

NEMA

Model **GRA0404F-01**
MFG PN: T324T40U4B

Model **GRA0404F-01**

Product Data Package



MODEL	HP	RPM	VOLTAGE	PHASE	Hz	FRAME	MOUNT	ENCLOSURE
GRA0404F-01	40	1770	575	3	60	324T	Rigid	TEFC

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Moncton

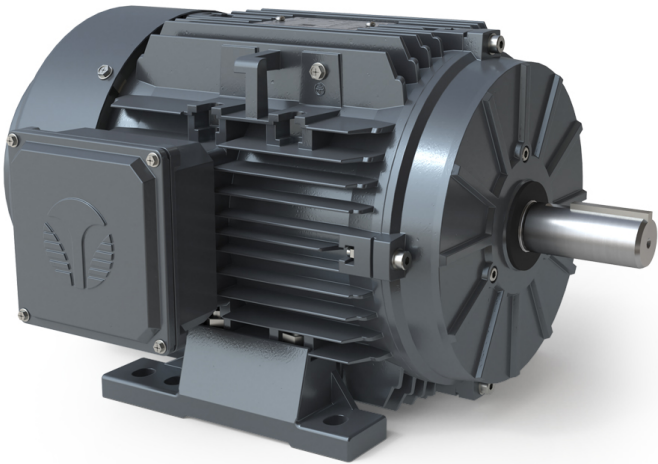
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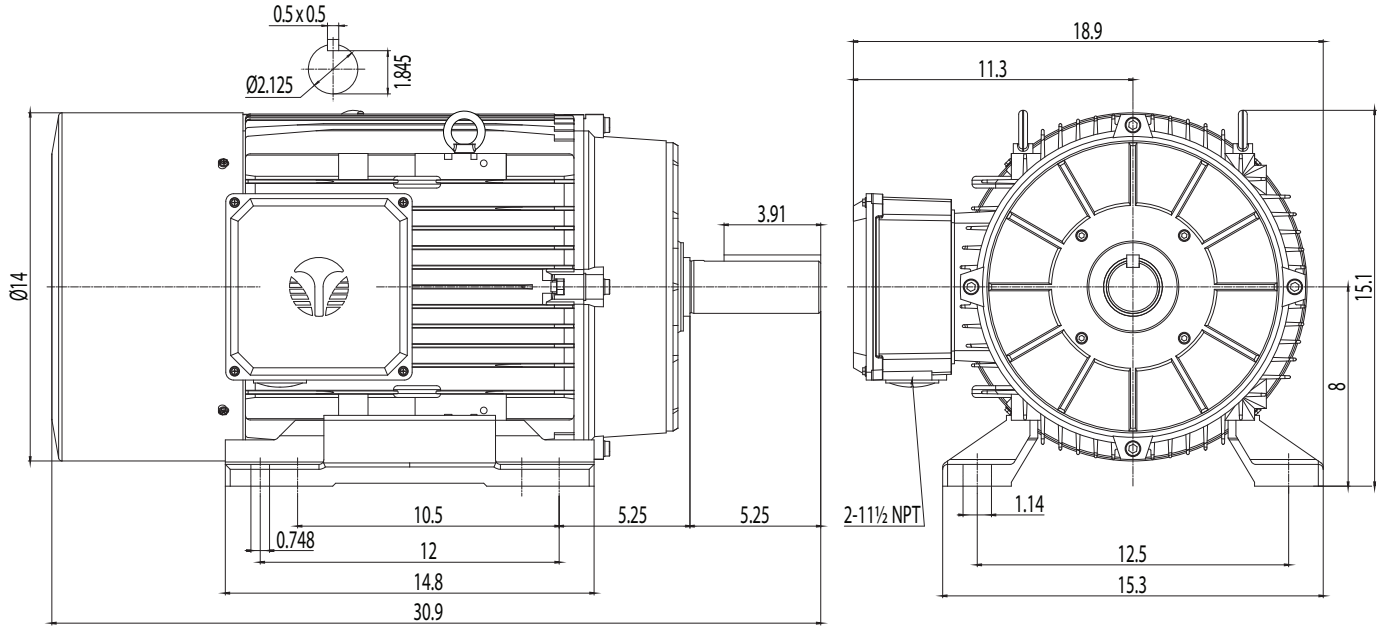
ELECTRICAL DATA		
Rated Motor Output Power	40	HP
	-	kW
Rated Motor Speed	1770	r/min 60Hz
	-	r/min 50Hz
Rated Motor Voltage (+/-10%)	575	V/60Hz
	-	V/50Hz
Rated Motor Current	36.40	A (I _n) @ 60Hz
	-	A (I _n) @ 50Hz
Phase	3	Ø
Locked Rotor Current @ High Voltage	397.05	A (I _n) @ 60Hz
FI Current @ 208V	-	A (I _n) @ 60Hz
Service Factor	1.25	@ 60Hz
	-	@ 50Hz
KVA Code	L	60Hz
	-	50Hz
Nominal Efficiency	94.1	% @ 60Hz
Nominal Power Factor	0.88	cosΦ @ 60Hz
Leads (Qty, Size)	6	10
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	324T	
Enclosure	TEFC	
Mounting	Rigid	
Approximate Weight (lbs.)	417 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	80	
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	40	40
RPM	1770	-
Voltage	575	-
Full Load Amps	36.40	-
Service Factor	1.25	-
KVA Code	L	-
Full Load Amps (208V)	-	-
Nominal Efficiency	94.1	-
Nominal Power Factor	0.88	-
Design	A	
Frame	324T	
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)	417	

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

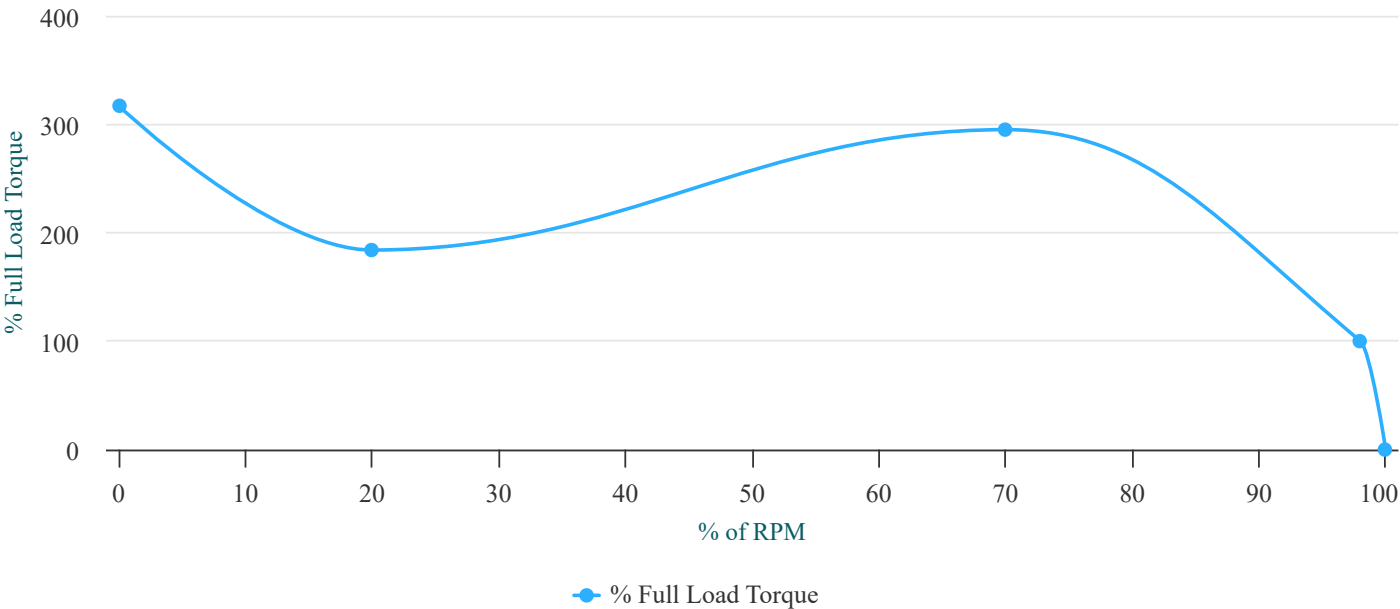
HAZARDOUS LOCATIONS	CSA CERTIFIED
Class / Division	Class I, Div. 2
Groups	A, B, C & D

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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	376.2	317	Start Configuration	DOL
Pull-Up Torque	218.4	184	Starting Current (A)	397.05
Breakdown Torque	350.1	295	No-Load Current (A)	16.5
Full Load Torque	118.7	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)	19	25.5	33.6	43.1	53.4	53.4
Efficiency (%)	89.8	93.2	93.8	93.5	92.8	92.8
Speed (r/min)	1795	1790	1785	1780	1774	1774
Power Factor (cosΦ)	0.51	0.73	0.82	0.86	0.87	0.87
Input Power (kW)	9.61	18.5	27.59	36.91	46.47	46.47

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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



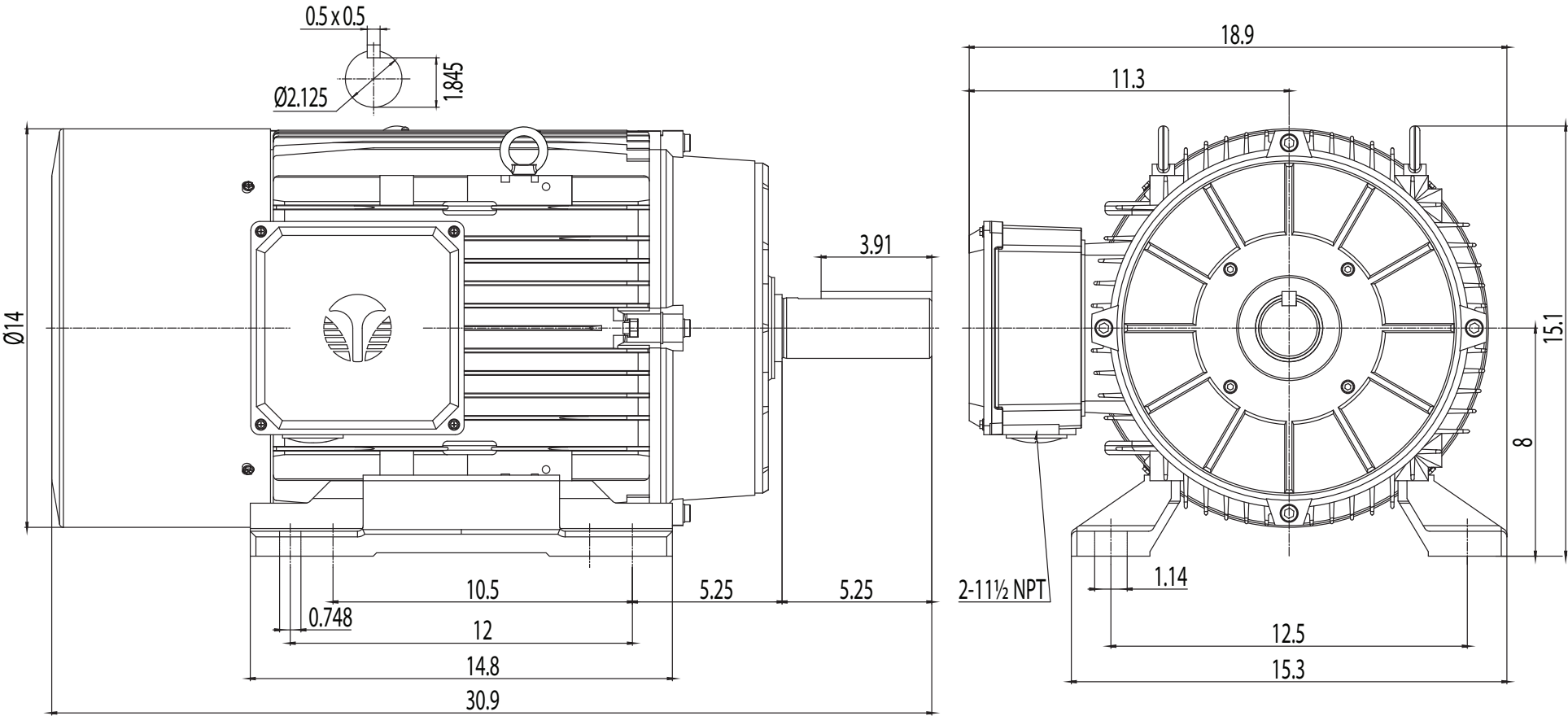
DRAWING NUMBER:	NEMA-3-6-D
CONNECTION:	D
NUMBER OF LEADS:	6
THERMAL PROTECTION:	-

NEMA 3Ø D 6-Lead Single Voltage

ISSUED DATE	06/03/25
PREMIUM T-FRAME ALUMINUM MOTORS	



Model **GRA0404F-01**
MFG PN: T324T40U4B



NEMA Premium TEFC 324T

DRAWING NUMBER:	GR3-AL-TF-320T-01	ISSUED DATE	06/03/25
DIMENSIONS:	Inches	PREMIUM T-FRAME ALUMINUM MOTORS	
MOUNTING:	Rigid		
CASING MATERIAL:	Cast Aluminum		