



IE3

IEC

| | |
|----------------------|----------------------------|
| MOTOR MODEL: | GR3-AL-TF-90SB35-4-B-D-1.5 |
| FACTORY TYPE: | TAX |

IE3 IEC Cast Aluminum, TEFC

| ELECTRICAL DATA | | |
|------------------------------|---------------------|-------------|
| | 60 Hz | 50 Hz |
| Horsepower | 1.5 | 1.5 |
| Speed, RPM | 1740 | 1430 |
| Voltage | 230/460 | 190/380 |
| # Phase | 3 | |
| Full Load Amps | 4.36/2.18 | 5.06/2.53 |
| Power Factor | 0.74 | - |
| Nominal Efficiency | 86.5 | - |
| 3/4 Load Efficiency | - | - |
| Service Factor | 1.15 | 1.0 |
| KVA Code | K | J |
| FL Amps. @ 208 V | 4.48 | - |
| Locked Rotor Current | - | - |
| Start Capacitor | - | |
| Start Capacitor V | - | |
| Run Capacitor | - | |
| Run Capacitor V | - | |
| Number of Leads | 9 | |
| Connection | YY/Y | |
| Coil Resistance | - | |
| | | |
| Load | Efficiency % | P.F. |
| 50% | - | - |
| 75% | - | - |
| 100% | - | - |
| | | |
| FULL LOAD TEMPERATURE RISE | | |
| FL Temp Rise °C | - | - |
| | | |
| 3D Image Link | | |
| Not available for this motor | | |

| GENERAL DATA | |
|--|-------------------------|
| Frame Size | 90SB35 |
| Frame Enclosure | TEFC |
| Mounting | B35 |
| Insulation Class | F |
| Duty | Cont. / S1 |
| NEMA Design | - |
| Frame Material | Cast Aluminum |
| Ingress Protection | 55 |
| Tropicalization | true |
| Cable Entry | 1-M20X1.5 |
| Feet Removable | true |
| Double Drilled | - |
| Paint Color | Graphite Gray |
| Paint RAL | 7024 |
| Weight lb | 33.0 |
| | |
| MECHANICAL DATA | |
| DE Bearing | 6205ZZ |
| NDE Bearing | 6205ZZ |
| dB No-Load | - |
| Rotor Wk ² , Lb-Ft ² | - |
| Comp Ring (wavy washer) | - |
| | |
| TORQUE VALUES | |
| | Torque lb-ft % FLT |
| Locked Rotor Torque | - - |
| Pull-Up Torque | - - |
| Breakdown Torque | - - |
| Full Load Torque | - - |
| | |
| SITE CONDITIONS | |
| Ambient Temp °C | 40 |
| Altitude Above Sea Level m | 1000 |



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Non Sinusoidal (VFD) Output 1.5HP, 1740 RPM

Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

| Torque Values | Torque lb-ft | % FLT | Performance Values |
|---------------------|--------------|-------|----------------------|
| Locked Rotor Torque | - | - | Start Configuration |
| Pull-Up Torque | - | - | Starting Current (A) |
| Breakdown Torque | - | - | No-Load Current (A) |
| Full Load | - | - | No-Load Power Factor |

| % Load | Horsepower | Current, Amps | Input power, Kilowatts | Speed, RPM | Efficiency | PF |
|--------|------------|---------------|------------------------|------------|------------|----|
| 0 | - | - | - | - | - | - |
| 25 | - | - | - | - | - | - |
| 50 | - | - | - | - | - | - |
| 75 | - | - | - | - | - | - |
| 100 | - | - | - | - | - | - |
| 125 | - | - | - | - | - | - |