ExceM since 1999

INDUCTION MOTORS

120W (1/6 HP)

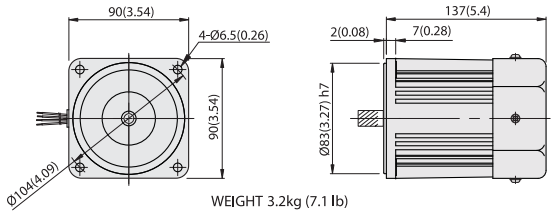
Frame size 90mm sq. (3.54 in. sq.)

Single-Phase, Three-Phase LEAD WIRE TYPE

DIMENSIONS

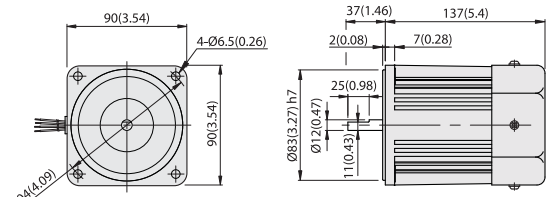
Unit : mm(inch)

E9I120P□H



WEIGHT 3.2kg (7.1 lb)

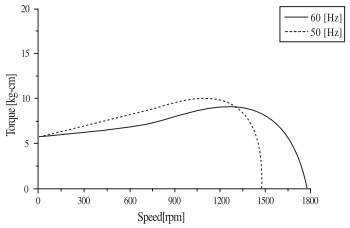
E9I120D□



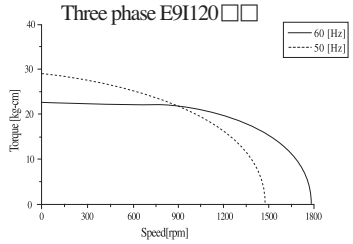
WEIGHT 3.2kg (7.1 lb)

SPEED-TORQUE CURVE

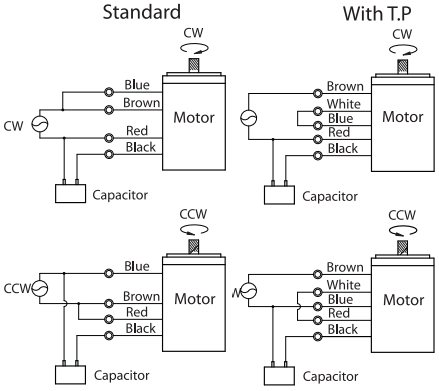
Single phase E9I120□□



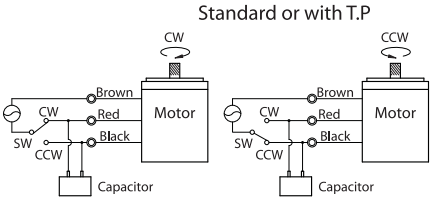
Three phase E9I120□□



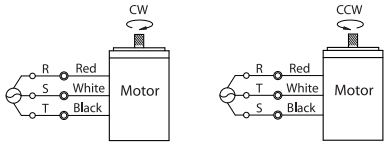
CONNECTION DIAGRAMS (4-lead wire type)



CONNECTION DIAGRAMS (3-lead wire type)



CONNECTION DIAGRAMS (3 phase)



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

SPECIFICATIONS

CONTINUOUS DUTY, INSULATION CLASS A or E, 4POLES

Model	Output		Voltage	Frequency	Rated						Starting Torque			Capacitor
					Input	Current	Torque			Speed				
	(HP)	(W)	(V)	(Hz)	(W)	(A)	(kg-cm)	(N-m)	(oz-in)	(rpm)	(kg-cm)	(N-m)	(oz-in)	(㎌)
E9I120□C	1/6	120	1Ø100	50	240	2.30	9.4	0.921	130.54	1250	6.1	0.598	84.71	30
				60	240	2.30	7.6	0.745	105.54	1550	6.1	0.598	84.71	
E9I120□D	1/6	120	1Ø200	50	240	0.95	9.4	0.921	130.54	1250	6.1	0.598	84.71	8
				60	240	1.10	7.6	0.745	105.54	1550	6.1	0.598	84.71	
E9I120□B	1/6	120	1Ø220	60	250	1.2	7.4	0.725	102.76	1600	6.8	0.666	94.43	7
E9I120□E	1/6	120	1Ø115	60	250	2.3	7.4	0.725	102.76	1600	5.9	0.578	81.93	25
E9I120□X	1/6	120	1Ø220~240	50	250	1.0	9.4	0.921	130.54	1250	6.8	0.666	94.43	7
E9I120□U	1/6	120	3Ø200	50	200	0.71	8.7	0.853	120.82	1350	22	2.156	305.51	-
				60	200	0.67	7.6	0.745	105.54	1550	17	1.666	236.08	
E9I120□T	1/6	120	3Ø200~230	50	240	0.88	8.7	0.853	120.82	1350	27	2.646	374.95	-
				60	240	0.82	7.4	0.725	102.76	1600	21	2.058	291.63	
E9I120□S	1/6	120	3Ø380~415	50	240	0.51	8.7	0.853	120.82	1350	27	2.646	374.95	-
				60	240	0.48	7.4	0.725	102.76	1600	21	2.058	291.63	
E9I120□R	1/6	120	3Ø440	50	240	0.45	8.7	0.853	120.82	1350	27	2.646	374.95	-
				60	240	0.41	7.4	0.725	102.76	1600	21	2.058	291.63	

* Model in grey screen represents the motors with THERMALLY PROTECTED according to UL regulation.
* Model in dark grey screen represents the motors with THERMALLY PROTECTED according to CE regulation.
* In case of some models certificated for export, the special cord like CE or UL is added after the existing model no. ex) E9I60| |XH-CE, E9I60| |EH-UL.
* Insulation class for motors which acquired certificates for export is B.

ExceM since 1993

GEARHEADS(POWERFUL TYPE)

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

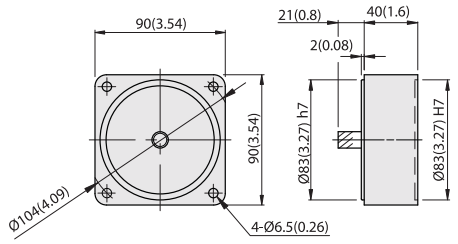
BALL BEARING TYPE

DIMENSIONS

Unit : mm(inch)

DECIMAL GEARHEAD

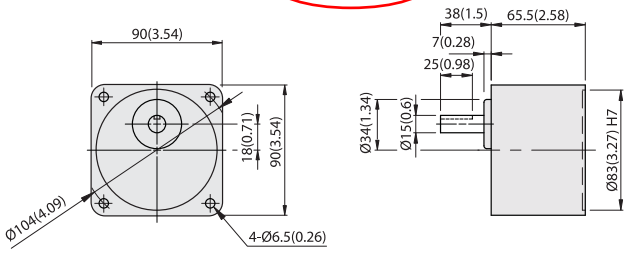
E9V10D



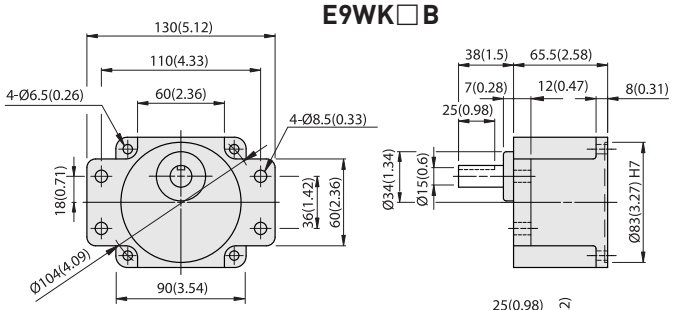
WEIGHT 0.6kg (1.3 lb)

GEARHEAD

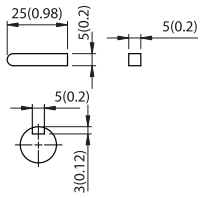
E9VK□B



E9WK□B

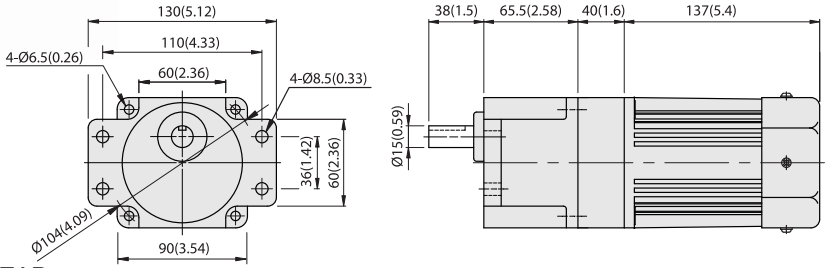


MODEL	GEAR RATIO	WEIGHT		BOLT
		kg	lb	
E9VK□B	1/3~1/200	1.5	3.3	M6x95
E9WK□B	1/3~1/200	1.6	3.5	M6xL25



KEY SIZE

E9WK□B + E9V10D + E9I120P□H



RATED TORQUE OF GEARHEAD

MODEL	Speed(rpm)		500	300	200	120	100	60	50	30	20	15	10	9	6	5	3	2	1
	Ratio	50Hz	3	5	7.5	12.5	15	25	30	50	75	100	150	166.7	250	300	500	750	1500
		60Hz	3.6	6	9	15	18	30	36	60	90	120	180	200	300	360	600	900	1800
E9VK□B		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
E9WK□B		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
E9V10D(DECIMAL)		oz-in	317	529	793	1191	1429	2154	2585	2777	2777	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.