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# CLUTCHES & BRAKES



# D-Series Motor Brake

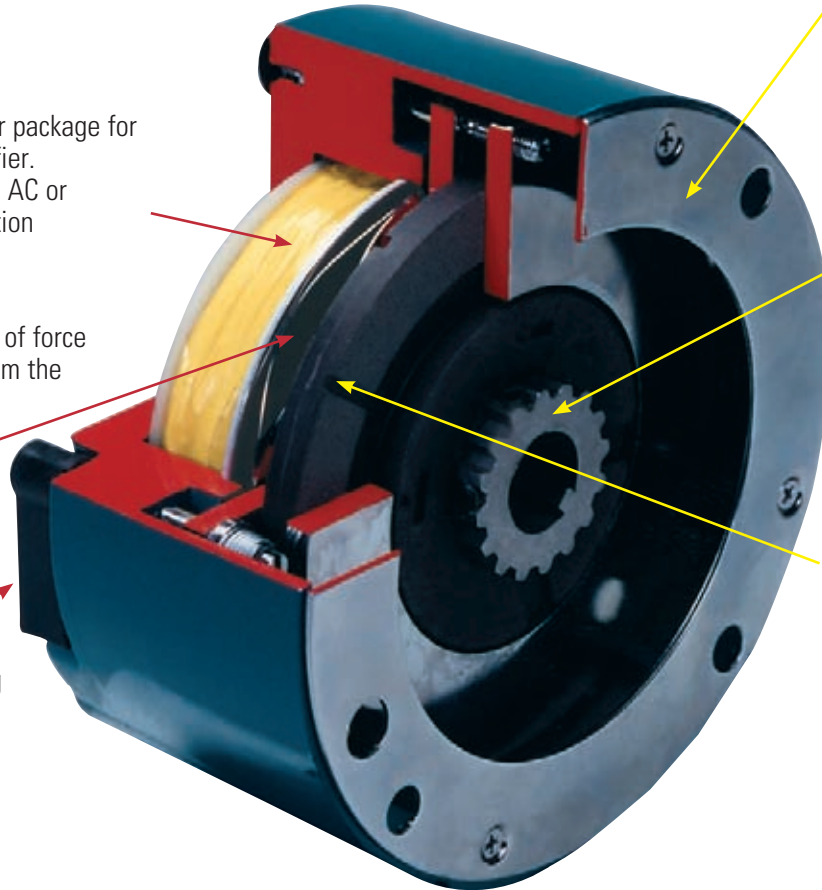
## Features & Benefits

**NEW:** Color coded lead wires for easier installation and to reduce the risk of mis-wiring.

**NEW:** Higher rated rectifier package for longer life of internal rectifier. D-series brakes operate on AC or DC voltage. Class B insulation is standard.

Wave spring provides 360° of force when power is removed from the coil.

Easy-to-use, reliable spring tensioned manual release levers.



Industry standard NEMA C-Face mounting. Interchanges easily with competitive units.

Splined hub permits uniform load distribution. Integral key design simplifies installation - no loose parts.

Single, non-asbestos friction disc design extends life, reduces replacement parts and allows quiet operation.\*

Rugged, die-cast aluminum housing mounts at any angle without modification.

**NEW:** Recessed Adjusting Bolts, wear adjustments are made external to brake- no disassembly required! Adjustments can be made in less than a minute by tightening each bolt to 50 in-lb of torque and then back off 180° (1/2 turn).

*\* 35 & 50 ft-lb motor brakes employ two friction discs and can be mounted at any angle without modification.*

- Exceptionally Long Life
- Quieter Operation
- Easy Installation
- Fewer Internal Parts
- Interchangeable
- Smooth Stopping Action
- Splined Hub for Superior Load Distribution
- External Wear Adjustments

# 3 Through 50 Ft.-Lbs. Ratings Available

## \*\* E-Z KLEEN®

- Epoxy Paint Protects Against Harsh Washdown Applications
- Conforms to FDA/USDA Specifications
- Stainless Steel Hardware
- Available in 56C and 140TC NEMA Frame
- 3 - 25 ft.-lbs. Static Torque Ratings



E-Z KLEEN  
Single C-Face



E-Z KLEEN  
Double C-Face Coupler

## Adapter Kits

This adapter kit lets you take a standard RELIANCE ELECTRIC TEFC motor and convert it into a brakemotor in just a few minutes!

Determine whether your motor can be adapted with this checklist. Your motor cannot be adapted if you answer NO to any of the questions below.

- Is it a RELIANCE ELECTRIC motor?
- Is it TEFC construction?
- Is it standard enclosure (no ST, SXT, Explosion-proof or E-Z KLEEN)?
- Is it 56 or 140 frame (no 180 or 210 frames)?

The adapter kit allows you to field upgrade a standard TEFC motor to brakemotor. Plus, by purchasing standard motors, brakes and adapter kits, instead of buying standard motors and complete brakemotors, you will have fewer total dollars invested. It offers a fast and easy solution for breakdown situations involving a need for brakes.



## Fast Response Kits

In positioning applications, use of a fast response kit allows you to obtain stop times equivalent to AC voltage brakes while continuing to get all of the benefits associated with DC voltage brakes.

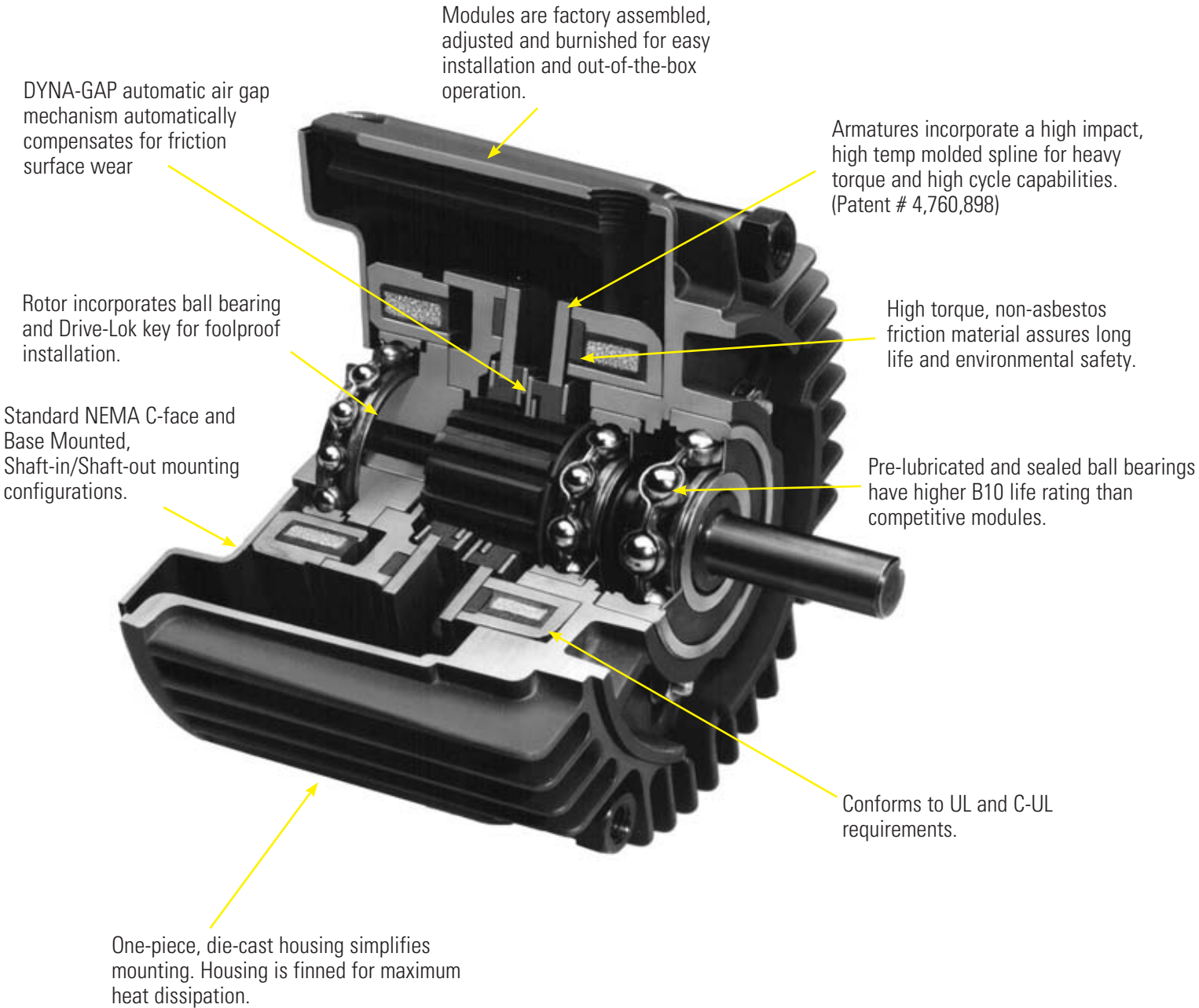
- Low power draw = less energy consumption
- Constant current creates smooth operation
- Lower coil temperature during cycling applications
- Quieter operation

The kit has two wiring configurations:

- Wired to brake and motor
- Wired to brake and isolated AC line

# Clutch/Brake Modules

## Features & Benefits



# Standard Module Configurations

## \*5 Series DMCCB C-Face Clutch/Brake Module

- DMCCB modules are ideal for rapid cycling applications. They can be mounted direct between a C-face motor and reducer. Five standard sizes are available in 90, 24 or 6 VDC input voltage. The brake is power on.



## \*5 Series DMCCO C-Face Clutch Only Module

- The DMCCO mounts and operates in a manner similar to DMCCB, but as a clutch only. The clutch ratings and external dimensions of both units are the same. Both are completely factory pre-assembled, adjusted, burnished and dynamically tested.

## \*\* Series DMCBO C-Face Brake Only Module

- The DMCBO mounts and operates in a manner similar to DMCCB, but as a power-on brake only. Brake ratings are the same as the DMCCB. Dimensionally, the DMCBO is shorter axially from C-Face to output shaft.



## \* Series DMCBX C-Face Brake Only Module (no output shaft)

- The DMCBX power-on brake is designed to be mounted on a double shafted C-Face motor. It is shorter axially than comparable power-off brakes and provides the advantages of C-Face mounting in space restricted applications. Sizes and ratings are the same as DMCBO brakes.



## \* Series DMSCB Base Mounted Clutch/Brake Module

- The DMSCB clutch/brake module is rated identically to the C-Face version, but is

mounted on a base with standard shaft input and output. It can be decoupled or linked by belt drive to motor and driven equipment. (Bases Ordered Separately)



## \* Series DMSCO Mounted Clutch Only Module

- The DMSCO mounts and operates in a manner similar to the DMSCB but as a clutch only. Clutch ratings and dimensions of both units are identical. (Bases Ordered Separately)

# Clutches & Brakes

## Shaft Mounted Clutches & Brakes

### Clutches

#### \*6 IEC Series Shaft Mounted Clutches

- Factory assembled, tested, preburnished and ready to mount on standard motor shafts. Sheaves sprockets, gears or other power transmission components can be mounted directly on the clutch hub extension with standard DODGE TAPER-LOCK® bushings.



### Brakes

#### \*6 IEB Series Shaft Mounted Power-On Brakes

- Offer a wide selection of bore sizes with the use of the DODGE TAPER-LOCK® bushings. The anti-rotation torque arm can be mounted in any location around the shaft for further application flexibility. Five motor adapters are also available for mounting single shaft extension motors.



#### \*6 IPB Series Flange Mounted Power-On Brakes

- The brake magnet/flange can be mounted to any suitable mounting surface. Armature mounts to load shaft using DODGE TAPER-LOCK® bushings.



	PRODUCT	SIZE	STATIC TORQUE (Lb. - Ft.)	MAX HP @ 1800 RPM
CLUTCHES	IEC Series	IEC 375	22	1
		IEC 475	34	2
		IEC 650	100	3
		IEC 825	175	7 1/2
BRAKES	IEB Series	IEB 375	22	2
		IEB 475	34	3
		IEB 650	100	7 1/2
		IEB 825	175	20
BRAKES	IPB Series	IPB 375	22	2
		IPB 475	34	3
		IPB 650	100	7 1/2

# Fractional HP Clutches & Brakes

## \*7 SL & BSL Series Electric Clutches

- Bearing mounted
- Couples 2 parallel shafts
- SL has 9 sizes for shaft diameters 3/16" - 3/4"
- BSL has 2 sizes for shaft diameters 1/2" - 1"
- Protective zinc chromate plating



BSL Series



eries

## \*7 SO Series Electric Clutch Couplings

- Couples in-line shafts
- Zinc chromate plating for corrosion resistance
- 9 sizes for shaft diameters 3/16" - 1"

## \*7 FB Series Power On Brakes

- Power-on brake, engages when voltage is applied, releases when voltage is turned off
- 9 sizes for shaft diameters 3/16" - 1"



FB Series



FSB Series



FSBR Series

## \*7 FSB & FSBR Series Power Off Brakes

- Flange mounted
- Engages when voltage is removed
- 7 sizes for shaft diameters 3/16" - 3/4"
- Non-asbestos, non-lead friction material for long-life and quiet operation FSBR
- Designed for applications requiring minimal space
- 5 sizes for shaft diameters 5/16" - 3/4"
- Non-asbestos, non-lead friction material for long-life and quiet operation

# Power Supplies & Accessories



## \*8 Model 50 - Conduit Box Supply

- Controls one brake or clutch
- Input: 120 VAC; 50/60 Hz
- Output: 90 VDC
- Rating: 0.8 amps
- Full wave rectifier
- Dimensions: 5/8" H, 2" W, 1 3/8" D



## \*8 Octal Socket

- Socket used with octal bases
- Prewired
- UL approved
- Standard design
- Dimensions: 3/4" H, 2 1/2" W, 2" D

## \*8 Model 200 - Octal Base

### Mount with Fuse

- Controls one brake and clutch
- Input: 120 VAC; 50/60 Hz fused
- Output: 90VDC
- Used with octal socket
- Full wave rectifier
- Rating: 1.5 amps
- Fused for overload protection
- Dimensions: 2 1/2" H, 2" W, 2" D



## Fast Response Kit

For application that required faster reactions times, the fast response kit allows you to obtain quicker stop times for more accurate positioning.

The fast response kit is also available pre-assembled to a conduit box cover for easier installation

## Replacement Rectifier Kit

DODGE D-Series brakes come with an internal rectifier allowing operation on either AC or DC voltage. External Replacement Rectifier are available for easy installation in the event that a new rectifier is needed.



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