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Find the *Electroid EFSB-3* at our website: ***Click HERE***

FAILSAFE BRAKES

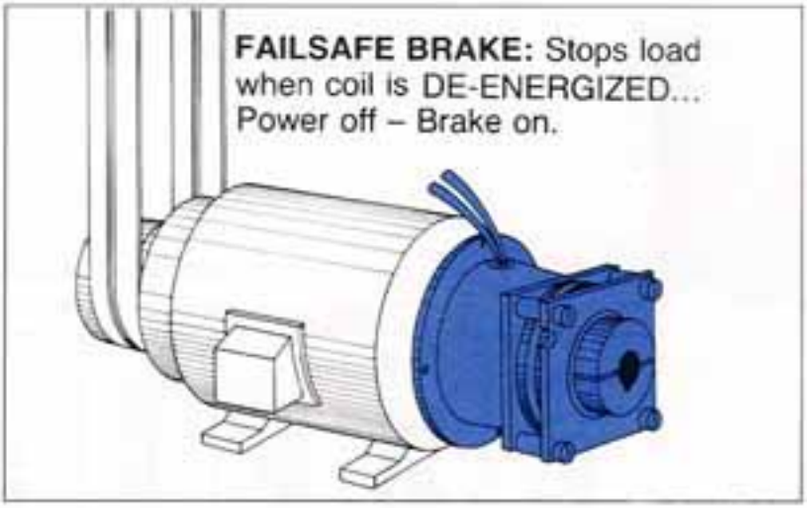


ELECTROID'S "SPRING SET" ELECTROMAGNETIC FAILSAFE* BRAKES

This section describes Electroid's "spring set" (Electrically OFF) failsafe brakes. Failsafe models include: MFSB, EFSB, BFSB, MRFSB and ACFSB Series, with torque ranges from 1 to 1,100 in.-lbs.

The MRFSB offers additional design flexibility by incorporating a manual brake release lever to allow rotation of the controlled shaft without energizing the coil. Application of electrical power to the coil resets the manual release automatically.

In addition to our "spring set" failsafe brakes, Electroid offers a full line of Permanent Magnet failsafe brakes and clutches. Please see Section F for these devices.



* Failsafe is a commonly used term to denote that the unit is energized when the power is OFF. Power OFF, brake ON.

FAILSAFE BRAKES

ELECTRICALLY OFF

MFSB SERIES/ 16 & 20 MFSB SERIES

These units provide an economical way to meet many design requirements. Spline or hex drive armature construction allows use in applications where considerable end play may be present.

EFSB SERIES

These units were designed to be used primarily on motor applications, but the universal design allows them to be used on any Failsafe Brake application. They are available in either hex drive or zero backlash armatures.

BFSB SERIES

These units are designed for applications that require zero backlash and positive engagement.

MRFSB SERIES

Same as the BSFB Series plus **manual release function.** Manual release permits one to rotate the controlled shaft (during repairs or adjustments) without energizing the coil. Application of electrical power to the coil resets the manual release automatically.

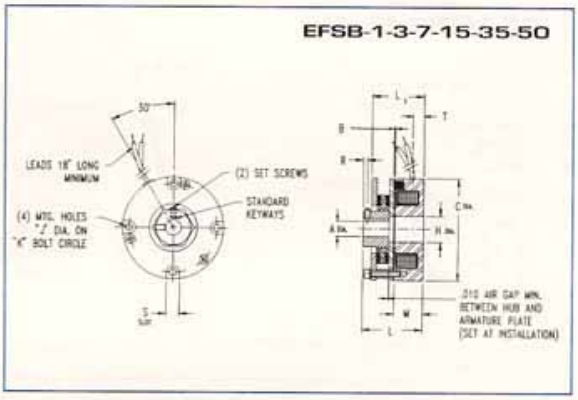
AC-FSB SERIES

Electrically off AC Motor Brakes for extremely fast response times (4 milli-seconds). Direct mounting connection to NEMA frame three phase motors. All brakes are supplied with manual release levers and can be mounted and operated horizontally or vertically. Standard voltages 220, 440 and 575 VAC three phase only.

EFSB SERIES



EFSB-1-3-7-15-35-50



MODEL #	A DIA.	B A/R GAP	C DIA.	H DIA.	J	K	L	L_1	M	R	S
EFSB-1	1/8 , 3/16 , 1/4	.003 TO .006	1.375	.280	(3) .126 DIA.	1.180 B.C.	.88	.73	.44	.09	.19
EFSB-3	3/16 , 1/4 , 3/8	.006 TO .010	1.750	.410	(3) .126 DIA.	1.545 B.C.	1.06	.87	.53	.11	.20
EFSB-7	1/4 , 3/8 , 1/2	.005 TO .015	2.44	.625 .627	(4) .172 DIA.	2.125 B.C.	1.45	1.25	.69	.10	.31
EFSB-15	1/4 , 3/8 , 1/2	.005 TO .015	2.44	.625 .627	(4) .172 DIA.	2.125 B.C.	1.45	1.25	.69	.10	.31
EFSB-35	1/2 , 5/8 , 3/4	.005 TO .015	3.50	1.000 1.002	(4) .203 DIA.	3.125 B.C.	1.89	1.63	1.00	.17	.34
EFSB-50	1/2 , 5/8 , 3/4	.005 TO .015	3.50	1.000 1.002	(4) .203 DIA.	3.125 B.C.	1.89	1.63	1.00	.17	.34

NOTES:

1. Attachment of armature hub is secured by key (where noted) and two set screws.
2. Maximum rated speed 7500 RPM.
3. 90 & 24/28 Volt DC are standard, built-in rectifiers for direct A.C. use. (Other voltages available upon request)
4. These models are also available with ZERO BACKLASH spring release armature assemblies. Consult ELECTROID for details.

MECHANICAL					ELECTRICAL		
MODEL #	RATED STATIC TORQUE (IN. - LBS.)	UNIT WEIGHT (LBS.)	INERTIA OF ROTATING ARMATURE (LBS.-IN.²)	RESPONSE TIME (MILLI-SEC.)	COIL #	RATED VOLTAGE (V.D.C.)	CURRENT (AMPERES)
EFSB-1	1	0.3	.001	25	1	90	.05
					2	24/28	.13
EFSB-3	3	0.4	.004	35	1	90	.05
					2	24/28	.13
EFSB-7	7	1.2	.012	45	1	90	.07
					2	24/28	.20
EFSB-15	15	1.2	.012	45	1	90	.12
					2	24/28	.30
EFSB-35	35	2.7	.127	95	1	90	.06
					2	24/28	.25
EFSB-50	50	2.7	.127	95	1	90	.09
					2	24/28	.39

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