

Custom Design Clutches and Brakes

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Custom design with off-the-shelf components

For maximum mounting versatility and design flexibility Custom Design products may be designed into the most demanding and space restrictive applications. They require additional engineering and assembly capability, but their lower initial cost and wider range of sizes makes them an ideal consideration for many applications. Like all Warner Electric packaged clutches and brakes, they never need adjustment, and they are built to the same standards of quality and performance.

Wide Range of Sizes

Assembled around the basic components of an electric clutch-brake, magnet and armature, custom design products come in a tremendous range of sizes, torque ratings and configurations.

Custom Design Clutches and Brakes

Product Line

Clutches

SF series

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Stationary Field Design

- Flange or bearing mounted styles
- The SF design eliminates collector rings and brush-holder. Ideal for adverse environmental conditions. Mounting tolerances are generally more critical than the PC design.



PC series

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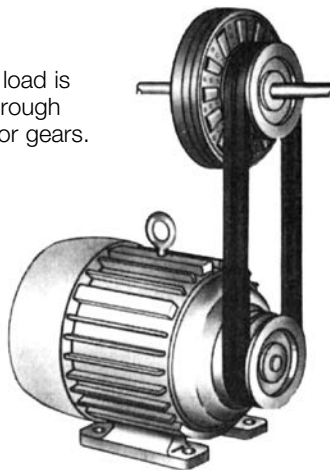
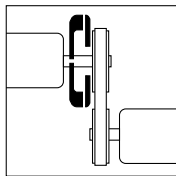
Primary Design

- Current is carried through brushes and the collector ring to the rotating magnet. The PC design is less expensive than the SF design.



Application

A clutch is used when the load is driven to a parallel shaft through sheaves, belts, sprockets or gears.



Clutch Couplings

SFC series

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Stationary Field Design

- The SFC Series clutch couplings employ the same basic components as the SF design except for a splined hub and adapter which serves as a coupling for in-line shaft applications.



PCC series

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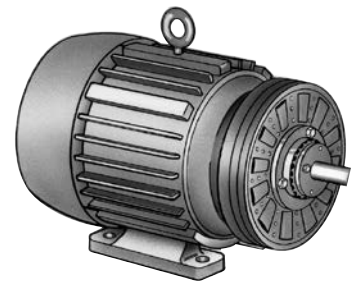
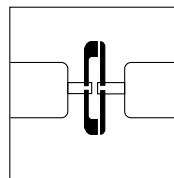
Primary Design Coupling Units

- The PCC Series clutch couplings employ the same basic components as the PC design except for a splined hub and adapter which serves as a coupling for in-line shaft applications.



Application

A clutch coupling is used to couple two inline shafts.



Brakes

PB series

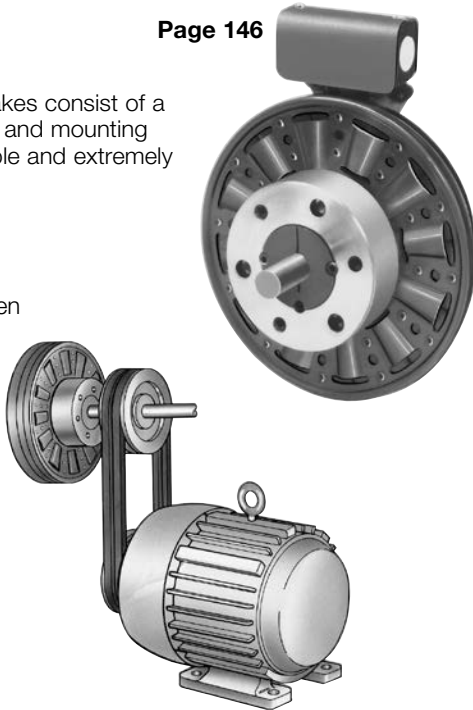
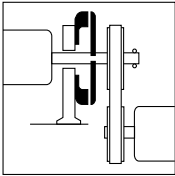
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Brake

- The PB Series brakes consist of a magnet, armature and mounting hub in a very simple and extremely compact design.

Application

A brake is used when a rotating load is to be stopped.



Clutch/Brake Combinations

PCB series

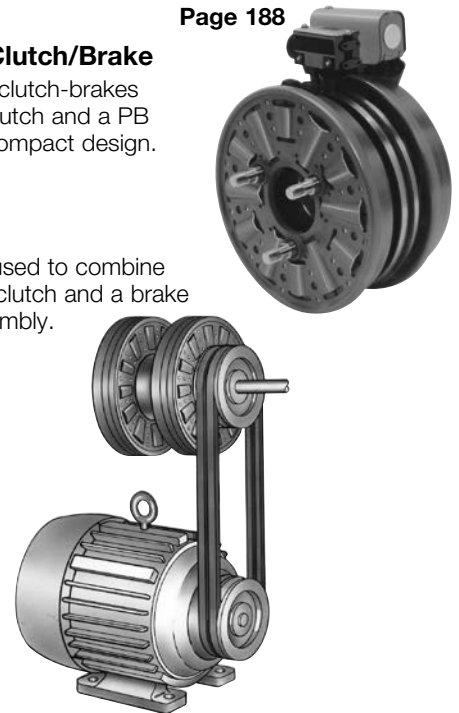
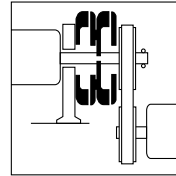
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Primary Style Clutch/Brake

- The PCB Series clutch-brakes combine a PC clutch and a PB brake into one compact design.

Application

A clutch-brake is used to combine the functions of a clutch and a brake in a compact assembly.



MB series

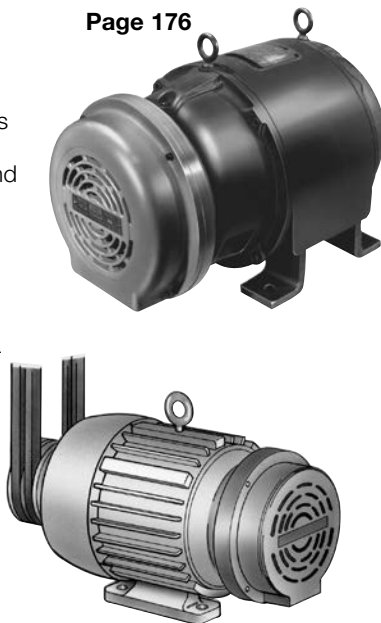
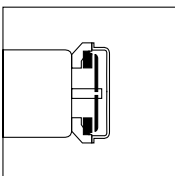
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Motor Brake

- MB motor brakes are composed of a PB Series brake mounted on a NEMA C-face adapter and cover assembly.

Application

A motor brake mounts directly on the end bell of a double shafted motor.



SFPBC series

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Stationary Field Clutch/Brake Coupling

- The SFPBC clutch/brake coupling series combines an SFC clutch coupling with a PB brake.

PCBC series

Page 214

- The PCBC clutch/brake coupling series combines a PCC clutch coupling with a PB brake.

Application

A clutch-brake coupling is used to combine the functions of a clutch coupling and a brake.

