



MOTOR MOUNTING INSTRUCTIONS

1

Double-check the motor and gearbox size.
Clean the mounting surface.

2

a. Remove the motor key.
b. Insert balance key.

3

Check motor shaft size and insert bushing.

4

Set at vertical position. Tighten the mounting bolts (including washer) in 1~4 order with wrench to 5% specified torque. (See Table 1).

Correct installation.

When installing the bushing, be sure to align the collet gap perpendicular to set screw.

5

Tighten the set screw with torque wrench to specified torque (See Table 2)

6

Tighten the mounting bolts in 1~4 order with torque wrench to specified torque. (See Table 1).

Table1 Tightening Torque Recommended for Motor Mounting Bolt

Bolt Size	Width Across Flats	Strength 8.8 Tightening Torque		Strength 10.9 Tightening Torque		Strength 12.9 Tightening Torque	
	[mm]	[Nm]	[In-lbs]	[Nm]	[In-lbs]	[Nm]	[In-lbs]
M3 x 0.5P	2.5	1.3	12	1.8	16	2.1	19
M4 x 0.7P	3	3	27	4.1	37	4.9	44
M5 x 0.8P	4	6.1	55	8.2	73	9.8	87
M6 x 1P	5	11	98	14	124	17	151
M8 x 1.25P	6	25	222	34	302	41	364
M10 x 1.5P	8	49	434	67	594	80	709
M12 x 1.75P	10	85	753	116	1028	139	1232
M14 x 2P	12	137	1214	186	1648	223	1976
M16 x 2P	14	210	1860	286	2534	343	3038

Table2 Tightening Torque Recommended for Set collar Bolt

Gearbox Size		Motor Shaft Dia.	Bolt Size	Width Across Flats	Tightening Torque	
		[mm]	[mm]	[mm]	[Nm]	[In-lbs]
PE050 PG040 PN023 PB060	1 stage	≤12	M6 x 1P x 8L	3	5.6	50
	2 stage	≤12	M6 x 1P x 8L	3	5.6	50
PE070 PG060 PN034 PB090	1 stage	≤16	M8 x 1.25P x 10L	4	9.5	85
	2 stage	≤16	M8 x 1.25P x 10L	4	9.5	85
PE090 PG080 / PG080A PN042 PB115	1 stage	≤24	M10 x 1.5P x 12L	5	23	205
	2 stage	≤24	M10 x 1.5P x 12L	5	23	205
PE120 PG120 / PG120A PN056 PB142	1 stage	≤32	M12 x 1.75P x 16L	6	45	400
	2 stage	≤32	M12 x 1.75P x 16L	6	45	400
PE155 PG160 PN075	1 stage	≤38	M16 x 2P x 20L	8	78	693
	2 stage	≤38	M16 x 2P x 20L	8	78	693

Note: Holding torques must be bigger than values shown above. Bolts can be tightened up to 20% higher for increased holding torques.



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APEX-2007-06-27V