



# Pump Motors

# NEMA

|                      |                           |
|----------------------|---------------------------|
| <b>MOTOR MODEL:</b>  | GR3-CI-TF-326JP-4-BR-D-50 |
| <b>FACTORY TYPE:</b> | TXC                       |

## Premium NEMA Cast Iron, TEFC

| ELECTRICAL DATA              |              |         |
|------------------------------|--------------|---------|
|                              | 60 Hz        | 50 Hz   |
| Horsepower                   | 50.0         | 50.0    |
| Speed, RPM                   | 1770         | 1460    |
| Voltage                      | 230/460      | 190/380 |
| # Phase                      | 3            |         |
| Full Load Amps               | 117.95/58.98 | 136/68  |
| Power Factor                 | 0.87         | -       |
| Nominal Efficiency           | 94.5         | 91.5    |
| 3/4 Load Efficiency          | -            | -       |
| Service Factor               | 1.25         | 1.0     |
| KVA Code                     | K            | E       |
| FL Amps. @ 208 V             | 130.429      | -       |
| Locked Rotor Current         | 613.812      | -       |
| Start Capacitor              | -            |         |
| Start Capacitor V            | -            |         |
| Run Capacitor                | -            |         |
| Run Capacitor V              | -            |         |
| Number of Leads              | 12           |         |
| Connection                   | DD/D         |         |
| Coil Resistance              | -            |         |
|                              |              |         |
|                              |              |         |
|                              |              |         |
| Load                         | Efficiency % | P.F.    |
| 50%                          | 93.78        | 0.71    |
| 75%                          | 94.29        | 0.81    |
| 100%                         | 94.03        | 0.85    |
|                              |              |         |
| FULL LOAD TEMPERATURE RISE   |              |         |
| FL Temp Rise °C              | 82.0         | -       |
|                              |              |         |
| 3D Image Link                |              |         |
| Not available for this motor |              |         |

| GENERAL DATA                               |               |       |
|--|---------------|-------|
| Frame Size                                 | 326JP         |       |
| Frame Enclosure                            | TEFC          |       |
| Mounting                                   | Rigid         |       |
| Insulation Class                           | F             |       |
| Duty                                       | Cont. / S1    |       |
| NEMA Design                                | A             |       |
| Frame Material                             | Cast Iron     |       |
| Ingress Protection                         | 55            |       |
| Tropicalization                            | true          |       |
| Cable Entry                                | 1-NPT 2"      |       |
| Feet Removable                             | true          |       |
| Double Drilled                             | true          |       |
| Paint Color                                | Graphite Gray |       |
| Paint RAL                                  | 7024          |       |
| Weight lb                                  | 600.862       |       |
|  |               |       |
| MECHANICAL DATA                            |               |       |
| DE Bearing                                 | 6312C3        |       |
| NDE Bearing                                | 6312C3        |       |
| dB No-Load                                 | -             |       |
| Rotor Wk <sup>2</sup> , Lb-Ft <sup>2</sup> | -             |       |
| Comp Ring (wavy washer)                    | NDE           |       |
|  |               |       |
| TORQUE VALUES                              |               |       |
|  | Torque lb-ft  | % FLT |
| Locked Rotor Torque                        | 506.56        | 299.0 |
| Pull-Up Torque                             | 333.754       | 197.0 |
| Breakdown Torque                           | 520.113       | 307.0 |
| Full Load Torque                           | 169.418       | 100.0 |
|  |               |       |
| SITE CONDITIONS                            |               |       |
| Ambient Temp °C                            | 40            |       |
| Altitude Above Sea Level m                 | 1000          |       |



## Pump Motors

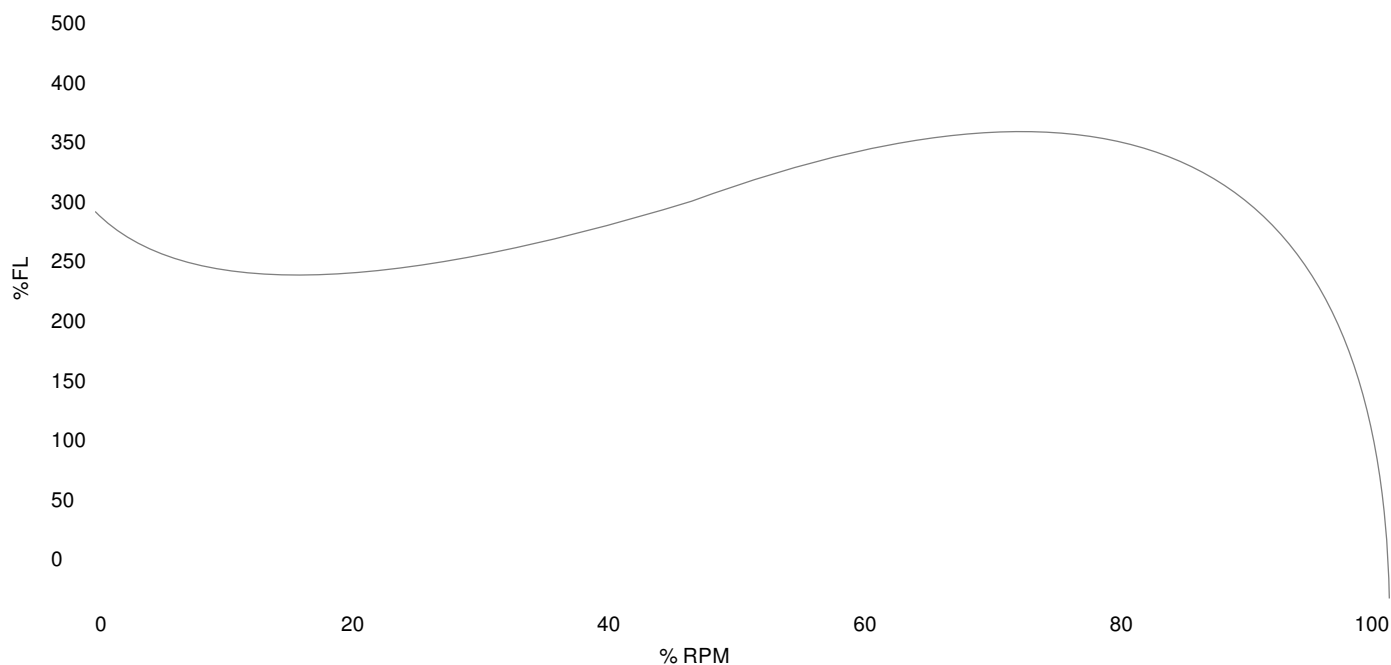
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### Premium NEMA Cast Iron, TEFC

Non Sinusoidal (VFD) Output 50.0HP, 1770 RPM

Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

| Torque Values       | Torque lb-ft | % FLT | Performance Values   |
|---------------------|--------------|-------|----------------------|
| Locked Rotor Torque | 506.56       | 299.0 | Start Configuration  |
| Pull-Up Torque      | 333.754      | 197.0 | Starting Current (A) |
| Breakdown Torque    | 520.113      | 307.0 | No-Load Current (A)  |
| Full Load           | 169.418      | 100.0 | No-Load Power Factor |

| % Load | Horsepower | Current, Amps | Input power, Kilowatts | Speed, RPM | Efficiency | PF   |
|--------|------------|---------------|------------------------|------------|------------|------|
| 0      | -          | 26.53         | -                      | -          | -          | -    |
| 25     | 12.5       | 30.25         | 11.84                  | 1795.2     | 90.58      | 0.49 |
| 50     | 25.0       | 40.19         | 22.87                  | 1790.5     | 93.78      | 0.71 |
| 75     | 37.5       | 52.63         | 34.12                  | 1785.5     | 94.29      | 0.81 |
| 100    | 50.0       | 67.01         | 45.63                  | 1780.2     | 94.03      | 0.85 |
| 125    | 62.5       | 82.79         | 57.41                  | 1774.4     | 93.41      | 0.87 |

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