

NEMA

| | |
|----------------------|---------------------------|
| MOTOR MODEL: | GR3-AL-TF-213JM-2-B-D-7.5 |
| FACTORY TYPE: | TXA |

Premium NEMA Cast Aluminum, TEFC

| ELECTRICAL DATA | | |
|------------------------------|--------------|-----------|
| | 60 Hz | 50 Hz |
| Horsepower | 7.5 | 7.5 |
| Speed, RPM | 3520 | 2910 |
| Voltage | 230/460 | 190/380 |
| # Phase | 3 | |
| Full Load Amps | 17.0/8.48 | 19.9/9.95 |
| Power Factor | 0.91 | - |
| Nominal Efficiency | 89.5 | 88.5 |
| 3/4 Load Efficiency | - | - |
| Service Factor | 1.25 | 1.0 |
| KVA Code | K | H |
| FL Amps. @ 208 V | 18.7 | - |
| Locked Rotor Current | 188.462 | - |
| Start Capacitor | - | |
| Start Capacitor V | - | |
| Run Capacitor | - | |
| Run Capacitor V | - | |
| Number of Leads | 9 | |
| Connection | YY/Y | |
| Coil Resistance | - | |
| Date Code | - | |
| | | |
| Load | Efficiency % | P.F. |
| 50% | 88.01 | 0.79 |
| 75% | 90.04 | 0.86 |
| 100% | 90.54 | 0.89 |
| | | |
| FULL LOAD TEMPERATURE RISE | | |
| FL Temp Rise °C | 34.9 | 43.3 |
| | | |
| 3D Image Link | | |
| Not available for this motor | | |

| GENERAL DATA | | | |
|--|---------------|--------------|-------|
| Frame Size | 213JM | | |
| Frame Enclosure | TEFC | | |
| Mounting | Rigid | | |
| Insulation Class | F | | |
| Duty | Cont. / S1 | | |
| NEMA Design | A | | |
| Frame Material | Cast Aluminum | | |
| Ingress Protection | 55 | | |
| Tropicalization | true | | |
| Cable Entry | 1-NPT 1" | | |
| Feet Removable | true | | |
| Double Drilled | - | | |
| Paint Color | Graphite Gray | | |
| Paint RAL | 7024 | | |
| Weight lb | 95.0 | | |
| | | | |
| MECHANICAL DATA | | | |
| DE Bearing | 6308ZZ | | |
| NDE Bearing | 6208ZZ | | |
| dB No-Load | - | | |
| Rotor Wk ² , Lb-Ft ² | - | | |
| Comp Ring (wavy washer) | NDE | | |
| | | | |
| TORQUE VALUES | | Torque lb-ft | % FLT |
| Locked Rotor Torque | | 38.6162 | 354.0 |
| Pull-Up Torque | | 11.5631 | 106.0 |
| Breakdown Torque | | 45.925 | 421.0 |
| Full Load Torque | | 10.9085 | 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.



Pump Motors

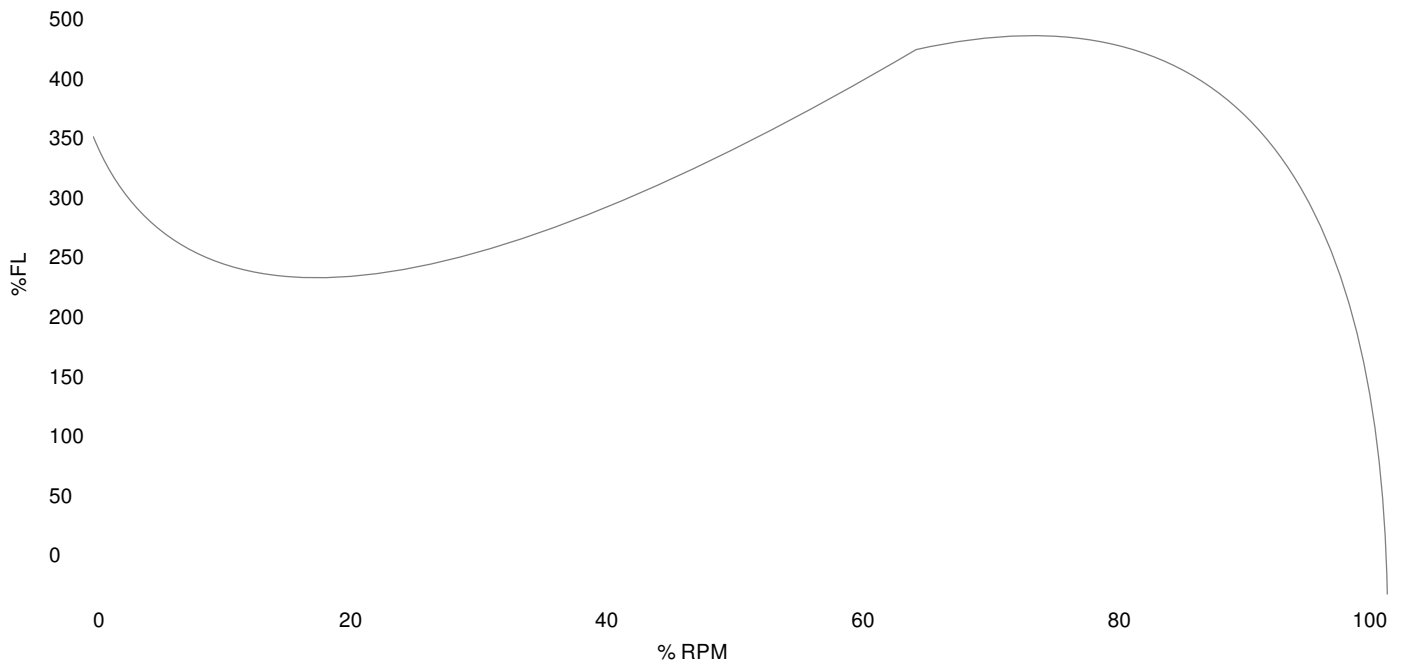
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Premium NEMA Cast Aluminum, TEFC

Non Sinusoidal (VFD) Output 7.5HP, 3520 RPM

Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

| Torque Values | Torque lb-ft | % FLT | Performance Values |
|---------------------|--------------|-------|----------------------|
| Locked Rotor Torque | 38.6162 | 354.0 | Start Configuration |
| Pull-Up Torque | 11.5631 | 106.0 | Starting Current (A) |
| Breakdown Torque | 45.925 | 421.0 | No-Load Current (A) |
| Full Load | 10.9085 | 100.0 | No-Load Power Factor |

| % Load | Horsepower | Current, Amps | Input power, Kilowatts | Speed, RPM | Efficiency | PF |
|--------|------------|---------------|------------------------|------------|------------|------|
| 0 | - | 5.78 | - | - | - | - |
| 25 | 1.875 | 7.16 | 1700.8 | 3584.8 | 80.84 | 0.6 |
| 50 | 3.75 | 9.98 | 3124.7 | 3571.1 | 88.01 | 0.79 |
| 75 | 5.625 | 13.32 | 4581.2 | 3556.7 | 90.04 | 0.86 |
| 100 | 7.5 | 17.04 | 6074.7 | 3541.5 | 90.54 | 0.89 |
| 125 | 9.375 | 21.03 | 7608.1 | 3525.5 | 90.36 | 0.91 |

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