



Pump Motors

NEMA

| | |
|----------------------|---------------------------|
| MOTOR MODEL: | GR3-CI-TF-324JP-4-BR-D-40 |
| FACTORY TYPE: | TXC |

Premium NEMA Cast Iron, TEFC

| ELECTRICAL DATA | | |
|------------------------------|--------------|---------|
| | 60 Hz | 50 Hz |
| Horsepower | 40.0 | 40.0 |
| Speed, RPM | 1770 | 1460 |
| Voltage | 230/460 | 190/380 |
| # Phase | 3 | |
| Full Load Amps | 97.07/48.54 | 110/55 |
| Power Factor | 0.86 | - |
| Nominal Efficiency | 94.1 | 91.5 |
| 3/4 Load Efficiency | - | - |
| Service Factor | 1.25 | 1.0 |
| KVA Code | L | F |
| FL Amps. @ 208 V | 107.342 | - |
| LRC @ 60Hz HV | 496.313 | - |
| Start Capacitor | - | |
| Start Capacitor V | - | |
| Run Capacitor | - | |
| Run Capacitor V | - | |
| Number of Leads | 12 | |
| Connection | DD/D | |
| Coil Resistance | - | |
| Date Code | - | |
| | | |
| Load | Efficiency % | P.F. |
| 50% | 93.22 | 0.73 |
| 75% | 93.77 | 0.82 |
| 100% | 93.48 | 0.86 |
| | | |
| FULL LOAD TEMPERATURE RISE | | |
| FL Temp Rise °C | 78.0 | - |
| | | |
| 3D Image Link | | |
| Not available for this motor | | |

| GENERAL DATA | | |
|--|---------------|-------|
| Frame Size | 324JP | |
| 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 | - | |
| Paint Color | Graphite Gray | |
| Paint RAL | 7024 | |
| Weight lb | 539.122 | |
| | | |
| MECHANICAL DATA | | |
| DE Bearing | 6312C3 | |
| NDE Bearing | 6312C3 | |
| dB No-Load | - | |
| Rotor Wk ² , Lb-Ft ² | - | |
| Comp Ring (wavey washer) | NDE | |
| | | |
| TORQUE VALUES | | % FLT |
| Locked Rotor Torque | 430.673 | 317.0 |
| Pull-Up Torque | 249.98 | 184.0 |
| Breakdown Torque | 400.784 | 295.0 |
| Full Load Torque | 135.859 | 100.0 |
| | | |
| SITE CONDITIONS | | |
| Ambient Temp °C | 40 | |
| Altitude Above Sea Level m | 1000 | |

*This report valid for above Date Code and newer models, please contact Techtop for more info.



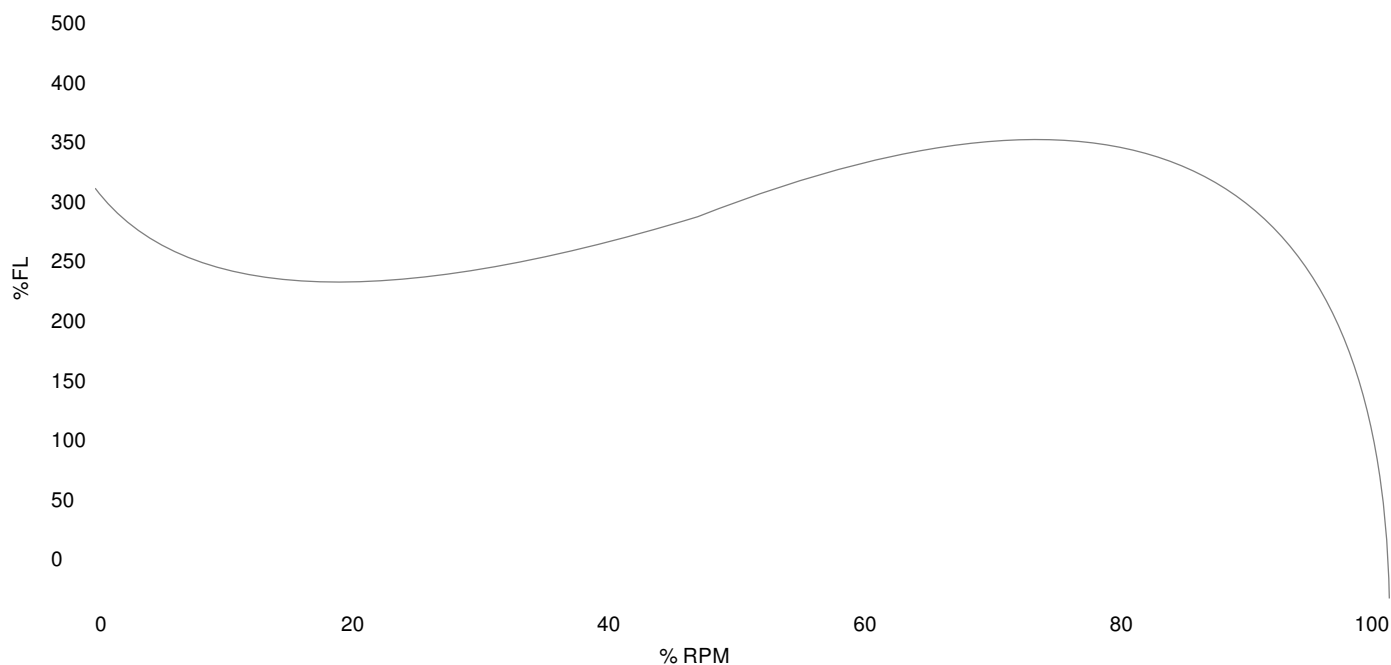
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Premium NEMA Cast Iron, TEFC

Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

| Torque Values | Torque lb-ft | % FLT | Performance Values |
|---------------------|--------------|-------|----------------------|
| Locked Rotor Torque | 430.673 | 317.0 | Start Configuration |
| Pull-Up Torque | 249.98 | 184.0 | Starting Current (A) |
| Breakdown Torque | 400.784 | 295.0 | No-Load Current (A) |
| Full Load | 135.859 | 100.0 | No-Load Power Factor |

| % Load | Horsepower | Current, Amps | Input power, Kilowatts | Speed, RPM | Efficiency | PF |
|--------|------------|---------------|------------------------|------------|------------|------|
| 0 | - | 20.61 | - | - | - | - |
| 25 | 10.0 | 23.81 | 9.61 | 1795.1 | 89.75 | 0.51 |
| 50 | 20.0 | 31.86 | 18.5 | 1790.4 | 93.22 | 0.73 |
| 75 | 30.0 | 42.04 | 27.59 | 1785.3 | 93.77 | 0.82 |
| 100 | 40.0 | 53.83 | 36.91 | 1779.7 | 93.48 | 0.86 |
| 125 | 50.0 | 66.72 | 46.47 | 1773.8 | 92.81 | 0.87 |

Techtop Industries
 2815 Colonnades Court
 Peachtree Corners, GA 30071
 Tel: 678-436-5540
 E-Mail: info@techttopind.com