



**70 Series 8700 Coupler
1pc Hub & Shaft
1 Phase Brake Instructions
IP43 & IP56 (NEMA 2 & 4) Housing**

Read carefully before attempting to assemble, install, operate or maintain the product described. Protect yourself and others by observing all safety information. Failure to comply with instructions could result in personal injury and/or property damage! Retain instructions for future reference.

DESCRIPTION

These magnetic disc brakes mount directly onto NEMA182C, 213TC, and 256TC frame motors, on the drive shaft. The brake is direct acting, electro-magnetically released, and spring set. It uses rotating friction and stationary disc contact to supply positive braking action. It retains quick release and setting capabilities at all times.

WARNING: Do not install or use these brakes in an explosive atmosphere.

WARNING: Brake performance and features must be carefully matched to the requirements of the application. Consideration must be given to torque requirements, especially where an overhauling condition exists, as well as thermal capacity, ambient temperature, atmospheric explosion hazards, type of enclosure and any other unusual conditions. Improper selection and installation of a brake and/or lack of maintenance may cause brake failure which could result in damage to property and/or injury to personnel. If injury to personnel could be caused by brake failure, additional means must be provided to insure safety of personnel.

UNPACKING

When unpacking the brake, inspect it carefully for damage that may have occurred during transit. Do not activate the manual release without the hub inserted in the discs as doing so may result in loss of disc spline alignment.

GENERAL SAFETY INFORMATION

NOTE: These brakes are not intended for accurate positioning applications. They are designed for applications that require rapid stopping and holding power, such as on conveyors, door openers, etc.

1. For applications with high inertia-type loads or rapid cycling, the thermal capacity of the brake must be considered.
2. Observe all local electrical and safety codes, as well as the National Electrical Code (NEC) & the Occupational Safety and Health Act (OSHA).
3. Brake motors & brake gearmotors must be securely & adequately grounded. This can be accomplished by wiring with a grounded metal-clad raceway system, by using a separate ground wire connected to the bare metal of the motor frame, or other suitable means. Refer to NEC Article 250 (Grounding) for additional information. All wiring should be done by a qualified electrician.
4. Always disconnect power before working on or near a brake motor, a brake gearmotor, or its connected load. If the power disconnect point is out of sight, lock it in the open position and tag it to prevent unexpected application of power.
5. When working on the brake, be sure the load is completely removed, secured or blocked to prevent injury or property damage.
6. Provide guarding for all moving parts.
7. Be careful when touching the exterior of an operating motor, gearmotor or brake. It may be hot enough to cause injury or to be painful. This condition is normal for modern motors, which operate at higher temperatures when running at rated load & voltage.
8. Protect all electrical lead wires & power cables against contact with sharp objects or moving parts.
9. Do not kink electrical lead wires & power cables, and never allow them to touch oil, grease, hot surfaces, or chemicals.

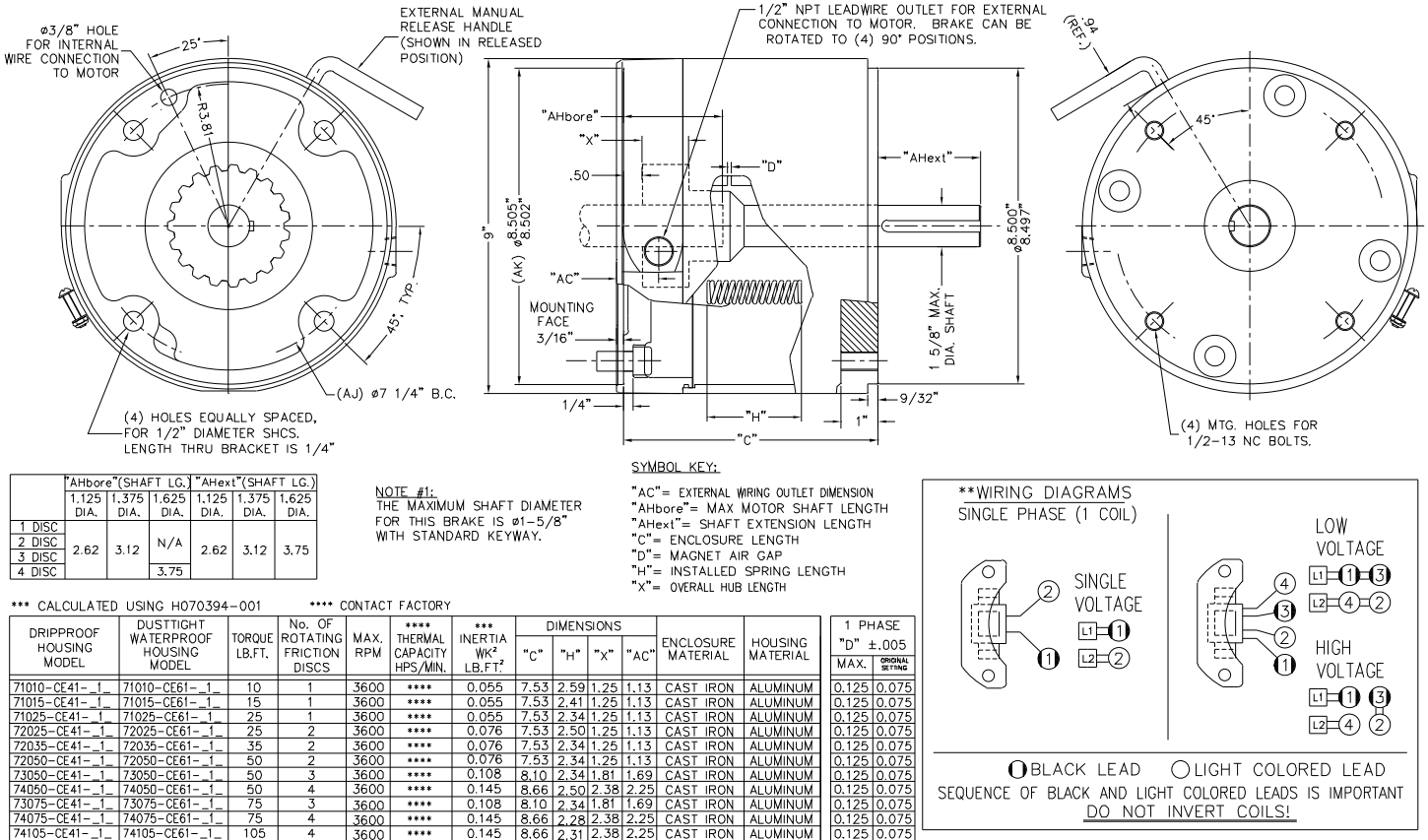


Figure 1 - Brake Outline

RECOMMENDED TOOLS AND HARDWARE

NOTE: The following tools and hardware are required for installing the brake onto a motor or mounting bracket. Use proper torque when required to ensure fasteners do not loosen during operation.

- SCREWDRIVER (PHILLIPS or FLAT)
- 3/8 OPEN ENDED WRENCH (or ADJUSTABLE WRENCH)
- QUANTITY (4), 1/2 diameter SHCS, MINIMUM 1" LONG (see installation note #4 below)
- QUANTITY (4), 1/2-1/3 diameter SHCS, MINIMUM 1-1/2" LONG (see installation note #6 below)
- 3/8 EXTENDED LENGTH BALL END HEX SOCKET (OR T-HANDLE HEX KEY)

INSTALLATION

(See Figures 1, & 2, Table 1)

1. Remove machine key from brake and position it on the motor shaft.
2. Remove the wrap cover and hardware (80, 81 & 82) and set aside to expose the four access windows.
3. Place/slide brake onto motor shaft.
4. Insert and install the 1/2 SHCS through the housing windows at four spots and secure and tighten each one to motor "C" face using an extended length ball end hex key brake. See Figure 1 to help in determining proper bolt length. Final bolt thread pitch, length and mounting torque is dependent on the material and depth of the threaded holes in the mounting face.
5. Line up and insert the shaft end of the brake/motor combination into the gear box or transmission component "C" face flange and align the hole set for the flange and the brake.
6. Insert and install the 1/2-13 SHCS through the gear box flange and into the brake housing. Final bolt length and mounting torque is dependent on the material and thickness of the gear box mounting flange.
7. Connect coil leads per appropriate wiring diagram in Figure 1.

EXPLODED VIEW

(See Table 1)

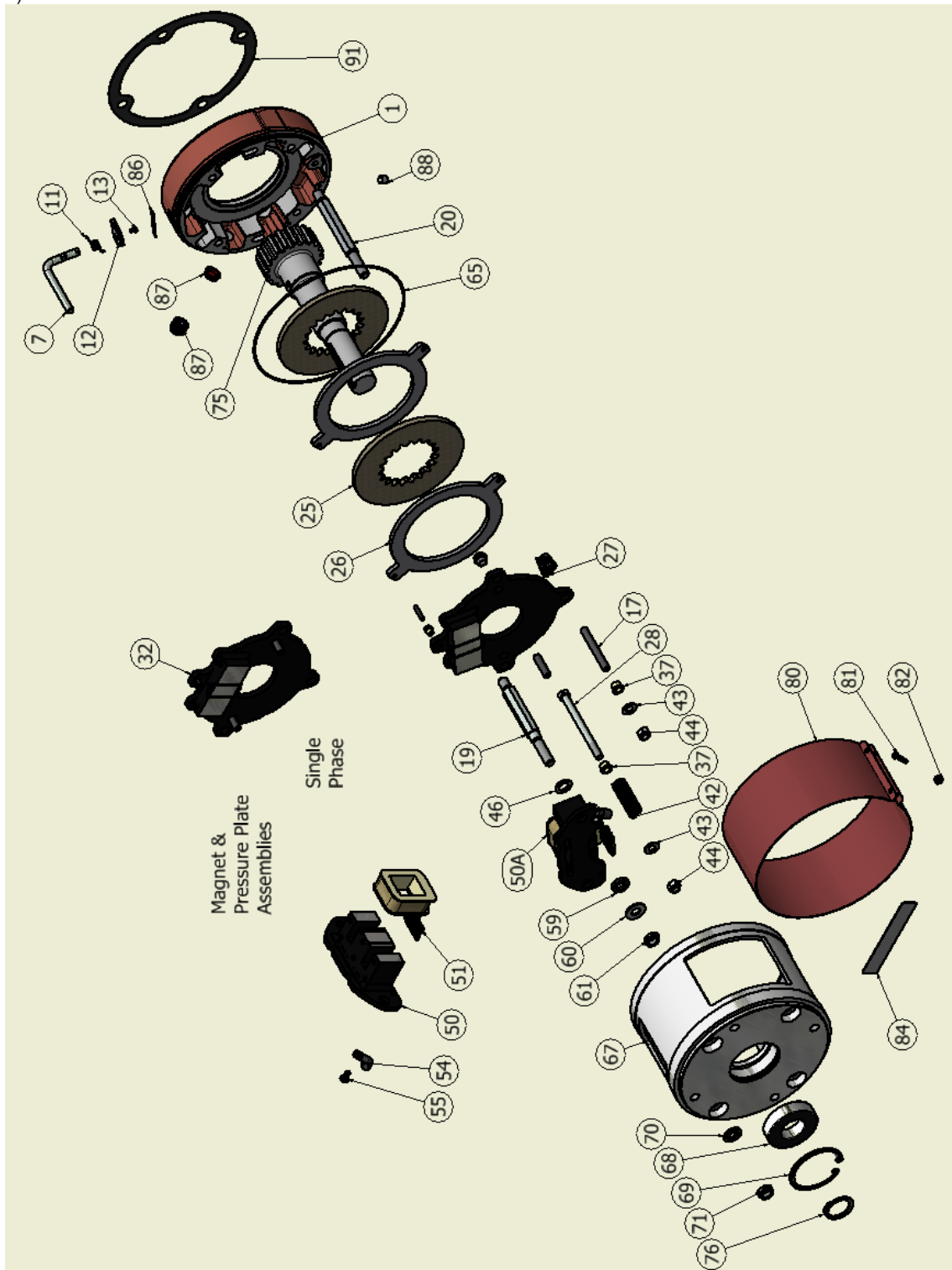


Figure 2 - Exploded View of Brake