



PE286JP-30-2

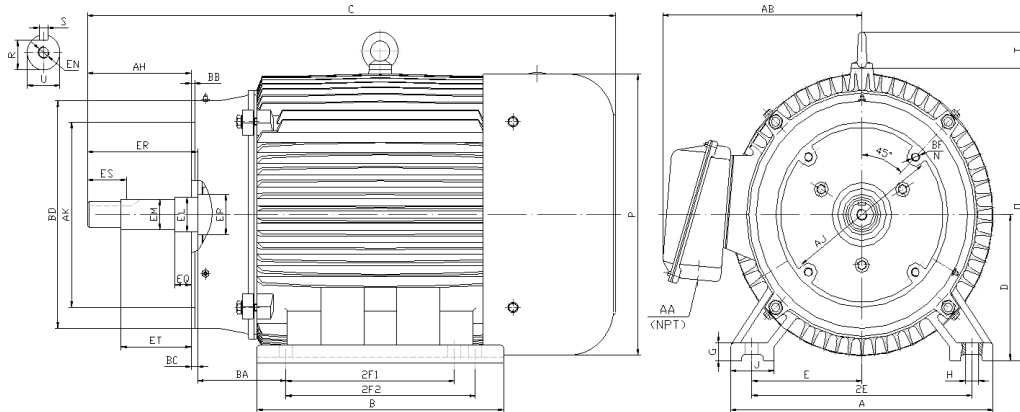
CLOSE COUPLED PUMP MOTORS

NEMA PREMIUM EFFICIENCY

TOTALLY ENCLOSED FAN COOLED, JP FRAME

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 |
| 30 | 3600 | 286JP | 14 | 13.2 | 31.85 | 7 | 0.85 | 0.53 | 2.75 | 5.5 | 11 | 9.5 | 11 | 14.5 | 14 | 2.2 | 4.75 |

| FLANGE | | | | | | | Shaft Extension, Key Set | | | | | | | | | | |
|--------|----|--------|-------|------|----|----------|--------------------------|-------|-------|-------|-------|------|-------|------|-------|--------|--------|
| AH | AJ | AK | BB | BC | BD | BF | U | R | S | EQ | ER | ES | ET | EP | EL | EM | EN |
| 8.156 | 11 | 12.500 | 0.312 | 0.25 | 14 | 4*5/8-11 | 1.2495 | 1.112 | 0.252 | 2.390 | 8.125 | 2.53 | 5.895 | 2.16 | 1.750 | 1.3750 | 1/2-13 |
| 8.094 | | 12.495 | 0.250 | | | | 1.2490 | 1.097 | 0.250 | 2.360 | | | 5.855 | | 1.748 | 1.3745 | |

| Conduit Box | | Bearings | | Mount |
|-------------|------|----------|------|-------|
| AA | AB | DE | ODE | |
| 1.5 | 11.3 | 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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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 |
|----|------|-------|-------------|----------------|----------------|------------------|-------------|----------|-----------|----------------|-----------|--------------|
| 30 | 3530 | 286JP | 208-230/460 | 60 | 1.15 | F | B | 1.9 | 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% | 100% | 75% | 50% | FLT | LRT % | BDT % | | | | |
| 34.5 | 217 | 91.7 | 91.5 | 90.5 | 0.90 | 0.87 | 0.80 | 44.5 | 150 | 260 | 6311 | 6311 | 12 Lead 2Δ/Δ | 412 |

NAME PLATE

| | | | | | | | | | | | | | | |
|--|-----------|--|-----------|-----------------------|-------|--|--|--------|--|---------------------|----------|--------------|--|--|
| | | AC INDUCTION MOTOR INVERTER DUTY 20:1 VT; 10:1 CT | | | | | | | | CONNECTION DIAGRAMS | | | | |
| CAT NO. PE286JP-30-2 | | FRAME 286JP | | PHASE 3 | | | | | | | | 208-230V | | |
| HZ 60 | S.F. 1.15 | HZ 50 | S.F. 1.0 | ENCL TEFC | IP 55 | | | | | | | | | |
| HP 30 | RPM 3530 | HP 30 | RPM 2920 | DUTY CONT | DES B | | | | | | | | | |
| VOLTS 208-230/460 | | VOLTS 190/380 | | AMB 40 °C | INS F | | | | | | | | | |
| AMPS 74 - 69 / 34.5 | | AMPS 82/41 | | DE BRG 6311 | | | | | | | | | | |
| CODE G | P.F. 0.90 | CODE F | P.F. 0.91 | ODE BRG 6311 | | | | | | | | | | |
| EFF 91.7 | MIN 90.2 | EFF 90.0 | MIN 88.5 | LUB: Mobil Polyrex EM | | | | | | | 460V | | | |
| MOTOR WEIGHT 412 | LBS | CONNECTION 12 Lead 2Δ/Δ | | SER NO | | | | | | | | | | |
| General purpose use on industrial machinery installed in damp, dusty or dirty environments. Hernando, Mississippi | | | | | | | | CC082A | | | | | | |

APPLICATIONS:

Specifically designed for use on industrial and commercial pumping units.