

DEMAG CONICAL BRAKE MOTOR & ACS800 DRIVES

Description:

This document describes the parameter changes that are required to use a Demag conical brake motor with an ACS800 drive.

Demag Conical Brake Motor:

Demag motors are designed and sold through Demag Cranes and Components. At times ABB drives are used to run these motors. These motors are designed so when the motor comes to a stop a spring pushes the rotor creating a brake that stops the motor. While stopped the spring continues to hold the rotor and brake in place keeping it from moving.

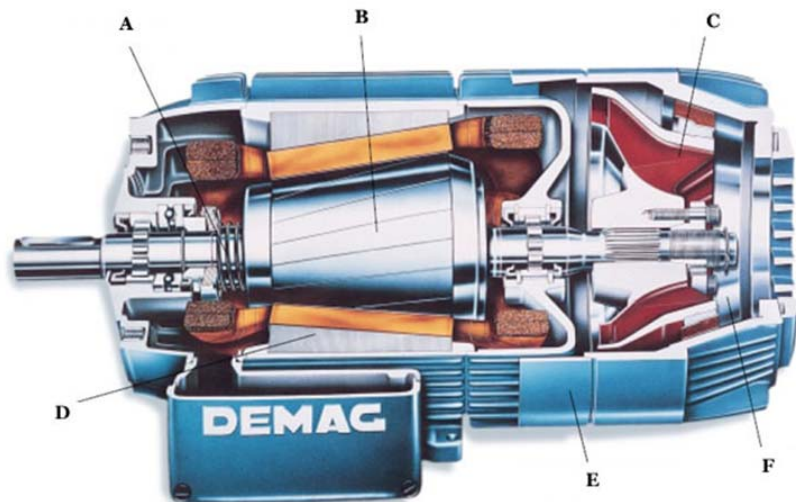
Demag conical brake motors are typically found on cranes. The ACS800 firmware manual mentions this type of motor under par 99.10, Reduced ID run. Is anything else required to set up this motor with this drive other than the reduce ID run?

For these motors run a reduced ID run and make sure the Start Mode is set to constant DC Mag in 21.01 and 21.02. A standard ID run will adjust the flux during the ID which could cause the brake to engage and not tune properly. The reduced ID run keeps the flux constant.

For further details and specs on the motor see the Demag Cranes and Components website:

<http://www.demagcranes.us/Products/index.jsp>

- A. Brake Rotor Spring
- B. Sliding Conical Rotor
- C. Integral Brake
- D. Single or two-speed
- E. Aluminum die cast or cast iron housing depending on frame size
- F. Integral Fan



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