

Failsafe Spring Set Brakes



Valcor Engineering Corporation

DESCRIPTION

Rotating shaft brakes provide the ability to stop a rotating shaft on a space craft, launch vehicle, aircraft, land-based vehicle or commercial and industrial equipment. The FSB-series electrically off brake is designed to stop a rotating shaft in milliseconds after power interruption. The brake is held off electrically, a field coil creating the magnetic holding force. When power is shut off or interrupted, a spring set causes the brake to activate, stopping the shaft rotation. Failsafe brakes are often mounted on the end of a motor shaft but can be mounted on the end of any rotating shaft in the drive train.

APPLICATION

Failsafe Spring Set Brake applications include:

- Factory Automation
- Aircraft Systems
- Business Machines
- Printing equipment including 3D printer, copiers, and printing presses
- Packaging equipment
- Conveyor Systems

FEATURES

- Zero backlash armature
- Hex or spline armature allow for shaft end play
- Manual lever release available on some models
- High Voltage AC models for fractional horsepower motors
- Stationary field coil – no slip rings or brushes
- Vibration-Proof epoxy resin encapsulated field coil
- Fast Response Time, as fast as 4 mS on some models



Contact us today to see how we can help on your next project.

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Valcor specializes in custom designs. Below are just a few examples of styles we have created in the past for our customers.

AVAILABLE STYLES

Series	Style
MFSB	Economical hex or spline drive armatures
EFSB	Motor applications with hex or spline drive armatures
BFSB	Zero backlash with positive engagement
MRFSB	BFSB brake with manual release lever
AC-FSB	AC single and three phase fractional horsepower motor brake