

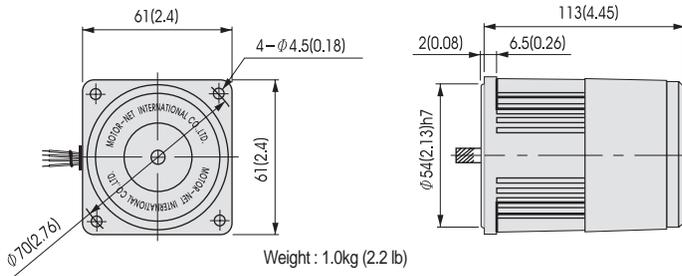
M SERIES MOTORS 6W (1/124 HP)
BRAKE MOTOR (Single-Phase) LEAD WIRE TYPE

Frame size 61 mm sq. (2.4 in. sq.)

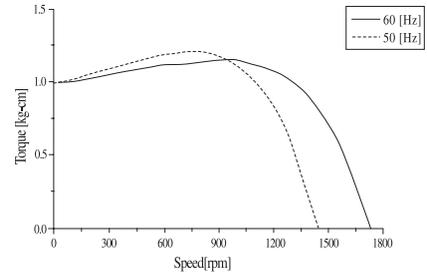
Unit : mm(inch)

DIMENSIONS SPEED-TORQUE CURVE

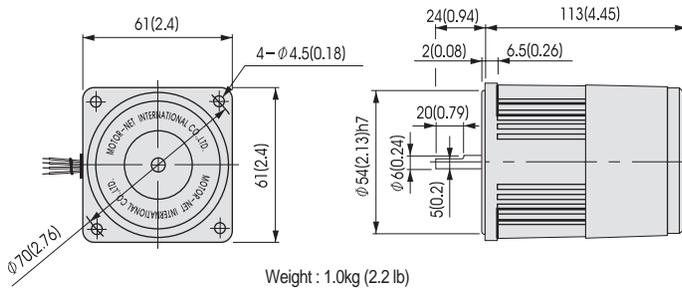
M6RN6G□4B



Single phase M6RN6□□4B

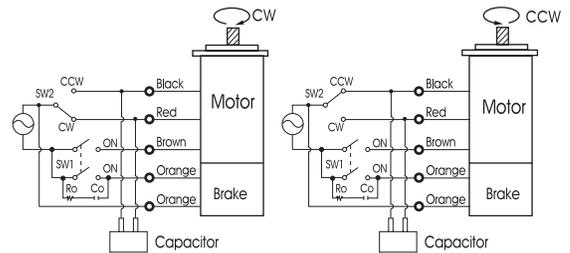


M6RN6S□4B



CONNECTION DIAGRAMS

Standard or with T.P



The direction of rotation is seen from the end of motor shaft.

SPECIFICATIONS

30 MIN. DUTY, INSULATION CLASS A or E, 4POLES

Model	Output		Voltage (V)	Frequency (Hz)	Rated					Starting Torque			Magnetic Brake			Capacitor (μF)		
	(HP)	(W)			Input (W)	Current (A)	Torque		Speed (rpm)	(kg-cm)	(N-m)	(oz-in)	Torque				Current (A)	
			(kg-cm)	(N-m)			(oz-in)	(kg-cm)					(N-m)	(oz-in)				
M6RN6GL4B	1/124	6	1 φ 100	50	25	0.22	0.49	0.048	6.80	1200	0.52	0.051	7.22	2	0.196	27.77	0.07	3.5
60				25	0.22	0.38	0.038	5.28	1550	0.52	0.051	7.22	2	0.196	27.77	0.07		
M6RN6GQ4B	1/124	6	1 φ 200	50	25	0.12	0.49	0.048	6.80	1200	0.52	0.051	7.22	2	0.196	27.77	0.07	1
60				25	0.12	0.38	0.038	5.28	1550	0.52	0.051	7.22	2	0.196	27.77	0.07		
M6RN6GH4B	1/124	6	1 φ 220	60	30	0.13	0.38	0.038	5.28	1550	0.55	0.054	7.64	2	0.196	27.77	0.07	0.8
M6RN6GU4B	1/124	6	1 φ 115	60	25	0.25	0.38	0.038	5.28	1550	0.5	0.049	6.94	2	0.196	27.77	0.07	3
M6RN6GC4B	1/124	6	1 φ 220~240	50	30	0.14	0.47	0.046	6.53	1250	0.64	0.063	8.89	2	0.196	27.77	0.07	1

* For motor with straight shaft, please write S in place of G in model.
* Model in green screen represents the motors with IMPEDANCE PROTECTED according to UL regulation.
* Model in sky blue screen represents the motors with IMPEDANCE PROTECTED according to CE regulation.





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M SERIES GEARHEADS (G TYPE)

METAL TYPE & BALL BEARING TYPE

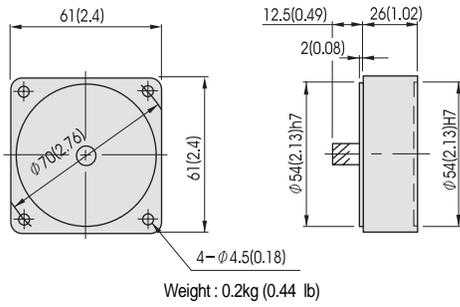
Frame size 61 mm sq. (2.4 in. sq.)

Unit : mm(inch)

DIMENSIONS

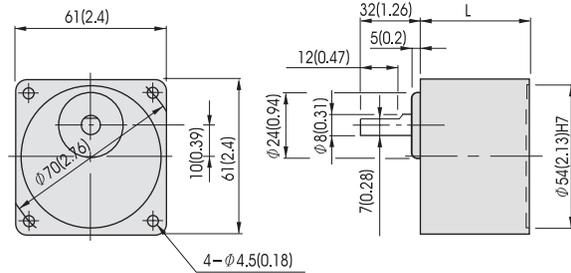
DECIMAL GEARHEAD

M6G10D



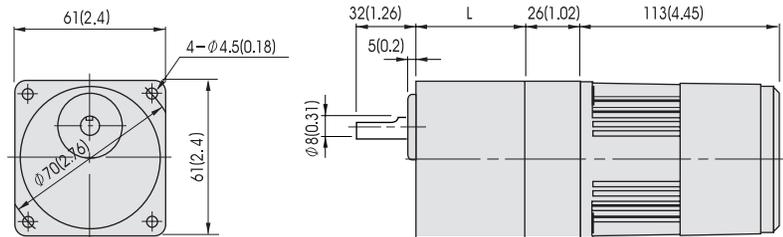
GEARHEAD

M6G□C(B)



Gear Ratio	L		Weight		Bolt
	mm	in	kg	lb	
1/3~1/18	30	1.18	0.3	0.66	M4 × L50
1/25~1/180	40	1.57	0.4	0.88	M4 × L60

M6G□C(B)+M6G10D+M6RN6G□4B



RATED TORQUE OF GEAR HEAD

Model	Speed(rpm)		500	300	200	120	100	60	50	30	20	15	10	6	5	3	2	1
	Ratio	50Hz	3	5	7.5	12.5	15	25	30	50	75	100	150	250	300	500	750	1500
		60Hz	3.6	6	9	15	18	30	36	60	90	120	180	300	360	600	900	1800
M6G□C, M6G□B M6G10D(DECIMAL)	kg-cm	1.2	2.0	3.0	5.0	6.0	8.9	10.7	16.2	24.3	30	30	30	30	30	30	30	30
	N-m	0.12	0.19	0.29	0.49	0.58	0.88	1.05	1.58	2.38	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94
	oz-in	17	28	41	69	83	124	149	225	337	417	417	417	417	417	417	417	417

With Decimal Gearhead

- * The normal torque is that the motor and gearhead are directly coupled.
- * Insert the denominator of reduction ratio in □ of gearhead model name.
- * Actual rotation speed is 2~15% less than synchronous speed.
- * ■ Color indicates that the rotation of gearhead shaft is in opposite direction as output shaft of motor.





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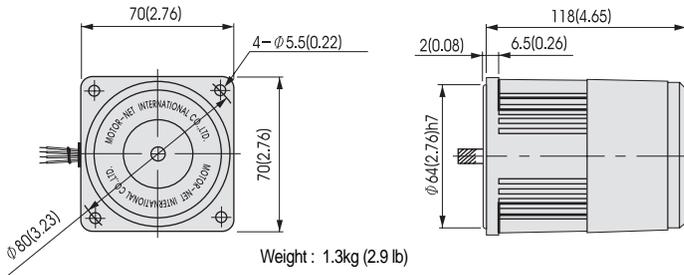
M SERIES MOTORS 15W (1/50 HP)
BRAKE MOTOR (Single-Phase) LEAD WIRE TYPE

Frame size 70 mm sq. (2.76 in. sq.)

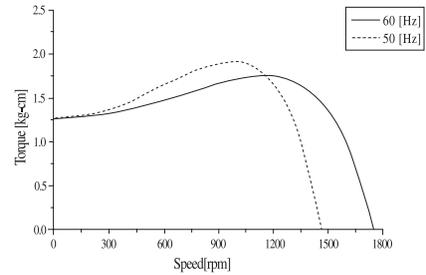
Unit : mm(inch)

DIMENSIONS SPEED-TORQUE CURVE

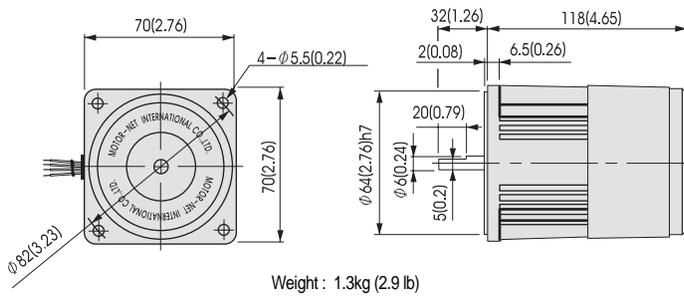
M7RN15G□4B



Single phase M7RN15□□4B



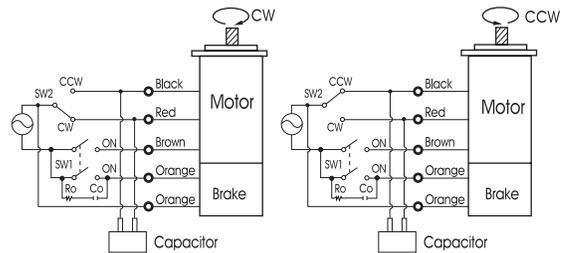
M7RN15S□4B



CONNECTION DIAGRAMS



Standard or with T.P



The direction of rotation is seen from the end of motor shaft.

SPECIFICATIONS

30 MIN. DUTY, INSULATION CLASS A or E, 4POLES

Model	Output		Voltage (V)	Frequency (Hz)	Rated					Starting Torque			Magnetic Brake			Capacitor (μF)	
	(HP)	(W)			Input (W)	Current (A)	Torque			Speed (rpm)	Torque			Current (A)			
							(kg-cm)	(N-m)	(oz-in)		(kg-cm)	(N-m)	(oz-in)				
M7RN15GL4B	1/50	15	1φ 100	50	0.46	1.22	0.120	16.94	1200	1	0.098	13.89	2	0.196	27.77	0.07	7
M7RN15GQ4B	1/50	15	1φ 200	50	0.23	1.22	0.120	16.94	1200	1.1	0.108	15.28	2	0.196	27.77	0.07	2
M7RN15GH4B	1/50	15	1φ 220	60	0.23	0.95	0.093	13.19	1550	1.15	0.113	15.97	2	0.196	27.77	0.07	1.5
M7RN15GU4B	1/50	15	1φ 115	60	0.50	0.95	0.093	13.19	1550	1.15	0.113	15.97	2	0.196	27.77	0.07	6
M7RN15GC4B	1/50	15	1φ 220~240	50	0.24	1.17	0.115	16.25	1250	1.2	0.118	16.66	2	0.196	27.77	0.07	1.8

* For motor with straight shaft, please write S in place of G in model.
* Model in green screen represents the motors with THERMALLY PROTECTED according to UL regulation.
* Model in sky blue screen represents the motors with THERMALLY PROTECTED according to CE regulation.





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M SERIES GEARHEADS (G TYPE)

METAL TYPE & BALL BEARING TYPE

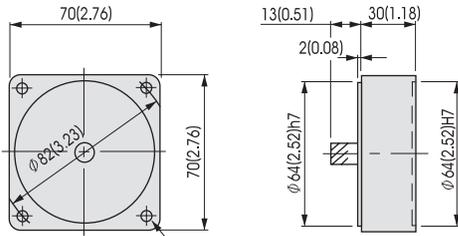
Frame size 70 mm sq. (2.76 in. sq.)

Unit : mm(inch)

DIMENSIONS

DECIMAL GEARHEAD

M7G10D

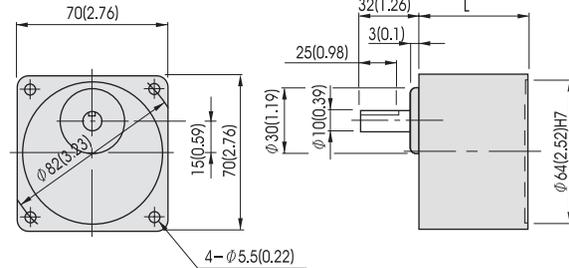


Weight : 0.3kg (0.66 lb)

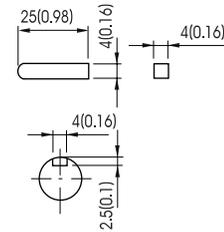


GEARHEAD

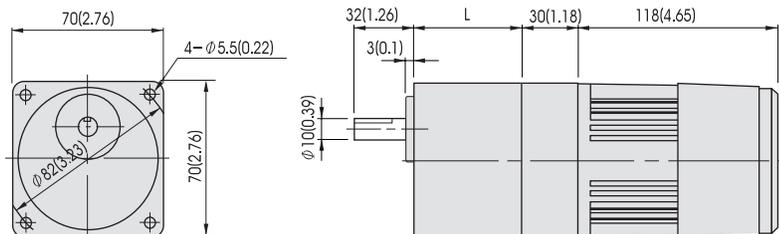
M7G□C(B)



Gear Ratio	L		Weight		Bolt
	mm	in	kg	lb	
1/3~1/18	32	1.26	0.45	0.99	M5 × L50
1/25~1/180	42	1.65	0.55	1.21	M5 × L60



M7G□C(B)+M7G10D+M7RN15G□4B



RATED TORQUE OF GEAR HEAD

Model	Speed(rpm)		500	300	200	120	100	60	50	30	20	15	10	6	5	3	2	1
	Ratio	50Hz	3	5	7.5	12.5	15	25	30	50	75	100	150	250	300	500	750	1500
		60Hz	3.6	6	9	15	18	30	36	60	90	120	180	300	360	600	900	1800
M7G□C, M7G□B M7G10D(DECIMAL)	kg-cm	3.0	4.9	7.4	12.4	14.8	22.3	26.7	40.3	50	50	50	50	50	50	50	50	50
	N-m	0.29	0.48	0.73	1.21	1.45	2.18	2.62	3.95	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90
	oz-in	41	69	103	172	206	309	371	559	694	694	694	694	694	694	694	694	694

With Decimal Gearhead

- * The normal torque is that the motor and gearhead are directly coupled.
- * Insert the denominator of reduction ratio in □ of gearhead model name.
- * Actual rotation speed is 2~15% less than synchronous speed.
- * ■ Color indicates that the rotation of gearhead shaft is in opposite direction as output shaft of motor.



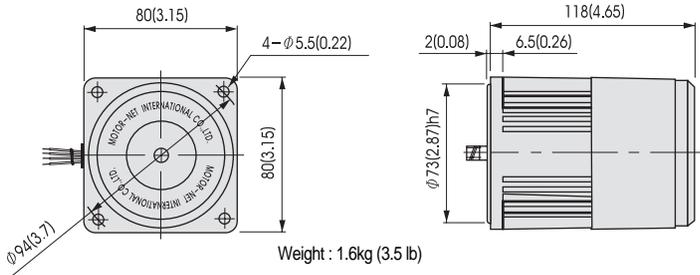
M SERIES MOTORS **20W (1/37.5 HP)**
BRAKE MOTOR (Single-Phase) **LEAD WIRE TYPE**

Frame size 80 mm sq. (3.15 in. sq.)

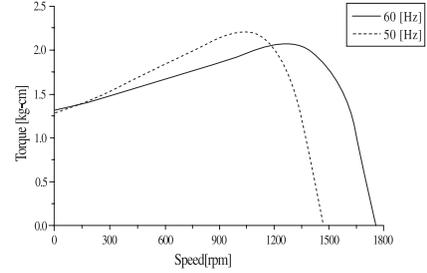
Unit : mm(inch)

DIMENSIONS **SPEED-TORQUE CURVE**

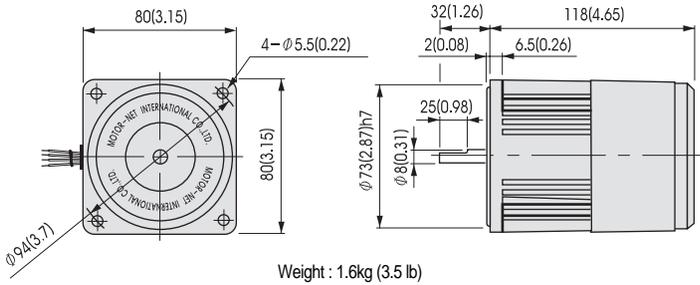
M8RN20G□4B



Single phase M8RN20□□4

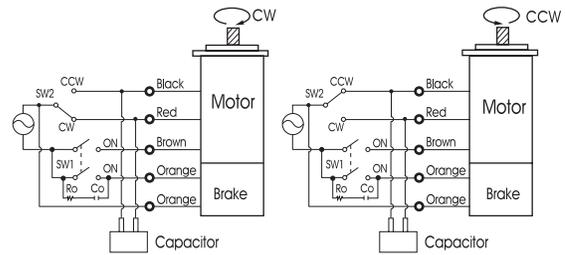


M8RN20S□4B



CONNECTION DIAGRAMS

Standard or with T.P



The direction of rotation is seen from the end of motor shaft.

SPECIFICATIONS

30 MIN. DUTY, INSULATION CLASS A or E, 4POLES

Model	Output		Voltage (V)	Frequency (Hz)	Rated					Starting Torque			Magnetic Brake			Capacitor (μF)		
	(HP)	(W)			Input (W)	Current (A)	Torque (kg-cm, N-m, oz-in)		Speed (rpm)	Torque (kg-cm, N-m, oz-in)			Current (A)					
M8RN20GL4B	1/37.5	20	1φ 100	50	60	0.51	1.63	0.160	22.64	1200	1.15	0.113	15.97	4	0.392	55.55	0.09	8
				60	60	0.59	1.27	0.124	17.64	1550	1.15	0.113	15.97	4	0.392	55.55	0.09	
M8RN20GQ4B	1/37.5	20	1φ 200	50	60	0.25	1.63	0.160	22.64	1200	1.15	0.113	15.97	4	0.392	55.55	0.09	2
				60	60	0.29	1.26	0.123	17.50	1550	1.2	0.118	16.66	4	0.392	55.55	0.09	
M8RN20GH4B	1/37.5	20	1φ 220	60	60	0.27	1.26	0.123	17.50	1550	1.2	0.118	16.66	4	0.392	55.55	0.09	1.5
M8RN20GU4B	1/37.5	20	1φ 115	60	60	0.55	1.26	0.123	17.50	1550	1.2	0.118	16.66	4	0.392	55.55	0.09	6
M8RN20GC4B	1/37.5	20	1φ 220~240	50	60	0.25	1.56	0.153	21.66	1250	1.3	0.127	18.05	4	0.392	55.55	0.09	1.8

* For motor with straight shaft, please write S in place of G in model.
* Model in green screen represents the motors with THERMALLY PROTECTED according to UL regulation.
* Model in sky blue screen represents the motors with THERMALLY PROTECTED according to CE regulation.





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M SERIES GEARHEADS (G TYPE)

METAL TYPE & BALL BEARING TYPE

Frame size 80 mm sq. (3.15 in. sq.)

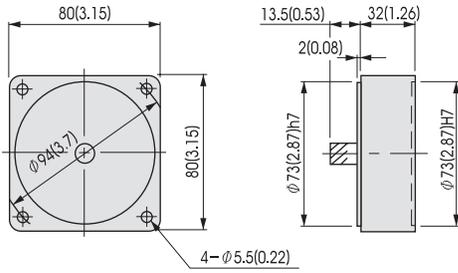
Unit : mm(inch)

DIMENSIONS

DECIMAL GEARHEAD

GEARHEAD

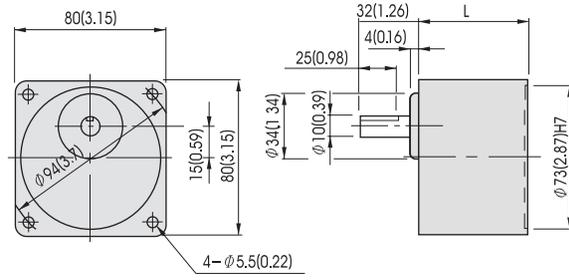
M8G10D



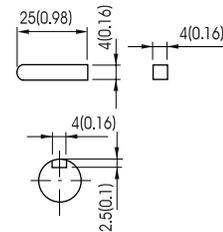
Weight : 0.4kg (0.88 lb)



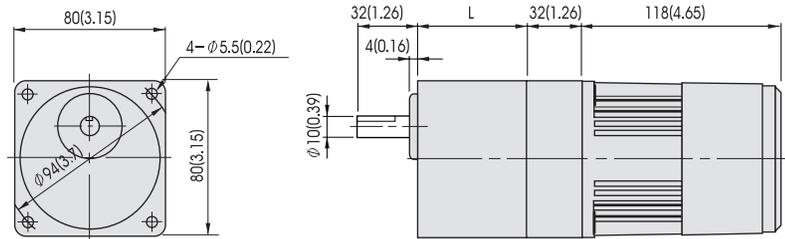
M8G□C(B)



Gear Ratio	L		Weight		Bolt
	mm	in	kg	lb	
1/3~1/18	32	1.26	0.5	1.10	M5 × L50
1/25~1/180	42.5	1.65	0.7	1.54	M5 × L60



M8G□C(B)+M8G10D+M8RN20G□4B



RATED TORQUE OF GEAR HEAD

Model	Speed(rpm)		500	300	200	120	100	60	50	30	20	15	10	6	5	3	2	1
	Ratio	50Hz	3	5	7.5	12.5	15	25	30	50	75	100	150	250	300	500	750	1500
		60Hz	3.6	6	9	15	18	30	36	60	90	120	180	300	360	600	900	1800
M8G□C, M8G□B M8G10D(DECIMAL)	kg-cm	4.0	6.6	9.9	16.5	19.8	29.7	35.7	53.8	80	80	80	80	80	80	80	80	80
	N-m	0.39	0.65	0.97	1.62	1.94	2.92	3.50	5.27	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84
	oz-in	55	92	138	229	275	413	496	747	1111	1111	1111	1111	1111	1111	1111	1111	1111

With Decimal Gearhead

- * The normal torque is that the motor and gearhead are directly coupled.
- * Insert the denominator of reduction ratio in □ of gearhead model name.
- * Actual rotation speed is 2~15% less than synchronous speed.
- * ■ Color indicates that the rotation of gearhead shaft is in opposite direction as output shaft of motor.





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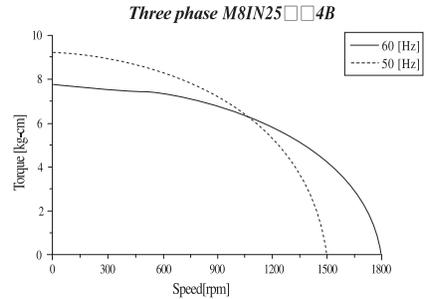
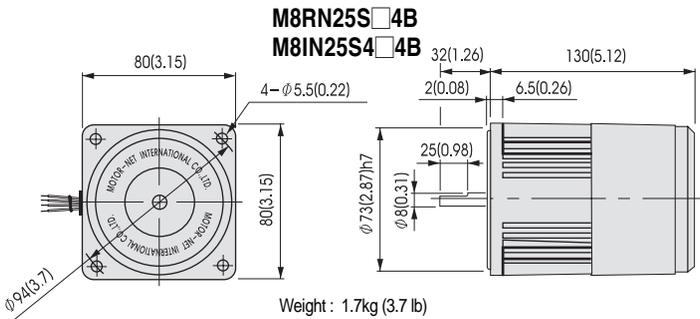
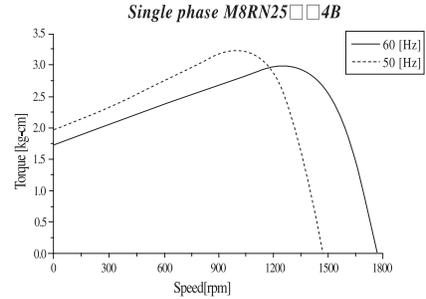
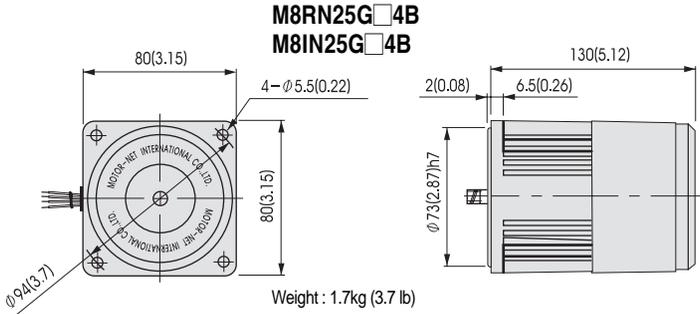
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M SERIES MOTORS 25W (1/30 HP)
BRAKE MOTOR (Single-Phase, Three-Phase) LEAD WIRE TYPE

Frame size 80 mm sq. (3.15 in. sq.)

Unit : mm(inch)

DIMENSIONS SPEED-TORQUE CURVE



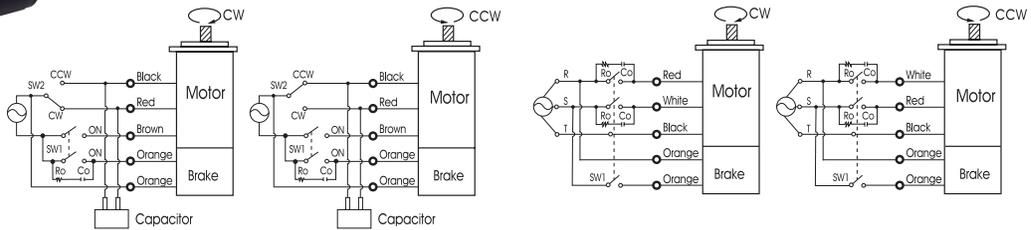
CONNECTION DIAGRAMS



Standard or with T.P

Single phase

Three phase



SPECIFICATIONS

The direction of rotation is seen from the end of motor shaft.

30 MIN. DUTY (only M8IN25G□4B CONTINUOUS DUTY), INSULATION CLASS A or E, 4POLES

Model	Output		Voltage (V)	Frequency (Hz)	Rated					Starting Torque			Magnetic Brake			Capacitor (μF)		
	(HP)	(W)			Input (W)	Current (A)	Torque (kg-cm) (N-m) (oz-in)		Speed (rpm)	Torque (kg-cm) (N-m) (oz-in)			Current (A)					
M8RN25GL4B	1/30	25	1φ 100	50	65	0.60	1.95	0.191	27.08	1250	1.6	0.157	22.22	4	0.392	55.55	0.09	10
				60	65	0.67	1.6	0.157	22.22	1550	1.6	0.157	22.22	4	0.392	55.55	0.09	
M8RN25GQ4B	1/30	25	1φ 200	50	65	0.28	1.95	0.191	27.08	1250	1.6	0.157	22.22	4	0.392	55.55	0.09	2.5
				60	65	0.33	1.6	0.157	22.22	1550	1.6	0.157	22.22	4	0.392	55.55	0.09	
M8RN25GH4B	1/30	25	1φ 220	60	80	0.37	1.6	0.157	22.22	1550	2.2	0.216	30.55	4	0.392	55.55	0.09	2.5
M8RN25GU4B	1/30	25	1φ 115	60	65	0.65	1.53	0.150	21.25	1600	1.6	0.157	22.22	4	0.392	55.55	0.09	8
M8RN25GC4B	1/30	25	1φ 220~240	50	70	0.29	1.95	0.191	27.08	1250	2.1	0.206	29.16	4	0.392	55.55	0.09	2
M8IN25GY4B	1/30	25	3φ 200	50	70	0.26	1.9	0.186	26.39	1300	5.9	0.578	81.93	4	0.392	55.55	0.09	-
				60	70	0.24	1.6	0.157	22.22	1550	4.7	0.461	65.27	4	0.392	55.55	0.09	-
M8IN25GK4B	1/30	25	3φ 220	50	70	0.3	1.85	0.181	25.69	1350	7.7	0.755	106.23	4	0.392	55.55	0.09	-
				60	70	0.25	1.55	0.152	21.52	1600	6.1	0.598	84.71	4	0.392	55.55	0.09	-

* For motor with straight shaft, please write S in place of G in model.
* Model in green screen represents the motors with THERMALLY PROTECTED according to UL regulation.
* Model in sky blue screen represents the motors with THERMALLY PROTECTED according to CE regulation.





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M SERIES GEARHEADS (G TYPE)

METAL TYPE & BALL BEARING TYPE

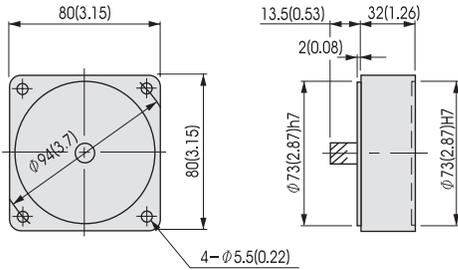
Frame size 80 mm sq. (3.15 in. sq.)

Unit : mm(inch)

DIMENSIONS

DECIMAL GEARHEAD

M8G10D

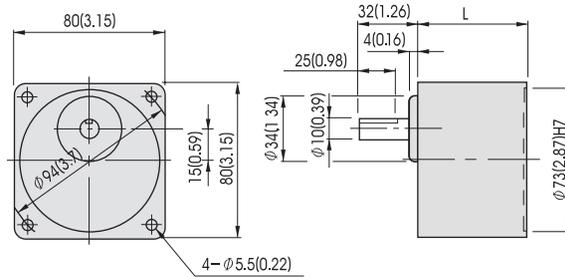


Weight : 0.4kg (0.88 lb)

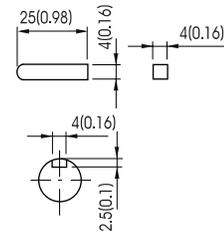


GEARHEAD

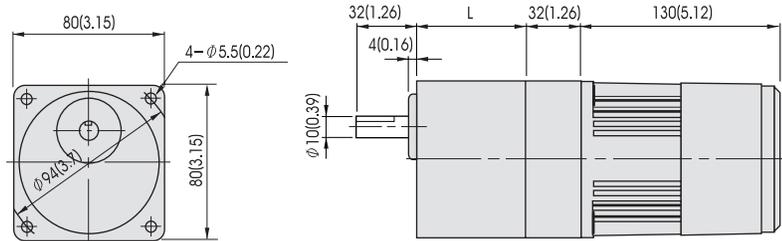
M8G□(B)



Gear Ratio	L		Weight		Bolt
	mm	in	kg	lb	
1/3~1/18	32	1.26	0.5	1.10	M5 × L50
1/25~1/180	42.5	1.65	0.7	1.54	M5 × L60



M8G□(B)+M8G10D+M8RN25G□4B



RATED TORQUE OF GEAR HEAD

Model	Speed(rpm)		500	300	200	120	100	60	50	30	20	15	10	6	5	3	2	1
	Ratio	50Hz	3	5	7.5	12.5	15	25	30	50	75	100	150	250	300	500	750	1500
60Hz		3.6	6	9	15	18	30	36	60	90	120	180	300	360	600	900	1800	
M8G□C, M8G□B M8G10D(DECIMAL)	kg-cm	4.7	7.9	11.8	19.7	23.7	35.6	42.7	64.4	80	80	80	80	80	80	80	80	80
	N-m	0.46	0.77	1.16	1.93	2.32	3.49	4.19	6.31	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84
	oz-in	66	110	165	274	329	494	593	894	1111	1111	1111	1111	1111	1111	1111	1111	1111

* The normal torque is that the motor and gearhead are directly coupled.
 * Insert the denominator of reduction ratio in □ of gearhead model name.
 * Actual rotation speed is 2~15% less than synchronous speed.
 * ■ Color indicates that the rotation of gearhead shaft is in opposite direction as output shaft of motor.

With Decimal Gearhead

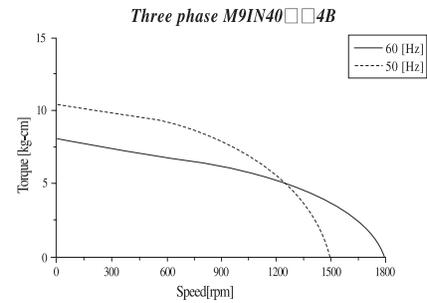
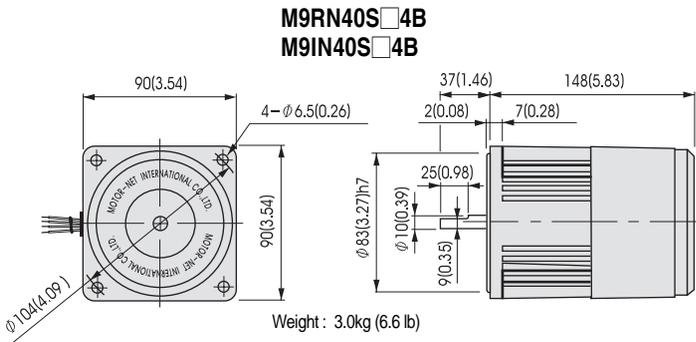
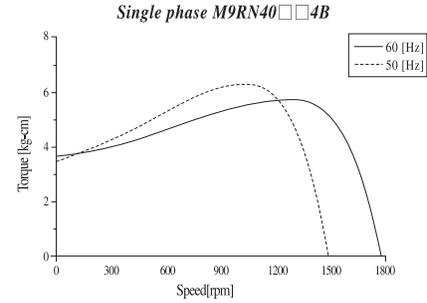
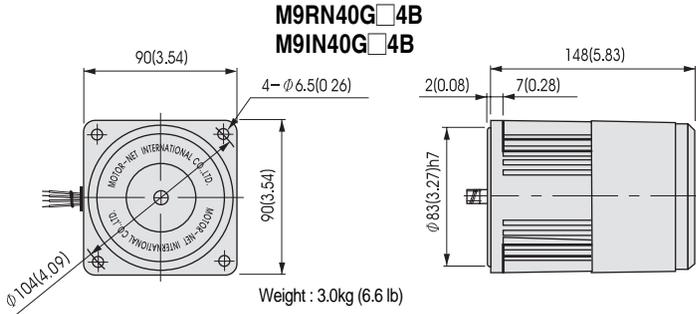


M SERIES MOTORS 40W (1/18.5 HP)
BRAKE MOTOR (Single-Phase, Three-Phase) LEAD WIRE TYPE

Frame size 90 mm sq. (3.54 in. sq.)

Unit : mm(inch)

DIMENSIONS SPEED-TORQUE CURVE



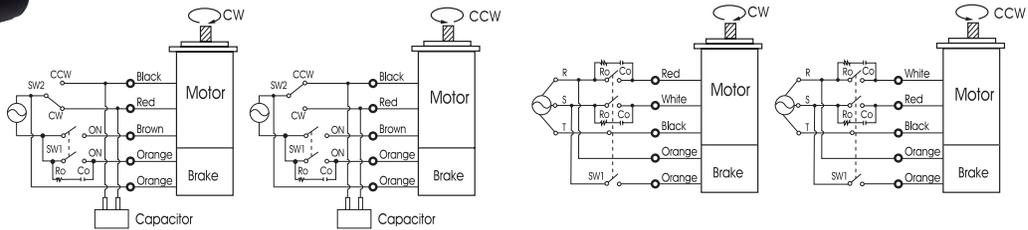
CONNECTION DIAGRAMS

Standard or with T.P



Single phase

Three phase



SPECIFICATIONS

The direction of rotation is seen from the end of motor shaft.

30 MIN. DUTY (only M9IN40G□4B CONTINUOUS DUTY), INSULATION CLASS A or E, 4POLES

Model	Output		Voltage (V)	Frequency (Hz)	Rated					Starting Torque			Magnetic Brake			Capacitor (μF)		
	(HP)	(W)			Input (W)	Current (A)	Torque (kg-cm, N-m, oz-in)		Speed (rpm)	Torque (kg-cm, N-m, oz-in)			Current (A)					
M9RN40GL4B	1/18.5	40	1φ 100	50	110	0.91	3	0.294	41.66	1300	2.8	0.274	38.88	10	0.980	138.87	0.11	15
60				110	1.0	2.5	0.245	34.72	1600	2.8	0.274	38.88	10	0.980	138.87	0.11		
M9RN40GQ4B	1/18.5	40	1φ 200	50	110	0.46	3	0.294	41.66	1300	2.8	0.274	38.88	10	0.980	138.87	0.11	4
60				110	0.54	2.5	0.245	34.72	1600	2.8	0.274	38.88	10	0.980	138.87	0.11		
M9RN40GH4B	1/18.5	40	1φ 220	60	120	0.54	2.5	0.245	34.72	1600	3.6	0.353	49.99	10	0.980	138.87	0.11	4
M9RN40GU4B	1/18.5	40	1φ 115	60	110	1.0	2.5	0.245	34.72	1600	2.8	0.274	38.88	10	0.980	138.87	0.11	12
M9RN40GC4B	1/18.5	40	1φ 220~240	50	110	0.52	3	0.294	41.66	1300	3.4	0.333	47.22	10	0.980	138.87	0.11	3.5
M9IN40GY4B	1/18.5	40	3φ 200	50	100	0.33	3	0.294	41.66	1300	8.75	0.858	121.51	10	0.980	138.87	0.11	-
60				100	0.32	2.6	0.255	36.11	1550	6.5	0.637	90.27	10	0.980	138.87	0.11		
M9IN40GK4B	1/18.5	40	2φ 220	50	100	0.38	2.9	0.284	40.27	1350	11	1.078	152.76	10	0.980	138.87	0.11	-
60				100	0.32	2.5	0.245	34.72	1600	8.5	0.833	118.04	10	0.980	138.87	0.11		

* For motor with straight shaft, please write S in place of G in model.

* Model in green screen represents the motors with THERMALLY PROTECTED according to UL regulation.

* Model in sky blue screen represents the motors with THERMALLY PROTECTED according to CE regulation.





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M SERIES GEARHEADS (G TYPE)

METAL TYPE & BALL BEARING TYPE

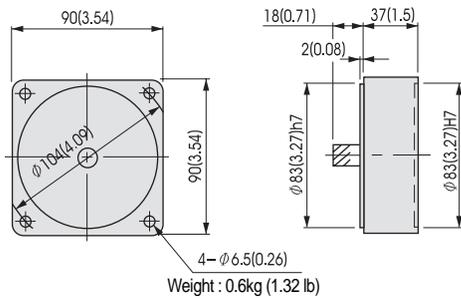
Frame size 90 mm sq. (3.54 in. sq.)

Unit : mm(inch)

DIMENSIONS

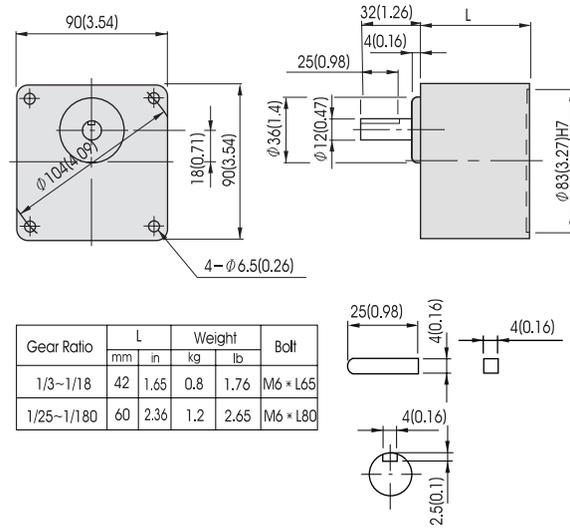
DECIMAL GEARHEAD

M9G10D

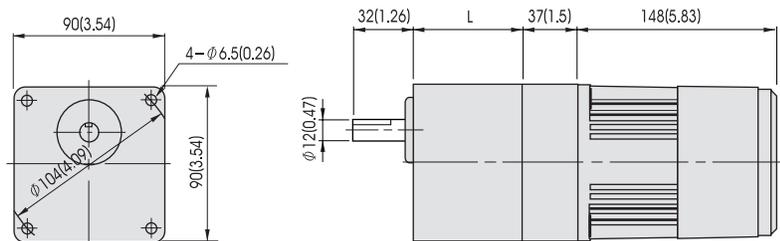


GEARHEAD

M9G□C(B)



M9G□C(B)+M9G10D+M9RN40G□4B



RATED TORQUE OF GEAR HEAD

Model	Speed(rpm)		500	300	200	120	100	60	50	30	20	15	10	6	5	3	2	1
	Ratio	50Hz	3	5	7.5	12.5	15	25	30	50	75	100	150	250	300	500	750	1500
		60Hz	3.6	6	9	15	18	30	36	60	90	120	180	300	360	600	900	1800
M9G□C, M9G□B M9G10D(DECIMAL)	kg-cm	7.3	12.2	18.2	30.4	36.5	54.8	65.7	99	100	100	100	100	100	100	100	100	100
	N-m	0.71	1.19	1.79	2.98	3.57	5.37	6.44	9.70	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80
	oz-in	101	169	253	422	506	760	912	1375	1389	1389	1389	1389	1389	1389	1389	1389	1389

- * The normal torque is that the motor and gearhead are directly coupled.
- * Insert the denominator of reduction ratio in □ of gearhead model name.
- * Actual rotation speed is 2~15% less than synchronous speed.
- * ■ Color indicates that the rotation of gearhead shaft is in opposite direction as output shaft of motor.

With Decimal Gearhead





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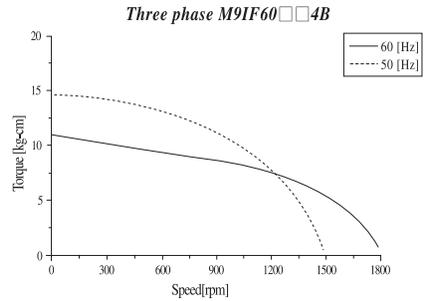
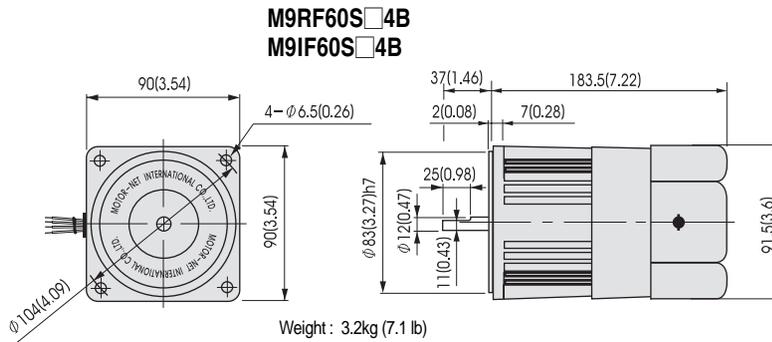
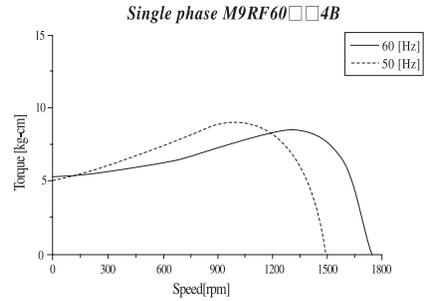
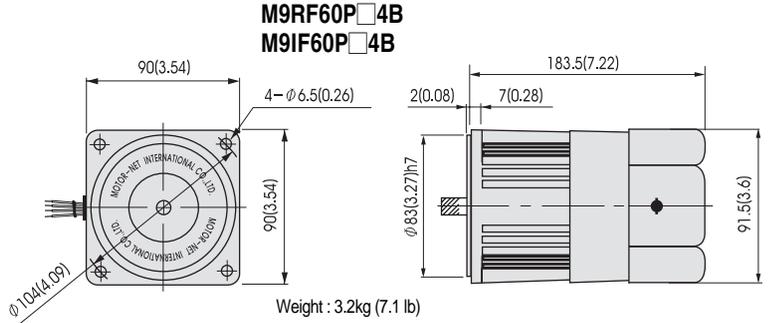
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M SERIES MOTORS 60W (1/8 HP)
BRAKE MOTOR (Single-Phase, Three-phase) LEAD WIRE TYPE

Frame size 90 mm sq. (3.54 in. sq.)

Unit : mm(inch)

DIMENSIONS SPEED-TORQUE CURVE



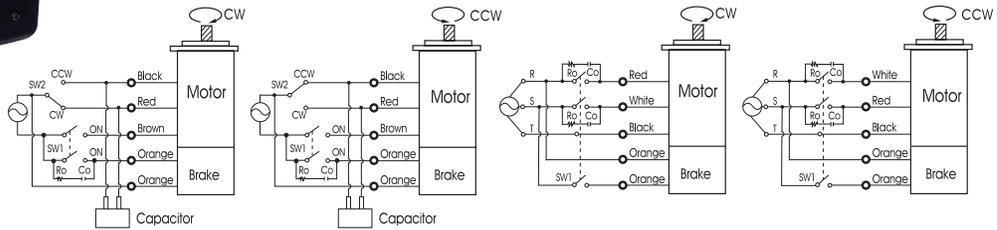
CONNECTION DIAGRAMS



Standard or with T.P

Single phase

Three phase



SPECIFICATIONS

30 MIN. DUTY (only M9IF60P□4B CONTINUOUS DUTY), INSULATION CLASS A or E, 4POLES

The direction of rotation is seen from the end of motor shaft.

Model	Output		Voltage (V)	Frequency (Hz)	Rated					Starting Torque			Magnetic Brake			Capacitor (μF)		
	(HP)	(W)			Input (W)	Current (A)	Torque (kg-cm) (N-m) (oz-in)		Speed (rpm)	Torque (kg-cm) (N-m) (oz-in)			Current (A)					
M9RF60PL4B	1/12.5	60	1φ 100	50	160	1.50	4.5	0.441	62.49	1300	5.6	0.549	77.77	10	0.980	138.87	0.11	28
60				160	1.60	3.7	0.363	51.38	1600	5.6	0.549	77.77	10	0.980	138.87	0.11		
M9RF60PQ4B	1/12.5	60	1φ 200	50	160	0.72	4.5	0.441	62.49	1300	4.5	0.441	62.49	10	0.980	138.87	0.11	6
60				160	0.82	3.7	0.363	51.38	1600	4.5	0.441	62.49	10	0.980	138.87	0.11		
M9RF60PH4B	1/12.5	60	1φ 220	60	180	0.93	3.7	0.363	51.38	1600	6.1	0.598	84.71	10	0.980	138.87	0.11	6.5
M9RF60PU4B	1/12.5	60	1φ 115	60	160	1.45	3.7	0.363	51.38	1600	4.5	0.441	62.49	10	0.980	138.87	0.11	20
M9RF60PC4B	1/12.5	60	1φ 220~240	50	160	0.70	4.5	0.441	62.49	1300	5.5	0.539	76.38	10	0.980	138.87	0.11	5
M9IF60PY4B	1/12.5	60	3φ 200	50	135	0.46	4.5	0.441	62.49	1300	10.4	1.019	144.42	10	0.980	138.87	0.11	-
				60	135	0.42	3.8	0.372	52.77	1550	7.5	0.735	104.15	10	0.980	138.87	0.11	
M9IF60PK4B	1/12.5	60	3φ 220	50	135	0.5	4.4	0.431	61.10	1350	13.5	1.323	187.47	10	0.980	138.87	0.11	-
				60	135	0.46	3.7	0.363	51.38	1600	9.7	0.951	134.70	10	0.980	138.87	0.11	

* For motor with straight shaft, please write S in place of P in model.
* Model in green screen represents the motors with THERMALLY PROTECTED according to UL regulation.
* Model in sky blue screen represents the motors with THERMALLY PROTECTED according to CE regulation.





M SERIES GEARHEADS (P TYPE)

BALL BEARING TYPE

Frame size 90 mm sq. (3.54 in. sq.)

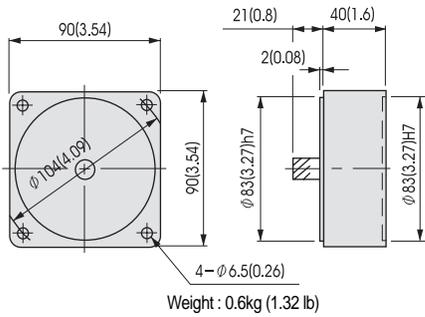
Unit : mm(inch)

DIMENSIONS

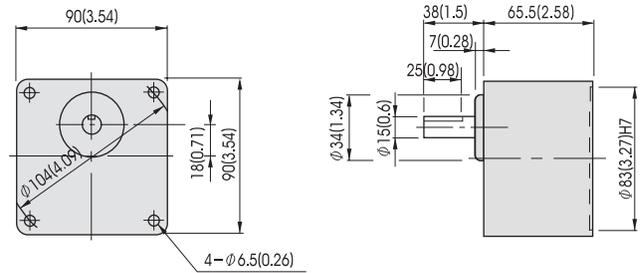
DECIMAL GEARHEAD

GEARHEAD

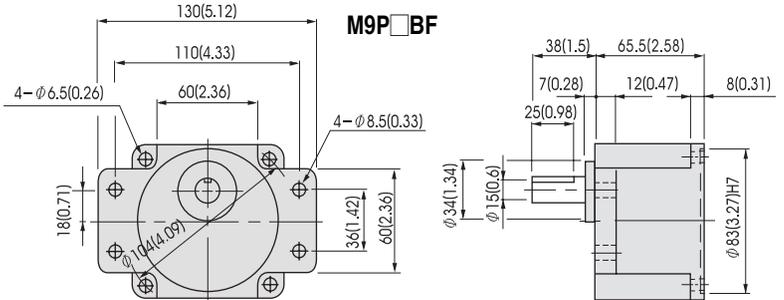
M9P10D



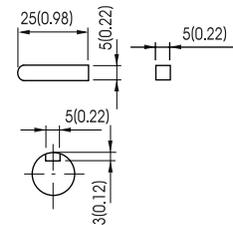
M9P□B



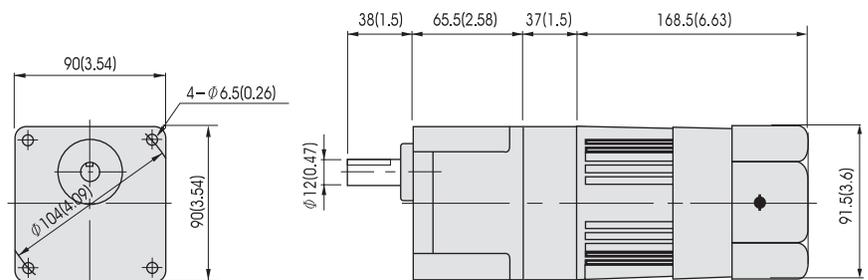
M9P□BF



Model	Gear Ratio	Weight		Bolt
		kg	lb	
M9P□B	1/3~1/180	1.5	3.31	M6 × L95
M9P□BF	1/3~1/180	1.6	3.53	M6 × L25



M9P□B+M9P10D+M9RF60P□4B



RATED TORQUE OF GEAR HEAD

Model	Speed(rpm)		500	300	200	120	100	60	50	30	20	15	10	6	5	3	2	1
	Ratio	50Hz	3	5	7.5	12.5	15	25	30	50	75	100	150	250	300	500	750	1500
		60Hz	3.6	6	9	15	18	30	36	60	90	120	180	300	360	600	900	1800
M9P□B, M9P□BF M9P10D(DECIMAL)	kg-cm	10.9	18.2	27.3	41.1	49.3	74.3	89.1	148.5	199.1	200	200	200	200	200	200	200	200
	N-m	1.07	1.79	2.68	4.02	4.83	7.28	8.73	14.55	19.51	19.60	19.60	19.60	19.60	19.60	19.60	19.60	19.60
	oz-in	152	253	380	570	684	1031	1237	2062	2765	2777	2777	2777	2777	2777	2777	2777	2777

With Decimal Gearhead

* The normal torque is that the motor and gearhead are directly coupled.
* Insert the denominator of reduction ratio in □ of gearhead model name.
* Actual rotation speed is 2~15% less than synchronous speed.
* ■ Color indicates that the rotation of gearhead shaft is in opposite direction as output shaft of motor.





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M SERIES GEARHEADS (UP TYPE) **BALL BEARING TYPE**

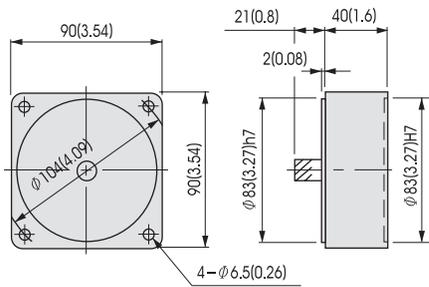
Frame size 90 mm sq. (3.54 in. sq.)

Unit : mm(inch)

DIMENSIONS

DECIMAL GEARHEAD

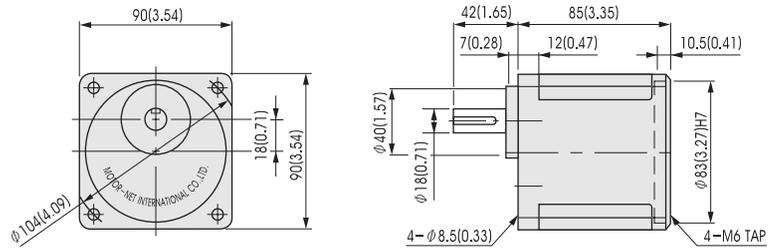
M9P10D



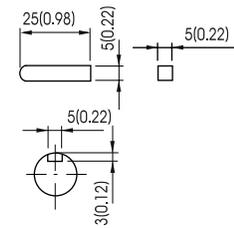
Weight : 0.6kg (1.32 lb)

GEARHEAD

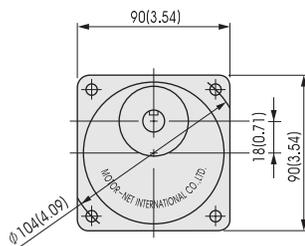
M9UP□B



Model	Gear Ratio	Weight		Bolt
		kg	lb	
M9UP□B	1/3~1/180	1.95	4.30	M6 × L20



M9UP□B+M9RF60P□4B



RATED TORQUE OF GEAR HEAD

Model	Speed(rpm)																
	Ratio	50Hz	300	200	120	100	60	50	30	20	15	10	6	5	3	2	1
M9UP□B M9P10D(DECIMAL)	50Hz	3	5	7.5	12.5	15	25	30	50	75	100	150	250	300	500	750	1500
	60Hz	3.6	6	9	15	18	30	36	60	90	120	180	300	360	600	900	1800
	kg-cm	10.9	18.2	27.3	41.1	49.3	74.3	89.1	148.5	199.1	265.5	300	300	300	300	300	300
	N-m	1.07	1.79	2.68	4.02	4.83	7.28	8.73	14.55	19.51	26.02	29.40	29.40	29.40	29.40	29.40	
	oz-in	152	253	380	570	684	1031	1237	2062	2765	3687	4166	4166	4166	4166	4166	

With Decimal Gearhead

- * The normal torque is that the motor and gearhead are directly coupled.
- * Insert the denominator of reduction ratio in □ of gearhead model name.
- * Actual rotation speed is 2~15% less than synchronous speed.
- * ■ Color indicates that the rotation of gearhead shaft is in opposite direction as output shaft of motor.





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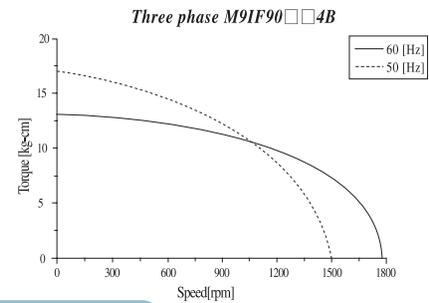
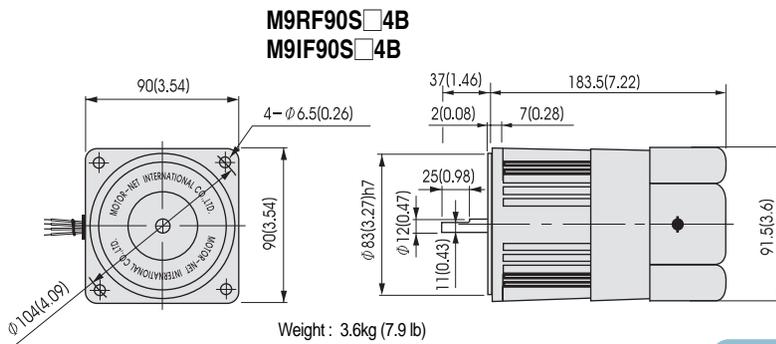
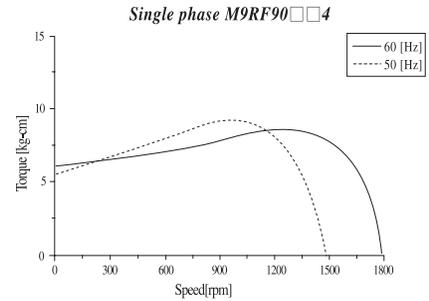
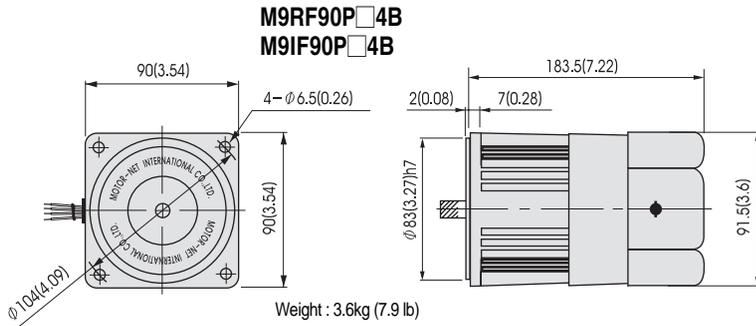
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M SERIES MOTORS 90W (1/8 HP)
BRAKE MOTOR (Single-Phase, Three-phase) LEAD WIRE TYPE

Frame size 90 mm sq. (3.54 in. sq.)

Unit : mm(inch)

DIMENSIONS SPEED-TORQUE CURVE



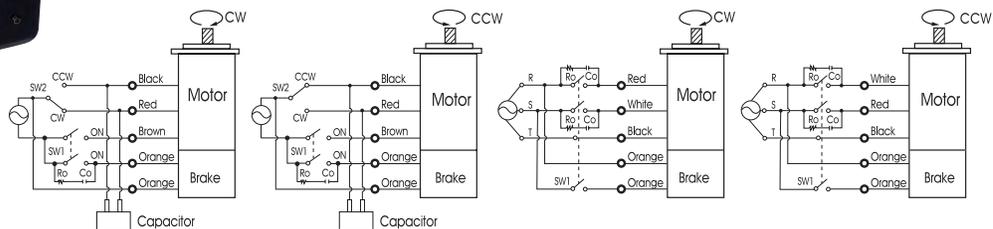
CONNECTION DIAGRAMS

Standard or with T.P



Single phase

Three phase



SPECIFICATIONS

The direction of rotation is seen from the end of motor shaft.

30 MIN. DUTY (only M9IF90P□4B CONTINUOUS DUTY), INSULATION CLASS A or E, 4POLES

Model	Output		Voltage (V)	Frequency (Hz)	Rated					Starting Torque			Magnetic Brake			Capacitor (μF)		
	(HP)	(W)			Input (W)	Current (A)	Torque (kg-cm, N-m, oz-in)			Speed (rpm)	Torque (kg-cm, N-m, oz-in)			Current (A)				
M9RF90PL4B	1/8	90	1φ 100	50	230	2.0	6.8	0.666	94.43	1300	6.7	0.657	93.04	10	0.980	138.87	0.11	35
				60	230	2.3	5.5	0.539	76.38	1600	6.7	0.657	93.04	10	0.980	138.87	0.11	
M9RF90PQ4B	1/8	90	1φ 200	50	230	1.0	6.8	0.666	94.43	1300	6.7	0.657	93.04	10	0.980	138.87	0.11	9
				60	230	1.2	5.5	0.539	76.38	1600	6.7	0.657	93.04	10	0.980	138.87	0.11	
M9RF90PH4B	1/8	90	1φ 220	60	250	1.15	5.5	0.539	76.38	1600	8.2	0.804	113.87	10	0.980	138.87	0.11	8.5
M9RF90PU4B	1/8	90	1φ 115	60	230	1.7	5.5	0.539	76.38	1600	6.5	0.637	90.27	10	0.980	138.87	0.11	20
M9RF90PC4B	1/8	90	1φ 220~240	50	230	1.0	6.8	0.666	94.43	1300	7.6	0.745	105.54	10	0.980	138.87	0.11	8
M9IF90PY4B	1/8	90	3φ 200	50	180	0.64	6.8	0.666	94.43	1300	17	1.666	236.08	10	0.980	138.87	0.11	-
				60	180	0.61	5.7	0.559	79.16	1550	13	1.274	180.53	10	0.980	138.87	0.11	
M9IF90PK4B	1/8	90	3φ 220	50	180	0.66	6.5	0.637	90.27	1350	19	1.862	263.85	10	0.980	138.87	0.11	-
				60	180	0.63	5.5	0.539	76.38	1600	15	1.470	208.30	10	0.980	138.87	0.11	

* For motor with straight shaft, please write S in place of P in model.

* Model in green screen represents the motors with THERMALLY PROTECTED according to UL regulation.

* Model in sky blue screen represents the motors with THERMALLY PROTECTED according to CE regulation.





M SERIES GEARHEADS (P TYPE) BALL BEARING TYPE

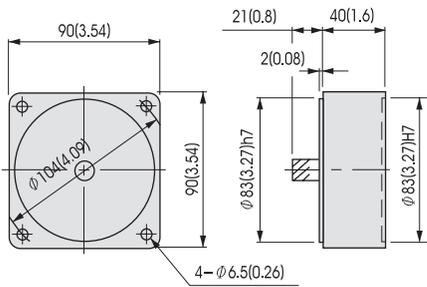
Frame size 90 mm sq. (3.54 in. sq.)

Unit : mm(inch)

DIMENSIONS

DECIMAL GEARHEAD

M9P10D

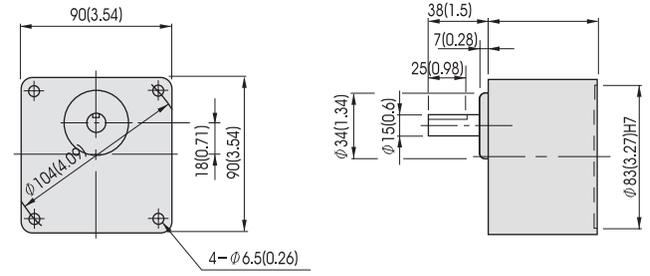


Weight : 0.6kg (1.32 lb)

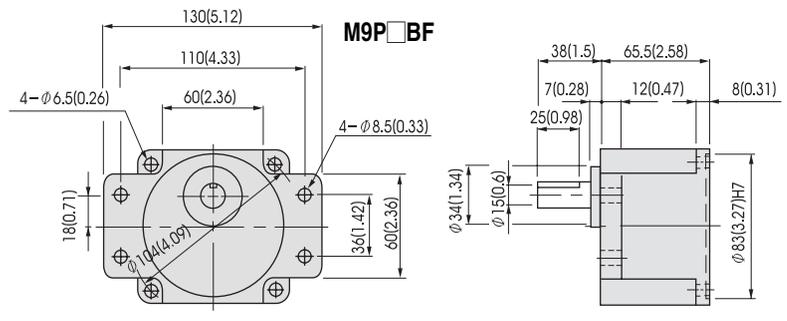


GEARHEAD

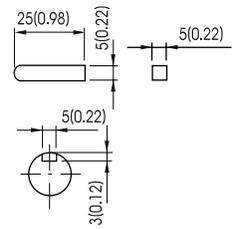
M9P□B



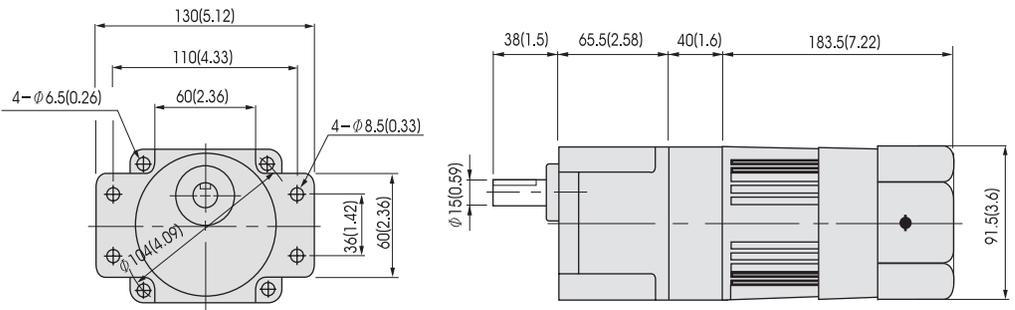
M9P□BF



Model	Gear Ratio	Weight		Bolt
		kg	lb	
M9P□B	1/3~1/180	1.5	3.31	M6 × L95
M9P□BF	1/3~1/180	1.6	3.53	M6 × L25



M9P□BF+M9P10D+M9RF90P□4B



RATED TORQUE OF GEAR HEAD

Model	Speed(rpm)		500	300	200	120	100	60	50	30	20	15	10	6	5	3	2	1
	Ratio	50Hz	3	5	7.5	12.5	15	25	30	50	75	100	150	250	300	500	750	1500
		60Hz	3.6	6	9	15	18	30	36	60	90	120	180	300	360	600	900	1800
M9P□B, M9P□BF M9P10D(DECIMAL)	kg-cm	16.5	27.5	41.3	62.1	74.5	112.2	134.6	200	200	200	200	200	200	200	200	200	200
	N-m	1.62	2.70	4.05	6.08	7.30	11.00	13.19	19.60	19.60	19.60	19.60	19.60	19.60	19.60	19.60	19.60	19.60
	oz-in	229	382	574	862	1034	1558	1870	2777	2777	2777	2777	2777	2777	2777	2777	2777	2777

* The normal torque is that the motor and gearhead are directly coupled.
 * Insert the denominator of reduction ratio in □ of gearhead model name.
 * Actual rotation speed is 2~15% less than synchronous speed.
 * ■ Color indicates that the rotation of gearhead shaft is in opposite direction as output shaft of motor.

With Decimal Gearhead



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M SERIES GEARHEADS (UP TYPE)

BALL BEARING TYPE

Frame size 90 mm sq. (3.54 in. sq.)

Unit : mm(inch)

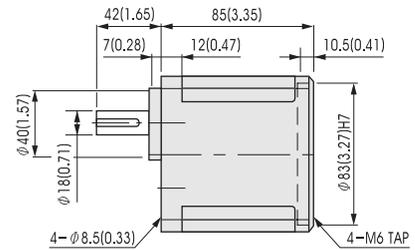
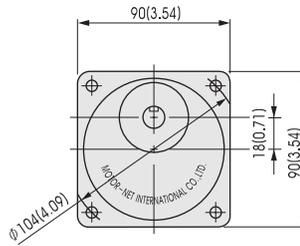
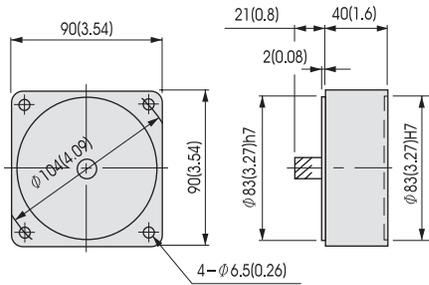
DIMENSIONS

DECIMAL GEARHEAD

GEARHEAD

M9P10D

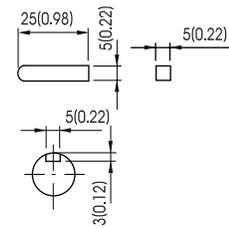
M9UP□B



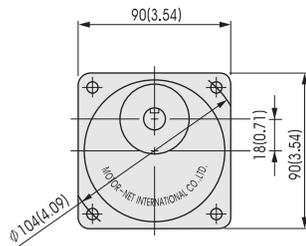
Weight : 0.6kg (1.32 lb)



Model	Gear Ratio	Weight		Bolt
		kg	lb	
M9UP□B	1/3~1/180	1.95	4.30	M6 × L20



M9UP□B+M9RF90P□4B



RATED TORQUE OF GEAR HEAD

Model	Speed(rpm)		500	300	200	120	100	60	50	30	20	15	10	6	5	3	2	1
	Ratio	50Hz	3	5	7.5	12.5	15	25	30	50	75	100	150	250	300	500	750	1500
		60Hz	3.6	6	9	15	18	30	36	60	90	120	180	300	360	600	900	1800
M9UP□B M9P10D(DECIMAL)	kg-cm	16.5	27.5	41.3	62.1	74.5	112.2	134.6	224.4	300	300	300	300	300	300	300	300	300
	N-m	1.62	2.70	4.05	6.08	7.30	11.00	13.19	21.99	29.40	29.40	29.40	29.40	29.40	29.40	29.40	29.40	29.40
	oz-in	229	382	574	862	1034	1558	1870	3116	4166	4166	4166	4166	4166	4166	4166	4166	4166

With Decimal Gearhead

- * The normal torque is that the motor and gearhead are directly coupled.
- * Insert the denominator of reduction ratio in □ of gearhead model name.
- * Actual rotation speed is 2~15% less than synchronous speed.
- * ■ Color indicates that the rotation of gearhead shaft is in opposite direction as output shaft of motor.

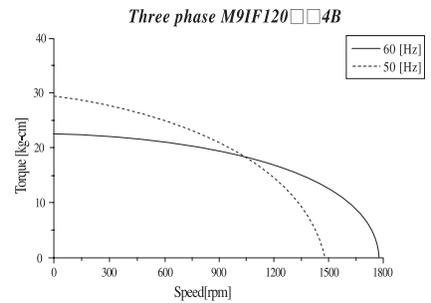
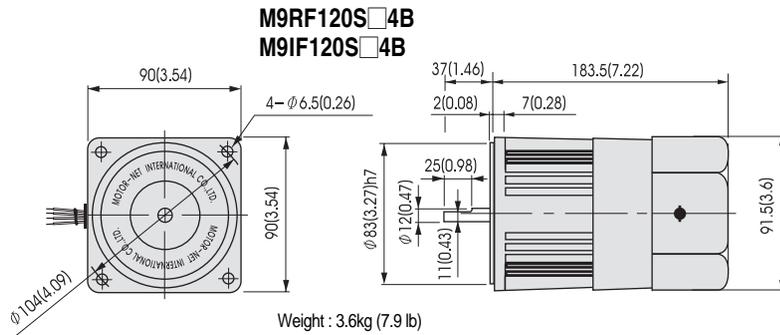
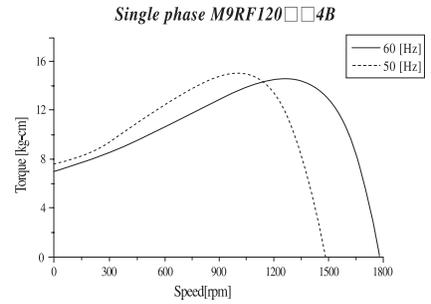
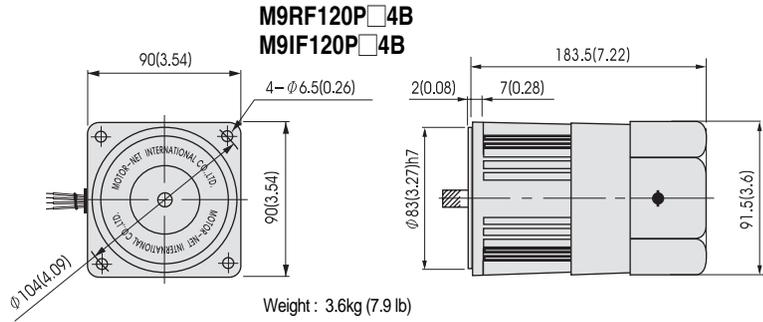


M SERIES MOTORS 120W (1/6 HP)
BRAKE MOTOR (Single-Phase, Three-phase) LEAD WIRE TYPE

Frame size 90 mm sq. (3.54 in. sq.)

Unit : mm(inch)

DIMENSIONS SPEED-TORQUE CURVE



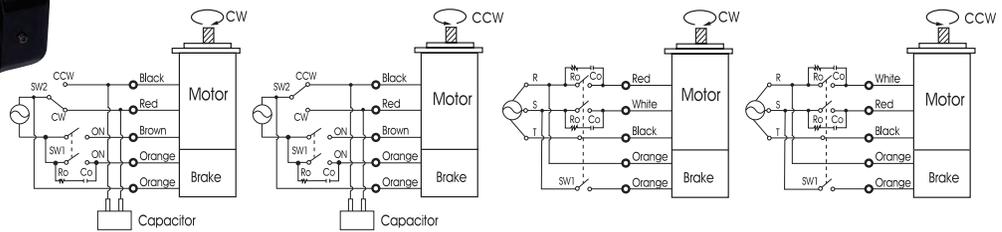
CONNECTION DIAGRAMS

Standard or with T.P



Single phase

Three phase



SPECIFICATIONS

The direction of rotation is seen from the end of motor shaft.

30 MIN. DUTY (only M9IF120P□4B CONTINUOUS DUTY), INSULATION CLASS A or E, 4POLES

Model	Output		Voltage (V)	Frequency (Hz)	Rated					Starting Torque			Magnetic Brake			Capacitor (μF)		
	(HP)	(W)			Input (W)	Current (A)	Torque (kg-cm) (N-m) (oz-in)		Speed (rpm)	Torque (kg-cm) (N-m) (oz-in)		Current (A)						
M9RF120PL4B	1/6	120	1φ 100	50	280	2.5	9.4	0.921	130.04	1250	7.5	0.735	104.15	10	0.980	138.87	0.11	40
60				280	2.6	7.6	0.745	105.54	1550	7.5	0.735	104.15	10	0.980	138.87	0.11		
M9RF120PQ4B	1/6	120	1φ 200	50	280	1.20	9.4	0.921	130.04	1250	7.5	0.735	104.15	10	0.980	138.87	0.11	10
60				280	1.32	7.6	0.745	105.54	1550	7.5	0.735	104.15	10	0.980	138.87	0.11		
M9RF120PH4B	1/6	120	1φ 220	60	280	1.25	7.6	0.745	105.54	1550	8.5	0.833	118.04	10	0.980	138.87	0.11	9
M9RF120PU4B	1/6	120	1φ 115	60	280	2.6	7.4	0.725	102.76	1600	7	0.686	97.21	10	0.980	138.87	0.11	30
M9RF120PC4B	1/6	120	1φ 220~240	50	280	1.15	9.4	0.921	130.54	1250	8.3	0.813	115.26	10	0.980	138.87	0.11	9
M9IF120PY4B	1/6	120	3φ 200	50	200	0.71	8.7	0.853	120.82	1350	22	2.156	305.51	10	0.980	138.87	0.11	-
				60	200	0.67	7.6	0.745	105.54	1550	17	1.666	236.08	10	0.980	138.87	0.11	
M9IF120PK4B	1/6	120	3φ 220	50	240	0.88	8.7	0.853	120.82	1350	27	2.646	374.95	10	0.980	138.87	0.11	-
				60	240	0.82	7.4	0.725	102.76	1600	21	2.058	291.63	10	0.980	138.87	0.11	

* For motor with straight shaft, please write S in place of P in model.

* Model in green screen represents the motors with THERMALLY PROTECTED according to UL regulation.

* Model in sky blue screen represents the motors with THERMALLY PROTECTED according to CE regulation.





M SERIES GEARHEADS (P TYPE)

BALL BEARING TYPE

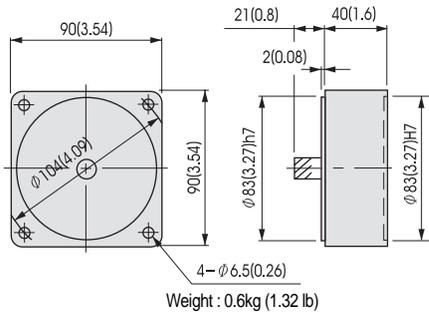
Frame size 90 mm sq. (3.54 in. sq.)

Unit : mm(inch)

DIMENSIONS

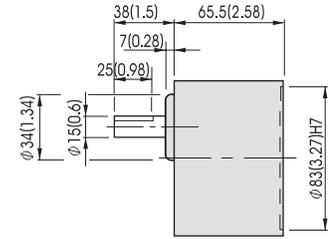
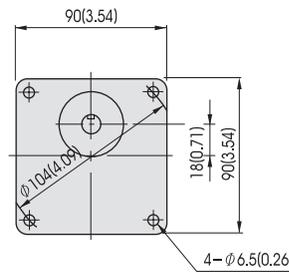
DECIMAL GEARHEAD

M9P10D

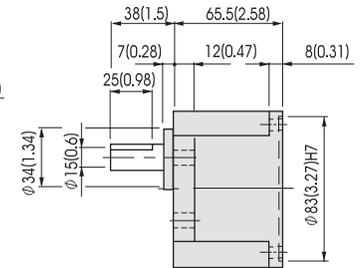
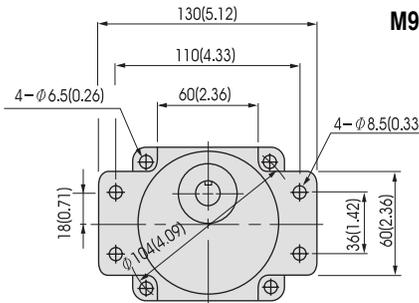


GEARHEAD

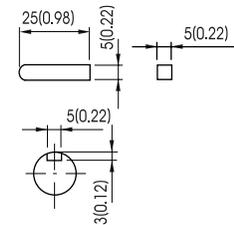
M9P□B



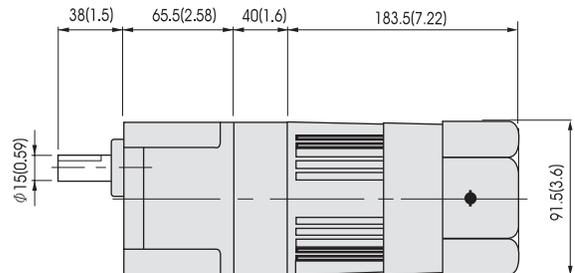
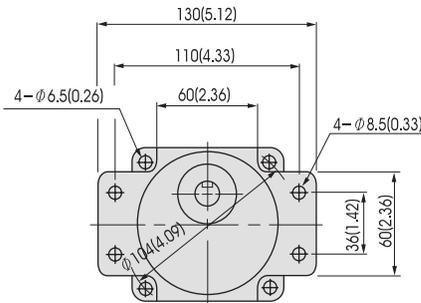
M9P□BF



Model	Gear Ratio	Weight		Bolt
		kg	lb	
M9P□B	1/3~1/180	1.5	3.31	M6 × L95
M9P□BF	1/3~1/180	1.6	3.53	M6 × L25



M9P□BF+M9P10D+M9RF120P□4B



RATED TORQUE OF GEARHEAD

Model	Speed(rpm)		500	300	200	120	100	60	50	30	20	15	10	6	5	3	2	1
	Ratio	50Hz	3	5	7.5	12.5	15	25	30	50	75	100	150	250	300	500	750	1500
M9P□B, M9P□BF M9P10D(DECIMAL)		60Hz	3.6	6	9	15	18	30	36	60	90	120	180	300	360	600	900	1800
	kg-cm	22.8	38.1	57.1	85.8	102.9	155.1	186.1	200	200	200	200	200	200	200	200	200	200
N-m	2.24	3.73	5.60	8.41	10.09	15.20	18.24	19.60	19.60	19.60	19.60	19.60	19.60	19.60	19.60	19.60	19.60	
oz-in	317	529	793	1191	1429	2154	2585	2777	2777	2777	2777	2777	2777	2777	2777	2777	2777	

* The normal torque is that the motor and gearhead are directly coupled.
* Insert the denominator of reduction ratio in □ of gearhead model name.
* Actual rotation speed is 2~15% less than synchronous speed.
* ■ Color indicates that the rotation of gearhead shaft is in opposite direction as output shaft of motor.

With Decimal Gearhead





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M SERIES GEARHEADS (UP TYPE) **BALL BEARING TYPE**

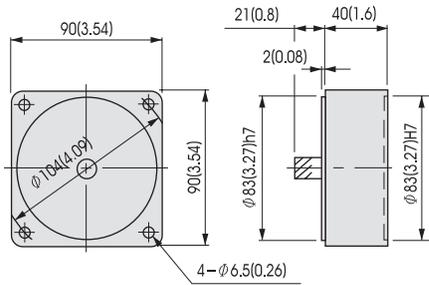
Frame size 90 mm sq. (3.54 in. sq.)

Unit : mm(inch)

DIMENSIONS

DECIMAL GEARHEAD

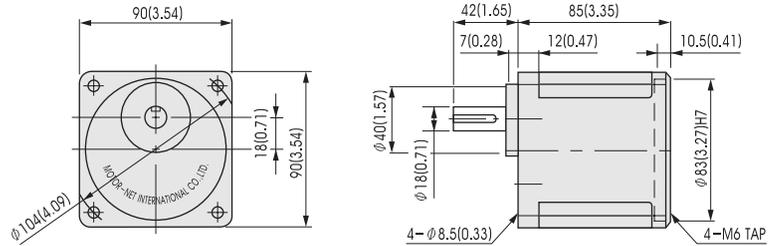
M9P10D



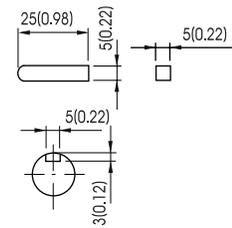
Weight : 0.6kg (1.32 lb)

GEARHEAD

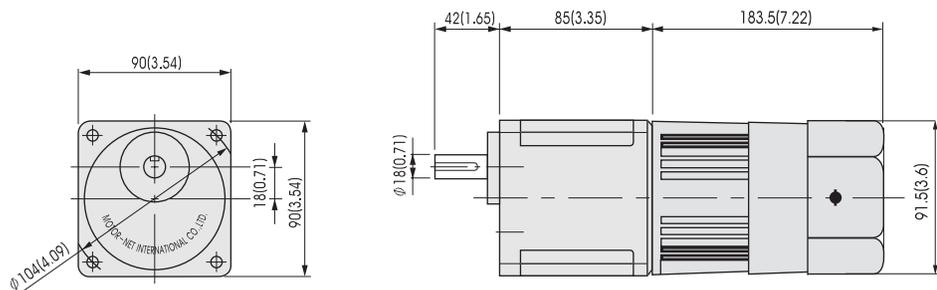
M9UP□B



Model	Gear Ratio	Weight		Bolt
		kg	lb	
M9UP□B	1/3~1/180	1.95	4.30	M6 × L20



M9UP□B+M9RF120P□4B



RATED TORQUE OF GEARHEAD

Model	Speed(rpm)		500	300	200	120	100	60	50	30	20	15	10	6	5	3	2	1
	Ratio		50Hz	3	5	7.5	12.5	15	25	30	50	75	100	150	250	300	500	750
		60Hz	3.6	6	9	15	18	30	36	60	90	120	180	300	360	600	900	1800
M9UP□B M9P10D(DECIMAL)	kg-cm		22.8	38.1	57.1	85.8	102.9	155.1	186.1	300	300	300	300	300	300	300	300	300
	N-m		2.24	3.73	5.60	8.41	10.09	15.20	18.24	29.40	29.40	29.40	29.40	29.40	29.40	29.40	29.40	29.40
	oz-in		317	529	793	1191	1429	2154	2585	4166	4166	4166	4166	4166	4166	4166	4166	4166

With Decimal Gearhead

- * The normal torque is that the motor and gearhead are directly coupled.
- * Insert the denominator of reduction ratio in □ of gearhead model name.
- * Actual rotation speed is 2~15% less than synchronous speed.
- * ■ Color indicates that the rotation of gearhead shaft is in opposite direction as output shaft of motor.

