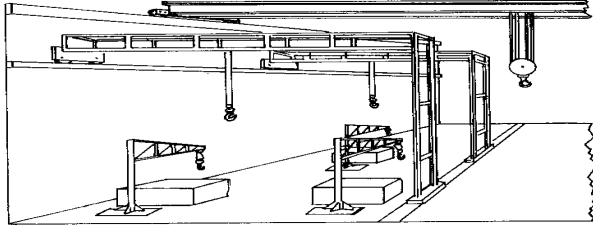


**Stearns®****Brakes, Clutches and Electronic Components**

E-Letter May 2009

## Crane & Hoist Brakes



Spring set NEMA C-face or Metric Motor Mount Brakes:

- Holding or dynamic use
- IP 23, IP 54, IP 56 enclosures
- Enclosure & application specific options available
- Self Adjusting or Manual Adjusting for Wear
- Brake release options
- One to three week availability on most brakes

**Solenoid & Linkage Brakes** (SAB brakes) are the standard choice for rapid acting brakes in dynamic or holding applications, offer the widest range of options for specific applications and rapid site coil or friction disc replacement.

**Armature Actuated Brakes** (AAB brakes) are DC brakes that can be rectified to standard NEMA voltages. The AAB brakes are recommended for holding applications and have a long mechanical life.



Specify:

- Frame size, C-face mount
- Brake Type
- Shaft and keyway dimension
- Mount: Horizontal, Vertical above motor, Vertical below motor.
- Voltage
- Options

Torque Selection by motor sizing:

Sizing by motor HP:  $\text{lb-ft} = \left( \frac{\text{HP} \times 5252}{\text{rpm}} \right) \times 1.5 \text{ sizing factor}^*$

\*descending loads wired across motor, use a 1.7 to 2.0 sizing factor.

Shown: SAB Brake mounted to the non-drive end of a motor



**\* Common Crane & Hoist Options:**



<b>Electrical:</b>		<b>SAB</b>	<b>AAB</b>
Space heater	115 or 230 V for internal condensation control	X	X
Status Switch	A switch can be set NO or NC to signal the brake is spring set or released.	X	( x )
Release Switch	A switch can be set NO or NC to signal the brake as electrically or mechanically released.	X	
Class H encapsulated construction coil	temperature extremes or rapid cycle rates	X	standard

<b>Mechanical:</b>			
Manual or Self Adjust	Auto or manual adjust for wear	X	manual
Brake Release Options:			
Full side release, manual reset	Allows high speed shaft rotation with no brake load	X	
Side release or pull release	Side recommended for IP 55 enclosure or vertical above motor mount	X	side only
Non-maintained release	Constant force to keep brake released	X	X
Undercover release	No external release visible	X	( x )
Encoder mount	shaft mount, rigid mount & internal encoder mountings	X	( x )

<b>Material:</b>			
Internal endplate finish	corrosion control, low cycle rate	X	
Brass in the disc pack	corrosion control	X	
Carrier Ring Disc pack	hot metal, people moving & similar high risk.	X	standard
Alternate friction materials	application based	( x )	

( x ) availability varies by series

\*additional options and designs such as hazardous duty brakes are listed in the catalog or contact the factory for application assistance. Options vary by brake series.

Application engineering support is available for selection of brake, options or sizing by inertia calculations.

Prior e-letter tech sheets are posted on the Stearns web site: [www.stearns.rexnord.com](http://www.stearns.rexnord.com)

**Stearns®: Reliable brakes through design, manufacture and support.**