

**NEMA**

**Model BMG0072D-TC**  
MFG PN: T213T 7.5U2B

# Model BMG0072D-TC

## Product Data Package



| MODEL       | HP  | RPM  | VOLTAGE | PHASE | Hz | FRAME | MOUNT          | ENCLOSURE |
|-------------|-----|------|---------|-------|----|-------|----------------|-----------|
| BMG0072D-TC | 7.5 | 3520 | 230/460 | 3     | 60 | 213TC | Rigid/C-Flange | TEFC      |

### Toronto

TOLL FREE 1.888.286.1820  
PHONE 905.829.1001  
EMAIL [info@techtopcanada.com](mailto:info@techtopcanada.com)

### Montreal

TOLL FREE 1.844.354.5111  
PHONE 514.354.1002  
EMAIL [infoQC@techtopcanada.com](mailto:infoQC@techtopcanada.com)

### Moncton

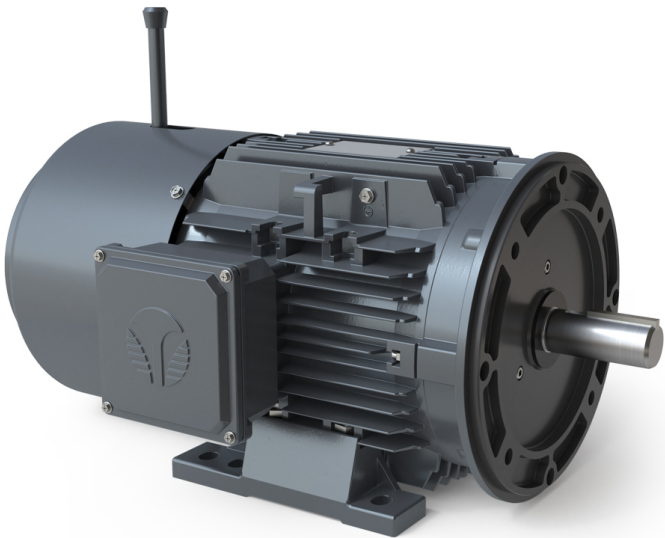
PHONE 506.386.5794  
EMAIL [infoNB@techtopcanada.com](mailto:infoNB@techtopcanada.com)

### Winnipeg

PHONE 204.633.2779  
EMAIL [infoMB@techtopcanada.com](mailto:infoMB@techtopcanada.com)

### Vancouver

PHONE 604.525.1551  
EMAIL [infoBC@techtopcanada.com](mailto:infoBC@techtopcanada.com)



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| ELECTRICAL DATA                     |           |                            |
|-------------------------------------|-----------|----------------------------|
| Rated Motor Output Power            | 7.5       | HP                         |
|                                     | -         | kW                         |
| Rated Motor Speed                   | 3520      | r/min 60Hz                 |
|                                     | 2910      | r/min 50Hz                 |
| Rated Motor Voltage (+/-10%)        | 230/460   | V/60Hz                     |
|                                     | 190/380   | V/50Hz                     |
| Rated Motor Current                 | 17.0/8.48 | A (I <sub>n</sub> ) @ 60Hz |
|                                     | 19.9/9.95 | A (I <sub>n</sub> ) @ 50Hz |
| Phase                               | 3         | Ø                          |
| Locked Rotor Current @ High Voltage | 88.9      | A (I <sub>n</sub> ) @ 60Hz |
| FI Current @ 208V                   | 18.7      | A (I <sub>n</sub> ) @ 60Hz |
| Service Factor                      | 1.25      | @ 60Hz                     |
|                                     | 1         | @ 50Hz                     |
| KVA Code                            | K         | 60Hz                       |
|                                     | H         | 50Hz                       |
| Nominal Efficiency                  | 89.5      | % @ 60Hz                   |
| Nominal Power Factor                | 0.91      | cosΦ @ 60Hz                |
| Leads (Qty, Size)                   | 9         | 14                         |
| 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          | 34.9      | °C @ 60Hz                  |
|                                     | 43.3      | °C @ 50Hz                  |

| BRAKE DATA                    | VDC                | VAC |
|-------------------------------|--------------------|-----|
| Brake Volts / Rectifier Volts | 205                | 230 |
| Brake Model                   | REB04-016B-205-060 |     |
| Rectifier Model               | RZL141-170H        |     |

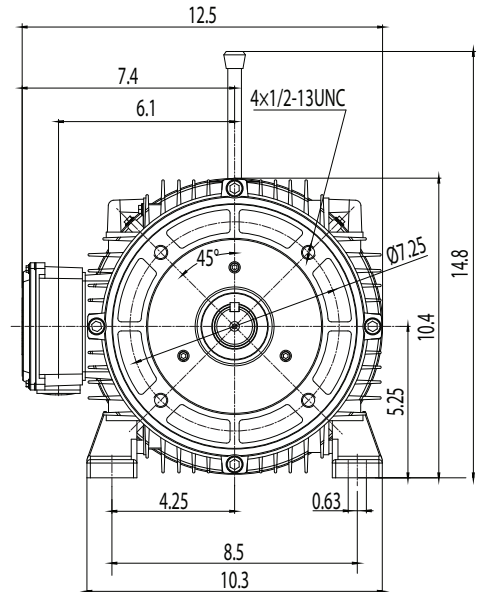
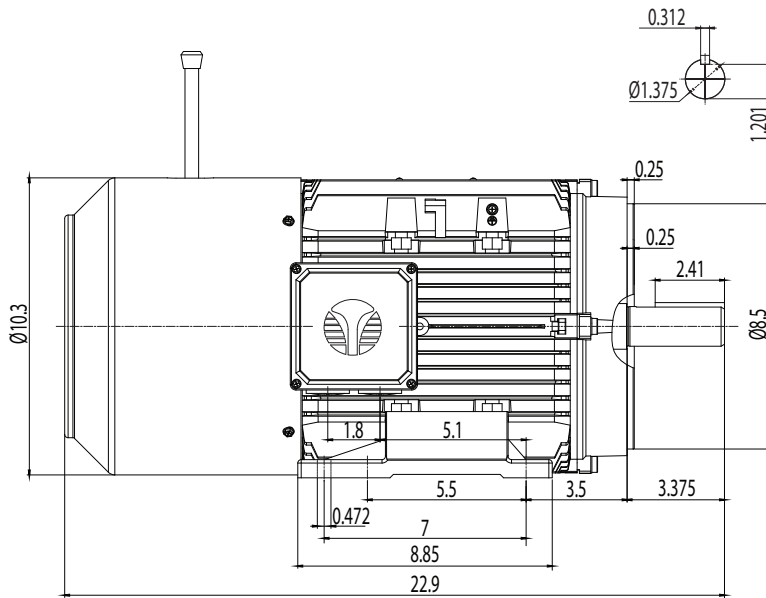
| GENERAL DATA                        |                  |       |
|-------------------------------------|------------------|-------|
| Frame Size                          | 213TC            |       |
| Enclosure                           | TEFC             |       |
| Mounting                            | Rigid/C-Flange   |       |
| Approximate Weight (lbs.)           | 136 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                     | 6308 ZZ          |       |
| Bearing ODE Side                    | 6208 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) | 44.3 |
| Rated Torque (Nm)    | 60   |

**Questions? Call 1.888.286.1820**

**NEMA**

**Model BMG0072D-TC**  
**MFG PN: T213T 7.5U2B**



| NAMEPLATE DATA             | 60Hz       | 50Hz      |
|----------------------------|------------|-----------|
| Horse Power                | 7.5        | 7.5       |
| RPM                        | 3520       | 2910      |
| Voltage                    | 230/460    | 190/380   |
| Full Load Amps             | 17.0/8.48  | 19.9/9.95 |
| Service Factor             | 1.25       | 1         |
| KVA Code                   | K          | H         |
| Full Load Amps (208V)      | 18.7       | -         |
| Nominal Efficiency         | 89.5       | 88.5      |
| Nominal Power Factor       | 0.91       | -         |
| Design                     | A          |           |
| Frame                      | 213TC      |           |
| Enclosure Type             | TEFC       |           |
| IP Rating                  | 55         |           |
| Duty                       | Cont. / S1 |           |
| Insulation Class           | F          |           |
| Ambient Rating             | 40         |           |
| Drive End Bearing          | 6308 ZZ    |           |
| Opposite Drive End Bearing | 6208 ZZ    |           |
| Weight (lbs)               | 136        |           |

**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  55  
 SF  DUTY   
 KVA CODE  INS CL   
 NOM.EFF  AMB   
 EFF 75%  DE   
 PF  ODE   
 USABLE AT 208V  WEIGHT  lbs  
 A  
**NEMA Premium**  
 TECHTOPCANADA.COM  
 BRAKE: NM FT-LBS VOLTS: VAC VDC MADE IN CHINA 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

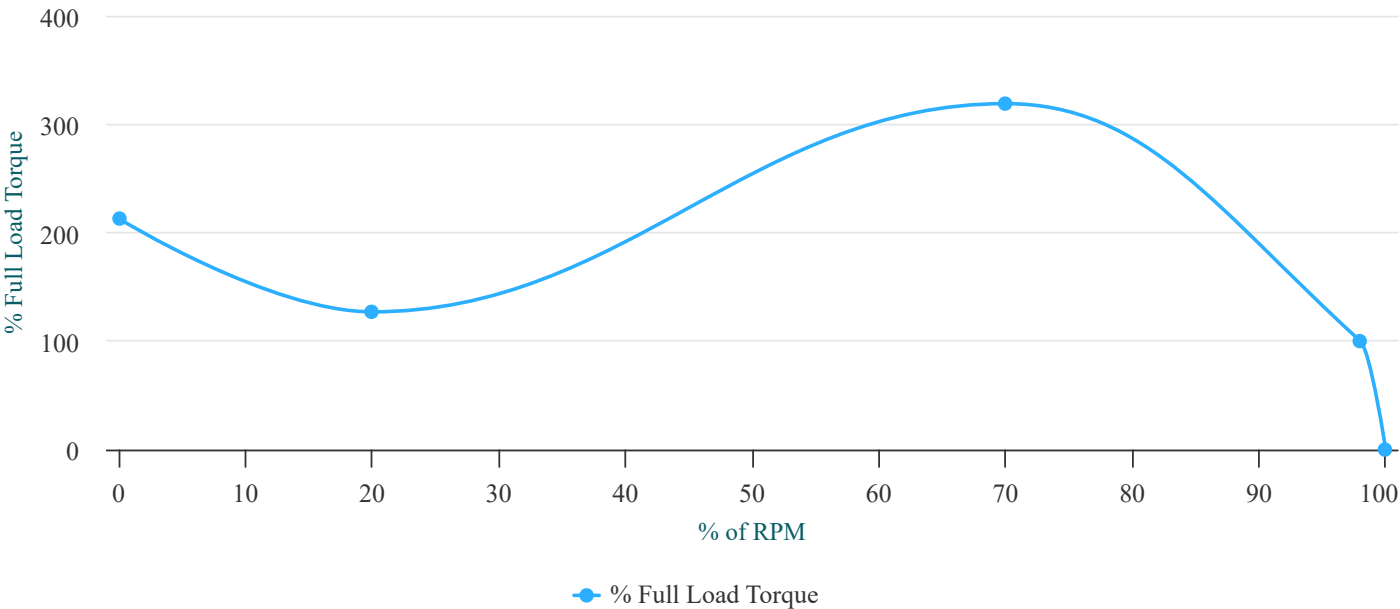
| DC BRAKE DATA             |     |      |
|---------------------------|-----|------|
| Brake Torque (Nm / ft.lb) | 60  | 44.3 |
| Brake Volts (VDC / VAC)   | 205 | 230  |

**Questions? Call 1.888.286.1820**



Model **BMG0072D-TC**  
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Torque Speed (T-n) Curve



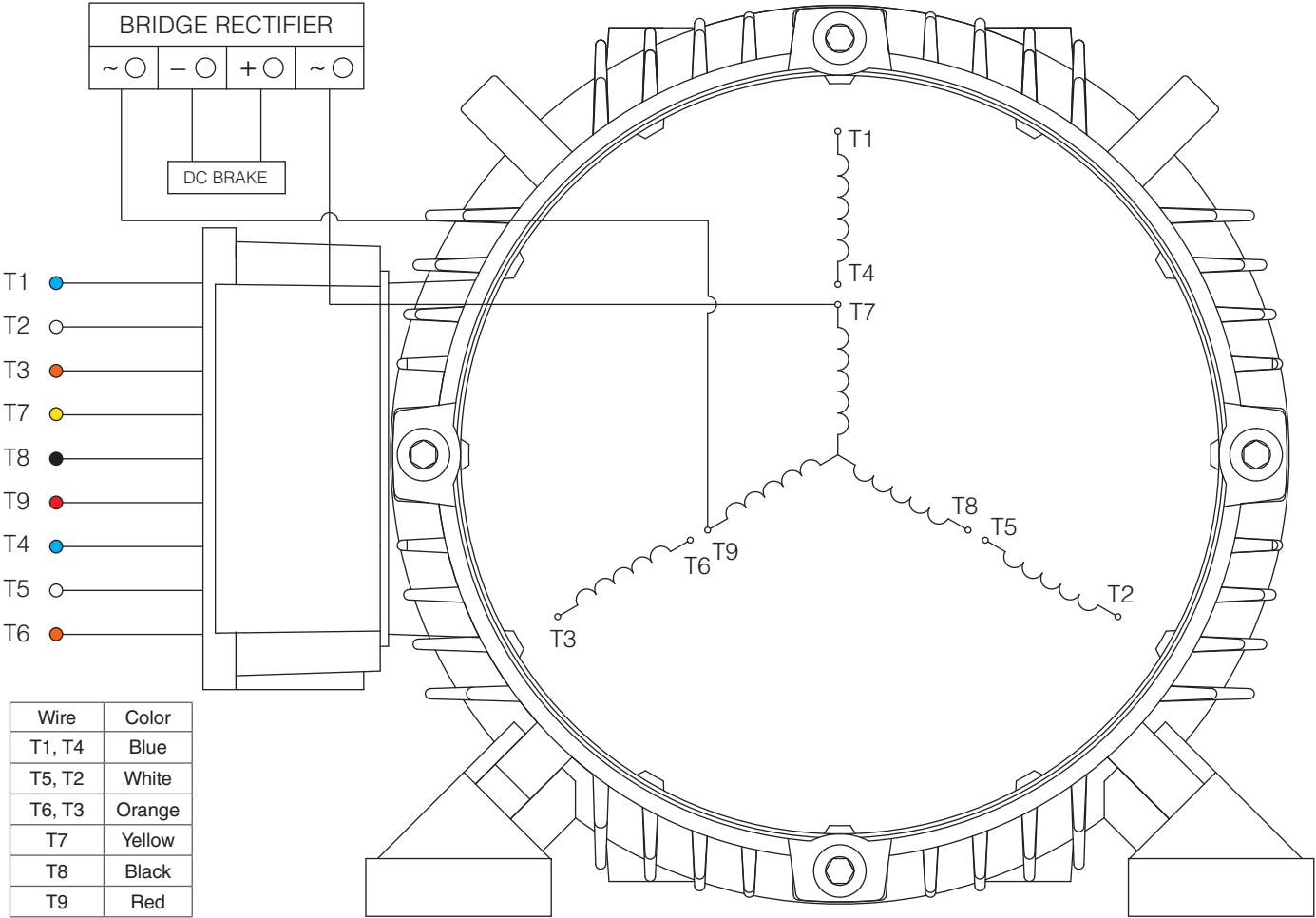
PERFORMANCE LOAD VALUES, HIGH VOLTAGE, 60Hz

| TORQUE VALUES       | TORQUE (lb-ft) | TORQUE (% FULL LOAD) | PERFORMANCE VALUES   |      |
|---------------------|----------------|----------------------|----------------------|------|
| Locked Rotor Torque | 11.2           | 213                  | Start Configuration  | DOL  |
| Pull-Up Torque      | 14.2           | 127                  | Starting Current (A) | 88.9 |
| Breakdown Torque    | 35.7           | 319                  | No-Load Current (A)  | 4    |
| Full Load Torque    | 23.8           | 100                  | No-Load Power Factor | 0.07 |

TYPICAL PERFORMANCE - NOT GUARANTEED VALUES

| % OF RATED LOAD     | 25   | 50   | 75   | 100  | 125  | S.F. 1.25 |
|---------------------|------|------|------|------|------|-----------|
| Line Amperes (A)    | 4.4  | 5.6  | 7.2  | 9    | 11   | 11        |
| Efficiency (%)      | 84.7 | 90.1 | 91.3 | 91.3 | 90.7 | 90.7      |
| Speed (r/min)       | 1793 | 1786 | 1778 | 1770 | 1761 | 1761      |
| Power Factor (cosΦ) | 0.46 | 0.68 | 0.79 | 0.84 | 0.87 | 0.87      |
| Input Power (kW)    | 1.62 | 3.05 | 4.52 | 6.02 | 7.58 | 7.58      |

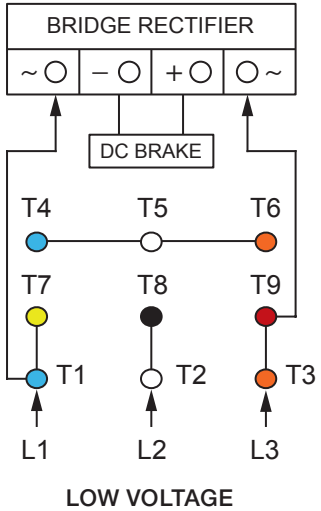
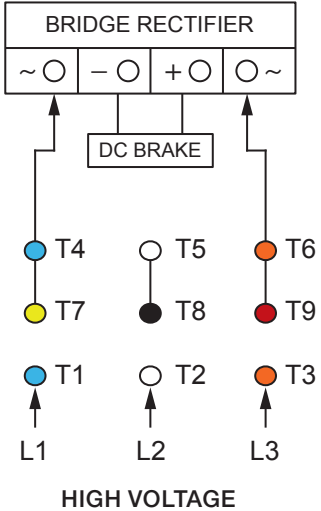
Questions? Call 1.888.286.1820



- 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



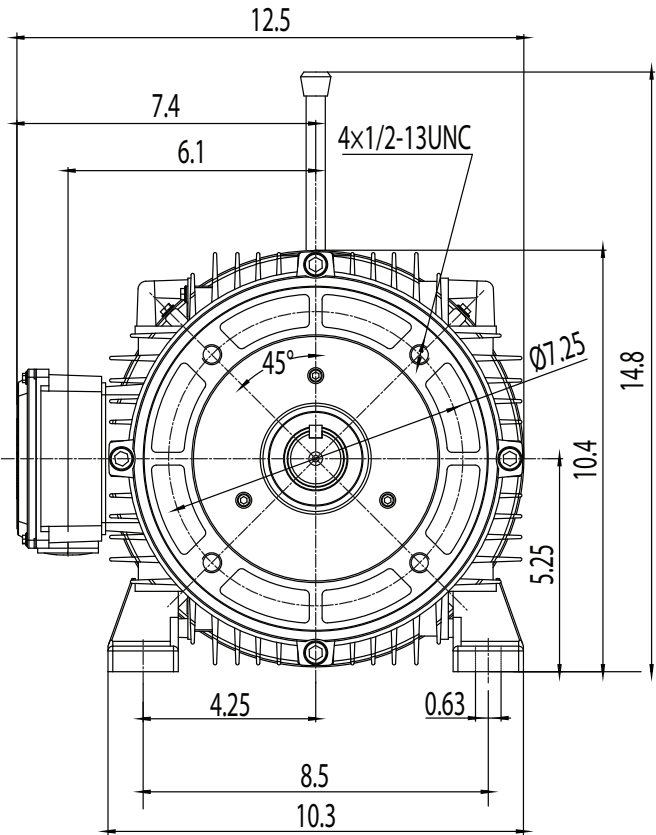
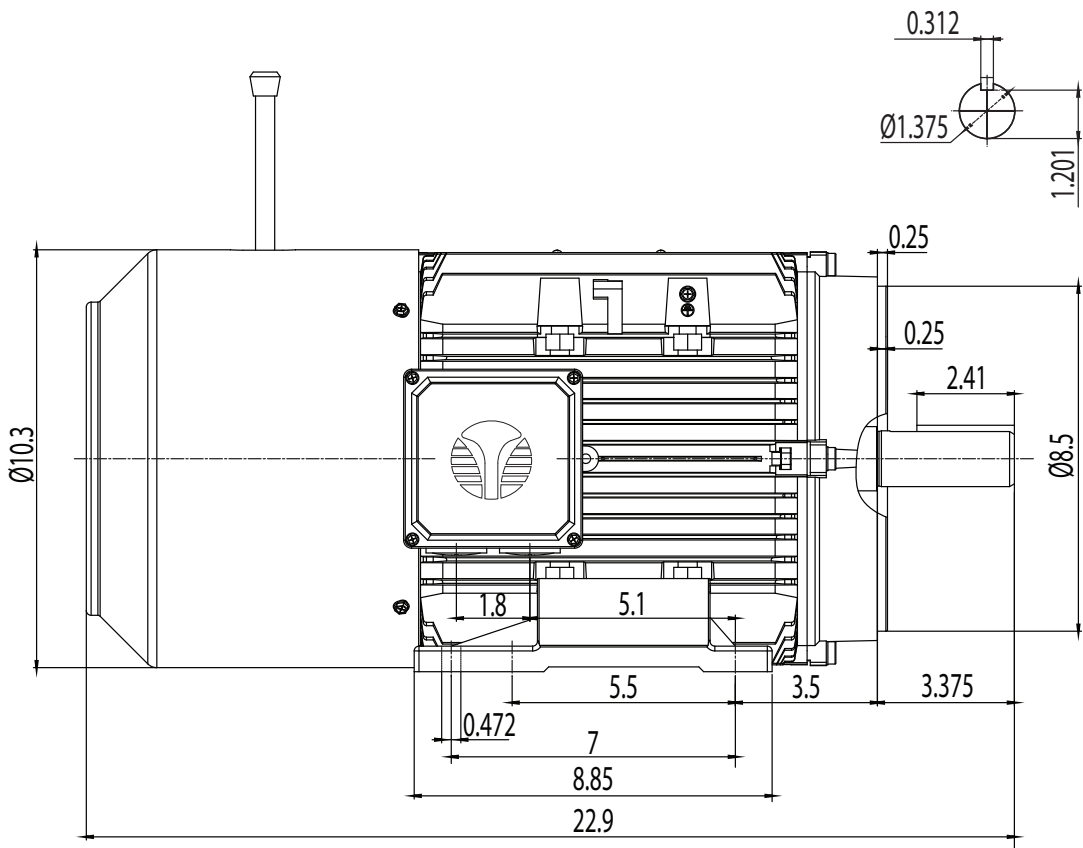
|                     |                   |
|---------------------|-------------------|
| DRAWING NUMBER:     | NEMA-3-9-YY-Y-BRK |
| CONNECTION:         | YY/Y              |
| NUMBER OF LEADS:    | 9                 |
| THERMAL PROTECTION: | Optional          |



NEMA 3Ø YY/Y 9-Lead Dual Voltage

ISSUED DATE 11/07/25

PREMIUM T-FRAME BRAKE MOTORS



NEMA Premium TEFC 213TC

|                  |                     |                              |          |
|------------------|---------------------|------------------------------|----------|
| DRAWING NUMBER:  | GR3-AL-TF-210TC-BRK | ISSUED DATE                  | 11/07/25 |
| DIMENSIONS:      | Inches              | PREMIUM T-FRAME BRAKE MOTORS |          |
| MOUNTING:        | Rigid/C-Flange      |                              |          |
| CASING MATERIAL: | Cast Aluminum       |                              |          |