

# 80 Series End Mount

## 2 Post Design & Heavy Duty 4 Post

**Instructions 2 Post: NEMA 2 or NEMA 4**  
**Parts List 2 Post: NEMA 2 or NEMA 4**  
**Instructions 4 Post: NEMA 2 or NEMA 4**  
**Parts List 4 Post: NEMA 2 or NEMA 4**  
**Troubleshooting Wiring**

**NEMA Frame Sizes 284TC and 286TC**  
**Torque Ratings: 25 to 175 lb-ft**

RoHS Compliance upon request- can be constructed to meet the requirements of the Restriction of Hazardous Substances Directive

**No Disassembly Required for Mounting!**



### Specifications:

Reaction Time: 20-25 milliseconds (release and set)  
 AK: 10.5" Register  
 AJ: 9.00" Bolt Circle  
 Maximum RPM: 2400

### Design Features:

2 Post Design for standard applications  
 HEAVY DUTY 4 Post Design for high cycle/ jogging  
 No disassembly required for mounting  
 Direct acting design with no linkages to break  
 One moving part for longer life  
 Torque adjustable for specific applications  
 Splined hub  
 Coil insulation: Class B Standard, Class H Optional  
 Spring set, electrically released  
 Lead wires for conduit connections (internal connection available)  
 Manual release, automatic reset  
 All position brake available  
 CSA Approved File #LR13814

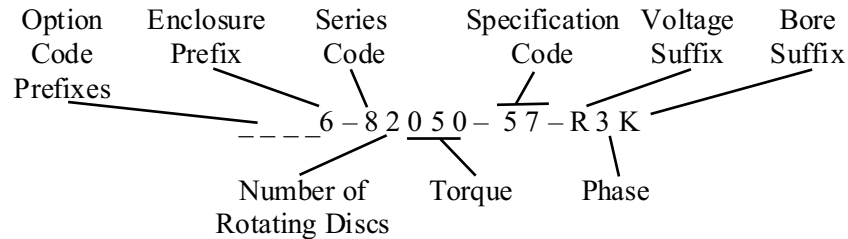
### Enclosure Types

- ◆Dripproof Enclosure: NEMA 2, CSA 2, IP41
  - ◆Stamped steel cover with cast iron bracket or cast aluminum cover with cast iron bracket
- ◆Waterproof/Dusttight Enclosure: NEMA 4, CSA 4, IP56
  - ◆Also available without hub seal for non-TEFC applications 4 post model only 4-80000-32
  - ◆Cast iron cover and bracket

### Instruction & Parts Manual:

2 Post NEMA 2: BK4803; NEMA 4: BK4813  
 4 Post NEMA 2: BK4804; NEMA 4: BK4604

### Brake Model Number Definition



#### Standard Voltages (single and three phase):

| Suffix | Voltage                            |
|--------|------------------------------------|
| Y      | 110/220V, 50Hz                     |
| U      | 230/460V, 60 Hz or 190/380V, 50 Hz |
| R      | 115/230V, 60 Hz                    |
| T      | 220/440V, 60 Hz                    |
| P      | 575V, 60 Hz                        |

Special voltages available.

#### Standard Hub Bore Sizes:

| Suffix | Size   | Keyway Width  |
|--------|--------|---------------|
| F      | 7/8"   | 3/16" x 3/32" |
| H      | 1 1/8" | 1/4" x 1/8"   |
| J      | 1 1/4" | 1/4" x 1/8"   |
| K      | 1 3/8" | 5/16" x 5/32" |
| M      | 1 5/8" | 3/8" x 3/16"  |
| N      | 1 7/8" | 1/2" x 1/4"   |

Special bore sizes available.

#### Available Options:

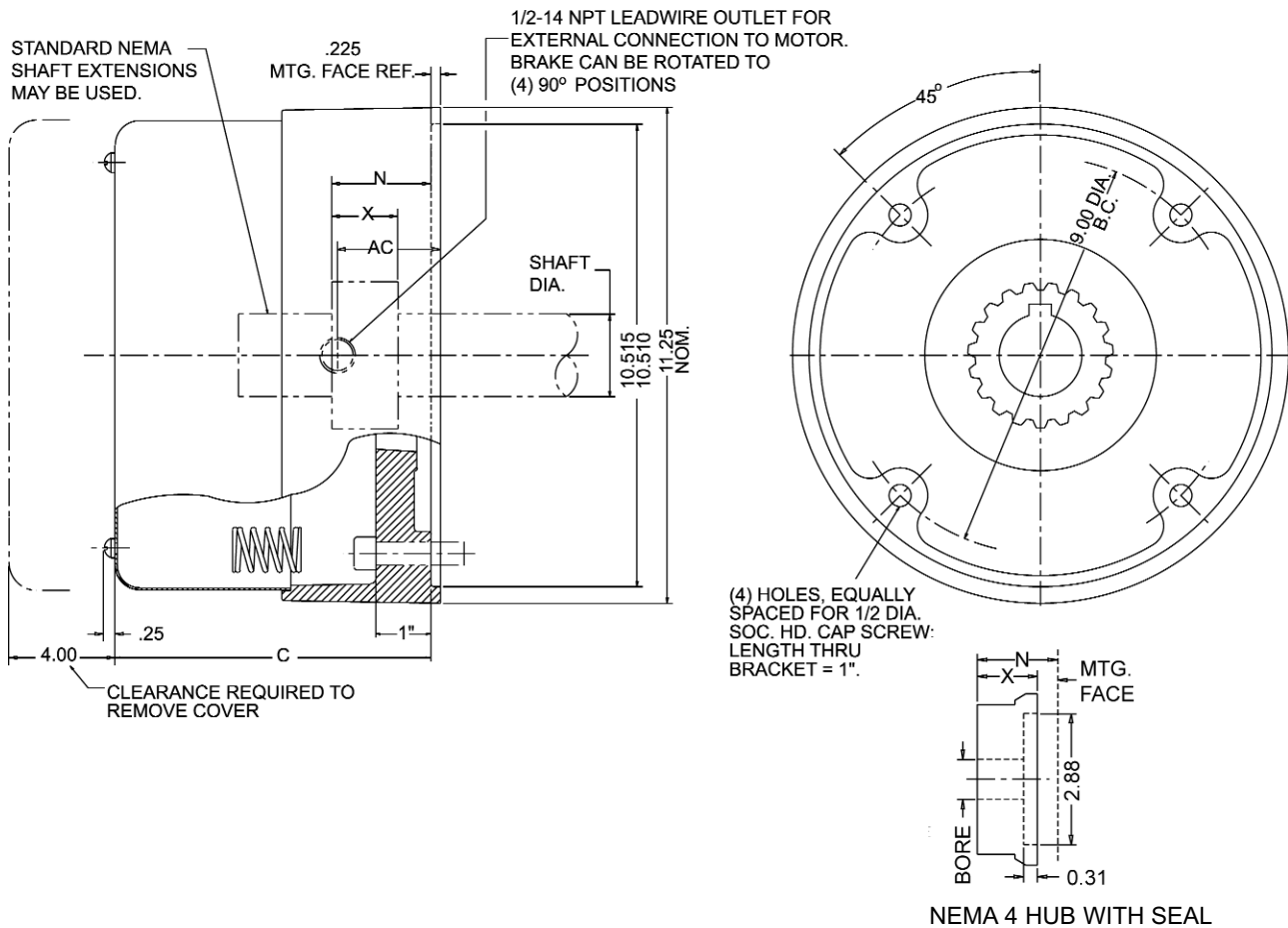
| Available Options:  | Prefix |
|---|--------|
| Adapter to Larger Frame Size(s)                           | A      |
| Reverse Adapter   | AB     |
| Ductile Iron Stationary Disc                              | E      |
| Foot Mounting Bracket                                     | F      |
| Heavy-Duty Rotating Friction Disc with Hardened Steel Hub | H      |
| High Tensile Studs  | J      |
| Marine Duty (IEEE 45, CFR110.10-1)                        | M      |
| Harsh Environment Protection                              | N      |
| Tropical Protection                                       | P      |
| Internal Space Heater                                     | R      |
| Stainless Steel Stationary Disc                           | S      |
| Through Shaft   | T      |
| Class H Insulation  | Q      |
| Vertical Mounting   |        |
| Vertical Over, or above motor                             | VO     |
| Vertical Under, or below motor                            | VU     |
| Micro-Switch Warning                                      | XS     |

Refer to pages 32-36 for option descriptions and pricing.

# 2 Post Design

Instruction & Parts Manual:  
NEMA 2: BK4803; NEMA 4: BK4813

| Torque<br>lb-ft | 2 POST<br>Model No.               | Enclosure | Construction       | Wt.<br>Lbs. | Thermal<br>Capacity<br>HPS/Min | Inertia<br>WK <sup>2</sup><br>Lb-Ft. <sup>2</sup> | Dimensions |      |      |      | List<br>Price |
|-----------------|-----------------------------------|-----------|--------------------|-------------|--------------------------------|---|------------|------|------|------|---------------|
|                 |                                   |           |                    |             |                                |   | C          | N    | X    | AC   |               |
| 25              | 6-81025-57                        | NEMA 2    | Cast Iron/Steel    | 57          | 15                             | 0.084   | 6.25       | 1.75 | 1.00 | 1.73 | \$1,500       |
|                 | R81025                            | NEMA 2    | Cast Iron/Aluminum | 60          | 15                             | 0.084   | 6.00       | 1.75 | 1.00 | 1.73 | \$1,600       |
|                 | R81025-4                          | NEMA 4    | Cast Iron          | 75          | 15                             | 0.095   | 6.00       | 1.75 | 1.31 | 1.73 | \$1,840       |
| 35              | 6-81035-57                        | NEMA 2    | Cast Iron/Steel    | 57          | 15                             | 0.084   | 6.25       | 1.75 | 1.00 | 1.73 | \$1,550       |
|                 | R81035                            | NEMA 2    | Cast Iron/Aluminum | 60          | 15                             | 0.084   | 6.00       | 1.75 | 1.00 | 1.73 | \$1,650       |
|                 | R81035-4                          | NEMA 4    | Cast Iron          | 75          | 15                             | 0.095   | 6.00       | 1.75 | 1.31 | 1.73 | \$1,950       |
| 50              | 6-82050-57                        | NEMA 2    | Cast Iron/Steel    | 65          | 17                             | 0.158   | 6.87       | 2.25 | 1.50 | 2.35 | \$1,600       |
|                 | R82050                            | NEMA 2    | Cast Iron/Aluminum | 68          | 17                             | 0.158   | 6.62       | 2.25 | 1.50 | 2.35 | \$1,700       |
|                 | R82050-4                          | NEMA 4    | Cast Iron          | 83          | 17                             | 0.169   | 6.62       | 2.25 | 1.81 | 2.35 | \$2,200       |
| 70              | 6-82070-57                        | NEMA 2    | Cast Iron/Steel    | 65          | 17                             | 0.158   | 6.87       | 2.25 | 1.50 | 2.35 | \$1,850       |
|                 | R82070                            | NEMA 2    | Cast Iron/Aluminum | 68          | 17                             | 0.158   | 6.62       | 2.25 | 1.50 | 2.35 | \$1,950       |
|                 | R82070-4                          | NEMA 4    | Cast Iron          | 83          | 17                             | 0.169   | 6.62       | 2.25 | 1.81 | 2.35 | \$2,600       |
| 75              | 6-83075-57                        | NEMA 2    | Cast Iron/Steel    | 70          | 19                             | 0.233   | 7.50       | 2.75 | 2.00 | 2.98 | \$2,100       |
|                 | R83075                            | NEMA 2    | Cast Iron/Aluminum | 73          | 19                             | 0.233   | 7.25       | 2.75 | 2.00 | 2.98 | \$2,200       |
|                 | R83075-4                          | NEMA 4    | Cast Iron          | 88          | 19                             | 0.244   | 7.25       | 2.75 | 2.31 | 2.98 | \$2,700       |
| 105             | 6-83105-57                        | NEMA 2    | Cast Iron/Steel    | 70          | 19                             | 0.233   | 7.50       | 2.75 | 2.00 | 2.98 | \$2,580       |
|                 | R83105                            | NEMA 2    | Cast Iron/Aluminum | 74          | 19                             | 0.233   | 7.25       | 2.75 | 2.00 | 2.98 | \$2,680       |
|                 | R83105-4                          | NEMA 4    | Cast Iron          | 88          | 19                             | 0.244   | 7.25       | 2.75 | 2.31 | 2.98 | \$3,400       |
| 125             | See 4-post brake; following pages |           |                    |             |                                |   |            |      |      |      |               |
| 175             | See 4-post brake; following pages |           |                    |             |                                |   |            |      |      |      |               |



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## 2 Post Design & Heavy Duty 4 Post

NEMA Frame Sizes 284TC and 286TC

Torque Ratings: 25 to 175 lb-ft

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Disassembly  
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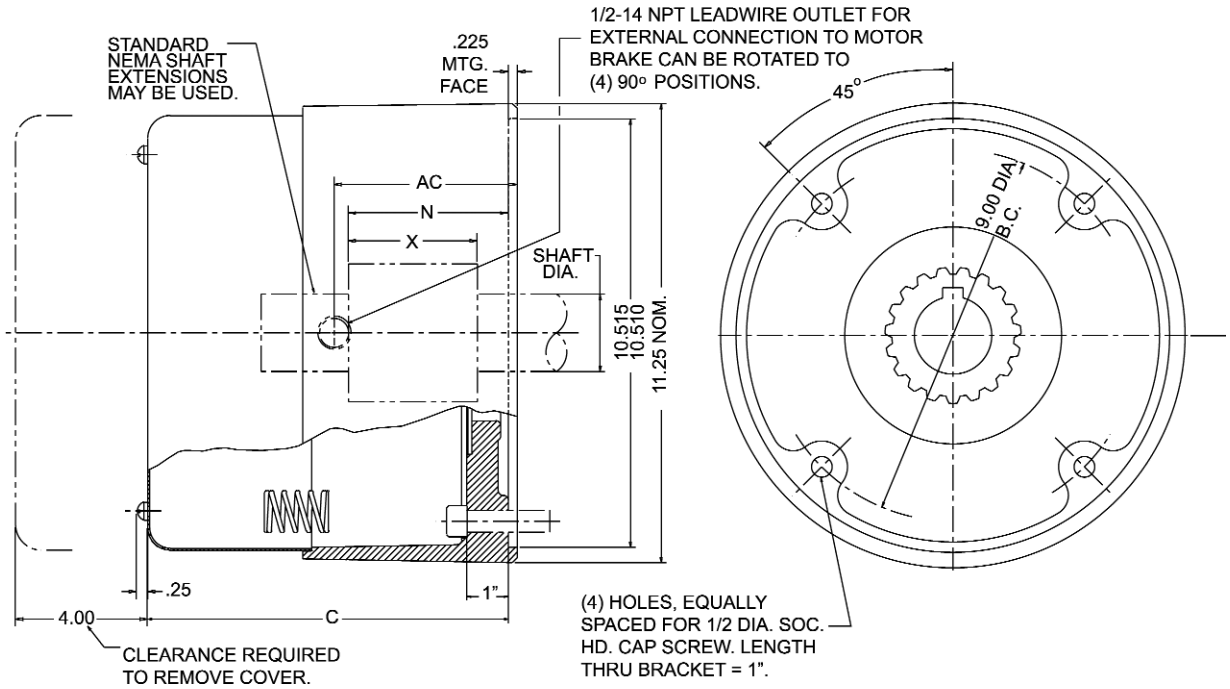
### Heavy Duty 4 POST DESIGN

Instruction & Parts Manual:

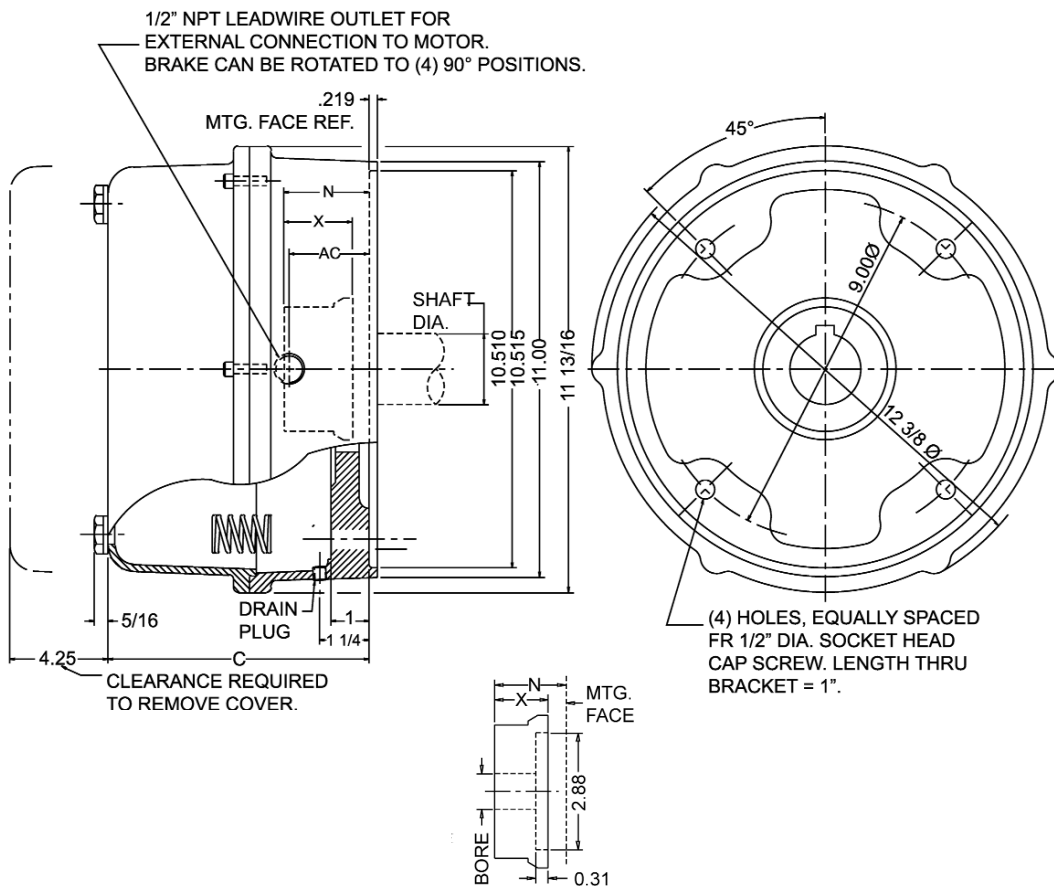
NEMA 2: BK4804; NEMA 4: BK4604

| Torque<br>lb-ft | Heavy Duty<br>4 POST<br>Model No. | Enclosure | Construction       | Wt.<br>Lbs. | Thermal<br>Capacity<br>HPS/Min | Inertia<br>WK <sup>2</sup><br>lb-ft <sup>2</sup> | Dimensions in inches |      |      |      | List<br>Price |
|-----------------|-----------------------------------|-----------|--------------------|-------------|--------------------------------|--|----------------------|------|------|------|---------------|
|                 |                                   |           |                    |             |                                |  | C                    | N    | X    | AC   |               |
| 25              | 6-81025-58                        | NEMA 2    | Cast Iron/Steel    | 57          | 15                             | 0.084  | 6.25                 | 1.75 | 1.00 | 1.73 | \$1,750       |
|                 | 2-81025-28                        | NEMA 2    | Cast Iron/Aluminum | 60          | 15                             | 0.084  | 6.31                 | 1.75 | 1.00 | 1.73 | \$1,830       |
|                 | 4-81025-29                        | NEMA 4    | Cast Iron          | 75          | 15                             | 0.095  | 6.34                 | 1.75 | 1.31 | 1.73 | \$2,090       |
| 35              | 6-81035-58                        | NEMA 2    | Cast Iron/Steel    | 57          | 15                             | 0.084  | 6.25                 | 1.75 | 1.00 | 1.73 | \$1,800       |
|                 | 2-81035-28                        | NEMA 2    | Cast Iron/Aluminum | 60          | 15                             | 0.084  | 6.31                 | 1.75 | 1.00 | 1.73 | \$1,880       |
|                 | 4-81035-29                        | NEMA 4    | Cast Iron          | 75          | 15                             | 0.095  | 6.34                 | 1.75 | 1.31 | 1.73 | \$2,200       |
| 50              | 6-82050-58                        | NEMA 2    | Cast Iron/Steel    | 65          | 17                             | 0.158  | 6.87                 | 2.25 | 1.50 | 2.35 | \$1,850       |
|                 | 2-82050-28                        | NEMA 2    | Cast Iron/Aluminum | 68          | 17                             | 0.158  | 6.94                 | 2.25 | 1.50 | 2.35 | \$1,930       |
|                 | 4-82050-29                        | NEMA 4    | Cast Iron          | 83          | 17                             | 0.169  | 6.96                 | 2.25 | 1.81 | 2.35 | \$2,450       |
| 70              | 6-82070-58                        | NEMA 2    | Cast Iron/Steel    | 65          | 17                             | 0.158  | 6.87                 | 2.25 | 1.50 | 2.35 | \$2,100       |
|                 | 2-82070-28                        | NEMA 2    | Cast Iron/Aluminum | 68          | 17                             | 0.158  | 6.94                 | 2.25 | 1.50 | 2.35 | \$2,180       |
|                 | 4-82070-29                        | NEMA 4    | Cast Iron          | 83          | 17                             | 0.169  | 6.96                 | 2.25 | 1.81 | 2.35 | \$2,850       |
| 75              | 6-83075-58                        | NEMA 2    | Cast Iron/Steel    | 70          | 19                             | 0.233  | 7.50                 | 2.75 | 2.00 | 2.98 | \$2,350       |
|                 | 2-83075-28                        | NEMA 2    | Cast Iron/Aluminum | 73          | 19                             | 0.233  | 7.56                 | 2.75 | 2.00 | 2.98 | \$2,430       |
|                 | 4-83075-29                        | NEMA 4    | Cast Iron          | 88          | 19                             | 0.244  | 7.59                 | 2.75 | 2.31 | 2.98 | \$2,950       |
| 105             | 6-83105-58                        | NEMA 2    | Cast Iron/Steel    | 70          | 19                             | 0.233  | 7.50                 | 2.75 | 2.00 | 2.98 | \$2,830       |
|                 | 2-83105-28                        | NEMA 2    | Cast Iron/Aluminum | 74          | 19                             | 0.233  | 7.56                 | 2.75 | 2.00 | 2.98 | \$2,910       |
|                 | 4-83105-29                        | NEMA 4    | Cast Iron          | 88          | 19                             | 0.244  | 7.59                 | 2.75 | 2.31 | 2.98 | \$3,650       |
| 125             | 6-84125-58                        | NEMA 2    | Cast Iron/Steel    | 75          | 21                             | 0.307  | 8.12                 | 3.25 | 2.50 | 3.60 | \$3,300       |
|                 | 2-84125-28                        | NEMA 2    | Cast Iron/Aluminum | 79          | 21                             | 0.307  | 8.25                 | 3.25 | 2.50 | 3.60 | \$3,380       |
|                 | 4-84125-29                        | NEMA 4    | Cast Iron          | 93          | 21                             | 0.318  | 8.21                 | 3.25 | 2.81 | 3.60 | \$4,050       |
| 175             | 6-85175-58                        | NEMA 2    | Cast Iron/Steel    | 81          | 21                             | 0.384  | 8.75                 | 3.87 | 3.12 | 4.23 | \$4,500       |
|                 | 2-85175-28                        | NEMA 2    | Cast Iron/Aluminum | 85          | 21                             | 0.384  | 8.81                 | 3.87 | 3.12 | 4.23 | \$4,580       |
|                 | 4-85175-29                        | NEMA 4    | Cast Iron          | 99          | 21                             | 0.395  | 8.84                 | 3.87 | 3.44 | 4.23 | \$5,950       |

## NEMA 2 Cast Iron/Steel



## NEMA 2 Cast Iron/Aluminum, & NEMA 4 Cast Iron



NEMA 4 HUB WITH SEAL