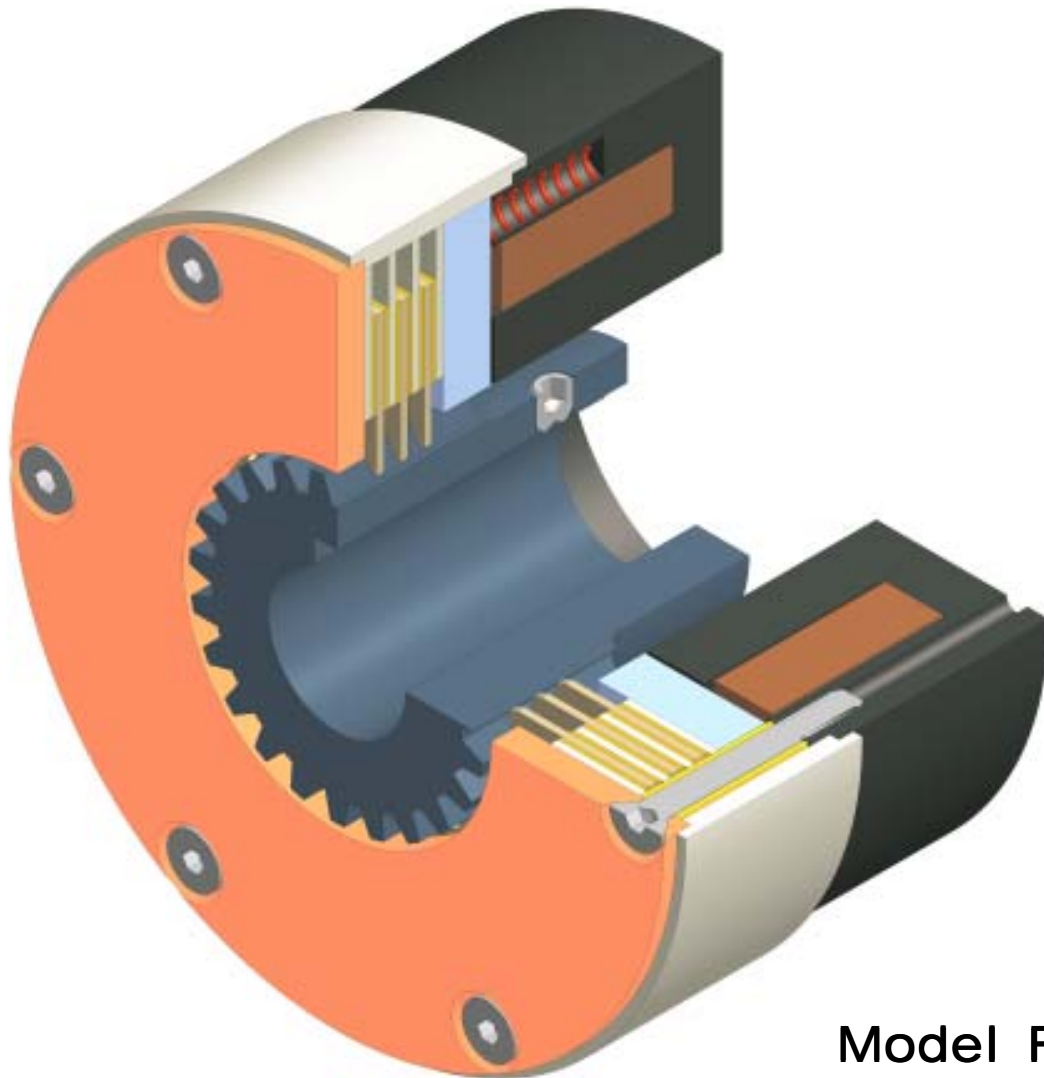


Spring Applied Multiple Disc Electric Brakes

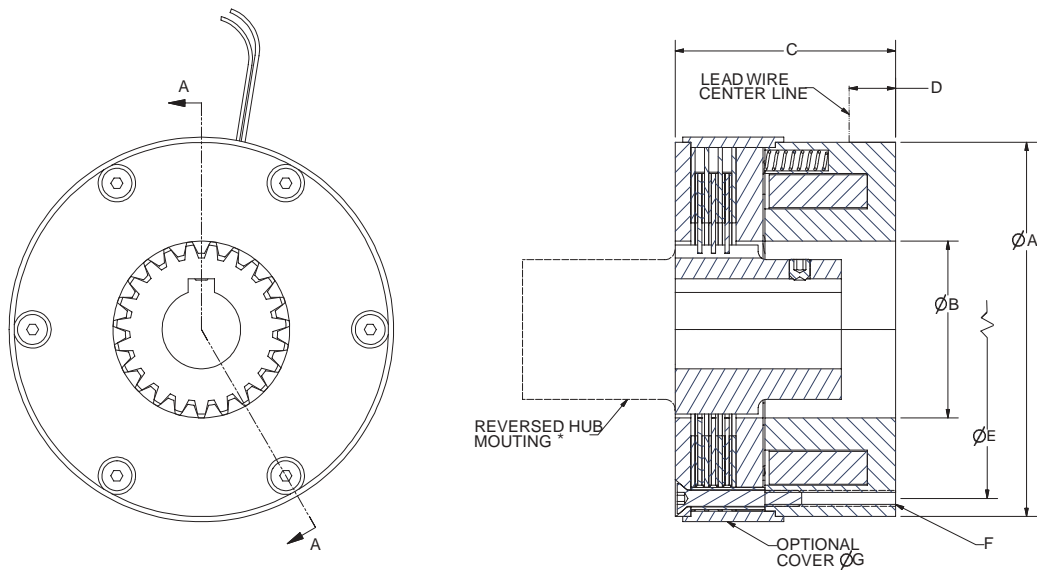
MAXITORQ®



Model FEB

THE MAXITORQ® ADVANTAGE

- Highest torque in the smallest space
- Multiple disc friction surfaces
- Low inertia
- Fast, reliable, positive braking action
- Power off design (spring applied, electrically released)
- Drag free neutral regardless of brake orientation
- Universal floating hub for interior or exterior shaft attachment
- Low backlash and zero backlash models available
- Available with optional cover for harsh environments



An optional protective cover is available to prevent dirt or moisture from entering the friction disc surfaces when used outside or in a dusty environment.

*Internal or external mounting of hub is possible

SPECIFICATIONS											
FEB Model	Static Torque (lb. ft.)	Locating Ø		C	Lead Wire Location D	Bolt Circle		Optional Cover Ø G	Standard Bore Size **	Keyway	Power Watts
		A	B			Ø E	Thread F				
FEB0250	15	2.50	0.82	2.125	0.340	2.188	6 x # 8-32	2.625	7/16 or 1/2	1/8 x 1/16	30
FEB0350	35	3.50	1.50	2.375	0.420	3.125	6 x #10-24	3.625	3/4 or 7/8	3/16 x 3/32	40
FEB0450	75	4.50	2.13	2.650	0.470	4.063	6 x #10-24	4.625	1 or 1 1/8	1/4 x 1/8	50
FEB0600	175	6.00	2.88	3.250	0.520	5.500	6 x 1/4-20	6.125	1 1/2 or 1 5/8	3/8 x 3/16	55
FEB0800	300	8.00	3.88	3.875	0.570	7.500	8 x 1/4-20	8.188	2 or 2 1/4	1/2 x 1/4	60
FEB1000	550	10.00	4.88	4.750	0.590	9.375	8 x 5/16-18	10.250	2 1/2 or 2 3/4	5/8 x 5/16	75

**Other bore sizes are available. All diameters are measured in inches.

Standard voltage is 24 or 100 DC (± 10%). Other voltages available.

The standard line of spring applied, multiple disc, electric brakes is designed for use as holding brakes, medium duty starting and stopping brakes, and for emergency stopping. Braking torque is applied when the electrical power is removed from the brake coil. This can occur intentionally or when there is a power failure. Removing power from the brake coil releases the compression springs, which clamp the Maxitorq® multiple friction discs between the brake armature and the stationary end plate resulting in a constant holding force. This provides braking torque to the hub and shaft through the friction discs. To release the brake, power is applied to the coil, producing a magnetic field that pulls the armature against the coil springs and away from the friction discs. Braking torque is now removed and the brake is free to rotate. The multiple discs are uniformly spaced by a unique Maxitorq® separator spring design, which ensures separation of the rotating friction discs when disengaged, regardless of the orientation of the brake. This virtually eliminates parasitic drag, which is detrimental to brake life. Our optimal flux path design minimizes flux leakage between the armature and the friction discs.

Typical applications include medical diagnostic equipment, parts handling equipment, holding brakes in servo drives and robotic mechanisms, emergency stopping brakes on power generation equipment and parking brakes on mobile and military equipment. We offer custom brakes with torque capabilities up to 3200 lb. ft. A significant portion of Carlyle Johnson's production is directed to user-specific requirements, including application of FEB brakes for frequent, high energy stops, extremely fast or slow braking and extremely low power consumption.

Carlyle Johnson offers a standard line of DC power supplies. Special power supplies are also available to reduce current draw and increase or decrease brake engagement or disengagement times. Contact your Carlyle Johnson engineering representative for further information.

The Carlyle Johnson Machine Company has over 100 years of experience in the power transmission industry producing high quality clutches, brakes, torque limiters, controls and power take-off packages. Our clutch and brake knowledge and our capability to respond to customer requirements is known throughout the industry. We specialize in solving unique power transmission problems. Our engineering staff is available to assist with your specific power transmission requirements.



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