

## PE324TC-40-4

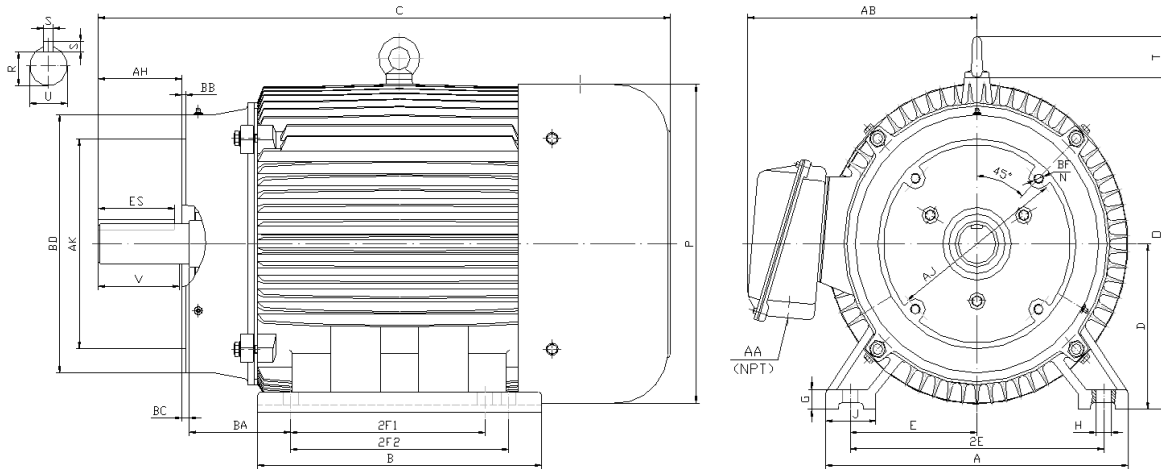
GENERAL PURPOSE ELECTRIC MOTOR

NEMA PREMIUM EFFICIENCY

THREE PHASE, TOTALLY ENCLOSED FAN COOLED - C-FLANGE W/ FEET

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   |
| 40 | 1800 | 324TC | 15.50    | 13.20 | 29.80 | 8.00 | 1.00 | 0.66 | 2.75 | 6.25 | 12.50 | 10.50 | 0.00 | 15.90 | 15.70 | 2.60 | 5.25 |

| FLANGE |       |       |      |      |       |          | Shaft Extension, Key Set |      |      |      |      |     | Conduit Box |       | Bearings |      | Mount |
|--------|-------|-------|------|------|-------|----------|--------------------------|------|------|------|------|-----|-------------|-------|----------|------|-------|
| AH     | AJ    | AK    | BB   | BC   | BD    | BF       | U                        | V    | R    | S    | ES   | N-W | AA          | AB    | DE       | ODE  |       |
| 5.00   | 11.00 | 12.50 | 0.25 | 0.25 | 14.00 | 4*5/8-11 | 2.13                     | 5.00 | 1.85 | 0.50 | 3.91 | NA  | 2.00        | 12.30 | 6312     | 6312 |       |

**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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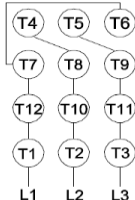
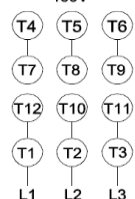
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### PERFORMANCE DATA

| HP | RPM  | Frame | Voltage     | Frequency (Hz) | Full Load S.F. | Insulation Class | NEMA Design | Slip (%) | NEMA Code | Enclosure Type | IP Rating | Max. Ambient |
|----|------|-------|-------------|----------------|----------------|------------------|-------------|----------|-----------|----------------|-----------|--------------|
| 40 | 1780 | 324TC | 208-230/460 | 60             | 1.15           | F                | B           | 1.1      | 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 % |            |             |              |               |
| 46.6        | 290.0 | 94.1           | 94.6 | 94.6 | 93.0 | 0.830        | 0.790 | 0.700 | 118.8          | 160   | 245   | 6312       | 6312        | 12 Lead 2Δ/Δ | 551           |

### NAME PLATE

|                                                                                                                                                                                                                                                                                                                                                           |  |           |  |                         |  |             |  |                       |  |                                                                                      |  |       |  |  |  |  |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------|--|-------------------------|--|-------------|--|-----------------------|--|--------------------------------------------------------------------------------------|--|-------|--|--|--|--|--|--|--|
|  North American Electric, Inc.                                                                                                                                                                                                                                         |  |           |  |                         |  |             |  |                       |  |  |  |       |  |  |  |  |  |  |  |
| INVERTER DUTY 20:1 VT; 10:1 CT                                                                                                                                                                                                                                                                                                                            |  |           |  |                         |  |             |  |                       |  |                                                                                      |  |       |  |  |  |  |  |  |  |
| CAT NO: PE324TC-40-4                                                                                                                                                                                                                                                                                                                                      |  |           |  |                         |  | FRAME 324TC |  |                       |  | PHASE 3                                                                              |  |       |  |  |  |  |  |  |  |
| HZ 60                                                                                                                                                                                                                                                                                                                                                     |  | S.F. 1.15 |  | HZ 50                   |  | S.F. 1.0    |  | ENCL TEFC             |  | IP 55                                                                                |  |       |  |  |  |  |  |  |  |
| HP 40                                                                                                                                                                                                                                                                                                                                                     |  | RPM 1780  |  | HP 40                   |  | RPM 1470    |  | DUTY CONT             |  | DES B                                                                                |  |       |  |  |  |  |  |  |  |
| VOLTS 208-230/460                                                                                                                                                                                                                                                                                                                                         |  |           |  | VOLTS 190/380           |  |             |  | AMB 40° C             |  |                                                                                      |  | INS F |  |  |  |  |  |  |  |
| FLA 100 - 93.2 / 46.6                                                                                                                                                                                                                                                                                                                                     |  |           |  | FLA 114/57              |  |             |  | DE BEARING 6312       |  |                                                                                      |  |       |  |  |  |  |  |  |  |
| CODE G                                                                                                                                                                                                                                                                                                                                                    |  | P.F. 0.83 |  | CODE F                  |  | P.F. 0.85   |  | ODE BEARING 6312      |  |                                                                                      |  |       |  |  |  |  |  |  |  |
| EFF 94.1                                                                                                                                                                                                                                                                                                                                                  |  | MIN 93.0  |  | EFF 92.8                |  | MIN 91.5    |  | LUB: Mobil Polyrex EM |  |                                                                                      |  |       |  |  |  |  |  |  |  |
| MOTOR WEIGHT 551 LBS                                                                                                                                                                                                                                                                                                                                      |  |           |  | CONNECTION 12 Lead 2Δ/Δ |  |             |  | SER NO                |  |                                                                                      |  |       |  |  |  |  |  |  |  |
| General purpose use on industrial machinery installed in damp, dusty or dirty environments.                                                                                                                                                                                                                                                               |  |           |  |                         |  |             |  |                       |  |                                                                                      |  |       |  |  |  |  |  |  |  |
| Hernando, Mississippi                                                                                                                                                                                                                                                                                                                                     |  |           |  |                         |  |             |  |                       |  |                                                                                      |  |       |  |  |  |  |  |  |  |
| <div></div> |  |           |  |                         |  |             |  |                       |  |                                                                                      |  |       |  |  |  |  |  |  |  |
| <div>CONNECTION DIAGRAMS</div> <div>208-230V</div> <div></div> <div>460V</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.