



IE3

IEC

| | |
|----------------------|----------------------------|
| MOTOR MODEL: | GR3-CI-TF-160MB3-2-BR-D-20 |
| FACTORY TYPE: | TCX |

IE3 IEC Cast Iron, TEFC

| ELECTRICAL DATA | | |
|--|---------------------|-------------|
| | 60 Hz | 50 Hz |
| Horsepower | 20.0 | 20.0 |
| Speed, RPM | 3530 | 2920 |
| Voltage | 230/460 | 190/380 |
| # Phase | 3 | |
| Full Load Amps | 46.4/23.2 | 58.8/29.4 |
| Power Factor | 0.89 | - |
| Nominal Efficiency | 91.0 | - |
| 3/4 Load Efficiency | - | - |
| Service Factor | 1.15 | 1.0 |
| KVA Code | H | F |
| FL Amps. @ 208 V | 51.31 | - |
| Locked Rotor Current | 288.478 | - |
| 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% | 88.28 | 0.7 |
| 75% | 90.59 | 0.8 |
| 100% | 91.36 | 0.86 |
| | | |
| FULL LOAD TEMPERATURE RISE | | |
| FL Temp Rise °C | 57.0 | 80.0 |
| | | |
| 3D Image Link | | |
| GR3-CI-TF-160MB3-2-BR-D-20 | | |

| GENERAL DATA | | |
|--|---------------|-------|
| Frame Size | 160M | |
| Frame Enclosure | TEFC | |
| Mounting | B3 | |
| Insulation Class | F | |
| Duty | Cont. / S1 | |
| NEMA Design | A | |
| Frame Material | Cast Iron | |
| Ingress Protection | 55 | |
| Tropicalization | true | |
| Cable Entry | 2-M32X1.5 | |
| Feet Removable | true | |
| Double Drilled | - | |
| Paint Color | Graphite Gray | |
| Paint RAL | 7024 | |
| Weight lb | 295.0 | |
| | | |
| MECHANICAL DATA | | |
| DE Bearing | 6309C3 | |
| NDE Bearing | 6309C3 | |
| dB No-Load | - | |
| Rotor Wk ² , Lb-Ft ² | - | |
| Comp Ring (wavey washer) | DE | |
| | | |
| TORQUE VALUES | | % FLT |
| Locked Rotor Torque | 105.645 | 358.0 |
| Pull-Up Torque | 61.6756 | 209.0 |
| Breakdown Torque | 130.138 | 441.0 |
| Full Load Torque | 29.5099 | 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 Techttop for more info.



IE3

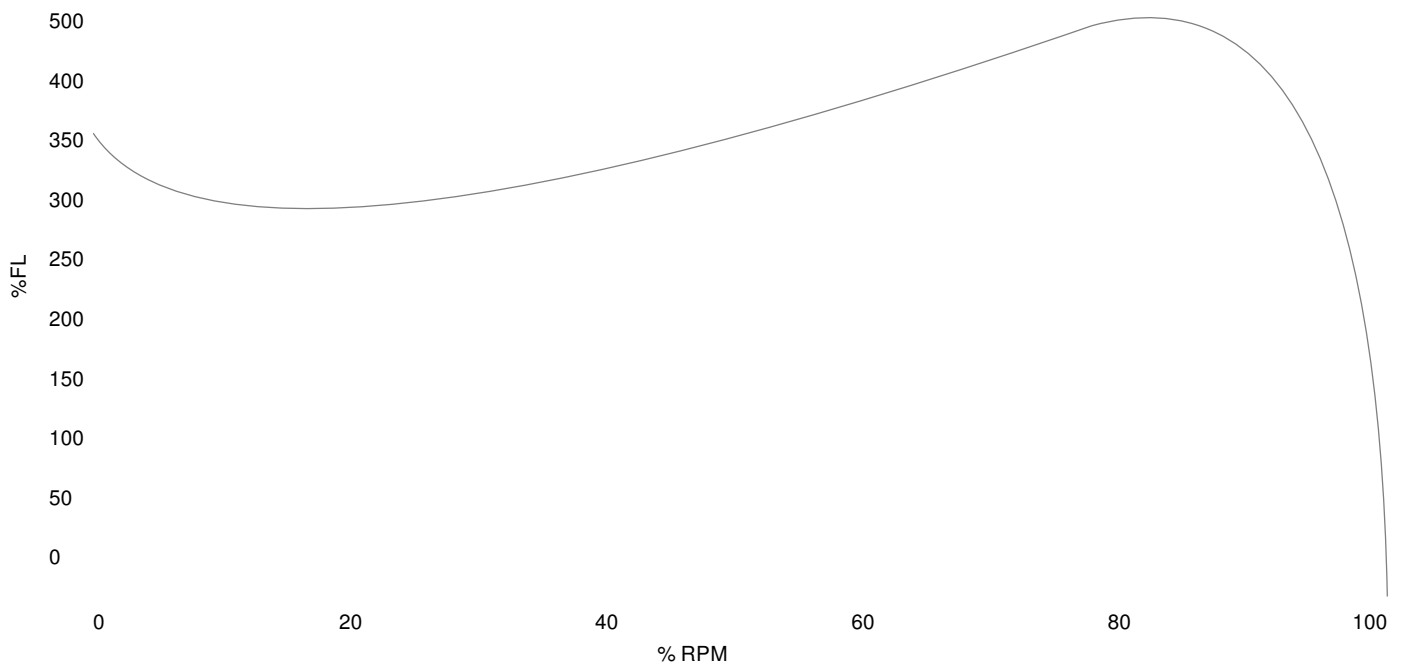
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IE3 IEC Cast Iron, TEFC

Non Sinusoidal (VFD) Output 20.0HP, 3530 RPM

Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

| Torque Values | Torque lb-ft | % FLT | Performance Values |
|---------------------|--------------|-------|----------------------|
| Locked Rotor Torque | 105.645 | 358.0 | Start Configuration |
| Pull-Up Torque | 61.6756 | 209.0 | Starting Current (A) |
| Breakdown Torque | 130.138 | 441.0 | No-Load Current (A) |
| Full Load | 29.5099 | 100.0 | No-Load Power Factor |

| % Load | Horsepower | Current, Amps | Input power, Kilowatts | Speed, RPM | Efficiency | PF |
|--------|------------|---------------|------------------------|------------|------------|------|
| 0 | - | 10.57 | - | - | - | - |
| 25 | 5.0 | 11.94 | 4.64 | 3592.4 | 80.73 | 0.49 |
| 50 | 10.0 | 15.25 | 8.5 | 3585.0 | 88.28 | 0.7 |
| 75 | 15.0 | 19.36 | 12.42 | 3577.3 | 90.59 | 0.8 |
| 100 | 20.0 | 24.09 | 16.42 | 3569.1 | 91.36 | 0.86 |
| 125 | 25.0 | 29.22 | 20.5 | 3560.6 | 91.45 | 0.88 |

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