

## PE587UZ-500-6C-BB

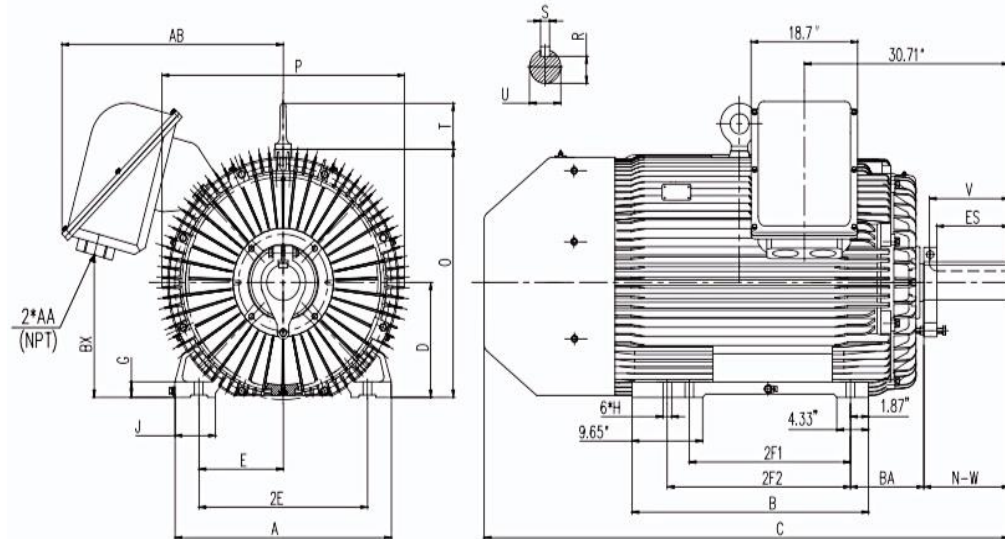
CRUSHER DUTY MOTOR

HIGH TORQUE / PREMIUM EFFICIENCY DESIGN

TOTALLY ENCLOSED FAN COOLED

HEAVY DUTY CAST IRON CONSTRUCTION

Factory Certified for T2B Class I, Division II, Groups A,B,C & D and Class II, Division II, Groups F & G



### DIMENSIONS

| HP  | RPM  | Frame | MOUNTING |      |       |      |      |      |      |      |    |     |     |       |       |     |    |
|-----|------|-------|----------|------|-------|------|------|------|------|------|----|-----|-----|-------|-------|-----|----|
|     |      |       | A        | B    | C     | D    | G    | H    | J    | E    | 2E | 2F1 | 2F2 | O     | P     | T   | BA |
| 500 | 1200 | 587UZ | 29.53    | 32.3 | 71.65 | 14.5 | 1.97 | 1.18 | 5.51 | 11.5 | 23 | 22  | 25  | 41.44 | 33.07 | 5.8 | 10 |

| Shaft Extension, Key Set |       |       |   |    |        | Conduit Box |       |       | Bearings |      | Mount |
|--------------------------|-------|-------|---|----|--------|-------------|-------|-------|----------|------|-------|
| U                        | V     | R     | S | ES | N-W    | AA          | AB    | BX    | DE       | ODE  |       |
| 4.375                    | 11.25 | 3.817 | 1 | 10 | 11.625 | 2 X 3"      | 28.15 | 18.82 | 6324     | 6319 | F1    |

**BEARING LUBRICATION:** The bearings come lubricated with Mobil Polyrex EM Polyurea Grease. It is recommended that you add some additional lubrication when the motor is installed.

Three options (brands) for suitable lubrication include, but are not limited to, the following:

- 1.) Mobil Polyrex EM
- 2.) Citco Polyurea MP
- 3.) Conoco Phillips Polytac EP



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### PERFORMANCE DATA

| HP  | RPM  | Frame | Voltage | Frequency (Hz) | Full Load S.F. | Insulation Class | NEMA Design | Slip (%) | NEMA Code | Enclosure Type | IP Rating | Max. Ambient |
|-----|------|-------|---------|----------------|----------------|------------------|-------------|----------|-----------|----------------|-----------|--------------|
| 500 | 1189 | 587UZ | 460     | 60             | 1.15           | F                | C           | 0.9      | G         | TEFC           | 55        | 40 °C        |

| Amps (460V) |      | Efficiency (%) |      |      | Power Factor |      |      | Torque (ft-lb) |       |       | DE Bearing | ODE Bearing | Connection | Weight (lbs.) |
|-------------|------|----------------|------|------|--------------|------|------|----------------|-------|-------|------------|-------------|------------|---------------|
| FLA         | LRA  | 100%           | 75%  | 50%  | 100%         | 75%  | 50%  | FLT            | LRT % | BDT % |            |             |            |               |
| 563.1       | 3625 | 95.8           | 95.4 | 95.0 | 0.86         | 0.83 | 0.77 | 2211           | 200   | 275   | 6324       | 6319        | 12 Lead Δ  | 6190.8        |

### NAME PLATE

| <b>AC INDUCTION MOTOR</b><br>HIGH EFFICIENCY DESIGN<br>CRUSHER DUTY MOTOR  |  |                   |       |         |            |                                 |       |           |       | CONNECTION DIAGRAMS |       |              |                  |     |   |        |  |           |  |      |      |   |  |
|--|--|-------------------|-------|---------|------------|---------------------------------|-------|-----------|-------|---------------------|-------|--------------|------------------|-----|---|--------|--|-----------|--|------|------|---|--|
| CAT. NO.   |  | PE587UZ-500-6C-BB |       |         | FRAME      |                                 | 587UZ |           | PHASE | 3                   | ENCL. |              | TEFC             |     | <div style="text-align: center;">460V</div> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">             T12<br/>T6<br/>T7<br/>T1<br/>L1           </div> <div style="text-align: center;">             T10<br/>T4<br/>T8<br/>T2<br/>L2           </div> <div style="text-align: center;">             T11<br/>T5<br/>T9<br/>T3<br/>L3           </div> </div> |        |  |           |  |      |      |   |  |
| RATING   |  |                   | CONT  |         | INS. CLASS |                                 |       | F         |       | CONN.               |       |              | 12 Lead Δ        |     |   |        |  |           |  |      |      |   |  |
| DE BRG.  |  |                   | 6324  |         | ODE BRG.   |                                 |       | 6319      |       | LUB.                |       |              | Mobil Polyrex EM |     |   |        |  |           |  |      |      |   |  |
| MAX. AMB.  |  |                   | 40 °C |         | WEIGHT     |                                 |       | 6190.8    |       | SER.                |       |              |                  |     |   |        |  |           |  |      |      |   |  |
| HP   |  | 500               |       | RPM     |            | 1189                            |       | HP        |       | 500                 |       | RPM          |                  | 990 |   |        |  |           |  |      |      |   |  |
| VOLTS  |  |                   |       | 460     |            |                                 |       | VOLTS     |       |                     |       | 380          |                  |     |   |        |  |           |  |      |      |   |  |
| F.L. AMPS  |  |                   |       | 563.1   |            |                                 |       | F.L. AMPS |       |                     |       | 681.6        |                  |     |   |        |  |           |  |      |      |   |  |
| S.F. AMPS  |  |                   |       | 647.565 |            |                                 |       | S.F. AMPS |       |                     |       | 681.6        |                  |     |   |        |  |           |  |      |      |   |  |
| S.F.   |  | 1.15              |       | DESIGN  |            | C                               |       | CODE      |       | G                   |       | S.F.         |                  | 1.0 |   | DESIGN |  | C         |  | CODE |      | H |  |
| NEMA NOM.EFF   |  |                   | 95.4  |         |            | NOM. P.F.                       |       |           | 0.83  |                     |       | NEMA NOM.EFF |                  |     | 95.0  |        |  | NOM. P.F. |  |      | 0.86 |   |  |
| NEMA MIN.EFF   |  |                   | 95.0  |         |            | MAX. KVAR                       |       |           | 81.3  |                     |       | NEMA MIN.EFF |                  |     | 94.3  |        |  | MAX. KVAR |  |      | 84.5 |   |  |
| PLATINUM RTD 3XPT100   |  |                   |       |         |            | SPACE HEATER 1X200W 115V(H1,H2) |       |           |       |                     |       |              |                  |     |   |        |  |           |  |      |      |   |  |
| Designed specifically for use on crushing and pulverizing equipment and other equipment requiring extremely high starting torques and breakdown torques. |  |                   |       |         |            |                                 |       |           |       |                     |       | CC041B       |                  |     |   |        |  |           |  |      |      |   |  |
| Hernando, MS 38632   |  |                   |       |         |            |                                 |       |           |       |                     |       |              |                  |     |   |        |  |           |  |      |      |   |  |

### APPLICATIONS:

Special purpose use on crushing and pulverizing equipment and other industrial equipment requiring extremely high starting torques and breakdown torques.