



Definite Purpose

NEMA

| | |
|----------------------|--------------------------|
| MOTOR MODEL: | PC3-CI-TF-326T-4-BR-D-50 |
| FACTORY TYPE: | TFC |

NEMA Cast Iron, TEFC

| ELECTRICAL DATA | | |
|------------------------------|--------------|-------|
| | 60 Hz | 50 Hz |
| Horsepower | 50.0 | - |
| Speed, RPM | 1770 | - |
| Voltage | 230 | - |
| # Phase | 3 | |
| Full Load Amps | 117.95 | - |
| Power Factor | 0.87 | - |
| Nominal Efficiency | 94.5 | - |
| 3/4 Load Efficiency | - | - |
| Service Factor | 1.25 | - |
| KVA Code | K | - |
| FL Amps. @ 208 V | - | - |
| Locked Rotor Current | 613.812 | - |
| Start Capacitor | - | |
| Start Capacitor V | - | |
| Run Capacitor | - | |
| Run Capacitor V | - | |
| Number of Leads | 3 | |
| Connection | DD/D | |
| Coil Resistance | - | |
| | | |
| Load | Efficiency % | P.F. |
| 50% | 93.78 | 0.71 |
| 75% | 94.29 | 0.81 |
| 100% | 94.03 | 0.85 |
| | | |
| FULL LOAD TEMPERATURE RISE | | |
| FL Temp Rise °C | 82.0 | - |
| | | |
| 3D Image Link | | |
| Not available for this motor | | |

| GENERAL DATA | | |
|--|---------------|-------|
| Frame Size | 326T | |
| Frame Enclosure | TEFC | |
| Mounting | Rigid | |
| Insulation Class | F | |
| Duty | Cont. / S1 | |
| NEMA Design | A | |
| Frame Material | Cast Iron | |
| Ingress Protection | 55 | |
| Tropicalization | true | |
| Cable Entry | 1-NPT 2" | |
| Feet Removable | true | |
| Double Drilled | true | |
| Paint Color | Graphite Gray | |
| Paint RAL | 7024 | |
| Weight lb | 600.862 | |
| | | |
| MECHANICAL DATA | | |
| DE Bearing | 6312C3 | |
| NDE Bearing | 6312C3 | |
| dB No-Load | - | |
| Rotor Wk ² , Lb-Ft ² | - | |
| Comp Ring (wavy washer) | DE | |
| | | |
| TORQUE VALUES | Torque lb-ft | % FLT |
| Locked Rotor Torque | 506.56 | 299.0 |
| Pull-Up Torque | 333.754 | 197.0 |
| Breakdown Torque | 520.113 | 307.0 |
| Full Load Torque | 169.418 | 100.0 |
| | | |
| SITE CONDITIONS | | |
| Ambient Temp °C | 40 | |
| Altitude Above Sea Level m | 1000 | |



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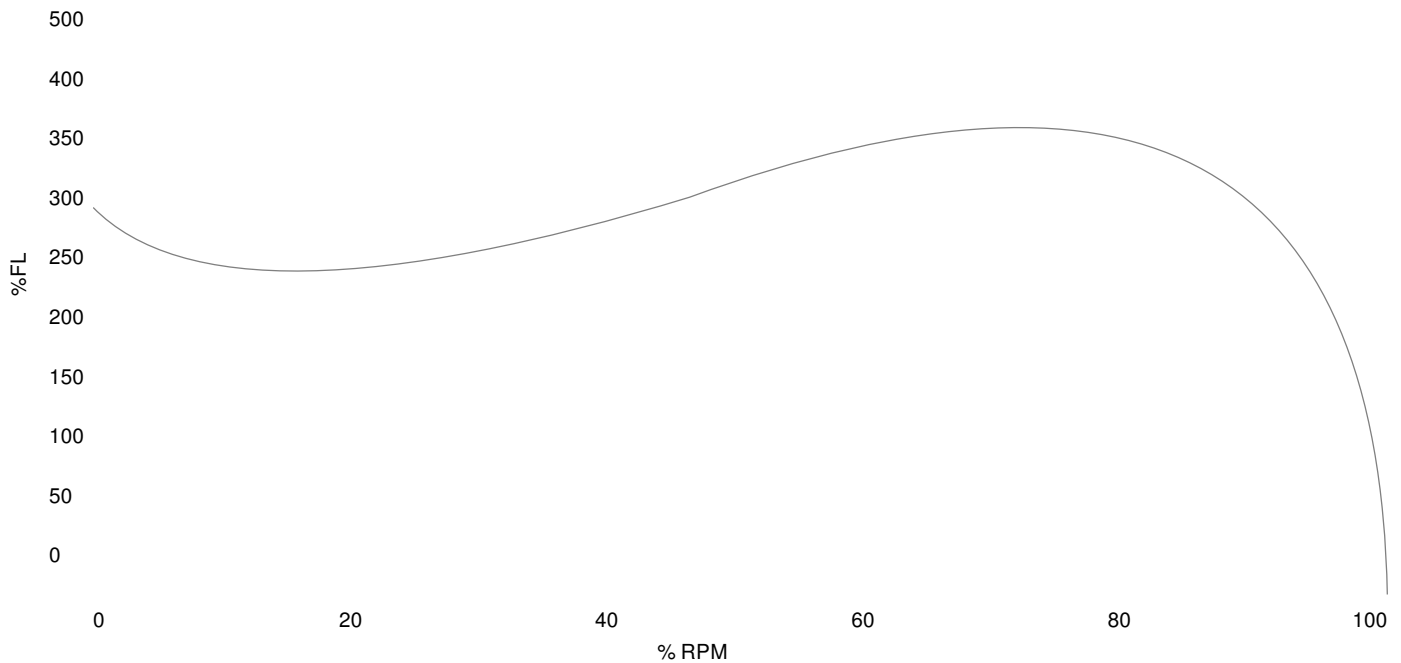
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| FACTORY TYPE: | TFC |

NEMA Cast Iron, TEFC

Non Sinusoidal (VFD) Output 50.0HP, 1770 RPM

Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

| Torque Values | Torque lb-ft | % FLT | Performance Values |
|---------------------|--------------|-------|----------------------|
| Locked Rotor Torque | 506.56 | 299.0 | Start Configuration |
| Pull-Up Torque | 333.754 | 197.0 | Starting Current (A) |
| Breakdown Torque | 520.113 | 307.0 | No-Load Current (A) |
| Full Load | 169.418 | 100.0 | No-Load Power Factor |

| % Load | Horsepower | Current, Amps | Input power, Kilowatts | Speed, RPM | Efficiency | PF |
|--------|------------|---------------|------------------------|------------|------------|------|
| 0 | - | 26.53 | - | - | - | - |
| 25 | 12.5 | 30.25 | 11.84 | 1795.2 | 90.58 | 0.49 |
| 50 | 25.0 | 40.19 | 22.87 | 1790.5 | 93.78 | 0.71 |
| 75 | 37.5 | 52.63 | 34.12 | 1785.5 | 94.29 | 0.81 |
| 100 | 50.0 | 67.01 | 45.63 | 1780.2 | 94.03 | 0.85 |
| 125 | 62.5 | 82.79 | 57.41 | 1774.4 | 93.41 | 0.87 |

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