

## Installation and Service Instructions for Stearns AAB Tor-AC® 50/60 Hz Model Half and Full Wave Rectification

### Important

Please read these instructions carefully before installing, operating, or servicing your Stearns brake and rectifier. 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, LLC, Stearns Division, 5150 S. International Dr., Cudahy, Wisconsin 53110, (414) 272-1100.

OEM's and subsystem suppliers, please forward these instructions with your components to the final user.

### Caution

1. Servicing shall be in compliance with applicable 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. 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 to system.
3. Maximum operating ambient temperature for these rectifiers should not exceed 65°C (150° F).
4. Refer to specific brake Installation and Service Instructions for proper mounting of brake.

### Wiring

**Note 1:** For screw terminal rectifiers only, check that terminals are fully opened *before* inserting wires. Maximum #16 AWG.

1. Connect coil leadwires to DC OUTPUT side rectifier. (Polarity does *not* matter.) Tighten screw terminals, or wire nut as required.
2. Connect rectifier input AC INPUT to AC power source. Tighten screw terminals, or wire nut as required.

**Note:** For each nominal AC line voltage, use table to determine the proper DC coil rating requirement.

Table

Line Voltage (AC)	Rectifier Type	Recommended Coil Voltage Rating	Stearns Rectifier Part Number	Rectifier Output Voltage
415	half	180	412-0494-0_K	187
440	half	205	412-0494-0_K	198
460	half	205	412-0494-0_K	207
480	half	205	412-0494-0_K	216
460	half	205	412-0497-02K	207
230	full	207	412-0290-11K	207
440	full	414/432	412-0492-0_K	396
460	full	414/432	412-0492-0_K	414
480	full	414/432	412-0492-0_K	432

