



Definite Purpose

**NEMA**

|                      |                          |
|----------------------|--------------------------|
| <b>MOTOR MODEL:</b>  | PC3-CI-TF-324T-4-BR-D-40 |
| <b>FACTORY TYPE:</b> | TFC                      |

NEMA Cast Iron, TEFC

| ELECTRICAL DATA              |              |       |
|------------------------------|--------------|-------|
|                              | 60 Hz        | 50 Hz |
| Horsepower                   | 40.0         | -     |
| Speed, RPM                   | 1770         | -     |
| Voltage                      | 230          | -     |
| # Phase                      | 3            |       |
| Full Load Amps               | 97.07        | -     |
| Power Factor                 | 0.86         | -     |
| Nominal Efficiency           | 94.1         | -     |
| 3/4 Load Efficiency          | -            | -     |
| Service Factor               | 1.25         | -     |
| KVA Code                     | L            | -     |
| FL Amps. @ 208 V             | -            | -     |
| Locked Rotor Current         | 496.313      | -     |
| Start Capacitor              | -            |       |
| Start Capacitor V            | -            |       |
| Run Capacitor                | -            |       |
| Run Capacitor V              | -            |       |
| Number of Leads              | 3            |       |
| Connection                   | DD/D         |       |
| Coil Resistance              | -            |       |
| Date Code                    | -            |       |
|                              |              |       |
| Load                         | Efficiency % | P.F.  |
| 50%                          | 93.22        | 0.73  |
| 75%                          | 93.77        | 0.82  |
| 100%                         | 93.48        | 0.86  |
|                              |              |       |
| FULL LOAD TEMPERATURE RISE   |              |       |
| FL Temp Rise °C              | 78.0         | -     |
|                              |              |       |
| 3D Image Link                |              |       |
| Not available for this motor |              |       |

| GENERAL DATA                               |               |       |
|--|---------------|-------|
| Frame Size                                 | 324T          |       |
| 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                             | -             |       |
| Paint Color                                | Graphite Gray |       |
| Paint RAL                                  | 7024          |       |
| Weight lb                                  | 539.122       |       |
|  |               |       |
| 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)                    | DE            |       |
|  |               |       |
| TORQUE VALUES                              | Torque lb-ft  | % FLT |
| Locked Rotor Torque                        | 430.673       | 317.0 |
| Pull-Up Torque                             | 249.98        | 184.0 |
| Breakdown Torque                           | 400.784       | 295.0 |
| Full Load Torque                           | 135.859       | 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 Techttop for more info.



Definite Purpose

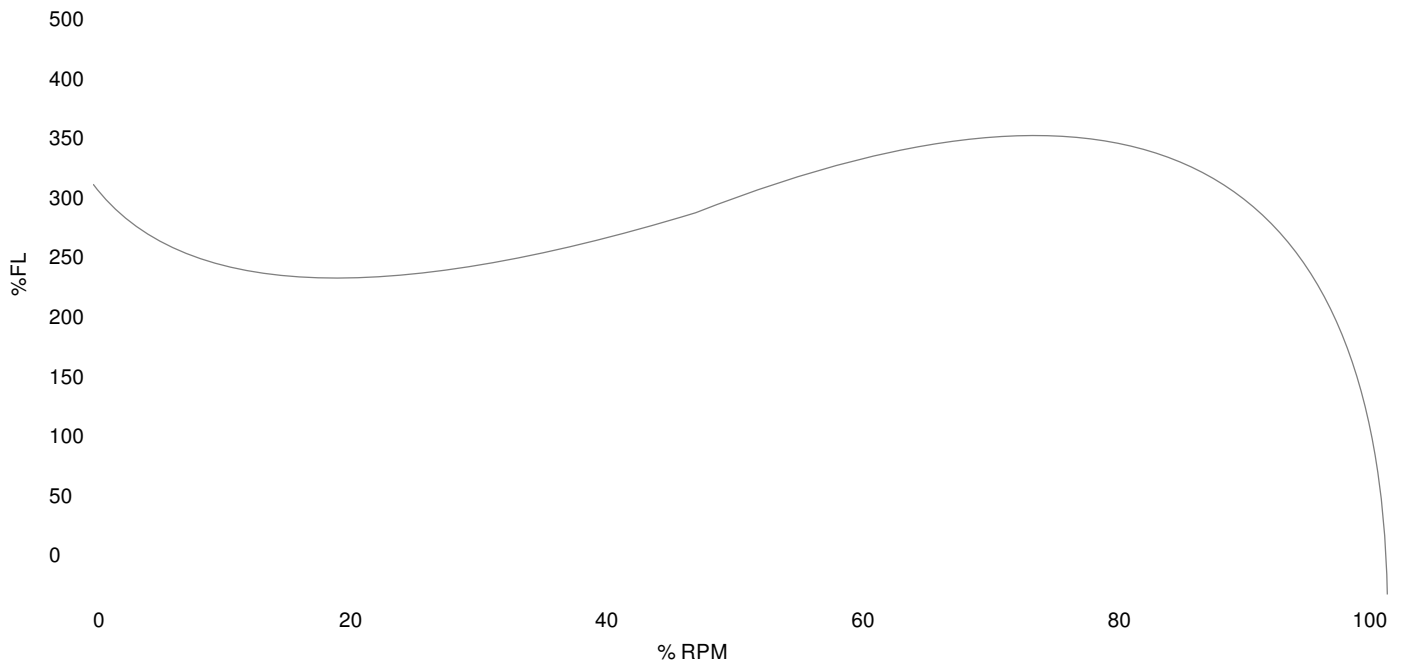
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**NEMA Cast Iron, TEFC**

Non Sinusoidal (VFD) Output 40.0HP, 1770 RPM

Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

| Torque Values       | Torque lb-ft | % FLT | Performance Values   |
|---------------------|--------------|-------|----------------------|
| Locked Rotor Torque | 430.673      | 317.0 | Start Configuration  |
| Pull-Up Torque      | 249.98       | 184.0 | Starting Current (A) |
| Breakdown Torque    | 400.784      | 295.0 | No-Load Current (A)  |
| Full Load           | 135.859      | 100.0 | No-Load Power Factor |

| % Load | Horsepower | Current, Amps | Input power, Kilowatts | Speed, RPM | Efficiency | PF   |
|--------|------------|---------------|------------------------|------------|------------|------|
| 0      | -          | 20.61         | -                      | -          | -          | -    |
| 25     | 10.0       | 23.81         | 9.61                   | 1795.1     | 89.75      | 0.51 |
| 50     | 20.0       | 31.86         | 18.5                   | 1790.4     | 93.22      | 0.73 |
| 75     | 30.0       | 42.04         | 27.59                  | 1785.3     | 93.77      | 0.82 |
| 100    | 40.0       | 53.83         | 36.91                  | 1779.7     | 93.48      | 0.86 |
| 125    | 50.0       | 66.72         | 46.47                  | 1773.8     | 92.81      | 0.87 |

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