

**NEMA**

**Model BMG0032F-TD**  
MFG PN: T182T 3U2B

# Model BMG0032F-TD

## Product Data Package



| MODEL       | HP | RPM  | VOLTAGE | PHASE | Hz | FRAME | MOUNT          | ENCLOSURE |
|-------------|----|------|---------|-------|----|-------|----------------|-----------|
| BMG0032F-TD | 3  | 3515 | 575     | 3     | 60 | 182TD | Rigid/D-Flange | TEFC      |

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| ELECTRICAL DATA                     |       |                            |
|-------------------------------------|-------|----------------------------|
| Rated Motor Output Power            | 3     | HP                         |
|                                     | -     | kW                         |
| Rated Motor Speed                   | 3515  | r/min 60Hz                 |
|                                     | -     | r/min 50Hz                 |
| Rated Motor Voltage (+/-10%)        | 575   | V/60Hz                     |
|                                     | -     | V/50Hz                     |
| Rated Motor Current                 | 2.87  | A (I <sub>n</sub> ) @ 60Hz |
|                                     | -     | A (I <sub>n</sub> ) @ 50Hz |
| Phase                               | 3     | Ø                          |
| Locked Rotor Current @ High Voltage | 23.92 | A (I <sub>n</sub> ) @ 60Hz |
| FI Current @ 208V                   | -     | A (I <sub>n</sub> ) @ 60Hz |
| Service Factor                      | 1.25  | @ 60Hz                     |
|                                     | -     | @ 50Hz                     |
| KVA Code                            | K     | 60Hz                       |
|                                     | -     | 50Hz                       |
| Nominal Efficiency                  | 86.5  | % @ 60Hz                   |
| Nominal Power Factor                | 0.89  | cosΦ @ 60Hz                |
| Leads (Qty, Size)                   | 3     | 16                         |
| Connection                          | Y     | -                          |
| Coil Resistance                     | -     | Ω                          |
| Start Capacitor                     | -     | µF/V                       |
| Run Capacitor                       | -     | µF/V                       |
| VFD DUTY (S.F. 1.0)                 | RATIO | Hz                         |
| Variable Torque                     | 30:1  | 2 - 60                     |
| Constant Torque                     | 15:1  | 4 - 60                     |
| FULL LOAD TEMPERATURE RISE          |       |                            |
| Full Load Temperature Rise          | 37    | °C @ 60Hz                  |
|                                     | -     | °C @ 50Hz                  |

| BRAKE DATA                    | VDC                | VAC |
|-------------------------------|--------------------|-----|
| Brake Volts / Rectifier Volts | 250                | 575 |
| Brake Model                   | REB04-014B-250-045 |     |
| Rectifier Model               | G370-RZL241-170    |     |

| GENERAL DATA                        |                  |       |
|-------------------------------------|------------------|-------|
| Frame Size                          | 182TD            |       |
| Enclosure                           | TEFC             |       |
| Mounting                            | Rigid/D-Flange   |       |
| Approximate Weight (lbs.)           | 77.9 lbs.        |       |
| Casing Material / Fan Cover         | Cast Aluminum    | Steel |
| Shaft Material                      | 1045             |       |
| NEMA Design                         | A                |       |
| Degree of Protection (IP)           | 55               |       |
| Insulation Class / Temp Rise (60Hz) | F                | B     |
| Tropicalization                     | YES              |       |
| Duty                                | Cont. / S1       |       |
| Conduit Box Location                | F1               |       |
| Feet Removable / Double Drilled     | YES              | YES   |
| Paintwork                           | 7024             |       |
|                                     | Graphite Gray    |       |
| MECHANICAL DATA                     |                  |       |
| Bearing DE Side                     | 6306 ZZ          |       |
| Bearing ODE Side                    | 6206 ZZ          |       |
| Grease Type                         | Mobil Polyrex EM |       |
| Compensation Ring (wavy washer)     | NDE              |       |
| Moment of Inertia (lb-ft²)          | -                |       |
| Sound Pressure @ 3 FT dBA           | -                |       |
| SITE CONDITIONS                     |                  |       |
| Ambient Temperature (°C)            | 40               |       |
| Meters Above Sea Level (MASL)       | 1000             |       |
| HAZARDOUS LOCATIONS                 |                  |       |
| CSA Certified                       | -                |       |
| Temperature Code                    | -                | -     |

| BRAKE TORQUE         |      |
|----------------------|------|
| Rated Torque (ft.lb) | 33.2 |
| Rated Torque (Nm)    | 45   |

**Questions? Call 1.888.286.1820**

**NEMA**

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| NAMEPLATE DATA             | 60Hz       | 50Hz |
|----------------------------|------------|------|
| Horse Power                | 3          | 3    |
| RPM                        | 3515       | -    |
| Voltage                    | 575        | -    |
| Full Load Amps             | 2.87       | -    |
| Service Factor             | 1.25       | -    |
| KVA Code                   | K          | -    |
| Full Load Amps (208V)      | -          | -    |
| Nominal Efficiency         | 86.5       | -    |
| Nominal Power Factor       | 0.89       | -    |
| Design                     | A          |      |
| Frame                      | 182TD      |      |
| Enclosure Type             | TEFC       |      |
| IP Rating                  | 55         |      |
| Duty                       | Cont. / S1 |      |
| Insulation Class           | F          |      |
| Ambient Rating             | 40         |      |
| Drive End Bearing          | 6306 ZZ    |      |
| Opposite Drive End Bearing | 6206 ZZ    |      |
| Weight (lbs)               | 77.9       |      |

**NAMEPLATE LAYOUT**

|                                                                                     |  |                   |  |                                                                        |  |
|-------------------------------------------------------------------------------------|--|-------------------|--|------------------------------------------------------------------------|--|
|  |  | <b>TECHTOP</b>    |  | INDUSTRIAL THREE PHASE MOTOR<br>INVERTER DUTY 15:1 CT 30:1 VT - 1.0 SF |  |
| MODEL                                                                               |  | 60Hz              |  | 50Hz                                                                   |  |
| HP                                                                                  |  |                   |  |                                                                        |  |
| RPM                                                                                 |  |                   |  |                                                                        |  |
| VOLT                                                                                |  |                   |  |                                                                        |  |
| FLA                                                                                 |  |                   |  |                                                                        |  |
| SF                                                                                  |  |                   |  |                                                                        |  |
| KVA CODE                                                                            |  |                   |  |                                                                        |  |
| NOM.EFF                                                                             |  |                   |  |                                                                        |  |
| EFF 75%                                                                             |  |                   |  |                                                                        |  |
| PF                                                                                  |  |                   |  |                                                                        |  |
| USABLE AT 208V                                                                      |  |                   |  |                                                                        |  |
| DESIGN                                                                              |  | MFG PN            |  | MFG DATE                                                               |  |
| FRAME                                                                               |  | SER #             |  |                                                                        |  |
| ENCL / IP                                                                           |  | TEFC              |  | 55                                                                     |  |
| DUTY                                                                                |  | INS CL            |  |                                                                        |  |
| AMB                                                                                 |  | DE                |  |                                                                        |  |
| ODE                                                                                 |  | WEIGHT            |  | lbs                                                                    |  |
| NEMA Premium                                                                        |  | TECHTOPCANADA.COM |  | MADE IN CHINA                                                          |  |
| BRAKE: NM                                                                           |  | FT-LBS            |  | VOLTS: VAC                                                             |  |
|                                                                                     |  | VDC               |  |                                                                        |  |

| VFD DUTY (S.F. 1.0) | RATIO | Hz*    |
|---------------------|-------|--------|
| Variable Torque     | 30:1  | 2 - 60 |
| Constant Torque     | 15:1  | 4 - 60 |

\*For max speed please contact Techtop Canada

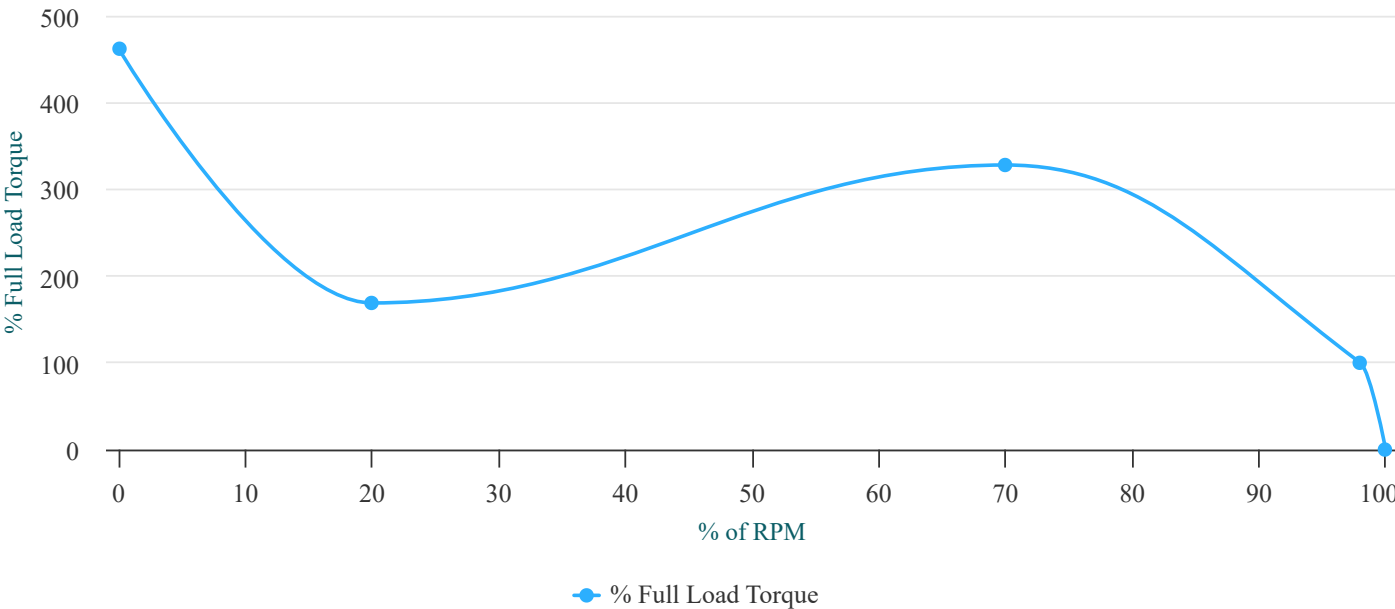
| DC BRAKE DATA             |     |      |
|---------------------------|-----|------|
| Brake Torque (Nm / ft.lb) | 45  | 33.2 |
| Brake Volts (VDC / VAC)   | 250 | 575  |

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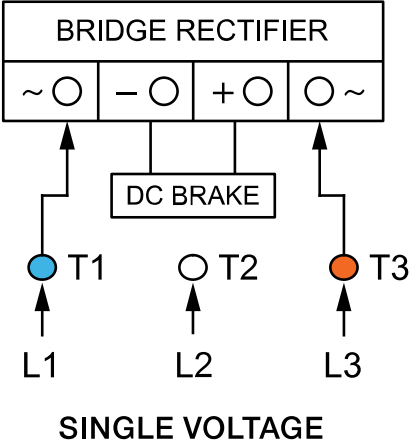
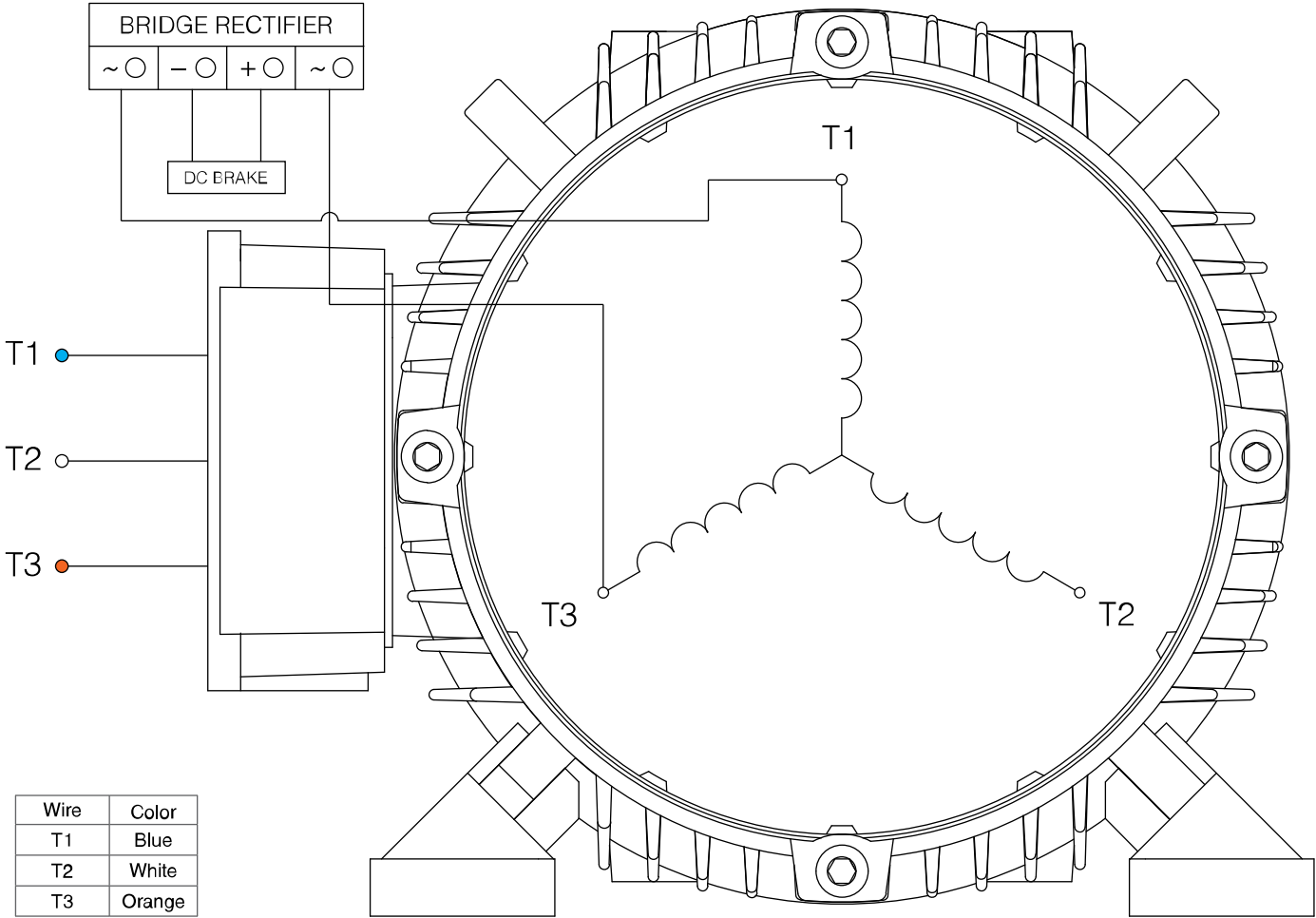
**Torque Speed (T-n) Curve**



| PERFORMANCE LOAD VALUES, HIGH VOLTAGE, 60Hz |                |                      | TYPICAL PERFORMANCE - NOT GUARANTEED VALUES |       |
|---------------------------------------------|----------------|----------------------|---------------------------------------------|-------|
| TORQUE VALUES                               | TORQUE (lb-ft) | TORQUE (% FULL LOAD) | PERFORMANCE VALUES                          |       |
| Locked Rotor Torque                         | 4.5            | 462                  | Start Configuration                         | DOL   |
| Pull-Up Torque                              | 7.6            | 169                  | Starting Current (A)                        | 23.92 |
| Breakdown Torque                            | 14.7           | 328                  | No-Load Current (A)                         | 1     |
| Full Load Torque                            | 20.7           | 100                  | No-Load Power Factor                        | 0.14  |

| % OF RATED LOAD     | 25   | 50   | 75   | 100  | 125  | S.F. 1.25 |
|---------------------|------|------|------|------|------|-----------|
| Line Amperes (A)    | 1.2  | 1.7  | 2.2  | 2.8  | 3.5  | 3.5       |
| Efficiency (%)      | 78.2 | 85.6 | 87.3 | 87.4 | 86.6 | 86.6      |
| Speed (r/min)       | 3579 | 3560 | 3539 | 3510 | 3491 | 3491      |
| Power Factor (cosΦ) | 0.59 | 0.78 | 0.86 | 0.9  | 0.91 | 0.91      |
| Input Power (kW)    | 0.7  | 1.29 | 1.89 | 2.52 | 3.18 | 3.18      |

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- NOTES:
- 1. CCW ROTATION FACING ODE FOR CONNECTIONS SHOWN
  - 2. TO REVERSE ROTATION, SWAP ANY TWO INPUT LINES
  - 3. WHEN MOTOR IS IN F1 POSITION, LEADS INDICATED WITH “\*” EXIT THE CASING ABOVE THE CENTER LINE OF THE MOTOR, THE REMAINING LEADS EXIT BELOW THE CENTER LINE
  - 4. LEADS MUST BE NUMBERED AND COLORED AS SHOWN
  - 5. DIAGRAMS FOR REFERENCE ONLY



|                     |                |
|---------------------|----------------|
| DRAWING NUMBER:     | NEMA-3-3-Y-BRK |
| CONNECTION:         | Y              |
| NUMBER OF LEADS:    | 3              |
| THERMAL PROTECTION: | Optional       |

NEMA 3Ø Y 3-Lead Single Voltage

|                              |          |
|------------------------------|----------|
| ISSUED DATE                  | 07/07/25 |
| PREMIUM T-FRAME BRAKE MOTORS |          |



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NEMA Premium TEFC 182TD

|                  |                     |                              |          |
|------------------|---------------------|------------------------------|----------|
| DRAWING NUMBER:  | GR3-AL-TF-180TD-BRK | ISSUED DATE                  | 07/07/25 |
| DIMENSIONS:      | Inches              |                              |          |
| MOUNTING:        | Rigid/D-Flange      | PREMIUM T-FRAME BRAKE MOTORS |          |
| CASING MATERIAL: | Cast Aluminum       |                              |          |