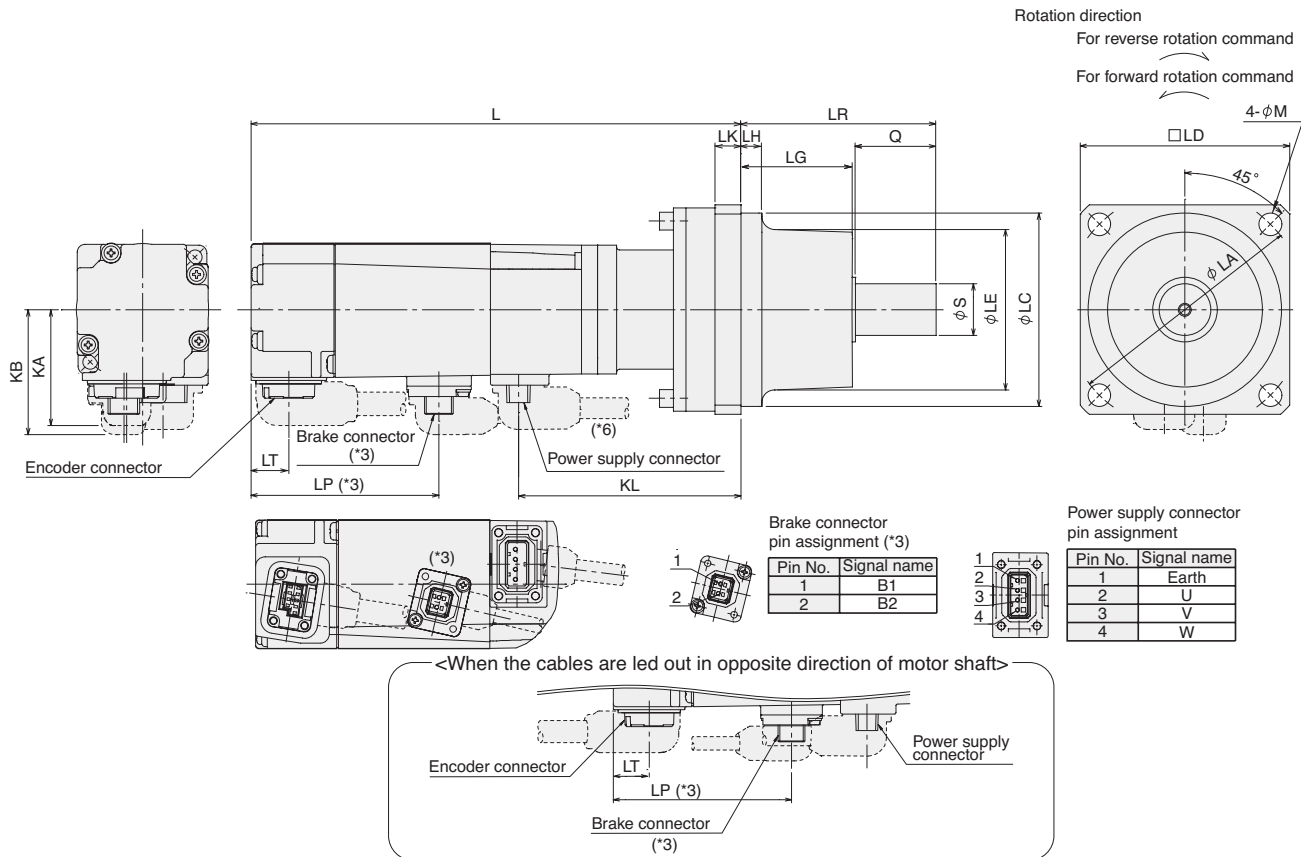


MR-JN Rotary HF-KP Series Geared Servo Motor Dimensions

HF-KP_(B)G1

The actual shapes of the mounting screws may differ.



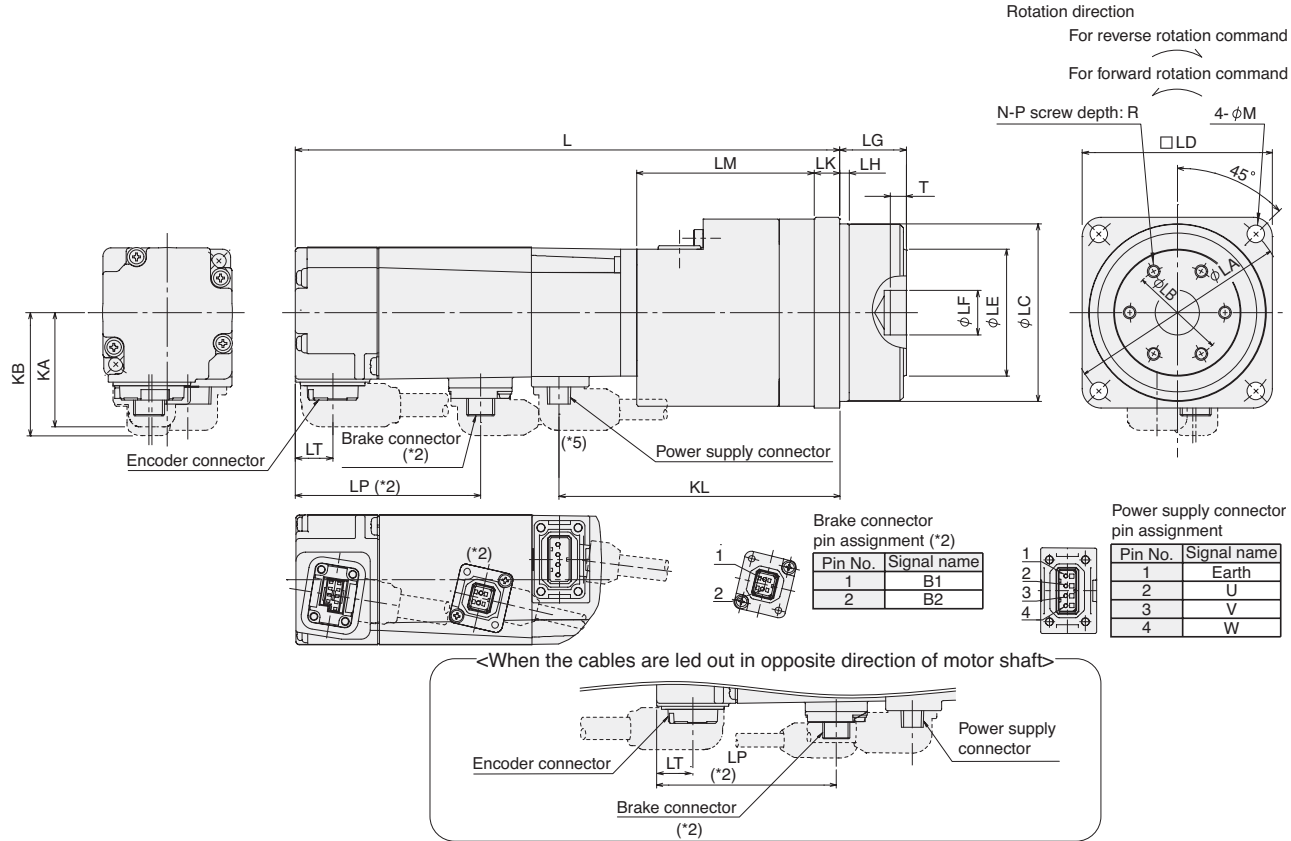
Model	Reduction Ratio (Actual Reduction Ratio)	Moment of Inertia		Variable Dimensions														Weight					
		J(x10 ⁻⁴ kg•m ²)	J(oz•in ²)	L	LA	LC	LD	LE	S	LH	LK	KL	LG	Q	LR	M	KA	KB	LT	LP	kg	lb	
HF-KP053(B)G1	1/5 (9/44)	0.089 (0.091)	0.487 (0.498)	110.9 (152)	75	60h7	65	50	16h6	6.5	8	69	34.5	25	60.5	7	36	37.1 (38.8)	11.7	-	(58.3)	1.4 (1.7)	3.1 (3.8)
	1/12 (49/576)	0.111 (0.113)	0.607 (0.618)	128 (170)								87										1.8 (2.1)	4.0 (4.7)
	1/20 (25/484)	0.093 (0.095)	0.508 (0.519)	126.9 (168)								85										1.6 (1.9)	3.6 (4.2)
HF-KP13(B)G1	1/5 (9/44)	0.125 (0.127)	0.683 (0.694)	126.9 (168)	100	82h7	90	73	25h6	8	10	85	38	35	74	9	46	47.1 (47.1)	11.8	-	(57.8)	1.6 (1.9)	3.6 (4.2)
	1/12 (49/576)	0.147 (0.149)	0.804 (0.815)	144.9 (186)								103										2.0 (2.3)	4.4 (5.1)
	1/20 (25/484)	0.129 (0.131)	0.705 (0.716)	142.9 (186)								103										2.0 (2.3)	4.4 (5.1)
HF-KP23(B)G1	1/5 (19/96)	0.400 (0.470)	2.19 (2.57)	130.1 (169.6)	100	82h7	90	73	25h6	8	10	92.8	38	35	74	9	46	47.1 (47.1)	11.8	-	(57.8)	3.3 (3.9)	7.3 (8.6)
	1/12 (25/288)	0.450 (0.520)	2.46 (2.84)	150.1 (189.6)								112.8										3.9 (4.5)	8.6 (10)
	1/20 (253/5000)	0.420 (0.490)	2.3 (2.68)	150.1 (189.6)								112.8										3.9 (4.5)	8.6 (10)
HF-KP43(B)G1	1/5 (19/96)	0.570 (0.650)	3.12 (3.55)	152 (191.5)	115	95h7	100	86	32h6	10	10	114.7	39	50	90	9	46	47.1 (47.1)	11.8	-	(57.8)	3.9 (4.4)	8.6 (9.7)
	1/12 (25/288)	0.620 (0.700)	3.39 (3.83)	172 (211.5)								134.7										4.5 (5.0)	10 (11)
	1/20 (253/5000)	0.930 (1.01)	5.08 (5.52)	175.5 (215)								138.2										5.6 (6.1)	13 (14)

Notes:

- Use a friction coupling to fasten a load.
- Dimensions inside () are for the models with electromagnetic brake.
- Only for the models with electromagnetic brake. The electromagnetic brake terminals (B1, B2) do not have polarity.
- The moments of inertia in the table are the values that are converted into motor shaft for the motor with reducer (and with electromagnetic brake).
- For dimensions where there is no tolerance listed, use general tolerance. The actual dimensions may be 1mm to 3mm larger than the dimensions listed since the outer frame of the reducer is made by casting. Design a machine in order to make allowances.
- Lead out the power supply cable in opposite direction of the motor shaft for the following Servo Motors: All gear ratios for HF-KP053(B)G1 and HF-KP13(B)G1

HF-KP_(B)G5

The actual shapes of the mountig screws may differ.

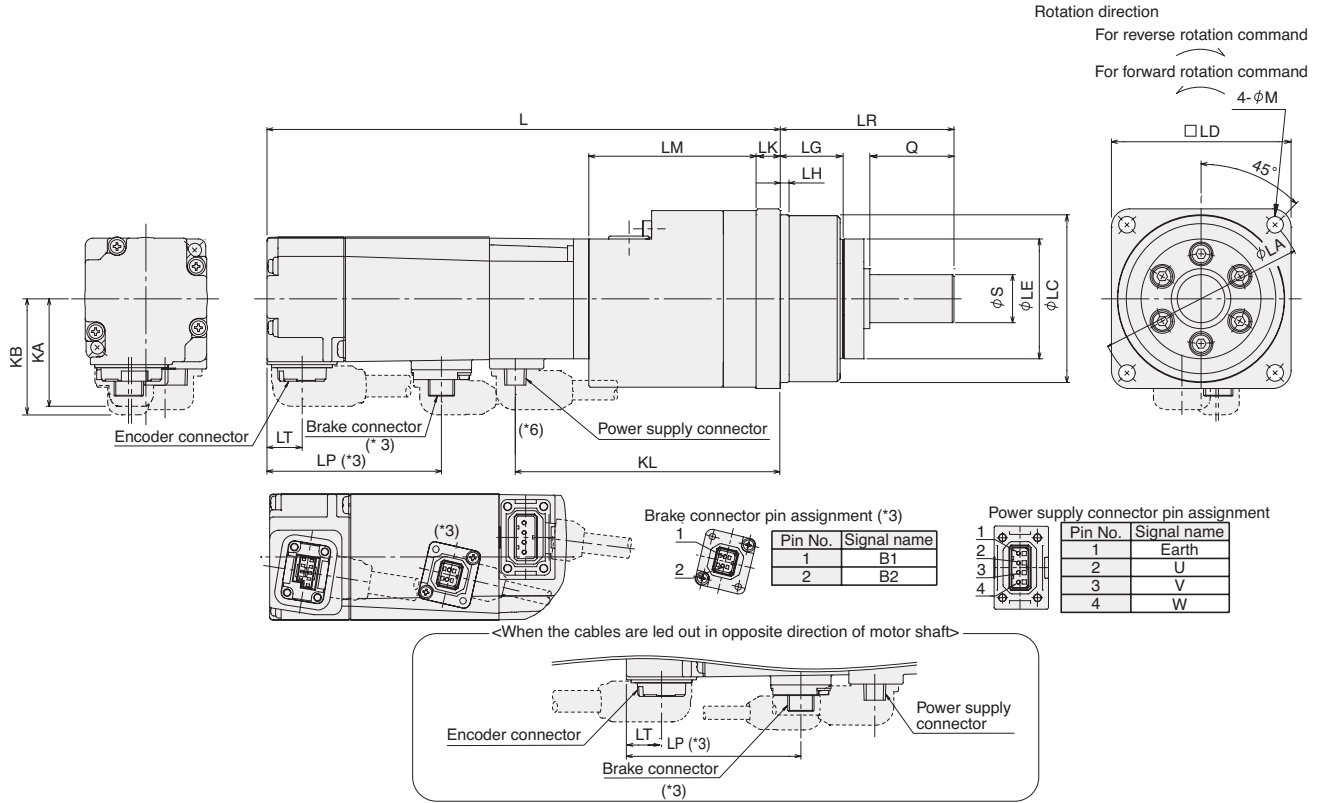


Model	Reduction Ratio (Actual Reduction Ratio)	Moment of Inertia		Variable Dimensions																	Weight						
		J(x10 ⁻⁴ kg·m ²)	J(oz·in ²)	L	LA	LB	LC	LD	LE	LF	LG	LH	LK	LM	KL	T	N	P	R	M	KA	KB	LT	LP	kg	lb	
HF-KP053(B)G5 (*5)	1/5	0.120 (0.122)	0.656 (0.667)	130.4 (171.5)	70	30	56h7	60	40	14H7	21 ^{+0.4} _{-0.5}	3	8	56	88.5	5	6	M4	7	5.5	36	37.1 (38.8)	11.7	-	(58.3)	1.1 (1.4)	2.5 (3.1)
	1/11	0.112 (0.114)	0.612 (0.623)																							1.2 (1.5)	2.7 (3.3)
	1/33	0.097 (0.099)	0.53 (0.514)																							1.3 (1.6)	2.9 (3.6)
	1/45	0.097 (0.099)	0.53 (0.514)																							1.4 (1.7)	3.1 (3.8)
HF-KP13(B)G5 (*5)	1/5	0.156 (0.158)	0.853 (0.864)	146.4 (187.5)	105	45	85h7	90	59	24H7	27 ^{+0.4} _{-0.5}	8	10	56.5	107	5	6	M6	10	9	46	47.1 (47.1)	11.8	-	(57.8)	1.3 (1.6)	2.9 (3.6)
	1/11	0.148 (0.150)	0.809 (0.82)																							1.4 (1.7)	3.1 (3.8)
	1/33	0.150 (0.152)	0.82 (0.831)																							2.6 (2.9)	5.8 (6.4)
	1/45	0.149 (0.151)	0.815 (0.826)																							3.4 (4.1)	7.5 (9.1)
HF-KP23(B)G5 (*5)	1/5	0.411 (0.511)	2.41 (2.79)	140.6 (180.1)	70	30	56h7	60	40	14H7	21 ^{+0.4} _{-0.5}	3	8	56	103.3	5	6	M4	7	5.5	46	47.1 (47.1)	11.8	-	(57.8)	1.8 (2.4)	4.0 (5.3)
	1/11	0.443 (0.513)	2.42 (2.80)																							1.9 (2.5)	4.2 (5.6)
	1/21	0.738 (0.808)	4.03 (4.42)																							3.4 (4.1)	7.5 (9.1)
	1/33	0.692 (0.762)	3.78 (4.17)																							2.3 (2.9)	5.1 (6.4)
HF-KP43(B)G5	1/5	0.621 (0.701)	3.4 (3.83)	162.5 (202)	70	30	56h7	60	40	14H7	21 ^{+0.4} _{-0.5}	3	8	56	125.2	5	6	M4	7	5.5	46	47.1 (47.1)	11.8	-	(57.8)	2.3 (2.9)	5.1 (6.4)
	1/11	0.996 (1.08)	5.45 (5.90)																							4.0 (4.6)	8.9 (11)
	1/21	0.918 (0.998)	5.02 (5.46)																							6.1 (6.7)	14 (15)
	1/33	0.970 (1.05)	5.3 (5.74)																								
	1/45	0.964 (1.04)	5.27 (5.69)	181.5 (221)	135	60	115h7	120	84	32H7	35 ^{+0.4} _{-0.5}	13	13	70	144.2												

- Notes:**
- Dimensions inside () are for the models with electromagnetic brake.
 - Only for the models with electromagnetic brake. The electromagnetic brake terminals (B1, B2) do not have polarity.
 - The moments of inertia in the table are the values that are converted into motor shaft for the motor with reducer (and with electromagnetic brake).
 - For dimensions where there is no tolerance listed, use general tolerance. The actual dimensions may be 1mm to 3mm larger than the dimensions listed since the outer frame of the reducer is made by casting. Design a machine in order to make allowances.
 - Lead out the power supply cable in opposite direction of the motor shaft for the following Servo Motors: All gear ratios for HF-KP053(B)G5 and HF-KP13(B)G5; Gear ratios of 1/21, 1/33 and 1/45 for HF-KP23(B)G5

HF-KP_(B)G7

The actual shapes of the mounting screws may differ.



Model	Reduction Ratio (Actual Reduction Ratio)	Moment of Inertia		Variable Dimensions															Weight					
		J(x10 ⁻⁴ kg·m ²)	J(oz·in ²)	L	LA	LC	LD	LE	S	LG	LH	Q	LR	LK	LM	KL	M	KA	KB	LT	LP	kg	lb	
HF-KP053(B)G7 (*6)	1/5	0.126 (0.128)	0.689 (0.70)	130.4 (171.5)	70	56h7	60	40	16h7	21	3	28	58	8	56	88.5	5.5	36	37.1 (38.8)	11.7	-	(58.3)	1.2 (1.5)	2.7 (3.3)
	1/11	0.113 (0.115)	0.618 (0.629)																				1.3 (1.6)	2.9 (3.6)
	1/21	0.103 (0.105)	0.563 (0.574)																				1.5 (1.8)	3.3 (4.0)
	1/33	0.097 (0.099)	0.53 (0.514)																				3.0 (3.3)	6.7 (7.3)
HF-KP13(B)G7 (*6)	1/5	0.162 (0.164)	0.886 (0.897)	146.4 (187.5)	105	85h7	90	59	25h7	27	8	42	80	10	56.5	107	9	46	47.1 (47.1)	11.8	-	(57.8)	1.4 (1.7)	3.1 (3.8)
	1/11	0.149 (0.151)	0.815 (0.826)																				1.5 (1.8)	3.3 (4.0)
	1/21	0.139 (0.141)	0.76 (0.771)																				3.0 (3.3)	6.7 (7.3)
	1/33	0.151 (0.153)	0.826 (0.837)																				3.8 (4.5)	8.4 (10)
HF-KP23(B)G7 (*6)	1/5	0.447 (0.517)	2.44 (2.83)	140.6 (180.1)	70	56h7	60	40	16h7	21	3	28	58	8	56	103.3	5.5	46	47.1 (47.1)	11.8	-	(57.8)	1.9 (2.5)	4.2 (5.6)
	1/11	0.443 (0.513)	2.42 (2.80)																				2.0 (2.6)	4.4 (5.8)
	1/21	0.740 (0.810)	4.05 (4.43)																				3.8 (4.5)	8.4 (10)
	1/33	0.693 (0.763)	3.79 (4.17)																				2.4 (3.0)	5.3 (6.7)
HF-KP43(B)G7	1/5	0.627 (0.707)	3.43 (3.87)	162.5 (202)	70	56h7	60	40	16h7	21	3	28	58	8	56	125.2	5.5	46	47.1 (47.1)	11.8	-	(57.8)	2.4 (3.0)	5.3 (6.7)
	1/11	1.00 (1.08)	5.47 (5.90)																				4.4 (5.0)	9.7 (11)
	1/21	0.920 (1.00)	5.03 (5.47)																				7.5 (8.1)	17 (18)
	1/33	0.976 (1.06)	5.3 (5.80)																				7.5 (8.1)	17 (18)
HF-KP43(B)G7	1/33	0.976 (1.06)	5.3 (5.80)	181.5 (221)	135	115h7	120	84	40h7	35	13	82	133	13	70	144.2	11	46	47.1 (47.1)	11.8	-	(57.8)	7.5 (8.1)	17 (18)
	1/45	0.967 (1.05)	5.29 (5.74)																				7.5 (8.1)	17 (18)

Notes:

- Use a friction coupling to fasten a load.
- Dimensions inside () are for the models with electromagnetic brake.
- Only for the models with electromagnetic brake. The electromagnetic brake terminals (B1, B2) do not have polarity.
- The moments of inertia in the table are the values that are converted into motor shaft for the motor with reducer (and with electromagnetic brake).
- For dimensions where there is no tolerance listed, use general tolerance. The actual dimensions may be 1mm to 3mm larger than the dimensions listed since the outer frame of the reducer is made by casting. Design a machine in order to make allowances.
- Lead out the power supply cable in opposite direction of the motor shaft for the following Servo Motors: All gear ratios for HF-KP053(B)G7 and HF-KP13(B)G7; Gear ratios of 1/21, 1/33 and 1/45 for HF-KP23(B)G7