



Pump Motors

NEMA

| | |
|----------------------|---------------------------|
| MOTOR MODEL: | GR3-AL-TF-213JM-4-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 | 1765 | 1460 |
| Voltage | 230/460 | 190/380 |
| # Phase | 3 | |
| Full Load Amps | 17.7/8.86 | 20.8/10.4 |
| Power Factor | 0.85 | - |
| Nominal Efficiency | 91.7 | 90.4 |
| 3/4 Load Efficiency | - | - |
| Service Factor | 1.25 | 1.0 |
| KVA Code | L | J |
| FL Amps. @ 208 V | 19.2 | - |
| 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 | - | 35.7 |
| | | |
| 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 | 113.0 | |
| | | |
| 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 | - | - |
| Pull-Up Torque | - | - |
| Breakdown Torque | - | - |
| Full Load Torque | - | 100.0 |
| | | |
| SITE CONDITIONS | | |
| Ambient Temp °C | 40 | |
| Altitude Above Sea Level m | 1000 | |



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Non Sinusoidal (VFD) Output 7.5HP, 1765 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 | - | 100.0 | No-Load Power Factor |

| % Load | Horsepower | Current, Amps | Input power, Kilowatts | Speed, RPM | Efficiency | PF |
|--------|------------|---------------|------------------------|------------|------------|----|
| 0 | - | - | - | - | - | - |
| 25 | 1.875 | - | - | - | - | - |
| 50 | 3.75 | - | - | - | - | - |
| 75 | 5.625 | - | - | - | - | - |
| 100 | 7.5 | - | - | - | - | - |
| 125 | 9.375 | - | - | - | - | - |