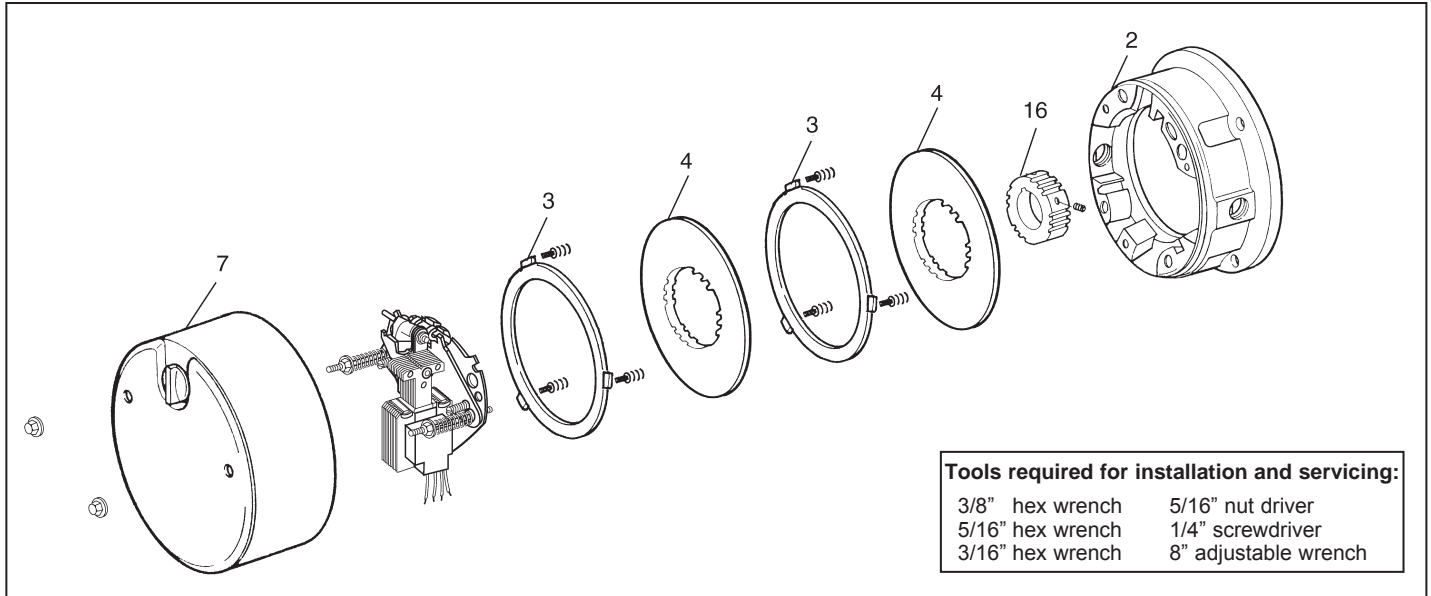


Parts List for 1-056-500 Series (rev. A & B) Manual Adjust Brakes

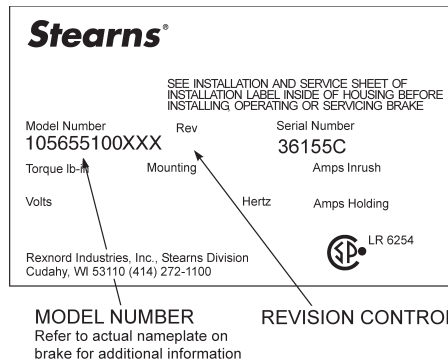
For Installation and Service Instructions refer to sheet part number 8-078-905-60. Instructions and parts list also available at www.stearns.rexnord.com.



Tools required for installation and servicing:

| | |
|------------------|----------------------|
| 3/8" hex wrench | 5/16" nut driver |
| 5/16" hex wrench | 1/4" screwdriver |
| 3/16" hex wrench | 8" adjustable wrench |

Typical Nameplate



IMPORTANT

Please read these instructions carefully before installing, operating, or servicing your Stearns Brake. Failure to comply with these instructions could cause injury to personnel and/or damage to property if the brake is installed or operated incorrectly. For definition of limited warranty/liability, contact Rexnord Industries, Inc., Stearns Division, 5150 S. International Dr., Cudahy, WI 53110, (414) 272-1100.

Caution

1. Installation and servicing must be made in compliance with all local safety codes including Occupational Safety and Health Act (OSHA). All wiring and electrical connections must comply with the National Electric Code (NEC) and local electric codes in effect.

2. Do not operate the brake in atmospheres containing explosive gases or dusts.
3. To prevent an electrical hazard, disconnect power source before working on the brake. If power disconnect point is out of sight, lock disconnect in the *off* position and tag to prevent accidental application of power.
4. Make certain power source conforms to the requirements specified on the brake nameplate.
5. Be careful when touching the exterior of an operating brake. Allow sufficient time for brake to cool before disassembly. Surfaces may be hot enough to be painful or cause injury.
6. Do not operate brake with housing removed. All moving parts should be guarded.
7. Installation and servicing should be performed only by qualified personnel familiar with the construction and operation of the brake.
8. For proper performance and operation, only genuine Stearns parts should be used for repairs and replacements.
9. After usage, the brake interior will contain burnt and degraded friction material dust. This dust must be removed before servicing or adjusting the brake.

DO NOT BLOW OFF DUST using an air hose. It is important to avoid dispersing dust into the air or inhaling it, as this may be dangerous to your health.

- a. Wear a filtered mask or a respirator while removing dust from the inside of a brake.
- b. Use a vacuum cleaner or a soft brush to remove dust from the brake. When brushing, avoid causing the dust to become airborne. Collect the dust in a container, such as a bag, which can be sealed off.

Information required when ordering replacement parts:

- Give Part Number of parts or kits needed, Brake Model Number, and Brake Serial Number. The Brake Model and Serial Number may identify special brakes not covered by this parts list
- When ordering hubs, specify shaft diameter (hub bore) and keyway.

• Enclosure is specified as follows:

- NEMA 2 (formerly referred to as standard)
- NEMA 4 (formerly referred to as DTWP dust-tight waterproof)
- NEMA 4X (formerly referred to as BISSC washdown)

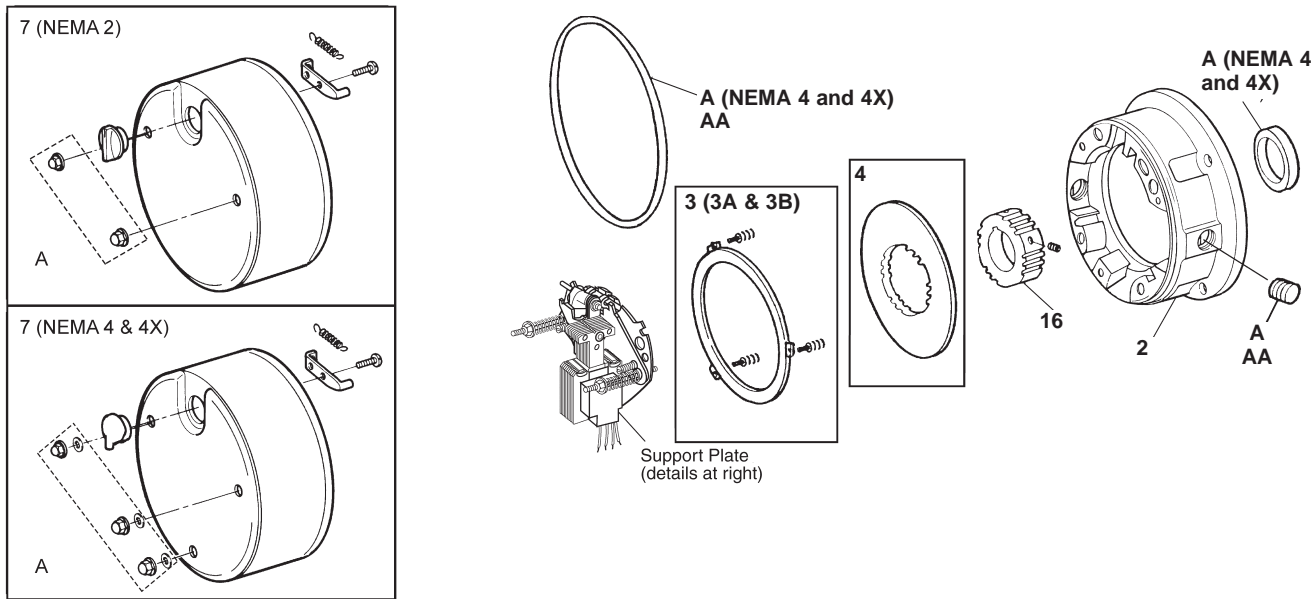


TABLE 1
Components of Standard AC or DC Brake

| | | | Torque (lb-ft) | | | 10 | | | 15 | | | 20 and 25 | | | | | | | | | | | | | | | | | | | | |
|------------------|--|--|--|--|--|--------------|---|---|--------------|---|---|--------------|---|---|--------------|---|---|--------------|---|---|--------------|---|---|------------------------|---|---|------------------------|---|---|------------------------|--|--|
| | | | NEMA Enclosure | | | 2 | | | 4 | | | 4X | | | | | | | | | | | | | | | | | | | | |
| Item | Description | | Part Number ↓ | | | 1-056-531-00 | | | 1-056-532-00 | | | 1-056-534-00 | | | 1-056-541-00 | | | 1-056-542-00 | | | 1-056-544-00 | | | 1-056-551-00 & -561-00 | | | 1-056-552-00 & -562-00 | | | 1-056-554-00 & -564-00 | | |
| A | Hardware kit - NEMA 2 Hardware kit - NEMA 4 Hardware kit - NEMA 4X | | 5-66-1001-00 5-66-1002-00 5-66-1003-00 | | | 1 | | | 1 | | | 1 | | | 1 | | | 1 | | | 1 | | | 1 | | | 1 | | | | | |
| AA | Plug/Gasket kit **Close couple | - NEMA 4 - NEMA 4X - NEMA 4 3 disc - NEMA 4X 3 disc | 5-63-0532-00 5-63-0533-00 5-63-0534-00 5-63-0535-00 | | | | 1 | | | 1 | | | 1 | | | 1 | | | | 1 | | | | 1 | | | | 1 | | | | |
| 7 | Housing & release knob kit - NEMA 2 Housing & release knob kit - NEMA 4 Housing & release knob kit - NEMA 4X | | 5-66-8756-00 5-66-8757-00 5-66-8758-00 | | | 1 | | | 1 | | | 1 | | | 1 | | | 1 | | | 1 | | | 1 | | | 1 | | | | | |
| 3 3A 3B | Stationary disc kit (3 disc horizontal) Stationary disc kit (2 disc universal) Stationary disc kit (3 disc vertical) | | 5-66-8354-00 5-66-8355-00 5-66-8356-00 | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| <i>Not Shown</i> | Vertical spring kit | | 5-63-0525-00 | | | | | | | | | | | | | | 1 | 1 | 1 | | | | | | | | | | | | | |
| 4 | Friction disc kit | | 5-66-8462-00 | | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | | | | | | | | | | | | | | | | |
| DP | Disc pack kit - 2 disc Disc pack kit - 3 disc | | 5-66-8602-00 5-66-8603-00 | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| 16 | Hub and set screw assembly 2 disc (NEMA 2) | 5/8 bore 7/8 bore 1-1/8 bore | 5-16-5150-00-01B 5-16-5150-00-01D 5-16-5150-00-01E | | | 1 | | | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| | Hub and set screw assembly 3 disc (NEMA 2) 2 and 3 disc (NEMA 4 & 4 X) | 5/8 bore 7/8 bore 1-1/8 bore | 5-16-5153-00-01B 5-16-5153-00-01D 5-16-5153-00-01E | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| 2 | Endplate Endplate and Seal Assembly Endplate and Seal Assembly | NEMA 2 NEMA 4 NEMA 4X | 8-002-583-01-30F 5-02-5041-00 5-02-5042-00 | | | 1 | | | 1 | | | 1 | | | 1 | | | 1 | | | 1 | | | 1 | | | 1 | | | | | |

* Certain multiple friction disc model numbers require a single stabilizer clip (D1) added to each friction disc. If your brake has these clips, they must be replaced when the friction disc is replaced. This clip is included as part of the friction disc kit 5-66-8462-00.

** Close coupled brakes are identified by an 8 in the 8th digit. Example: 1-056-XXX-8X.

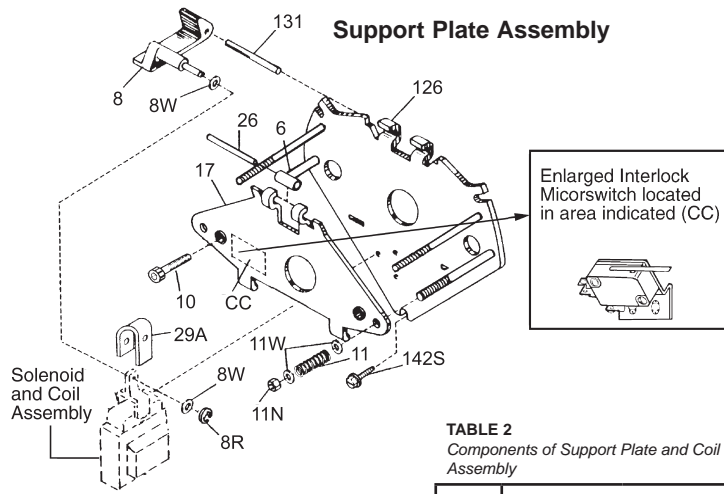


TABLE 2
Components of Support Plate and Coil Assembly

| | | | Torque (lb-ft) | | 10 | | 15 | | 20 | | 25 | |
|------------------------|--|--------------|--|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|--------|
| | | | NEMA Enclosure | | 2 | 4/4X | 2 | 4/4X | 2 | 4/4X | 2 | 4/4X |
| | | | Support Plate Assy. (Items 6 through 131 and Z)→ | | | | | | | | | |
| Item | Description | | Part Number↓ | 5-42-5607-00-04 | 5-42-5607-00-14 | 5-42-5609-00-04 | 5-42-5609-00-14 | 5-42-5611-00-04 | 5-42-5611-00-14 | 5-42-5611-00-04 | 5-42-5611-00-14 | |
| 6 | Bearing | | 8-006-501-00 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 8 | Solenoid lever | | 8-008-504-05 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 8R | Retaining ring | | 9-03-0057-00 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 8W | Spacer | | 9-45-0168-00 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 11N | Torque adjustment nut | | 9-40-3928-00 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 10 | Wear adjustment screw | | 9-17-8420-00 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 11 | Pressure spring | | 9-70-1215-00 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Pressure spring | | 9-70-1523-00 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Pressure spring | | 9-70-1524-00 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 11W | Spring washer | | 9-46-0010-00 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 17 | Lever arm and stop nut assy. | | 5-17-5011-00 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 26 | Bearing pin | | 9-29-4826-00 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 29A | Plunger stop | | 8-094-503-00 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 126 | Support plate and spring stud assembly (2 housing studs) | | 5-26-5019-00 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Support plate and spring stud assembly (3 housing studs) | | 5-26-5020-00 | | 1 | 1 | 1 | | 1 | | 1 | 1 |
| 131 | Pivot pin | | 9-29-4836-00 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 142S | Mounting screws | | 9-25-9013-00 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| AC Brakes | | | | | | | | | | | | |
| Z | No. 4 solenoid kit (rev A & B) (rev B only) | | 5-66-5042-00 5-96-5042-01 | 1 1 | | 1 1 | | 1 1 | | 1 1 | | 1 1 |
| AC | No. 4 coil kit 60 Hz | 115/230 Vac | 5-66-6407-33 | | | | | | | | | |
| | | 230/460 Vac | 5-66-6409-33 | | | | | | | | | |
| | 115 Vac | 5-66-6401-33 | | | | | | | | | | |
| | 230 Vac | 5-66-6402-33 | | | | | | | | | | |
| | 460 Vac | 5-66-6404-33 | | | | | | | | | | |
| | 575 Vac | 5-66-6405-33 | | | | | | | | | | |
| No. K4 coil kit 60 Hz | 115/230 Vac | 5-66-6457-33 | 1 | | | | | | | | | |
| | 230/460 Vac | 5-66-6459-33 | 1 | | | | | | | | | |
| | 115 Vac | 5-66-6451-33 | 1 | | | | | | | | | |
| | 230 Vac | 5-66-6452-33 | 1 | | | | | | | | | |
| | 460 Vac | 5-66-6454-33 | 1 | | | | | | | | | |
| | 575 Vac | 5-66-6455-33 | 1 | | | | | | | | | |
| No. K4+ coil kit 60 Hz | 115/230 Vac | 5-66-6407-23 | | | 1 | | 1 | | | | | |
| | 230/460 Vac | 5-66-6409-23 | | | 1 | | 1 | | | | | |
| | 115 Vac | 5-66-6401-23 | | | 1 | | 1 | | | | | |
| | 230 Vac | 5-66-6402-23 | | | 1 | | 1 | | | | | |
| | 460 Vac | 5-66-6404-23 | | | 1 | | 1 | | | | | |
| | 575 Vac | 5-66-6405-23 | | | 1 | | 1 | | | | | |
| No. M4+ coil kit 60 Hz | 115/230 Vac | 5-66-6457-23 | | | | | | | | | | 1 |
| | 230/460 Vac | 5-66-6459-23 | | | | | | | | | | 1 |
| | 115 Vac | 5-66-6451-23 | | | | | | | | | | 1 |
| | 230 Vac | 5-66-6452-23 | | | | | | | | | | 1 |
| | 460 Vac | 5-66-6454-23 | | | | | | | | | | 1 |
| | 575 Vac | 5-66-6455-23 | | | | | | | | | | 1 |
| CC | Brake release interlock switch (opt) | | 5-57-5526-00 | 1 | | 1 | | 1 | | 1 | | 1 |
| DC Brakes | | | | | | | | | | | | |
| AD | No. 4 + coil assembly | 115 Vdc | 5-96-6416-43 | | | | | | | | | |
| | | 230 Vdc | 5-96-6417-43 | | | | | | | | | |
| | No. K4 + coil assembly | 115 Vdc | 5-96-6416-23 | 1 | | | | | | | | |
| | | 230 Vdc | 5-96-6417-23 | 1 | | | | | | | | |
| No. M4 + coil assembly | 115 Vdc | 5-96-6466-23 | | | 1 | | 1 | | | | | |
| | 230 Vdc | 5-96-6467-23 | | | 1 | | 1 | | | | | |
| BD | Electronic DC switch kit | 24/28 Vdc | 5-57-5712-15 | 1 | | 1 | | 1 | | 1 | | 1 |
| | | 115 Vdc | 5-57-5716-15 | 1 | | 1 | | 1 | | 1 | | 1 |
| | | 230 Vdc | 5-57-5717-15 | 1 | | 1 | | 1 | | 1 | | 1 |

Optional Modification Kits

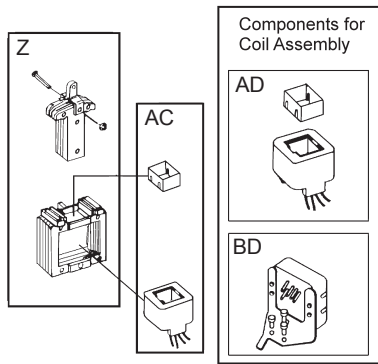


Table 3
Contents of Kits and Assemblies

| Item | Kit Description |
|------|---|
| A | Hardware kit - NEMA 2 (5-66-1001-00) 2 - Housing acorn nuts 2 - Conduit plugs |
| | Hardware kit - NEMA 4 (5-66-1002-00) Hardware kit - NEMA 4X (5-66-1003-00) 3 - Housing nuts 3 - Housing nut gaskets 1 - Endplate oil seal 2 - Endplate hole plugs 1 - Housing to endplate "U" gasket 2 - Endplate conduit pipe plugs |
| 7 | Housing and release knob kit (5-66-875X-00) 1 - Housing and release knob assembly 2 or 3 - Housing nuts 3 - Housing nut gasket (NEMA 4 and 4X) |
| 3 | Stationary disc kit (5-66-8354-00) 1 - Stationary disc |
| 3A | Stationary disc kit (5-66-8355-00) 2 - Stationary discs with springs |
| 4 | Friction disc kit (5-66-8462-00) 1 - Friction disc |
| DP | Disc pack kit (5-66-860X-00) 2 or 3 - Friction disc(s) 2 or 3 - Stationary disc(s) 6 or 9 - Stationary disc separator springs |
| 16 | Hub and screw assembly - all types, all bores (5-16-515X-00) 1 - Brake hub 2 - Set screws |
| Z | No. 4 solenoid kit (5-66-5042-00) (5-96-5042-01) 1 - Plunger 1 - Solenoid link 1 - Frame (including mounting bracket) 1 - Solenoid link cap screw 1 - Solenoid link nut 3 - Solenoid mounting screws |
| AC | No. 4 AC coil kit (5-66-64XX-X3) and DC coil assembly (5-96-64XX-X3) |
| AD | Coil / Top Plunger guide / Wire nut |
| BD | DC switch kit (5-57-571X-15) 1 - Electronic switch 1 - Mounting bracket 3 - Bracket mounting screws 4 - Switch mounting screws 4 - Nuts 4 - Lock washers 5 - Crimp connectors |
| CC | Brake release interlock switch (5-57-5526-00) 1 - Microswitch 1 - Mounting bracket 2 - Bracket mounting screws 2 - Switch mounting screws 2 - Lock washers 2 - Nuts 2 - Leadwire assembly |

| | | Torque (lb-ft) | 10 & 15 | 20 & 25 |
|--------------------|--|----------------------|------------------------|------------------------|
| | | Brake Model Number → | 1-056-53X 1-056-54X | 1-056-55X 1-056-56X |
| Catalog Mod Number | Description | Part Number ↓ | | |
| M4 | Brass stationary disc | 8-003-513-02 | 2 | 3 |
| M13 | Space heater 115 Vac 230 Vac | 5-27-2004-00 | 1 | 1 |
| | | 5-27-2005-00 | 1 | 1 |
| M17 | Terminal strip | 5-63-0524-00 | 1 | 1 |
| M21 | Vertical spring kit (2-disc) (3 disc) | 5-63-0539-00 | 1 | |
| | | 5-63-0525-00 | | 1 |

| | | Torque (lb-ft) | 10 | 15 & 20 | 25 |
|----------------------------------|----------------------------------|----------------------|--------------|------------------------------|--------------|
| | | Brake Model Number → | 1-056-531-00 | 1-056-541-00 1-056-551-00 | 1-056-561-00 |
| Catalog Mod Number | Description | Part Number ↓ | | | |
| M6 | No. K4 Class 'H' coil kit | 115/230 Vac | 5-96-6457-05 | 1 | |
| | | 230/460 Vac | 5-96-6459-05 | 1 | |
| | | 115 Vac | 5-96-6451-05 | 1 | |
| | No. K4+ Class 'H' coil kit | 230 Vac | 5-96-6452-05 | 1 | |
| | | 460 Vac | 5-96-6454-05 | 1 | |
| | | 575 Vac | 5-96-6455-05 | 1 | |
| | No. M4+ Class 'H' coil kit | 115/230 Vac | 5-96-6407-25 | | 1 |
| | | 230/460 Vac | 5-96-6409-25 | | 1 |
| | | 115 Vac | 5-96-6401-25 | | 1 |
| No. M4+ Class 'H' coil kit | 230 Vac | 5-96-6402-25 | | 1 | |
| | 460 Vac | 5-96-6404-25 | | 1 | |
| | 575 Vac | 5-96-6405-25 | | 1 | |
| No. M4+ Class 'H' coil kit | 115/230 Vac | 5-96-6457-25 | | | 1 |
| | 230/460 Vac | 5-96-6459-25 | | | 1 |
| | 115 Vac | 5-96-6451-25 | | | 1 |
| No. M4+ Class 'H' coil kit | 230 Vac | 5-96-6452-25 | | | 1 |
| | 460 Vac | 5-96-6454-25 | | | 1 |
| | 575 Vac | 5-96-6455-25 | | | 1 |

Rexnord Industries, LLC
Stearns Division
5150 S. International Drive
Cudahy, Wisconsin 53110
(414) 272-1100 Fax: (414) 277-4364
www.stearns.rexnord.com

