

Specifications

Nominal Static Torque	No. of Friction Discs	Solenoid Size	Maximum solenoid Cycle Rate ^①	Thermal Capacity ^②	Inertia (Wk ²)
lb-ft (Nm)			cycles/min	hp-sec/min (watts)	lb-ft ² (kgm ² x 10 ⁻⁴)
10 (14)	1	5	30	17.5 (249)	.078 (32.76)
15 (20)	1	6	25	17.5 (249)	.078 (32.76)
25 (34)	1	6	25	17.5 (249)	.078 (32.76)
35 (47)	1	8	20	17.5 (249)	.078 (32.76)
50 (68)	2	6	25	17.5 (249)	.108 (45.36)
75 (102)	2	8	20	17.5 (249)	.108 (45.36)
105 (142)	3	8	20	17.5 (249)	.145 (60.90)

① Maximum solenoid cycle rate is based on ambient temperature of 72°F (22°C) with 50% duty cycle. Does not relate to brake cycle rate (see Thermal Capacity).

② Thermal capacity rating is based on ambient temperature of 72°F (22°C), stop time of one second or less, with no heat absorbed from motor. Derate thermal capacity by 25% for vertical mounting. Refer to Selection Procedure Section.

Brake set and release times in milliseconds, when brake and motor are switched separately (for T1/T2 definitions, see page 101):

Static Torque	Coil Size	T1	T2
10, 15, 25, 50	5 & 6	42	20
35, 75, 105	8	48	20

Current Ratings (amperes)

Coil Size	AC Current	Voltage: 60 Hz						Voltage: 50 Hz			Voltage: DC			
		115	200	230	400	460	575	110	220	380	24	95	115	230
5	Inrush	7.5	4.3	3.7	2.2	1.9	1.5	5.4	4.0	1.9	38.0	8.4	5.6	3.2
	Holding	.5	.3	.2	.1	.1	.09	.3	.25	.1	.5	.1	.08	.04
6	Inrush	13.0	7.5	6.5	3.7	3.2	2.6	9.4	5.6	3.2	42.8	11.7	8.5	3.7
	Holding	.6	.4	.3	.2	.2	.1	.5	.28	.2	.6	.2	.1	.06
8	Inrush	17.6	10.3	8.8	5.0	4.2	3.5	15.4	7.7	4.2	43.1	11.4	9.3	4.6
	Holding	1.2	.7	.6	.3	.3	.24	.1	.5	.3	.8	.2	.2	.09

Ordering and Identification Information

The following example and tables provide information for selecting the appropriate three-letter suffix when ordering a Stearns Brake.

Example of a complete part number:

1-087-732-01--FG — Lead wire position (external, left and right)
 |
 | 230 Vac
 |
 | Does not apply
 |
 | Hub bore and output shaft size 1.125

Hub Bore, Shaft and Keyway Sizes

9th Digit of Model Number	Dimensions in Inches (Dimensions in Millimeters)				
	Bore Dia. (X)	Keyway*	Shaft Dia. (U)	Keyway*	Shaft Length (AH)
1	1.125 1.126	.25 x .12 (6.35 x 3.18)	1.125 1.124	.25 x .12 (6.35 x 3.18)	2.62 (66.68)
	(28.575) (28.600)		(28.575) (28.550)		
3	1.375 1.376	.31 x .16 (7.94 x 3.97)	1.375 1.374	.31 x .16 (7.94 x 3.97)	3.12 (79.38)
	(34.925) (34.950)		(34.905) (34.950)		
5	1.625 1.626	.38 x .19 (9.52 x 4.76)	1.625 1.624	.38 x .19 (9.52 x 4.76)	3.75 (95.25)
	(41.275) (41.300)		(41.275) (41.250)		

For sizes other than those shown, contact factory.
 No motor frame adapters or foot mounting kit available.

*Keyseats made to ANSI B17.1 standard.

Standard AC Voltage Ratings

Character	Voltage	Hz
B	115	60
D	110	50
E	200	60
F	230 190	60 50
H	220	50
L	460 380	60 50
M	415	50
N	575	60
O	110/220	50
P	115/230	60
Q	230/460 230	60 50
R	200/400	60

Direct Current

Character	Voltage
T	12
U	24
V	36
W	48
X	95
Y	115
Z	230

Consult factory if other DC voltage is needed

Modifications are available- see SAB Modification Section