

## PE449T-250-4C

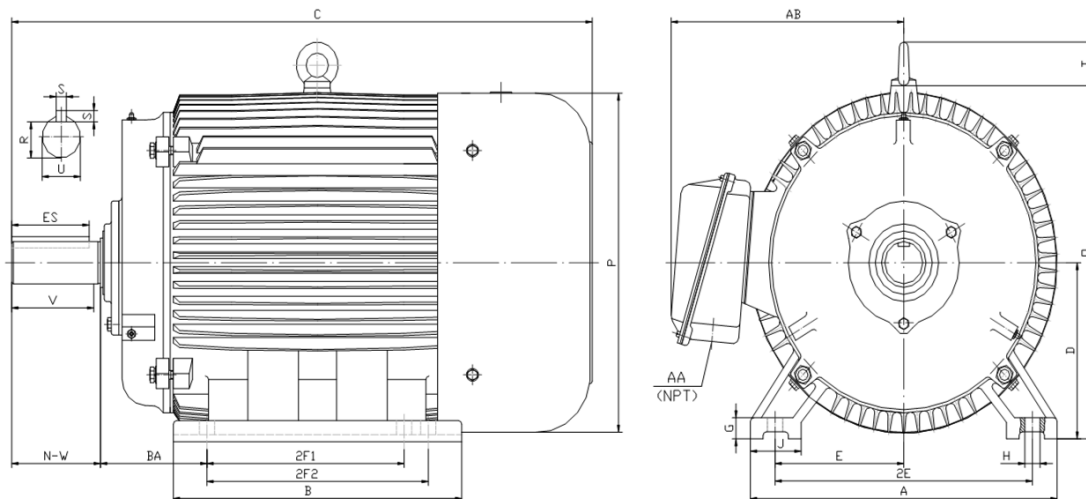
CRUSHER DUTY ELECTRIC MOTOR

NEMA PREMIUM EFFICIENCY

TOTALLY ENCLOSED FAN COOLED

INVERTER DUTY 10:1 CT; 20:1 VT - NEMA MG1 PART 31

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   |
| 250 | 1800 | 449T  | 21.70    | 31.40 | 52.80 | 11.00 | 1.35 | 0.81 | 3.35 | 9.00 | 18.00 | 20.00 | 25.00 | 23.00 | 23.40 | 3.00 | 7.50 |

| Shaft Extension, Key Set |      |       |       |      |      | Conduit Box |       | Bearings |      | Mount |
|--------------------------|------|-------|-------|------|------|-------------|-------|----------|------|-------|
| U                        | V    | R     | S     | ES   | N-W  | AA          | AB    | DE       | ODE  |       |
| 3.375                    | 8.25 | 2.880 | 0.875 | 6.91 | 8.50 | 3.00        | 19.90 | NU319    | 6318 | 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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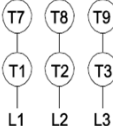
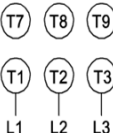
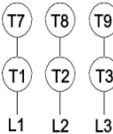
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### PERFORMANCE DATA

| HP  | RPM  | Frame | Voltage | Frequency (Hz) | Full Load S.F. | Insulation Class | NEMA Design | Slip (%) | NEMA Code | Enclosure Type | IP Rating | Max. Ambient |
|-----|------|-------|---------|----------------|----------------|------------------|-------------|----------|-----------|----------------|-----------|--------------|
| 250 | 1790 | 449T  | 460     | 60             | 1.15           | F                | C           | 0.6      | 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 % | NU319      | 6318        | 6 Lead Δ   | 2120          |
| 283.0       | 1825 | 95.0           | 94.5 | 94.0 | 94.1 | 0.870        | 0.860 | 2.830 | 738.0          | 200   | 230   |            |             |            |               |

### NAME PLATE

|                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |           |  |                     |  |           |  |                       |  |       |  |                                                                                       |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------|--|---------------------|--|-----------|--|-----------------------|--|-------|--|---------------------------------------------------------------------------------------|--|
| <div><div>North American Electric, Inc.</div></div> <div></div>                                                                                                                                                                                           |  |           |  |                     |  |           |  |                       |  |       |  | CONNECTION<br>DIAGRAMS (460V)                                                         |  |
| INVERTER DUTY 20:1 VT; 10:1 CT                                                                                                                                                                                                                                                                                                                                                                                                  |  |           |  |                     |  |           |  |                       |  |       |  | Across The Line                                                                       |  |
| CAT NO: PE449T-250-4C                                                                                                                                                                                                                                                                                                                                                                                                           |  |           |  | FRAME 449T          |  |           |  | PHASE 3               |  |       |  |  |  |
| HZ 60                                                                                                                                                                                                                                                                                                                                                                                                                           |  | S.F. 1.15 |  | HZ 50               |  | S.F. 1.0  |  | ENCL TEFC             |  | IP 55 |  |                                                                                       |  |
| HP 250                                                                                                                                                                                                                                                                                                                                                                                                                          |  | RPM 1790  |  | HP 250              |  | RPM 1488  |  | DUTY CONT             |  | DES C |  |                                                                                       |  |
| VOLTS 460                                                                                                                                                                                                                                                                                                                                                                                                                       |  |           |  | VOLTS 380           |  |           |  | AMB 40° C             |  | INS F |  |                                                                                       |  |
| FLA 283.0                                                                                                                                                                                                                                                                                                                                                                                                                       |  |           |  | FLA 348             |  |           |  | DE BEARING NU319      |  |       |  |                                                                                       |  |
| CODE G                                                                                                                                                                                                                                                                                                                                                                                                                          |  | P.F. 0.87 |  | CODE D              |  | P.F. 0.87 |  | ODE BEARING 6318      |  |       |  |                                                                                       |  |
| EFF 95.0                                                                                                                                                                                                                                                                                                                                                                                                                        |  | MIN 94.1  |  | EFF 93.5            |  | MIN 92.4  |  | LUB: Mobil Polyrex EM |  |       |  |                                                                                       |  |
| MOTOR WEIGHT 2120.0 LBS                                                                                                                                                                                                                                                                                                                                                                                                         |  |           |  | CONNECTION 6 Lead Δ |  |           |  | SER NO                |  |       |  |                                                                                       |  |
| <div>General purpose use on industrial machinery installed in damp, dusty or dirty environments.</div> <div></div> <div>CC 082A</div> <div>Hernando, Mississippi</div> |  |           |  |                     |  |           |  |                       |  |       |  | PWS Start                                                                             |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |           |  |                     |  |           |  |                       |  |       |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |           |  |                     |  |           |  |                       |  |       |  | PWS Run                                                                               |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |           |  |                     |  |           |  |                       |  |       |  |  |  |

### APPLICATIONS:

General purpose use on pumps, fans, blowers, compressors, conveyors, material handling and other industrial machinery installed in damp, dusty or dirty environments.