4
Regenerative brake		Without option	No limit Note)2	
frequency (tim	requency (times/min) Note)1 DV0P4283		DV0P4283	No limit Note)2
Rated rotation	nal spee	d	(r/min)	3000
Max. rotation	al speed		(r/min)	6000
Moment of in	ertia		Without brake	0.96
of rotor (×10	⁴kg·m²)		With brake	1.06
Recommended moment of inertia ratio of the load and the rotor Note)3			20 times or less	
Rotary encod	er speci	ficatio	ns *3	23-bit Absolute
	Re	solutio	on per single turn	8388608

• Brake specifications (For details, refer to P.305) /This brake will be released when it is energized. Do not use this for braking the motor in motion.

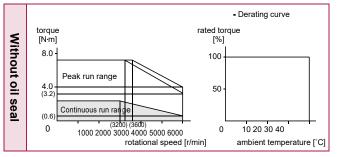
Static friction torque (N·m)	2.45 or more
Engaging time (ms)	70 or less
Releasing time (ms) Note)4	20 or less
Exciting current (DC) (A)	0.42
Releasing voltage (DC) (V)	1 or more
Exciting voltage (DC) (V)	24±1.2

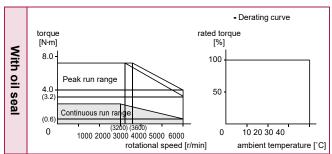
• Permissible load (For details, refer to P.304)

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

- For details of Note)1 to Note)4, refer to P.303.
- Dimensions of Driver, refer to P.58.
- *1 $\Box\Box$ in the motor part number represents the motor specifications.
- *2 Basic type and RS485 communication type are "Position control type".
- Detail of model designation, refer to P.22.
- *3 When using a rotary encoder as an incremental system (not using multi-turn data), do not connect a battery for absolute encoder.

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





Dimensions

	Round shaft/ Key way, center tap shaft							
Motor specifications	without brake			with brake				
·	without oil seal	with oil seal	with protective lip/ with oil seal	without oil seal	with oil seal	with protective lip/ with oil seal		
Leadwire type (IP65)	P.124		_	P.′	124	_		
Connector type (IP67)	P.125		_	P.125		_		

<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 MSMF 1000 W [Low inertia 80 mm sq.]

Specifications

				AC200 V
Motor model *	1			MSMF092L1□□
		Multi	function type	MDDLT45SF
Applicable	Model No.	RS48	5 communication type *2	MDDLN45SG
driver		Basic	c type *2	MDDLN45SE
	Fram	e sym	bol	D-frame
Power supply	capacit	y	(kVA)	2.4
Rated output			(W)	1000
Rated torque			(N·m)	3.18
Continuous st	all torqu	ie	(N·m)	3.18
Momentary M	ax. pea	k torqı	ue (N·m)	9.55
Rated current			(A(rms))	5.7
Max. current			(A(o-p))	24.2
Regenerative	brake		Without option	No limit Note)2
frequency (time	es/min) N	ote)1	DV0P4284	No limit Note)2
Rated rotation	al spee	d	(r/min)	3000
Max. rotationa	l speed		(r/min)	6000
Moment of ine	ertia		Without brake	1.26
of rotor (×10 ⁻⁴ kg·m²) Witl		With brake	1.36	
Recommended moment of inertia ratio of the load and the rotor Note)3			15 times or less	
Rotary encode	er speci	ficatio	ns *3	23-bit Absolute
	Re	solutic	on per single turn	8388608

• Brake specifications (For details, refer to P.305) (This brake will be released when it is energized.) Do not use this for braking the motor in motion.

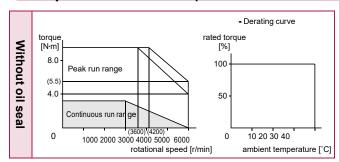
Static friction torque (N·m)	3.80 or more
Engaging time (ms)	70 or less
Releasing time (ms) Note)4	20 or less
Exciting current (DC) (A)	0.42
Releasing voltage (DC) (V)	1 or more
Exciting voltage (DC) (V)	24±2.4

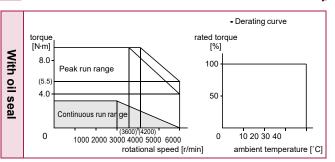
• Permissible load (For details, refer to P.304)

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)4, refer to P.303.
- Dimensions of Driver, refer to P.58.
- *1 $\Box\Box$ in the motor part number represents the motor specifications.
- *2 Basic type and RS485 communication type are "Position control type".
- Detail of model designation, refer to P.22.
- *3 When using a rotary encoder as an incremental system (not using multi-turn data), do not connect a battery for absolute encoder.

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





Dimensions

	Round shaft/ Key way, center tap shaft						
Motor specifications	without brake			with brake			
·	without oil seal	with oil seal	with protective lip/ with oil seal	without oil seal	with oil seal	with protective lip/ with oil seal	
Leadwire type (IP65)	P.125		_	P.′	126	_	
Connector type (IP67)	P.126		_	P.126		_	

				AC200 V	
Motor model*1			IP67	MSMF102L1□□	
		Multi	function type	MDDLT55SF	
Applicable	Model No.	RS48	5 communication type *2	MDDLN55SG	
driver		Basio	c type *2	MDDLN55SE	
	Fram	e sym	bol	D-frame	
Power supply	capacit	у	(kVA)	2.4	
Rated output			(W)	1000	
Rated torque			(N·m)	3.18	
Continuous sta	all torqu	ie	(N·m)	3.82	
Momentary Ma	ax. pea	k torqı	ue (N⋅m)	9.55	
Rated current			(A(rms))	6.6	
Max. current			(A(o-p))	28	
Regenerative	brake		Without option	No limit Note)2	
frequency (time	s/min) N	ote)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	2.15	
of rotor (×10 ⁻⁴ kg·m ²)			With brake	2.47	
Recommended moment of inertia ratio of the load and the rotor Note)3				15 times or less	
Rotary encode	r speci	ficatio	ns *3	23-bit Absolute	
	Re	solutic	on per single turn	8388608	

• Brake specifications (For details, refer to P.305) /This brake will be released when it is energized. Do not use this for braking the motor in motion.

Static friction torque (N·m)	8.0 or more
Engaging time (ms)	50 or less
Releasing time (ms) Note)4	15 or less
Exciting current (DC) (A)	0.81
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

• Permissible load (For details, refer to P.304)

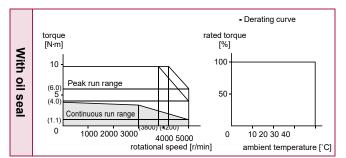
During assembly	Radial load P-direction (N)	980
	Thrust load A-direction (N)	588
	Thrust load B-direction (N)	686
During	Radial load P-direction (N)	490
operation	Thrust load A, B-direction (N)	196

- For details of Note)1 to Note)4, refer to P.303.
- Dimensions of Driver, refer to P.58.
- *1 $\Box\Box$ in the motor part number represents the motor specifications.
- *2 Basic type and RS485 communication type are "Position control type".
- Detail of model designation, refer to P.22. *3 When using a rotary encoder as an incremental

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system (not using multi-turn data), do not connect a battery for absolute encoder.

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



Dimensions

	Key way shaft/ Round shaft						
Motor specifications	without brake			with brake			
·	without oil seal	with oil seal	with protective lip/ with oil seal	without oil seal	with oil seal	with protective lip/ with oil seal	
Encoder connector Large size (JL10) type	_	P.127		_	P.	127	
Encoder connector Small size (JN2) type	_	P.127		_	P.	128	

<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 MSMF 1.5 kW [Low inertia 100 mm sq.]

Specifications

				AC200 V
Motor model*1			IP67	MSMF152L1□□
		Multi	function type	MDDLT55SF
Applicable	Model No.	RS48	5 communication type *2	MDDLN55SG
driver	110.	Basi	c type *2	MDDLN55SE
	Fram	e sym	bol	D-frame
Power supply	capacit	y	(kVA)	2.9
Rated output			(W)	1500
Rated torque			(N·m)	4.77
Continuous sta	all torqu	ie	(N·m)	5.72
Momentary Ma	ax. peal	k torqı	ue (N·m)	14.3
Rated current			(A(rms))	8.2
Max. current			(A(o-p))	35
Regenerative	brake		Without option	No limit Note)2
frequency (time	es/min) N	ote)1	DV0P4284	No limit Note)2
Rated rotation	al spee	d	(r/min)	3000
Max. rotationa	l speed		(r/min)	5000
Moment of ine			Without brake	3.10
of rotor (×10 ⁻⁴ kg·m ²)		With brake	3.45	
Recommender ratio of the loa		15 times or less		
Rotary encode	er speci	ficatio	ns *3	23-bit Absolute
	Re	solutio	on per single turn	8388608

 Brake specifications (For details, refer to P.305) This brake will be released when it is energized. Do not use this for braking the motor in motion.

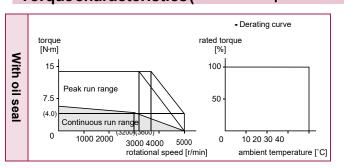
Static friction torque (N·m)	8.0 or more
Engaging time (ms)	50 or less
Releasing time (ms) Note)4	15 or less
Exciting current (DC) (A)	0.81
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

• Permissible load (For details, refer to P.304)

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)4, refer to P.303.
- Dimensions of Driver, refer to P.58.
- *1 $\Box\Box$ in the motor part number represents the motor specifications.
- *2 Basic type and RS485 communication type are "Position control type".
- Detail of model designation, refer to P.22.
- *3 When using a rotary encoder as an incremental system (not using multi-turn data), do not connect a battery for absolute encoder.

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



Dimensions

	Motor specifications	Key way shaft/ Round shaft						
		without brake			with brake			
		without oil seal	with oil seal	with protective lip/ with oil seal	without oil seal	with oil seal	with protective lip/ with oil seal	
	Encoder connector Large size (JL10) type	_	P.128 P.129		_	P.128		
	Encoder connector Small size (JN2) type	_			_	P.:	129	

				AC200 V
Motor model*1	otor model ^{*1} IP67			MSMF202L1□□
			function type	MEDLT83SF
Applicable	Model No.	RS48	5 communication type *2	MEDLN83SG
driver		Basic	type *2	MEDLN83SE
	Fram	e sym	bol	E-frame
Power supply	capacit	y	(kVA)	3.8
Rated output			(W)	2000
Rated torque			(N·m)	6.37
Continuous sta	all torqu	ie	(N·m)	7.64
Momentary Ma	ax. pea	k torqı	ue (N⋅m)	19.1
Rated current			(A(rms))	11.3
Max. current			(A(o-p))	48
Regenerative brake			Without option	No limit Note)2
frequency (time	s/min) N	ote)1	DV0P4285	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	4.06
of rotor (×10 ⁻⁴	kg·m²)		With brake	4.41
Recommended moment of in ratio of the load and the rotor				15 times or less
Rotary encode	r speci	ficatio	ns *3	23-bit Absolute
	Re	solutio	on per single turn	8388608

• Brake specifications (For details, refer to P.305) /This brake will be released when it is energized. Do not use this for braking the motor in motion.

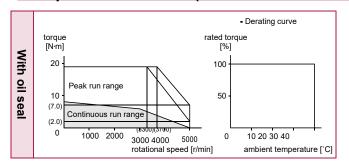
Static friction torque (N·m)	8.0 or more
Engaging time (ms)	50 or less
Releasing time (ms) Note)4	15 or less
Exciting current (DC) (A)	0.81
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

• Permissible load (For details, refer to P.304)

	Radial load P-direction (N)	980
During assembly	Thrust load A-direction (N)	588
accombiy	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)4, refer to P.303.
- Dimensions of Driver, refer to P.59.
- *1 $\Box\Box$ in the motor part number represents the motor specifications.
- *2 Basic type and RS485 communication type are "Position control type". Detail of model designation, refer to P.22.
- *3 When using a rotary encoder as an incremental system (not using multi-turn data), do not connect a battery for absolute encoder.

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



Dimensions

Motor specifications	Key way shaft/ Round shaft						
	without brake			with brake			
	without oil seal	with oil seal	with protective lip/ with oil seal	without oil seal	with oil seal	with protective lip/ with oil seal	
Encoder connector Large size (JL10) type	_	P.129 P.130		_	P.	130	
Encoder connector Small size (JN2) type	_			_	P.130		

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<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 MSMF 3.0 kW [Low inertia 120 mm sq.]

					AC200 V
Motor model*1			IP67		MSMF302L1
		Multi	function type		MFDLTA3SF
Applicable	Model No.	RS48	5 communication	type *2	MFDLNA3SG
driver	110.	Basic	c type *2		MFDLNA3SE
	Fram	e sym	bol		F-frame
Power supply	capacit	у		(kVA)	5.2
Rated output				(W)	3000
Rated torque				(N·m)	9.55
Continuous sta	all torqu	ie		(N·m)	11.0
Momentary Ma	ax. peal	k torqı	orque (N·m)		28.6
Rated current			(A(rms))		18.1
Max. current			(A	(o-p))	77
Regenerative brake			Without option	on	No limit Note)2
frequency (time	s/min) N	ote)1	DV0P4285×	2	No limit Note)2
Rated rotation	al spee	d	(1	/min)	3000
Max. rotationa	l speed		(1	/min)	5000
Moment of ine	rtia		Without brak	æ	7.04
of rotor (×10 ⁻⁴	kg·m²)		With brake		7.38
Recommended moment of inert ratio of the load and the rotor				Note)3	15 times or less
Rotary encode	r speci	ficatio	ns *3		23-bit Absolute
	Re	solutio	on per single tu	ırn	8388608

 Brake specifications (For details, refer to P.305) (This brake will be released when it is energized.) Do not use this for braking the motor in motion.

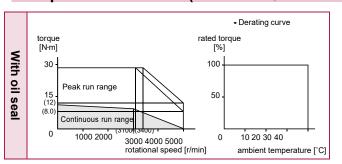
Static friction torque (N·m)	12.0 or more
Engaging time (ms)	80 or less
Releasing time (ms) Note)4	15 or less
Exciting current (DC) (A)	0.81
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

• Permissible load (For details, refer to P.304)

	Radial load P-direction (N)	980
During assembly	Thrust load A-direction (N)	588
documbry	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)4, refer to P.303.
- Dimensions of Driver, refer to P.59.
- *1 $\Box\Box$ in the motor part number represents the motor specifications.
- *2 Basic type and RS485 communication type are "Position control type".
- Detail of model designation, refer to P.22.
- *3 When using a rotary encoder as an incremental system (not using multi-turn data), do not connect a battery for absolute encoder.

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



Dimensions

	Key way shaft/ Round shaft						
Motor specifications	without brake			with brake			
·	without oil seal	with oil seal	with protective lip/ with oil seal	without oil seal	with oil seal	with protective lip/ with oil seal	
Encoder connector Large size (JL10) type	_	P.131 P.131		_	P.	131	
Encoder connector Small size (JN2) type	_			_	P.132		

				AC200 V
Motor model*1			IP67	MSMF402L1□□
		Multi	function type	MFDLTB3SF
Applicable	Model No	RS48	5 communication type *2	MFDLNB3SG
driver		Basic	type *2	MFDLNB3SE
	Fram	e sym	bol	F-frame
Power supply	capacit	y	(kVA)	6.5
Rated output			(W)	4000
Rated torque			(N·m)	12.7
Continuous sta	all torqu	ie	(N·m)	15.2
Momentary Ma	ax. peal	k torqı	ue (N·m)	38.2
Rated current			(A(rms))	19.6
Max. current			(A(o-p))	83
Regenerative	brake		Without option	No limit Note)2
frequency (time	es/min) N	ote)1	DV0P4285×2	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	14.4
of rotor (×10 ⁻⁴	of rotor (×10 ⁻⁴ kg·m ²)		With brake	15.6
Recommender ratio of the loa		15 times or less		
Rotary encode	er speci	ficatio	ns *3	23-bit Absolute
	Re	solutio	on per single turn	8388608

• Brake specifications (For details, refer to P.305) /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
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

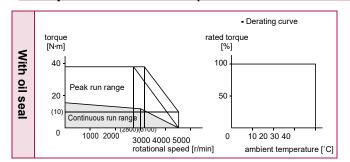
• Permissible load (For details, refer to P.304)

	Radial load P-direction (N)	980
During assembly	Thrust load A-direction (N)	588
accombiy	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)4, refer to P.303.
- Dimensions of Driver, refer to P.59.
- *1 $\Box\Box$ in the motor part number represents the motor specifications.
- *2 Basic type and RS485 communication type are "Position control type".
- Detail of model designation, refer to P.22.
- *3 When using a rotary encoder as an incremental system (not using multi-turn data), do not connect a battery for absolute encoder.

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



Dimensions

	Key way shaft/ Round shaft						
Motor specifications	without brake			with brake			
	without oil seal	with oil seal	with protective lip/ with oil seal	without oil seal	with oil seal	with protective lip/ with oil seal	
Encoder connector Large size (JL10) type	_	P.132		_	P.132		
Encoder connector Small size (JN2) type	_	P.	133	_	P.133		

<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 MSMF 5.0 kW [Low inertia 130 mm sq.]

					AC200 V		
Motor model*1			IP67		MSMF502L1□□		
		Multi	function type		MFDLTB3SF		
Applicable	Model No.	RS48	5 communication typ	e *2	MFDLNB3SG		
driver	110.	Basio	type *2		MFDLNB3SE		
	Fram	e sym	bol		F-frame		
Power supply	capacit	y	(kV	(A)	7.8		
Rated output			(\	N)	5000		
Rated torque			(N·ı	m)	15.9		
Continuous sta	all torqu	ie	(N·ı	m)	19.1		
Momentary Ma	ax. peal	k torqı	ue (N⋅ı	m)	47.7		
Rated current			(A(rms	s))	24.0		
Max. current			1-0)A)	o))	102		
Regenerative I	brake		Without option		No limit Note)2		
frequency (time	s/min) N	ote)1	DV0P4285×2		No limit Note)2		
Rated rotation	al spee	d	(r/min)		3000		
Max. rotationa	l speed		(r/mi	in)	4500		
Moment of ine	rtia		Without brake		19.0		
of rotor (×10 ⁻⁴	kg·m²)		With brake		20.2		
Recommended moment of inertia ratio of the load and the rotor Note)3				e)3	15 times or less		
Rotary encode	r speci	ficatio	ns *3		23-bit Absolute		
	Re	solutio	on per single turn		8388608		

• Brake specifications (For details, refer to P.305) (This brake will be released when it is energized.) Do not use this for braking the motor in motion.

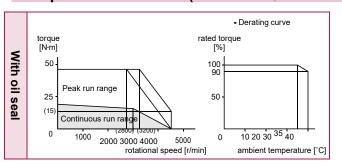
Static friction torque (N·m)	22.0 or more
Engaging time (ms)	110 or less
Releasing time (ms) Note)4	50 or less
Exciting current (DC) (A)	0.90
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

• Permissible load (For details, refer to P.304)

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

- For details of Note)1 to Note)4, refer to P.303.
- Dimensions of Driver, refer to P.59.
- *1 $\Box\Box$ in the motor part number represents the motor specifications.
- *2 Basic type and RS485 communication type are "Position control type".
- Detail of model designation, refer to P.22.
- *3 When using a rotary encoder as an incremental system (not using multi-turn data), do not connect a battery for absolute encoder.

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



Dimensions

		Key way shaft/ Round shaft							
	Motor specifications		without brake with brake						
		without oil seal	with oil seal	with protective lip/ with oil seal	without oil seal	with oil seal	with protective lip/ with oil seal		
	Encoder connector Large size (JL10) type	_	P.133		_	P.134			
	Encoder connector Small size (JN2) type	_	P.134		_	P.	134		

Series

					AC100 V	
Motor model *	1	MQMF011L1				
		Multi	function type		MADLT11SF	
Applicable	Model No	RS48	5 communication typ	e *2	MADLN11SG	
driver	110.	Basio	c type *2		MADLN11SE	
	Fram	e sym	bol		A-frame	
Power supply	capacit	у	(kV	(A)	0.4	
Rated output			(\	N)	100	
Rated torque			(N·ı	m)	0.32	
Continuous st	all torqu	ie	(N·ı	m)	0.33	
Momentary M	ax. pea	k torqı	ue (N₁	m)	1.11	
Rated current			(A(rms	s))	1.6	
Max. current			(A(o-p))		7.9	
Regenerative	brake		Without option		No limit Note)2	
frequency (time	es/min) N	ote)1	1 DV0P4280		No limit Note)2	
Rated rotation	al spee	d	(r/mi	in)	3000	
Max. rotationa	al speed		(r/mi	in)	6500	
Moment of ine	ertia		Without brake		0.15	
of rotor (×10 ⁻⁴	kg·m²)		With brake		0.18	
Recommended moment of inertia ratio of the load and the rotor				e)3	20 times or less	
Rotary encode	er speci	ficatio	ns *3		23-bit Absolute	
	Re	solutio	on per single turn		8388608	

• Brake specifications (For details, refer to P.305) /This brake will be released when it is energized. Do not use this for braking the motor in motion.

Static friction torque (N·m)	0.39 or more
Engaging time (ms)	15 or less
Releasing time (ms) Note)4	20 or less
Exciting current (DC) (A)	0.30
Releasing voltage (DC) (V)	1 or more
Exciting voltage (DC) (V)	24±2.4

• Permissible load (For details, refer to P.304)

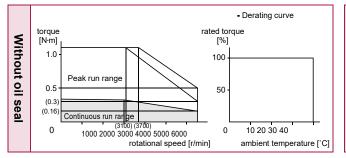
During assembly During operation	Radial load P-direction (N)	147
	Thrust load A-direction (N)	88
	Thrust load B-direction (N)	117.6
	Radial load P-direction (N)	68.6
	Thrust load A, B-direction (N)	58.8

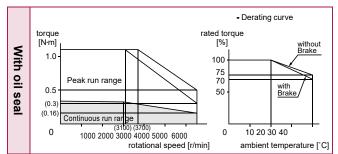
- For details of Note)1 to Note)4, refer to P.303.
- Dimensions of Driver, refer to P.57.

a battery for absolute encoder.

- *1 $\Box\Box$ in the motor part number represents the motor specifications.
- *2 Basic type and RS485 communication type are "Position control type". Detail of model designation, refer to P.22.
- *3 When using a rotary encoder as an incremental system (not using multi-turn data), do not connect

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





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Dimensions

		Round shaft/ Key way, center tap shaft							
Motor specifications	without brake			with brake					
	,	without oil seal	with oil seal	with protective lip/ with oil seal	without oil seal	with oil seal	with protective lip/ with oil seal		
	Leadwire type (IP65)	P.135	P.135	P.135	P.136	P.136	P.136		
	Connector type (IP67)	P.137	P.137	P.137	P.138	P.138	P.138		

<Cautions> Reduce the moment of inertia ratio if high speed response operation is required. Dimensions are subject to change without notice. Contact us or a dealer for the latest information. Read the Instruction Manual carefully and understand all precautions and remarks before using the products.

Specifications

					AC200 V
Motor model	*1	MQMF012L1			
		Multi	function type		MADLT05SF
Applicable	Model No.	RS48	5 communication t	ype *2	MADLN05SG
driver	110.	Basi	c type *2		MADLN05SE
	Fram	e sym	bol		A-frame
Power supply	/ capacit	у	(k	(AV	0.5
Rated output				(W)	100
Rated torque			1)	√m)	0.32
Continuous s	tall torqu	ie	1)	√m)	0.33
Momentary N	lax. peal	k torqı	ue (1	√m)	1.11
Rated curren	t		(A(rı	ms))	1.1
Max. current			(A(c	o-p))	5.5
Regenerative	brake		Without option		No limit Note)2
frequency (tin	nes/min) N	ote)1	DV0P4281		No limit Note)2
Rated rotatio	nal spee	d	(r/ı	min)	3000
Max. rotation	al speed		(r/ı	min)	6500
Moment of in	ertia		Without brake)	0.15
of rotor (×10 ⁻⁴ kg·m ²)			With brake		0.18
Recommended moment of inertia ratio of the load and the rotor					20 times or less
Rotary encod	ler speci	ficatio	ns *3		23-bit Absolute
	Re	solutio	on per single tur	n	8388608

200 V MQMF 100 W [Middle inertia Flat type 60 mm sq.]

 Brake specifications (For details, refer to P.305) (This brake will be released when it is energized.) Do not use this for braking the motor in motion.

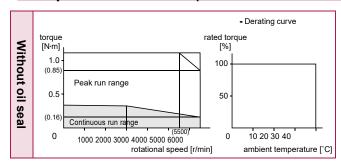
Static friction torque (N·m)	0.39 or more
Engaging time (ms)	15 or less
Releasing time (ms) Note)4	20 or less
Exciting current (DC) (A)	0.30
Releasing voltage (DC) (V)	1 or more
Exciting voltage (DC) (V)	24±2.4

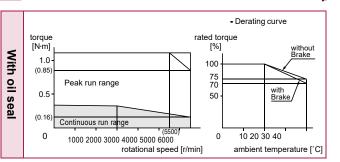
• Permissible load (For details, refer to P.304)

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

- For details of Note)1 to Note)4, refer to P.303.
- Dimensions of Driver, refer to P.57.
- *1 $\Box\Box$ in the motor part number represents the motor specifications.
- *2 Basic type and RS485 communication type are "Position control type".
- Detail of model designation, refer to P.22.
- *3 When using a rotary encoder as an incremental system (not using multi-turn data), do not connect a battery for absolute encoder.

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





Dimensions

	Round shaft/ Key way, center tap shaft						
Motor specifications	without brake		with brake				
'	without oil seal	with oil seal	with protective lip/ with oil seal	without oil seal	with oil seal	with protective lip/ with oil seal	
Leadwire type (IP65)	P.135	P.135	P.135	P.136	P.136	P.136	
Connector type (IP67)	P.137	P.137	P.137	P.138	P.138	P.138	

Series

			AC100 V	
Motor model *1		MQMF021L1		
		Multi	function type	MBDLT21SF
Applicable	Model No.	RS48	5 communication type *2	MBDLN21SG
driver		Basic	c type *2	MBDLN21SE
	Fram	e sym	bol	B-frame
Power supply	capacit	y	(kVA)	0.5
Rated output			(W)	200
Rated torque			(N·m)	0.64
Continuous sta	all torqu	ie	(N·m)	0.76
Momentary Ma	ax. peal	k torqı	ue (N·m)	2.23
Rated current			(A(rms))	2.1
Max. current			(A(o-p))	10.4
Regenerative	brake		Without option	No limit Note)2
frequency (time	es/min) N	ote)1	DV0P4283	No limit Note)2
Rated rotation	al spee	d	(r/min)	3000
Max. rotationa	l speed		(r/min)	6500
Moment of ine	rtia		Without brake	0.50
of rotor (×10 ⁻⁴ kg·m ²)			With brake	0.59
Recommended moment of inertia ratio of the load and the rotor Note)3				20 times or less
Rotary encode	er speci	ficatio	ns *3	23-bit Absolute
	Re	solutio	on per single turn	8388608

• Brake specifications (For details, refer to P.305) /This brake will be released when it is energized. Do not use this for braking the motor in motion.

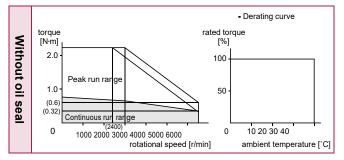
Static friction torque (N·m)	1.6 or more
Engaging time (ms)	70 or less
Releasing time (ms) Note)4	20 or less
Exciting current (DC) (A)	0.36
Releasing voltage (DC) (V)	1 or more
Exciting voltage (DC) (V)	24±2.4

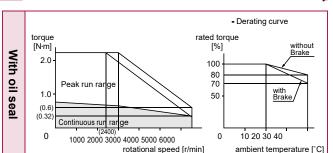
• Permissible load (For details, refer to P.304)

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

- For details of Note)1 to Note)4, refer to P.303.
- Dimensions of Driver, refer to P.57.
- *1 $\Box\Box$ in the motor part number represents the motor specifications.
- *2 Basic type and RS485 communication type are "Position control type".
- Detail of model designation, refer to P.22.
- *3 When using a rotary encoder as an incremental system (not using multi-turn data), do not connect a battery for absolute encoder.

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





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Dimensions

	Round shaft/ Key way, center tap shaft							
Motor specifications	without brake			with brake				
·	without oil seal	with oil seal	with protective lip/ with oil seal	without oil seal	with oil seal	with protective lip/ with oil seal		
Leadwire type (IP65)	P.139	P.139	P.139	P.140	P.140	P.140		
Connector type (IP67)	P.141	P.141	P.141	P.142	P.142	P.142		

<Cautions> Reduce the moment of inertia ratio if high speed response operation is required. Dimensions are subject to change without notice. Contact us or a dealer for the latest information. Read the Instruction Manual carefully and understand all precautions and remarks before using the products.

Specifications

		AC200 V			
Motor model	1	MQMF022L1			
		Multi	function type	MADLT15SF	
Applicable	Model No.	RS48	5 communication type *2	MADLN15SG	
driver	110.	Basi	c type *2	MADLN15SE	
	Fram	e sym	bol	A-frame	
Power supply	capacit	у	(kVA)	0.5	
Rated output			(W)	200	
Rated torque			(N·m)	0.64	
Continuous st	tall torqu	ie	(N·m)	0.76	
Momentary M	lax. peal	k torq	ue (N·m)	2.23	
Rated current			(A(rms))	1.4	
Max. current			(A(o-p))	6.9	
Regenerative	brake		Without option	No limit Note)2	
frequency (tim	es/min) N	ote)1	DV0P4283	No limit Note)2	
Rated rotation	nal spee	d	(r/min)	3000	
Max. rotation	al speed		(r/min)	6500	
Moment of ine	ertia		Without brake	0.50	
of rotor (×10 ⁻⁴ kg·m ²) With		With brake	0.59		
Recommended moment of inertia ratio of the load and the rotor				20 times or less	
Rotary encod	er speci	ficatio	ns *3	23-bit Absolute	
	Re	solutio	on per single turn	8388608	

200 V MQMF 200 W [Middle inertia Flat type 80 mm sq.]

• Brake specifications (For details, refer to P.305) (This brake will be released when it is energized.) Do not use this for braking the motor in motion.

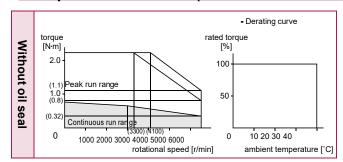
Static friction torque (N·m)	1.6 or more
Engaging time (ms)	70 or less
Releasing time (ms) Note)4	20 or less
Exciting current (DC) (A)	0.36
Releasing voltage (DC) (V)	1 or more
Exciting voltage (DC) (V)	24±2.4

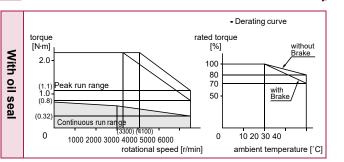
• Permissible load (For details, refer to P.304)

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

- For details of Note)1 to Note)4, refer to P.303.
- Dimensions of Driver, refer to P.57.
- *1 $\square\square$ in the motor part number represents the motor specifications.
- *2 Basic type and RS485 communication type are "Position control type".
- Detail of model designation, refer to P.22.
- *3 When using a rotary encoder as an incremental system (not using multi-turn data), do not connect a battery for absolute encoder.

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





Dimensions

		R	ound shaft/ Key w	ay, center tap sha	aft	
Motor specifications		without brake		with brake		
	without oil seal	with oil seal	with protective lip/ with oil seal	without oil seal	with oil seal	with protective lip/ with oil seal
Leadwire type (IP65)	P.139	P.139	P.139	P.140	P.140	P.140
Connector type (IP67)	P.141	P.141	P.141	P.142	P.142	P.142

<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.

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-82-

• Brake specifications (For details, refer to P.305) /This brake will be released when it is energized. Do not use this for braking the motor in motion.

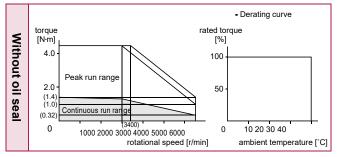
Static friction torque (N·m)	1.6 or more
Engaging time (ms)	70 or less
Releasing time (ms) Note)4	20 or less
Exciting current (DC) (A)	0.36
Releasing voltage (DC) (V)	1 or more
Exciting voltage (DC) (V)	24±2.4

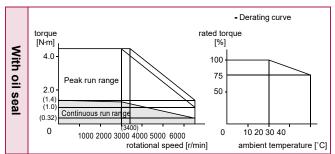
• Permissible load (For details, refer to P.304)

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)4, refer to P.303.
- Dimensions of Driver, refer to P.58.
- *1 □□ in the motor part number represents the motor specifications.
- *2 Basic type and RS485 communication type are "Position control type".
- Detail of model designation, refer to P.22.
- *3 When using a rotary encoder as an incremental system (not using multi-turn data), do not connect a battery for absolute encoder.

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





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Dimensions

			R	ound shaft/ Key w	way, center tap shaft			
	Motor specifications	without brake			with brake			
		without oil seal	with oil seal	with protective lip/ with oil seal	without oil seal	with oil seal	with protective lip/ with oil seal	
	Leadwire type (IP65)	P.143	P.143	P.143	P.144	P.144	P.144	
	Connector type (IP67)	P.145	P.145	P.145	P.146	P.146	P.146	

<Cautions> Reduce the moment of inertia ratio if high speed response operation is required. Dimensions are subject to change without notice. Contact us or a dealer for the latest information. Read the Instruction Manual carefully and understand all precautions and remarks before using the products.

Specifications

				AC200 V
Motor model	*1	MQMF042L1		
		Multi	function type	MBDLT25SF
Applicable	Model No.	RS48	5 communication type *2	MBDLN25SG
driver	110.	Basi	c type *2	MBDLN25SE
	Fram	e sym	bol	B-frame
Power supply	/ capacit	y	(kVA)	0.9
Rated output			(W)	400
Rated torque			(N·m)	1.27
Continuous s	tall torqu	ie	(N·m)	1.40
Momentary N	lax. peal	k torq	ue (N·m)	4.46
Rated curren	t	(A(rms))		2.1
Max. current	current (A(o-p))		10.4	
Regenerative	brake		Without option	No limit Note)2
frequency (tin	nes/min) N	ote)1	DV0P4283	No limit Note)2
Rated rotatio	nal spee	d	(r/min)	3000
Max. rotation	al speed		(r/min)	6500
Moment of in	ertia		Without brake	0.98
of rotor (×10	⁴kg·m²)		With brake	1.06
Recommend ratio of the lo		20 times or less		
Rotary encod	ler speci	ficatio	ns *3	23-bit Absolute
	Re	solutio	on per single turn	8388608

200 V MQMF 400 W [Middle inertia Flat type 80 mm sq.]

• Brake specifications (For details, refer to P.305) This brake will be released when it is energized. Do not use this for braking the motor in motion.

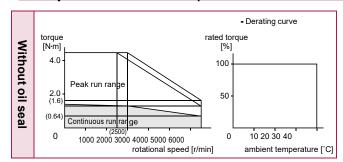
Static friction torque (N·m)	1.6 or more
Engaging time (ms)	70 or less
Releasing time (ms) Note)4	20 or less
Exciting current (DC) (A)	0.36
Releasing voltage (DC) (V)	1 or more
Exciting voltage (DC) (V)	24±2.4

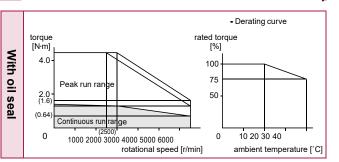
• Permissible load (For details, refer to P.304)

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)4, refer to P.303.
- Dimensions of Driver, refer to P.57.
- *1 □□ in the motor part number represents the motor specifications.
- *2 Basic type and RS485 communication type are "Position control type".
- Detail of model designation, refer to P.22.
- *3 When using a rotary encoder as an incremental system (not using multi-turn data), do not connect a battery for absolute encoder.

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





Dimensions

		Round shaft/ Key way, center tap shaft						
Motor specifications	without brake			with brake				
	·	without oil seal	with oil seal	with protective lip/ with oil seal	without oil seal	with oil seal	with protective lip/ with oil seal	
	Leadwire type (IP65)	P.143	P.143	P.143	P.144	P.144	P.144	
	Connector type (IP67)	P.145	P.145	P.145	P.146	P.146	P.146	

<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. **A6N Series**

Series

Series

• Brake specifications (For details, refer to P.305) /This brake will be released when it is energized. Do not use this for braking the motor in motion.

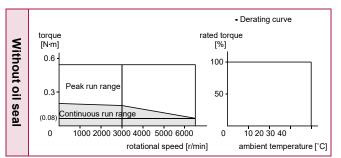
Static friction torque (N·m)	0.38 or more
Engaging time (ms)	35 or less
Releasing time (ms) Note)4	20 or less
Exciting current (DC) (A)	0.30
Releasing voltage (DC) (V)	1 or more
Exciting voltage (DC) (V)	24±2.4

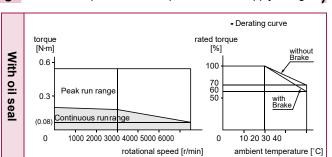
• Permissible load (For details, refer to P.304)

	Radial load P-direction (N)	147
During assembly	Thrust load A-direction (N)	88
assembly	Thrust load B-direction (N)	117.6
During	Radial load P-direction (N)	68.6
operation	Thrust load A, B-direction (N)	49

- For details of Note)1 to Note)4, refer to P.303.
- Dimensions of Driver, refer to P.57.
- *1 □□ in the motor part number represents the motor specifications.
- *2 Basic type and RS485 communication type are "Position control type".
- Detail of model designation, refer to P.22.
- *3 When using a rotary encoder as an incremental system (not using multi-turn data), do not connect a battery for absolute encoder.

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





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Dimensions

	Round shaft/ Key way, center tap shaft						
Motor specifications		without brake		with brake			
·	without oil seal	with oil seal	with protective lip/ with oil seal	without oil seal	with oil seal	with protective lip/ with oil seal	
Leadwire type (IP65)	P.147	P.147	P.147	P.148	P.148	P.148	
Connector type (IP67)	P.149	P.149	P.149	P.150	P.150	P.150	

<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 MHMF 50 W [High inertia 40 mm sq.]

				AC200 V
Motor model	*1	MHMF5AZL1 _□		
		Multi	function type	MADLT05SF
Applicable	Model No.	RS48	5 communication type *2	MADLN05SG
driver	110.	Basi	c type *2	MADLN05SE
	Fram	e sym	bol	A-frame
Power supply	/ capacit	y	(kVA)	0.5
Rated output			(W)	50
Rated torque			(N·m)	0.16
Continuous s	tall torqu	ıe	(N·m)	0.18
Momentary N	lax. peal	k torqı	ue (N·m)	0.56
Rated curren	t	(A(rms))		1.1
Max. current	current (A(o-p))		5.5	
Regenerative	brake		Without option	No limit Note)2
frequency (tin	nes/min) N	ote)1	DV0P4281	No limit Note)2
Rated rotatio	nal spee	d	(r/min)	3000
Max. rotation	al speed		(r/min)	6500
Moment of in			Without brake	0.038
of rotor (×10 ⁻⁴ kg·m²) With brake			With brake	0.042
Recommend ratio of the lo		30 times or less		
Rotary encod	ler speci	ficatio	ns *3	23-bit Absolute
	Re	solutio	on per single turn	8388608

 Brake specifications (For details, refer to P.305) This brake will be released when it is energized. Do not use this for braking the motor in motion.

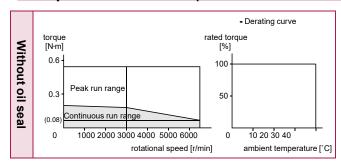
0.38 or more
35 or less
20 or less
0.30
1 or more
24±2.4

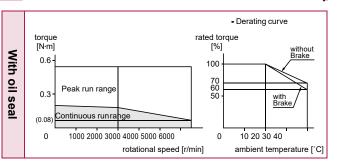
• Permissible load (For details, refer to P.304)

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)	49

- For details of Note)1 to Note)4, refer to P.303.
- Dimensions of Driver, refer to P.57.
- *1 □□ in the motor part number represents the motor specifications.
- *2 Basic type and RS485 communication type are "Position control type".
- Detail of model designation, refer to P.22.
- *3 When using a rotary encoder as an incremental system (not using multi-turn data), do not connect a battery for absolute encoder.

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





Dimensions

		Round shaft/ Key way, center tap shaft						
Motor specifications	without brake			with brake				
	·	without oil seal	with oil seal	with protective lip/ with oil seal	without oil seal	with oil seal	with protective lip/ with oil seal	
	Leadwire type (IP65)	P.147	P.147	P.147	P.148	P.148	P.148	
	Connector type (IP67)	P.149	P.149	P.149	P.150	P.150	P.150	

				AC100 V
Motor model *	1	MHMF011L1		
		Multi	function type	MADLT11SF
Applicable	Model No.	RS48	5 communication type	MADLN11SG
driver	110.	Basi	c type *2	MADLN11SE
	Fram	e sym	bol	A-frame
Power supply	capacit	у	(kVA)	0.4
Rated output			(W)	100
Rated torque			(N·m)	0.32
Continuous st	all torqu	ie	(N·m)	0.33
Momentary M	ax. pea	k torqı	ue (N⋅m)	1.11
Rated current			(A(rms))	1.6
Max. current			(A(o-p))	7.9
Regenerative	brake		Without option	No limit Note)2
frequency (tim	es/min) N	ote)1	DV0P4280	No limit Note)2
Rated rotation	nal spee	d	(r/min)	3000
Max. rotationa	al speed		(r/min)	6500
Moment of ine	ertia		Without brake	0.071
of rotor (×10 ⁻⁴	kg·m²)		With brake	0.074
Recommended moment of inertia ratio of the load and the rotor Note				30 times or less
Rotary encode	er speci	ficatio	ns *3	23-bit Absolute
	Re	solutio	on per single turn	8388608

• Brake specifications (For details, refer to P.305) /This brake will be released when it is energized. Do not use this for braking the motor in motion.

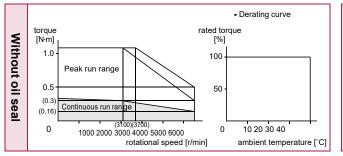
Static friction torque (N·m)	0.38 or more
Engaging time (ms)	35 or less
Releasing time (ms) Note)4	20 or less
Exciting current (DC) (A)	0.30
Releasing voltage (DC) (V)	1 or more
Exciting voltage (DC) (V)	24±2.4

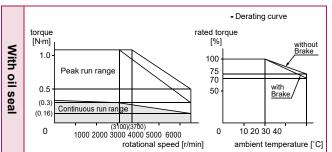
• Permissible load (For details, refer to P.304)

	Radial load P-direction (N)	147
During assembly	Thrust load A-direction (N)	88
accombiy	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)4, refer to P.303.
- Dimensions of Driver, refer to P.57.
- *1 □□ in the motor part number represents the motor specifications.
- *2 Basic type and RS485 communication type are "Position control type".
- Detail of model designation, refer to P.22.
- *3 When using a rotary encoder as an incremental system (not using multi-turn data), do not connect a battery for absolute encoder.

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





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Dimensions

	Round shaft/ Key way, center tap shaft						
Motor specifications		without brake			with brake		
·	without oil seal	with oil seal	with protective lip/ with oil seal	without oil seal	with oil seal	with protective lip/ with oil seal	
Leadwire type (IP65)	P.151	P.151	P.151	P.152	P.152	P.152	
Connector type (IP67)	P.153	P.153	P.153	P.154	P.154	P.154	

<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 MHMF 100 W [High inertia 40 mm sq.]

				AC200 V
Motor model *1			MHMF012L1	
		Multi	function type	MADLT05SF
Applicable	Model No	RS48	5 communication type *	MADLN05SG
driver	110.	Basi	c type *2	MADLN05SE
	Fram	e sym	bol	A-frame
Power supply	/ capacit	y	(kVA)	0.5
Rated output			(W)	100
Rated torque	!		(N·m)	0.32
Continuous s	tall torqu	ie	(N·m)	0.33
Momentary N	omentary Max. peak torque (N·m) 1.11		1.11	
Rated current		(A(rms))	1.1	
Max. current	ax. current			5.5
Regenerative	brake		Without option	No limit Note)2
requency (tin	nes/min) N	ote)1	DV0P4281	No limit Note)2
Rated rotational speed		(r/min)	3000	
Max. rotation	al speed		(r/min)	6500
Moment of in	ertia		Without brake	0.071
of rotor (×10	4 kg·m²)		With brake	0.074
Recommend atio of the lo				30 times or less
Rotary encod	der speci	ficatio	ns *3	23-bit Absolute
	Re	solutio	on per single turn	8388608

• Brake specifications (For details, refer to P.305) This brake will be released when it is energized. Do not use this for braking the motor in motion.

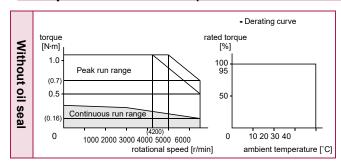
Static friction torque (N·m)	0.38 or more
Engaging time (ms)	35 or less
Releasing time (ms) Note)4	20 or less
Exciting current (DC) (A)	0.30
Releasing voltage (DC) (V)	1 or more
Exciting voltage (DC) (V)	24±2.4

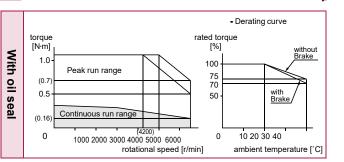
• Permissible load (For details, refer to P.304)

	Radial load P-direction (N)	147
During assembly	Thrust load A-direction (N)	88
doociiibiy	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)4, refer to P.303.
- Dimensions of Driver, refer to P.57.
- *1 $\square\square$ in the motor part number represents the motor specifications.
- *2 Basic type and RS485 communication type are "Position control type".
- Detail of model designation, refer to P.22.
- *3 When using a rotary encoder as an incremental system (not using multi-turn data), do not connect a battery for absolute encoder.

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





Dimensions

	Round shaft/ Key way, center tap shaft						
Motor specifications	without brake			with brake			
·	without oil seal	with oil seal	with protective lip/ with oil seal	without oil seal	with oil seal	with protective lip/ with oil seal	
Leadwire type (IP65)	P.151	P.151	P.151	P.152	P.152	P.152	
Connector type (IP67)	P.153	P.153	P.153	P.154	P.154	P.154	

<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.

Series

A6N Series

Series

Specifications

				AC100 V	
Motor model	*1			MHMF021L1	
		Multi	function type	MBDLT21SF	
Applicable	Model No.	RS48	5 communication type *2	MBDLN21SG	
driver	110.	Basic	c type *2	MBDLN21SE	
	Fram	e sym	bol	B-frame	
Power supply	capacit	у	(kVA)	0.5	
Rated output			(W)	200	
Rated torque			(N·m)	0.64	
Continuous s	tall torqu	ıe	(N·m)	0.76	
Momentary M	lax. pea	k torqı	ue (N·m)	2.23	
Rated curren	t		(A(rms))	2.1	
Max. current			(A(o-p))	10.4	
Regenerative	brake		Without option	No limit Note)2	
frequency (tim	nes/min) N	ote)1	DV0P4283	No limit Note)2	
Rated rotation	nal speed (r/min)		3000		
Max. rotation	al speed		(r/min)	6500	
Moment of in	ertia		Without brake	0.29	
of rotor (×10 ⁻⁴ kg·m²) With brake		With brake	0.31		
Recommender ratio of the lo				30 times or less	
Rotary encod	er speci	ficatio	ns *3	23-bit Absolute	
	Re	solutic	on per single turn	8388608	

• Brake specifications (For details, refer to P.305) /This brake will be released when it is energized. Do not use this for braking the motor in motion.

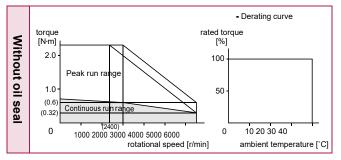
Static friction torque (N·m)	1.6 or more
Engaging time (ms)	50 or less
Releasing time (ms) Note)4	20 or less
Exciting current (DC) (A)	0.36
Releasing voltage (DC) (V)	1 or more
Exciting voltage (DC) (V)	24±2.4

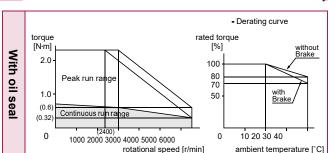
• Permissible load (For details, refer to P.304)

	Radial load P-direction (N)	392
During assembly	Thrust load A-direction (N)	147
accombiy	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)4, refer to P.303.
- Dimensions of Driver, refer to P.57.
- *1 $\Box\Box$ in the motor part number represents the motor specifications.
- *2 Basic type and RS485 communication type are "Position control type". Detail of model designation, refer to P.22.
- *3 When using a rotary encoder as an incremental system (not using multi-turn data), do not connect a battery for absolute encoder.

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





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Dimensions

		Round shaft/ Key way, center tap shaft					
Motor specifications		without brake			with brake		
·	without oil seal	with oil seal	with protective lip/ with oil seal	without oil seal	with oil seal	with protective lip/ with oil seal	
Leadwire type (IP65)	P.155	P.155	P.155	P.156	P.156	P.156	
Connector type (IP67)	P.157	P.157	P.157	P.158	P.158	P.158	

<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 MHMF 200 W [High inertia 60 mm sq.]

				AC200 V
Motor model	*1			MHMF022L1
		Multi	function type	MADLT15SF
Applicable	Model No	RS48	5 communication type *2	MADLN15SG
driver	110.	Basi	c type *2	MADLN15SE
	Fram	e sym	bol	A-frame
Power supply	/ capacit	у	(kVA)	0.5
Rated output			(W)	200
Rated torque			(N·m)	0.64
Continuous s	tall torqu	ie	(N·m)	0.76
Momentary N	omentary Max. peak torque (N·m) 2.23		2.23	
Rated current		(A(rms))	1.4	
Max. current			(A(o-p))	6.9
Regenerative	brake		Without option	No limit Note)2
requency (tin	nes/min) N	ote)1	DV0P4283	No limit Note)2
Rated rotatio	ated rotational speed		(r/min)	3000
Max. rotational speed		(r/min)	6500	
Moment of in	ertia		Without brake	0.29
of rotor (×10 ⁻⁴ kg·m²) With brake		With brake	0.31	
Recommendatio of the lo				30 times or less
Rotary encod	ler speci	ficatio	ns *3	23-bit Absolute
	Re	solutio	on per single turn	8388608

 Brake specifications (For details, refer to P.305) (This brake will be released when it is energized.) Do not use this for braking the motor in motion.

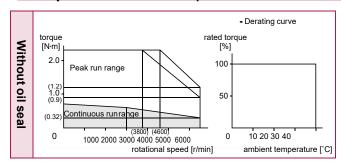
Static friction torque (N·m)	1.6 or more
Engaging time (ms)	50 or less
Releasing time (ms) Note)4	20 or less
Exciting current (DC) (A)	0.36
Releasing voltage (DC) (V)	1 or more
Exciting voltage (DC) (V)	24±2.4

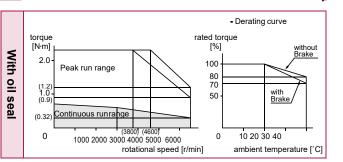
• Permissible load (For details, refer to P.304)

	Radial load P-direction (N)	392
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)4, refer to P.303.
- Dimensions of Driver, refer to P.57.
- *1 $\square\square$ in the motor part number represents the motor specifications.
- *2 Basic type and RS485 communication type are "Position control type".
- Detail of model designation, refer to P.22.
- *3 When using a rotary encoder as an incremental system (not using multi-turn data), do not connect a battery for absolute encoder.

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





Dimensions

		R	ound shaft/ Key w	vay, center tap shaft	aft		
Motor specifications		without brake		with brake			
·	without oil seal	with oil seal	with protective lip/ with oil seal	without oil seal	with oil seal	with protective lip/ with oil seal	
Leadwire type (IP65)	P.155	P.155	P.155	P.156	P.156	P.156	
Connector type (IP67)	P.157	P.157	P.157	P.158	P.158	P.158	

				AC100 V
Motor model *	Motor model ^{*1}			MHMF041L1
		Multit	function type	MCDLT31SF
Applicable	Model No	RS48	5 communication type *2	MCDLN31SG
driver		Basic	type *2	MCDLN31SE
	Frame	sym	bol	C-frame
Power supply	capacity		(kVA)	0.9
Rated output			(W)	400
Rated torque			(N·m)	1.27
Continuous st	all torque	;	(N·m)	1.40
Momentary M	ax. peak	torqu	ue (N·m)	4.46
Rated current	Rated current		(A(rms))	4.1
Max. current	ax. current		(A(o-p))	20.3
Regenerative	brake		Without option	No limit Note)2
frequency (tim	es/min) Not	e)1	DV0P4282	No limit Note)2
Rated rotation	nal speed		(r/min)	3000
Max. rotationa	al speed		(r/min)	6500
Moment of ine	ertia		Without brake	0.56
of rotor (×10 ⁻⁴	kg·m²)		With brake	0.58
Recommende ratio of the loa				30 times or less
Rotary encod	er specifi	catio	ns *3	23-bit Absolute
	Res	olutic	on per single turn	8388608

• Brake specifications (For details, refer to P.305) /This brake will be released when it is energized. Do not use this for braking the motor in motion.

Static friction torque (N·m)	1.6 or more
Engaging time (ms)	50 or less
Releasing time (ms) Note)4	20 or less
Exciting current (DC) (A)	0.36
Releasing voltage (DC) (V)	1 or more
Exciting voltage (DC) (V)	24±2.4

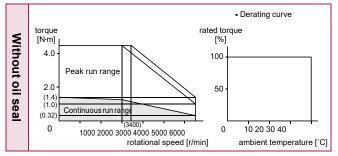
• Permissible load (For details, refer to P.304)

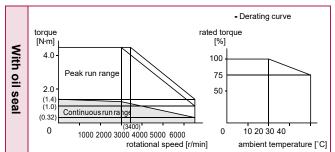
Radial load P-direction (N)	392
Thrust load A-direction (N)	147
Thrust load B-direction (N)	196
Radial load P-direction (N)	245
Thrust load A, B-direction (N)	98
	Thrust load A-direction (N) Thrust load B-direction (N) Radial load P-direction (N)

- For details of Note)1 to Note)4, refer to P.303.
- Dimensions of Driver, refer to P.58.
- *1 $\Box\Box$ in the motor part number represents the motor specifications.
- *2 Basic type and RS485 communication type are "Position control type".
- Detail of model designation, refer to P.22.
- *3 When using a rotary encoder as an incremental system (not using multi-turn data), do not connect a battery for absolute encoder.

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





Dimensions

		Round shaft/ Key way, center tap shaft					
Motor specifications	without brake			with brake			
·	without oil seal	with oil seal	with protective lip/ with oil seal	without oil seal	with oil seal	with protective lip/ with oil seal	
Leadwire type (IP65)	P.159	P.159	P.159	P.160	P.160	P.160	
Connector type (IP67)	P.161	P.161	P.161	P.162	P.162	P.162	

<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 MHMF 400 W [High inertia 60 mm sq.]

				AC200 V
Motor model ^{*1}			MHMF042L1	
		Multi	function type	MBDLT25SF
Applicable	Model No	RS48	5 communication type *2	MBDLN25SG
driver	110.	Basi	c type *2	MBDLN25SE
	Fram	e sym	bol	B-frame
Power supply	/ capacit	у	(kVA)	0.9
Rated output			(W)	400
Rated torque			(N·m)	1.27
Continuous s	tall torqu	ie	(N·m)	1.40
Momentary N	lax. peal	k torqı	ue (N·m)	4.46
Rated current		(A(rms))	2.1	
Max. current			(A(o-p))	10.4
Regenerative	brake		Without option	No limit Note)2
requency (tin	nes/min) N	ote)1	DV0P4283	No limit Note)2
Rated rotational speed		d	(r/min)	3000
Max. rotational speed			(r/min)	6500
Moment of in	ertia		Without brake	0.56
of rotor (×10 ⁻⁴ kg·m²) With brake			0.58	
Recommendation				30 times or less
Rotary encod	ler speci	ficatio	ns *3	23-bit Absolute
	Re	solutio	on per single turn	8388608

 Brake specifications (For details, refer to P.305) (This brake will be released when it is energized.) Do not use this for braking the motor in motion.

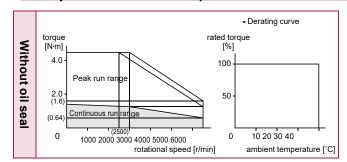
Static friction torque (N·m)	1.6 or more
Engaging time (ms)	50 or less
Releasing time (ms) Note)4	20 or less
Exciting current (DC) (A)	0.36
Releasing voltage (DC) (V)	1 or more
Exciting voltage (DC) (V)	24±2.4

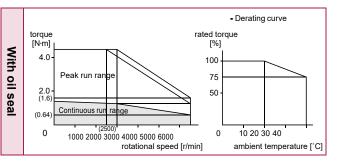
• Permissible load (For details, refer to P.304)

	Radial load P-direction (N)	392
During assembly	Thrust load A-direction (N)	147
assembly	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)4, refer to P.303.
- Dimensions of Driver, refer to P.57.
- *1 $\square\square$ in the motor part number represents the motor specifications.
- *2 Basic type and RS485 communication type are "Position control type".
- Detail of model designation, refer to P.22.
- *3 When using a rotary encoder as an incremental system (not using multi-turn data), do not connect a battery for absolute encoder.

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





Dimensions

	Round shaft/ Key way, center tap shaft						
Motor specifications	without brake			with brake			
,	without oil seal	with oil seal	with protective lip/ with oil seal	without oil seal	with oil seal	with protective lip/ with oil seal	
Leadwire type (IP65)	P.159	P.159	P.159	P.160	P.160	P.160	
Connector type (IP67)	P.161	P.161	P.161	P.162	P.162	P.162	

				AC200 V
Motor model	*1			MHMF082L1
		Multi	function type	MCDLT35SF
Applicable	Model No	RS48	5 communication type *2	MCDLN35SG
driver		Basi	c type *2	MCDLN35SE
	Fram	e sym	ibol	C-frame
Power supply	capacit	у	(kVA)	1.8
Rated output			(W)	750
Rated torque			(N·m)	2.39
Continuous s	tall torqu	ie	(N·m)	2.86
Momentary M	Momentary Max. peak torque		ue (N·m)	8.36
Rated current		(A(rms))	3.8	
Max. current			(A(o-p))	18.8
Regenerative	erative brake		Without option	No limit Note)2
frequency (tim	ies/min) N	ote)1	DV0P4283	No limit Note)2
Rated rotation	nal spee	d	(r/min)	3000
Max. rotation	al speed		(r/min)	6000
Moment of in	ertia		Without brake	1.56
of rotor (×10	⁴kg·m²)		With brake	1.66
	Recommended moment of inertia ratio of the load and the rotor Note)3			20 times or less
Rotary encod	er speci	ficatio	ns *3	23-bit Absolute
	Re	solutio	on per single turn	8388608

• Brake specifications (For details, refer to P.305) /This brake will be released when it is energized. Do not use this for braking the motor in motion.

Static friction torque (N·m)	3.8 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±2.4

• Permissible load (For details, refer to P.304)

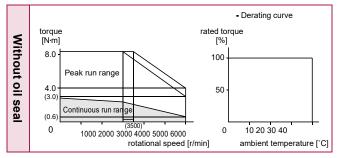
	Radial load P-direction (N)	686
During assembly	Thrust load A-direction (N)	294
assembly	Thrust load B-direction (N)	392
During	Radial load P-direction (N)	392
operation	Thrust load A, B-direction (N)	147

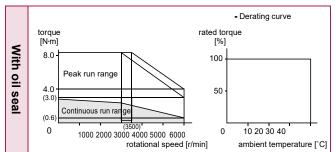
- For details of Note)1 to Note)4, refer to P.303.
- Dimensions of Driver, refer to P.58.

a battery for absolute encoder.

- *1 $\Box\Box$ in the motor part number represents the motor specifications.
- *2 Basic type and RS485 communication type are "Position control type". Detail of model designation, refer to P.22.
- *3 When using a rotary encoder as an incremental system (not using multi-turn data), do not connect

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





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Dimensions

	Round shaft/ Key way, center tap shaft							
Motor specifications		without brake		with brake				
	without oil seal	with oil seal	with protective lip/ with oil seal	without oil seal	with oil seal	with protective lip/ with oil seal		
Leadwire type (IP65)	P.163	P.163	P.163	P.164	P.164	P.164		
Connector type (IP67)	P.165	P.165	P.165	P.166	P.166	P.166		

<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 MHMF 1000 W [High inertia 80 mm sq.]

		AC200 V		
Motor model	*1	MHMF092L1		
		Multi	function type	MDDLT55SF
Applicable	Model No.	RS48	5 communication type *2	MDDLN55SG
driver		Basi	c type *2	MDDLN55SE
	Fram	e sym	bol	D-frame
Power supply	/ capacit	y	(kVA)	2.4
Rated output			(W)	1000
Rated torque			(N·m)	3.18
Continuous s	tall torqu	ie	(N·m)	3.34
Momentary M	1ax. peal	k torqı	ue (N·m)	11.1
Rated curren	t		(A(rms))	5.7
Max. current	ax. current (A(o-p))			28.2
Regenerative brake Without opti			Without option	No limit Note)2
frequency (tim	nes/min) N	ote)1	DV0P4284	No limit Note)2
Rated rotatio	nal spee	d	(r/min)	3000
Max. rotation	al speed		(r/min)	6000
Moment of in			Without brake	2.03
of rotor (×10	⁴kg·m²)		With brake	2.13
Recommenderatio of the lo		15 times or less		
Rotary encod	ler speci	ficatio	ns *3	23-bit Absolute
	Re	solutio	on per single turn	8388608

• Brake specifications (For details, refer to P.305) This brake will be released when it is energized. Do not use this for braking the motor in motion.

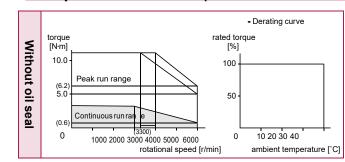
Static friction torque (N·m)	3.8 or more
Engaging time (ms)	70 or less
Releasing time (ms) Note)4	20 or less
Exciting current (DC) (A)	0.42
Releasing voltage (DC) (V)	1 or more
Exciting voltage (DC) (V)	24±2.4

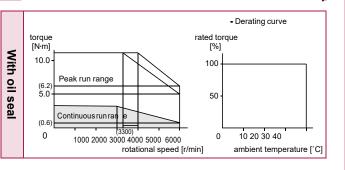
• Permissible load (For details, refer to P.304)

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

- For details of Note)1 to Note)4, refer to P.303.
- Dimensions of Driver, refer to P.58.
- *1 $\square\square$ in the motor part number represents the motor specifications.
- *2 Basic type and RS485 communication type are "Position control type".
- Detail of model designation, refer to P.22.
- *3 When using a rotary encoder as an incremental system (not using multi-turn data), do not connect a battery for absolute encoder.

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





Dimensions

	Round shaft/ Key way, center tap shaft							
Motor specifications		without brake		with brake				
	without oil seal	with oil seal	with protective lip/ with oil seal	without oil seal	with oil seal	with protective lip/ with oil seal		
Leadwire type (IP65)	P.167	P.167	P.167	P.168	P.168	P.168		
Connector type (IP67)	P.169	P.169	P.169	P.170	P.170	P.170		

<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
Motor model*1			IP67	MHMF102L1
		Multif	unction type	MDDLT45SF
Applicable	Model No.	RS48	communication type *2	MDDLN45SG
driver	140.	Basic	type *2	MDDLN45SE
	Fram	e syml	bol	D-frame
Power supply	capacit	у	(kVA)	2.4
Rated output			(W)	1000
Rated torque			(N·m)	4.77
Continuous sta	all torqu	ie	(N·m)	5.25
Momentary Ma	ax. pea	k torqu	ıe (N⋅m)	14.3
Rated current			(A(rms))	5.2
Max. current			(A(o-p))	22
Regenerative	brake		Without option	No limit Note)2
frequency (time	es/min) N	ote)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	22.9
of rotor ($\times 10^{-4}$	kg·m²)		With brake	24.1
Recommended moment of inertia ratio of the load and the rotor Note)3				5 times or less
Rotary encode	r speci	ficatio	ns *3	23-bit Absolute
	Re	solutio	n per single turn	8388608

• Brake specifications (For details, refer to P.305) /This brake will be released when it is energized. Do not use this for braking the motor in motion.

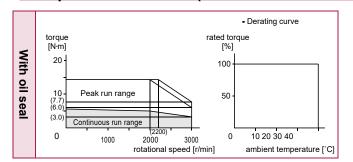
Static friction torque (N·m)	13.7 or more
Engaging time (ms)	100 or less
Releasing time (ms) Note)4	50 or less
Exciting current (DC) (A)	0.79
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

• Permissible load (For details, refer to P.304)

	Radial load P-direction (N)	980
During assembly	Thrust load A-direction (N)	588
assembly	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)4, refer to P.303.
- Dimensions of Driver, refer to P.58.
- *1 $\Box\Box$ in the motor part number represents the motor specifications.
- *2 Basic type and RS485 communication type are "Position control type". Detail of model designation, refer to P.22.
- *3 When using a rotary encoder as an incremental system (not using multi-turn data), do not connect a battery for absolute encoder.

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



Dimensions

	Key way shaft/ Round shaft						
Motor specifications	without brake			with brake			
	without oil seal	with oil seal	with protective lip/ with oil seal	without oil seal	with oil seal	with protective lip/ with oil seal	
Encoder connector Large size (JL10) type	_	P.171		_	P.:	171	
Encoder connector Small size (JN2) type	_	P.171		_	P.	172	

<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 MHMF 1.5 kW [High inertia 130 mm sq.]

Specifications

		AC200 V		
Motor model*1			IP67	MHMF152L1□□
		Multi	function type	MDDLT55SF
Applicable	Model No.	RS48	5 communication type *2	MDDLN55SG
driver		Basic	c type *2	MDDLN55SE
	Fram	e sym	bol	D-frame
Power supply	capacit	y	(kVA)	2.9
Rated output			(W)	1500
Rated torque			(N·m)	7.16
Continuous sta	all torqu	ıe	(N·m)	7.52
Momentary Ma	ax. peal	k torqı	ue (N·m)	21.5
Rated current (A(rms))				8.0
Max. current (A(o-p))			34	
Regenerative brake Without option			No limit Note)2	
frequency (time	es/min) N	ote)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	33.4
of rotor (×10 ⁻⁴	kg·m²)		With brake	34.6
Recommende ratio of the loa		5 times or less		
Rotary encode	er speci	ficatio	ns *3	23-bit Absolute
	Re	solutio	on per single turn	8388608

• Brake specifications (For details, refer to P.305) (This brake will be released when it is energized.) Do not use this for braking the motor in motion.

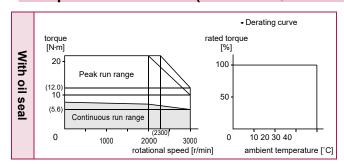
Static friction torque (N·m)	13.7 or more
Engaging time (ms)	100 or less
Releasing time (ms) Note)4	50 or less
Exciting current (DC) (A)	0.79
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

• Permissible load (For details, refer to P.304)

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)4, refer to P.303.
- Dimensions of Driver, refer to P.58.
- *1 $\square\square$ in the motor part number represents the motor specifications.
- *2 Basic type and RS485 communication type are "Position control type".
- Detail of model designation, refer to P.22.
- *3 When using a rotary encoder as an incremental system (not using multi-turn data), do not connect a battery for absolute encoder.

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



Dimensions

		Key way shaft/ Round shaft						
	Motor specifications	without brake			with brake			
· ·		without oil seal	with oil seal	with protective lip/ with oil seal	without oil seal	with oil seal	with protective lip/ with oil seal	
	Encoder connector Large size (JL10) type	_	P. ⁻	P.172		P.:	172	
	Encoder connector Small size (JN2) type	_	P.173		_	P.173		

<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.

Rated current

Max. current

Regenerative brake frequency (times/min) Note)1

Rated rotational speed

Max. rotational speed

Moment of inertia

of rotor (×10⁻⁴ kg·m²)

Recommended moment of inertia

ratio of the load and the rotor

Rotary encoder specifications *3

(A(rms))

(A(o-p))

(r/min)

(r/min)

Note)3

Without option

Without brake

With brake

Resolution per single turn

DV0P4285

A6N Series

Series

Series

• Brake specifications (For details, refer to P.305) AC200 V /This brake will be released when it is energized.

12.5

53

No limit Note)2

No limit Note)2

2000

3000

55.7

61.0

5 times or less

23-bit Absolute

8388608

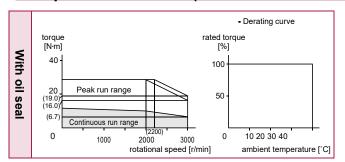
Motor model*1 IP67		MHMF202L1	(Do not	Do not use this for braking the motor in motion.		
		Multifunction type	MEDLT83SF	Static friction torque (N·m)		25.0 or more
Applicable driver	Model No.	RS485 communication type *2	MEDLN83SG	Engagir	Engaging time (ms)	
		Basic type *2	MEDLN83SE	Releasing time (ms) Note)4		25 or less
	Fram	e symbol	E-frame	Exciting	Exciting current (DC) (A)	
Power supply capacity (kVA)		3.8	Releasi	Releasing voltage (DC) (V)		
Rated output (W)		2000	Exciting	Exciting voltage (DC) (V)		
Rated torque (N·m)		9.55	• Porm	Permissible load (For details, refer to P.304)		
Continuous stall torque (N·m)		11.5	Fermissible Idau (For details, refer to		51 (01 .504)	
Momentary Max. peak torque (N·m)		28.6	During	Radial load P-direction (N)	1666	

During assembly	Radial load P-direction (N)	1666
	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)4, refer to P.303.
- Dimensions of Driver, refer to P.59.
- *1 $\Box\Box$ in the motor part number represents the motor specifications.
- *2 Basic type and RS485 communication type are "Position control type". Detail of model designation, refer to P.22.
- *3 When using a rotary encoder as an incremental system (not using multi-turn data), do not connect a battery for absolute encoder.

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



Dimensions

	Key way shaft/ Round shaft						
Motor specifications	without brake			with brake			
·	without oil seal	with oil seal	with protective lip/ with oil seal	without oil seal	with oil seal	with protective lip/ with oil seal	
Encoder connector Large size (JL10) type	_	P. ⁻	P.173		P.	174	
Encoder connector Small size (JN2) type	_	P.174		<u> </u>	P.174		

<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 MHMF 3.0 kW [High inertia 176 mm sq.]

					AC200 V
Motor model*1		IP67			MHMF302L1
		Multi	function type		MFDLTA3SF
Applicable	Model No	RS48	5 communication ty	pe *2	MFDLNA3SG
driver	110.	Basic	c type *2		MFDLNA3SE
	Fram	e sym	bol		F-frame
Power supply	capacit	y	(k\	/A)	5.2
Rated output			((W)	3000
Rated torque			(N	·m)	14.3
Continuous sta	all torqu	ie	(N	·m)	17.2
Momentary Ma	ax. pea	k torqı	ue (N	·m)	43.0
Rated current			(A(rm	າຣ))	17.0
Max. current			(A(o-	-p))	72
Regenerative I	brake		Without option		No limit Note)2
frequency (time	s/min) N	ote)1	DV0P4285×2		No limit Note)2
Rated rotation	al spee	d	(r/m	nin)	2000
Max. rotationa	l speed		(r/m	nin)	3000
Moment of ine	rtia		Without brake		85.3
of rotor (×10 ⁻⁴ kg·m ²)		With brake		90.7	
Recommended moment of inertia ratio of the load and the rotor					5 times or less
Rotary encode	r speci	ficatio	ns *3		23-bit Absolute
	Re	solutio	on per single turn	1	8388608

 Brake specifications (For details, refer to P.305) This brake will be released when it is energized. Do not use this for braking the motor in motion.

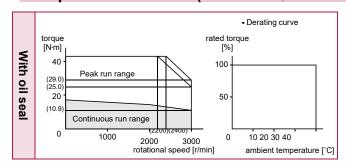
25.0 or more
80 or less
25 or less
1.29
2 or more
24±2.4

• Permissible load (For details, refer to P.304)

	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)4, refer to P.303.
- Dimensions of Driver, refer to P.59.
- *1 $\square\square$ in the motor part number represents the motor specifications.
- *2 Basic type and RS485 communication type are "Position control type".
- Detail of model designation, refer to P.22.
- *3 When using a rotary encoder as an incremental system (not using multi-turn data), do not connect a battery for absolute encoder.

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



Dimensions

	Key way shaft/ Round shaft					
Motor specifications	without brake			with brake		
·	without oil seal	with oil seal	with protective lip/ with oil seal	without oil seal	with oil seal	with protective lip/ with oil seal
Encoder connector Large size (JL10) type	_	P. ⁻	P.175		P.	175
Encoder connector Small size (JN2) type	_	P.175		_	P.176	

<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
Motor model*1 IP67			MHMF402L1	
		Multi	function type	MFDLTB3SF
Applicable	Model No.	RS48	5 communication type *2	MFDLNB3SG
driver		Basic	type *2	MFDLNB3SE
	Fram	e sym	bol	F-frame
Power supply	capacit	у	(kVA)	6.5
Rated output			(W)	4000
Rated torque			(N·m)	19.1
Continuous sta	all torqu	ie	(N·m)	22.0
Momentary Ma	ax. peal	k torqı	ue (N⋅m)	57.3
Rated current			(A(rms))	20
Max. current			(A(o-p))	85
Regenerative	brake		Without option	No limit Note)2
frequency (time	s/min) N	ote)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	104
of rotor ($\times 10^{-4}$	kg·m²)		With brake	110
Recommended moment of inertia ratio of the load and the rotor				5 times or less
Rotary encode	r speci	ficatio	ns *3	23-bit Absolute
	Re	solutio	on per single turn	8388608

• Brake specifications (For details, refer to P.305) /This brake will be released when it is energized. Do not use this for braking the motor in motion.

Static friction torque (N·m)	25.0 or more
Engaging time (ms)	80 or less
Releasing time (ms) Note)4	25 or less
Exciting current (DC) (A)	1.29
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4
	•

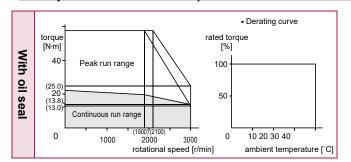
• Permissible load (For details, refer to P.304)

	Radial load P-direction (N)	1666
During assembly	Thrust load A-direction (N)	784
assembly	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)4, refer to P.303.
- Dimensions of Driver, refer to P.59.
- *1 $\Box\Box$ in the motor part number represents the motor specifications.
- *2 Basic type and RS485 communication type are "Position control type". Detail of model designation, refer to P.22.
- *3 When using a rotary encoder as an incremental system (not using multi-turn data), do not connect a battery for absolute encoder.

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



Dimensions

	Key way shaft/ Round shaft						
Motor specifications	without brake			with brake			
·	without oil seal	with oil seal	with protective lip/ with oil seal	without oil seal	with oil seal	with protective lip/ with oil seal	
Encoder connector Large size (JL10) type	_	P.176		_	P.176		
Encoder connector Small size (JN2) type	_	P.177		_	P.:	177	

<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 MHMF 5.0 kW [High inertia 176 mm sq.]

				AC200 V
Motor model*1	IP67			MHMF502L1 _□
		Multi	function type	MFDLTB3SF
Applicable	Model No	RS48	5 communication type	^{*2} MFDLNB3SG
driver	110.	Basio	type *2	MFDLNB3SE
	Fram	e sym	bol	F-frame
Power supply	capacit	y	(kVA	7.8
Rated output			(W	5000
Rated torque			(N·m) 23.9
Continuous sta	all torqu	ie	(N·m	26.3
Momentary Ma	ax. peal	k torqı	ue (N⋅m	71.6
Rated current			(A(rms)	23.3
Max. current			(A(o-p)	99
Regenerative I	brake		Without option	No limit Note)2
frequency (time	s/min) N	ote)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	146
of rotor (×10 ⁻⁴ kg·m²)			With brake	151
Recommended moment of inertia ratio of the load and the rotor Note)3				5 times or less
Rotary encode	r speci	ficatio	ns *3	23-bit Absolute
	Re	solutio	on per single turn	8388608

 Brake specifications (For details, refer to P.305) (This brake will be released when it is energized.) Do not use this for braking the motor in motion.

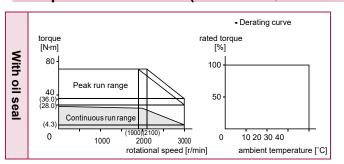
Static friction torque (N·m)	44.1 or more
Engaging time (ms)	150 or less
Releasing time (ms) Note)4	30 or less
Exciting current (DC) (A)	1.29
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

• Permissible load (For details, refer to P.304)

During assembly	Radial load P-direction (N)	1666
	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)4, refer to P.303.
- Dimensions of Driver, refer to P.59.
- *1 □□ in the motor part number represents the motor specifications.
- *2 Basic type and RS485 communication type are "Position control type".
- Detail of model designation, refer to P.22.
- *3 When using a rotary encoder as an incremental system (not using multi-turn data), do not connect a battery for absolute encoder.

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



Dimensions

	Key way shaft/ Round shaft							
Motor specifications	without brake			with brake				
·	without oil seal	with oil seal	with protective lip/ with oil seal	without oil seal	with oil seal	with protective lip/ with oil seal		
Encoder connector Large size (JL10) type	_	P.177		_	P.178			
Encoder connector Small size (JN2) type	_	P.178		_	P.	178		

				AC200 V
Motor model*1			IP67	MHMF752L1
		Multi	function type	MGDLTC3SF
Applicable	Model No.	RS48	5 communication type *2	_
driver		Basic	type *2	_
	Fram	e sym	bol	G-frame
Power supply	capacit	y	(kVA)	11
Rated output			(W)	7500
Rated torque			(N·m)	47.8
Continuous sta	all torqu	ie	(N·m)	47.8
Momentary Ma	ax. pea	k torqı	ue (N⋅m)	125
Rated current			(A(rms))	40.2
Max. current			(A(o-p))	154
Regenerative	brake		Without option	No limit Note)2
frequency (time	es/min) N	ote)1	DV0P4285×3	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	272
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 encode	er speci	ficatio	ns *3	23-bit Absolute
	Re	solutio	on per single turn	8388608

• Brake specifications (For details, refer to P.305) /This brake will be released when it is energized. Do not use this for braking the motor in motion.

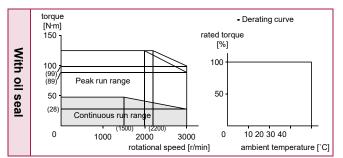
Static friction torque (N·m)	63.0 or more
Engaging time (ms)	200 or less
Releasing time (ms) Note)4	80 or less
Exciting current (DC) (A)	1.29
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	15 or less

• Permissible load (For details, refer to P.304)

	Radial load P-direction (N)	2058
During assembly	Thrust load A-direction (N)	980
assembly	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)4, refer to P.303.
- Dimensions of Driver, refer to P.60.
- *1 $\Box\Box$ in the motor part number represents the motor specifications.
- *2 Basic type and RS485 communication type are "Position control type". Detail of model designation, refer to P.22.
- *3 When using a rotary encoder as an incremental system (not using multi-turn data), do not connect a battery for absolute encoder.

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



Dimensions

		Round shaft/ Key way, center tap shaft							
Motor specifications		without brake		with brake					
	without oil seal	with oil seal	with protective lip/ with oil seal	without oil seal	with oil seal	with protective lip/ with oil seal			
	Encoder connector Large size (JL10) type	_	P.179	_	_	P.179	_		
	Encoder connector Small size (JN2) type	_	P.179	_	_	P.180	_		

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<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 MDMF 1.0 kW [Middle inertia 130 mm sq.]

					AC200 V
Motor model*1			IP67		MDMF102L1
		Multi	function type		MDDLT45SF
Applicable	Model No	RS48	5 communication ty	/pe *2	MDDLN45SG
driver	110.	Basic	c type *2		MDDLN45SE
	Fram	e sym	bol		D-frame
Power supply	capacit	y	(k)	VA)	2.4
Rated output			((W)	1000
Rated torque			(N	ŀm)	4.77
Continuous sta	all torqu	ie	(N	ŀm)	5.25
Momentary Ma	ax. pea	k torqı	ue (N	ŀm)	14.3
Rated current			(A(rm	าร))	5.2
Max. current			(A(o	-p))	22
Regenerative I	brake		Without option		No limit Note)2
frequency (time	es/min) N	ote)1	DV0P4284		No limit Note)2
Rated rotation	al spee	d	(r/n	nin)	2000
Max. rotationa	l speed		(r/n	nin)	3000
Moment of ine	rtia		Without brake		6.18
of rotor (×10 ⁻⁴ kg·m ²)			With brake		7.40
Recommended moment of inertia ratio of the load and the rotor Note)			ote)3	10 times or less	
Rotary encode	r speci	ficatio	ns *3		23-bit Absolute
	Re	solutio	on per single turr	ı	8388608

 Brake specifications (For details, refer to P.305) (This brake will be released when it is energized.) Do not use this for braking the motor in motion.

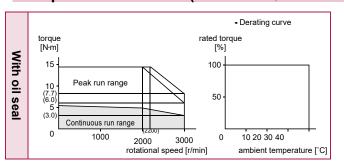
Static friction torque (N·m)	13.7 or more
Engaging time (ms)	100 or less
Releasing time (ms) Note)4	50 or less
Exciting current (DC) (A)	0.79
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

• Permissible load (For details, refer to P.304)

During assembly	Radial load P-direction (N)	980
	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)4, refer to P.303.
- Dimensions of Driver, refer to P.58.
- *1 $\square\square$ in the motor part number represents the motor specifications.
- *2 Basic type and RS485 communication type are "Position control type".
- Detail of model designation, refer to P.22.
- *3 When using a rotary encoder as an incremental system (not using multi-turn data), do not connect a battery for absolute encoder.

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



Dimensions

	Key way shaft/ Round shaft							
Motor specifications	without brake			with brake				
	without oil seal	with oil seal	with protective lip/ with oil seal	without oil seal	with oil seal	with protective lip/ with oil seal		
Encoder connector Large size (JL10) type	_	P.180		_	P.180			
Encoder connector Small size (JN2) type	_	P.181		_	P.181			

<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.

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				AC200 V
Motor model*1			IP67	MDMF152L1
		Multi	function type	MDDLT55SF
Applicable	Model No	RS48	5 communication type *2	MDDLN55SG
driver	110.	Basio	c type *2	MDDLN55SE
	Fram	e sym	bol	D-frame
Power supply	capacit	у	(kVA)	2.9
Rated output			(W)	1500
Rated torque			(N·m)	7.16
Continuous sta	all torqu	ie	(N·m)	7.52
Momentary Ma	ax. pea	k torqı	ue (N⋅m)	21.5
Rated current (A(r			(A(rms))	8.0
Max. current			(A(o-p))	34
Regenerative	brake		Without option	No limit Note)2
frequency (time	es/min) N	ote)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	9.16
of rotor ($\times 10^{-4}$	kg·m²)		With brake	10.4
Recommende ratio of the loa			10 times or less	
Rotary encode	r speci	ficatio	ns *3	23-bit Absolute
	Re	solutio	on per single turn	8388608

• Brake specifications (For details, refer to P.305) /This brake will be released when it is energized. Do not use this for braking the motor in motion.

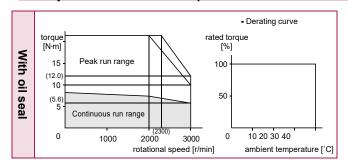
Static friction torque (N·m)	13.7 or more
Engaging time (ms)	100 or less
Releasing time (ms) Note)4	50 or less
Exciting current (DC) (A)	0.79
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

• Permissible load (For details, refer to P.304)

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
	Thrust load A-direction (N) Thrust load B-direction (N) Radial load P-direction (N)

- For details of Note)1 to Note)4, refer to P.303.
- Dimensions of Driver, refer to P.58.
- *1 $\Box\Box$ in the motor part number represents the motor specifications.
- *2 Basic type and RS485 communication type are "Position control type". Detail of model designation, refer to P.22.
- *3 When using a rotary encoder as an incremental system (not using multi-turn data), do not connect a battery for absolute encoder.

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



Dimensions

	Key way shaft/ Round shaft							
Motor specifications	without brake			with brake				
	without oil seal	with oil seal	with protective lip/ with oil seal	without oil seal	with oil seal	with protective lip/ with oil seal		
Encoder connector Large size (JL10) type	_	P.181		_	P.182			
Encoder connector Small size (JN2) type	_	P.182		_	P.182			

<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 MDMF 2.0 kW [Middle inertia 130 mm sq.]

					AC200 V
Motor model*1			IP67		MDMF202L1
		Multi	function type		MEDLT83SF
Applicable	Model No	RS48	5 communication type	e *2	MEDLN83SG
driver	110.	Basic	c type *2		MEDLN83SE
	Fram	e sym	bol		E-frame
Power supply	capacit	y	(kVA	١)	3.8
Rated output			(V	/)	2000
Rated torque			(N·n	1)	9.55
Continuous sta	all torqu	ie	(N·n	1)	10.0
Momentary Ma	ax. peal	k torqı	ue (N⋅n	า)	28.6
Rated current			(A(rms))	9.9
Max. current			(A(o-p))	42
Regenerative I	brake		Without option		No limit Note)2
frequency (time	es/min) N	ote)1	DV0P4285		No limit Note)2
Rated rotation	al spee	d	(r/mir	า)	2000
Max. rotationa	l speed		(r/mir	า)	3000
Moment of ine	rtia		Without brake		12.1
of rotor (×10 ⁻⁴ kg·m ²)			With brake		13.3
Recommended moment of inertia ratio of the load and the rotor					10 times or less
Rotary encode	r speci	ficatio	ns *3		23-bit Absolute
	Re	solutio	on per single turn		8388608

 Brake specifications (For details, refer to P.305) (This brake will be released when it is energized.) Do not use this for braking the motor in motion.

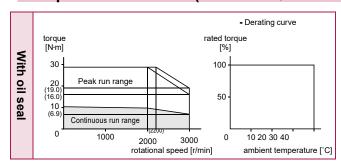
Static friction torque (N·m)	13.7 or more
Engaging time (ms)	100 or less
Releasing time (ms) Note)4	50 or less
Exciting current (DC) (A)	0.79
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

• Permissible load (For details, refer to P.304)

During assembly	Radial load P-direction (N)	980
	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)4, refer to P.303.
- Dimensions of Driver, refer to P.59.
- *1 $\square\square$ in the motor part number represents the motor specifications.
- *2 Basic type and RS485 communication type are "Position control type".
- Detail of model designation, refer to P.22.
- *3 When using a rotary encoder as an incremental system (not using multi-turn data), do not connect a battery for absolute encoder.

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



Dimensions

	Key way shaft/ Round shaft						
Motor specifications	without brake			with brake			
	without oil seal	with oil seal	with protective lip/ with oil seal	without oil seal	with oil seal	with protective lip/ with oil seal	
Encoder connector Large size (JL10) type	_	P.183		_	P.183		
Encoder connector Small size (JN2) type	_	P.183		_	P.184		

				AC200 V
Motor model*1			IP67	MDMF302L1 _□
		Multi	function type	MFDLTA3SF
Applicable	Model No.	RS48	5 communication type *2	MFDLNA3SG
driver		Basic	c type *2	MFDLNA3SE
	Fram	e sym	bol	F-frame
Power supply	capacit	y	(kVA)	5.2
Rated output			(W)	3000
Rated torque			(N·m)	14.3
Continuous sta	all torqu	ıe	(N·m)	15.0
Momentary Ma	ax. pea	k torqı	ue (N·m)	43.0
Rated current (A(rms))				16.4
Max. current (A(o-p))				70
Regenerative	brake		Without option	No limit Note)2
frequency (time	s/min) N	ote)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	18.6
of rotor ($\times 10^{-4}$	kg·m²)		With brake	19.6
Recommender ratio of the loa		10 times or less		
Rotary encode	r speci	ficatio	ns *3	23-bit Absolute
	Re	solutio	on per single turn	8388608

• Brake specifications (For details, refer to P.305) /This brake will be released when it is energized. Do not use this for braking the motor in motion.

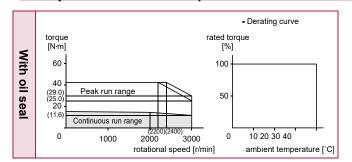
Static friction torque (N·m)	22.0 or more
Engaging time (ms)	110 or less
Releasing time (ms) Note)4	50 or less
Exciting current (DC) (A)	0.90
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

• Permissible load (For details, refer to P.304)

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

- For details of Note)1 to Note)4, refer to P.303.
- Dimensions of Driver, refer to P.59.
- *1 $\Box\Box$ in the motor part number represents the motor specifications.
- *2 Basic type and RS485 communication type are "Position control type". Detail of model designation, refer to P.22.
- *3 When using a rotary encoder as an incremental system (not using multi-turn data), do not connect a battery for absolute encoder.

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



Dimensions

	Key way shaft/ Round shaft						
Motor specifications	without brake			with brake			
	without oil seal	with oil seal	with protective lip/ with oil seal	without oil seal	with oil seal	with protective lip/ with oil seal	
Encoder connector Large size (JL10) type	_	P.184		_	P.	184	
Encoder connector Small size (JN2) type	_	P.185		_	P.:	185	

<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 MDMF 4.0 kW [Middle inertia 176 mm sq.]

					AC200 V
Motor model*1			IP67		MDMF402L1
		Multi	function type		MFDLTB3SF
Applicable	Model No.	RS48	5 communication	type *2	MFDLNB3SG
driver	110.	Basic	c type *2		MFDLNB3SE
	Fram	e sym	bol		F-frame
Power supply	capacit	у		(kVA)	6.5
Rated output				(W)	4000
Rated torque				(N·m)	19.1
Continuous sta	all torqu	ie		(N·m)	22.0
Momentary Ma	mentary Max. peak torque (N·n		(N·m)	57.3	
Rated current	ted current (A(rms)) 20		20.0		
Max. current	lax. current (A			(o-p))	85
Regenerative I	brake		Without option	on	No limit Note)2
frequency (time	es/min) N	ote)1	DV0P4285×2		No limit Note)2
Rated rotational speed		d	(1	r/min)	2000
Max. rotationa	l speed		(1	r/min)	3000
Moment of ine	rtia		Without brak	е	46.9
of rotor (×10 ⁻⁴	kg·m²)		With brake		52.3
Recommended moment of inertia ratio of the load and the rotor Note)3			10 times or less		
Rotary encode	er speci	ficatio	ns *3		23-bit Absolute
	Re	solutio	on per single tu	ırn	8388608

 Brake specifications (For details, refer to P.305) (This brake will be released when it is energized.) Do not use this for braking the motor in motion.

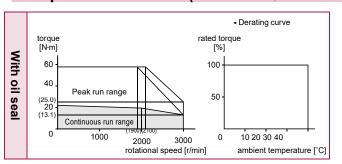
Static friction torque (N·m)	25.0 or more
Engaging time (ms)	80 or less
Releasing time (ms) Note)4	25 or less
Exciting current (DC) (A)	1.29
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

• Permissible load (For details, refer to P.304)

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

- For details of Note)1 to Note)4, refer to P.303.
- Dimensions of Driver, refer to P.59.
- *1 $\square\square$ in the motor part number represents the motor specifications.
- *2 Basic type and RS485 communication type are "Position control type".
- Detail of model designation, refer to P.22.
- *3 When using a rotary encoder as an incremental system (not using multi-turn data), do not connect a battery for absolute encoder.

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



Dimensions

	Key way shaft/ Round shaft						
Motor specifications	without brake			with brake			
·	without oil seal	with oil seal	with protective lip/ with oil seal	without oil seal	with oil seal	with protective lip/ with oil seal	
Encoder connector Large size (JL10) type	_	P.185		_	P.	186	
Encoder connector Small size (JN2) type	_	P.186		_	P.	186	

<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.

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				AC200 V
Motor model*1			IP67	MDMF502L1□□
		Multi	function type	MFDLTB3SF
Applicable	Model No.	RS48	5 communication type *2	MFDLNB3SG
driver		Basic	type *2	MFDLNB3SE
	Fram	e sym	bol	F-frame
Power supply	capacit	у	(kVA)	7.8
Rated output			(W)	5000
Rated torque			(N·m)	23.9
Continuous sta	all torqu	ie	(N·m)	26.3
Momentary Ma	entary Max. peak torque (N·m)		71.6	
Rated current			(A(rms))	23.3
Max. current			(A(o-p))	99
Regenerative	brake		Without option	No limit Note)2
frequency (time	s/min) N	ote)1	DV0P4285×2	No limit Note)2
Rated rotation	al spee	d	(r/min)	2000
Max. rotationa	onal speed (r/min) 3000		3000	
Moment of ine	rtia		Without brake	58.2
of rotor ($\times 10^{-4}$	kg·m²)		With brake	63.0
Recommended moment of inertia ratio of the load and the rotor Note)3			10 times or less	
Rotary encode	r speci	ficatio	ns *3	23-bit Absolute
	Re	solutio	on per single turn	8388608

• Brake specifications (For details, refer to P.305) /This brake will be released when it is energized. Do not use this for braking the motor in motion.

Static friction torque (N·m)	44.1 or more
Engaging time (ms)	150 or less
Releasing time (ms) Note)4	30 or less
Exciting current (DC) (A)	1.29
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

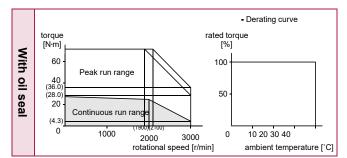
• Permissible load (For details, refer to P.304)

	Radial load P-direction (N)	1666
During assembly	Thrust load A-direction (N)	784
assembly	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)4, refer to P.303.
- Dimensions of Driver, refer to P.59.
- *1 $\Box\Box$ in the motor part number represents the motor specifications.
- *2 Basic type and RS485 communication type are "Position control type". Detail of model designation, refer to P.22.
- *3 When using a rotary encoder as an incremental system (not using multi-turn data), do not connect a battery for absolute encoder.

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



Dimensions

	Key way shaft/ Round shaft						
Motor specifications	without brake			with brake			
	without oil seal	with oil seal	with protective lip/ with oil seal	without oil seal	with oil seal	with protective lip/ with oil seal	
Encoder connector Large size (JL10) type	_	P.187		_	P.	187	
Encoder connector Small size (JN2) type	_	P.187		_	P.	188	

<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 MDMF 7.5 kW [Middle inertia 176 mm sq.]

				AC200 V
Motor model*1			IP67	MDMF752L1
		Multi	function type	MGDLTC3SF
Applicable	Model No	RS48	5 communication type	*2
Iriver	140.	Basic	c type *2	_
	Fram	e sym	bol	G-frame
Power supply	capacit	y	(kVA) 11
Rated output			(W	7500
Rated torque			(N·m) 47.8
Continuous stall torque		(N·m) 47.8	
Momentary Max. peak torqu		ue (N⋅m) 125	
Rated current		(A(rms)) 40.2	
Max. current		(A(o-p)) 154	
Regenerative l	brake		Without option	No limit Note)2
frequency (time	s/min) N	ote)1	DV0P4285×3	No limit Note)2
Rated rotational speed		d	(r/min) 1500
Max. rotationa	l speed		(r/min) 3000
Moment of ine	rtia		Without brake	122
of rotor (×10 ⁻⁴ kg·m²) With brake			127	
Recommende atio of the loa				10 times or less
Rotary encode	r speci	ficatio	ns *3	23-bit Absolute
	Re	solutio	on per single turn	8388608

 Brake specifications (For details, refer to P.305) (This brake will be released when it is energized.) Do not use this for braking the motor in motion.

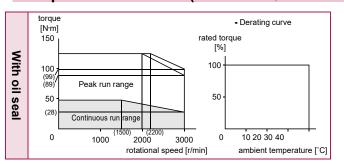
Static friction torque (N·m)	63.0 or more
Engaging time (ms)	200 or less
Releasing time (ms) Note)4	80 or less
Exciting current (DC) (A)	1.29
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	15 or less

• Permissible load (For details, refer to P.304)

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)	1176
	Thrust load A, B-direction (N)	490

- For details of Note)1 to Note)4, refer to P.303.
- Dimensions of Driver, refer to P.60.
- *1 $\Box\Box$ in the motor part number represents the motor specifications.
- *2 Basic type and RS485 communication type are "Position control type".
- Detail of model designation, refer to P.22.
- *3 When using a rotary encoder as an incremental system (not using multi-turn data), do not connect a battery for absolute encoder.

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



Dimensions

	Round shaft/ Key way, center tap shaft						
Motor specifications	without brake			with brake			
•	without oil seal	with oil seal	with protective lip/ with oil seal	without oil seal	with oil seal	with protective lip/ with oil seal	
Encoder connector Large size (JL10) type	_	P.188	_	_	P.188	_	
Encoder connector Small size (JN2) type	_	P.189	_	_	P.189	_	

<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.

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				AC200 V
Motor model*1			IP67	MDMFC12L1
		Multi	function type	MHDLTE3SF
Applicable	Model No	RS48	5 communication type *2	_
driver		Basic	c type *2	_
	Fram	e sym	bol	H-frame
Power supply	capacit	у	(kVA)	15
Rated output			(W)	11000
Rated torque			(N·m)	70.0
Continuous sta	all torqu	ie	(N·m)	70.0
Momentary Ma	ax. pea	k torqı	ue (N⋅m)	175
Rated current			(A(rms))	57.1
Max. current			(A(o-p))	209
Regenerative	brake		Without option	No limit Note)2
frequency (time	es/min) N	ote)1	DV0P4285×6	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	205
of rotor (×10 ⁻⁴ kg·m²)			With brake	214
Recommender ratio of the loa		10 times or less		
Rotary encode	r speci	ficatio	ns *3	23-bit Absolute
	Re	solutio	on per single turn	8388608

• Brake specifications (For details, refer to P.305) /This brake will be released when it is energized. Do not use this for braking the motor in motion.

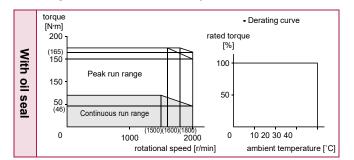
Static friction torque (N·m)	100 or more
Engaging time (ms)	300 or less
Releasing time (ms) Note)4	140 or less
Exciting current (DC) (A)	1.08
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	15 or less

• Permissible load (For details, refer to P.304)

During assembly	Radial load P-direction (N)	4508
	Thrust load A-direction (N)	1470
	Thrust load B-direction (N)	2646
During	Radial load P-direction (N)	2254
operation	Thrust load A, B-direction (N)	686

- For details of Note)1 to Note)4, refer to P.303.
- Dimensions of Driver, refer to P.61.
- *1 $\Box\Box$ in the motor part number represents the motor specifications.
- *2 Basic type and RS485 communication type are "Position control type". Detail of model designation, refer to P.22.
- *3 When using a rotary encoder as an incremental system (not using multi-turn data), do not connect a battery for absolute encoder.

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



Dimensions

	Round shaft/ Key way, center tap shaft							
Motor specifications		without brake		with brake				
	without oil seal	with oil seal	with protective lip/ with oil seal	without oil seal	with oil seal	with protective lip/ with oil seal		
Encoder connector Large size (JL10) type	_	P.189	_	_	P.190	_		
Encoder connector Small size (JN2) type	_	P.190	_	_	P.190	_		

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<Cautions> Reduce the moment of inertia ratio if high speed response operation is required. Dimensions are subject to change without notice. Contact us or a dealer for the latest information. Read the Instruction Manual carefully and understand all precautions and remarks before using the products.

Specifications

				AC200 V
Motor model*1			IP67	MDMFC52L1
		Multi	function type	MHDLTE3SF
Applicable	Model No	RS48	5 communication type *	_
driver	140.	Basio	type *2	_
	Fram	e sym	bol	H-frame
Power supply	capacit	y	(kVA)	20
Rated output			(W)	15000
Rated torque			(N·m)	95.5
Continuous sta	all torqu	ie	(N·m)	95.5
Momentary Ma	ax. peal	k torqı	ue (N⋅m)	224
Rated current			(A(rms))	65.8
Max. current			(A(o-p))	225
Regenerative I	brake		Without option	No limit Note)2
frequency (time	s/min) N	ote)1	DV0P4285×6	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	280
of rotor (×10 ⁻⁴ kg·m ²)			With brake	289
Recommender ratio of the loa		10 times or less		
Rotary encode	r speci	ficatio	ns *3	23-bit Absolute
	Re	solutio	on per single turn	8388608

200 V MDMF 15.0 kW [Middle inertia 220 mm sq.]

 Brake specifications (For details, refer to P.305) This brake will be released when it is energized. Do not use this for braking the motor in motion.

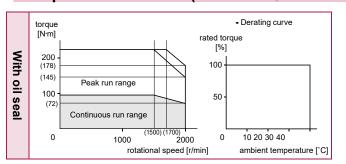
Static friction torque (N·m)	100 or more
Engaging time (ms)	300 or less
Releasing time (ms) Note)4	140 or less
Exciting current (DC) (A)	1.08
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	15 or less

• Permissible load (For details, refer to P.304)

During assembly During operation	Radial load P-direction (N)	4508
	Thrust load A-direction (N)	1470
	Thrust load B-direction (N)	2646
	Radial load P-direction (N)	2254
	Thrust load A, B-direction (N)	686

- For details of Note)1 to Note)4, refer to P.303.
- Dimensions of Driver, refer to P.61.
- *1 $\Box\Box$ in the motor part number represents the motor specifications.
- *2 Basic type and RS485 communication type are "Position control type".
- Detail of model designation, refer to P.22.
- *3 When using a rotary encoder as an incremental system (not using multi-turn data), do not connect a battery for absolute encoder.

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



Dimensions

		Round shaft/ Key way, center tap shaft						
	Motor specifications	without brake			with brake			
		without oil seal	with oil seal	with protective lip/ with oil seal	without oil seal	with oil seal	with protective lip/ with oil seal	
	Encoder connector Large size (JL10) type	_	P.191	_	_	P.191	_	
	Encoder connector Small size (JN2) type	_	P.191	_	_	P.192	_	

				AC200 V
Motor model*1			IP44	MDMFD22L1
		Multi	function type	MHDLTF3SF
Applicable	Model No.	RS48	5 communication type *2	_
driver	140.	Basic	c type *2	_
	Fram	e sym	bol	H-frame
Power supply	capacit	у	(kVA)	28
Rated output			(W)	22000
Rated torque			(N·m)	140
Continuous sta	all torqu	ie	(N·m)	140
Momentary Ma	ax. pea	κ torqι	ue (N⋅m)	350
Rated current			(A(rms))	80.9
Max. current			(A(o-p))	294
Regenerative	brake		Without option	No limit Note)2
frequency (time	es/min) N	ote)1	DV0P4285×6	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	431
of rotor (×10 ⁻⁴ kg·m ²)			With brake	455
Recommenderatio of the loa			10 times or less	
Rotary encode	r speci	ficatio	ns *3	23-bit Absolute
	Re	solutio	on per single turn	8388608

• Brake specifications (For details, refer to P.305) (This brake will be released when it is energized. Do not use this for braking the motor in motion.

Static friction torque (N·m)	200 or more
Engaging time (ms)	300 or less
Releasing time (ms) Note)4	150 or less
Exciting current (DC) (A)	1.72
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	15 or less

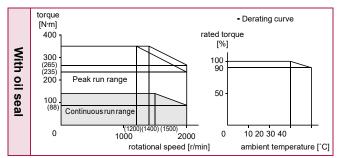
• Permissible load (For details, refer to P.304)

	i Cillii	or to 1 .00 i)	
		Radial load P-direction (N)	4508
	During assembly	Thrust load A-direction (N)	1470
		Thrust load B-direction (N)	2646
	During operation	Radial load P-direction (N)	2254
		Thrust load A, B-direction (N)	686

- For details of Note)1 to Note)4, refer to P.303.
- Dimensions of Driver, refer to P.61.
- *1 □□ in the motor part number represents the motor specifications.
- *2 Basic type and RS485 communication type are "Position control type".
- Detail of model designation, refer to P.22.
- *3 When using a rotary encoder as an incremental system (not using multi-turn data), do not connect a battery for absolute encoder.

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



Dimensions

		Round shaft/ Key way, center tap shaft							
	Motor specifications	without brake			with brake				
		without oil seal	with oil seal	with protective lip/ with oil seal	without oil seal	with oil seal	with protective lip/ with oil seal		
	Encoder connector Large size (JL10) type	_	P.192	_	_	P.192	_		
	Encoder connector Small size (JN2) type	_	P.193	_	_	P.193	_		

<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 MGMF 0.85 kW

		AC200 V		
Motor model*1	Notor model*1 IP67			MGMF092L1□□
		Multi	function type	MDDLT45SF
Applicable	Model No	RS48	5 communication type *2	MDDLN45SG
driver		Basic	c type *2	MDDLN45SE
	Fram	e sym	bol	D-frame
Power supply	capacit	у	(kVA)	2.0
Rated output			(W)	850
Rated torque			(N·m)	5.41
Continuous sta	all torqu	ie	(N·m)	5.41
Momentary Ma	ax. peal	k torqı	ue (N⋅m)	14.3
Rated current			(A(rms))	5.9
Max. current			(A(o-p))	22
Regenerative brake			Without option	No limit Note)2
frequency (times/min) Note)1		ote)1	DV0P4284	No limit Note)2
Rated rotational speed			(r/min)	1500
Max. rotationa	l speed		(r/min)	3000
Moment of ine	rtia		Without brake	6.18
of rotor (×10 ⁻⁴	kg·m²)		With brake	7.40
Recommender ratio of the loa				10 times or less
Rotary encode	er speci	ficatio	ns *3	23-bit Absolute
	Re	solutio	on per single turn	8388608

[Middle inertia Low speed/High torque type]

• Brake specifications (For details, refer to P.305) (This brake will be released when it is energized.) Do not use this for braking the motor in motion.

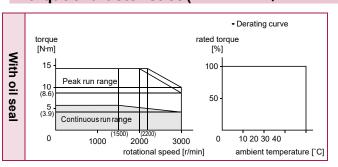
Static friction torque (N·m)	13.7 or more
Engaging time (ms)	100 or less
Releasing time (ms) Note)4	50 or less
Exciting current (DC) (A)	0.79
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

• Permissible load (For details, refer to P.304)

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
	Thrust load A-direction (N) Thrust load B-direction (N) Radial load P-direction (N)

- For details of Note)1 to Note)4, refer to P.303.
- Dimensions of Driver, refer to P.58.
- *1 $\square\square$ in the motor part number represents the motor specifications.
- *2 Basic type and RS485 communication type are "Position control type".
- Detail of model designation, refer to P.22.
- *3 When using a rotary encoder as an incremental system (not using multi-turn data), do not connect a battery for absolute encoder.

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



Dimensions

		Key way shaft/ Round shaft							
	Motor specifications	without brake			with brake				
	·	without oil seal	with oil seal	with protective lip/ with oil seal	without oil seal	with oil seal	with protective lip/ with oil seal		
	Encoder connector Large size (JL10) type	_	P.	193	_	P.194			
	Encoder connector Small size (JN2) type	_	P.194		_	P.194			

<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. **A6N Series**

A6B

Series

A6B

Series

Specifications

				AC200 V
Motor model*1			IP67	MGMF132L1
Applicable		Multi	function type	MDDLT55SF
	Model No.	RS48	5 communication type *2	MDDLN55SG
driver	110.	Basi	c type *2	MDDLN55SE
	Fram	e sym	bol	D-frame
Power supply	capacit	у	(kVA)	2.6
Rated output			(W)	1300
Rated torque			(N·m)	8.28
Continuous sta	all torqu	ıe	(N·m)	8.28
Momentary Ma	ax. pea	k torq	ue (N·m)	23.3
Rated current			(A(rms))	9.3
Max. current			(A(o-p))	37
Regenerative brake frequency (times/min) Note)1		Without option	No limit Note)2	
		ote)1	DV0P4284	No limit Note)2
Rated rotation	al spee	d	(r/min)	1500
Max. rotationa	l speed		(r/min)	3000
Moment of inertia		Without brake	9.16	
of rotor (×10 ⁻⁴	kg·m²)		With brake	10.4
Recommended moment of in ratio of the load and the roto				10 times or less
Rotary encode	r speci	ficatio	ns *3	23-bit Absolute
Resolution			on per single turn	8388608

• Brake specifications (For details, refer to P.305) (This brake will be released when it is energized. Do not use this for braking the motor in motion.

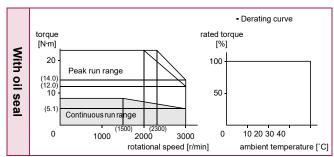
Static friction torque (N·m)	13.7 or more
Engaging time (ms)	100 or less
Releasing time (ms) Note)4	50 or less
Exciting current (DC) (A)	0.79
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

• Permissible load (For details, refer to P.304)

_		•
. .	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)	686
operation	Thrust load A, B-direction (N)	196

- For details of Note)1 to Note)4, refer to P.303.
- Dimensions of Driver, refer to P.58.
- *1 □□ in the motor part number represents the motor specifications.
- *2 Basic type and RS485 communication type are "Position control type".
- Detail of model designation, refer to P.22.
- *3 When using a rotary encoder as an incremental system (not using multi-turn data), do not connect a battery for absolute encoder.

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



Dimensions

	Key way shaft/ Round shaft						
Motor specifications	without brake			with brake			
	without oil seal	with oil seal	with protective lip/ with oil seal	without oil seal	with oil seal	with protective lip/ with oil seal	
Encoder connector Large size (JL10) type	_	P.	195	_	P. ⁻	195	
Encoder connector Small size (JN2) type	_	P.195		_	P.196		

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<Cautions> Reduce the moment of inertia ratio if high speed response operation is required. Dimensions are subject to change without notice. Contact us or a dealer for the latest information. Read the Instruction Manual carefully and understand all precautions and remarks before using the products.

Specifications

				AC200 V
Motor model*1			IP67	MGMF182L1
		Multifunction type		MEDLT83SF
Applicable	Model No.	RS48	5 communication type *2	MEDLN83SG
driver	110.	Basi	c type *2	MEDLN83SE
	Fram	e sym	bol	E-frame
Power supply	capacit	y	(kVA)	3.4
Rated output			(W)	1800
Rated torque			(N·m)	11.5
Continuous sta	all torqu	ie	(N·m)	11.5
Momentary Ma	ax. peal	k torqı	ue (N·m)	28.7
Rated current			(A(rms))	11.8
Max. current			(A(o-p))	42
Regenerative brake frequency (times/min) Note)1			Without option	No limit Note)2
		ote)1	DV0P4285×2	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	12.1
of rotor (×10 ⁻⁴ kg·m ²)		With brake	13.3	
Recommended moment of inertial ratio of the load and the rotor				10 times or less
Rotary encode	er speci	ficatio	ns *3	23-bit Absolute
	Re	solutio	on per single turn	8388608

 Brake specifications (For details, refer to P.305) (This brake will be released when it is energized.) Do not use this for braking the motor in motion.

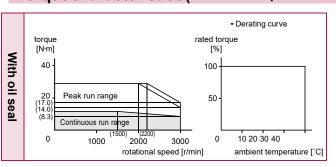
Static friction torque (N·m)	13.7 or more
Engaging time (ms)	100 or less
Releasing time (ms) Note)4	50 or less
Exciting current (DC) (A)	0.79
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

• Permissible load (For details, refer to P.304)

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)4, refer to P.303.
- Dimensions of Driver, refer to P.59.
- *1 $\square\square$ in the motor part number represents the motor specifications.
- *2 Basic type and RS485 communication type are "Position control type".
- Detail of model designation, refer to P.22.
- *3 When using a rotary encoder as an incremental system (not using multi-turn data), do not connect a battery for absolute encoder.

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



Dimensions

	Motor specifications	Key way shaft/ Round shaft						
		without brake			with brake			
		without oil seal	with oil seal	with protective lip/ with oil seal	without oil seal	with oil seal	with protective lip/ with oil seal	
	Encoder connector Large size (JL10) type	_	P.196 P.197		_	P.196		
	Encoder connector Small size (JN2) type	_			_	P.:	197	

A6B

Series

Specifications

				AC200 V
Motor model*1		MGMF242L1□□		
			function type	MEDLT93SF
Applicable	Model No	RS48	5 communication type *2	MEDLN93SG
driver		Basi	c type *2	MEDLN93SE
	Fram	e sym	bol	E-frame
Power supply	capacit	y	(kVA)	4.5
Rated output			(W)	2400
Rated torque			(N·m)	15.3
Continuous sta	all torqu	ie	(N·m)	15.3
Momentary Ma	ax. pea	k torqı	ue (N⋅m)	45.2
Rated current			(A(rms))	16.0
Max. current			(A(o-p))	67
Regenerative	brake		Without option	No limit Note)2
frequency (time	es/min) N	ote)1	DV0P4285×2	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	46.9
of rotor ($\times 10^{-4}$	kg·m²)		With brake	52.3
Recommended moment of ine ratio of the load and the rotor				10 times or less
Rotary encode	r speci	ficatio	ns *3	23-bit Absolute
	Re	solutio	on per single turn	8388608

• Brake specifications (For details, refer to P.305) (This brake will be released when it is energized. Do not use this for braking the motor in motion.

[Middle inertia Low speed/High torque type]

Static friction torque (N·m)	25.0 or more
Engaging time (ms)	80 or less
Releasing time (ms) Note)4	25 or less
Exciting current (DC) (A)	1.29
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

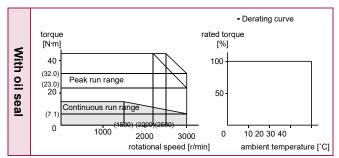
• Permissible load (For details, refer to P.304)

T CITIIISSIDIC TOUG (I or detaile) for to 1 to 1/								
	Radial load P-direction (N)	1666						
During assembly	Thrust load A-direction (N)	784						
documbry	Thrust load B-direction (N)	980						
During	Radial load P-direction (N)	1176						
operation	Thrust load A, B-direction (N)	490						

- For details of Note)1 to Note)4, refer to P.303.
- Dimensions of Driver, refer to P.59.
- *1 □□ in the motor part number represents the motor specifications.
- *2 Basic type and RS485 communication type are "Position control type".
- Detail of model designation, refer to P.22.
- *3 When using a rotary encoder as an incremental system (not using multi-turn data), do not connect a battery for absolute encoder.

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



Dimensions

	Key way shaft/ Round shaft						
Motor specifications	without brake			with brake			
	without oil seal	with oil seal	with protective lip/ with oil seal	without oil seal	with oil seal	with protective lip/ with oil seal	
Encoder connector Large size (JL10) type	_	P.197 P.198		_	P.	198	
Encoder connector Small size (JN2) type	_			_	P.	198	

<Cautions> Reduce the moment of inertia ratio if high speed response operation is required. Dimensions are subject to change without notice. Contact us or a dealer for the latest information. Read the Instruction Manual carefully and understand all precautions and remarks before using the products.

Specifications

				AC200 V
Motor model*1			IP67	MGMF292L1□□
		Multi	function type	MFDLTB3SF
Applicable	Model No	el RS485 communication type *2		MFDLNB3SG
driver		Basic	c type *2	MFDLNB3SE
	Fram	e sym	bol	F-frame
Power supply	capacit	у	(kVA)	5.0
Rated output			(W	2900
Rated torque			(N·m	18.5
Continuous sta	all torqu	ie	(N·m)	18.5
Momentary Ma	ax. peal	k torqı	ue (N·m)	45.2
Rated current			(A(rms)	19.3
Max. current			(A(o-p))	67
Regenerative	brake		Without option	No limit Note)2
frequency (time	es/min) N	ote)1	DV0P4285×2	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	46.9
of rotor (×10 ⁻⁴	kg·m²)		With brake	52.3
Recommended moment of inertia ratio of the load and the rotor Note)3				10 times or less
Rotary encode	r speci	ficatio	ns *3	23-bit Absolute
	Re	solutio	on per single turn	8388608

 Brake specifications (For details, refer to P.305) (This brake will be released when it is energized.) Do not use this for braking the motor in motion.

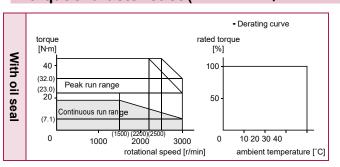
Static friction torque (N·m)	25.0 or more
Engaging time (ms)	80 or less
Releasing time (ms) Note)4	25 or less
Exciting current (DC) (A)	1.29
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

• Permissible load (For details, refer to P.304)

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)4, refer to P.303.
- Dimensions of Driver, refer to P.59.
- *1 $\square\square$ in the motor part number represents the motor specifications.
- *2 Basic type and RS485 communication type are "Position control type".
- Detail of model designation, refer to P.22.
- *3 When using a rotary encoder as an incremental system (not using multi-turn data), do not connect a battery for absolute encoder.

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



Dimensions

	Motor specifications	Key way shaft/ Round shaft						
		without brake			with brake			
		without oil seal	with oil seal	with protective lip/ with oil seal	without oil seal	with oil seal	with protective lip/ with oil seal	
	Encoder connector Large size (JL10) type	_	P.199 P.199		_	P.199		
	Encoder connector Small size (JN2) type	_			_	P.2	200	

A6B

Series

Specifications

				AC200 V
Motor model*1			IP67	MGMF442L1
		Multi	function type	MFDLTB3SF
Applicable	Model No	RS48	5 communication type *	MFDLNB3SG
driver	140.	Basi	c type *2	MFDLNB3SE
	Fram	e sym	bol	F-frame
Power supply	capacit	у	(kVA)	7.0
Rated output			(W)	4400
Rated torque			(N·m)	28.0
Continuous sta	all torqu	ie	(N·m)	28.0
Momentary Ma	ax. peal	k torqı	ue (N·m)	70.0
Rated current			(A(rms))	27.2
Max. current			(A(o-p))	96
Regenerative I	orake Witho		Without option	No limit Note)2
frequency (time	es/min) N	ote)1	DV0P4285×2	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	58.2
of rotor (×10 ⁻⁴	kg·m²)		With brake	63.0
Recommender ratio of the loa				10 times or less
Rotary encode	r speci	ficatio	ns *3	23-bit Absolute
	Re	solutio	on per single turn	8388608

• Brake specifications (For details, refer to P.305) (This brake will be released when it is energized. Do not use this for braking the motor in motion.

Static friction torque (N·m)	44.1 or more
Engaging time (ms)	150 or less
Releasing time (ms) Note)4	30 or less
Exciting current (DC) (A)	1.29
Releasing voltage (DC) (V)	2 or more
Exciting voltage (DC) (V)	24±2.4

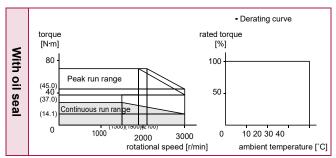
• Permissible load (For details, refer to P.304)

	r crimissible load (i or detaile, refer to 1 .00 i)					
	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)	1470			
		Thrust load A, B-direction (N)	490			

- For details of Note)1 to Note)4, refer to P.303.
- Dimensions of Driver, refer to P.59.
- *1 □□ in the motor part number represents the motor specifications.
- *2 Basic type and RS485 communication type are "Position control type".
- Detail of model designation, refer to P.22.
- *3 When using a rotary encoder as an incremental system (not using multi-turn data), do not connect a battery for absolute encoder.

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



Dimensions

Motor specifications	Key way shaft/ Round shaft						
	without brake			with brake			
	without oil seal	with oil seal	with protective lip/ with oil seal	without oil seal	with oil seal	with protective lip/ with oil seal	
Encoder connector Large size (JL10) type	_	P.200		_	P.200		
Encoder connector Small size (JN2) type	_	P.201		_	P.201		

<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.

[Middle inertia Low speed/High torque type 200 V MGMF 5.5 kW

Motor Specifications A6 Series

Specifications

				AC200 V		
Motor model*1			IP67	MGMF552L1		
			function type	MGDLTC3SF		
Applicable	INO.	RS485 communication type *2		_		
driver		Basic	c type *2	_		
	Fram	e sym	bol	G-frame		
Power supply	capacit	8.5				
Rated output			(W)	5500		
Rated torque			(N·m)	35.0		
Continuous sta	all torqu	е	(N·m)	35.0		
Momentary Ma	ax. peal	c torqu	ue (N·m)	102		
Rated current Max. current			(A(rms))	39.8		
			(A(o-p))	164		
Regenerative I	brake	Without option		No limit Note)2		
frequency (times/min) Note)1		DV0P4285×3	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	83.0		
of rotor (×10 ⁻⁴ kg·m ²)		With brake	88.0			
Recommender ratio of the loa		10 times or less				
Rotary encode	r speci	ficatio	ns *3	23-bit Absolute		
	Re	solutio	on per single turn	8388608		

• Brake specifications (For details, refer to P.305) (This brake will be released when it is energized.) Do not use this for braking the motor in motion.

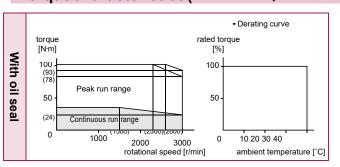
Static friction torque (N·m)	63.0 or more		
Engaging time (ms)	200 or less		
Releasing time (ms) Note)4	80 or less		
Exciting current (DC) (A)	1.29		
Releasing voltage (DC) (V)	2 or more		
Exciting voltage (DC) (V)	15 or less		

• Permissible load (For details, refer to P.304)

. .	Radial load P-direction (N)	2058
During assembly	Thrust load A-direction (N)	980
documbry	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)4, refer to P.303.
- Dimensions of Driver, refer to P.60.
- *1 $\square\square$ in the motor part number represents the motor specifications.
- *2 Basic type and RS485 communication type are "Position control type".
- Detail of model designation, refer to P.22.
- *3 When using a rotary encoder as an incremental system (not using multi-turn data), do not connect a battery for absolute encoder.

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



Dimensions

	Motor specifications	Round shaft/ Key way, center tap shaft						
		without brake			with brake			
		without oil seal	with oil seal	with protective lip/ with oil seal	without oil seal	with oil seal	with protective lip/ with oil seal	
	Encoder connector Large size (JL10) type	_	P.201	_	_	P.202	_	
	Encoder connector Small size (JN2) type	_	P.202	_	_	P.202	_	