IE3

# IEC

| MOTOR MODEL: | GR3-CI-TF-160MB35-4-BR-D-15 |
|---|---|
| FACTORY TYPE: | TCX |

## IE3 IEC Cast Iron, TEFC

| ELECTRICAL DATA | | |
|---|---|---|
| | 60 Hz | 50 Hz |
| Horsepower | 15.0 | 15.0 |
| Speed, RPM | 1760 | 1450 |
| Voltage | 230/460 | 190/380 |
| # Phase | 3 | |
| Full Load Amps | 37.2/18.6 | 45.2/22.6 |
| Power Factor | 0.81 | - |
| Nominal Efficiency | 92.4 | - |
| 3/4 Load Efficiency | - | - |
| Service Factor | 1.15 | 1.0 |
| KVA Code | J | F |
| FL Amps. @ 208 V | 41.13 | - |
| LRC @ 60Hz HV | 169.824 | - |
| 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% | 91.29 | 0.67 |
| 75% | 92.52 | 0.78 |
| 100% | 92.63 | 0.84 |

| FULL LOAD TEMPERATURE RISE | | |
|---|---|---|
| FL Temp Rise °C | 45.0 | 60.0 |

| 3D Image Link |
|---|
| GR3-CI-TF-160MB35-4-BR-D-15 |

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

| GENERAL DATA | |
|---|---|
| Frame Size | 160MB35 |
| Frame Enclosure | TEFC |
| Mounting | B35 |
| 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 | 280.0 |

| MECHANICAL DATA | |
|---|---|
| DE Bearing | 6309C3 |
| NDE Bearing | 6309C3 |
| dB No-Load | - |
| Rotor $Wk^2$, $Lb\text{-}Ft^2$ | - |
| Comp Ring (wavey washer) | - |

| TORQUE VALUES | Torque lb-ft | % FLT |
|---|---|---|
| Locked Rotor Torque | 130.197 | 290.0 |
| Pull-Up Torque | 109.994 | 245.0 |
| Breakdown Torque | 173.745 | 387.0 |
| Full Load Torque | 44.8954 | 100.0 |

| SITE CONDITIONS | |
|---|---|
| Ambient Temp °C | 40 |
| Altitude Above Sea Level m | 1000 |

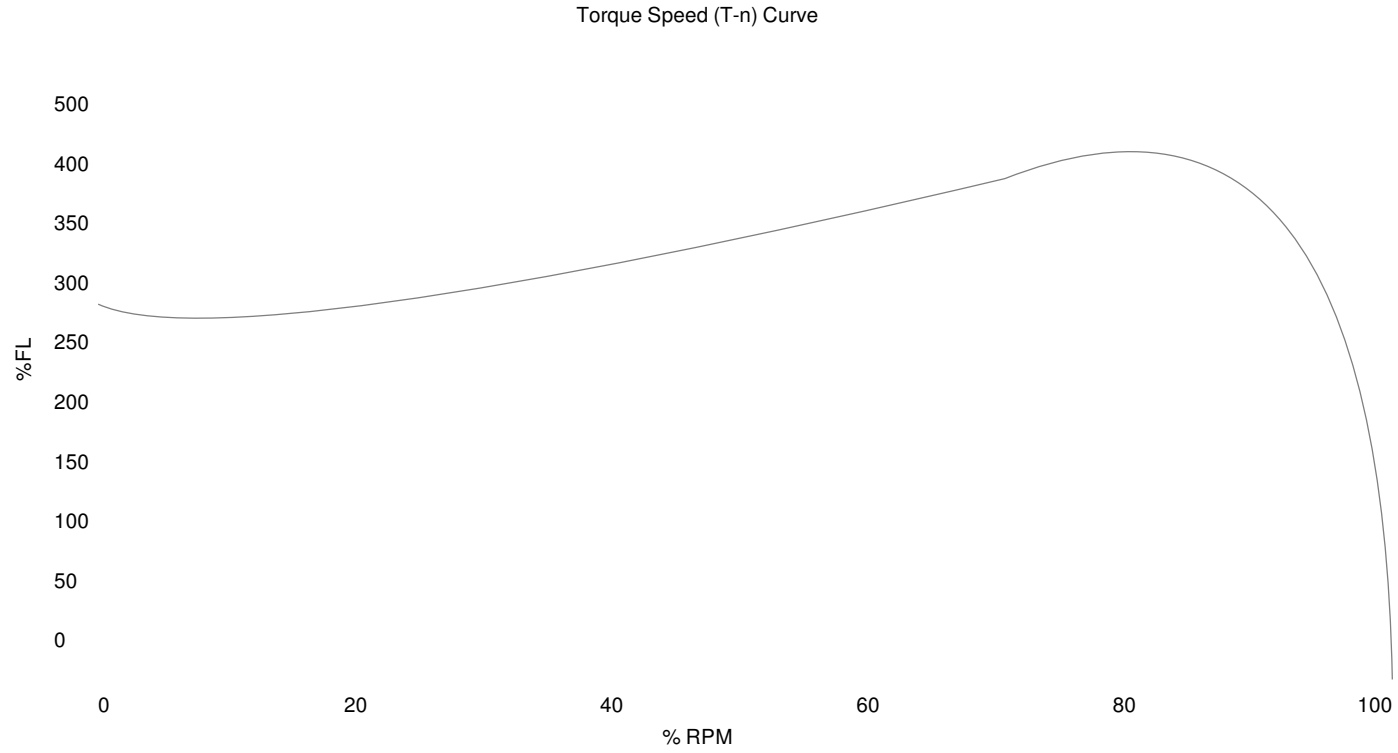
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| | |
|---|---|
| **MOTOR MODEL:** | GR3-CI-TF-160MB35-4-BR-D-15 |
| **FACTORY TYPE:** | TCX |

# IE3 IEC Cast Iron,  TEFC




Performance Load Values, High Voltage, 60Hz

| Torque Values | Torque lb-ft | % FLT | Performance Values | |
|---|---|---|---|---|
| Locked Rotor Torque | 130.197 | 290.0 | Start Configuration | - |
| Pull-Up Torque | 109.994 | 245.0 | Starting Current (A) | - |
| Breakdown Torque | 173.745 | 387.0 | No-Load Current (A) | - |
| Full Load | 44.8954 | 100.0 | No-Load Power Factor | - |

| % Load | Horsepower | Current, Amps | Input power, Kilowatts | Speed, RPM | Efficiency | PF |
|---|---|---|---|---|---|---|
| 0 | - | 8.37 | - | - | - | - |
| 25 | 3.75 | 9.23 | 3.28 | 1794.2 | 86.19 | 0.45 |
| 50 | 7.5 | 11.62 | 6.19 | 1788.5 | 91.29 | 0.67 |
| 75 | 11.25 | 14.7 | 9.16 | 1782.5 | 92.52 | 0.78 |
| 100 | 15.0 | 18.3 | 12.2 | 1776.1 | 92.63 | 0.84 |
| 125 | 18.75 | 22.25 | 15.31 | 1769.4 | 92.25 | 0.86 |


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