

**NEMA**

**Model DPA0402FS**  
MFG PN: TDA 286TS40U2B

# Model DPA0402FS

## Product Data Package



| MODEL     | HP | RPM  | VOLTAGE | PHASE | Hz | FRAME | MOUNT | ENCLOSURE |
|-----------|----|------|---------|-------|----|-------|-------|-----------|
| DPA0402FS | 40 | 3550 | 575     | 3     | 60 | 286TS | Rigid | ODP       |

### Toronto

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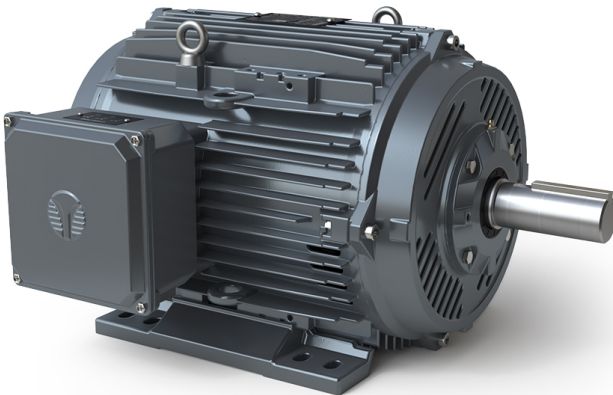
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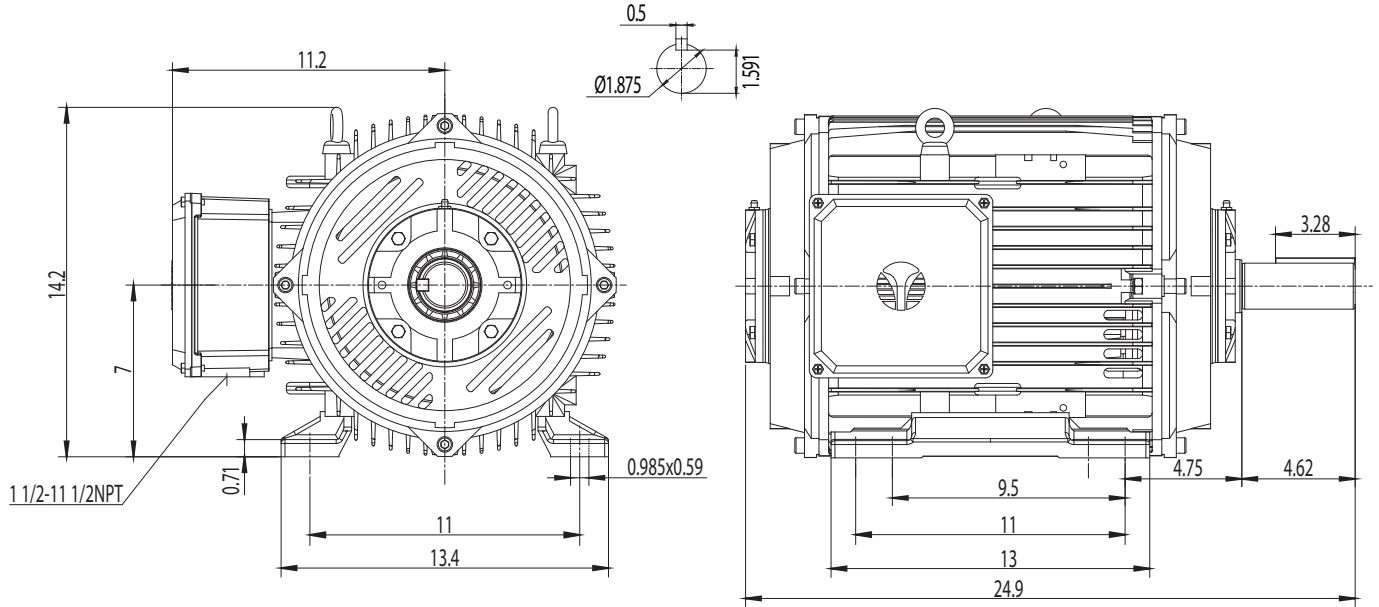
| ELECTRICAL DATA                     |       |                            |
|-------------------------------------|-------|----------------------------|
| Rated Motor Output Power            | 40    | HP                         |
|                                     | 30    | kW                         |
| Rated Motor Speed                   | 3550  | r/min 60Hz                 |
|                                     | -     | r/min 50Hz                 |
| Rated Motor Voltage (+/-10%)        | 575   | V/60Hz                     |
|                                     | -     | V/50Hz                     |
| Rated Motor Current                 | 36.85 | A (I <sub>n</sub> ) @ 60Hz |
|                                     | -     | A (I <sub>n</sub> ) @ 50Hz |
| Phase                               | 3     | Ø                          |
| Locked Rotor Current @ High Voltage | -     | A (I <sub>n</sub> ) @ 60Hz |
| FI Current @ 208V                   | -     | A (I <sub>n</sub> ) @ 60Hz |
| Service Factor                      | 1.25  | @ 60Hz                     |
|                                     | -     | @ 50Hz                     |
| KVA Code                            | J     | 60Hz                       |
|                                     | -     | 50Hz                       |
| Nominal Efficiency                  | 92.4  | % @ 60Hz                   |
| Nominal Power Factor                | 0.88  | cosΦ @ 60Hz                |
| Leads (Qty, Size)                   | 6     | 12                         |
| Connection                          | D     | -                          |
| 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          | -     | °C @ 60Hz                  |
|                                     | -     | °C @ 50Hz                  |

| GENERAL DATA                        |                  |       |
|-------------------------------------|------------------|-------|
| Frame Size                          | 286TS            |       |
| Enclosure                           | ODP              |       |
| Mounting                            | Rigid            |       |
| Approximate Weight (lbs.)           | 331 lbs.         |       |
| Casing Material / Fan Cover         | Cast Aluminum    | Steel |
| Shaft Material                      | 1045             |       |
| NEMA Design                         | B                |       |
| Degree of Protection (IP)           | 23               |       |
| 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                     | 6311 C3          |       |
| Bearing ODE Side                    | 6311 C3          |       |
| 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                    | -                | -     |

Questions? Call **1.888.286.1820**

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| NAMEPLATE DATA             | 60Hz       | 50Hz |
|----------------------------|------------|------|
| Horse Power                | 40         | -    |
| RPM                        | 3550       | -    |
| Voltage                    | 575        | -    |
| Full Load Amps             | 36.85      | -    |
| Service Factor             | 1.25       | -    |
| KVA Code                   | J          | -    |
| Full Load Amps (208V)      | -          | -    |
| Nominal Efficiency         | 92.4       | -    |
| Nominal Power Factor       | 0.88       | -    |
| Design                     | B          |      |
| Frame                      | 286TS      |      |
| Enclosure Type             | ODP        |      |
| IP Rating                  | 23         |      |
| Duty                       | Cont. / S1 |      |
| Insulation Class           | F          |      |
| Ambient Rating             | 40         |      |
| Drive End Bearing          | 6311 C3    |      |
| Opposite Drive End Bearing | 6311 C3    |      |
| Weight (lbs)               | 331        |      |

**NAMEPLATE LAYOUT**

**TECHTOP** INDUSTRIAL THREE PHASE MOTOR  
 INVERTER DUTY 15:1 CT 30:1 VT - 1.0 SF

|                |      |      |           |        |
|----------------|------|------|-----------|--------|
| MODEL          |      |      | MFG PN    |        |
|                | 60Hz | 50Hz | MFG DATE  |        |
| HP             |      |      | SER #     |        |
| RPM            |      |      | DESIGN    |        |
| VOLT           |      |      | FRAME     |        |
| FLA            |      |      | ENCL / IP | ODP 23 |
| SF             |      |      | DUTY      |        |
| KVA CODE       |      |      | INS CL    |        |
| NOM.EFF        |      |      | AMB       |        |
| EFF 75%        |      |      | DE        |        |
| PF             |      |      | ODE       |        |
| USABLE AT 208V |      |      | WEIGHT    | lbs    |

**NEMA Premium**  
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MADE IN CHINA

| 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

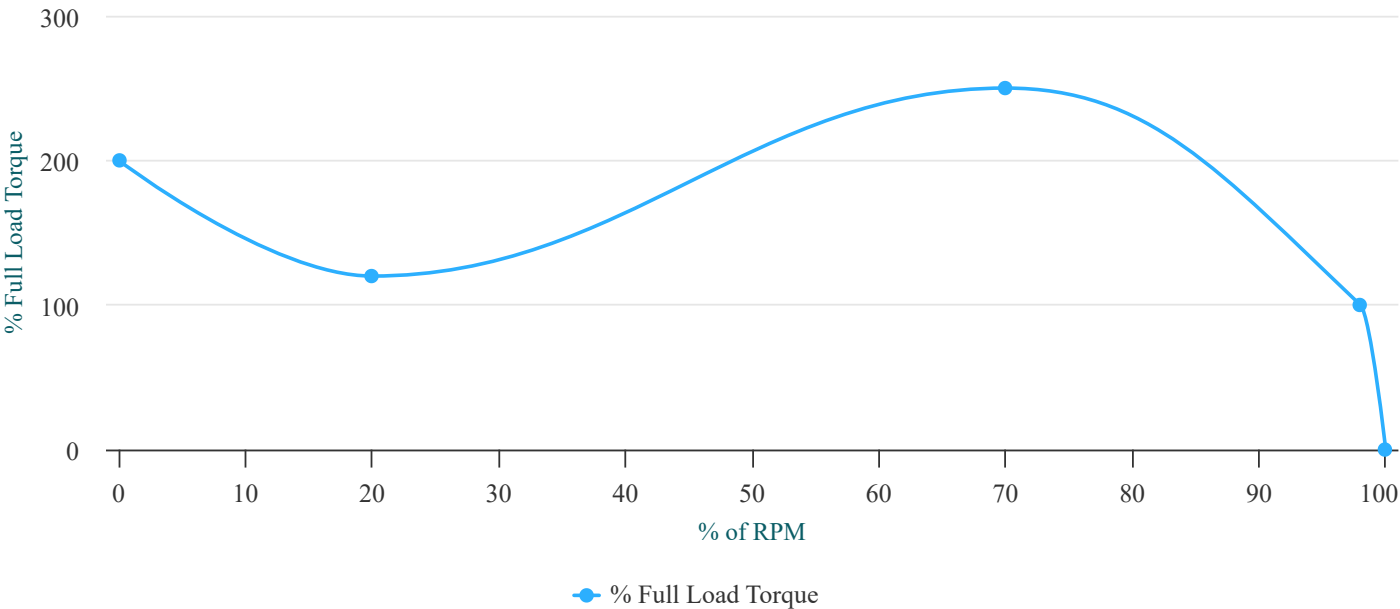
| HAZARDOUS LOCATIONS |   |
|---------------------|---|
| Class / Division    | - |
| Groups              | - |

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



**PERFORMANCE LOAD VALUES, HIGH VOLTAGE, 60Hz**

| TORQUE VALUES       | TORQUE (lb-ft) | TORQUE (% FULL LOAD) | PERFORMANCE VALUES   |     |
|---------------------|----------------|----------------------|----------------------|-----|
| Locked Rotor Torque | 59.2           | 200                  | Start Configuration  | DOL |
| Pull-Up Torque      | 71.1           | 120                  | Starting Current (A) | -   |
| Breakdown Torque    | 148            | 250                  | No-Load Current (A)  | -   |
| Full Load Torque    | 118.4          | 100                  | No-Load Power Factor | -   |

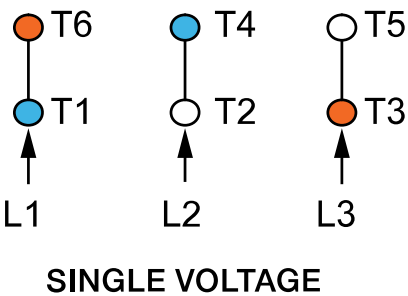
**TYPICAL PERFORMANCE - NOT GUARANTEED VALUES**

| % OF RATED LOAD     | 25 | 50 | 75 | 100 | 125 | S.F. 1.25 |
|---------------------|----|----|----|-----|-----|-----------|
| Line Amperes (A)    | -  | -  | -  | -   | -   | -         |
| Efficiency (%)      | -  | -  | -  | -   | -   | -         |
| Speed (r/min)       | -  | -  | -  | -   | -   | -         |
| Power Factor (cosΦ) | -  | -  | -  | -   | -   | -         |
| Input Power (kW)    | -  | -  | -  | -   | -   | -         |

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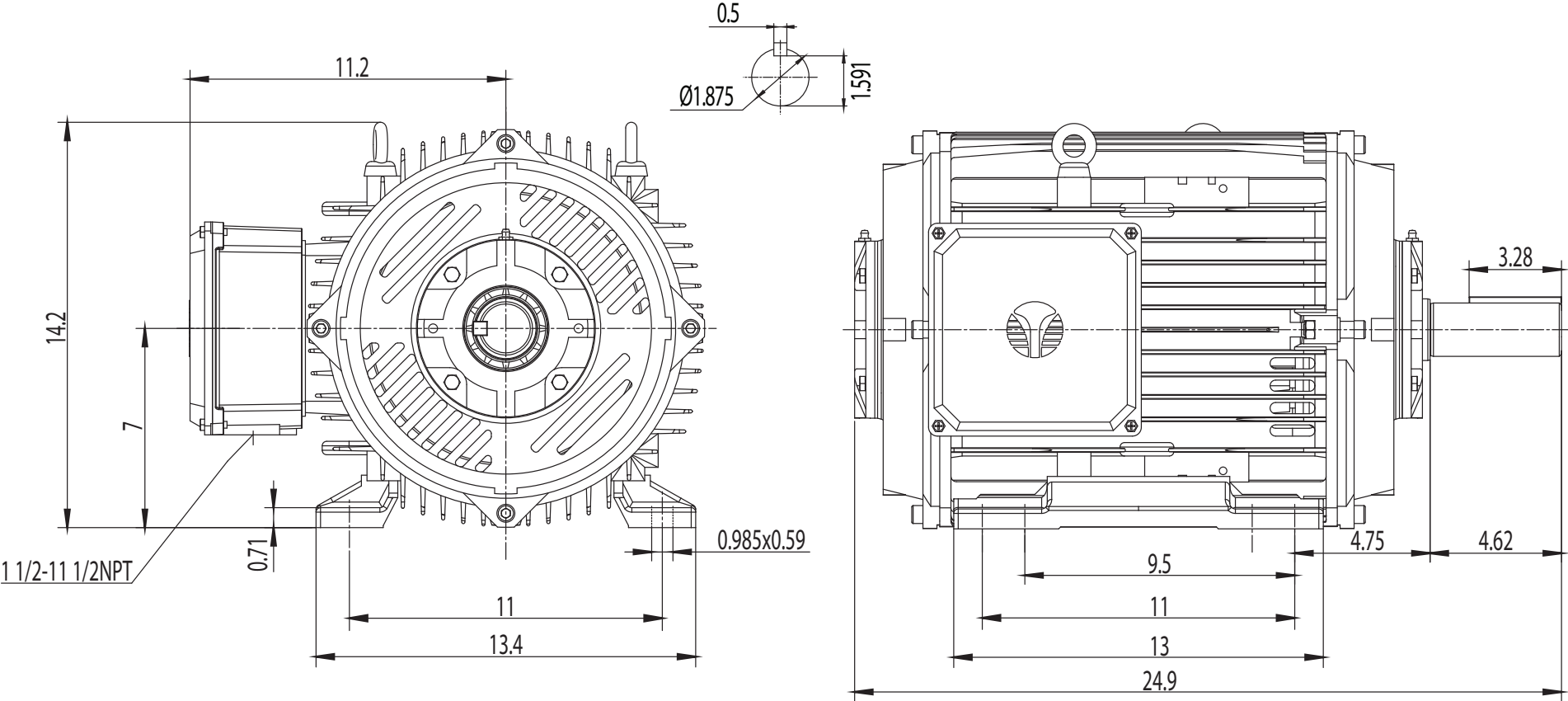
- NOTES:
- 1. CCW ROTATION FACING ODE FOR CONNECTIONS SHOWN
  - 2. TO REVERSE ROTATION, SWAP ANY TWO INPUT LINES
  - 3. WHEN MOTOR IS IN F1 POSITION, LEADS INDICATED WITH "\*" EXIT THE CASING ABOVE THE CENTER LINE OF THE MOTOR, THE REMAINING LEADS EXIT BELOW THE CENTER LINE
  - 4. LEADS MUST BE NUMBERED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



|                     |            |
|---------------------|------------|
| DRAWING NUMBER:     | NEMA-3-6-D |
| CONNECTION:         | D          |
| NUMBER OF LEADS:    | 6          |
| THERMAL PROTECTION: | -          |

NEMA 3Ø D 6-Lead Single Voltage

|                                                  |          |
|--------------------------------------------------|----------|
| ISSUED DATE                                      | 20/06/25 |
| PREMIUM T-FRAME ALUMINUM & CAST IRON MOTORS, ODP |          |



NEMA Premium ODP 286TS

|                  |                   |                                                  |          |
|------------------|-------------------|--------------------------------------------------|----------|
| DRAWING NUMBER:  | GR3-AL-DP-284(6)T | ISSUED DATE                                      | 20/06/25 |
| DIMENSIONS:      | Inches            | PREMIUM T-FRAME ALUMINUM & CAST IRON MOTORS, ODP |          |
| MOUNTING:        | Rigid             |                                                  |          |
| CASING MATERIAL: | Cast Aluminum     |                                                  |          |