

121-20G - Datasheet

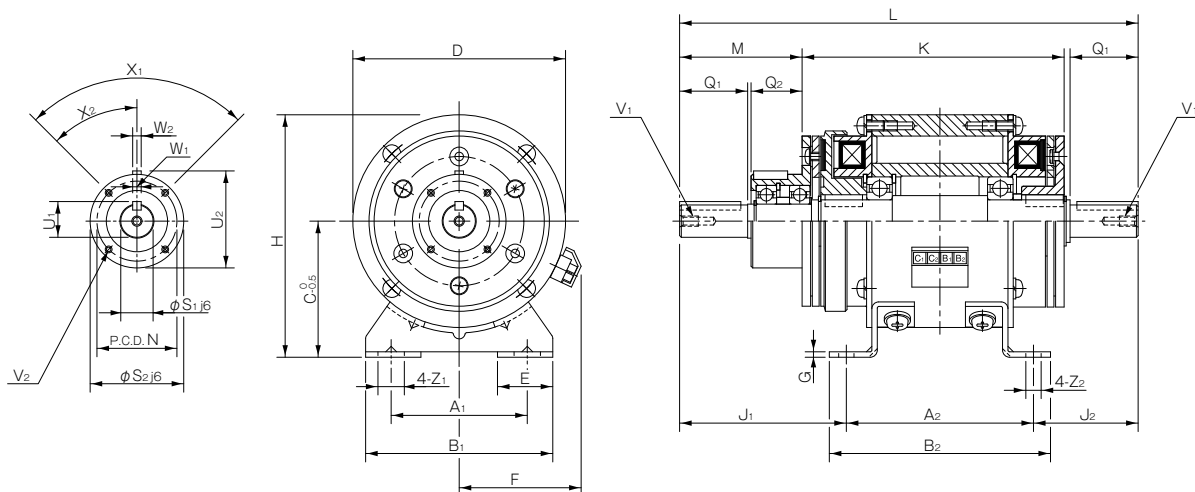
CLUTCH/BRAKE UNITS/Through-shaft construction, open-disc brake system type

Specifications

Model	Size	Dynamic friction torque Ta[N·m]	Static friction torque Ts[N·m]	Coil [at 20 °C]				Heat resistance class	Max. rotation speed [min ⁻¹]	Rotating part moment of inertia J [kg·m ²]	Total work performed until readjustment of the air gap Et [J]	Armature pull-in time ta [s]	Torque build-up time tp [s]	Torque decrease time td [s]	Mass [kg]
				Voltage [V]	Wattage [W]	Current [A]	Resistance [Ω]								
121-06-20G	06	5	5.5	DC24	11	0.46	52	B	3000	1.43 × 10 ⁻⁴	36 × 10 ⁶	C: 0.020 B: 0.015	C: 0.041 B: 0.033	C: 0.020 B: 0.015	1.5
121-08-20G	08	10	11	DC24	15	0.63	38	B	3000	4.23 × 10 ⁻⁴	60 × 10 ⁶	C: 0.023 B: 0.016	C: 0.051 B: 0.042	C: 0.030 B: 0.025	2.7
121-10-20G	10	20	22	DC24	20	0.83	29	B	3000	1.42 × 10 ⁻³	130 × 10 ⁶	C: 0.025 B: 0.018	C: 0.063 B: 0.056	C: 0.050 B: 0.030	5.5
121-12-20G	12	40	45	DC24	25	1.09	23	B	3000	4.18 × 10 ⁻³	250 × 10 ⁶	C: 0.040 B: 0.027	C: 0.115 B: 0.090	C: 0.065 B: 0.050	9.6
121-16-20G	16	80	90	DC24	35	1.46	16	B	3000	1.34 × 10 ⁻²	470 × 10 ⁶	C: 0.050 B: 0.035	C: 0.160 B: 0.127	C: 0.085 B: 0.055	18.5
121-20-20G	20	160	175	DC24	45	1.88	13	B	2500	4.13 × 10 ⁻²	10 × 10 ⁸	C: 0.090 B: 0.065	C: 0.250 B: 0.200	C: 0.130 B: 0.070	35
121-25-20G	25	320	350	DC24	60	2.50	9.6	B	2000	1.02 × 10 ⁻¹	20 × 10 ⁸	C: 0.115 B: 0.085	C: 0.335 B: 0.275	C: 0.210 B: 0.125	64

* The dynamic friction torque, Ta, is measured at a relative speed of 100 min⁻¹.

Dimensions



Unit [mm]

Size	Dimensions of part																Dimensions of shaft												
	A1	A2	B1	B2	C	D	E	F	G	H	J1	J2	K	L	M	N	Z1	Z2	Q1	Q2	S1	S2	U1	U2	V1	V2	X1	X2	W1,2
06	52.5	75	80	90	55	80	27.5	5.3	2.6	95	65.5	40.5	105.5	181	47	33	13.5	6.5	25	20	11	38	12.5	39.5	M4 × 0.7, length: 8	3-M4 × 0.7, length: 4	3-120°	60°	4
08	65	90	90	105	65	100	27.5	6.1	2.6	115	78.5	48.5	126.5	217	57	37	13.5	6.5	30	25	14	45	16	47	M4 × 0.7, length: 8	3-M4 × 0.7, length: 6	3-120°	60°	5
10	80	110	110	130	80	125	32.5	7.2	3.2	142.5	98	62	154	270	72	47	15.5	9	40	30	19	55	21	57	M6 × 1, length: 11	4-M4 × 0.7, length: 8	4-90°	45°	5
12	105	135	140	160	90	150	35	8.1	3.2	165	121	73.5	184	330	92	52	20	11.5	50	40	24	64	27	67	M6 × 1, length: 11	4-M4 × 0.7, length: 8	4-90°	45°	7
16	135	160	175	185	112	190	43	9.7	4.5	207	149	90	221	399	113	62	24.5	11.5	60	50	28	75	31	78	M6 × 1, length: 11	6-M5 × 0.8, length: 8	6-60°	30°	7
20	155	200	200	230	132	230	45	10.9	6	247	187	117	276	504	142	74.5	28	14	80	60	38	90	41.5	93.5	M10 × 1.5, length: 17	4-M6 × 1, length: 12	4-90°	45°	10
25	195	240	240	270	160	290	47.5	12.4	20	305	238	154	334	632	183	101.5	28	14	110	70	42	115	45.5	118.5	M10 × 1.5, length: 17	8-M6 × 1, length: 12	8-45°	22.5°	12

- The input/output shaft keyways are old JIS standard class 2 while the key is old JIS standard class 1.
- When inserting pulleys or the like onto input/output shafts, use the supplied insertion set.
- The 121-25-20G base is a casting.

How to Place an Order

121-06-20G

