

Stainless Steel Double C-Faced Coupler Brake

Optimum Corrosion Resistance - for the food processing, chemical, and other industries with severe washdown-duty applications.

Benefits

- High corrosion resistance - long life
- Meets BISSC certification requirements
- Retrofit installed motors, that are without braking capability

Motor Requirements

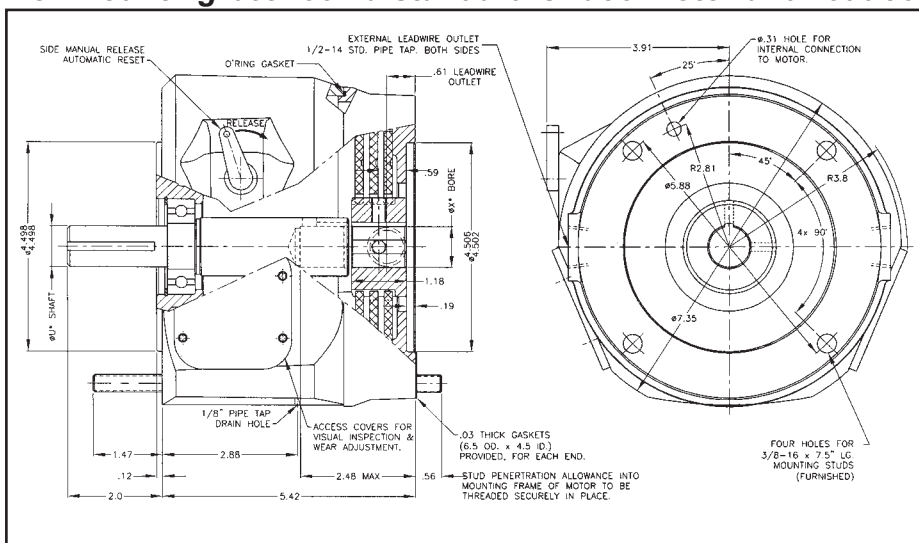
- NEMA 56C to 145TC motors
- 5/8" or 7/8" shaft

Features

- 3 lb-ft to 25 lb-ft (4 Nm - 34 Nm)
- IP56 Enclosure when installed per instructions (formerly referred to by Stearns as NEMA 4X)
- 300 series stainless steel enclosure and hardware
- Viton gaskets and o-rings
- No exposed painted surfaces
- External maintained manual release with automatic reset
- Universal mount (Horizontal/Vertical)
- Dual voltage / frequency coils available
- Spring-set, electrically released



For mounting between a standard C-face motor and reducer



Engineering Specifications

| Nominal Static Torque lb-ft (Nm) | No. of Friction Discs | Coil Size | | Maximum Solenoid Cycle Rate ⁽¹⁾ | | Thermal Capacity ⁽²⁾ | | Inertia (Wk ²) Lb - ft ² (kgm ² x 10 ⁻⁴) |
|--|-----------------------|-----------|-----|--|----|---------------------------------|-------------|--|
| | | AC | DC | cycles/min | | hp-sec/min (watts) | | |
| | | | | AC | DC | Horizontal | Vertical | |
| 3 (4) | 2 | 4 | 4+ | 36 | 10 | 9 (112) | 6.5 (80) | .014 (5.88) |
| 6 (8) | 2 | K4 | K4- | 36 | 10 | 9 (112) | 6.5 (80) | .014 (5.88) |
| 10 (14) | 2 | K4 | K4+ | 36 | 10 | 9 (112) | 6.5 (80) | .014 (5.88) |
| 15 (20) | 2 | K4+ | M4+ | 36 | 10 | 9 (112) | 6.5 (80) | .014 (5.88) |
| 20 (27) | 3 | K4+ | M4+ | 36 | 10 | 9 (112) | 6.5 (80) | .020 (8.40) |
| 25 (34) | 3 | M4+ | P4+ | 36 | 10 | 9 (112) | 6.5 (80) | .020 (8.40) |

(1) Maximum solenoid cycle rate is based on ambient temperature of 72°F (22°C) with 50% duty cycle. Does not relate to brake cycle rate (see Thermal Capacity).

(2) Thermal capacity rating is based on ambient temperature of 72°F (22°C), stop time of one second or less, with no heat absorbed from the motor.

Unit Pricing (Discount Symbol E3)

| Nominal Static Torque (lb-ft) (Nm) | Enclosure | Type | Basic Model Number and List Price | | Wt. lbs. (kg) |
|--|-----------|------|-----------------------------------|------------|---------------|
| 3 (4) | IP56 | AC | 1-056-71S-0X | \$2,474.00 | 22 (10) |
| 6 (8) | IP56 | AC | 1-056-72S-0X | \$2,539.00 | 22 (10) |
| 10 (14) | IP56 | AC | 1-056-73S-0X | \$2,639.00 | 22 (10) |
| 15 (20) | IP56 | AC | 1-056-74S-0X | \$2,739.00 | 22 (10) |
| 20 (27) | IP56 | AC | 1-056-75S-0X | \$2,824.00 | 22 (10) |
| 25 (34) | IP56 | AC | 1-056-76S-0X | \$2,919.00 | 22 (10) |

To Order: Use above model number and specify:

- 5/8" or 7/8" shaft/bore size
 - (for 5/8", use "05" in place of "0X" in model number)
 - (for 7/8", use "07" in place of "0X" in model number)
 - Voltage - all standard AC & DC voltages are available
- Modifications are available - consult Stearns

Also Available

- Stainless Steel End Mount Brake
- Mount on the accessory end C-face of a motor
- > NEMA 56C to 145TC Motors
- > 3 lb-ft to 25 lb-ft (4Nm - 34Nm)
- > IP56 enclosure when installed per instructions



All Of Your Motor Brake Requirements From One Manufacturer

Providing both Solenoid-Actuated Brakes and Armature-Actuated (Direct Acting) Brakes, Stearns has a brake for every requirement

Solenoid-Actuated Brakes

Close Coupled

- Mounted directly to the accessory end of the motor
- 1-1/2 - 1000 lb-ft
- NEMA 2/4/4X



Division 1 and Division 2 Hazardous Location

- Close coupled, foot mount or fan guard mount available in NEMA 4 enclosure
- 1-1/2 - 330 lb-ft



Double C-Face Coupler Brakes

- For mounting between a C-Face motor and C-Face reducer
- 1-1/2 - 105 lb-ft
- 56C - 250TC
- NEMA 2/4/4X enclosure



Foot Mounted

- With bearing-supported thru-shaft
- 1-1/2 - 105 lb-ft



Armature-Actuated Brakes

310 Series

- Delivers high torque in a compact package for servo and stepper motor applications
- 10 - 350 lb-in



320 and 321 Series

- Commercial duty, small gear motors and 321 Series TENV
- 3 - 50 lb-in



333 Series

- High performance brake for metric/IEC applications. Direct interchange for *Kebco, Lenze and Binder.
- Also available for NEMA C-Face mounting, including IP43 or IP54 enclosure
- 1-1/2 - 300 lb-ft.



350 Series

Pressure plate mounted, IP56 enclosure, ideal for portal crane applications

and 360 Series

- Magnet body mount for portal crane applications
- 60 - 300 lb-ft



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