

**NEMA**

**Model BLA.254DP-C**  
MFG PN: T561/4U4B

# Model BLA.254DP-C

## Product Data Package



| MODEL       | HP   | RPM  | VOLTAGE     | PHASE | Hz | FRAME | MOUNT          | ENCLOSURE |
|-------------|------|------|-------------|-------|----|-------|----------------|-----------|
| BLA.254DP-C | 0.25 | 1750 | 208-230/460 | 3     | 60 | 56C   | Rigid/C-Flange | TEFC      |

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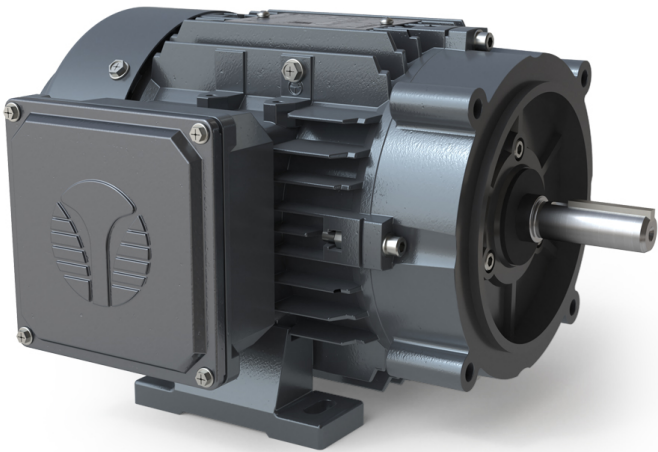
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### Index

|                               |     |
|-------------------------------|-----|
| Motor General Data Sheet      | P 2 |
| Nameplate Information         | P 3 |
| Technical Performance Data    | P 4 |
| Motor General Wiring Diagram  | P 5 |
| Motor General Outline Drawing | P 6 |

# NEMA

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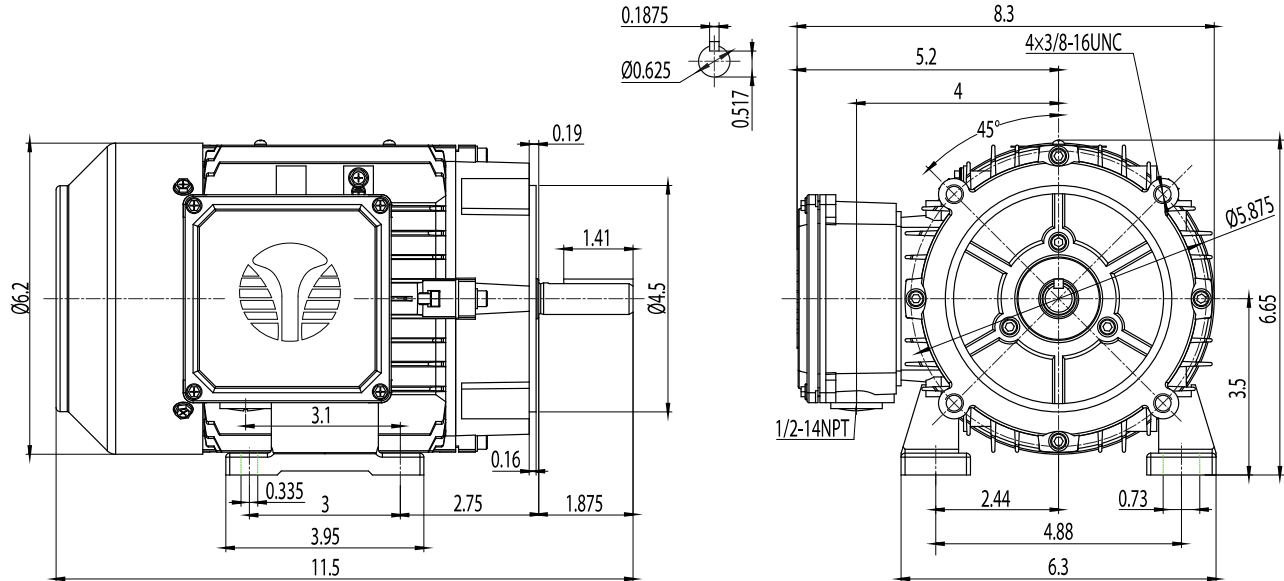
| ELECTRICAL DATA                     |               |                            |
|-------------------------------------|---------------|----------------------------|
| Rated Motor Output Power            | 0.25          | HP                         |
|                                     | -             | kW                         |
| Rated Motor Speed                   | 1750          | r/min 60Hz                 |
|                                     | 1440          | r/min 50Hz                 |
| Rated Motor Voltage (+/-10%)        | 208-230/460   | V/60Hz                     |
|                                     | 190/380       | V/50Hz                     |
| Rated Motor Current                 | 1.05-1.1/0.55 | A (I <sub>n</sub> ) @ 60Hz |
|                                     | 1.16/0.58     | A (I <sub>n</sub> ) @ 50Hz |
| Phase                               | 3             | Ø                          |
| Locked Rotor Current @ High Voltage | 2.7           | A (I <sub>n</sub> ) @ 60Hz |
| FI Current @ 208V                   | 1.05          | A (I <sub>n</sub> ) @ 60Hz |
| Service Factor                      | 1.25          | @ 60Hz                     |
|                                     | 1             | @ 50Hz                     |
| KVA Code                            | K             | 60Hz                       |
|                                     | H             | 50Hz                       |
| Nominal Efficiency                  | 70            | % @ 60Hz                   |
| Nominal Power Factor                | 0.58          | cosΦ @ 60Hz                |
| Leads (Qty, Size)                   | 9             | 18                         |
| 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          | 20.6          | °C @ 60Hz                  |
|                                     | -             | °C @ 50Hz                  |

| GENERAL DATA                        |                  |       |
|-------------------------------------|------------------|-------|
| Frame Size                          | 56C              |       |
| Enclosure                           | TEFC             |       |
| Mounting                            | Rigid/C-Flange   |       |
| Approximate Weight (lbs.)           | 14.9 lbs.        |       |
| Casing Material / Fan Cover         | Cast Aluminum    | Steel |
| Shaft Material                      | 1045             |       |
| NEMA Design                         | B                |       |
| 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              | NO    |
| Paintwork                           | 7024             |       |
|                                     | Graphite Gray    |       |
| MECHANICAL DATA                     |                  |       |
| Bearing DE Side                     | 6204 ZZ          |       |
| Bearing ODE Side                    | 6204 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                       | A, B, C & D      |       |
| Temperature Code                    | -                | -     |

**Questions? Call 1.888.286.1820**

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| NAMEPLATE DATA             | 60Hz          | 50Hz      |
|----------------------------|---------------|-----------|
| Horse Power                | 0.25          | 0.25      |
| RPM                        | 1750          | 1440      |
| Voltage                    | 208-230/460   | 190/380   |
| Full Load Amps             | 1.05-1.1/0.55 | 1.16/0.58 |
| Service Factor             | 1.25          | 1         |
| KVA Code                   | K             | H         |
| Full Load Amps (208V)      | 1.05          | -         |
| Nominal Efficiency         | 70            | 70.2      |
| Nominal Power Factor       | 0.58          | -         |
| Design                     | B             |           |
| Frame                      | 56C           |           |
| Enclosure Type             | TEFC          |           |
| IP Rating                  | 55            |           |
| Duty                       | Cont. / S1    |           |
| Insulation Class           | F             |           |
| Ambient Rating             | 40            |           |
| Drive End Bearing          | 6204 ZZ       |           |
| Opposite Drive End Bearing | 6204 ZZ       |           |
| Weight (lbs)               | 14.9          |           |

NAMEPLATE LAYOUT

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

|                |      |      |           |         |
|----------------|------|------|-----------|---------|
| MODEL          | 60Hz | 50Hz | MFG PN    |         |
| HP             |      |      | MFG DATE  |         |
| RPM            |      |      | SER #     |         |
| VOLT           |      |      | DESIGN    |         |
| FLA            |      |      | FRAME     |         |
| SF             |      |      | ENCL / IP | TEFC 55 |
| KVA CODE       |      |      | DUTY      |         |
| NOM.EFF        |      |      | INS CL    |         |
| EFF 75%        |      |      | AMB       |         |
| PF             |      |      | DE        |         |
| USABLE AT 208V |      |      | ODE       |         |
|                | A    |      | WEIGHT    | lbs     |

**NEMA Premium**  
TECHTOPCANADA.COM

CLASS 1, DIV 2, GROUPS A, B, C AND D

MADE IN CHINA

CC088A  
E323353  
SP  
C224653  
Energy Verified Only

| 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

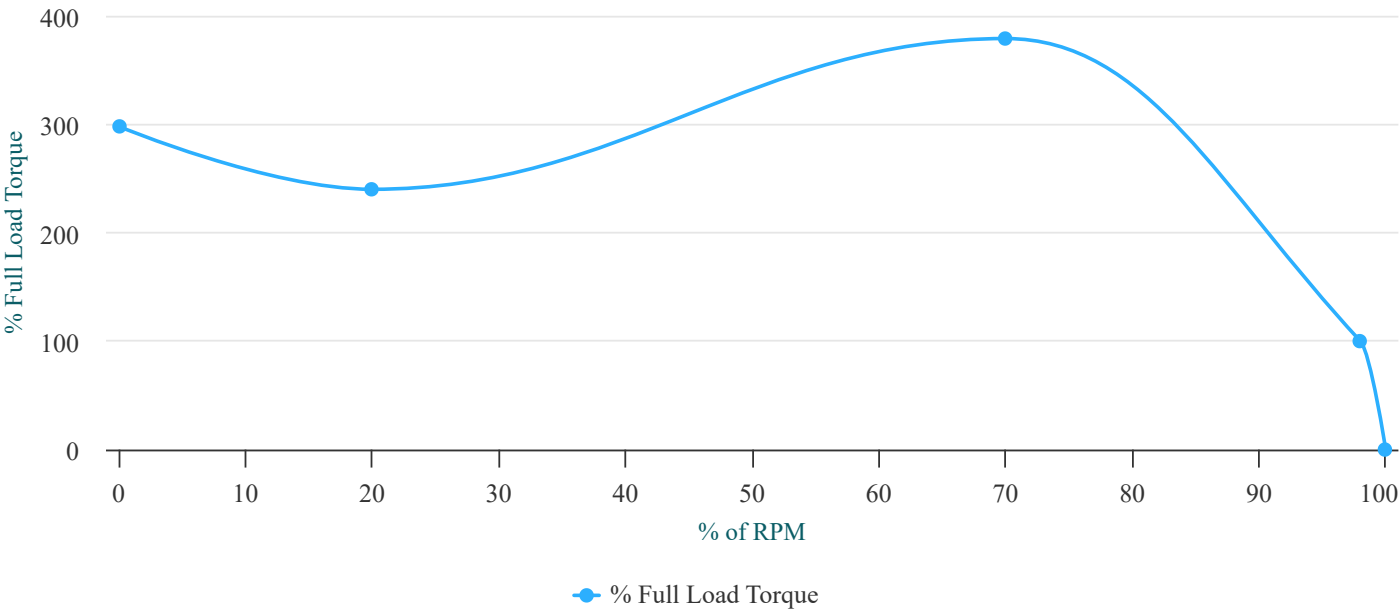
| HAZARDOUS LOCATIONS | CSA COMPLIANT   |
|---------------------|-----------------|
| Class / Division    | Class I, Div. 2 |
| Groups              | A, B, C & D     |

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**Model BLA.254DP-C**  
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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 | 2.2            | 298                  | Start Configuration  | DOL |
| Pull-Up Torque      | 1.8            | 240                  | Starting Current (A) | 2.7 |
| Breakdown Torque    | 2.8            | 379                  | No-Load Current (A)  | 0.5 |
| Full Load Torque    | 0.8            | 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)    | 0.5  | 0.5  | 0.5  | 0.5  | 0.6  | 0.6       |
| Efficiency (%)      | 43.7 | 60.1 | 67.8 | 71.8 | 73.7 | 73.7      |
| Speed (r/min)       | 1789 | 1779 | 1769 | 1757 | 1745 | 1745      |
| Power Factor (cosΦ) | 0.27 | 0.39 | 0.5  | 0.59 | 0.66 | 0.66      |
| Input Power (kW)    | 0.1  | 0.15 | 0.2  | 0.25 | 0.31 | 0.31      |

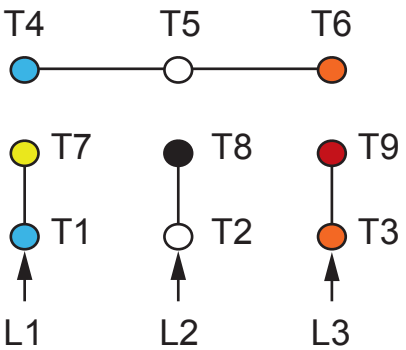
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Model **BLA.254DP-C**  
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HIGH VOLTAGE  
(Y)



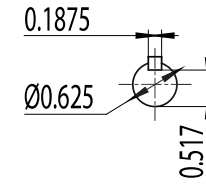
LOW VOLTAGE  
(YY)

- 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



NEMA 3Ø YY/Y 9-Lead Dual Voltage

|                     |               |                             |          |
|---------------------|---------------|-----------------------------|----------|
| DRAWING NUMBER:     | NEMA-3-9-YY-Y | ISSUED DATE                 | 08/01/25 |
| CONNECTION:         | YY/Y          | PREMIUM 56C ALUMINUM MOTORS |          |
| NUMBER OF LEADS:    | 9             |                             |          |
| THERMAL PROTECTION: | -             |                             |          |



|                  |                |                             |          |
|------------------|----------------|-----------------------------|----------|
| DRAWING NUMBER:  | GR3-AL-TF-56C  | ISSUED DATE                 | 08/01/25 |
| DIMENSIONS:      | Inches         |                             |          |
| MOUNTING:        | Rigid/C-Flange | PREMIUM 56C ALUMINUM MOTORS |          |
| CASING MATERIAL: | Cast Aluminum  |                             |          |