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Single Phase Induction Motor / Lead Wire Type

單相感應馬達

단상 인닥션 모타

A

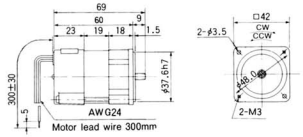
Motor

Scale 1/4 Unit mm

42 mmSQ, 3W/1W

M4IA3G2L 2P 3W 100V

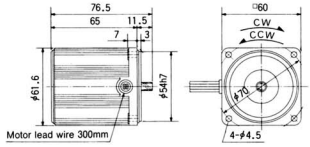
M4IA1G4L 4P 3W 100V



Weight 0.3kg
helical gear
module 0.4
number of teeth 10

60 mmSQ, 3W

M6IA3G4L 4P 3W 100V

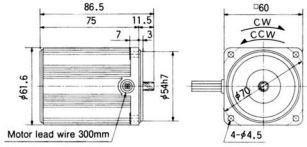


Weight 0.56kg
helical gear
module 0.5
number of teeth 10

60 mmSQ, 6W

M6IA6G4L 4P 6W 100V **M6IA6G4Q** 4P 6W 110V

M6IA6G4Y 4P 6W 200V **M6IA6G4W** 4P 6W 220V

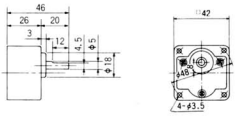


Weight 0.67kg
helical gear
module 0.5
number of teeth 10

Gear Head

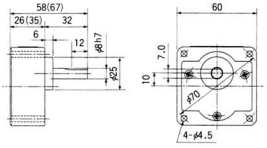
Scale 1/4 Unit mm

M4GA□F (metal bearing type) weight 0.2kg



M6GA□M (metal bearing type) weight 0.34kg

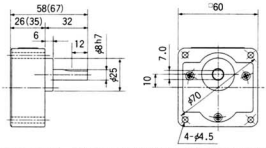
M6GA□B (ball bearing type)



Note : The value in "( )" is for gear ratio of 1/20 or larger.

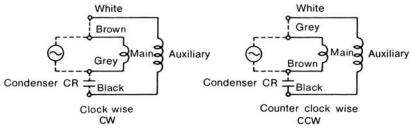
M6GA□M (metal bearing type) weight 0.34kg

M6GA□B (ball bearing type)



Note : The value in "( )" is for gear ratio of 1/20 or larger.

Connecting Diagram



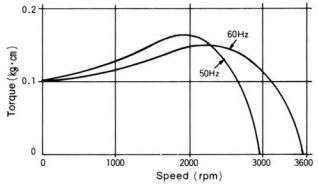
■Specifications

Size mmsq.	Type	poles	Output (W)	Voltage (V)	Frequency (Hz)	Duty	Rated load				Starting Current (A)	Starting Torque (kg·cm)	Condensor
							Input (W)	Current (A)	Speed (rpm)	Torque (kg·cm)			Capacitor μF(V)
42	M4IA3G2L	4	3	100	50	CONT.	9	0.09	2625	0.111	0.14	0.10	1.5(200V)
					60		9	0.09	3250	0.090	0.14	0.10	

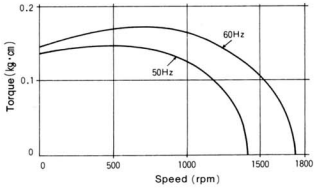
Size mmsq.	Type	poles	Output (W)	Voltage (V)	Frequency (Hz)	Duty	Rated load				Starting Current (A)	Starting Torque (kg·cm)	Capacitor μF(V)	Applied gearhead type		
							Input (W)	Current (A)	Speed (rpm)	Torque (kg·cm)				Metal	Ball	Decimal
42	M4IA1G4L	4	1	100	50	CONT.	10	0.10	1175	0.085	0.11	0.14	1.3(200V)	M4GA□F	—	—
					60		10	0.10	1225	0.085	0.11	0.15				
60	M6IA3G4L	4	3	100	50	CONT.	15	0.15	1225	0.23	0.19	0.28	2(200V)	M6GA□M	M6GA□B	M6IA10XM
					60		16	0.16	1525	0.19	0.20	0.28				
60	M6IA3G4L	4	6	100	50	CONT.	21	0.22	1200	0.48	0.29	0.41	2.5(200V)	M6GA□M	M6GA□B	M6GA10XM
					60		20	0.20	1550	0.37	0.29	0.41				
60	M6IA6G4Y	4	6	200	50	CONT.	21	0.11	1200	0.48	0.15	0.41	0.7(400V)			
					60		20	0.10	1550	0.37	0.15	0.41				

Speed-Torque Curve

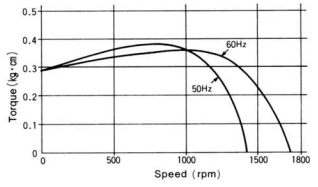
M4IA3G2L



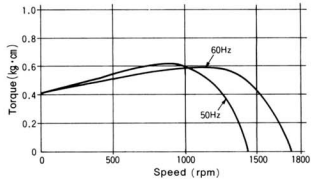
M4IA1G4L



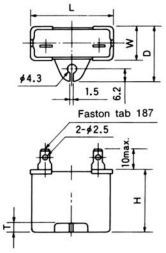
M6IA3G4L



M6IA6G4L



Capacitor



■Dimensions of Capacitor (mm)

Motor Type		Capacitor Type	L	W	D	H	T
M4IA3G2L	100V	MZAX037	39.5	16	26.5	30.5	4
M4IA1G4L	100V	MZAX038	39.5	16	26.5	30.5	4
M6IA3G4L	100V	MZAX038	39.5	16	26.5	30.5	4
M6IA6G4L	100V	MZAX039	39.5	16	26.5	30.5	4
M6IA6G4Y	200V	MZAX057	39.5	16	26.5	30.5	4

■Geared motor maximum permissble torque table [kg·cm]

Note : rpm figures are based on synchronous speed. The actual output rpm, under rated torque conditions, is about 2～20% less than synchronous speed. A grey background indicates that the output shaft of the geared motor rotates in the same direction as the output shaft of the motor. A white background indicates rotation in the opposite direction.

■齒輪馬達最大承受扭力對照表

rpm表列數字乃根據馬達同步運轉之轉速，但在額定扭力負載情況下實際輸出轉速爲同步運轉轉速的80～98%。灰色欄乃輸出軸運轉方向與馬達相同時的數據資料。白色欄乃輸出軸運轉方向與馬達相反時的數據資料。

■GEAR HEAD를 直結했을 때의 許容軸토르크

★回転数는 同期速度의 中面기어헤드에 値(값)를 表示하고 있습니다. 一般 回転数는負荷의 크기에 따라 表示値보다 2%～20% 적은(値) 를 표시합니다.
★回転方向은 ▭ 이 모타와 同方向 他는 逆方向입니다.

Speed (rpm)	1000	600	400	240	200	120	100	60	40	30	20
Gear redution 50Hz	3	5	7.5	12.5	15	25	30	50	75	100	150
ratio 60Hz	3.6	6	9	15	18	30	36	60	90	120	180
Maximum permissible torque (kg·cm)	0.29	0.48	0.72	1.0	1.3	1.9	2.3	3.9	5.0	5.0	5.0

With decimal gearhead

Speed (rpm)	500	300	200	180	150	120	100	90	75	60	50	30	20	15	10	9	7.5	6	5	3	2	1.5	1
Gear redution 50Hz	3	5	7.5	—	10	12.5	15	—	20	25	30	50	75	100	150	—	200	250	300	500	750	1000	1500
ratio 60Hz	3.6	6	9	10	—	15	18	20	—	30	36	60	90	120	180	200	—	300	360	600	900	1200	1800
Maximum permissible torque (kg·cm)	0.23	0.38	0.57	—	—	0.86	1.0	—	—	1.8	3.1	4.2	5.0	5.0	—	—	—	—	—	—	—	—	—
Maximum permissible torque (kg·cm)	0.49	0.81	1.2	1.3	1.6	2.0	2.4	2.6	3.2	3.9	4.7	7.8	11	15	22	25	25	25	25	25	25	25	25
Maximum permissible torque (kg·cm)	1.0	1.6	2.5	2.7	3.4	4.1	5.0	5.4	6.7	8.1	9.7	16	23	25	25	25	25	25	25	25	25	25	25

Note : The box (□) represents the desired gear reduction ratio, which thereby becomes part of the code for geared motor.

Single Phase Induction Motor / Lead Wire Type

單相感應馬達

단상 인닥션 모타

A

Motor

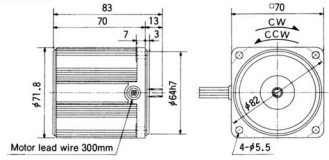
Scale 1/4 Unit mm

70 mmSQ, 10W

M7IA10G4L 4P 10W 100V

M7IA10G4Y 4P 10W 200V

Weight 0.84kg
helical gear
module 0.5
number of teeth 10



70 mmSQ, 15W

M7IA15G4L 4P 15W 100V

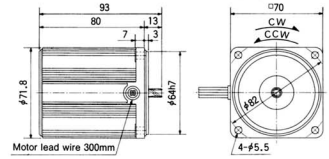
M7IA15G4Y 4P 15W 200V

M7IA15G4Q 4P 10W 110V

M7IA15G4W 4P 10W 220V

M7IA15G4G 4P 15W 230V

Weight 1.1kg
helical gear
module 0.5
number of teeth 10

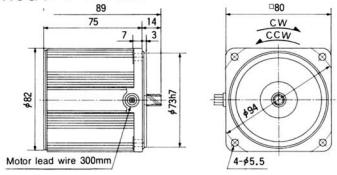


80 mmSQ, 15W

M8IA15G4L 4P 15W 100V

M8IA15G4Y 4P 15W 200V

Weight 1.2kg
helical gear
module 0.6
number of teeth 11

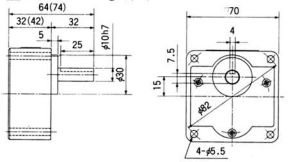


Gear Head

Scale 1/4 Unit mm

M7GA□M (metal bearing type) weight 0.34kg

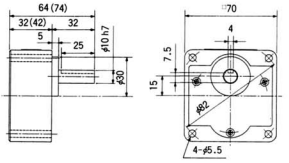
M7GA□B (ball bearing type)



Note : The value in "( )" is for gear ratio of 1/20 or larger.

M7GA□M (metal bearing type) weight 0.54kg

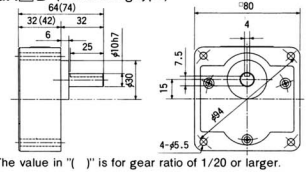
M7GA□B (ball bearing type)



Note : The value in "( )" is for gear ratio of 1/20 or larger.

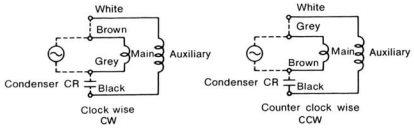
M8GA□M (metal bearing type) weight 0.54kg

M8GA□B (ball bearing type)



Note : The value in "( )" is for gear ratio of 1/20 or larger.

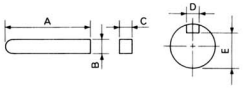
Connecting Diagram



Key and Key Slot

M7GA□M(B)

M8GA□M(B)



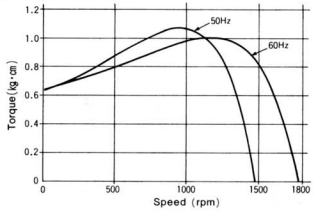
Type	A	B	C	D	E
M7GA□M(B)	2	$4^{0}_{-0.030}$	$4^{0}_{-0.030}$	$4^{+0.060}_{+0.010}$	$7.5^{0}_{-0.15}$
M8GA□M(B)	25	$4^{0}_{-0.030}$	$4^{0}_{-0.030}$	$4^{+0.060}_{+0.010}$	$7.5^{0}_{-0.15}$

■Specifications

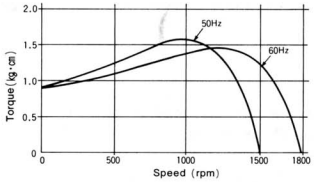
Size mmsq.	Type	poles	Output (W)	Voltage (V)	Frequency (Hz)	Duty	Rated load				Starting	Starting	Capacitor	Applied gearhead type		
							Input (W)	Current (A)	Speed (rpm)	Torque (kg·cm)	Current (A)	Torque (kg·cm)	Capacitor μF(V)	Metal	Ball	Decimal
70	M7IA10G4L	4	10	100	50	CONT.	26	0.27	1250	0.76	0.42	0.62	3(200V)	M7GA□M	M7GA□B	M7GA10XM
					60		26	0.26	1575	0.60	0.41	0.62				
70	M7IA10G4Y	4	10	200	50	CONT.	26	0.14	1250	0.76	0.21	0.62	1(400V)			
					60		26	0.13	1575	0.60	0.21	0.62				
70	M7IA15G4L	4	15	100	50	CONT.	33	0.36	1300	1.1	0.63	0.90	4(200V)	M7GA□M	M7GA□B	M7GA10XM
					60		33	0.34	1600	0.90	0.59	0.90				
70	M7IA15G4Y	4	15	200	50	CONT.	33	0.18	1300	1.1	0.31	0.90	1(400V)			
					60		33	0.17	1600	0.90	0.30	0.90				
80	M8IA15G4L	4	15	100	50	CONT.	35	0.36	1275	1.1	0.61	0.95	4(200V)	M8GA□M	M8GA□B	M8GA10XM
					60		37	0.27	1550	0.90	0.59	0.95				
80	M8IA15G4Y	4	15	200	50	CONT.	35	0.18	1275	1.1	0.31	0.95	1(400V)			
					60		37	0.19	1550	0.90	0.30	0.95				

Speed-Torque Curve

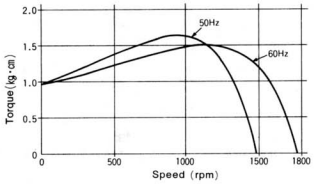
M7IA10G4L



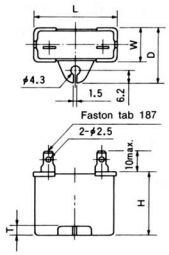
M7IA15G4L



M8IA15G4L



Capacitor



■Dimensions of Capacitor (mm)

Motor Type		Capacitor Type	L	W	D	H	T
M7IA10G4L	100V	MZAX040	39.5	16	26.5	30.5	4
M7IA10G4Y	200V	MZAX060	39.5	16.2	27	27	4
M7IA15G4L	100V	MZAX042	39.5	16	26.5	30.5	4
M7IA15G4Y	200V	MZAX060	39.5	16.2	27	27	4
M8IA15G4L	100V	MZAX042	39.5	16	26.5	30.5	4
M8IA15G4Y	200V	MZAX060	39.5	16.2	27	27	4

■Geared motor maximum permissble torque table [kg·cm]

Note : rpm figures are based on synchronous speed. The actual output rpm, under rated torque conditions, is about 2～20% less than synchronous speed. A grey background indicates that the output shaft of the geared motor rotates in the same direction as the output shaft of the motor. A white background indicates rotation in the opposite direction.

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rpm表列數字乃根據馬達同步運轉之轉速，但在額定扭力負載情況下實際輸出轉速爲同步運轉轉速的80－98%。灰色欄乃輸出軸運轉方向與馬達相同時的數據資料。白色欄乃輸出軸運轉方向與馬達相反時的數據資料。

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★回転方向은 ☐ 이 모터와 同方向 他는 逆方向입니다.

	Speed (rpm)	500	300	200	180	150	120	100	90	75	60	50	30	20	15	10	With decimal gearhead 9	7.5	6	5	3	2	1.5	1
	Gear redution 50Hz	3	6	7.5	—	10	12.5	15	—	20	25	30	50	75	100	150	—	200	250	300	500	750	1000	1500
	ratio 60Hz	3.6	6	9	10	—	15	18	20	—	30	36	60	90	120	180	200	—	300	360	600	900	1200	1800
	Maximum permissible torque (kg·cm)	1.6	2.6	3.9	4.5	5.2	6.5	7.9	8.7	10	13	15	26	37	49	50	50	50	50	50	50	50	50	50
	Maximum permissible torque (kg·cm)	2.4	4.0	6.0	6.7	8.2	10	12	13	16	19	23	39	50	50	50	50	50	50	50	50	50	50	50
	Maximum permissible torque (kg·cm)	2.4	6.0	6.7	6.7	8.2	10	12	13	16	19	23	39	56	75	80	80	80	80	80	80	80	80	80

Note : The box (☐) represents the desired gear reduction ratio, which thereby becomes part of the code for geared motor.

Single Phase Induction Motor / Lead Wire Type

單相感應馬達

단상 인닥션 모타

A

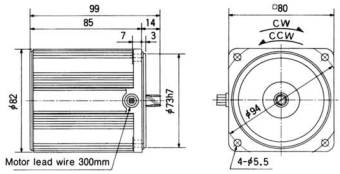
Motor

Scale 1/4 Unit mm

80 mmSQ, 25W

M8IA25G4L 4P 25W 100V
M8IA25G4Y 4P 25W 200V
M8IA25G4Q 4P 25W 110V
M8IA25G4W 4P 25W 220V
M8IA25G4G 4P 25W 230V

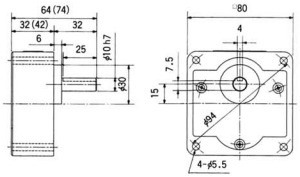
Weight 1.5kg
helical gear
module 0.6
number of teeth 11



Gear Head

Scale 1/4 Unit mm

M8GA□M (metal bearing type) weight 0.68kg
M8GA□B (ball bearing type)

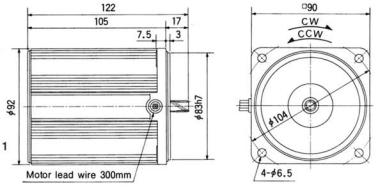


Note : The value in "( )" is for gear ratio of 1/20 or larger.

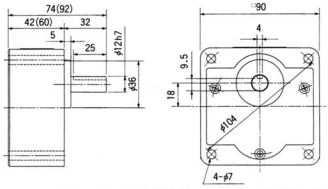
90 mmSQ, 40W

M9IA40G4L 4P 40W 100V
M9IA40G4Y 4P 40W 200V
M9IA40G4Q 4P 40W 110V
M9IA40G4W 4P 40W 220V
M9IA40G4G 4P 40W 230V

Weight 2.4kg
helical gear
module 0.6
number of teeth 11

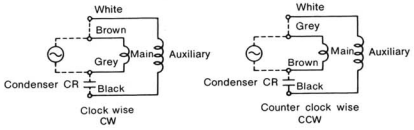


M9GA□M (metal bearing type) weight 1.2kg
M9GA□B (ball bearing type)



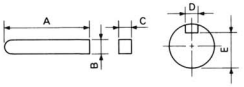
Note : The value in "( )" is for gear ratio of 1/20 or larger.

Connecting Diagram



Key and Key Slot

M8GA□M(B)
M9GA□M(B)



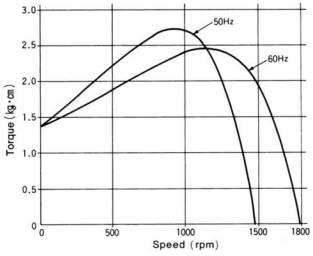
Type	A	B	C	D	E
M8GA□M(B)	25	$4^{0}_{-0.030}$	$4^{0}_{-0.030}$	$4^{+0.060}_{+0.010}$	$7.5^{0}_{-0.15}$
M9GA□M(B)	25	$4^{0}_{-0.030}$	$4^{0}_{-0.030}$	$4^{+0.060}_{+0.010}$	$9.5^{0}_{-0.15}$

■Specifications

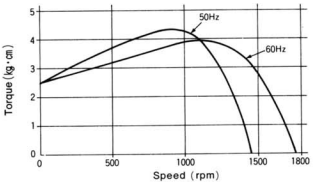
Size mmsq.	Type	poles	Output (W)	Voltage (V)	Frequency (Hz)	Duty	Rated load Input (W)	Current (A)	Speed (rpm)	Torque (kg·cm)	Starting Current (A)	Starting Torque (kg·cm)	Capacitor Capacitor μF(V)	Applied gearhead type Metal	Ball	Decimal
80	M8IA25G4L	4	25	100	50	CONT.	52	0.57	1325	1.8	1.2	1.4	6(200V)	M8GA□M	M8GA□B	M8GA10XM
					60		48	0.48	1625	1.5	1.1	1.4				
80	M8IA25G4Y	4	25	200	50	CONT.	52	0.28	1325	1.8	0.6	1.4	1.5(400V)			
					60		48	0.24	1625	1.5	0.55	1.4				
90	M9IA40G4L	4	40	100	50	CONT.	79	0.87	1250	3.1	1.6	2.4	10(200V)	M9GA□M	M9GA□B	M9GA10XM
					60		74	0.74	1575	2.5	1.5	2.4				
90	M9IA40G4Y	4	40	200	50	CONT.	79	0.44	1250	3.1	0.80	2.4	2.5(400V)			
					60		74	0.37	1575	2.5	0.75	2.4				

Speed-Torque Curve

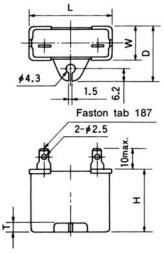
M8IA25G4L



M9IA40G4L



Capacitor



■Dimensions of Capacitor (mm)

Motor Type		Capacitor Type	L	W	D	H	T
M8IA25G4L	100V	MZAX045	39.5	17.5	28	30.5	4
M8IA25G4Y	200V	MZAX063	39.5	22	32.5	32.5	4
M9IA40G4L	100V	MZAX049	39.5	26.7	37	32	4
M9IA40G4Y	200V	MZAX067	49.7	24	34.5	34.5	4

A

■Geared motor maximum permissble torque table [kg·cm]

Note : rpm figures are based on synchronous speed. The actual output rpm, under rated torque conditions, is about 2～20% less than synchronous speed. A grey background indicates that the output shaft of the geared motor rotates in the same direction as the output shaft of the motor. A white background indicates rotation in the opposite direction.

■齒輪馬達最大承受扭力對照表

rpm表列數字乃根據馬達同步運轉之轉速，但在額定扭力負載情況下實際輸出轉速爲同步運轉轉速的80～98%。灰色欄乃輸出軸運轉方向與馬達相同時的數據資料。白色欄乃輸出軸運轉方向與馬達相反時的數據資料。

■GEAR HEAD를 直結했을 때의 許容軸토르크

★回転数는 同期速度의 中面기어헤드에 値(값)를 表示하고 있습니다. 一般 回転数는負荷의 크기에 따라 表示値보다 2%～20% 적은(値) 를 표시합니다.
★回転方向은 ▭ 이 모타와 同方向 他는 逆方向입니다.

	Speed (rpm)	500	300	200	180	150	120	100	90	75	60	50	30	20	15	10	With decimal gearhead 9	7.5	6	5	3	2	1.5	1
	Gear redution ratio 50Hz	3	5	7.5	—	10	12.5	15	—	20	25	30	50	75	100	150	—	200	250	300	500	750	1000	1500
	60Hz	3.6	6	9	10	—	15	18	20	—	30	36	60	90	120	180	200	—	300	360	600	900	1200	1800
	Maximum permissible torque (kg·cm)	4.0	6.7	10	11	13	16	20	21	26	32	39	65	80	80	80	80	80	80	80	80	80	80	80
	Maximum permissible torque (kg·cm)	6.7	11	16	18	23	28	33	36	45	54	65	100	100	100	100	100	100	100	100	100	100	100	100

Note : The box (□) represents the desired gear reduction ratio, which thereby becomes part of the code for geared motor.

Single Phase Induction Motor / Lead Wire Type

單相感應馬達

단상 인닥션 모타

A

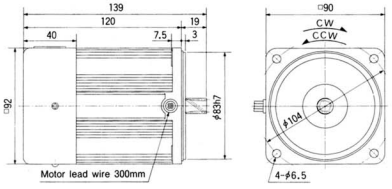
Motor

Scale 1/4 Unit mm

90 mmSQ, 60W

M9IC60G4L 4P 60W 100V
M9IC60G4Y 4P 60W 200V
M9IC60G4Q 4P 60W 110V
M9IC60G4W 4P 60W 220V
M9IC60G4G 4P 60W 230V

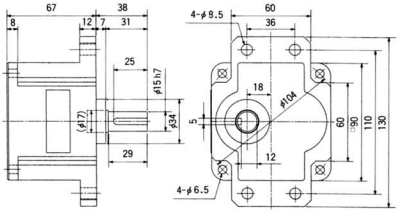
Weight 2.7kg
helical gear
module 0.8
number of teeth 11



Gear Head

Scale 1/4 Unit mm

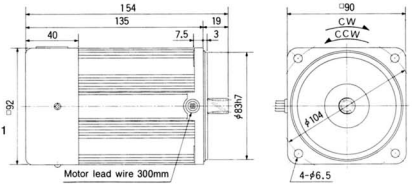
M9GC□B (ball bearing type) 1.5kg



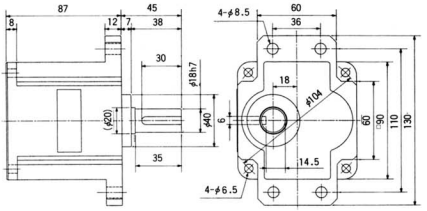
90 mmSQ, 90W

M9IC90G4L 4P 90W 100V
M9IC90G4Y 4P 90W 200V
M9IC90G4Q 4P 90W 110V
M9IC90G4W 4P 90W 220V
M9IC90G4G 4P 90W 230V

Weight 2.9kg
helical gear
module 0.8
number of teeth 11

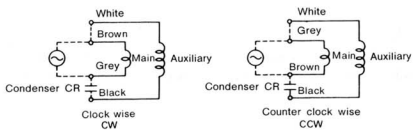


M9GS□B (ball bearing type) 1.9kg



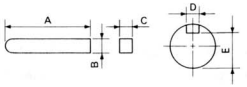
C type 200kg·cm / max. permissible torque
S type 300kg·cm / max. permissible torque

Connecting Diagram



Key and Key Slot

M9GC□B
M9GS□B



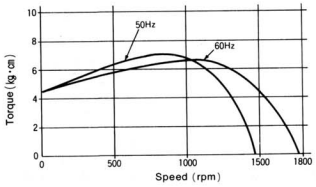
Type	A	B	C	D	E
M9GC□B	25	$5^{\ 0}_{-0.030}$	$5^{\ 0}_{-0.030}$	$5^{+0.050}_{\ 0}$	$12^{\ 0}_{-0.15}$
M9GS□B	30	$6^{\ 0}_{-0.030}$	$6^{\ 0}_{-0.030}$	$6^{+0.050}_{\ 0}$	$14.5^{\ 0}_{-0.15}$

■Specifications

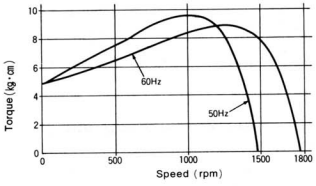
Size mmsq.	Type	poles	Output (W)	Voltage (V)	Frequency (Hz)	Duty	Rated load				Starting Current (A)	Starting Torque (kg·cm)	Capacitor	Applied gearhead type		
							Input (W)	Current (A)	Speed (rpm)	Torque (kg·cm)			Capacitor μF(V)	Metal	Ball	Decimal
90	M9IC60G4L	4	60	100	50	CONT.	114	1.3	1275	4.6	2.2	4.5	15(200V)	—	M9GC□B	M9GC10XB
					60		114	1.20	1575	3.7	2.2	4.5				
90	M9IC60G4Y	4	60	200	50	CONT.	114	0.65	1275	4.6	1.1	4.5	3.8(400V)		M9GS□B	
					60		114	0.60	1575	3.7	1.1	4.5				
90	M9IC90G4L	4	90	100	50	CONT.	154	1.6	1325	6.5	3.4	4.8	25(200V)	—	M9GC□B	M9GC10XB
					60		161	1.7	1625	5.3	3.1	4.8				
90	M9IC90G4Y	4	90	200	50	CONT.	154	0.80	1325	6.5	1.7	4.8	5.8(400V)		M9GS□B	
					60		161	0.85	1625	5.3	1.6	4.8				

Speed-Torque Curve

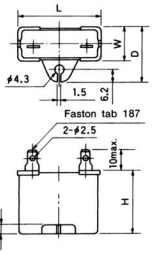
M9IC60G4L



M9IC90G4L



Capacitor



■Dimensions of Capacitor (mm)

Motor Type		Capacitor Type	L	W	D	H	T
M9IC60G4L	100V	MZAX051	39.5	26.7	37	41	4
M9IC60G4Y	200V	MZAX069	50	26.7	37.5	38	4
M9IC90G4L	100V	MZAX053	50.2	31	41	42	5
M9IC90G4Y	200V	MZAX071	50	30.5	41	41.5	4

■Geared motor maximum permissble torque table [kg·cm]

Note : rpm figures are based on synchronous speed. The actual output rpm, under rated torque conditions, is about 2～20% less than synchronous speed. A grey background indicates that the output shaft of the geared motor rotates in the same direction as the output shaft of the motor. A white background indicates rotation in the opposite direction.

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rpm表列數字乃根據馬達同步運轉之轉速，但在額定扭力負載情況下實際輸出轉速爲同步運轉轉速的80～98%。灰色欄乃輸出軸運轉方向與馬達相同時的數據資料。白色欄乃輸出軸運轉方向與馬達相反時的數據資料。

■GEAR HEAD를 直結했을 때의 許容軸토르크

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★回転方向은 □ 이 모타와 同方向 他는 逆方向입니다.

																			With decimal gearhead								
Speed (rpm)		500	300	200	180	150	120	100	90	75	60	50	30	20	15	10	9	7.5	6	5	3	2	1.5	1	0.9	0.75
Gear redution ratio	50Hz	3	5	7.5	—	10	12.5	15	—	20	25	30	50	75	100	150	—	200	250	300	500	750	1000	1500	—	2000
	60Hz	3.6	6	9	10	—	15	18	20	—	30	36	60	90	120	180	200	—	300	360	600	900	1200	1800	2000	—
Maximum permissible torque (kg·cm)		10	16	24	27	32	40	48	54	64	77	93	155	200	200	200	200	200	200	200	200	200	200	200	200	200
		—	—	—	—	—	—	—	—	—	—	—	155	226	300	300	300	300	—	—	300	300	300	300	300	300
Maximum permissible torque (kg·cm)		14	23	35	38	46	58	69	77	92	111	133	216	200	200	200	200	200	200	200	200	200	200	200	200	200
		—	—	—	—	—	—	—	—	—	—	—	216	300	300	300	300	300	—	—	300	300	300	300	300	300

Note : The box (□) represents the desired gear reduction ratio, which thereby becomes part of the code for geared motor.

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