

**NEMA**

**Model DPC2006E-TC**  
MFG PN: TDC 449T200U6B

# Model DPC2006E-TC

## Product Data Package



| MODEL       | HP  | RPM  | VOLTAGE | PHASE | Hz | FRAME | MOUNT          | ENCLOSURE |
|-------------|-----|------|---------|-------|----|-------|----------------|-----------|
| DPC2006E-TC | 200 | 1190 | 460     | 3     | 60 | 449TC | Rigid/C-Flange | ODP       |

### Toronto

**TOLL FREE** 1.888.286.1820  
**PHONE** 905.829.1001  
**EMAIL** info@techtopcanada.com

### Montreal

**TOLL FREE** 1.844.354.5111  
**PHONE** 514.354.1002  
**EMAIL** infoQC@techtopcanada.com

### Moncton

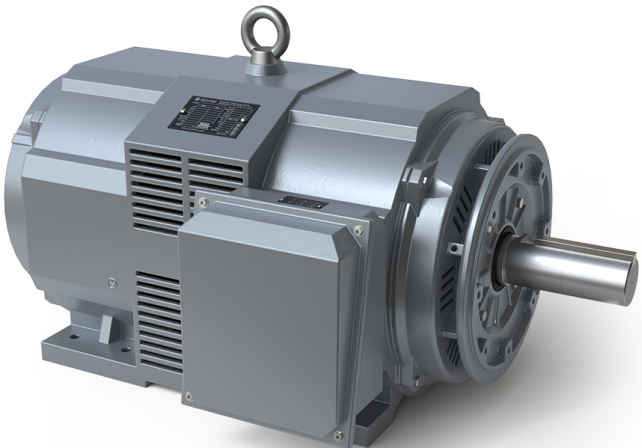
**PHONE** 506.386.5794  
**EMAIL** infoNB@techtopcanada.com

### Winnipeg

**PHONE** 204.633.2779  
**EMAIL** infoMB@techtopcanada.com

### Vancouver

**PHONE** 604.525.1551  
**EMAIL** infoBC@techtopcanada.com



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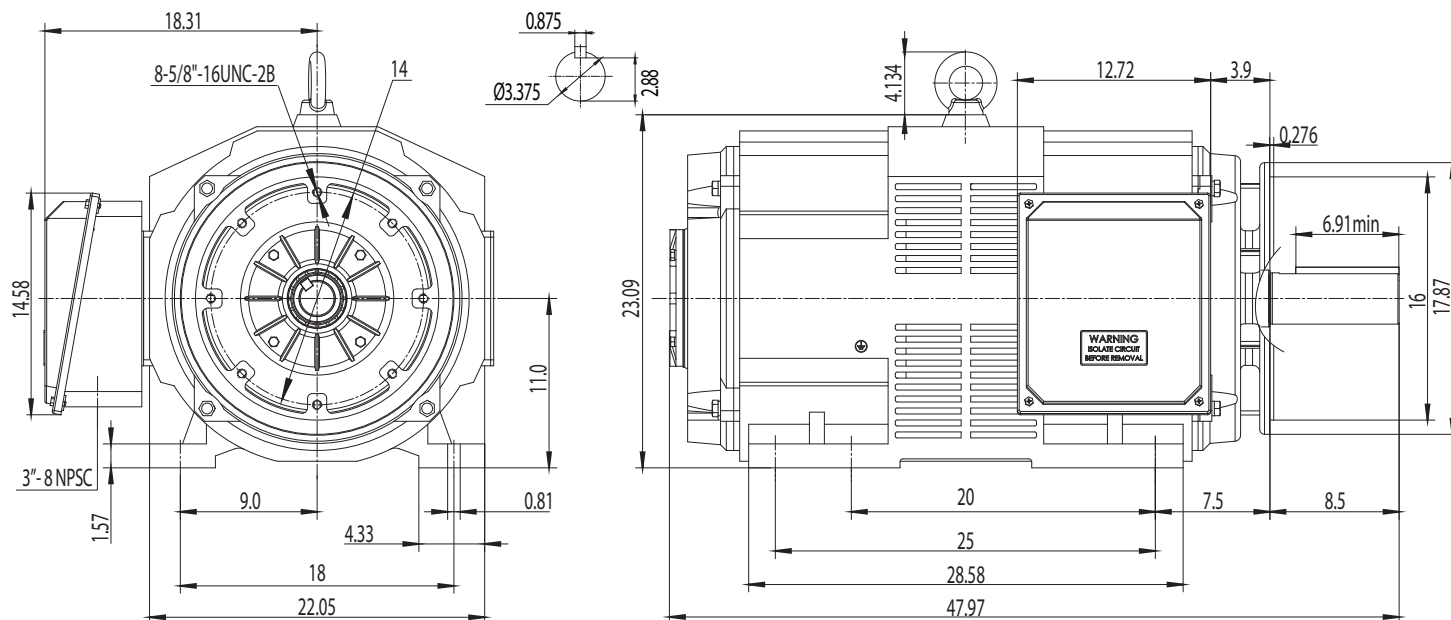
| ELECTRICAL DATA                     |        |                            |
|-------------------------------------|--------|----------------------------|
| Rated Motor Output Power            | 200    | HP                         |
|                                     | 150    | kW                         |
| Rated Motor Speed                   | 1190   | r/min 60Hz                 |
|                                     | 985    | r/min 50Hz                 |
| Rated Motor Voltage (+/-10%)        | 460    | V/60Hz                     |
|                                     | 380    | V/50Hz                     |
| Rated Motor Current                 | 233.69 | A (I <sub>n</sub> ) @ 60Hz |
|                                     | 278.05 | A (I <sub>n</sub> ) @ 50Hz |
| Phase                               | 3      | Ø                          |
| Locked Rotor Current @ High Voltage | 1868.4 | A (I <sub>n</sub> ) @ 60Hz |
| FI Current @ 208V                   | -      | A (I <sub>n</sub> ) @ 60Hz |
| Service Factor                      | 1.15   | @ 60Hz                     |
|                                     | 1      | @ 50Hz                     |
| KVA Code                            | K      | 60Hz                       |
|                                     | G      | 50Hz                       |
| Nominal Efficiency                  | 95.4   | % @ 60Hz                   |
| Nominal Power Factor                | 0.84   | cosΦ @ 60Hz                |
| Leads (Qty, Size)                   | 6      | 1                          |
| 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          | 49.4   | °C @ 60Hz                  |
|                                     | -      | °C @ 50Hz                  |

| GENERAL DATA                        |                  |     |
|-------------------------------------|------------------|-----|
| Frame Size                          | 449TC            |     |
| Enclosure                           | ODP              |     |
| Mounting                            | Rigid/C-Flange   |     |
| Approximate Weight (lbs.)           | 2205 lbs.        |     |
| Casing Material / Fan Cover         | Cast Iron        | -   |
| Shaft Material                      | 4140             |     |
| 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     | NO               | YES |
| Paintwork                           | 7024             |     |
|                                     | Graphite Gray    |     |
| MECHANICAL DATA                     |                  |     |
| Bearing DE Side                     | NU 319           |     |
| Bearing ODE Side                    | 6316 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                    | -                | -   |

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| NAMEPLATE DATA             | 60Hz       | 50Hz   |
|----------------------------|------------|--------|
| Horse Power                | 200        | 200    |
| RPM                        | 1190       | 985    |
| Voltage                    | 460        | 380    |
| Full Load Amps             | 233.69     | 278.05 |
| Service Factor             | 1.15       | 1      |
| KVA Code                   | K          | G      |
| Full Load Amps (208V)      | -          | -      |
| Nominal Efficiency         | 95.4       | 94.8   |
| Nominal Power Factor       | 0.84       | 0.86   |
| Design                     | A          |        |
| Frame                      | 449TC      |        |
| Enclosure Type             | ODP        |        |
| IP Rating                  | 23         |        |
| Duty                       | Cont. / S1 |        |
| Insulation Class           | F          |        |
| Ambient Rating             | 40         |        |
| Drive End Bearing          | NU 319     |        |
| Opposite Drive End Bearing | 6316 C3    |        |
| Weight (lbs)               | 2205       |        |

#### NAMEPLATE LAYOUT

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

| 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

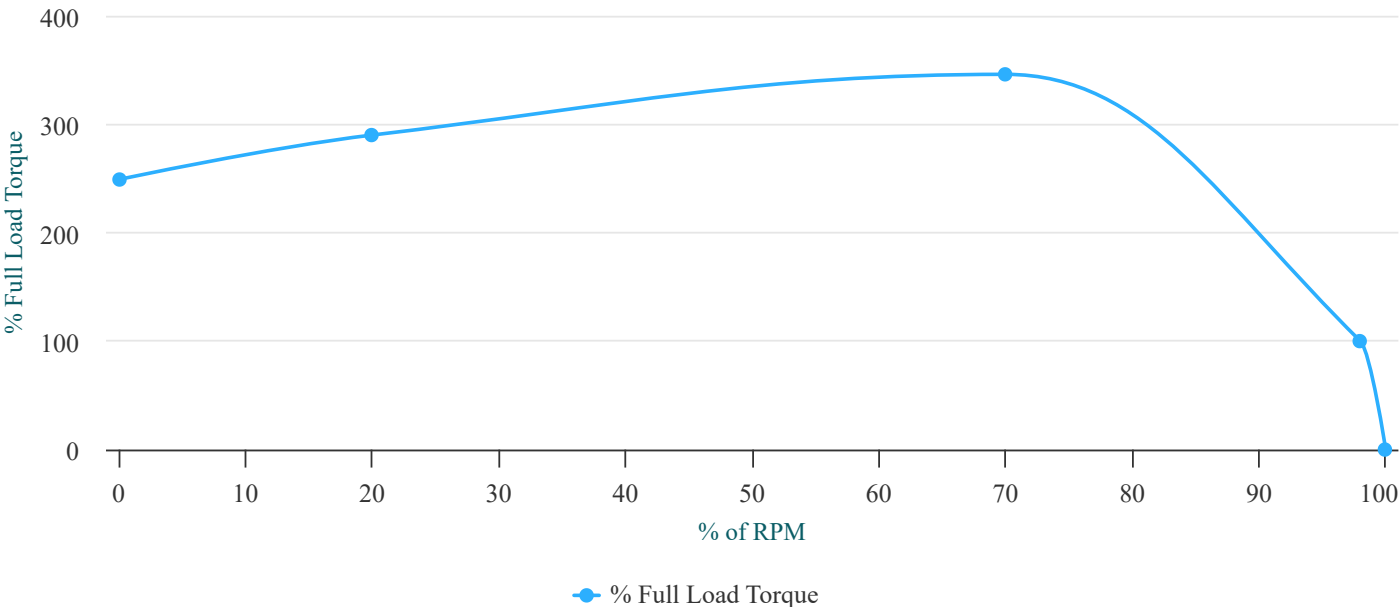
| HAZARDOUS LOCATIONS |   |
|---------------------|---|
| Class / Division    | - |
| Groups              | - |

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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 | 2198.8         | 249                  | Start Configuration  | DOL    |
| Pull-Up Torque      | 2560.9         | 290                  | Starting Current (A) | 1868.4 |
| Breakdown Torque    | 3055.4         | 346                  | No-Load Current (A)  | 83.6   |
| Full Load Torque    | 883.1          | 100                  | No-Load Power Factor | -      |

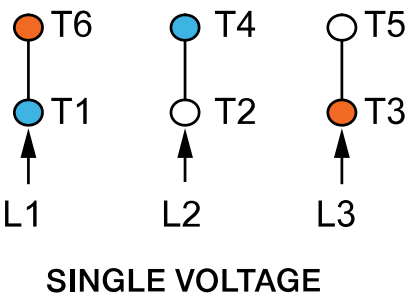
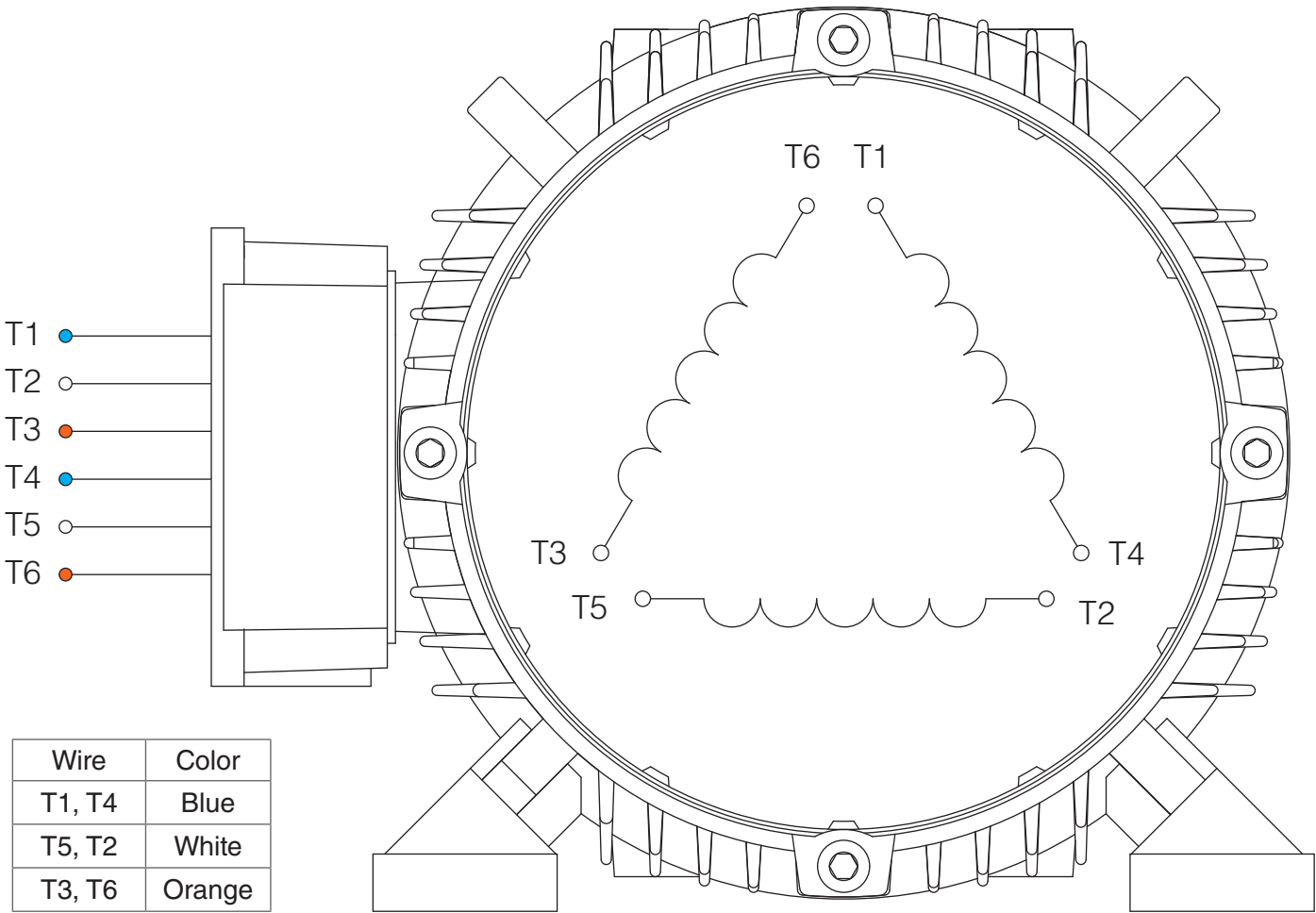
**TYPICAL PERFORMANCE - NOT GUARANTEED VALUES**

| % OF RATED LOAD     | 25    | 50    | 75     | 100    | 125    | S.F. 1.15 |
|---------------------|-------|-------|--------|--------|--------|-----------|
| Line Amperes (A)    | 98.3  | 132.4 | 174.8  | 223.5  | 254.9  | 254.9     |
| Efficiency (%)      | 92.9  | 95.4  | 95.8   | 95.6   | 95.4   | 95.4      |
| Speed (r/min)       | 1198  | 1196  | 1195   | 1193   | 1191   | 1191      |
| Power Factor (cosΦ) | 0.5   | 0.72  | 0.81   | 0.85   | 0.85   | 0.85      |
| Input Power (kW)    | 40.37 | 78.64 | 117.45 | 156.84 | 180.77 | 180.77    |

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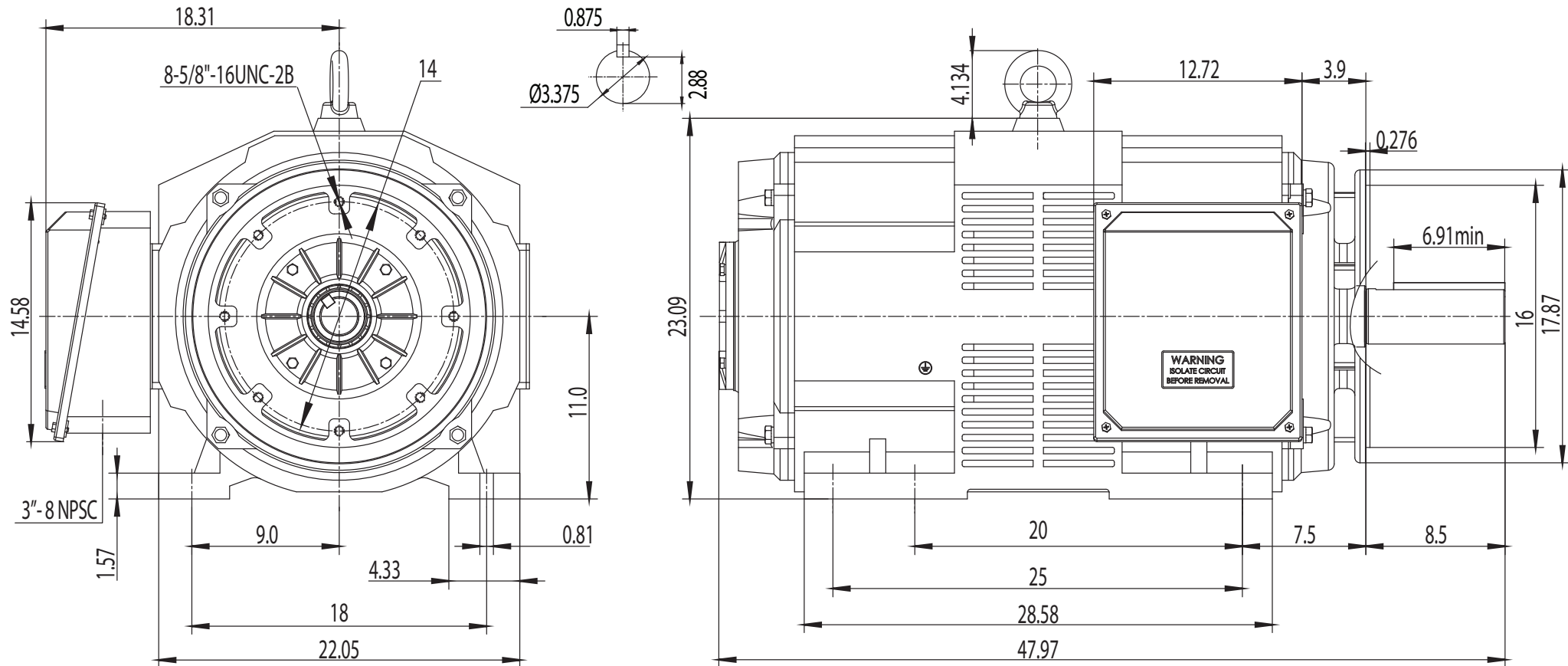
- NOTES:
- CCW ROTATION FACING ODE FOR CONNECTIONS SHOWN
  - TO REVERSE ROTATION, SWAP ANY TWO INPUT LINES
  - WHEN MOTOR IS IN F1 POSITION, LEADS INDICATED WITH “\*” EXIT THE CASING ABOVE THE CENTER LINE OF THE MOTOR, THE REMAINING LEADS EXIT BELOW THE CENTER LINE
  - LEADS MUST BE NUMBERED AND COLORED AS SHOWN
  - 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                                      | 30/06/25 |
| PREMIUM T-FRAME ALUMINUM & CAST IRON MOTORS, ODP |          |



## NEMA Premium ODP 449TC

|                  |                    |                                                  |          |
|------------------|--------------------|--------------------------------------------------|----------|
| DRAWING NUMBER:  | GR3-CI-DP-447(9)TC | ISSUED DATE                                      | 30/06/25 |
| DIMENSIONS:      | Inches             |                                                  |          |
| MOUNTING:        | Rigid/C-Flange     | PREMIUM T-FRAME ALUMINUM & CAST IRON MOTORS, ODP |          |
| CASING MATERIAL: | Cast Iron          |                                                  |          |