

UniBrake AC Motor Brakes

Warner Electric UNIBRAKE® decelerates or holds loads when power is off

C-Face, Power-Off Brakes

Single C-Face Power-Off Brakes are designed to decelerate or hold inertia loads when the power is turned off. The single C-Face mounts on the non-driven end of a motor. Brakes are available from 3 ft. lb. to 15 ft. lb.

C-Face, Power-Off Brakes with Heavy-Duty Enclosures

Our Single C-Face Power-Off Brake is also available with cast iron housing for applications involving corrosive environments. The heavy-duty housing also includes o-ring seals to create a dust-tight brake. Brakes are available from 3 ft. lb. to 15 ft. lb.

Double C-Face, Power-Off Brakes

The Double C-Face Brake is designed for use as a coupler between standard C-Face motors and C-Face gear reducers.



UNIBRAKE is available to meet the demands of a wide variety of applications



Applications

The motor brakes are commonly used as parking brakes to hold a load in place or as stopping brakes to dynamically decelerate a load.

Applications include:

- Material Handling
- Food Processing
- Machine Tools

Simple design with fewer moving parts means less downtime

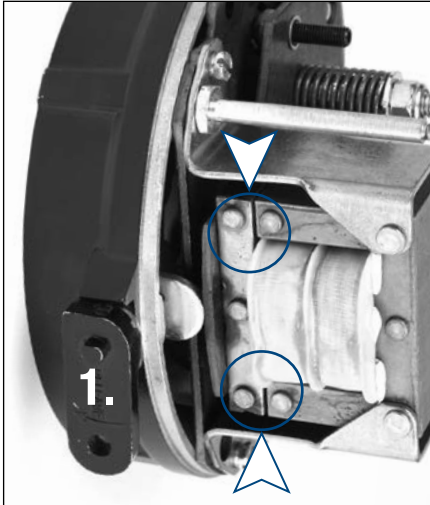


Figure 1:

When the motor is 'off', the driven load can be moved without energizing the motor by rotating the manual release lever 90° clockwise which removes the retarding torque from the motor shaft.

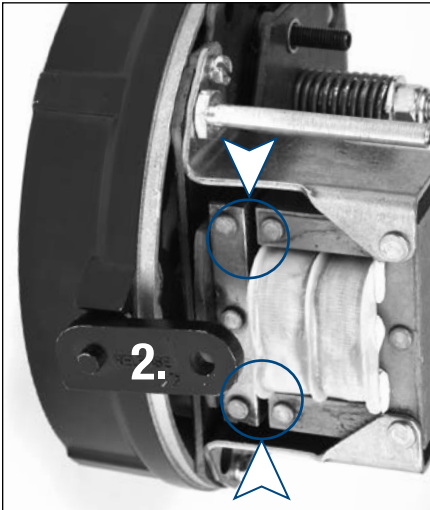


Figure 2:

The lever returns to the normal "set" position when the brake is re-energized.

Spring Applied — Power-Off Operation

Warner Electric spring applied motor brakes are designed to decelerate or park inertial loads when the voltage is turned off, either intentionally or accidentally, as in the case of power failure. The friction disc with the hub is coupled to the motor shaft to be braked but is capable of moving axially. When power is off, a spring force clamps the friction disc between a pressure plate and a stationary plate, hence retarding motion. When an AC voltage is applied, the solenoid creates a Direct Acting magnetic force which releases the friction disc without the use of a linkage. This allows the hub and motor shaft to turn freely.

Features

- External manual release lever
- Totally enclosed construction
- Torque adjustable from full rated torque down to 50%
- Single phase AC coils provide fast engagement and release times and easy wiring.

Mounting

Two styles are available: the single C-Face brake and the double C-Face brake. The single C-Face mounts on the non-driven end of a motor. The C-Face brake is interchangeable with existing brakes and can be used on motors that are modified to accept a brake. The double C-Face brake can be used as a coupler between standard C-Face motors and C-Face gear reducers. All motor brakes are interchangeable with competitive motor brakes.

F Series UniBrakes

C-Face AC Rear-Mounted Brakes with NEMA 2 Housing

Aluminum Head-Steel Cover

56,000 NEMA 2; 56,100 NEMA 2; 56,300 NEMA 1

Warner Electric Single C-Face Power-Off Brakes are designed to decelerate or hold inertia loads when the power is turned off. The single C-Face mounts on the non-driven end of a motor. Brakes are available from 3 ft. lb. to 15 ft. lb.

Features:

- External manual release lever
- Totally enclosed construction
- Torque adjustable from full-rated torque down to 50%
- Single-phase AC coils to provide fast release times and easy wiring
- Single C-Face



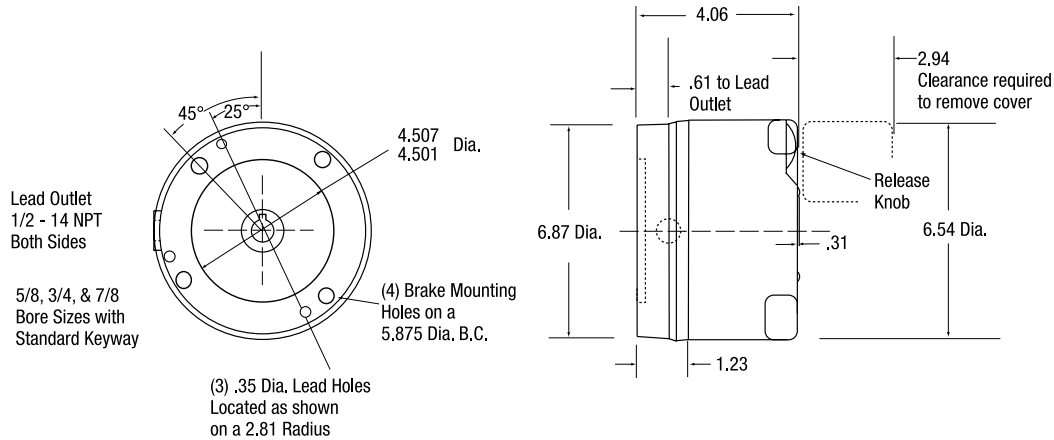
Brake Part Numbers

Technical Data

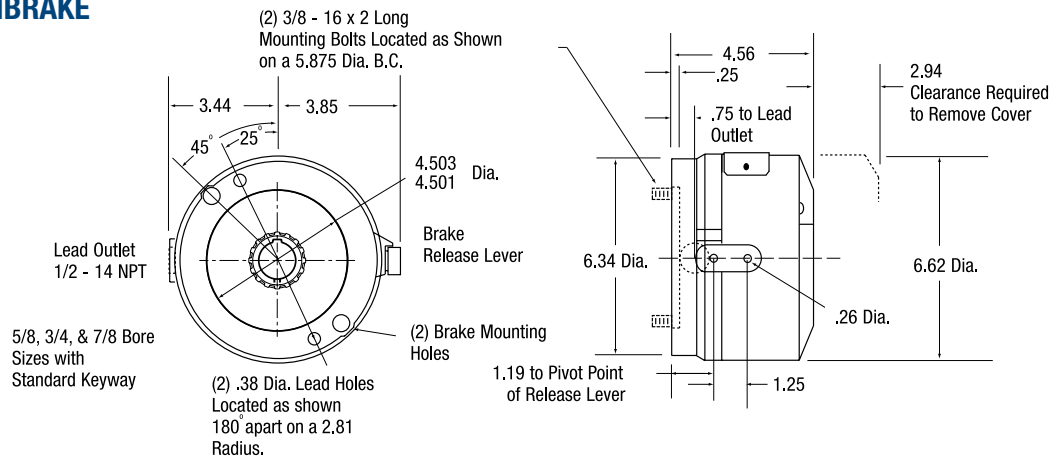
Coil Voltage	3 ft. lb. Brakes (1 Disc)	6 ft. lb. Brakes (1 Disc)	10 ft. lb. Brakes (2 Discs)	15 ft. lb. Brakes (3 Discs)	Current Holding Amps	Current Inrush Amps
5/8 Bore Hub						
115/230, 60 HZ	F51A0321-W	F51A0621-W	F52A0721-W	F53A0821-W	.50/.25	3.66/1.83
230/460, 60 HZ	F51A0324-W	F51A0624-W	F52A0724-W	F53A0824-W	.28/.14	1.94/.97
287/575, 60 HZ	F51A0325-W	F51A0625-W	F52A0725-W	F53A0825-W	.22/.11	1.54/.77
115/230, 50 HZ	F51A0328-W	F51A0628-W	F52A0728-W	F53A0828-W	.45/.22	3.27/1.64
230/460, 50 HZ	F51A0329-W	F51A0629-W	F52A0729-W	F53A0829-W	.24/.12	1.76/.88
3/4 Bore Hub						
115/230, 60 HZ	F51B0321-W	F51B0621-W	F52B0721-W	F53B0821-W	.50/.25	3.66/1.83
230/460, 60 HZ	F51B0324-W	F51B0624-W	F52B0724-W	F53B0824-W	.28/.14	1.94/.97
287/575, 60 HZ	F51B0325-W	F51B0625-W	F52B0725-W	F53B0825-W	.22/.11	1.54/.77
115/230, 50 HZ	F51B0328-W	F51B0628-W	F52B0728-W	F53B0828-W	.45/.22	3.27/1.64
230/460, 50 HZ	F51B0329-W	F51B0629-W	F52B0729-W	F53B0829-W	.24/.12	1.76/.88
7/8 Bore Hub						
115/230, 60 HZ	F51C0321-W	F51C0621-W	F52C0721-W	F53C0821-W	.50/.25	3.66/1.83
230/460, 60 HZ	F51C0324-W	F51C0624-W	F52C0724-W	F53C0824-W	.28/.14	1.94/.97
287/575, 60 HZ	F51C0325-W	F51C0625-W	F52C0725-W	F53C0825-W	.22/.11	1.54/.77
115/230, 50 HZ	F51C0328-W	F51C0628-W	F52C0728-W	F53C0828-W	.45/.22	3.27/1.64
230/460, 50 HZ	F51C0329-W	F51C0629-W	F52C0729-W	F53C0829-W	.24/.12	1.76/.88

C-Face AC Rear-Mounted Brakes with NEMA 2 Housing Aluminum Head-Steel Cover 56,000 NEMA 2

Stearns®



Warner UNIBRAKE



UNIBRAKE Interchange

Stearns® Part Number	Warner Electric Replacement
1-056-011-00-BNF	F51A0325-W
1-056-011-00-BOF	F51A0328-W
1-056-011-00-BPF	F51A0321-W
1-056-011-00-BQF	F51A0324-W
1-056-011-00-CNF	F51B0325-W
1-056-011-00-COF	F51B0328-W
1-056-011-00-CPF	F51B0321-W
1-056-011-00-CQF	F51B0324-W
1-056-011-00-DNF	F51C0325-W
1-056-011-00-DOF	F51C0328-W
1-056-011-00-DPF	F51C0321-W
1-056-011-00-DQF	F51C0324-W
1-056-021-00-BNF	F51A0625-W
1-056-021-00-BOF	F51A0628-W
1-056-021-00-BPF	F51A0621-W
1-056-021-00-BQF	F51A0624-W

Stearns® Part Number	Warner Electric Replacement
1-056-021-00-CNF	F51B0625-W
1-056-021-00-COF	F51B0628-W
1-056-021-00-CPF	F51B0621-W
1-056-021-00-CQF	F51B0624-W
1-056-021-00-DNF	F51C0625-W
1-056-021-00-DOF	F51C0628-W
1-056-021-00-DPF	F51C0621-W
1-056-021-00-DQF	F51C0624-W
1-056-031-00-BNF	F52A0725-W
1-056-031-00-BOF	F52A0728-W
1-056-031-00-BPF	F52A0721-W
1-056-031-00-BQF	F52A0724-W
1-056-031-00-CNF	F52B0725-W
1-056-031-00-COF	F52B0728-W
1-056-031-00-CPF	F52B0721-W
1-056-031-00-CQF	F52B0724-W

Stearns® Part Number	Warner Electric Replacement
1-056-031-00-DNF	F52C0725-W
1-056-031-00-DOF	F52C0728-W
1-056-031-00-DPF	F52C0721-W
1-056-031-00-DQF	F52C0724-W
1-056-041-00-BNF	F53A0825-W
1-056-041-00-BOF	F53A0828-W
1-056-041-00-BPF	F53A0821-W
1-056-041-00-BQF	F53A0824-W
1-056-041-00-CNF	F53B0825-W
1-056-041-00-COF	F53B0828-W
1-056-041-00-CPF	F53B0821-W
1-056-041-00-CQF	F53B0824-W
1-056-041-00-DNF	F53C0825-W
1-056-041-00-DOF	F53C0828-W
1-056-041-00-DPF	F53C0821-W
1-056-041-00-DQF	F53C0824-W

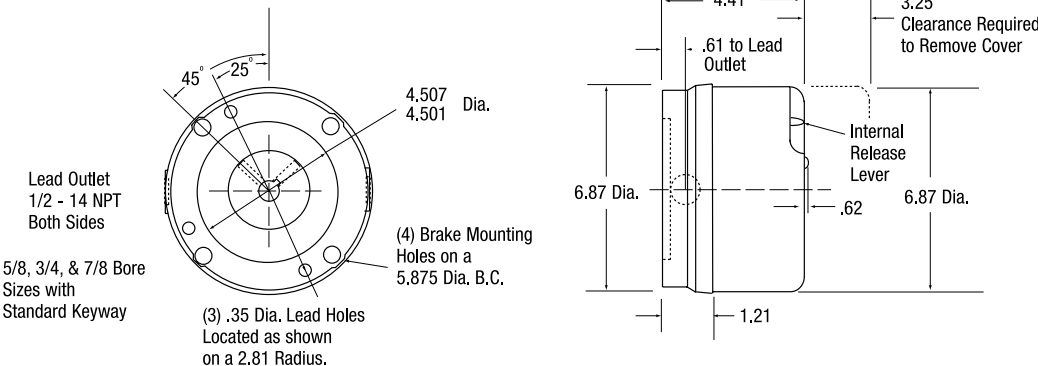
F Series UniBrakes

C-Face AC Rear-Mounted Brakes with NEMA 2 Housing

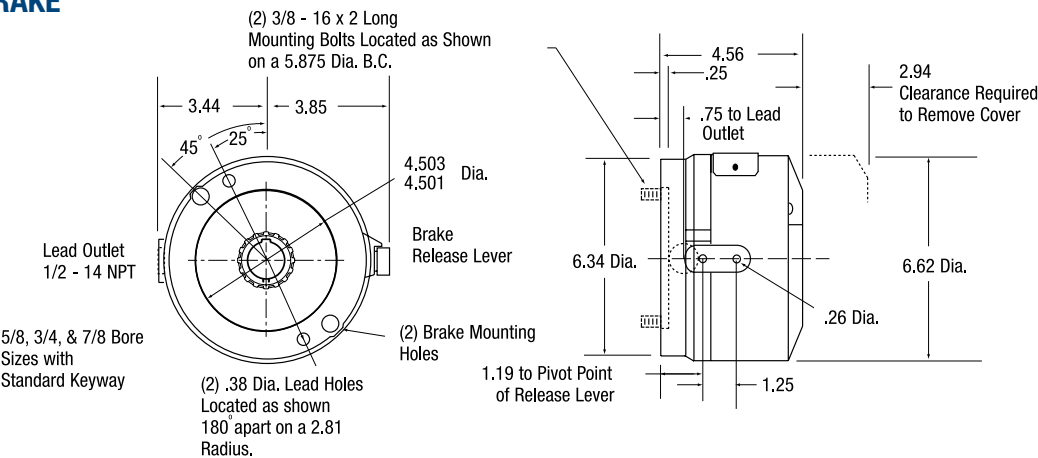
Aluminum Head-Steel Cover

56,100 NEMA 2

Stearns®



Warner UNIBRAKE



UNIBRAKE Interchange

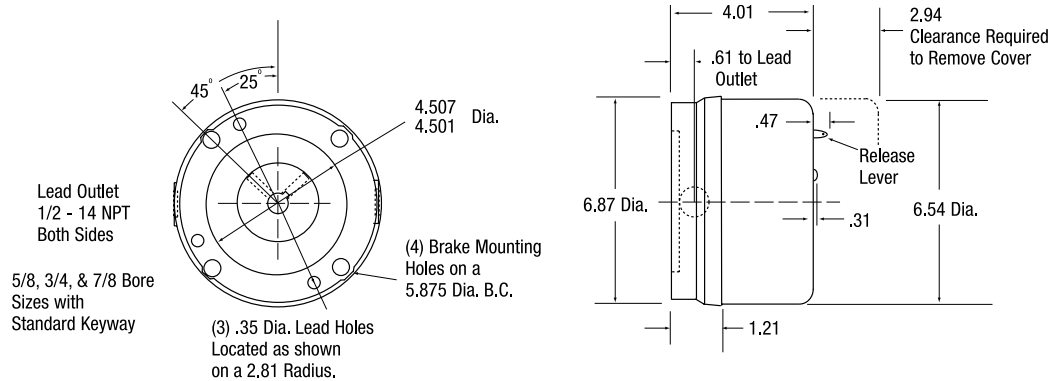
Stearns® Part Number	Warner Electric Replacement
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1-056-111-00-BOF	F51A0328-W
1-056-111-00-BPF	F51A0321-W
1-056-111-00-BQF	F51A0324-W
1-056-111-00-CNF	F51B0325-W
1-056-111-00-COF	F51B0328-W
1-056-111-00-CPF	F51B0321-W
1-056-111-00-CQF	F51B0324-W
1-056-111-00-DNF	F51C0325-W
1-056-111-00-DOF	F51C0328-W
1-056-111-00-DPF	F51C0321-W
1-056-111-00-DQF	F51C0324-W
1-056-121-00-BNF	F51A0625-W
1-056-121-00-BOF	F51A0628-W
1-056-121-00-BPF	F51A0621-W
1-056-121-00-BQF	F51A0624-W

Stearns® Part Number	Warner Electric Replacement
1-056-121-00-CNF	F51B0625-W
1-056-121-00-COF	F51B0628-W
1-056-121-00-CPF	F51B0621-W
1-056-121-00-CQF	F51B0624-W
1-056-121-00-DNF	F51C0625-W
1-056-121-00-DOF	F51C0628-W
1-056-121-00-DPF	F51C0621-W
1-056-121-00-DQF	F51C0624-W
1-056-131-00-BNF	F52A0725-W
1-056-131-00-BOF	F52A0728-W
1-056-131-00-BPF	F52A0721-W
1-056-131-00-BQF	F52A0724-W
1-056-131-00-CNF	F52B0725-W
1-056-131-00-COF	F52B0728-W
1-056-131-00-CPF	F52B0721-W
1-056-131-00-CQF	F52B0724-W

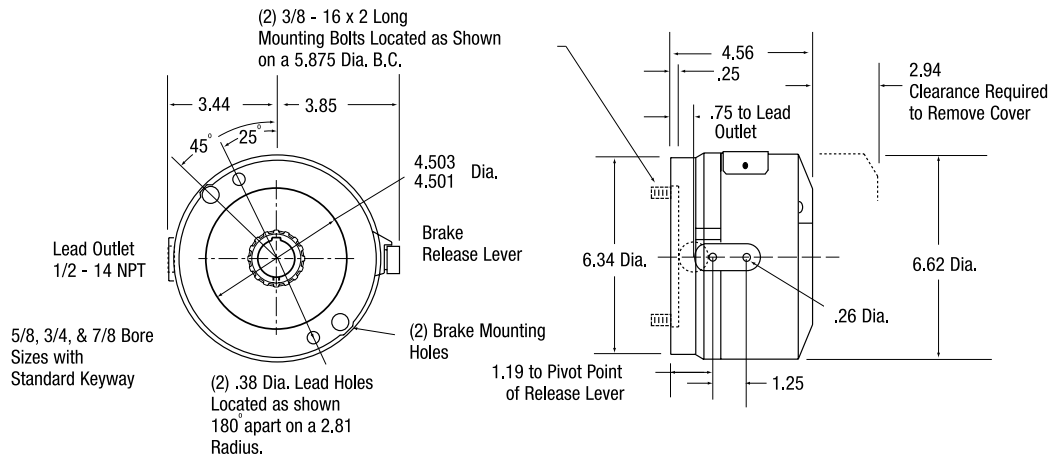
Stearns® Part Number	Warner Electric Replacement
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1-056-131-00-DOF	F52C0728-W
1-056-131-00-DPF	F52C0721-W
1-056-131-00-DQF	F52C0724-W
1-056-141-00-BNF	F53A0825-W
1-056-141-00-BOF	F53A0828-W
1-056-141-00-BPF	F53A0821-W
1-056-141-00-BQF	F53A0824-W
1-056-141-00-CNF	F53B0825-W
1-056-141-00-COF	F53B0828-W
1-056-141-00-CPF	F53B0821-W
1-056-141-00-CQF	F53B0824-W
1-056-141-00-DNF	F53C0825-W
1-056-141-00-DOF	F53C0828-W
1-056-141-00-DPF	F53C0821-W
1-056-141-00-DQF	F53C0824-W

C-Face AC Rear-Mounted Brakes with NEMA 1 Housing Aluminum Head-Steel Cover 56,300 NEMA 1

Stearns®



Warner UNIBRAKE



UNIBRAKE Interchange

Stearns® Part Number	Warner Electric Replacement
1-056-311-00-BNF	F51A0325-W
1-056-311-00-BOF	F51A0328-W
1-056-311-00-BPF	F51A0321-W
1-056-311-00-BQF	F51A0324-W
1-056-311-00-CNF	F51B0325-W
1-056-311-00-COF	F51B0328-W
1-056-311-00-CPF	F51B0321-W
1-056-311-00-CQF	F51B0324-W
1-056-311-00-DNF	F51C0325-W
1-056-311-00-DOF	F51C0328-W
1-056-311-00-DPF	F51C0321-W
1-056-311-00-DQF	F51C0324-W
1-056-321-00-BNF	F51A0625-W
1-056-321-00-BOF	F51A0628-W
1-056-321-00-BPF	F51A0621-W
1-056-321-00-BQF	F51A0624-W

Stearns® Part Number	Warner Electric Replacement
1-056-321-00-CNF	F51B0625-W
1-056-321-00-COF	F51B0628-W
1-056-321-00-CPF	F51B0621-W
1-056-321-00-CQF	F51B0624-W
1-056-321-00-DNF	F51C0625-W
1-056-321-00-DOF	F51C0628-W
1-056-321-00-DPF	F51C0621-W
1-056-321-00-DQF	F51C0624-W
1-056-331-00-BNF	F52A0725-W
1-056-331-00-BOF	F52A0728-W
1-056-331-00-BPF	F52A0721-W
1-056-331-00-BQF	F52A0724-W
1-056-331-00-CNF	F52B0725-W
1-056-331-00-COF	F52B0728-W
1-056-331-00-CPF	F52B0721-W
1-056-331-00-CQF	F52B0724-W

Stearns® Part Number	Warner Electric Replacement
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1-056-331-00-DOF	F52C0728-W
1-056-331-00-DPF	F52C0721-W
1-056-331-00-DQF	F52C0724-W
1-056-341-00-BNF	F53A0825-W
1-056-341-00-BOF	F53A0828-W
1-056-341-00-BPF	F53A0821-W
1-056-341-00-BQF	F53A0824-W
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1-056-341-00-DOF	F53C0828-W
1-056-341-00-DPF	F53C0821-W
1-056-341-00-DQF	F53C0824-W

F Series UniBrakes

C-Face AC Rear-Mounted Brakes with NEMA 2 Housing

Cast Iron Head-Steel Cover

56,400 NEMA 2

Warner Electric Single C-Face Power-Off Brakes are designed to decelerate or hold inertia loads when the power is turned off. The single C-Face mounts on the non-driven end of a motor. Brakes are available from 3 ft. lb. to 15 ft. lb.

Features:

- External manual release lever
- Totally enclosed construction
- Torque adjustable from full-rated torque down to 50%
- Single-phase AC coils to provide fast release times and easy wiring
- Single C-Face



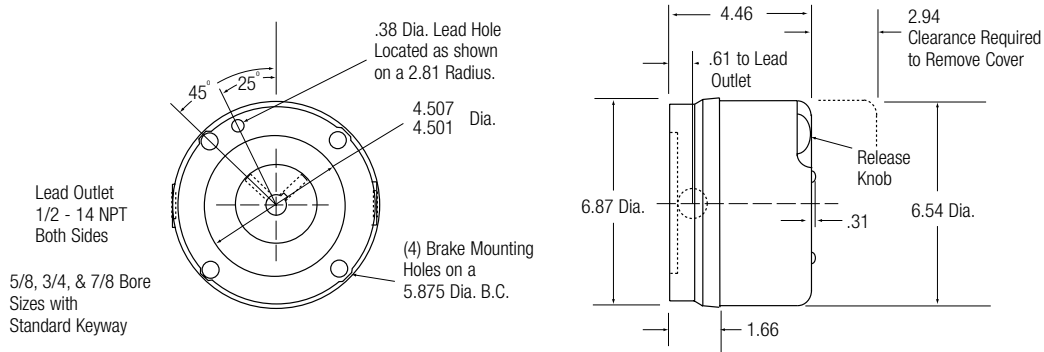
Brake Part Numbers

Technical Data

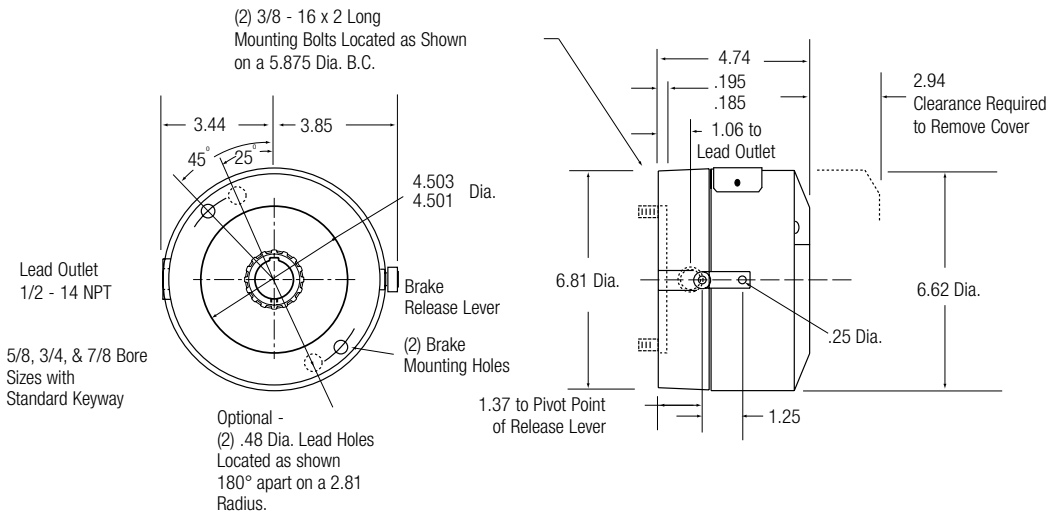
Coil Voltage	3 ft. lb. Brakes (1 Disc)	6 ft. lb. Brakes (1 Disc)	10 ft. lb. Brakes (2 Discs)	15 ft. lb. Brakes (3 Discs)	Current Holding Amps	Current Inrush Amps
5/8 Bore Hub						
115/230, 60 HZ	F51A7321-W	F51A7621-W	F52A7721-W	F53A7821-W	.50/.25	3.66/1.83
230/460, 60 HZ	F51A7324-W	F51A7624-W	F52A7724-W	F53A7824-W	.28/.14	1.94/.97
287/575, 60 HZ	F51A7325-W	F51A7625-W	F52A7725-W	F53A7825-W	.22/.11	1.54/.77
115/230, 50 HZ	F51A7328-W	F51A7628-W	F52A7728-W	F53A7828-W	.45/.22	3.27/1.64
230/460, 50 HZ	F51A7329-W	F51A7629-W	F52A7729-W	F53A7829-W	.24/.12	1.76/.88
3/4 Bore Hub						
115/230, 60 HZ	F51B7321-W	F51B7621-W	F52B7721-W	F53B7821-W	.50/.25	3.66/1.83
230/460, 60 HZ	F51B7324-W	F51B7624-W	F52B7724-W	F53B7824-W	.28/.14	1.94/.97-W
287/575, 60 HZ	F51B7325-W	F51B7625-W	F52B7725-W	F53B7825-W	.22/.11	1.54/.77
115/230, 50 HZ	F51B7328-W	F51B7628-W	F52B7728-W	F53B7828-W	.45/.22	3.27/1.64
230/460, 50 HZ	F51B7329-W	F51B7629-W	F52B7729-W	F53B7829-W	.24/.12	1.76/.88
7/8 Bore Hub						
115/230, 60 HZ	F51C7321-W	F51C7621-W	F52C7721-W	F53C7821-W	.50/.25	3.66/1.83
230/460, 60 HZ	F51C7324-W	F51C7624-W	F52C7724-W	F53C7824-W	.28/.14	1.94/.97
287/575, 60 HZ	F51C7325-W	F51C7625-W	F52C7725-W	F53C7825-W	.22/.11	1.54/.77
115/230, 50 HZ	F51C7328-W	F51C7628-W	F52C7728-W	F53C7828-W	.45/.22	3.27/1.64
230/460, 50 HZ	F51C7329-W	F51C7629-W	F52C7729-W	F53C7829-W	.24/.12	1.76/.88

C-Face AC Rear-Mounted Brakes with NEMA 2 Housing Cast Iron Head-Steel Cover 56,400 NEMA 2

Stearns®



Warner UNIBRAKE



UNIBRAKE Interchange

Stearns® Part Number	Warner Electric Replacement
1-056-411-00-BNF	F51A7325-W
1-056-411-00-BOF	F51A7328-W
1-056-411-00-BPF	F51A7321-W
1-056-411-00-BQF	F51A7324-W
1-056-411-00-CNF	F51B7325-W
1-056-411-00-COF	F51B7328-W
1-056-411-00-CPF	F51B7321-W
1-056-411-00-CQF	F51B7324-W
1-056-411-00-DNF	F51C7325-W
1-056-411-00-DOF	F51C7328-W
1-056-411-00-DPF	F51C7321-W
1-056-411-00-DQF	F51C7324-W
1-056-421-00-BNF	F51A7625-W
1-056-421-00-BOF	F51A7628-W
1-056-421-00-BPF	F51A7621-W
1-056-421-00-BQF	F51A7624-W

Stearns® Part Number	Warner Electric Replacement
1-056-421-00-CNF	F51B7625-W
1-056-421-00-COF	F51B7628-W
1-056-421-00-CPF	F51B7621-W
1-056-421-00-CQF	F51B7624-W
1-056-421-00-DNF	F51C7625-W
1-056-421-00-DOF	F51C7628-W
1-056-421-00-DPF	F51C7621-W
1-056-421-00-DQF	F51C7624-W
1-056-431-00-BNF	F52A7725-W
1-056-431-00-BOF	F52A7728-W
1-056-431-00-BPF	F52A7721-W
1-056-431-00-BQF	F52A7724-W
1-056-431-00-CNF	F52B7725-W
1-056-431-00-COF	F52B7728-W
1-056-431-00-CPF	F52B7721-W
1-056-431-00-CQF	F52B7724-W

Stearns® Part Number	Warner Electric Replacement
1-056-431-00-DNF	F52C7725-W
1-056-431-00-DOF	F52C7728-W
1-056-431-00-DPF	F52C7721-W
1-056-431-00-DQF	F52C7724-W
1-056-441-00-BNF	F53A7825-W
1-056-441-00-BOF	F53A7828-W
1-056-441-00-BPF	F53A7821-W
1-056-441-00-BQF	F53A7824-W
1-056-441-00-CNF	F53B7825-W
1-056-441-00-COF	F53B7828-W
1-056-441-00-CPF	F53B7821-W
1-056-441-00-CQF	F53B7824-W
1-056-441-00-DNF	F53C7825-W
1-056-441-00-DOF	F53C7828-W
1-056-441-00-DPF	F53C7821-W
1-056-441-00-DQF	F53C7824-W

F Series UniBrakes

C-Face AC Rear-Mounted Brakes with NEMA 2 Housing Cast Iron Head and Cover 56,200 NEMA 2

Warner Electric Single C-Face Power-Off Brake is also available with cast iron housing for applications involving corrosive environments. Brakes are available from 3 ft. lb. to 15 ft. lb.

Features:

- External manual release lever
- Totally enclosed construction
- Torque adjustable from full-rated torque down to 50%
- Single-phase AC coils to provide fast release times and easy wiring
- Single C-Face



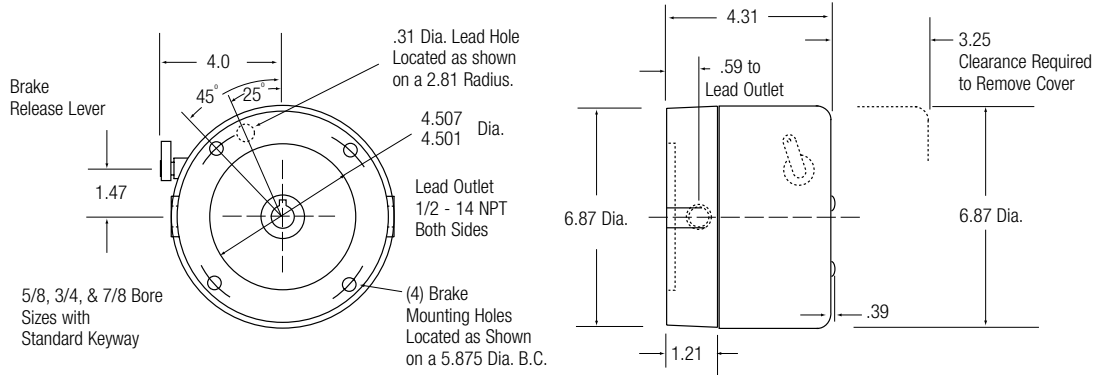
Brake Part Numbers

Technical Data

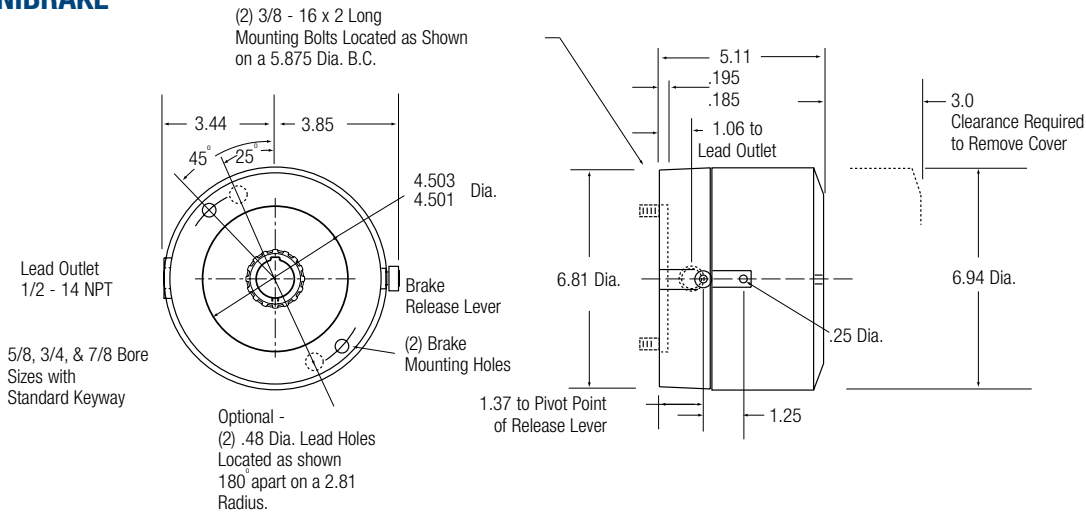
Coil Voltage	3 ft. lb. Brakes (1 Disc)	6 ft. lb. Brakes (1 Disc)	10 ft. lb. Brakes (2 Discs)	15 ft. lb. Brakes (3 Discs)	Current Holding Amps	Current Inrush Amps
5/8 Bore Hub						
115/230, 60 HZ	F51A8311-W	F51A8611-W	F52A8711-W	F53A8811-W	.50/.25	3.66/1.83
230/460, 60 HZ	F51A8314-W	F51A8614-W	F52A8714-W	F53A8814-W	.28/.14	1.94/.97
287/575, 60 HZ	F51A8315-W	F51A8615-W	F52A8715-W	F53A8815-W	.22/.11	1.54/.77
115/230, 50 HZ	F51A8318-W	F51A8618-W	F52A8718-W	F53A8818-W	.45/.22	3.27/1.64
230/460, 50 HZ	F51A8319-W	F51A8619-W	F52A8719-W	F53A8819-W	.24/.12	1.76/.88
3/4 Bore Hub						
115/230, 60 HZ	F51B8311-W	F51B8611-W	F52B8711-W	F53B8811-W	.50/.25	3.66/1.83
230/460, 60 HZ	F51B8314-W	F51B8614-W	F52B8714-W	F53B8814-W	.28/.14	1.94/.97
287/575, 60 HZ	F51B8315-W	F51B8615-W	F52B8715-W	F53B8815-W	.22/.11	1.54/.77
115/230, 50 HZ	F51B8318-W	F51B8618-W	F52B8718-W	F53B8818-W	.45/.22	3.27/1.64
230/460, 50 HZ	F51B8319-W	F51B8619-W	F52B8719-W	F53B8819-W	.24/.12	1.76/.88
7/8 Bore Hub						
115/230, 60 HZ	F51C8311-W	F51C8611-W	F52C8711-W	F53C8811-W	.50/.25	3.66/1.83
230/460, 60 HZ	F51C8314-W	F51C8614-W	F52C8714-W	F53C8814-W	.28/.14	1.94/.97
287/575, 60 HZ	F51C8315-W	F51C8615-W	F52C8715-W	F53C8815-W	.22/.11	1.54/.77
115/230, 50 HZ	F51C8318-W	F51C8618-W	F52C8718-W	F53C8818-W	.45/.22	3.27/1.64
230/460, 50 HZ	F51C8319-W	F51C8619-W	F52C8719-W	F53C8819-W	.24/.12	1.76/.88

C-Face AC Rear-Mounted Brakes with NEMA 2 Housing Cast Iron Head and Cover 56,200 NEMA 2

Stearns®



Warner UNIBRAKE



UNIBRAKE Interchange

Stearns® Part Number	Warner Electric Replacement
1-056-211-00-BNF	F51A8315-W
1-056-211-00-BOF	F51A8318-W
1-056-211-00-BPF	F51A8311-W
1-056-211-00-BQF	F51A8314-W
1-056-211-00-CNF	F51B8315-W
1-056-211-00-COF	F51B8318-W
1-056-211-00-CPF	F51B8311-W
1-056-211-00-CQF	F51B8314-W
1-056-211-00-DNF	F51C8315-W
1-056-211-00-DOF	F51C8318-W
1-056-211-00-DPF	F51C8311-W
1-056-211-00-DQF	F51C8314-W
1-056-221-00-BNF	F51A8615-W
1-056-221-00-BOF	F51A8618-W
1-056-221-00-BPF	F51A8611-W
1-056-221-00-BQF	F51A8614-W

Stearns® Part Number	Warner Electric Replacement
1-056-221-00-CNF	F51B8615-W
1-056-221-00-COF	F51B8618-W
1-056-221-00-CPF	F51B8611-W
1-056-221-00-CQF	F51B8614-W
1-056-221-00-DNF	F51C8615-W
1-056-221-00-DOF	F51C8618-W
1-056-221-00-DPF	F51C8611-W
1-056-221-00-DQF	F51C8614-W
1-056-231-00-BNF	F52A8715-W
1-056-231-00-BOF	F52A8718-W
1-056-231-00-BPF	F52A8711-W
1-056-231-00-BQF	F52A8714-W
1-056-231-00-CNF	F52B8715-W
1-056-231-00-COF	F52B8718-W
1-056-231-00-CPF	F52B8711-W
1-056-231-00-CQF	F52B8714-W

Stearns® Part Number	Warner Electric Replacement
1-056-231-00-DNF	F52C8715-W
1-056-231-00-DOF	F52C8718-W
1-056-231-00-DPF	F52C8711-W
1-056-231-00-DQF	F52C8714-W
1-056-241-00-BNF	F53A8815-W
1-056-241-00-BOF	F53A8818-W
1-056-241-00-BPF	F53A8811-W
1-056-241-00-BQF	F53A8814-W
1-056-241-00-CNF	F53B8815-W
1-056-241-00-COF	F53B8818-W
1-056-241-00-CPF	F53B8811-W
1-056-241-00-CQF	F53B8814-W
1-056-241-00-DNF	F53C8815-W
1-056-241-00-DOF	F53C8818-W
1-056-241-00-DPF	F53C8811-W
1-056-241-00-DQF	F53C8814-W

F Series UniBrakes

C-Face AC Rear-Mounted Brakes with NEMA 4 Housing

Cast Iron Head and Cover

56,200 NEMA 4

Warner Electric Single C-Face Power-Off Brake is also available with cast iron housing for applications involving corrosive environments. The heavy-duty housing also includes o-ring seals to create a dust-tight brake. Brakes are available from 3 ft. lb. to 15 ft. lb.

Features:

- External manual release lever
- Totally enclosed construction
- Torque adjustable from full-rated torque down to 50%
- Single-phase AC coils to provide fast release times and easy wiring
- Single C-Face



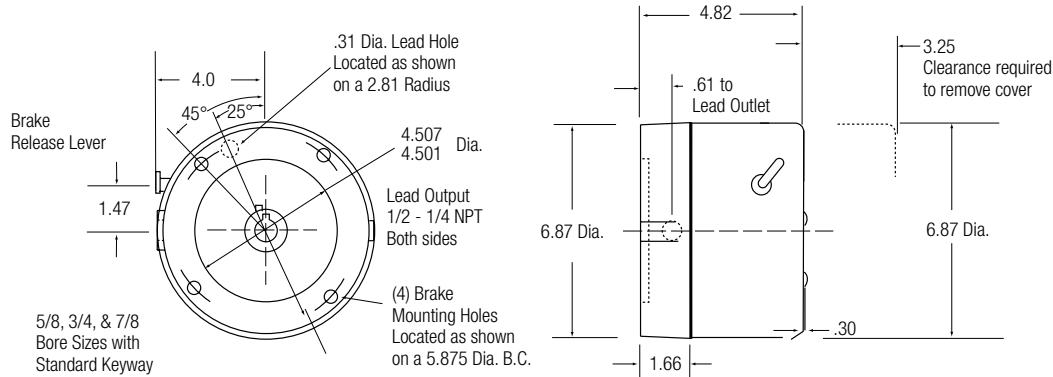
Brake Part Numbers

Technical Data

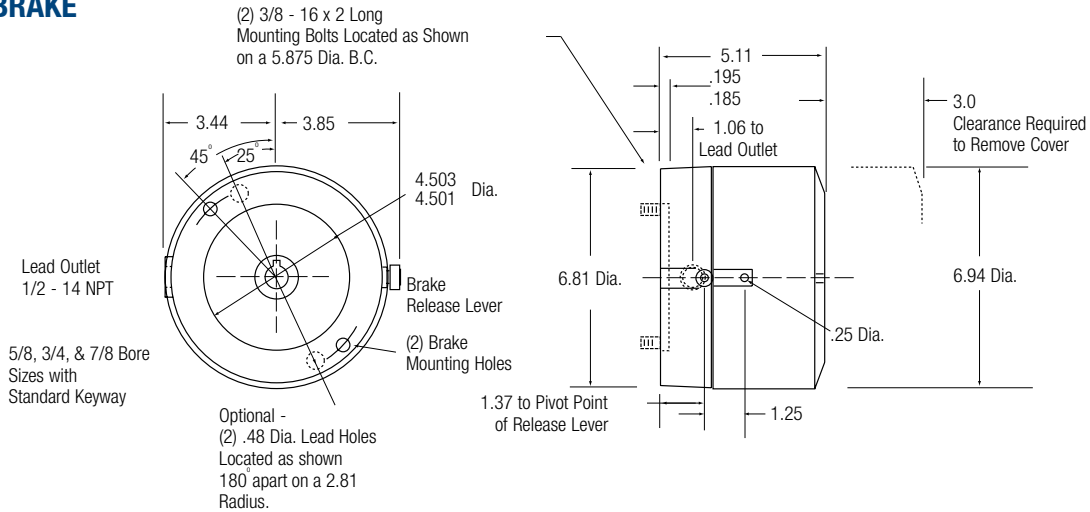
Coil Voltage	3 ft. lb. Brakes (1 Disc)	6 ft. lb. Brakes (1 Disc)	10 ft. lb. Brakes (2 Discs)	15 ft. lb. Brakes (3 Discs)	Current Holding Amps	Current Inrush Amps
5/8 Bore Hub						
115/230, 60 HZ	F51A1311-W	F51A1611-W	F52A1711-W	F53A1811-W	.50/.25	3.66/1.83
230/460, 60 HZ	F51A1314-W	F51A1614-W	F52A1714-W	F53A1814-W	.28/.14	1.94/.97
287/575, 60 HZ	F51A1315-W	F51A1615-W	F52A1715-W	F53A1815-W	.22/.11	1.54/.77
115/230, 50 HZ	F51A1318-W	F51A1618-W	F52A1718-W	F53A1818-W	.45/.22	3.27/1.64
230/460, 50 HZ	F51A1319-W	F51A1619-W	F52A1719-W	F53A1819-W	.24/.12	1.76/.88
3/4 Bore Hub						
115/230, 60 HZ	F51B1311-W	F51B1611-W	F52B1711-W	F53B1811-W	.50/.25	3.66/1.83
230/460, 60 HZ	F51B1314-W	F51B1614-W	F52B1714-W	F53B1814-W	.28/.14	1.94/.97
287/575, 60 HZ	F51B1315-W	F51B1615-W	F52B1715-W	F53B1815-W	.22/.11	1.54/.77
115/230, 50 HZ	F51B1318-W	F51B1618-W	F52B1718-W	F53B1818-W	.45/.22	3.27/1.64
230/460, 50 HZ	F51B1319-W	F51B1619-W	F52B1719-W	F53B1819-W	.24/.12	1.76/.88
7/8 Bore Hub						
115/230, 60 HZ	F51C1311-W	F51C1611-W	F52C1711-W	F53C1811-W	.50/.25	3.66/1.83
230/460, 60 HZ	F51C1314-W	F51C1614-W	F52C1714-W	F53C1814-W	.28/.14	1.94/.97
287/575, 60 HZ	F51C1315-W	F51C1615-W	F52C1715-W	F53C1815-W	.22/.11	1.54/.77
115/230, 50 HZ	F51C1318-W	F51C1618-W	F52C1718-W	F53C1818-W	.45/.22	3.27/1.64
230/460, 50 HZ	F51C1319-W	F51C1619-W	F52C1719-W	F53C1819-W	.24/.12	1.76/.88

C-Face AC Rear-Mounted Brakes with NEMA 4 Housing Cast Iron Head and Cover 56,200 NEMA 4

Stearns®



Warner UNIBRAKE



UNIBRAKE Interchange

Stearns® Part Number	Warner Electric Replacement
1-056-212-00-BNF	F51A1315-W
1-056-212-00-BOF	F51A1318-W
1-056-212-00-BPF	F51A1311-W
1-056-212-00-BQF	F51A1314-W
1-056-212-00-CNF	F51B1315-W
1-056-212-00-COF	F51B1318-W
1-056-212-00-CPF	F51B1311-W
1-056-212-00-CQF	F51B1314-W
1-056-212-00-DNF	F51C1315-W
1-056-212-00-DOF	F51C1318-W
1-056-212-00-DPF	F51C1311-W
1-056-212-00-DQF	F51C1314-W
1-056-222-00-BNF	F51A1615-W
1-056-222-00-BOF	F51A1618-W
1-056-222-00-BPF	F51A1611-W
1-056-222-00-BQF	F51A1614-W

Stearns® Part Number	Warner Electric Replacement
1-056-222-00-CNF	F51B1615-W
1-056-222-00-COF	F51B1618-W
1-056-222-00-CPF	F51B1611-W
1-056-222-00-CQF	F51B1614-W
1-056-222-00-DNF	F51C1615-W
1-056-222-00-DOF	F51C1618-W
1-056-222-00-DPF	F51C1611-W
1-056-222-00-DQF	F51C1614-W
1-056-232-00-BNF	F52A1715-W
1-056-232-00-BOF	F52A1718-W
1-056-232-00-BPF	F52A1711-W
1-056-232-00-BQF	F52A1714-W
1-056-232-00-CNF	F52B1715-W
1-056-232-00-COF	F52B1718-W
1-056-232-00-CPF	F52B1711-W
1-056-232-00-CQF	F52B1714-W

Stearns® Part Number	Warner Electric Replacement
1-056-232-00-DNF	F52C1715-W
1-056-232-00-DOF	F52C1718-W
1-056-232-00-DPF	F52C1711-W
1-056-232-00-DQF	F52C1714-W
1-056-242-00-BNF	F53A1815-W
1-056-242-00-BOF	F53A1818-W
1-056-242-00-BPF	F53A1811-W
1-056-242-00-BQF	F53A1814-W
1-056-242-00-CNF	F53B1815-W
1-056-242-00-COF	F53B1818-W
1-056-242-00-CPF	F53B1811-W
1-056-242-00-CQF	F53B1814-W
1-056-242-00-DNF	F53C1815-W
1-056-242-00-DOF	F53C1818-W
1-056-242-00-DPF	F53C1811-W
1-056-242-00-DQF	F53C1814-W

M Series UniBrakes

Double C-Face AC Coupler Brakes with NEMA 2 Housing

Aluminum Head and Cover

56,700 NEMA 2

The Double C-Face brake is designed for use as a coupler between standard C-Face motors and C-Face gear reducers.

Features:

- External manual release lever
- Totally enclosed construction
- Torque adjustable from full-rated torque down to 50%
- Single-phase AC coils to provide fast release times and easy wiring



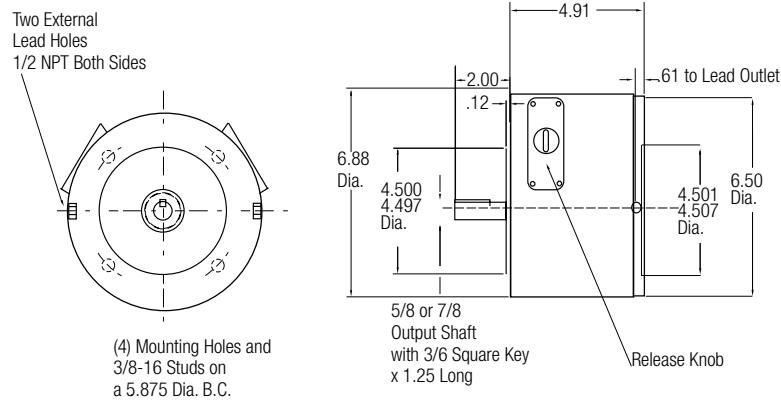
Brake Part Numbers

Technical Data

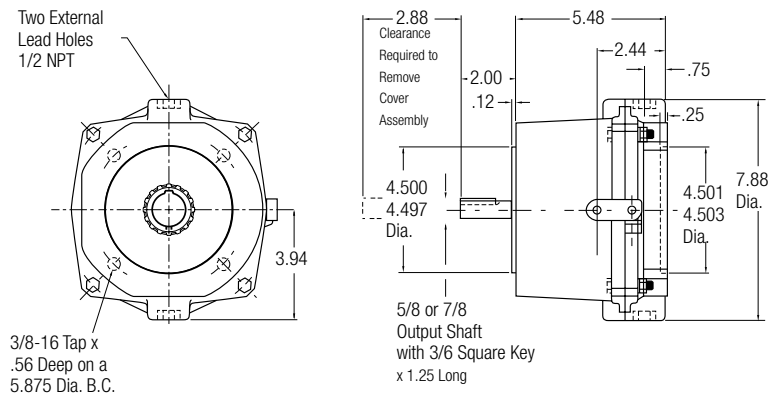
Coil Voltage	3 ft. lb. Brakes (1 Disc)	6 ft. lb. Brakes (1 Disc)	10 ft. lb. Brakes (2 Discs)	Current Holding Amps	Current Inrush Amps
5/8 Bore Shaft and Hub (56C)					
115/230, 60 HZ	M51A0321-W	M51A0621-W	M52A0721-W	.50/.25	3.66/1.83
230/460, 60 HZ	M51A0324-W	M51A0624-W	M52A0724-W	.28/.14	1.94/.97
287/575, 60 HZ	M51A0325-W	M51A0625-W	M52A0725-W	.22/.11	1.54/.77
115/230, 50 HZ	M51A0328-W	M51A0628-W	M52A0728-W	.45/.22	3.27/1.64
230/460, 50 HZ	M51A0329-W	M51A0629-W	M52A0729-W	.24/.12	1.76/.88
7/8 Bore Shaft and Hub (145TC)					
115/230, 60 HZ	M51C0321-W	M51C0621-W	M52C0721-W	.50/.25	3.66/1.83
230/460, 60 HZ	M51C0324-W	M51C0624-W	M52C0724-W	.28/.14	1.94/.97
287/575, 60 HZ	M51C0325-W	M51C0625-W	M52C0725-W	.22/.11	1.54/.77
115/230, 50 HZ	M51C0328-W	M51C0628-W	M52C0728-W	.45/.22	3.27/1.64
230/460, 50 HZ	M51C0329-W	M51C0629-W	M52C0729-W	.24/.12	1.76/.88

Double C-Face AC Coupler Brakes with NEMA 2 Housing Aluminum Head and Cover 56,700 NEMA 2

Stearns®



Warner UNIBRAKE



UNIBRAKE Interchange

Stearns® Part Number	Warner Electric Replacement
1-056-711-05-NF	M51A0325-W
1-056-711-05-OF	M51A0328-W
1-056-711-05-PF	M51A0321-W
1-056-711-05-QF	M51A0324-W
1-056-711-07-NF	M51C0325-W
1-056-711-07-OF	M51C0328-W
1-056-711-07-PF	M51C0321-W
1-056-711-07-QF	M51C0324-W

Stearns® Part Number	Warner Electric Replacement
1-056-721-05-NF	M51A0625-W
1-056-721-05-OF	M51A0628-W
1-056-721-05-PF	M51A0621-W
1-056-721-05-QF	M51A0624-W
1-056-721-07-NF	M51C0625-W
1-056-721-07-OF	M51C0628-W
1-056-721-07-PF	M51C0621-W
1-056-721-07-QF	M51C0624-W

Stearns® Part Number	Warner Electric Replacement
1-056-731-05-NF	M52A0725-W
1-056-731-05-OF	M52A0728-W
1-056-731-05-PF	M52A0721-W
1-056-731-05-QF	M52A0724-W
1-056-731-07-NF	M52C0725-W
1-056-731-07-OF	M52C0728-W
1-056-731-07-PF	M52C0721-W
1-056-731-07-QF	M52C0724-W

M Series UniBrakes

Double C-Face DC Coupler Brakes with NEMA 2 Housing

Aluminum Head and Cover

56,700 NEMA 2

The Double C-Face Brake is designed for use as a coupler between standard C-Face motors and C-Face gear reducers.

Features:

- External manual release lever
- Totally enclosed construction
- Torque adjustable from full-rated torque down to 50%
- DC coils to provide fast release times and easy wiring



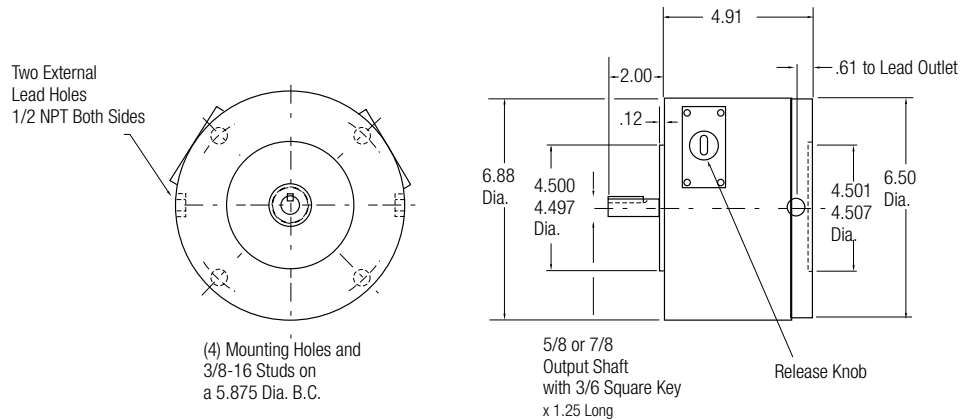
Brake Part Numbers

Technical Data

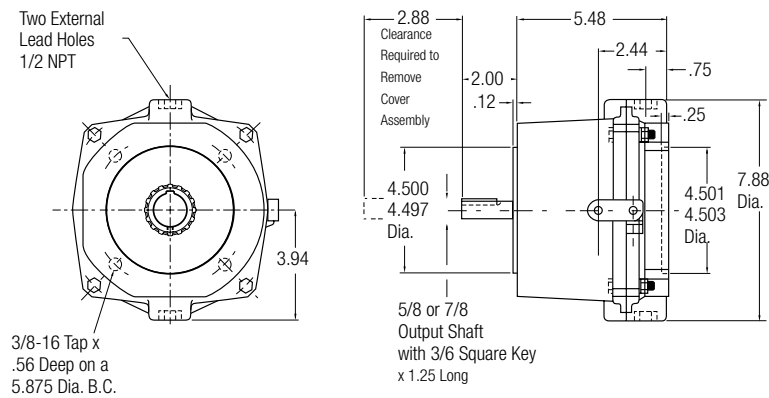
Coil Voltage	3 ft. lb. Brakes (1 Disc)	6 ft. lb. Brakes (2 Disc)	10 ft. lb. Brakes (3 Discs)	Current Holding Amps	Current Inrush Amps
5/8 Bore Shaft and Hub (56C)					
24 VDC	M51A032Y-W	M52A062Y-W	M53A072Y-W	.91	26.4
90 VDC	M51A032X-W	M52A062X-W	M53A072X-W	.25	365
7/8 Bore Shaft and Hub (145TC)					
24 VDC	M51C032Y-W	M52C062Y-W	M53C072Y-W	.91	26.4
90 VDC	M51C032X-W	M52C062X-W	M53C072X-W	.25	365

Double C-Face DC Coupler Brakes with NEMA 2 Housing Aluminum Head and Cover 56,700 NEMA 2

Stearns®



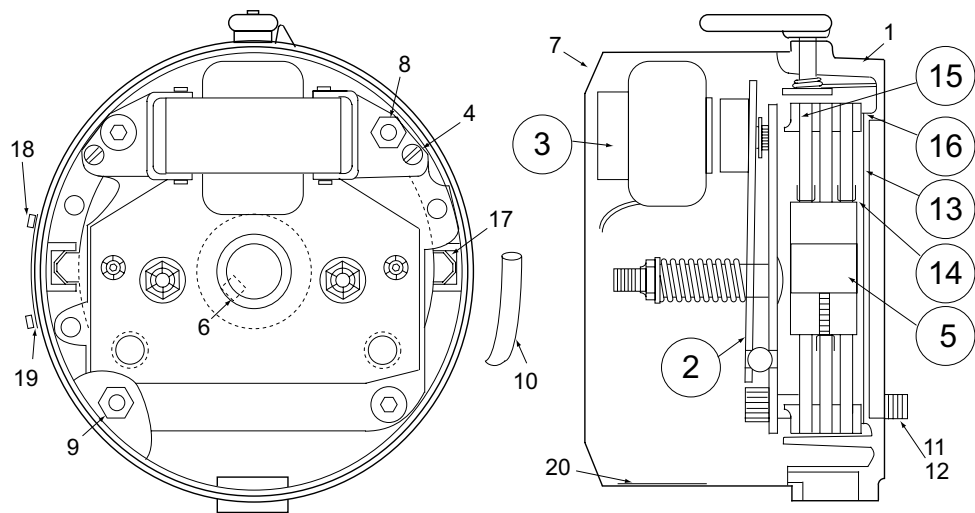
Warner UNIBRAKE



UNIBRAKE Interchange

Stearns® Part Number	Warner Electric Replacement
1-056-711-05-UF	M51A032Y-W
1-056-711-05-XF	M51A032X-W
1-056-711-07-UF	M51C032Y-W
1-056-711-07-XF	M51C032X-W
1-056-721-05-UF	M52A062Y-W
1-056-721-05-XF	M52A062X-W
1-056-721-07-UF	M52C062Y-W
1-056-721-07-XF	M52C062X-W
1-056-731-05-UF	M53A072Y-W
1-056-731-05-XF	M53A072X-W
1-056-731-07-UF	M53C072Y-W
1-056-731-07-XF	M53C072X-W

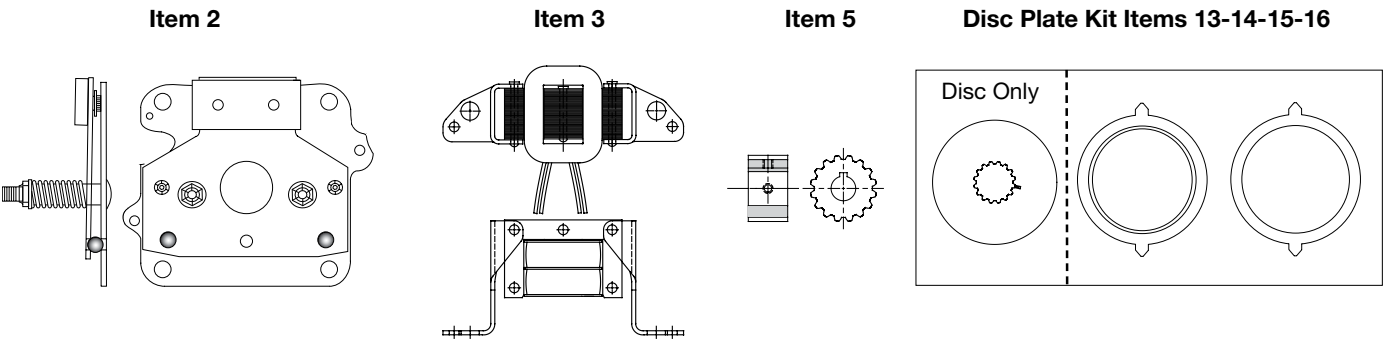
F-Series AC Rear-Mounted Brakes



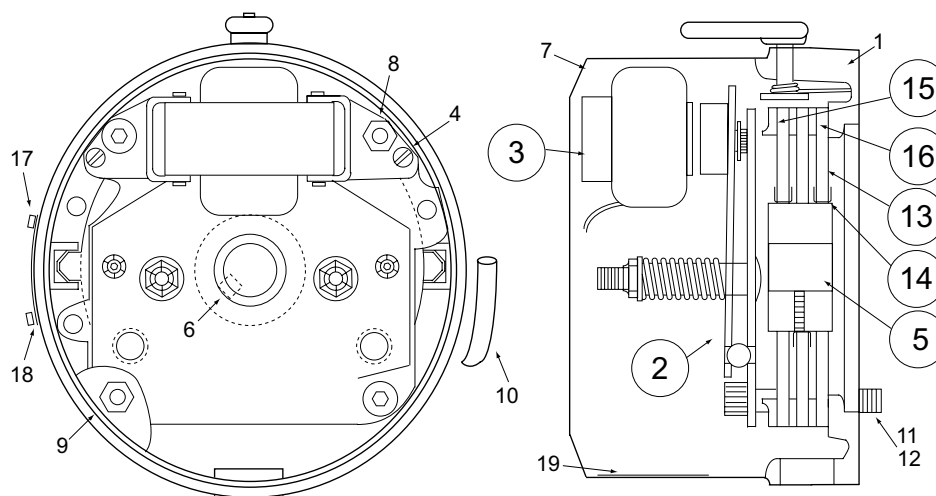
Component Parts

Item	Description		Part No.	Qty.
2	Support & Armature Plate Assembly	6, 10, & 15 ft.lb.	79060-07-A	1
		3 ft.lb.	79060-07-B	1
3	Coil and Pole Assembly	275/550V 60HZ	79137-18-G	1
		230/460V 60HZ	79137-18-J	1
		115/230V 60HZ	79137-18-K	1
		200/400V 60HZ	79137-18-L	1
		208/416V 50HZ	79137-18-M	1
		115/230V 50HZ	79137-18-N	1
		230/460V 50HZ	79137-18-P	1
5	Hub Assembly	5/8 Bore	58D22	1
		3/4 Bore	58D23	1
		7/8 Bore	58D24	1
13	Brake Disc (Individual)		327213	1
13,14 15,16	Disc Plate Kit (Includes Disc & Pressure Plates)	3 & 6 ft.lb. (1 disc)	327212-1	1
		10 ft.lb. (2 discs)	327212-2	1
		15 ft.lb. (3 discs)	327212-3	1

Item	Description
1	Brake Head Machined
4	10-32 X 5/16 Slotted Hex Head With Split LW
6	3/16" SQR X 1" Key
7	Brake Cover
8	Stud Extension
9	10-32 Hex Nut
10	Insulating Sleeve
11	3/8-16 X 2-1/4" Socket Cap Screw
12	3/8" Hi-Collar Lock Washer
17	Anti Rattle Spacer
18	6-32 X 1/4" Hex Washer Head Screw
19	Nameplate
20	Instruction Label



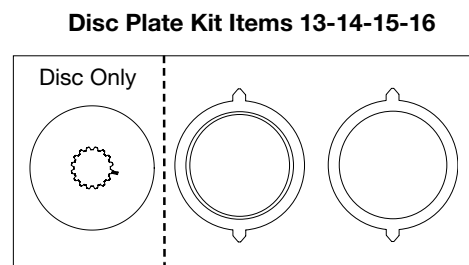
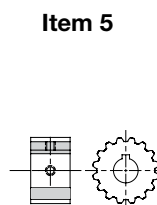
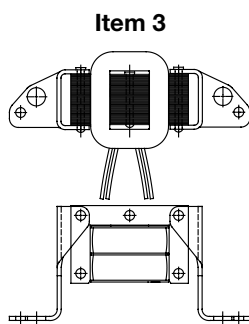
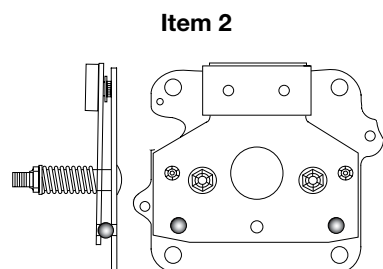
F-Series AC Rear-Mounted Brakes



Component Parts

Item	Description		Part No.	Qty.
2	Support & Armature Plate Assembly	6, 10, & 15 ft.lb.	79060-07-A	1
		3 ft.lb.	79060-07-B	1
3	Coil and Pole Assembly	275/550V 60HZ	79137-18-G	1
		230/460V 60HZ	79137-18-J	1
		115/230V 60HZ	79137-18-K	1
		200/400V 60HZ	79137-18-L	1
		208/416V 50HZ	79137-18-M	1
		115/230V 50HZ	79137-18-N	1
		230/460V 50HZ	79137-18-P	1
5	Hub Assembly	5/8 Bore	58D22	1
		3/4 Bore	58D23	1
		7/8 Bore	58D24	1
13	Brake Disc (Individual)		327213	1
13,14 15,16	Disc Plate Kit (Includes Disc & Pressure Plates)	3 & 6 ft.lb. (1 disc)	327212-4	1
		10 ft.lb. (2 discs)	327212-5	1
		15 ft.lb. (3 discs)	327212-6	1

Item	Description
1	Brake Head Machined
4	10-32 X 5/16 Slotted Hex Head With Split LW
6	3/16" SQR X 1" Key
7	Brake Cover
8	Stud Extension
9	10-32 Hex Nut
10	Insulating Sleeve
11	3/8-16 X 2-1/2" Socket Cap Screw
12	3/8" Hi-Collar Lock Washer
17	6-32 X 1/4" Hex Washer Head Screw
18	Nameplate
19	Instruction Label



Service Parts

[illegible]

Packaged Performance Products Service Parts for Electrically Released Brakes

Spring-Set Brakes	
ERS Series Static Engaged Brakes	N/A
ERD Series Dual Purpose Engagement Brakes	N/A
UNIBRAKES AC Motor Brakes	SP-2



When replacing components in clutches and brakes several guidelines are appropriate. In all cases, when replacing worn friction surfaces both the components need to be replaced. In many cases, the splined hubs should be inspected and replaced if worn.

Common Replacement Practices:

Electrically released brakes

- On all Electrically released brakes the magnet and armature are only sold as a matched set and must be replaced as a set.

A note on burnishing:

When new friction surfaces are installed it will be necessary to burnish the unit prior to returning to full production rates. Burnishing is the act of wearing in the friction faces to ensure full engagement and therefore full torque. Burnishing is achieved by simply cycling the unit under less than full load (machine empty, if possible). Most units will achieve full torque in less than 100 cycles. Refer to the service manual for more details.