



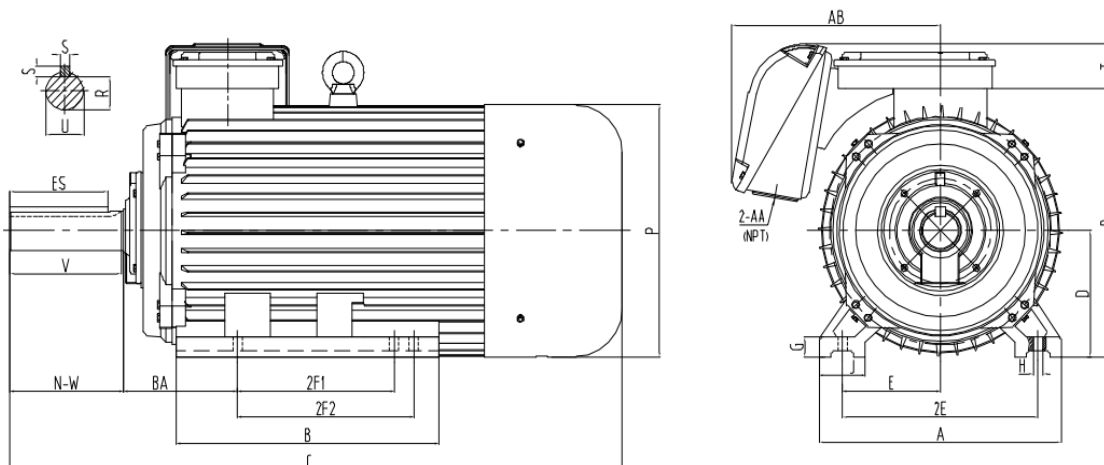
## PE505UZ-250-6C

GENERAL PURPOSE ELECTRIC MOTOR

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 | 1200 | 505UZ | 24.80    | 26.80 | 62.60 | 12.50 | 1.90 | 0.94 | 4.80 | 10.00 | 20.00 | 16.00 | 18.00 | 26.60 | 24.30 | 4.50 | 8.50 |

| Shaft Extension, Key Set |       |       |       |       |       | Conduit Box |       | Bearings |      | Mount |
|--------------------------|-------|-------|-------|-------|-------|-------------|-------|----------|------|-------|
| U                        | V     | R     | S     | ES    | N-W   | AA          | AB    | DE       | ODE  |       |
| 3.875                    | 10.88 | 3.309 | 1.000 | 10.00 | 11.63 | 3.00        | 21.30 | NU322    | 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 |
|-----|------|-------|---------|----------------|----------------|------------------|-------------|----------|-----------|----------------|-----------|--------------|
| 250 | 1190 | 505UZ | 460     | 60             | 1.15           | F                | C           | 0.8      | 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 % | NU322      | 6319        | 6 Lead Δ   | 2800          |
| 280.0       | 1825 | 95.8           | 95.4 | 95.0 | 95.0 | 0.870        | 0.850 | 0.780 | 1105.0         | 200   | 260   |            |             |            |               |

### NAME PLATE

|                                                                                                                                                                                                                                                               |  |                |                     |        |       |                  |       |                       |       |                                                                                                                                                                   |   |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------|---------------------|--------|-------|------------------|-------|-----------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|--|
| <div><div><div><div>N</div><div></div></div><div>North American Electric</div></div><div><div>AC INDUCTION MOTOR</div><div>INVERTER DUTY 20:1 VT; 10:1 CT</div></div></div> |  |                |                     |        |       |                  |       |                       |       | CONNECTION<br>DIAGRAMS (460V)                                                                                                                                     |   |  |
|                                                                                                                                                                                                                                                               |  |                |                     |        |       |                  |       |                       |       | Across The Line                                                                                                                                                   |   |  |
|                                                                                                                                                                                                                                                               |  |                |                     |        |       |                  |       |                       |       | <div><div><div>T7</div><div>T8</div><div>T9</div></div><div><div>T1</div><div>T2</div><div>T3</div></div><div><div>L1</div><div>L2</div><div>L3</div></div></div> |   |  |
| CAT NO:                                                                                                                                                                                                                                                       |  | PE505UZ-250-6C |                     |        | FRAME |                  | 505UZ |                       | PHASE |                                                                                                                                                                   | 3 |  |
| HZ 60                                                                                                                                                                                                                                                         |  | S.F. 1.15      |                     | HZ 50  |       | S.F. 1.0         |       | ENCL TEFC             |       | IP 55                                                                                                                                                             |   |  |
| HP 250                                                                                                                                                                                                                                                        |  | RPM 1190       |                     | HP 250 |       | RPM 990          |       | DUTY CONT             |       | DES C                                                                                                                                                             |   |  |
| VOLTS 460                                                                                                                                                                                                                                                     |  |                | VOLTS 380           |        |       | AMB 40° C        |       |                       | INS F |                                                                                                                                                                   |   |  |
| FLA 280.0                                                                                                                                                                                                                                                     |  |                | FLA 335             |        |       | DE BEARING NU322 |       |                       |       |                                                                                                                                                                   |   |  |
| CODE G                                                                                                                                                                                                                                                        |  | P.F. 0.87      |                     | CODE F |       | P.F. 0.89        |       | ODE BEARING 6319      |       |                                                                                                                                                                   |   |  |
| EFF 95.8                                                                                                                                                                                                                                                      |  | MIN 95.0       |                     | EFF 95 |       | MIN 94.1         |       | LUB: Mobil Polyrex EM |       |                                                                                                                                                                   |   |  |
| MOTOR WEIGHT 2800.0 LBS                                                                                                                                                                                                                                       |  |                | CONNECTION 6 Lead Δ |        |       | SER NO           |       |                       |       |                                                                                                                                                                   |   |  |
| <div><div>General purpose use on industrial machinery installed in damp, dusty or dirty environments.</div><div>Hernando, Mississippi</div></div>                                                                                                             |  |                |                     |        |       |                  |       |                       |       | <div><div><div>T7</div><div>T8</div><div>T9</div></div><div><div>T1</div><div>T2</div><div>T3</div></div><div><div>L1</div><div>L2</div><div>L3</div></div></div> |   |  |
|                                                                                                                                                                                                                                                               |  |                |                     |        |       |                  |       |                       |       | PWS Run                                                                                                                                                           |   |  |
|                                                                                                                                                                                                                                                               |  |                |                     |        |       |                  |       |                       |       | <div><div><div>T7</div><div>T8</div><div>T9</div></div><div><div>T1</div><div>T2</div><div>T3</div></div><div><div>L1</div><div>L2</div><div>L3</div></div></div> |   |  |

### APPLICATIONS:

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