



Pump Motors

NEMA

| | |
|----------------------|---------------------------|
| MOTOR MODEL: | BK3-CI-TF-445T-6-RR-G-125 |
| FACTORY TYPE: | - |

NEMA Cast Iron, TEFC

| ELECTRICAL DATA | | |
|------------------------------|------------------|-------|
| | 60 Hz | 50 Hz |
| Horsepower | 125.0 | - |
| Speed, RPM | 1139 | - |
| Voltage | 230/460/796 | - |
| # Phase | - | |
| Full Load Amps | 279.2/139.6/80.7 | - |
| Power Factor | 0.91 | 3.0 |
| Nominal Efficiency | 92.6 | - |
| 3/4 Load Efficiency | - | - |
| Service Factor | 1.15 | - |
| KVA Code | F | - |
| FL Amps. @ 208 V | - | - |
| LRC @ 60Hz HV | 862.0 | - |
| Start Capacitor | - | |
| Start Capacitor V | - | |
| Run Capacitor | - | |
| Run Capacitor V | - | |
| Number of Leads | 12 | |
| Connection | - | |
| Coil Resistance | - | |
| Date Code | - | |
| | | |
| Load | Efficiency % | P.F. |
| 50% | 93.73 | 0.788 |
| 75% | 94.75 | 0.86 |
| 100% | 95.0 | 0.849 |
| | | |
| FULL LOAD TEMPERATURE RISE | | |
| FL Temp Rise °C | - | - |
| | | |
| 3D Image Link | | |
| Not available for this motor | | |

| GENERAL DATA | | |
|--|-----------|-------|
| Frame Size | 445T | |
| Frame Enclosure | TEFC | |
| Mounting | Rigid | |
| Insulation Class | F | |
| Duty | - | |
| NEMA Design | D | |
| Frame Material | Cast Iron | |
| Ingress Protection | 55 | |
| Tropicalization | - | |
| Cable Entry | - | |
| Feet Removable | - | |
| Double Drilled | - | |
| Paint Color | - | |
| Paint RAL | - | |
| Weight lb | 1796.0 | |
| | | |
| MECHANICAL DATA | | |
| DE Bearing | NU6319 | |
| NDE Bearing | 6319C3 | |
| dB No-Load | - | |
| Rotor Wk ² , Lb-Ft ² | - | |
| Comp Ring (wavy washer) | - | |
| | | |
| TORQUE VALUES | | % FLT |
| Locked Rotor Torque | 1099.97 | 198.0 |
| Pull-Up Torque | 766.645 | 138.0 |
| Breakdown Torque | 1166.63 | 210.0 |
| Full Load Torque | 555.54 | 100.0 |
| | | |
| SITE CONDITIONS | | |
| Ambient Temp °C | - | |
| Altitude Above Sea Level m | - | |

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



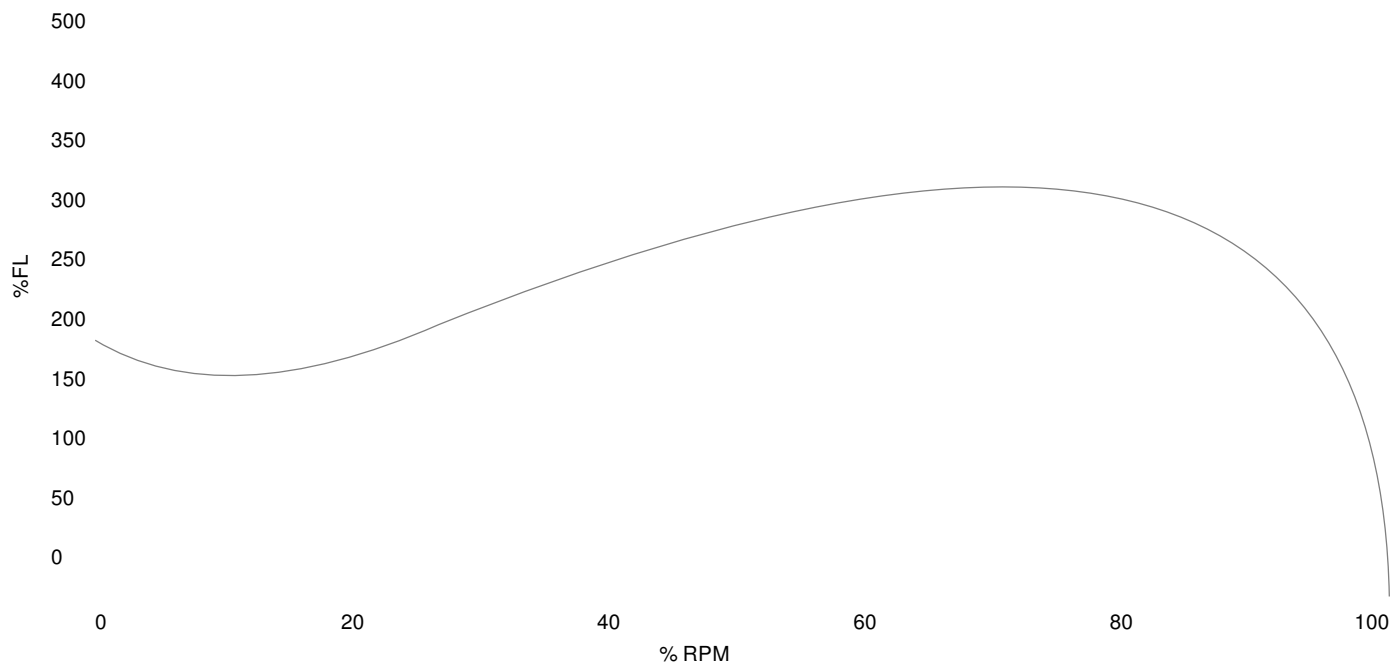
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Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

| Torque Values | Torque lb-ft | % FLT | Performance Values |
|---------------------|--------------|-------|----------------------|
| Locked Rotor Torque | 1099.97 | 198.0 | Start Configuration |
| Pull-Up Torque | 766.645 | 138.0 | Starting Current (A) |
| Breakdown Torque | 1166.63 | 210.0 | No-Load Current (A) |
| Full Load | 555.54 | 100.0 | No-Load Power Factor |

| % Load | Horsepower | Current, Amps | Input power, Kilowatts | Speed, RPM | Efficiency | PF |
|--------|------------|---------------|------------------------|------------|------------|-------|
| 0 | - | 41.95 | - | - | - | - |
| 25 | 31.25 | 55.63 | 25.87 | 1198.0 | 90.09 | 0.584 |
| 50 | 62.5 | 79.15 | 49.72 | 1196.0 | 93.73 | 0.788 |
| 75 | 93.75 | 107.64 | 73.78 | 1194.0 | 94.75 | 0.86 |
| 100 | 125.0 | 145.0 | 98.12 | 1180.0 | 95.0 | 0.849 |
| 125 | 156.25 | 171.8 | 122.59 | 1170.0 | 95.05 | 0.896 |

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