

## PE587U-350-6C

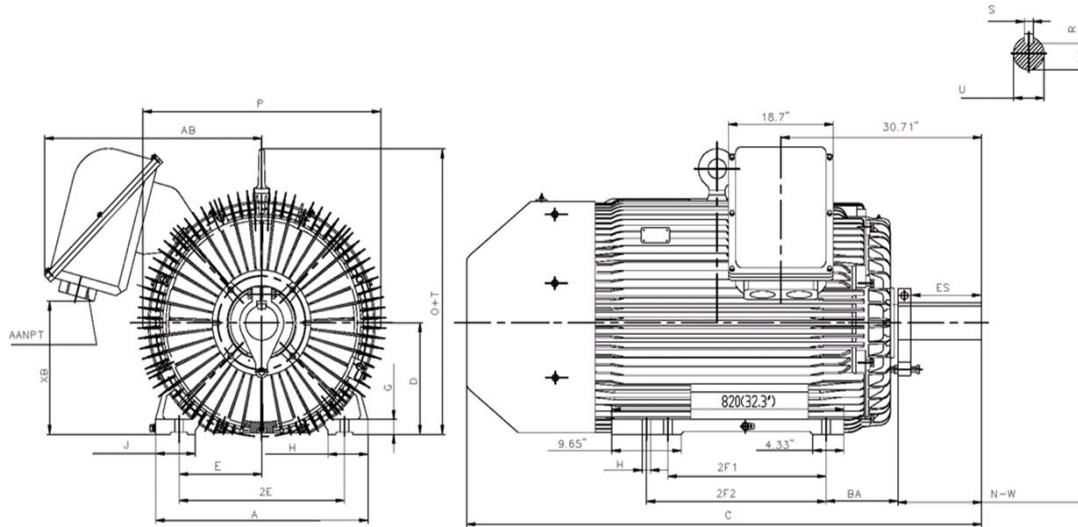
CRUSHER DUTY MOTOR

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    |
| 350 | 1200 | 587U  | 29.53    | 32.38 | 71.65 | 14.50 | 1.97 | 1.13 | 5.51 | 11.50 | 23.00 | 22.00 | 25.00 | 41.36 | 33.07 | 5.88 | 10.00 |

| Shaft Extension, Key Set |       |       |      |       |       | Conduit Box |       | Bearings |      | Mount |
|--------------------------|-------|-------|------|-------|-------|-------------|-------|----------|------|-------|
| U                        | V     | R     | S    | ES    | N-W   | AA          | AB    | DE       | ODE  |       |
| 3.875                    | 11.25 | 3.817 | 1.00 | 10.00 | 11.63 | 2 X 3"      | 28.15 | NU324    | 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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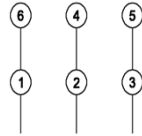
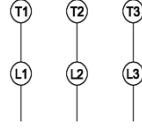


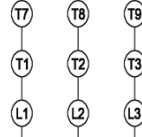
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### PERFORMANCE DATA

| HP  | RPM  | Frame | Voltage | Frequency (Hz) | Full Load S.F. | Insulation Class | NEMA Design | Slip (%) | NEMA Code | Enclosure Type | IP Rating | Max. Ambient |
|-----|------|-------|---------|----------------|----------------|------------------|-------------|----------|-----------|----------------|-----------|--------------|
| 350 | 1189 | 587U  | 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%  | Min. | 100%         | 75%   | 50%   | FLT            | LRT % | BDT % | NU324      | 6319        | 12 Lead Δ  | 5176          |
| 390.4       | 2550 | 95.8           | 95.3 | 94.8 | 95.0 | 0.852        | 0.825 | 0.760 | 2088           | 200   | 230   |            |             |            |               |

### NAME PLATE

|  |                           |                |                 |                      |                          |                |                 |     |               |   |  |  |
|--|---------------------------|----------------|-----------------|----------------------|--------------------------|----------------|-----------------|-----|---------------|---|--|--|
|    |                           |                |                 |                      |                          |                |                 |     |               | <b>CONNECTION DIAGRAMS</b><br><b>Across The Line</b><br> |  |  |
| CAT NO: PE587U-350-6C  |                           |                | FRAME 587U      |                      |                          | PHASE 3        |                 |     |               |   |  |  |
| DE BRG NU324   |                           | ODE BRG 6319   |                 | CONN. 12 Lead Δ      |                          |                |                 |     |               |   |  |  |
| MAX AMB. 40° C   |                           | INS. CLASS F   |                 | RATING CONT          |                          | WEIGHT 5176    |                 |     |               |   |  |  |
| LUBRICATION Mobil Polyrex EM   |                           |                |                 | SER                  |                          |                |                 |     |               |   |  |  |
| 60 HERTZ DATA  | HP                        | 350            | RPM             | 1189                 | HP                       | 350            | RPM             | 990 | 50 HERTZ DATA |   |  |  |
|  | VOLTS 460                 |                |                 |                      | VOLTS 380                |                |                 |     |               |   |  |  |
|  | F.L. AMPS 390.4           |                |                 |                      | F.L. AMPS 472.6          |                |                 |     |               |   |  |  |
|  | S.F. AMPS 449.0           |                |                 |                      | S.F. AMPS 472.6          |                |                 |     |               |   |  |  |
|  | S.F. 1.15 DESIGN C CODE G |                |                 |                      | S.F. 1.0 DESIGN C CODE H |                |                 |     |               |   |  |  |
|  | NEMA NOM.EFF. 95.8 %      |                | NOM. P.F. 0.852 |                      | NEMA NOM.EFF. 95.0 %     |                | NOM. P.F. 0.852 |     |               |   |  |  |
| NEMA MIN.EFF. 95.0 %   |                           | MAX. KVAR 58.0 |                 | NEMA MIN.EFF. 94.3 % |                          | MAX. KVAR 60.3 |                 |     |               |   |  |  |
| Designed specifically for use on crushing and pulverizing equipment and other equipment requiring extremely high starting torques and breakdown torques.   |                           |                |                 |                      |                          |                |                 |     |               | <b>PWS Start</b><br>                                     |  |  |
| ISO9001 CERTIFIED   CC041B<br>Hernando, MS 38632 |                           |                |                 |                      |                          |                |                 |     |               | <b>PWS Run</b><br>                                       |  |  |

### APPLICATIONS:

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