



Definite Purpose

# NEMA

|                      |                          |
|----------------------|--------------------------|
| <b>MOTOR MODEL:</b>  | PC3-CI-TF-284T-4-BR-D-25 |
| <b>FACTORY TYPE:</b> | TFC                      |

## NEMA Cast Iron, TEFC

| <b>ELECTRICAL DATA</b>            |              |       |
|-----------------------------------|--------------|-------|
|                                   | 60 Hz        | 50 Hz |
| Horsepower                        | 25.0         | -     |
| Speed, RPM                        | 1770         | -     |
| Voltage                           | 230          | -     |
| # Phase                           | 3            |       |
| Full Load Amps                    | 58.84        | -     |
| Power Factor                      | 0.85         | -     |
| Nominal Efficiency                | 93.6         | -     |
| 3/4 Load Efficiency               | -            | -     |
| Service Factor                    | 1.25         | -     |
| KVA Code                          | K            | -     |
| FL Amps. @ 208 V                  | -            | -     |
| LRC @ 60Hz HV                     | 269.106      | -     |
| 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%                               | 91.59        | 0.73  |
| 75%                               | 92.84        | 0.82  |
| 100%                              | 93.05        | 0.87  |
|                                   |              |       |
| <b>FULL LOAD TEMPERATURE RISE</b> |              |       |
| FL Temp Rise °C                   | 51.0         | -     |
|                                   |              |       |
| <b>3D Image Link</b>              |              |       |
| Not available for this motor      |              |       |

| <b>GENERAL DATA</b>                        |               |       |
|--|---------------|-------|
| Frame Size                                 | 284T          |       |
| 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 1-1/2"  |       |
| Feet Removable                             | true          |       |
| Double Drilled                             | -             |       |
| Paint Color                                | Graphite Gray |       |
| Paint RAL                                  | 7024          |       |
| Weight lb                                  | 366.03        |       |
|  |               |       |
| <b>MECHANICAL DATA</b>                     |               |       |
| DE Bearing                                 | 6311C3        |       |
| NDE Bearing                                | 6311C3        |       |
| dB No-Load                                 | -             |       |
| Rotor Wk <sup>2</sup> , Lb-Ft <sup>2</sup> | -             |       |
| Comp Ring (wavey washer)                   | DE            |       |
|  |               |       |
| TORQUE VALUES                              | Torque lb-ft  | % FLT |
| Locked Rotor Torque                        | 209.565       | 283.0 |
| Pull-Up Torque                             | 152.546       | 206.0 |
| Breakdown Torque                           | 259.179       | 350.0 |
| Full Load Torque                           | 74.0512       | 100.0 |
|  |               |       |
| <b>SITE CONDITIONS</b>                     |               |       |
| 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.



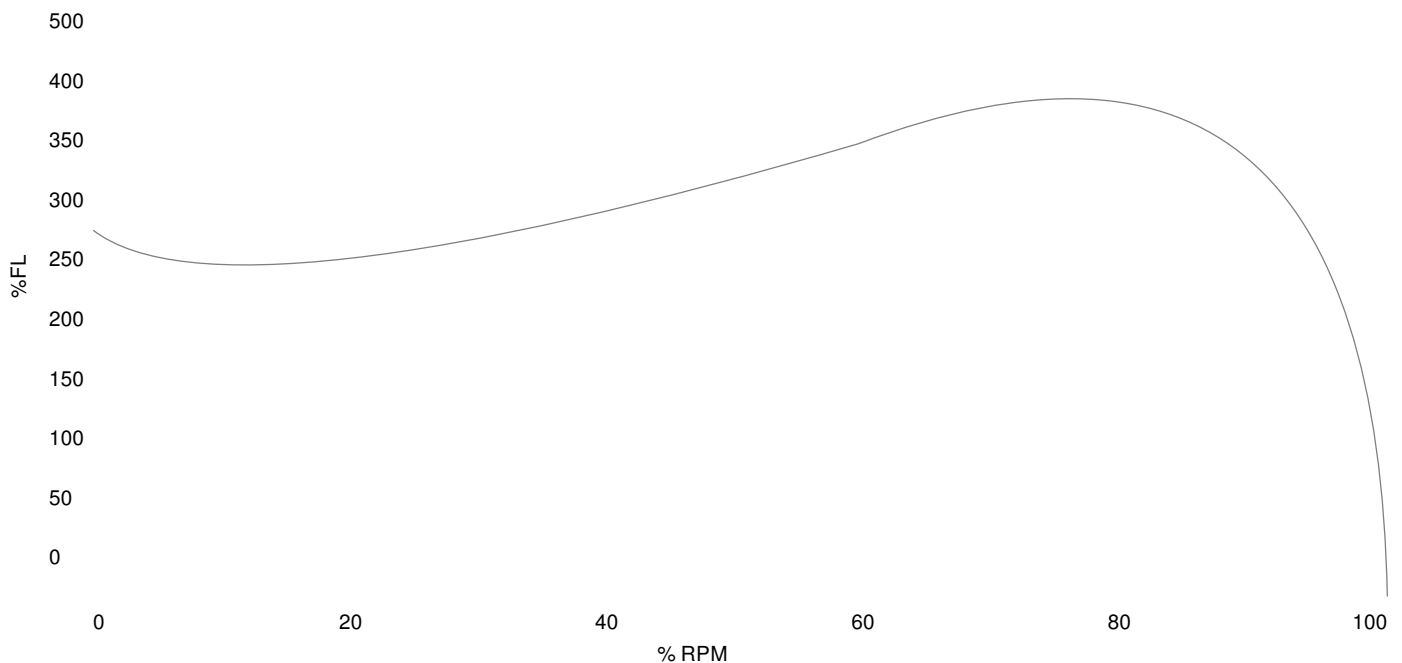
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NEMA Cast Iron, TEFC

Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

| Torque Values       | Torque lb-ft | % FLT | Performance Values   |
|---------------------|--------------|-------|----------------------|
| Locked Rotor Torque | 209.565      | 283.0 | Start Configuration  |
| Pull-Up Torque      | 152.546      | 206.0 | Starting Current (A) |
| Breakdown Torque    | 259.179      | 350.0 | No-Load Current (A)  |
| Full Load           | 74.0512      | 100.0 | No-Load Power Factor |

| % Load | Horsepower | Current, Amps | Input power, Kilowatts | Speed, RPM | Efficiency | PF   |
|--------|------------|---------------|------------------------|------------|------------|------|
| 0      | -          | 11.63         | -                      | -          | -          | -    |
| 25     | 6.25       | 11.99         | 5.36                   | 1793.7     | 86.79      | 0.56 |
| 50     | 12.5       | 17.43         | 10.15                  | 1788.3     | 91.59      | 0.73 |
| 75     | 18.75      | 22.92         | 15.03                  | 1782.5     | 92.84      | 0.82 |
| 100    | 25.0       | 28.72         | 19.99                  | 1776.1     | 93.05      | 0.87 |
| 125    | 31.25      | 35.08         | 25.06                  | 1769.2     | 92.77      | 0.9  |

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