



clutches and brakes 125-08-12N

URL: <https://www.sxplc.com/clutches-and-brakes-125-08-12n>

Product data sheet

clutches and brakes 125-08-12N

Model	Size	Dyna mic friction torque Td [N·m]	Static friction torque Ts [N·m]	Coil (at 20°C)				Heat resistance class	Max. rotation speed [n ⁻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 [s]	Torque build-up time [s]	Torque decay time [s]	Mass [kg]
				Voltage [V]	Power [W]	Current [A]	Resistance [Ω]								
125-05-12G	05	2.4	□	24 DC	10	0.42	58	B	3000	2.4×10 ⁻⁵	C: 0.012/B: 0.010	C: 0.031/B: 0.023	C: 0.040/B: 0.012	1.2	

											6					
125-0 6-12G	06	5	5.5	24 DC	11	0.46	52	B	3000	1.28× 10 ⁻⁴	36×1 0 ⁶	C: 0.0 20/B: 0.015	C: 0.0 41/B: 0.033	C: 0.0 20/B: 0.015	2.1	
125-0 8-12G	08	10	11	24 DC	15	0.63	38	B	3000	3.70× 10 ⁻⁴	60×1 0 ⁶	C: 0.0 23/B: 0.016	C: 0.0 51/B: 0.042	C: 0.0 30/B: 0.025	4.2	
125-1 0-12G	10	20	22	24 DC	20	0.83	29	B	3000	1.40× 10 ⁻³	130× 10 ⁶	C: 0.0 25/B: 0.018	C: 0.0 63/B: 0.056	C: 0.0 50/B: 0.030	6.8	
125-1 2-12G	12	40	45	24 DC	25	1.04	23	B	3000	3.85× 10 ⁻³	250× 10 ⁶	C: 0.0 40/B: 0.027	C: 0.1 15/B: 0.090	C: 0.0 65/B: 0.050	12	
125-1 6-12G	16	80	90	24 DC	35	1.46	16	B	3000	1.35× 10 ⁻²	470× 10 ⁶	C: 0.0 50/B: 0.035	C: 0.1 60/B: 0.127	C: 0.0 85/B: 0.055	22	

*The dynamic friction torque, T_d, is measured at a relative speed of 100 min⁻¹. Depending on the initial torque characteristics, break-in to condition the engaging surfaces may also be required.

[Dimensions]

125-05-12G

[Dimensions]

125-□-12G

Unit □mm□

Size	Dimensions of part															Dimensions of shaft					
	A1	A2	B1	B2	C	D	E	F	G	H	J	K	L	Z1	Z2	Q	S	U	V	W	
06	65	90	90	105	65	100	27.5	61	2.6	115	48.5	132	187	13.5	6.5	25	11	12.5	M4×	4	
																			0.7,	length:	8
08	80	110	110	130	80	125	32.5	72	3.2	142.	63	171	236	15.5	9	30	14	16	M4×	5	
										5									0.7,	length:	8
10	105	135	140	160	90	150	35	81	3.2	165	80	210	295	20	11.5	40	19	21	M6×	5	
																			1, length:	11	

12	135	160	175	185	112	190	42.5	97	4.5	207	108	270	376	24.5	11.5	50	24	27	M6×	7	
																				1, le	
																				ngth	
																				: 11	
16	155	200	200	230	132	230	45	109	6	247	145	362	490	28	14	60	28	31	M6×	7	
																				1, le	
																				ngth	
																				: 11	

*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.

125-□-12EG,*Made to order

[Specifications]

Model	Size	Dyna mic fri ction t orque Td [N □m]	Static frictio n torq ue Ts [N□m □]	Coil (at 20°C)				Heat r esista nce class	Max. r otatio n speed □ mi n ⁻¹ □	Rotati ng part mome nt of inertia J □kg□ m ² □	Total work perfor med until r eadju stmen t of the air gap ET □□	Armat ure pull-in time tp [s]	Torqu e rise time tp [s]	Torqu e exti nction time td [s]	Mass □kg□
				Voltag e [V]	Watta ge [W]	Curre nt [A]	Resist ance □□								
125-0 6-12E G	06	5	5.5	24 DC	11	0.46	52	B	3000	1.28× 10 ⁻⁴	36×1 0 ⁶	C: 0.0 20/B: 0.015	C: 0.0 41/B: 0.033	C: 0.0 20/B: 0.015	2.1
125-0 8-12E G	08	10	11	24 DC	15	0.63	38	B	3000	3.70× 10 ⁻⁴	60×1 0 ⁶	C: 0.0 23/B: 0.016	C: 0.0 51/B: 0.042	C: 0.0 30/B: 0.025	4.2
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125-1 2-12E G	12	40	45	24 DC	25	1.04	23	B	3000	3.85× 10 ⁻³	250× 10 ⁶	C: 0.0 40/B: 0.027	C: 0.1 15/B: 0.090	C: 0.0 65/B: 0.050	12
125-1	16	80	90	24 DC	35	1.46	16	B	3000	1.35×	470×	C: 0.0	C: 0.1	C: 0.0	22

06	65	90	90	105	65	100	27.5	61	10	115	48.5	132	187	13.5	6.5	25	11	12.5	M4×	4	
																				0.7,	length: 8
08	80	110	110	130	80	125	32.5	72	12	142.	63	171	236	15.5	9	30	14	16	M4×	5	
										5										0.7,	length: 8
10	105	135	140	160	90	150	35	81	15	165	80	210	295	20	11.5	40	19	21	M6×	5	
																				1, length: 11	
12	135	160	175	185	112	190	42.5	97	15	207	108	270	376	24.5	11.5	50	24	27	M6×	7	
																				1, length: 11	
16	155	200	200	230	132	230	45	109	18	247	145	362	490	28	14	60	28	31	M6×	7	
																				1, length: 11	
20	195	240	240	270	160	290	47.5	124	20	305	188	448	616	28	14	80	38	41.5	M10	10	
																				×1.5, length: 17	

