

NEMA

Model **GRA0256F-TC-01**
MFG PN: T324T25U6B

Model **GRA0256F-TC-01**

Product Data Package



MODEL	HP	RPM	VOLTAGE	PHASE	Hz	FRAME	MOUNT	ENCLOSURE
GRA0256F-TC-01	25	1180	575	3	60	324TC	Rigid/C-Flange	TEFC

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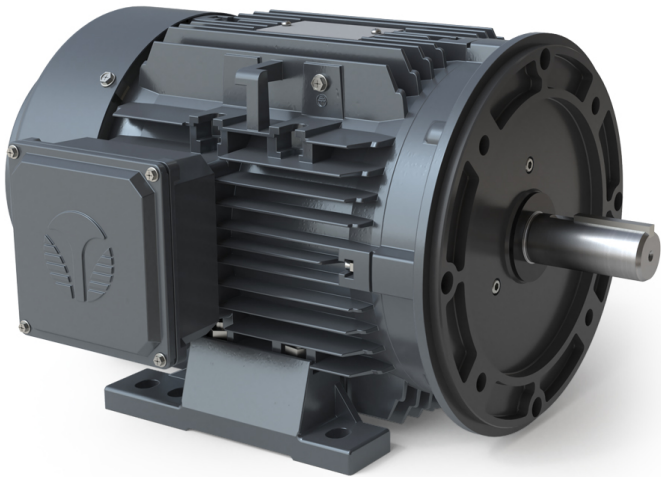
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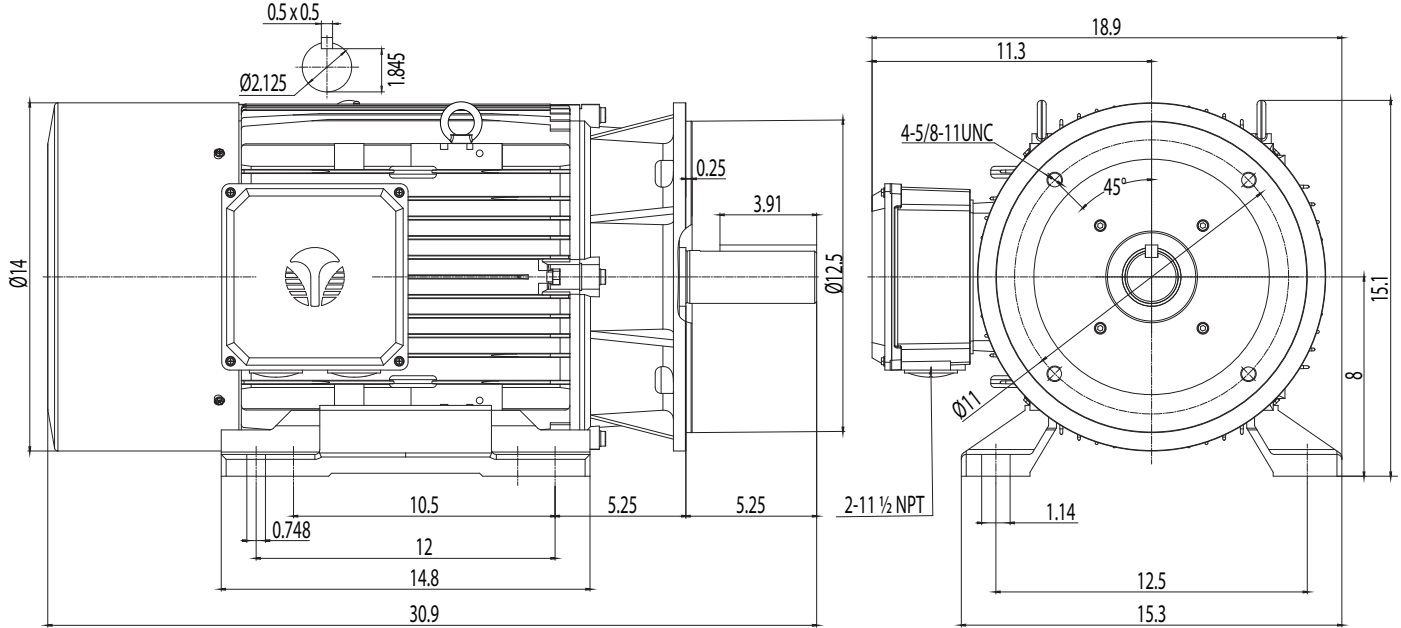
ELECTRICAL DATA		
Rated Motor Output Power	25	HP
	-	kW
Rated Motor Speed	1180	r/min 60Hz
	-	r/min 50Hz
Rated Motor Voltage (+/-10%)	575	V/60Hz
	-	V/50Hz
Rated Motor Current	25.00	A (I _n) @ 60Hz
	-	A (I _n) @ 50Hz
Phase	3	Ø
Locked Rotor Current @ High Voltage	289.12	A (I _n) @ 60Hz
FI Current @ 208V	-	A (I _n) @ 60Hz
Service Factor	1.25	@ 60Hz
	-	@ 50Hz
KVA Code	L	60Hz
	-	50Hz
Nominal Efficiency	93	% @ 60Hz
Nominal Power Factor	0.8	cosΦ @ 60Hz
Leads (Qty, Size)	6	12
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	-	°C @ 60Hz
	-	°C @ 50Hz

GENERAL DATA		
Frame Size	324TC	
Enclosure	TEFC	
Mounting	Rigid/C-Flange	
Approximate Weight (lbs.)	381.7 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	6312 ZZ	
Bearing ODE Side	6212 ZZ	
Grease Type	Mobil Polyrex EM	
Compensation Ring (wavy washer)	NDE	
Moment of Inertia (lb-ft²)	-	
Sound Pressure @ 3 FT dBA	74	
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	25	25
RPM	1180	-
Voltage	575	-
Full Load Amps	25.00	-
Service Factor	1.25	-
KVA Code	L	-
Full Load Amps (208V)	-	-
Nominal Efficiency	93	-
Nominal Power Factor	0.8	-
Design	A	
Frame	324TC	
Enclosure Type	TEFC	
IP Rating	55	
Duty	Cont. / S1	
Insulation Class	F	
Ambient Rating	40	
Drive End Bearing	6312 ZZ	
Opposite Drive End Bearing	6212 ZZ	
Weight (lbs)	381.7	

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
 CLASS 1, DIV 2, GROUPS A, B, C AND D
 MADE IN CHINA
 CC088A
 E323353
 C-UL
 224653
 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

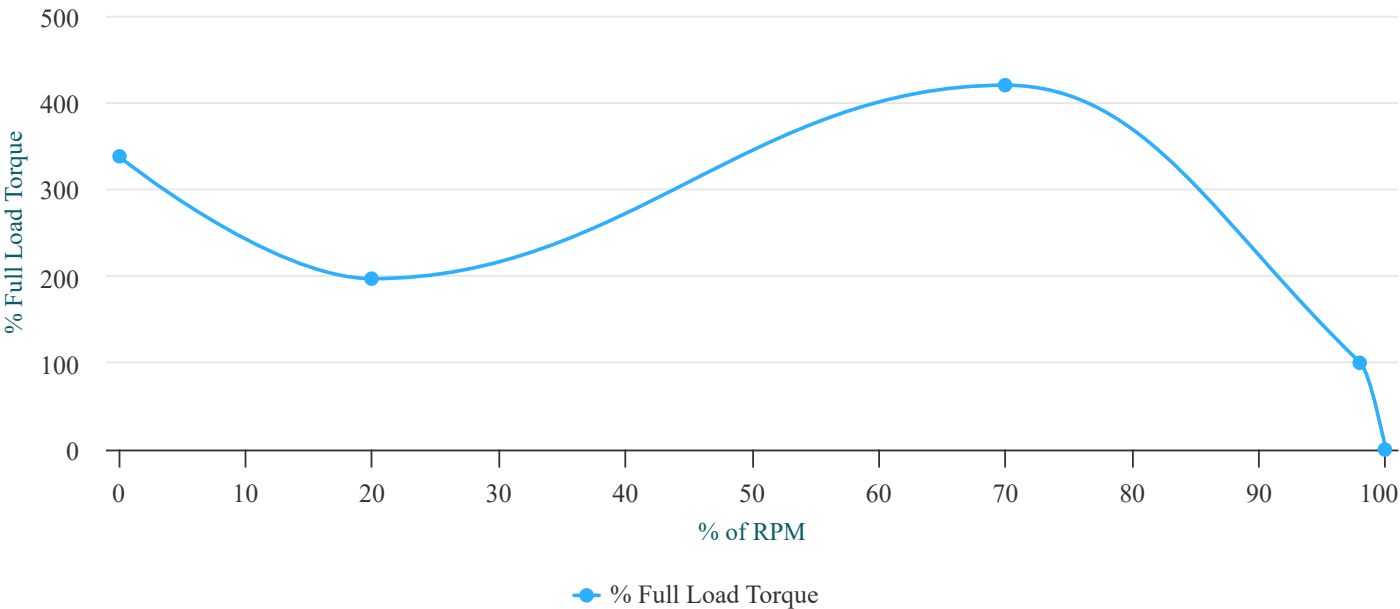
HAZARDOUS LOCATIONS	CSA CERTIFIED
Class / Division	Class I, Div. 2
Groups	A, B, C & D

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Torque Speed (T-n) Curve



PERFORMANCE LOAD VALUES, HIGH VOLTAGE, 60Hz

TORQUE VALUES	TORQUE (lb-ft)	TORQUE (% FULL LOAD)	PERFORMANCE VALUES	
Locked Rotor Torque	376.1	338	Start Configuration	DOL
Pull-Up Torque	219.2	197	Starting Current (A)	289.12
Breakdown Torque	467.3	420	No-Load Current (A)	11.7
Full Load Torque	111.3	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)	12.8	15.9	19.9	24.6	27.8	27.8
Efficiency (%)	87	91.7	92.8	92.8	92.6	92.6
Speed (r/min)	1197	1193	1190	1186	1183	1183
Power Factor (cosΦ)	0.42	0.64	0.76	0.82	0.84	0.84
Input Power (kW)	5.35	10.14	15.04	20.04	23.1	23.1

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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-3-6-D
CONNECTION:	D
NUMBER OF LEADS:	6
THERMAL PROTECTION:	-

NEMA 3Ø D 6-Lead Single Voltage

ISSUED DATE	19/02/25
PREMIUM T-FRAME ALUMINUM MOTORS	



NEMA Premium TEFC 324TC

DRAWING NUMBER:	GR3-AL-TF-320TC-01	ISSUED DATE	19/02/25
DIMENSIONS:	Inches		
MOUNTING:	Rigid/C-Flange	PREMIUM T-FRAME ALUMINUM MOTORS	
CASING MATERIAL:	Cast Aluminum		