

NEMA

Model **GRA0056F-01**
MFG PN: T215T5U6B

Model **GRA0056F-01**

Product Data Package



MODEL	HP	RPM	VOLTAGE	PHASE	Hz	FRAME	MOUNT	ENCLOSURE
GRA0056F-01	5	1170	575	3	60	215T	Rigid	TEFC

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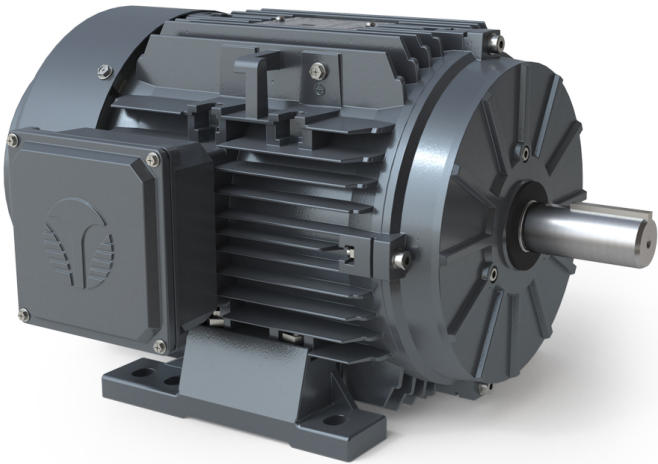
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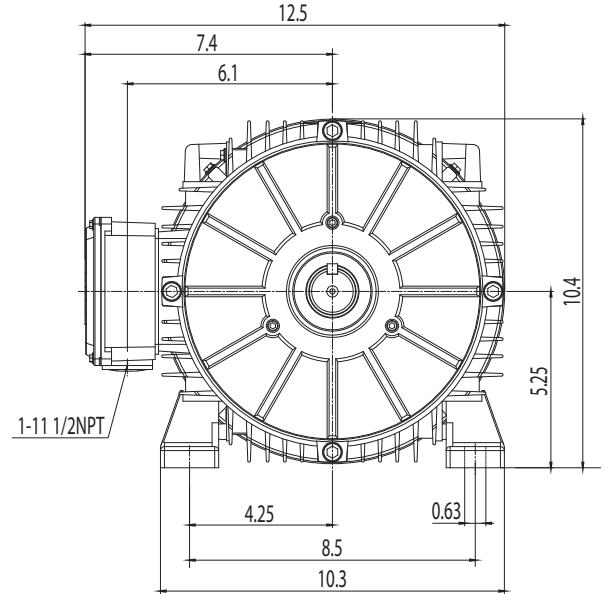
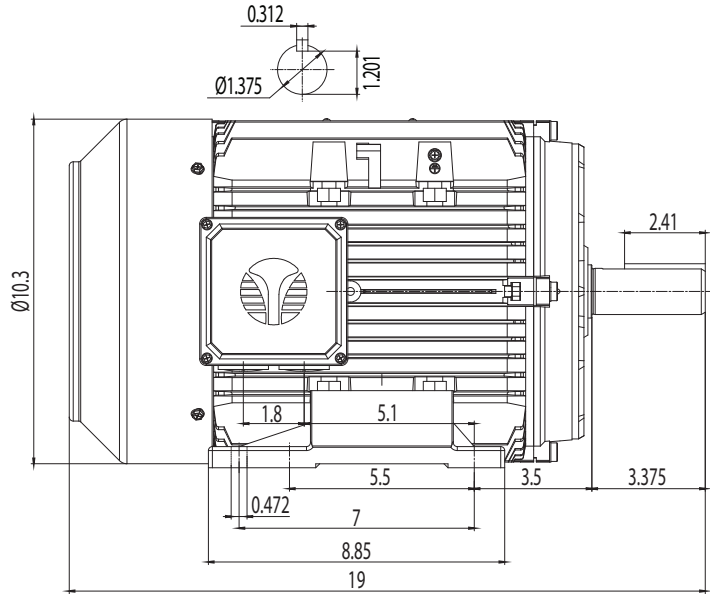
ELECTRICAL DATA		
Rated Motor Output Power	5	HP
	-	kW
Rated Motor Speed	1170	r/min 60Hz
	-	r/min 50Hz
Rated Motor Voltage (+/-10%)	575	V/60Hz
	-	V/50Hz
Rated Motor Current	5.69	A (I _n) @ 60Hz
	-	A (I _n) @ 50Hz
Phase	3	Ø
Locked Rotor Current @ High Voltage	41.52	A (I _n) @ 60Hz
FI Current @ 208V	-	A (I _n) @ 60Hz
Service Factor	1.25	@ 60Hz
	-	@ 50Hz
KVA Code	J	60Hz
	-	50Hz
Nominal Efficiency	89.5	% @ 60Hz
Nominal Power Factor	0.73	cosΦ @ 60Hz
Leads (Qty, Size)	3	14
Connection	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	36	°C @ 60Hz
	-	°C @ 50Hz

GENERAL DATA		
Frame Size	215T	
Enclosure	TEFC	
Mounting	Rigid	
Approximate Weight (lbs.)	113 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	62.8	
SITE CONDITIONS		
Ambient Temperature (°C)	40	
Meters Above Sea Level (MASL)	1000	
HAZARDOUS LOCATIONS		
CSA Certified	A, B, C & D	
Temperature Code	T3A	-

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NAMEPLATE DATA	60Hz	50Hz
Horse Power	5	5
RPM	1170	-
Voltage	575	-
Full Load Amps	5.69	-
Service Factor	1.25	-
KVA Code	J	-
Full Load Amps (208V)	-	-
Nominal Efficiency	89.5	-
Nominal Power Factor	0.73	-
Design	A	
Frame	215T	
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)	113	

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	TEFC 55
SF		DUTY	
KVA CODE		INS CL	
NOM.EFF		AMB	
EFF 75%		DE	
PF		ODE	
USABLE AT 208V		WEIGHT	lbs
NEMA Premium TECHTOPCANADA.COM		CE CC088A E323353 SP C224653 MADE IN CHINA Energy Verified Only	
CLASS 1, DIV 2, GROUPS A, B, C AND D			

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

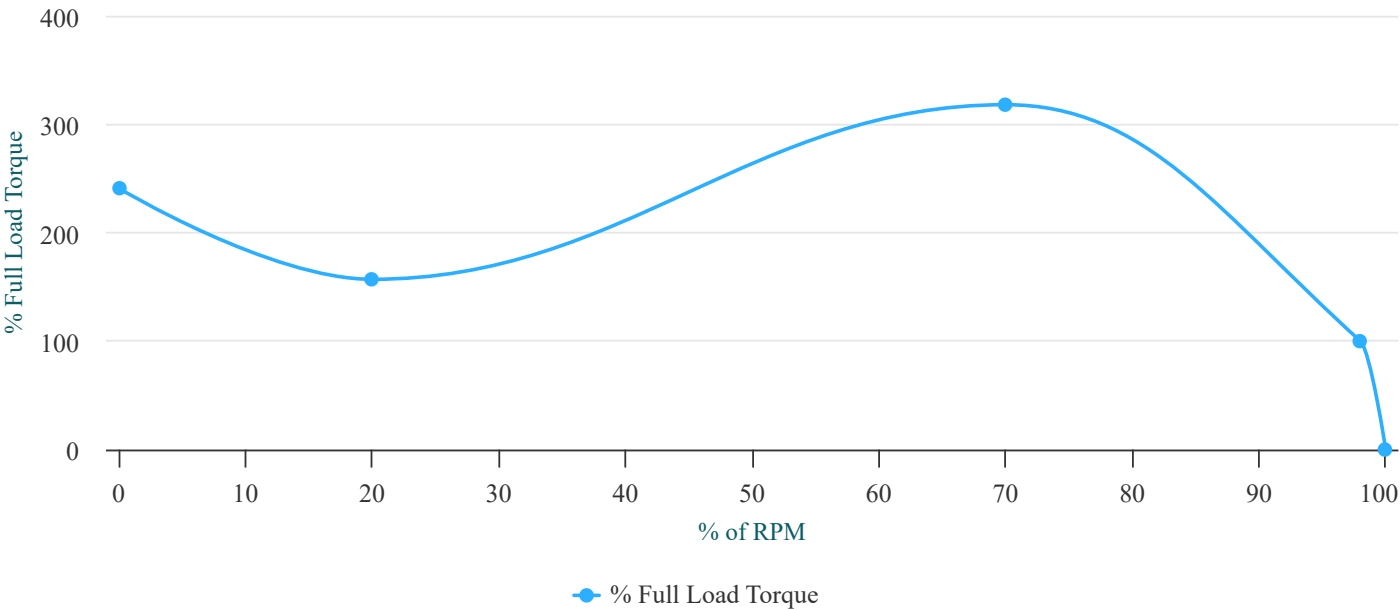
HAZARDOUS LOCATIONS	CSA CERTIFIED
Class / Division	Class I, Div. 2
Groups	A, B, C & D

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Torque Speed (T-n) Curve



PERFORMANCE LOAD VALUES, HIGH VOLTAGE, 60Hz

TORQUE VALUES	TORQUE (lb-ft)	TORQUE (% FULL LOAD)
Locked Rotor Torque	54.1	241
Pull-Up Torque	35.2	157
Breakdown Torque	71.4	318
Full Load Torque	22.4	100

TYPICAL PERFORMANCE - NOT GUARANTEED VALUES

PERFORMANCE VALUES	
Start Configuration	DOL
Starting Current (A)	41.52
No-Load Current (A)	2.9
No-Load Power Factor	0.06

% OF RATED LOAD	25	50	75	100	125	S.F. 1.25
Line Amperes (A)	3.1	3.6	4.4	5.4	6.6	6.6
Efficiency (%)	83.4	89.1	90.3	90.2	89.4	89.4
Speed (r/min)	1194	1189	1183	1176	1169	1169
Power Factor (cosΦ)	0.36	0.57	0.7	0.76	0.79	0.79
Input Power (kW)	1.11	2.08	3.07	4.1	5.18	5.18

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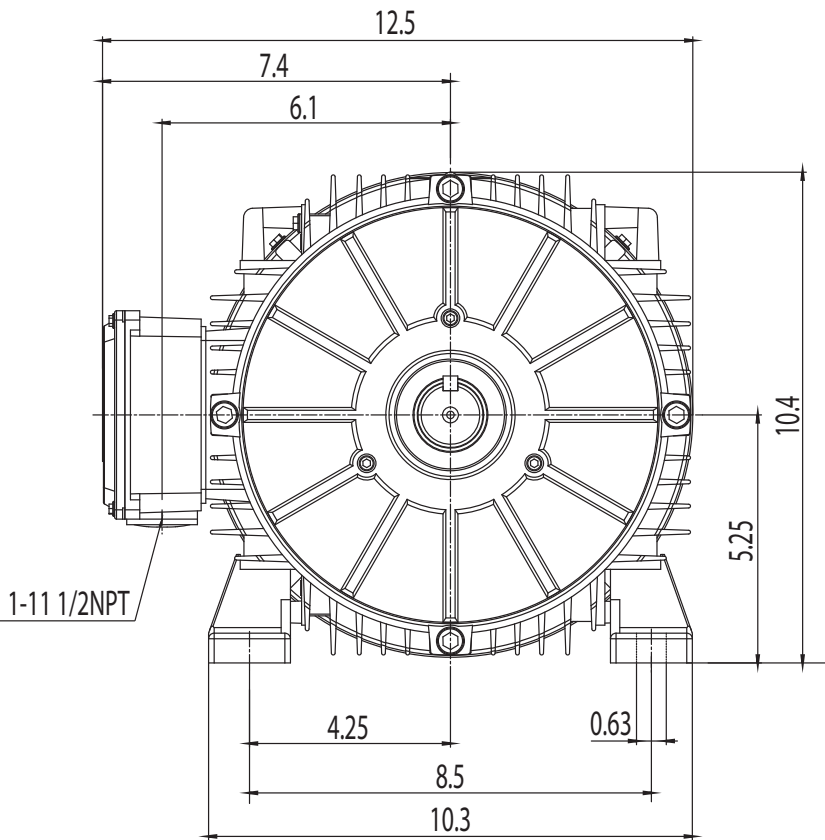
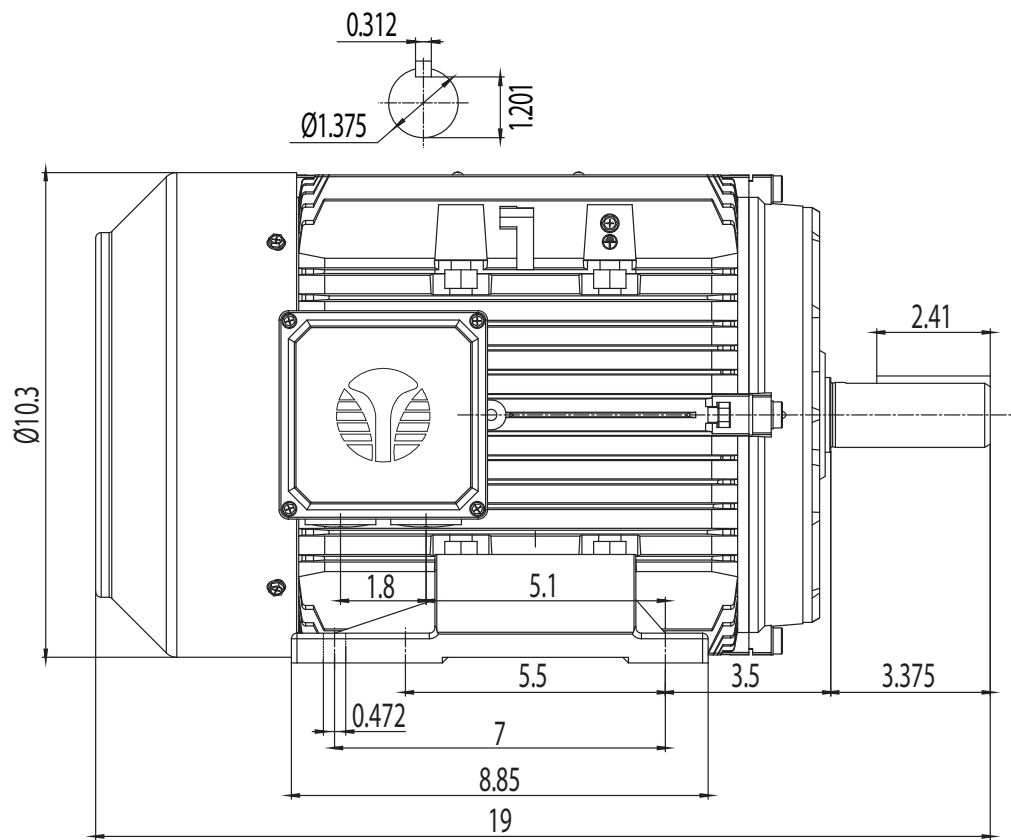
- NOTES:
- 1. CCW ROTATION FACING ODE FOR CONNECTIONS SHOWN
 - 2. TO REVERSE ROTATION, SWAP ANY TWO INPUT LINES
 - 3. WHEN MOTOR IS IN F1 POSITION, LEADS INDICATED WITH “*” EXIT THE CASING ABOVE THE CENTER LINE OF THE MOTOR, THE REMAINING LEADS EXIT BELOW THE CENTER LINE
 - 4. LEADS MUST BE NUMBERED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



DRAWING NUMBER:	NEMA-3-3-Y
CONNECTION:	Y
NUMBER OF LEADS:	3
THERMAL PROTECTION:	-

NEMA 3Ø Y 3-Lead Single Voltage

ISSUED DATE	22/01/25
PREMIUM T-FRAME ALUMINUM MOTORS	



NEMA Premium TEFC 215T

DRAWING NUMBER:	GR3-AL-TF-210T-01	ISSUED DATE	22/01/25
DIMENSIONS:	Inches	PREMIUM T-FRAME ALUMINUM MOTORS	
MOUNTING:	Rigid		
CASING MATERIAL:	Cast Aluminum		