

## PE284T-25-2

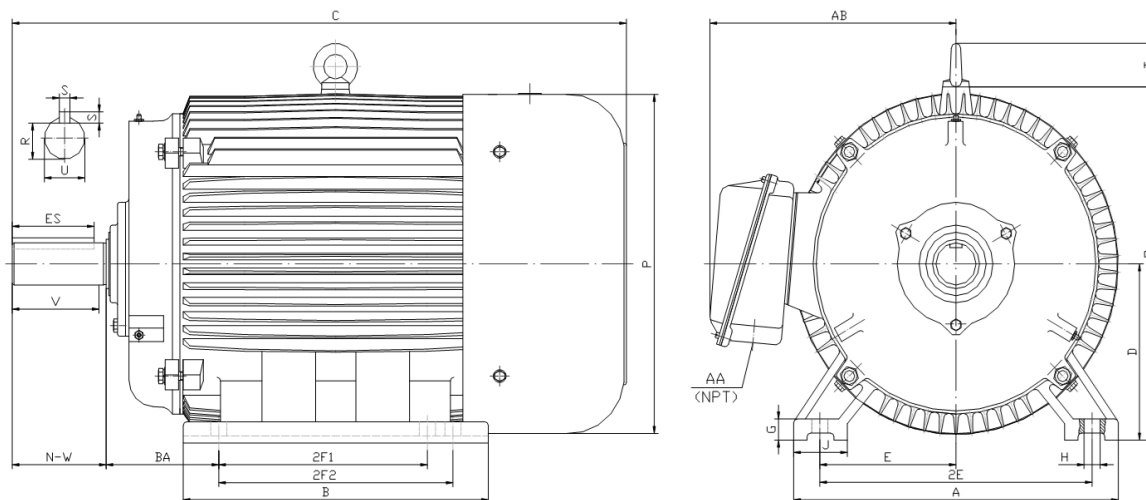
GENERAL PURPOSE ELECTRIC MOTOR

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   |
| 25 | 3600 | 284T  | 14.00    | 11.70 | 26.60 | 7.00 | 0.85 | 0.53 | 2.75 | 5.50 | 11.00 | 9.50 | 0.00 | 14.50 | 14.00 | 2.20 | 4.75 |

| Shaft Extension, Key Set |      |       |       |      |      | Conduit Box |       | Bearings |      | Mount |
|--------------------------|------|-------|-------|------|------|-------------|-------|----------|------|-------|
| U                        | V    | R     | S     | ES   | N-W  | AA          | AB    | DE       | ODE  |       |
| 1.875                    | 4.38 | 1.591 | 0.500 | 3.28 | 4.62 | 1.50        | 11.30 | 6311     | 6311 | 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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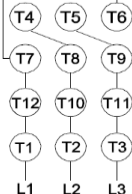
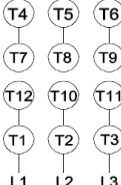
Factory Certified for T2B Class I, Division II, Groups A,B,C & D and Class II, Division II, Groups F & G

### 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 |
|----|------|-------|-------------|----------------|----------------|------------------|-------------|----------|-----------|----------------|-----------|--------------|
| 25 | 3540 | 284T  | 208-230/460 | 60             | 1.15           | F                | B           | 1.7      | 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 % | 6311       | 6311        | 12 Lead 2Δ/Δ | 383           |
| 28.5        | 182 | 91.7           | 91.2 | 90.0 | 90.2 | 0.900        | 0.870 | 0.810 | 37.2           | 150   | 240   |            |             |              |               |

### NAME PLATE

|                                                                                                                          |  |                  |  |                                |  |                  |  |                              |  |                                                                                      |  |                                                                                                                                                                                                                                                    |
|--------------------------------------------------------------------------------------------------------------------------|--|------------------|--|--------------------------------|--|------------------|--|------------------------------|--|--------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <b>North American Electric, Inc.</b> |  |                  |  |                                |  |                  |  |                              |  |  |  | <b>CONNECTION<br/>DIAGRAMS</b><br><b>208-230V</b><br><br><b>460V</b><br> |
| <b>INVERTER DUTY 20:1 VT; 10:1 CT</b>                                                                                    |  |                  |  |                                |  |                  |  |                              |  |                                                                                      |  |                                                                                                                                                                                                                                                    |
| <b>CAT NO:</b> PE284T-25-2                                                                                               |  |                  |  | <b>FRAME</b> 284T              |  |                  |  | <b>PHASE</b> 3               |  |                                                                                      |  |                                                                                                                                                                                                                                                    |
| <b>HZ</b> 60                                                                                                             |  | <b>S.F.</b> 1.15 |  | <b>HZ</b> 50                   |  | <b>S.F.</b> 1.0  |  | <b>ENCL</b> TEFC             |  | <b>IP</b> 55                                                                         |  |                                                                                                                                                                                                                                                    |
| <b>HP</b> 25                                                                                                             |  | <b>RPM</b> 3540  |  | <b>HP</b> 25                   |  | <b>RPM</b> 2930  |  | <b>DUTY</b> CONT             |  | <b>DES</b> B                                                                         |  |                                                                                                                                                                                                                                                    |
| <b>VOLTS</b> 208-230/460                                                                                                 |  |                  |  | <b>VOLTS</b> 190/380           |  |                  |  | <b>AMB</b> 40° C             |  | <b>INS</b> F                                                                         |  |                                                                                                                                                                                                                                                    |
| <b>FLA</b> 61 - 57 / 28.5                                                                                                |  |                  |  | <b>FLA</b> 69/34.5             |  |                  |  | <b>DE BEARING</b> 6311       |  |                                                                                      |  |                                                                                                                                                                                                                                                    |
| <b>CODE</b> G                                                                                                            |  | <b>P.F.</b> 0.90 |  | <b>CODE</b> F                  |  | <b>P.F.</b> 0.91 |  | <b>ODE BEARING</b> 6311      |  |                                                                                      |  |                                                                                                                                                                                                                                                    |
| <b>EFF</b> 91.7                                                                                                          |  | <b>MIN</b> 90.2  |  | <b>EFF</b> 90                  |  | <b>MIN</b> 88.5  |  | <b>LUB:</b> Mobil Polyrex EM |  |                                                                                      |  |                                                                                                                                                                                                                                                    |
| <b>MOTOR WEIGHT</b> 383 LBS                                                                                              |  |                  |  | <b>CONNECTION</b> 12 Lead 2Δ/Δ |  |                  |  | <b>SER NO</b>                |  |                                                                                      |  |                                                                                                                                                                                                                                                    |
| General purpose use on industrial machinery installed in damp, dusty or dirty environments.                              |  |                  |  |                                |  |                  |  |                              |  | CC 082A                                                                              |  |                                                                                                                                                                                                                                                    |
| Hernando, Mississippi                                                                                                    |  |                  |  |                                |  |                  |  |                              |  |                                                                                      |  |                                                                                                                                                                                                                                                    |

### APPLICATIONS:

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