

**NEMA**

**Model DPA0072DS**  
MFG PN: TDA184T7.5U2B

# Model DPA0072DS

## Product Data Package



| MODEL     | HP  | RPM  | VOLTAGE | PHASE | Hz | FRAME | MOUNT | ENCLOSURE |
|-----------|-----|------|---------|-------|----|-------|-------|-----------|
| DPA0072DS | 7.5 | 3510 | 230/460 | 3     | 60 | 184T  | Rigid | ODP       |

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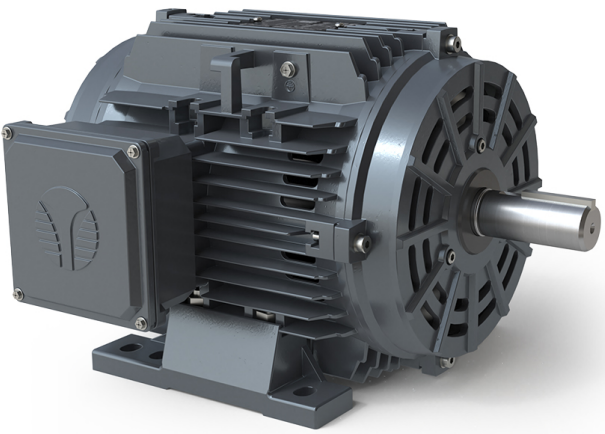
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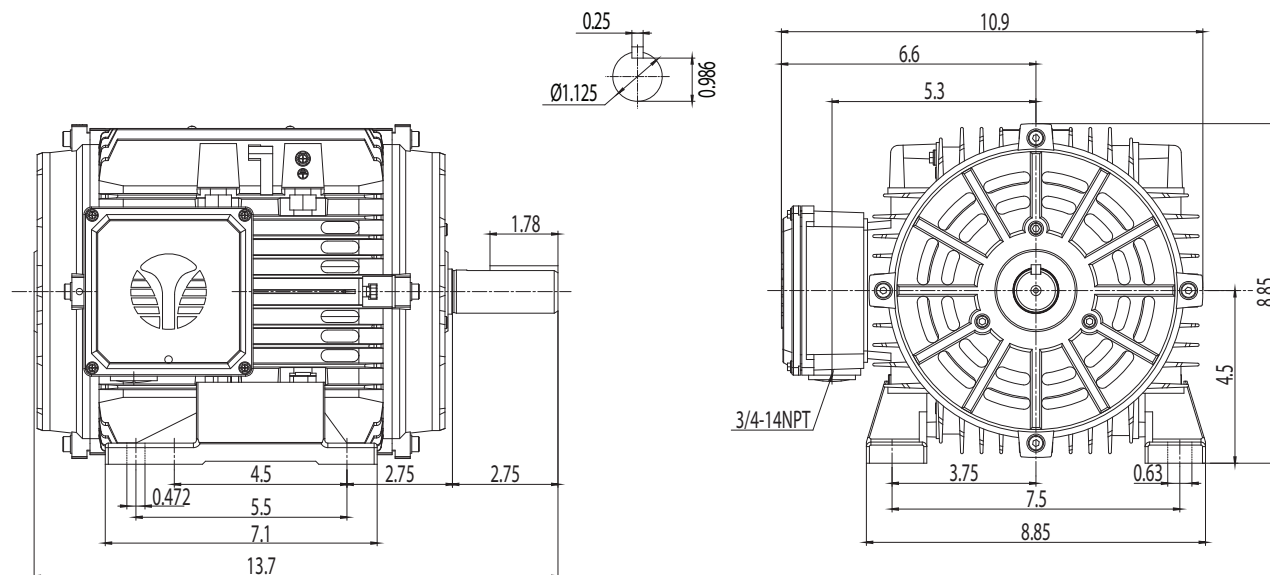
| ELECTRICAL DATA                     |           |                            |
|-------------------------------------|-----------|----------------------------|
| Rated Motor Output Power            | 7.5       | HP                         |
|                                     | 5.5       | kW                         |
| Rated Motor Speed                   | 3510      | r/min 60Hz                 |
|                                     | 2880      | r/min 50Hz                 |
| Rated Motor Voltage (+/-10%)        | 230/460   | V/60Hz                     |
|                                     | 190/380   | V/50Hz                     |
| Rated Motor Current                 | 17.5/8.76 | A (I <sub>n</sub> ) @ 60Hz |
|                                     | 21.6/10.8 | A (I <sub>n</sub> ) @ 50Hz |
| Phase                               | 3         | Ø                          |
| Locked Rotor Current @ High Voltage | -         | A (I <sub>n</sub> ) @ 60Hz |
| FI Current @ 208V                   | 19.4      | A (I <sub>n</sub> ) @ 60Hz |
| Service Factor                      | 1.25      | @ 60Hz                     |
|                                     | 1         | @ 50Hz                     |
| KVA Code                            | K         | 60Hz                       |
|                                     | G         | 50Hz                       |
| Nominal Efficiency                  | 88.5      | % @ 60Hz                   |
| Nominal Power Factor                | 0.89      | cosΦ @ 60Hz                |
| Leads (Qty, Size)                   | 9         | 16                         |
| Connection                          | YY/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          | -         | °C @ 60Hz                  |
|                                     | -         | °C @ 50Hz                  |

| GENERAL DATA                        |                  |       |
|-------------------------------------|------------------|-------|
| Frame Size                          | 184T             |       |
| Enclosure                           | ODP              |       |
| Mounting                            | Rigid            |       |
| Approximate Weight (lbs.)           | 67.1 lbs.        |       |
| Casing Material / Fan Cover         | Cast Aluminum    | Steel |
| Shaft Material                      | 1045             |       |
| NEMA Design                         | A                |       |
| 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                     | 6306 ZZ          |       |
| Bearing ODE Side                    | 6306 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                    | -                | -     |

Questions? Call **1.888.286.1820**

**NEMA**

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| NAMEPLATE DATA             | 60Hz       | 50Hz      |
|----------------------------|------------|-----------|
| Horse Power                | 7.5        | 7.5       |
| RPM                        | 3510       | 2880      |
| Voltage                    | 230/460    | 190/380   |
| Full Load Amps             | 17.5/8.76  | 21.6/10.8 |
| Service Factor             | 1.25       | 1         |
| KVA Code                   | K          | G         |
| Full Load Amps (208V)      | 19.4       | -         |
| Nominal Efficiency         | 88.5       | 86        |
| Nominal Power Factor       | 0.89       | 0.9       |
| Design                     | A          |           |
| Frame                      | 184T       |           |
| Enclosure Type             | ODP        |           |
| IP Rating                  | 23         |           |
| Duty                       | Cont. / S1 |           |
| Insulation Class           | F          |           |
| Ambient Rating             | 40         |           |
| Drive End Bearing          | 6306 ZZ    |           |
| Opposite Drive End Bearing | 6306 ZZ    |           |
| Weight (lbs)               | 67.1       |           |

#### NAMEPLATE LAYOUT

|                                    |  |                                                                        |        |
|------------------------------------|--|------------------------------------------------------------------------|--------|
| <b>TECHTOP</b>                     |  | INDUSTRIAL THREE PHASE MOTOR<br>INVERTER DUTY 15:1 CT 30:1 VT - 1.0 SF |        |
| MODEL                              |  | MFG PN                                                                 |        |
| 60Hz                               |  | 50Hz                                                                   |        |
| HP                                 |  | MFG DATE                                                               |        |
| RPM                                |  | SER #                                                                  |        |
| VOLT                               |  | DESIGN                                                                 |        |
| FLA                                |  | FRAME                                                                  |        |
| SF                                 |  | ENCL / IP                                                              | ODP 23 |
| KVA CODE                           |  | DUTY                                                                   |        |
| NOM.EFF                            |  | INS CL                                                                 |        |
| EFF 75%                            |  | AMB                                                                    |        |
| PF                                 |  | DE                                                                     |        |
| USABLE AT 208V                     |  | ODE                                                                    |        |
| NEMA Premium®<br>TECHTOPCANADA.COM |  | WEIGHT                                                                 | lbs    |
| A                                  |  | MADE IN CHINA                                                          |        |

#### VFD DUTY (S.F. 1.0)

Variable Torque  
 Constant Torque

#### RATIO

30:1  
 15:1

#### Hz\*

2 - 60  
 4 - 60

\*For max speed please contact Techtop Canada

#### HAZARDOUS LOCATIONS

Class / Division  
 Groups

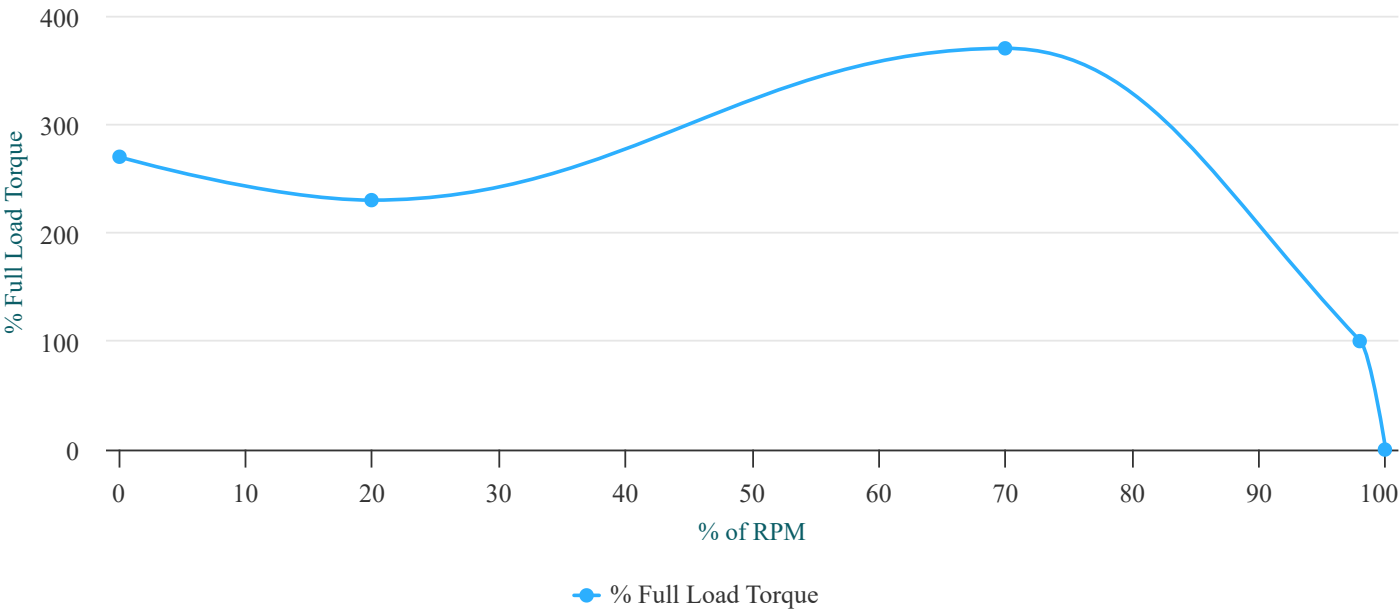
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**Torque Speed (T-n) Curve**



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

| TORQUE VALUES       | TORQUE (lb-ft) | TORQUE (% FULL LOAD) | PERFORMANCE VALUES   |     |
|---------------------|----------------|----------------------|----------------------|-----|
| Locked Rotor Torque | 11.2           | 270                  | Start Configuration  | DOL |
| Pull-Up Torque      | 25.8           | 230                  | Starting Current (A) | -   |
| Breakdown Torque    | 41.5           | 370                  | No-Load Current (A)  | -   |
| Full Load Torque    | 30.3           | 100                  | No-Load Power Factor | -   |

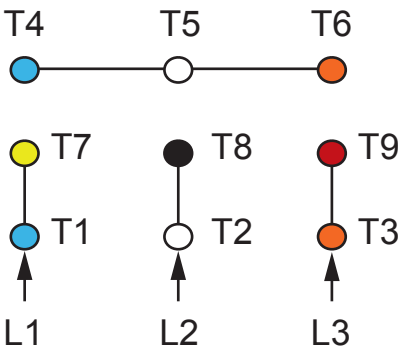
**TYPICAL PERFORMANCE - NOT GUARANTEED VALUES**

| % OF RATED LOAD     | 25 | 50   | 75   | 100  | 125 | S.F. 1.25 |
|---------------------|----|------|------|------|-----|-----------|
| Line Amperes (A)    | -  | -    | -    | -    | -   | -         |
| Efficiency (%)      | -  | 89.5 | 89.5 | 88.5 | -   | -         |
| Speed (r/min)       | -  | -    | -    | -    | -   | -         |
| Power Factor (cosΦ) | -  | 0.77 | 0.86 | 0.89 | -   | -         |
| Input Power (kW)    | -  | -    | -    | -    | -   | -         |

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HIGH VOLTAGE  
(Y)



LOW VOLTAGE  
(YY)

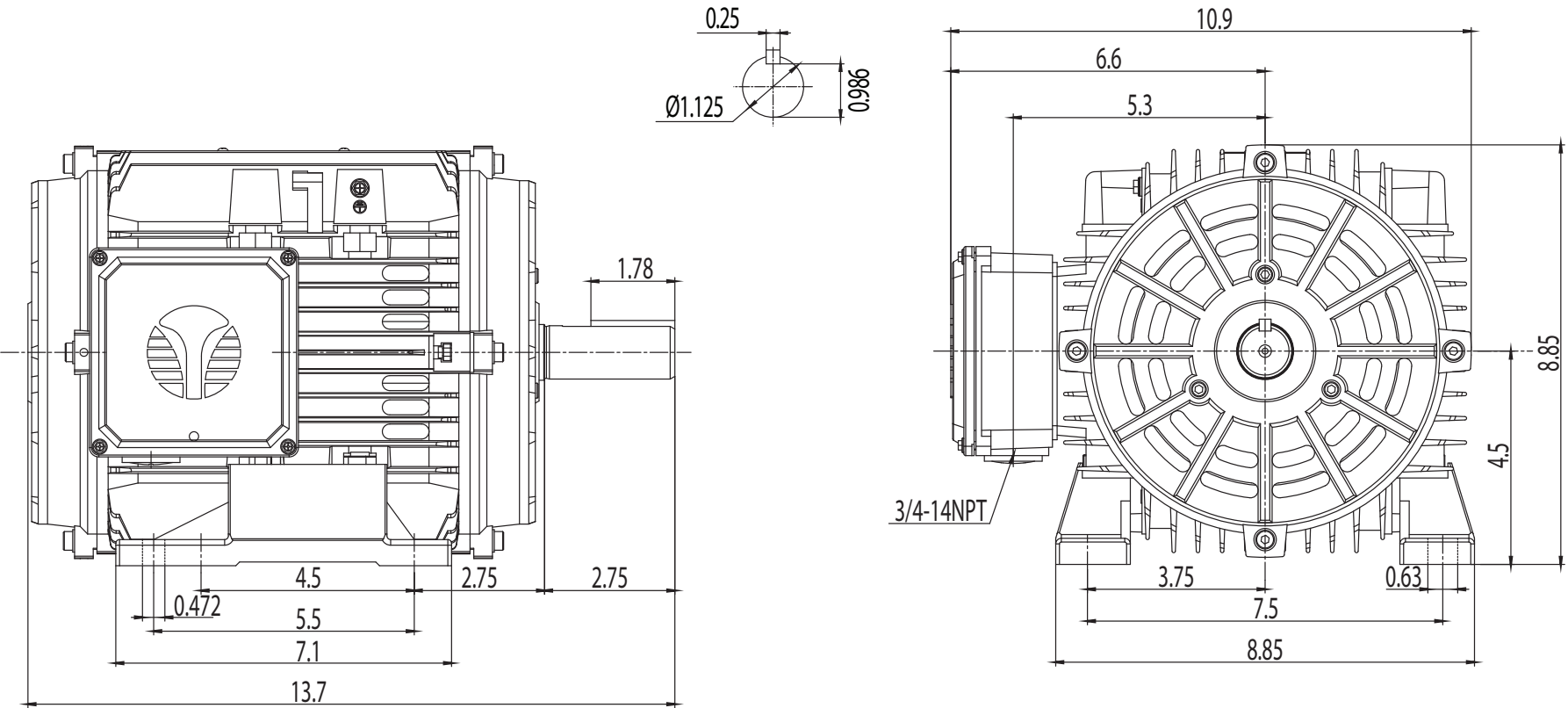
- NOTES:
- 1. CCW ROTATION FACING ODE FOR CONNECTIONS SHOWN
  - 2. TO REVERSE ROTATION, SWAP ANY TWO INPUT LINES
  - 3. WHEN MOTOR IS IN F1 POSITION, LEADS INDICATED WITH “\*” EXIT THE CASING ABOVE THE CENTER LINE OF THE MOTOR, THE REMAINING LEADS EXIT BELOW THE CENTER LINE
  - 4. LEADS MUST BE NUMBERED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



|                     |               |
|---------------------|---------------|
| DRAWING NUMBER:     | NEMA-3-9-YY-Y |
| CONNECTION:         | YY/Y          |
| NUMBER OF LEADS:    | 9             |
| THERMAL PROTECTION: | -             |

NEMA 3Ø YY/Y 9-Lead Dual Voltage

|                                                  |          |
|--------------------------------------------------|----------|
| ISSUED DATE                                      | 16/06/25 |
| PREMIUM T-FRAME ALUMINUM & CAST IRON MOTORS, ODP |          |



NEMA Premium ODP 184T

|                  |                   |                                                  |          |
|------------------|-------------------|--------------------------------------------------|----------|
| DRAWING NUMBER:  | GR3-AL-DP-182(4)T | ISSUED DATE                                      | 16/06/25 |
| DIMENSIONS:      | Inches            | PREMIUM T-FRAME ALUMINUM & CAST IRON MOTORS, ODP |          |
| MOUNTING:        | Rigid             |                                                  |          |
| CASING MATERIAL: | Cast Aluminum     |                                                  |          |