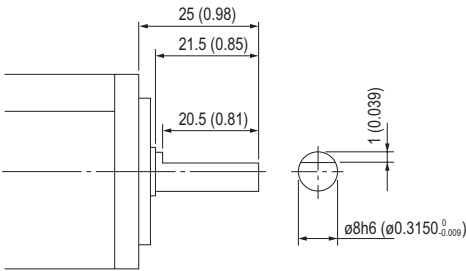


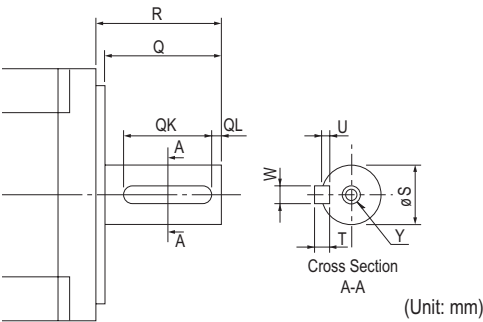
MR-J3 Motor Shaft Details and Servo Motor Dimensions

HF-KP / HF-MP Series: D-Cut Shaft (50W & 100W Motors Only)



Unit: mm (inch)

Keyway With Key Included



Motor Model	Capacity (W)	Variable Dimensions								
		T	S	R	Q	W	QK	QL	U	Y
HF-KP_K HF-MP_K	200, 400	5 (0.20)	14h6 (0.554)	30 (1.18)	27 (1.06)	5 (0.20)	20 (0.79)	3 (0.12)	3 (0.12)	M4 Depth 15 (0.59)
	750	6 (0.24)	19h6 (0.7480)	40 (1.57)	37 (1.46)	6 (0.24)	25 (0.98)	5 (0.20)	3.5 (0.14)	M5 Depth 20 (0.79)

HF-SP / HF-JP / HC-LP / HC-RP/ HC-UP / HA-LP Series

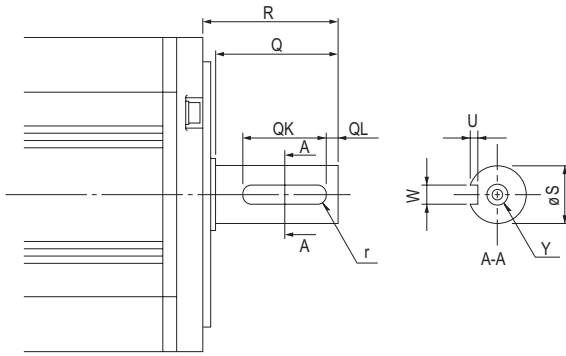


Figure A

(Unit: mm)

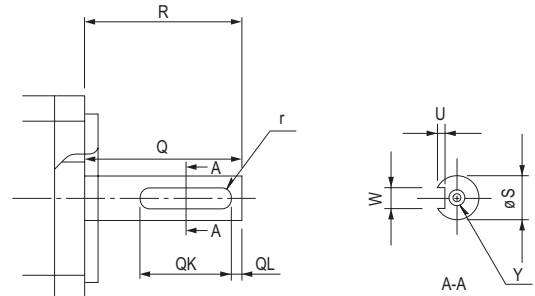


Figure B

(Unit: mm)

Keyway With No Key Supplied (Customer must supply key or order key part separately below)

Motor Model	Capacity (kW)	Variable Dimensions mm (in)										Fig.	Key Dimensions	Key Model Number	Stocked Item
		S	R	Q	W	QK	QL	U	r	Y					
HF-SP_K HC-LP_K	0.5~1.5	24h6 (0.9449 ⁰ _{-0.0005})	55 (2.17)	50 (1.91)	8 ⁰ _{-0.036} (0.315 ⁰ _{-0.001})	36 (1.42)	5 (0.20)	4 ^{+0.2} ₀ (0.16 ^{+0.008} ₀)	4 (0.16)		M8 Depth 20 (0.79)	A	8x7x28	MTR KEY 8-7-28	S
	2.0~7.0	35h6 ^{+0.01} ₀ (1.3780 ⁰ _{-0.0004})	79 (3.11)	75 (2.95)	10 ⁰ _{-0.036} (0.394 ⁰ _{-0.001})	55 (2.17)	5 (0.20)	5 ^{+0.2} ₀ (0.20 ^{+0.008} ₀)	5 (0.20)				10x8x45	MTR KEY 10-8-45	S
HC-RP_K	1.0, 1.5, 2.0	24h6 (0.9449 ⁰ _{-0.0005})	45 (1.77)	40 (1.57)	8 ⁰ _{-0.036} (0.315 ⁰ _{-0.001})	25 (0.98)	5 (0.20)	4 ^{+0.2} ₀ (0.16 ^{+0.008} ₀)	4 (0.16)				8x7x16	MTR KEY 8-7-16	S
	3.5, 5.0	28h6 (1.1024 ⁰ _{-0.0005})	63 (2.48)	58 (2.28)	8 ⁰ _{-0.036} (0.315 ⁰ _{-0.001})	53 (2.09)	3 (0.12)	4 ^{+0.2} ₀ (0.16 ^{+0.008} ₀)	4 (0.16)				8x7x45	MTR KEY 8-7-45	S
HC-UP_K	0.75	22h6 (0.8661 ⁰ _{-0.0005})	55 (2.17)	50 (1.97)	6 ⁰ _{-0.036} (0.236 ⁰ _{-0.001})	42 (1.65)	3 (0.12)	3.5 ^{+0.1} ₀ (0.14 ^{+0.008} ₀)	3 (0.12)				6x6x36	MTR KEY 6-6-36	S
	1.5	28h6 (1.1024 ⁰ _{-0.0005})	55 (2.17)	50 (1.97)	8 ⁰ _{-0.036} (0.315 ⁰ _{-0.001})	40 (2.09)	3 (0.12)	4 ^{+0.2} ₀ (0.16 ^{+0.008} ₀)	4 (0.16)				8x7x36	MTR KEY 8-7-36	S
	2.0, 3.5, 5.0	35 ^{+0.1} ₀ (1.3780 ⁰ _{-0.0004})	65 (2.56)	60 (2.36)	10 ⁰ _{-0.036} (0.394 ⁰ _{-0.001})	50 (1.97)	5 (0.20)	5 ^{+0.2} ₀ (0.20 ^{+0.008} ₀)	5 (0.20)				10x8x45	MTR KEY 10-8-45	S
HF-JP_K	0.5~2.0	16h6 (1.1024 ⁰ _{-0.0005})	40 (1.57)	30 (1.18)	5 ⁰ _{-0.030}	25 (0.98)	2 (0.08)	3 ^{+0.1} ₀	2.5 (0.10)	M4	M8	A	-	-	-
	3.5, 5	28h6 (1.1024 ⁰ _{-0.0005})	55 (2.17)	50 (1.97)	8 ⁰ _{-0.036} (0.315 ⁰ _{-0.001})	36 (1.42)	5 (0.20)	4 ^{+0.2} ₀ (0.16 ^{+0.008} ₀)	4 (0.16)				8x7x28	MTR KEY 8-7-28	S
	7, 9	35 ^{+0.1} ₀ (1.3780 ⁰ _{-0.0004})	79 (3.11)	75 (2.95)	10 ⁰ _{-0.036} (0.394 ⁰ _{-0.001})	55 (2.17)	5 (0.20)	5 ^{+0.2} ₀ (0.20 ^{+0.008} ₀)	5 (0.20)				-	-	-
	11, 15	55M6 (2.1654 ^{+0.0012} _{-0.0006})	116 (4.57)	110 (4.33)	16 ⁰ _{-0.04} (0.63 ⁰ _{-0.002})	90 (3.54)	5 (0.20)	6 ^{+0.2} ₀ (0.24 ^{+0.008} ₀)	8 (0.31)	M10			-	-	-

Keyway With No Key Supplied (Customer must supply key)

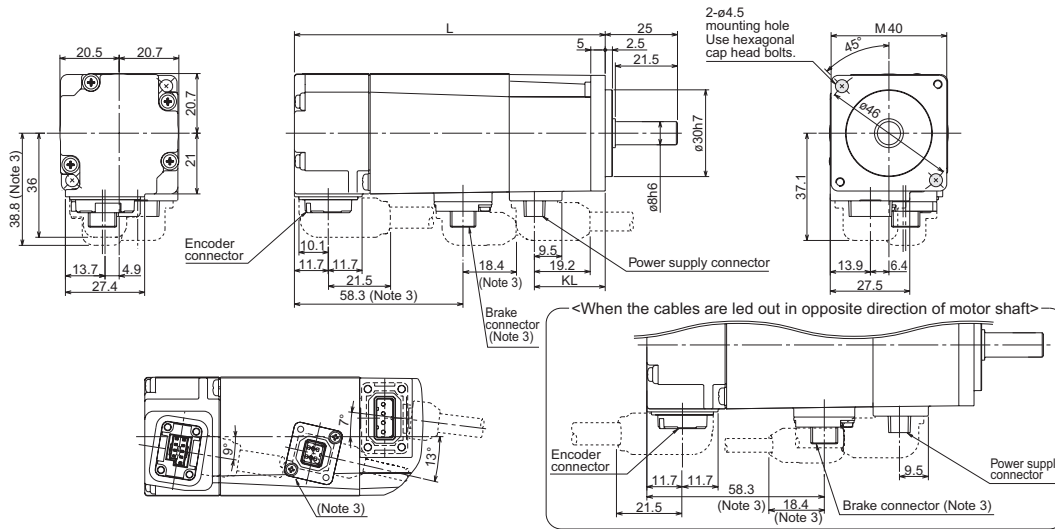
Motor Model (HA-LP_K)	Variable Dimensions mm (in)										Fig.	Key Model Number
	S	R	Q	W	QK	QL	U	r	Y			
601, 6014, 701M, 701M4, 502, 702, 11K2, 11K24	42h6 (1.6535 ⁰ _{-0.0005})	85 (3.35)	80 (3.15)	12 ⁰ _{-0.04} (0.47 ⁰ _{-0.002})	70 (2.76)	5 (0.20)	5 ^{+0.2} ₀ (0.2 ^{+0.008} ₀)	6 (0.24)			A	(N/A) Key to be supplied by customer.
801, 12K1, 8014, 12K14, 11K1M, 15K1M, 11K1M4, 15K1M4, 15K2, 22K2, 15K24, 22K24	55m6 (2.1654 ^{+0.0012} _{-0.0006})	110 (4.33)	100 (3.94)	16 ⁰ _{-0.04} (0.63 ⁰ _{-0.002})	90 (3.54)	5 (0.20)	6 ^{+0.2} ₀ (0.24 ^{+0.008} ₀)	8 (0.31)				
15K1, 20K1, 15K14, 20K14, 22K1M, 30K1M, 22K1M4, 30K1M4, 30K2, 37K2, 30K24, 37K24	60m6 (2.3622 ^{+0.0012} _{-0.0006})	140 (5.51)	140 (5.51)	18 ⁰ _{-0.04} (0.71 ⁰ _{-0.002})	128 (5.04)	6 (0.24)	7 ^{+0.2} ₀ (0.28 ^{+0.008} ₀)	9 (0.35)				
25K1, 30K1, 25K14, 30K14, 37K1M, 37K1M4, 45K1M4, 45K24, 55K24	65m6 (2.5591 ^{+0.0012} _{-0.0006})	140 (5.51)	140 (5.51)	18 ⁰ _{-0.04} (0.71 ⁰ _{-0.002})	128 (5.04)	6 (0.24)	7 ^{+0.2} ₀ (0.28 ^{+0.008} ₀)	9 (0.35)				
37K1, 37K14, 50K1M4	80m6 (3.1496 ⁰ _{-0.0006})	170 (6.69)	170 (6.69)	22 ⁰ _{-0.04} (0.87 ⁰ _{-0.002})	147 (5.79)	11 (0.43)	9 ^{+0.2} ₀ (0.35 ^{+0.008} ₀)	11 (0.43)			B	

Note: Not all key sizes are available to order from MEAU. If a key part is not listed, customer must supply.

HF-KP / HF-MP Series

HF-KP053(B), HF-KP13(B)
HF-MP053(B), HF-MP13(B)

(Unit: mm)



Power supply connector pin assignment

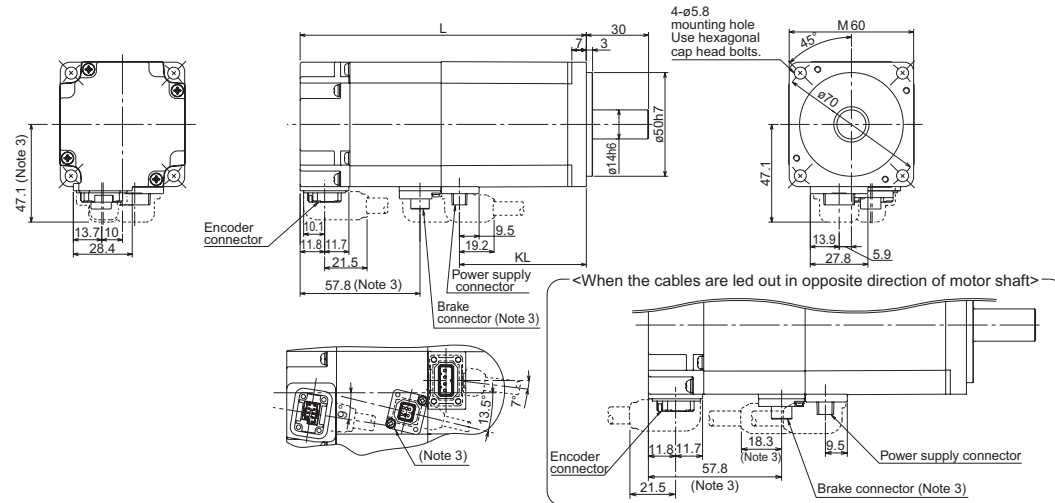
Pin No.	Signal name
1	Earth
2	U
3	V
4	W

Brake connector pin assignment (Note 3)

Pin No.	Signal name
1	B1
2	B2

HF-KP23(B), HF-KP43(B)
HF-MP23(B), HF-MP43(B)

(Unit: mm)



Power supply connector pin assignment

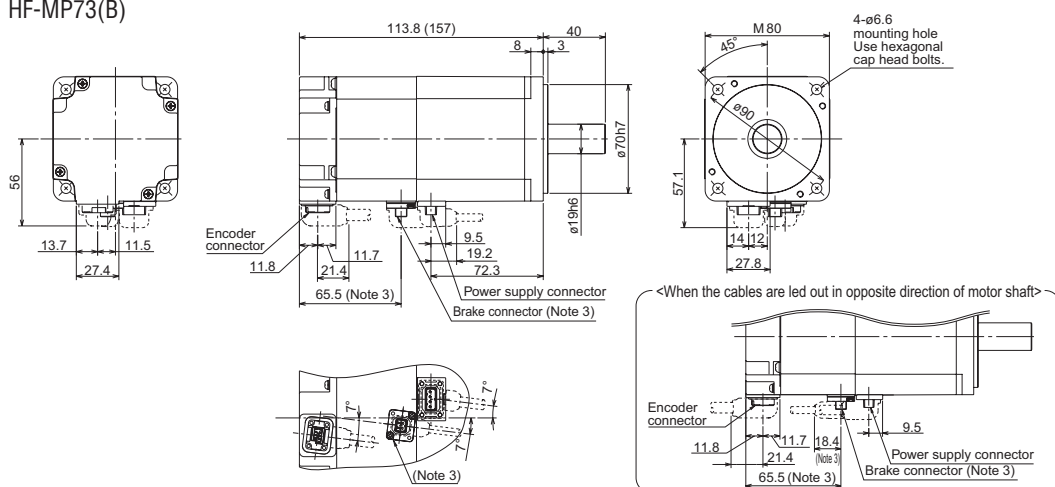
Pin No.	Signal name
1	Earth
2	U
3	V
4	W

Brake connector pin assignment (Note 3)

Pin No.	Signal name
1	B1
2	B2

HF-KP73(B)
HF-MP73(B)

(Unit: mm)



Power supply connector pin assignment

Pin No.	Signal name
1	Earth
2	U
3	V
4	W

Brake connector pin assignment (Note 3)

Pin No.	Signal name
1	B1
2	B2

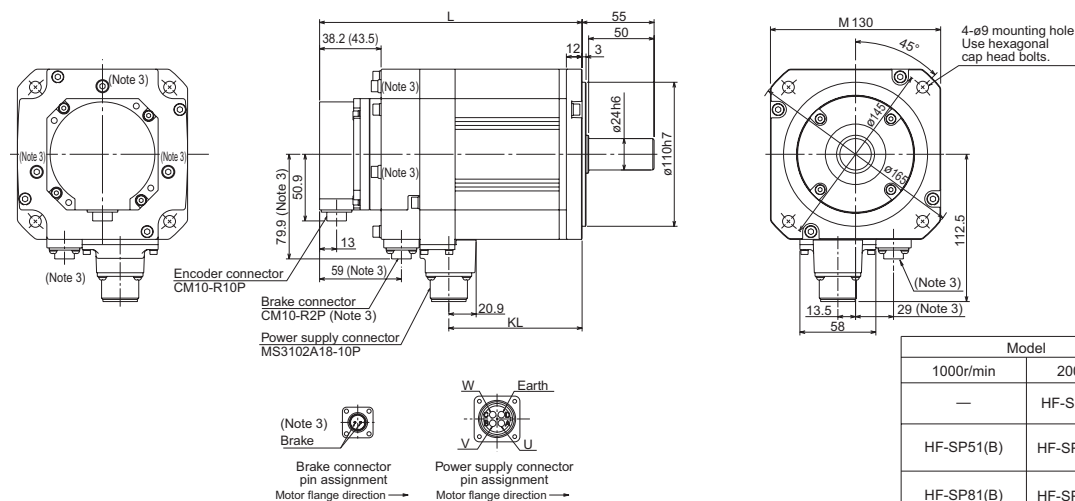
Notes:

1. Use a friction coupling to fasten a load.
2. Dimensions inside () are for the models with an electromagnetic brake.
3. Only for the models with an electromagnetic brake. The electromagnetic brake terminals (B1, B2) do not have the polarity.
4. For dimensions where there is no tolerance listed, use general tolerance.
5. Dimensions for motors with an oil seal (HF-MP_J and HF-KP_J) are different from the above. Contact Mitsubishi for details.

HF-SP Series

HF-SP51(B), HF-SP81(B)
HF-SP52(B) to HF-SP152(B), HF-SP524(B) to HF-SP152(B)

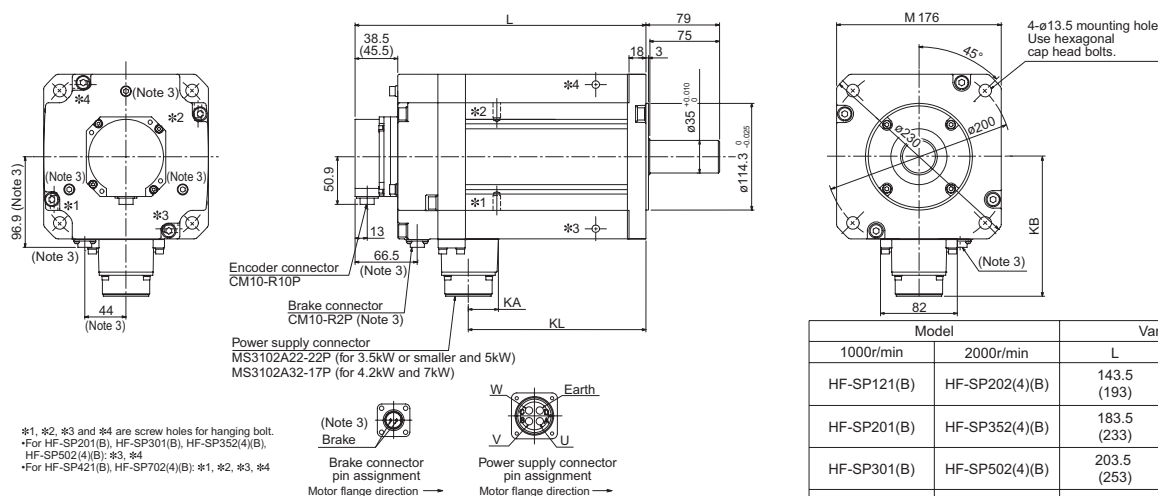
(Unit: mm)



Model		Variable dimensions	
1000r/min	2000r/min	L	KL
—	HF-SP52(4)(B)	118.5 (153)	57.8
HF-SP51(B)	HF-SP102(4)(B)	140.5 (175)	79.8
HF-SP81(B)	HF-SP152(4)(B)	162.5 (197)	101.8

HF-SP121(B) to HF-SP421(B)
HF-SP202(B) to HF-SP702(B), HF-SP2024(B) to HF-SP7024(B) HF-MP73(B)

(Unit: mm)



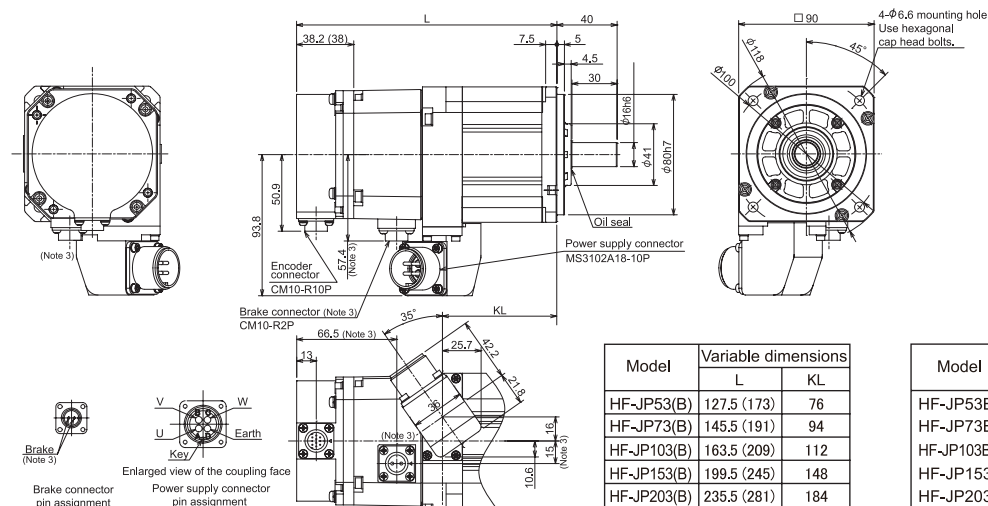
Model		Variable dimensions			
1000r/min	2000r/min	L	KL	KA	KB
HF-SP121(B)	HF-SP202(4)(B)	143.5 (193)	79.8	24.8	140.9
HF-SP201(B)	HF-SP352(4)(B)	183.5 (233)	119.8		
HF-SP301(B)	HF-SP502(4)(B)	203.5 (253)	139.8		
HF-SP421(B)	HF-SP702(4)(B)	263.5 (313)	191.8	32	149.1

Notes:

- Use a friction coupling to fasten a load.
- Dimensions inside () are for the models with an electromagnetic brake.
- Only for the models with an electromagnetic brake. The electromagnetic brake terminals do not have the polarity.
- For dimensions where there is no tolerance listed, use general tolerance.

HF-JP Series

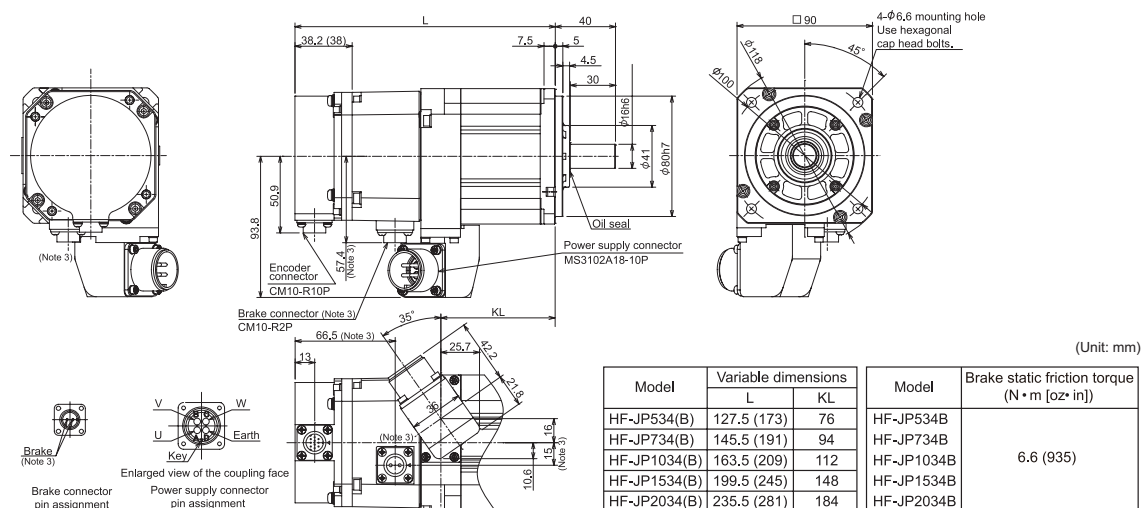
HF-JP53(B), HF-JP73(B), HF-JP103(B), HF-JP153(B), HF-JP203(B)



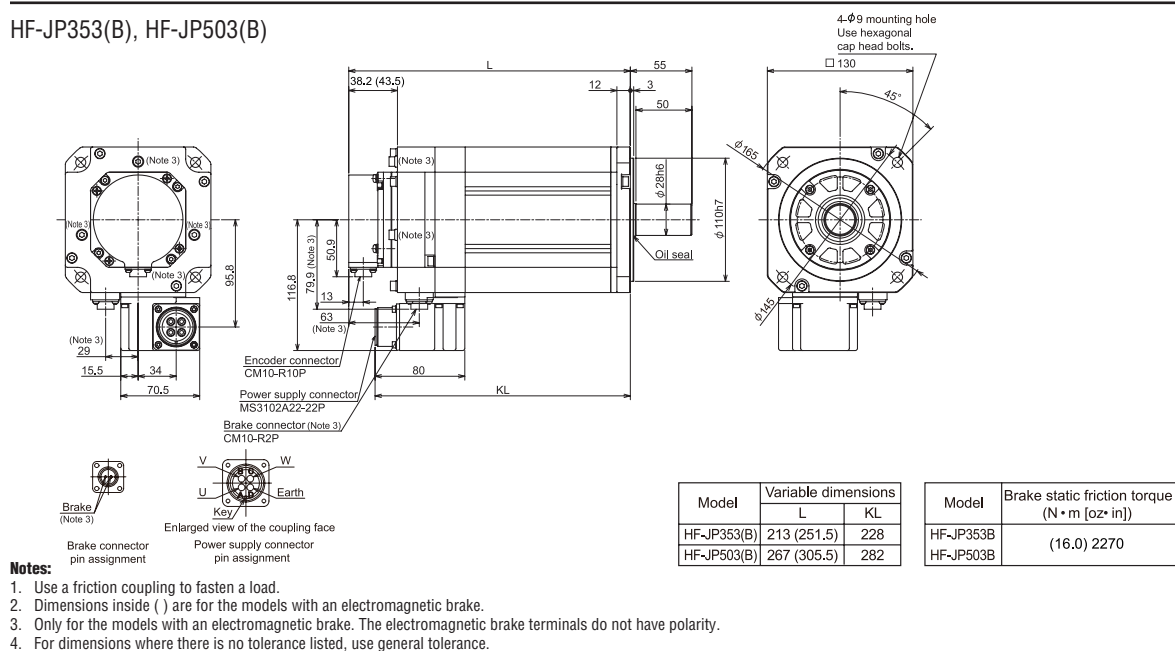
Model	Variable dimensions	
	L	KL
HF-JP53(B)	127.5 (173)	76
HF-JP73(B)	145.5 (191)	94
HF-JP103(B)	163.5 (209)	112
HF-JP153(B)	199.5 (245)	148
HF-JP203(B)	235.5 (281)	184

Model	Brake static friction torque (N · m [oz · in])
HF-JP53B HF-JP73B HF-JP103B HF-JP153B HF-JP203B	6.6 (935)

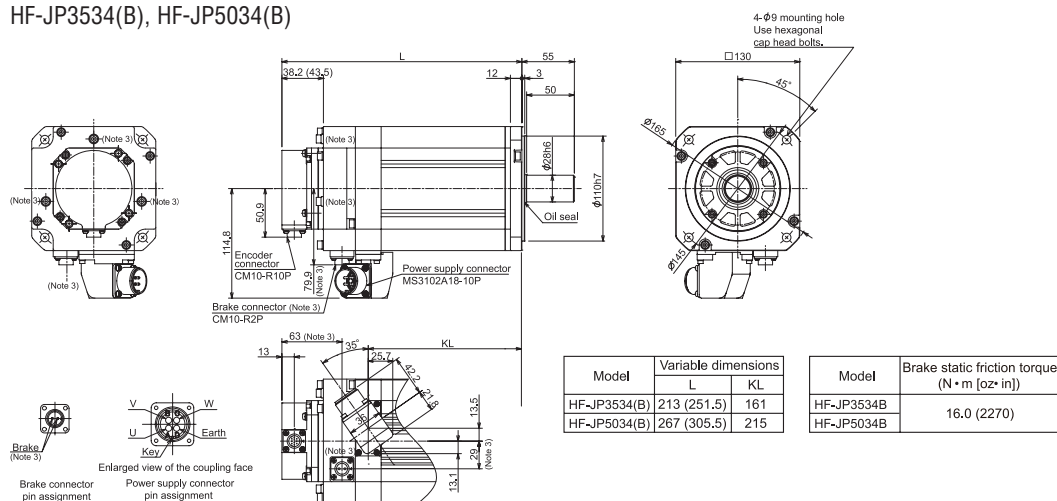
HF-JP534(B), HF-JP734(B), HF-JP1034(B), HF-JP1534(B), HF-JP2034(B)

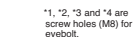


HF-JP353(B), HF-JP503(B)



HF-JP3534(B), HF-JP5034(B)



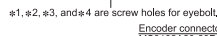


<Electromagnetic brake static friction torque>

Note: For detailed specification of the

1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 26

- Notes:**
1. Use a friction coupling to fasten a load.
 2. Dimensions inside () are for the models with an electromagnetic brake.
 3. Only for the models with an electromagnetic brake. The electromagnetic brake terminals do not have polarity.
 4. For dimensions where there is no tolerance listed, use general tolerance.
 5. For shaft end key way, and optional cables and connectors, refer to MELSERVO-J3 catalog (L(NA)03017-G).



Model	Brake static friction torque (N • m[oz • in])
HF-JP11K1MB HF-JP11K1M4B HF-JP15K1MB HF-JP15K1M4B	126 (17800)

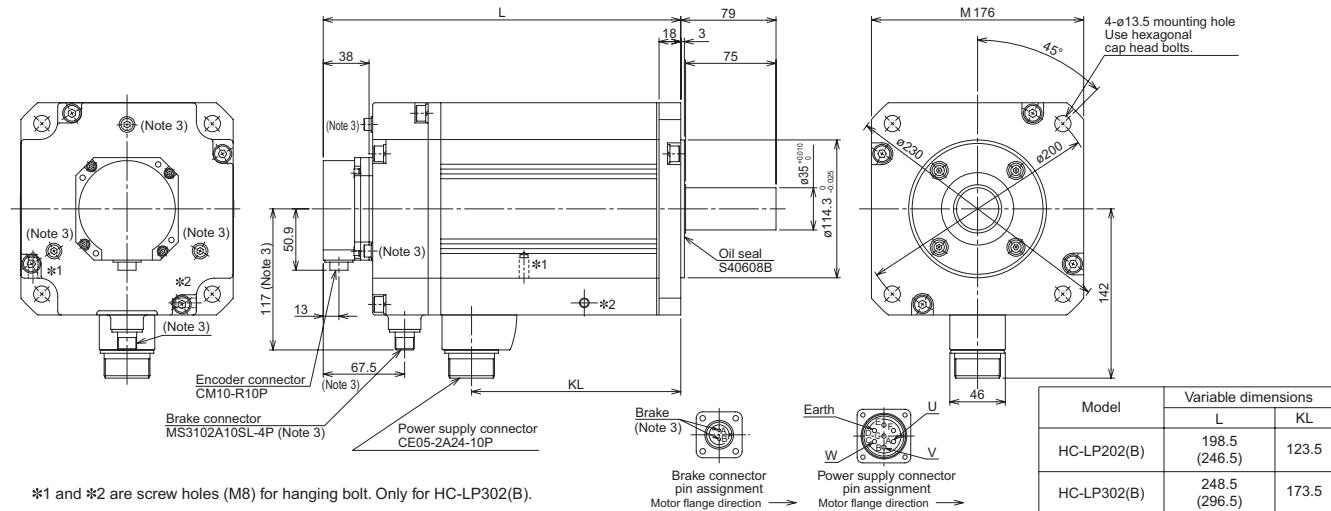
- Notes: 1. Use a friction coupling to fasten a load.
2. Dimensions inside () are for the models with an electromagnetic brake.
3. Only for the models with an electromagnetic brake. The electromagnetic brake terminals do not have polarity.
4. For dimensions where there is no tolerance listed, use general tolerance.

HC-LP52(B) to HC-LP152(B)



HC-LP202(B), HC-LP302(B)

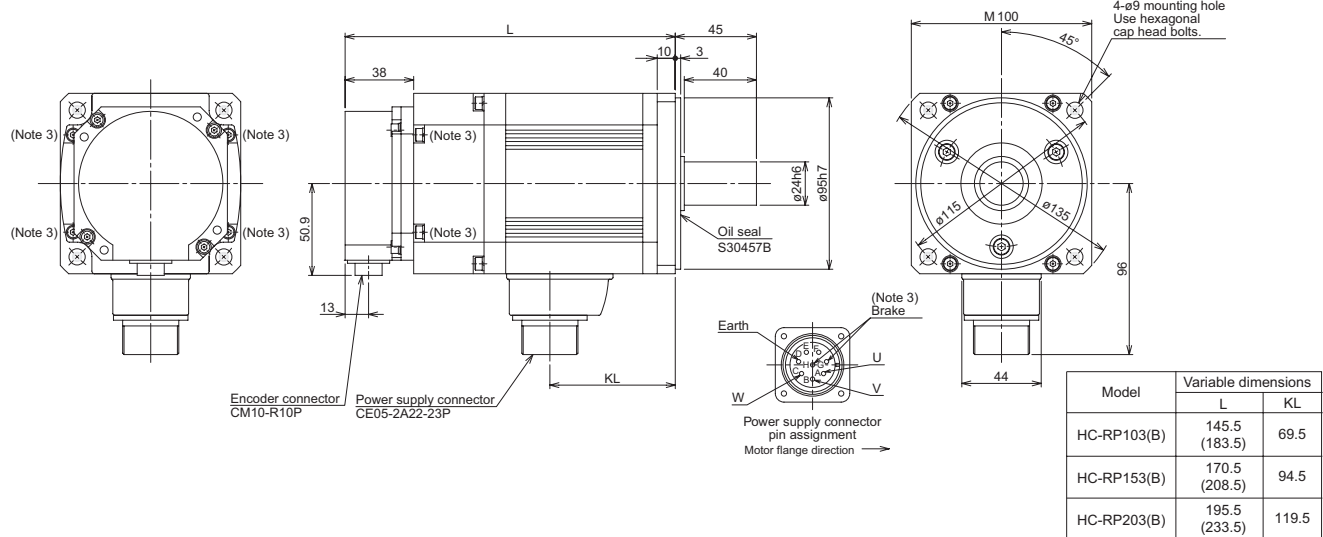
(Unit: mm)



HC-RP Series

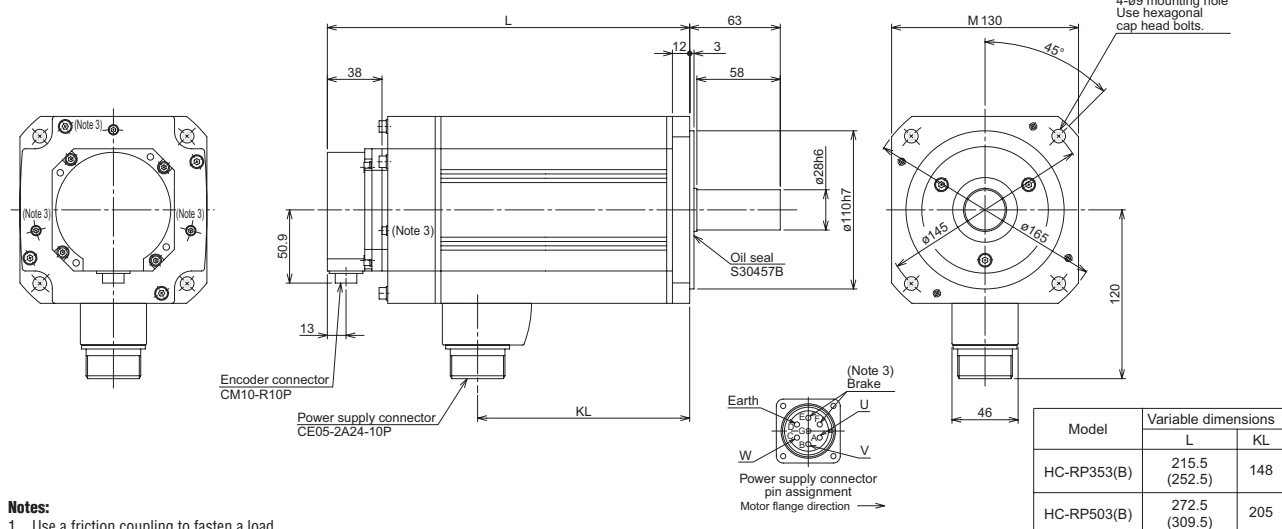
HC-RP103(B) to HC-RP203(B)

(Unit: mm)



HC-RP353(B), HC-RP503(B)

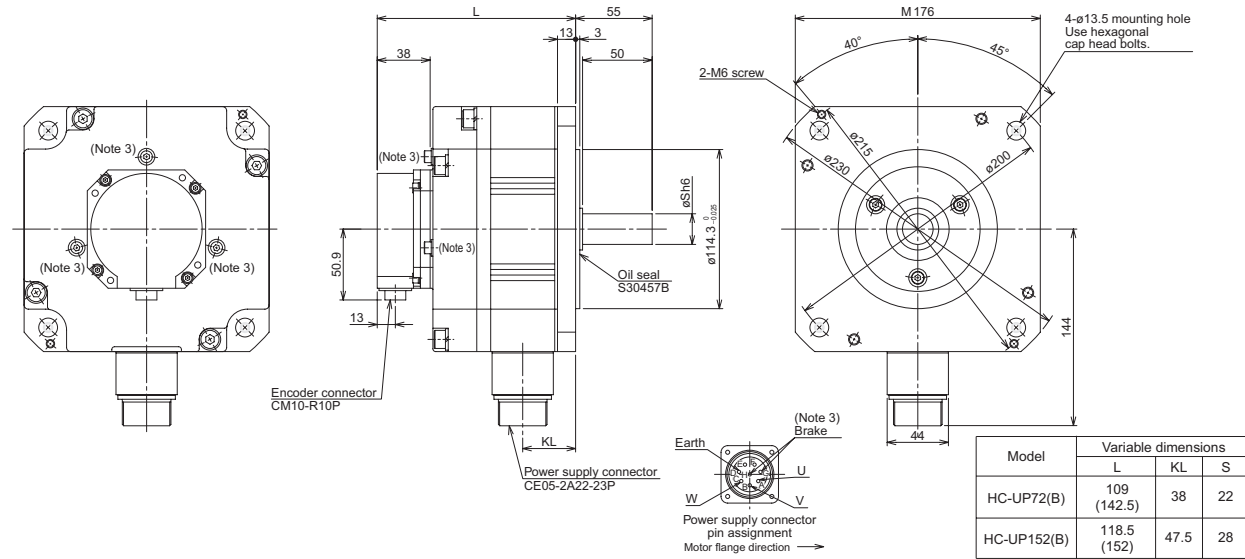
(Unit: mm)



HC-UP Series

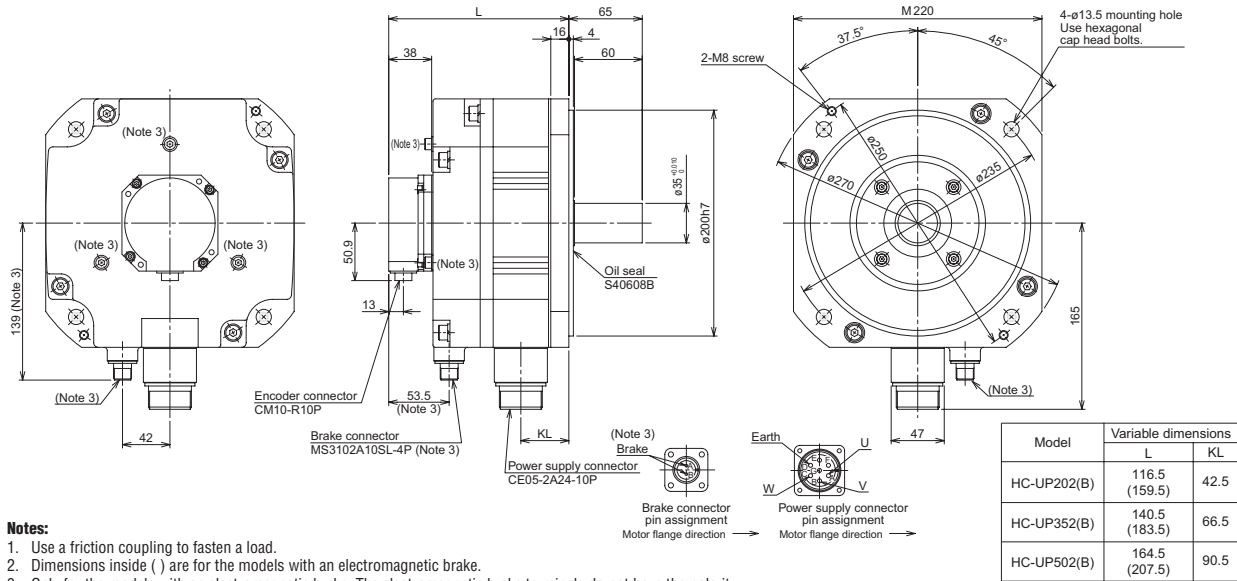
HC-UP72(B), HC-UP152(B)

(Unit: mm)



HC-UP202(B) to HC-UP502(B)

(Unit: mm)



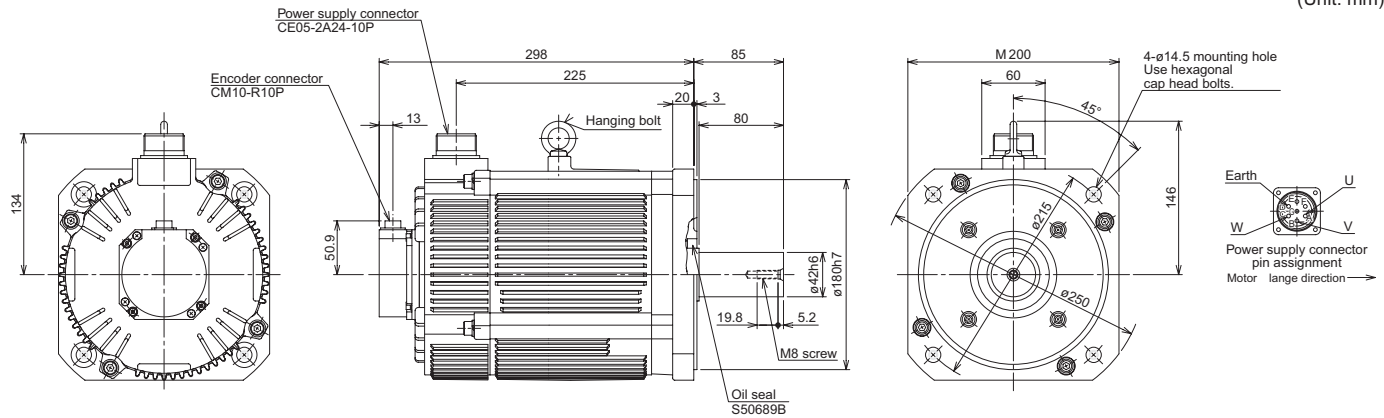
Notes:

1. Use a friction coupling to fasten a load.
2. Dimensions inside () are for the models with an electromagnetic brake.
3. Only for the models with an electromagnetic brake. The electromagnetic brake terminals do not have the polarity.
4. For dimensions where there is no tolerance listed, use general tolerance.

HA-LP Series

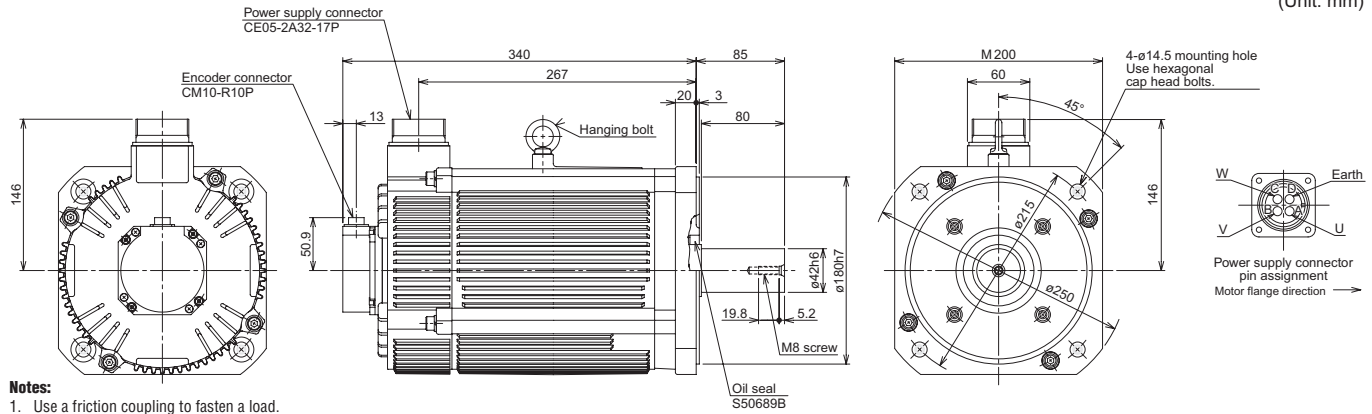
HA-LP502

(Unit: mm)



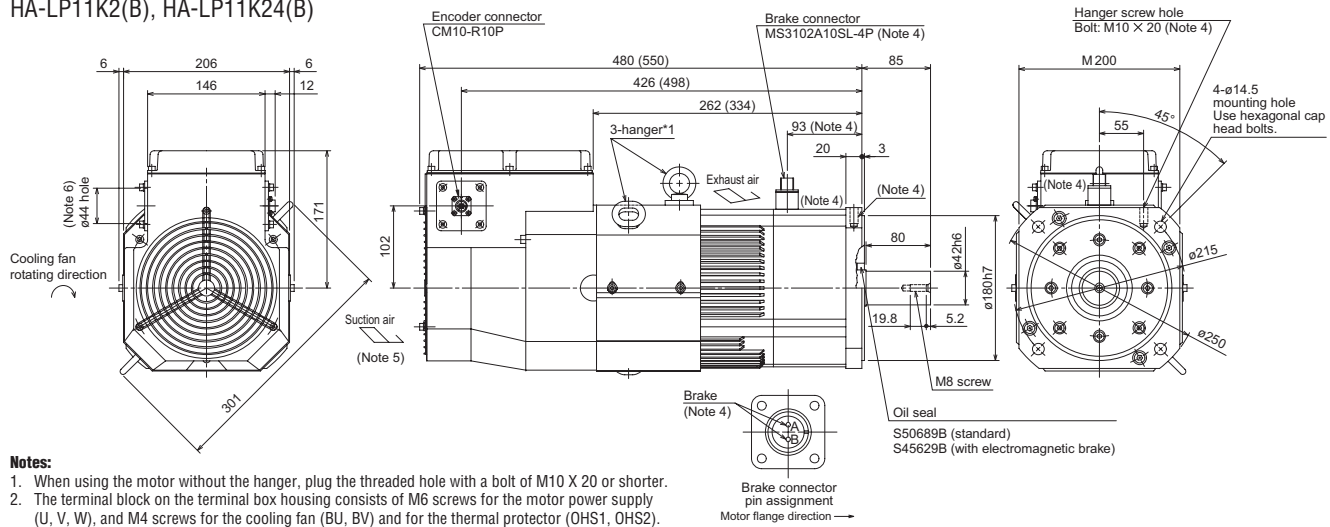
Notes:

1. Use a friction coupling to fasten a load.
2. For dimensions where there is no tolerance listed, use general tolerance.



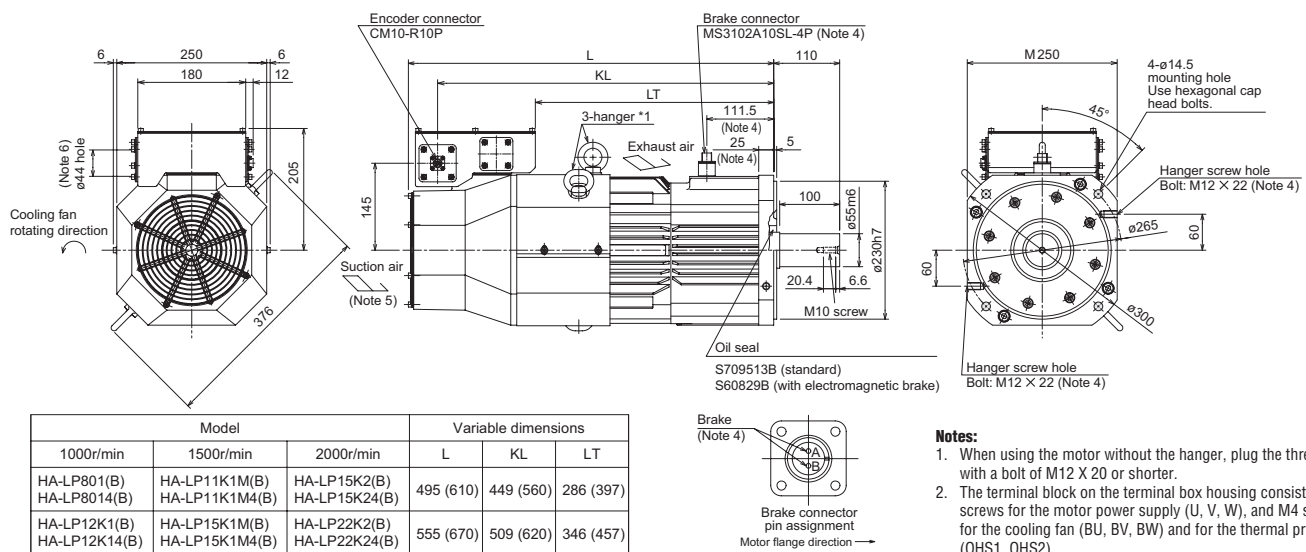
HA-LP601(B), HA-LP6014(B)
HA-LP701M(B), HA-LP701M4(B)
HA-LP11K2(B), HA-LP11K24(B)

(Unit: mm)



HA-LP801(B), HA-LP12K1(B), HA-LP8014(B) (*7), HA-LP12K14(B)
HA-LP11K1M(B), HA-LP15K1M(B), HA-LP11K1M4(B) (*7), HA-LP15K1M4(B)
HA-LP15K2(B), HA-LP22K2(B), HA-LP15K24(B), HA-LP22K24(B)

(Unit: mm)



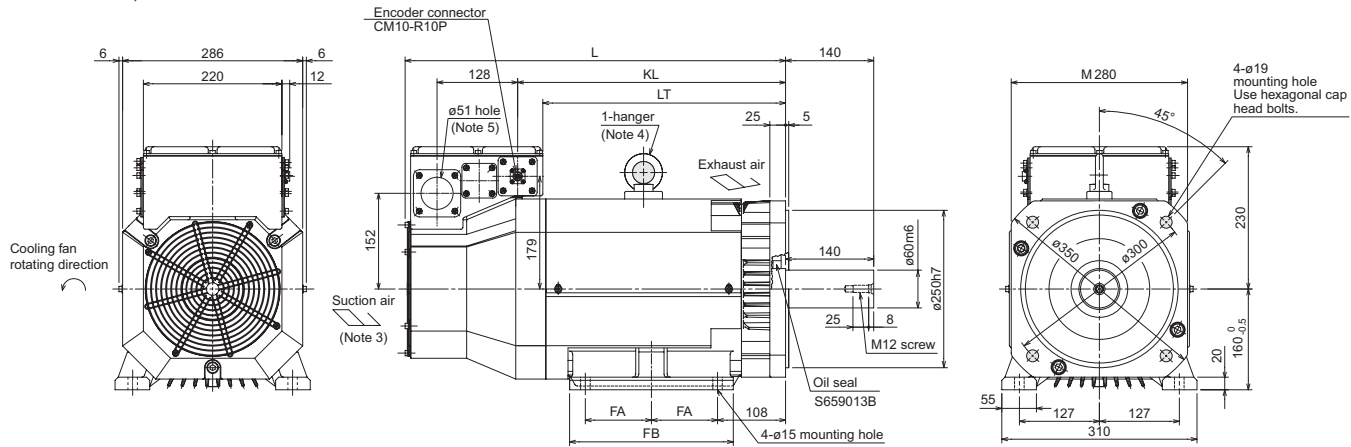
Model			Variable dimensions		
1000r/min	1500r/min	2000r/min	L	KL	LT
HA-LP801(B)	HA-LP11K1M(B)	HA-LP15K2(B)	495 (610)	449 (560)	286 (397)
HA-LP8014(B)	HA-LP11K1M4(B)	HA-LP15K24(B)			
HA-LP12K1(B)	HA-LP15K1M(B)	HA-LP22K2(B)	555 (670)	509 (620)	346 (457)
HA-LP12K14(B)	HA-LP15K1M4(B)	HA-LP22K24(B)			

Notes:

1. Use a friction coupling to fasten a load.
2. For dimensions where there is no tolerance listed, use general tolerance.
3. Dimensions inside () are for the models with an electromagnetic brake.
4. Only for the models with an electromagnetic brake. The electromagnetic brake terminals do not have polarity.
5. Leave a clearance of at least 100mm between the motor's suction side and wall.
6. Make sure that oil, water and dust, etc., will not enter the motor from the lead-in hole.
7. Contact your dealer for the delivery schedule or the compatible servo amplifier's software version.

HA-LP15K1, HA-LP20K1, HA-LP15K14, HA-LP20K14 (*7)
HA-LP22K1M, HA-LP22K1M4 (*7), HA-LP30K1M4
HA-LP30K24, HA-LP37K24

(Unit: mm)

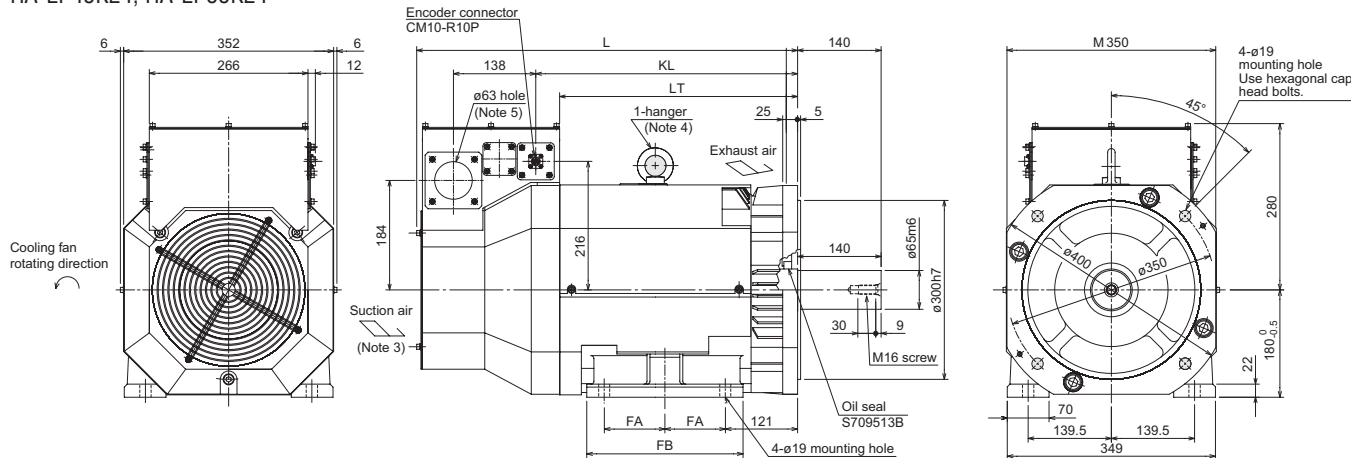


* The terminal block on the terminal box housing consists of M8 screws for the motor power supply (U, V, W), and M4 screws for the cooling fan (FA, BV, BW) and for the thermal protector (OHS1, OHS2).

Model			Variable dimensions				
1000r/min	1500r/min	2000r/min	L	KL	LT	FA	FB
HA-LP15K1 HA-LP15K14	HA-LP22K1M HA-LP22K1M4	HA-LP30K24	605	426	386	105	260
HA-LP20K1 HA-LP20K14	HA-LP30K1M4	HA-LP37K24	650	471	431	127	304

HA-LP25K1, HA-LP30K1, HA-LP25K14, HA-LP30K14
HA-LP37K1M, HA-LP37K1M4, HA-LP45K1M4
HA-LP45K24, HA-LP55K24

(Unit: mm)



* The terminal block on the terminal box housing consists of M10 screws for the motor power supply (U, V, W), and M4 screws for the cooling fan (BU, BV, BW) and for the thermal protector (OHS1, OHS2).

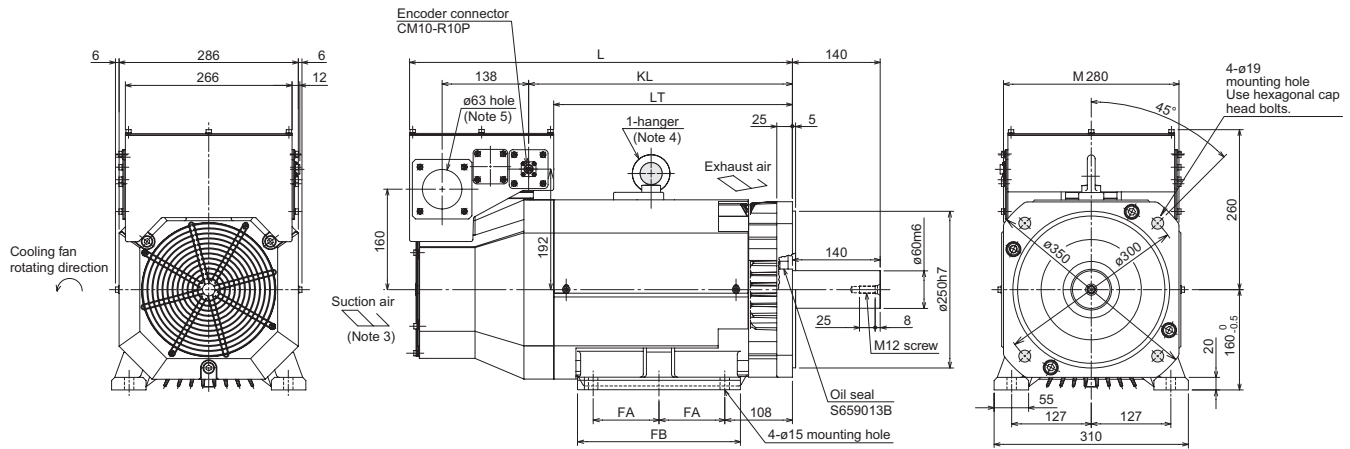
Model			Variable dimensions				
1000r/min	1500r/min	2000r/min	L	LT	KL	FA	FB
HA-LP25K1 HA-LP25K14	HA-LP37K1M HA-LP37K1M4	HA-LP45K24	640	399	439	101.5	262
HA-LP30K1 HA-LP30K14	HA-LP45K1M4	HA-LP55K24	685	444	484	120.5	300

Notes:

1. Use a friction coupling to fasten a load.
2. For dimensions where there is no tolerance listed, use general tolerance.
3. Leave a clearance of at least 150mm between the motor's suction side and wall.
4. When using the motor without the hanger, plug the threaded hole with a bolt of M16 X 20 or shorter.
5. Make sure that oil, water and dust, etc., will not enter the motor from the lead-in hole.
6. When mounting the motor with the shaft horizontal, fix the motor either with the feet or the flange, keeping the feet downward. Note that when fixing the motor with the flange, also fix the feet to support the motor.
7. Contact your dealer for the delivery schedule or the compatible servo amplifier's software version.

HA-LP30K1M
HA-LP30K2, HA-LP37K2

(Unit: mm)

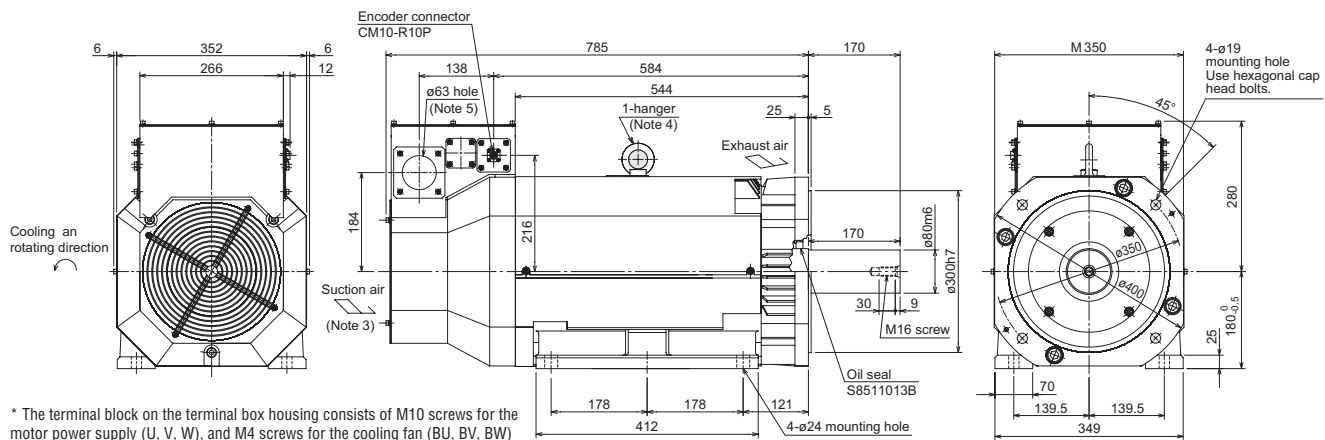


* The terminal block on the terminal box housing consists of M10 screws for the motor power supply (U, V, W), and M4 screws for the cooling fan (BU, BV, BW) and for the thermal protector (OHS1, OHS2).

Model		Variable dimensions					
1500r/min	2000r/min	L	LT	KL	FA	FB	
—	HA-LP30K2	615	381	421	105	260	
HA-LP30K1M	HA-LP37K2	660	426	466	127	304	

HA-LP37K1, HA-LP37K14
HA-LP50K1M4

(Unit: mm)



* The terminal block on the terminal box housing consists of M10 screws for the motor power supply (U, V, W), and M4 screws for the cooling fan (BU, BV, BW) and for the thermal protector (OHS1, OHS2).

Notes:

1. Use a friction coupling to fasten a load.
2. For dimensions where there is no tolerance listed, use general tolerance.
3. Leave a clearance of at least 150mm between the motor's suction side and wall.
4. When using the motor without the hanger, plug the threaded hole with a bolt of M16 X 20 or shorter.
5. Make sure that oil, water and dust, etc., will not enter the motor from the lead-in hole.
6. When mounting the motor with the shaft horizontal, fix the motor either with the feet or the flange, keeping the feet downward. Note that when fixing the motor with the flange, also fix the feet to support the motor.