

# MAGNETIC PARTICLE BRAKES

**SDP/SI**

ZERO BACKLASH  
LOW INERTIA  
NO FRICTION SURFACE

PHONE: 516.328.3300 • FAX: 516.326.8827 • WWW.SDP-SI.COM

**> COIL DATA:**

**Voltage:** 24V DC

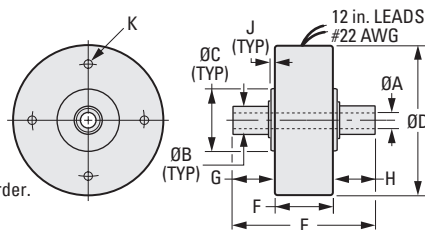
Voltagess other than 24 Volts DC available on special order.

**> APPLICATIONS:**

- Tensioning
- Controlled Stops
- Positioning
- Locking
- Motor Testing

The shaft becomes coupled to the housing with electrical excitation. The torque is proportional to the DC input current.

All models are available with the shaft on one end, on special order.



**INCH COMPONENT**

Catalog Number	A Dia. +.001 -.000	B Dia. ±.0002	C Dia. +.000 -.001	D Dia. ±.015	E ±.01	F ±.03	G ±.02	H ±.02	J ±.01	K
S90MPA-B28D37H38	.375	.4980	1.125	2.87	2.10	1.37	.47	.27	.08	3 ea. #6-32 on 2.000 B.C.
S90MPA-B34D50S	Solid	.4995	1.125	3.37	3.72	1.47	1.12	1.12	.09	4 ea. #10-32 on 3.000 B.C.
S90MPA-B34D50H38	.375	.4980			2.20		.47	.25		
**S90MPA-B45D75S	Solid	.7495	1.875	4.50	3.53	1.77	1.42	.33	.11	4 ea. #10-32 on 4.228 B.C.
S90MPA-B45D75H50	.501	.7480			2.63		.52			
S90MPA-B47D75S	Solid	.7495	1.875	4.71	3.53	1.77	1.41	.33	.11	4 ea. #10-32 on 4.228 B.C.
S90MPA-B47D75H50	.501	.7480			2.63		.52			

\*\* 3/16 keyway & flat, 90° oriented in respect to the keyway on the end of the shaft.

Catalog Number (Ref.)	Torque Range lbf in.	Elect. Power watts	Shaft Inertia lbf in. sec <sup>2</sup>	Max. Speed rpm	Mech. Heat Dissipation watts	Max. Overhung Load lbf	Unforced Response msec.	Weight lb.
S90MPA-B28D37H38	.3 – 15	6	34 x 10 <sup>-6</sup>	2000	20	25.0	25	2.5
S90MPA-B34D50S	.6 – 35	9	12 x 10 <sup>-5</sup>	1800	30	50.0	35	4.0
S90MPA-B34D50H38								
S90MPA-B45D75S								
S90MPA-B45D75H50	1 – 60	8	45 x 10 <sup>-5</sup>	1800	50	100.0	85	7.0
S90MPA-B47D75S	2.5 – 115	13	61 x 10 <sup>-5</sup>	1800	55	120.0	90	8.0
S90MPA-B47D75H50								

13-30  
D820

REV:  
4/24/23

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