

NEMA

Model GRC0106F
MFG PN: T256T10U6B

Model GRC0106F

Product Data Package



MODEL	HP	RPM	VOLTAGE	PHASE	Hz	FRAME	MOUNT	ENCLOSURE
GRC0106F	10	1175	575	3	60	256T	Rigid	TEFC

Toronto

TOLL FREE 1.888.286.1820
PHONE 905.829.1001
EMAIL info@techttopcanada.com

Montreal

TOLL FREE 1.844.354.5111
PHONE 514.354.1002
EMAIL infoQC@techttopcanada.com

Moncton

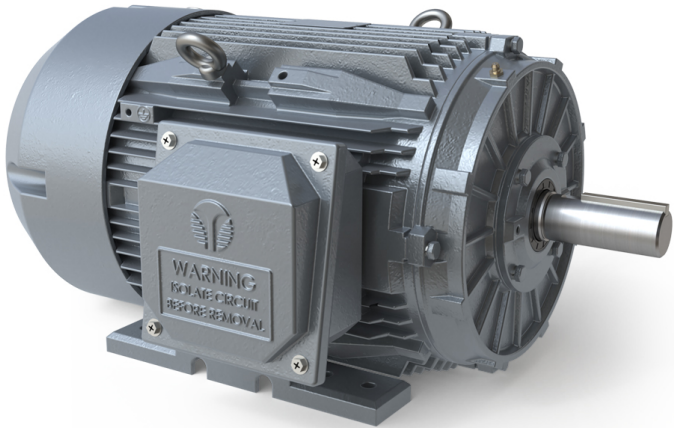
PHONE 506.386.5794
EMAIL infoNB@techttopcanada.com

Winnipeg

PHONE 204.633.2779
EMAIL infoMB@techttopcanada.com

Vancouver

PHONE 604.525.1551
EMAIL infoBC@techttopcanada.com



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NEMA

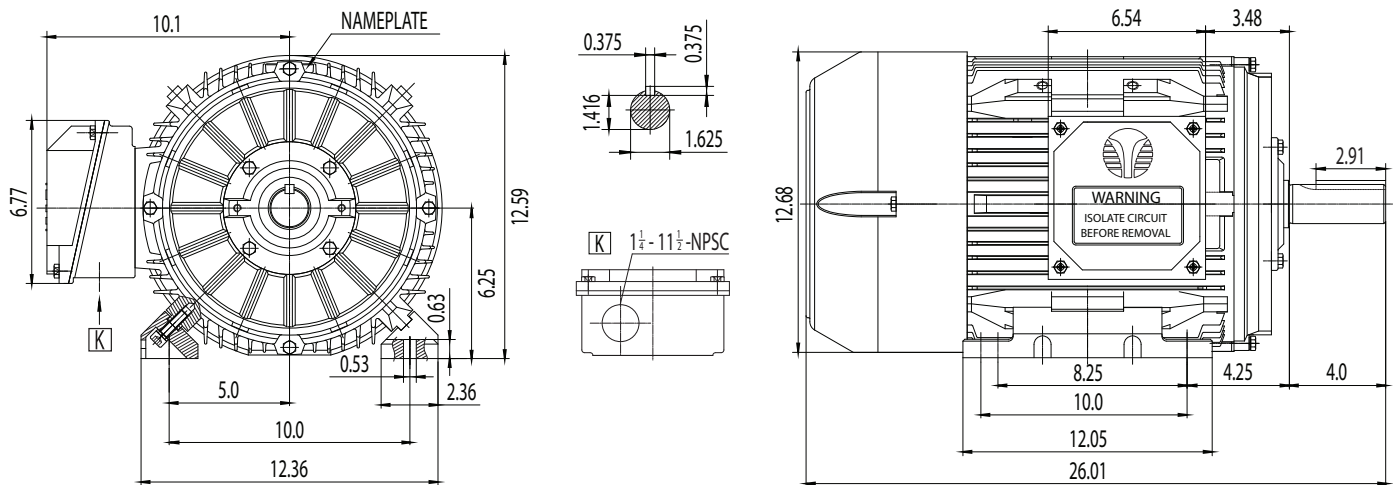
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ELECTRICAL DATA		
Rated Motor Output Power	10	HP
	-	kW
Rated Motor Speed	1175	r/min 60Hz
	-	r/min 50Hz
Rated Motor Voltage (+/-10%)	575	V/60Hz
	-	V/50Hz
Rated Motor Current	11.13	A (I _n) @ 60Hz
	-	A (I _n) @ 50Hz
Phase	3	Ø
Locked Rotor Current @ High Voltage	70.52	A (I _n) @ 60Hz
FI Current @ 208V	-	A (I _n) @ 60Hz
Service Factor	1.25	@ 60Hz
	1	@ 50Hz
KVA Code	K	60Hz
	-	50Hz
Nominal Efficiency	91	% @ 60Hz
Nominal Power Factor	0.74	cosΦ @ 60Hz
Leads (Qty, Size)	6	14
Connection	D	-
Coil Resistance	0.879	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	48.3	°C @ 60Hz
	76	°C @ 50Hz

GENERAL DATA		
Frame Size	256T	
Enclosure	TEFC	
Mounting	Rigid	
Approximate Weight (lbs.)	294.8 lbs.	
Casing Material / Fan Cover	Cast Iron	Cast Iron
Shaft Material	-	
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	6309 C3	
Bearing ODE Side	6309 C3	
Grease Type	Mobil Polyrex EM	
Compensation Ring (wavy washer)	NDE	
Moment of Inertia (lb-ft²)	2.78	
Sound Pressure @ 3 FT dBA	66.6	
SITE CONDITIONS		
Ambient Temperature (°C)	40	
Meters Above Sea Level (MASL)	1000	
HAZARDOUS LOCATIONS		
CSA Certified	A, B, C & D	
Temperature Code	T3	-

Questions? Call 1.888.286.1820

MFG PN: T256T10U6B



NAMEPLATE DATA	60Hz	50Hz
Horse Power	10	10
RPM	1175	-
Voltage	575	-
Full Load Amps	11.13	-
Service Factor	1.25	1
KVA Code	K	-
Full Load Amps (208V)	-	-
Nominal Efficiency	91	-
Nominal Power Factor	0.74	-
Design	A	
Frame	256T	
Enclosure Type	TEFC	
IP Rating	55	
Duty	Cont. / S1	
Insulation Class	F	
Ambient Rating	40	
Drive End Bearing	6309 C3	
Opposite Drive End Bearing	6309 C3	
Weight (lbs)	294.8	

<b style="font-size: 24px; vertical-align: middle;">TECHTOP		INDUSTRIAL THREE PHASE MOTOR INVERTER DUTY 15:1 CT 30:1 VT - 1.0 SF	
MODEL			TECHTOPCANADA.COM
NEMA <i>Premium</i>	60Hz	50Hz	MFG PN MFG DATE SER # DESIGN FRAME ENCL IP DUTY INS CL AMB WEIGHT
	HP		
	RPM		
	VOLT		
	FLA		
	SF		
	KVA CODE		
NOM.EFF			 CC098A E323353 C224693 Energy Verifi Only
BEARING SIZE			
DE		ODE	
GREASE: MOBIL POLYREX EM			
MADE IN CHINA			IEEE 45 MARINE DUTY

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

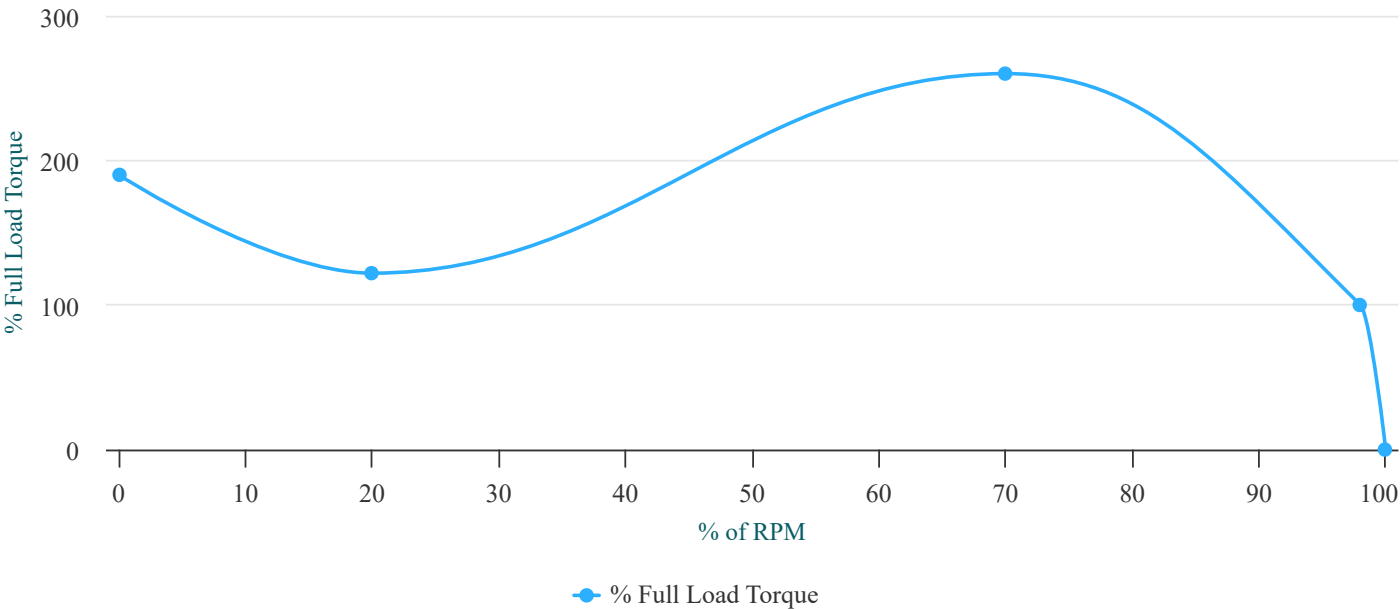
HAZARDOUS LOCATIONS	CSA CERTIFIED
Class / Division	Class I, Div. 2
Groups	A, B, C & D

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Model GRC0106F
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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	84.9	190	Start Configuration	DOL
Pull-Up Torque	54.5	122	Starting Current (A)	70.52
Breakdown Torque	116.2	260	No-Load Current (A)	5.1
Full Load Torque	44.7	100	No-Load Power Factor	0.04

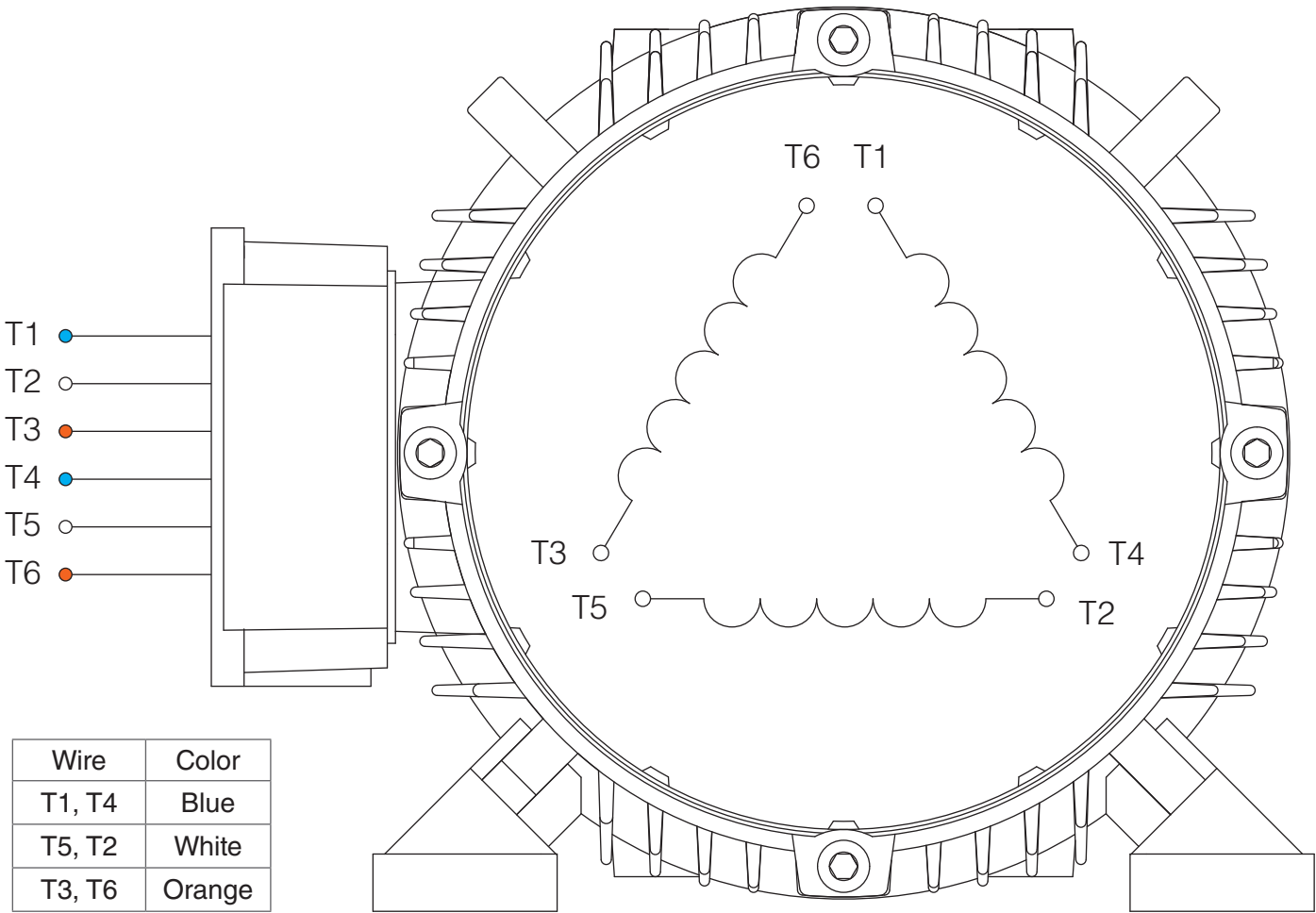
TYPICAL PERFORMANCE - NOT GUARANTEED VALUES

% OF RATED LOAD	25	50	75	100	125	S.F. 1.25
Line Amperes (A)	5.5	6.8	8.6	10.7	13.2	13.2
Efficiency (%)	88.5	91.8	91.9	91	89.6	89.6
Speed (r/min)	1194	1188	1181	1173	1164	1164
Power Factor (cosΦ)	0.39	0.6	0.72	0.77	0.79	0.79
Input Power (kW)	2.12	4.09	6.12	8.24	10.46	10.46

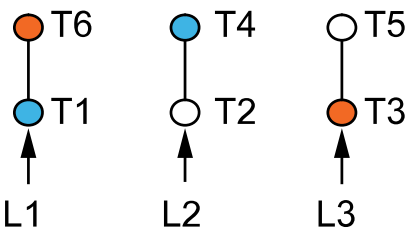
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Wire	Color
T1, T4	Blue
T5, T2	White
T3, T6	Orange



SINGLE VOLTAGE

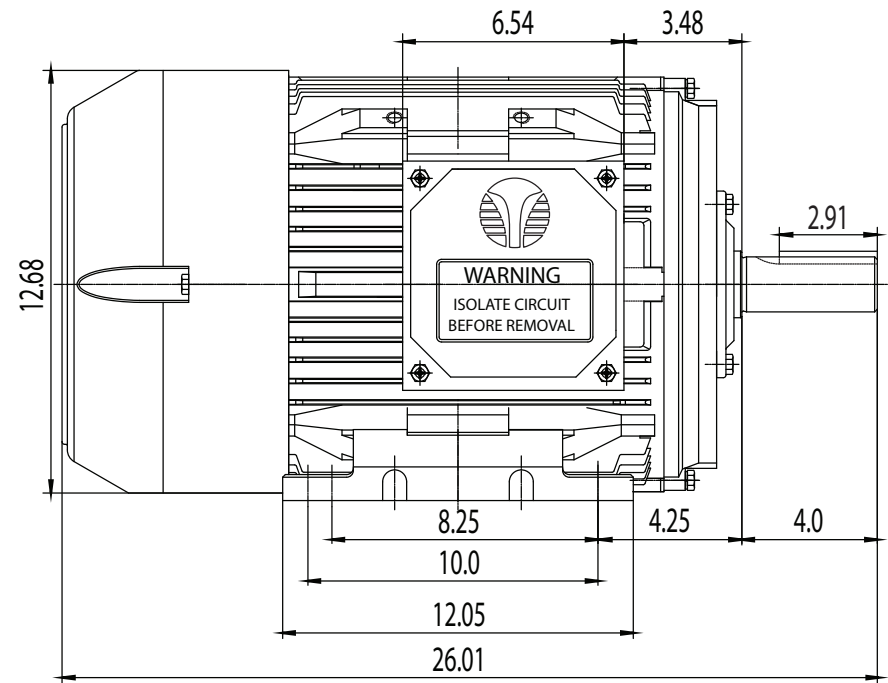
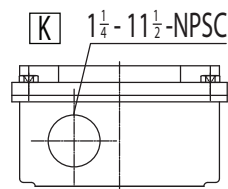
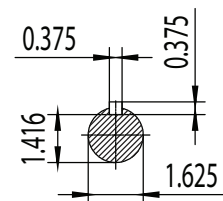
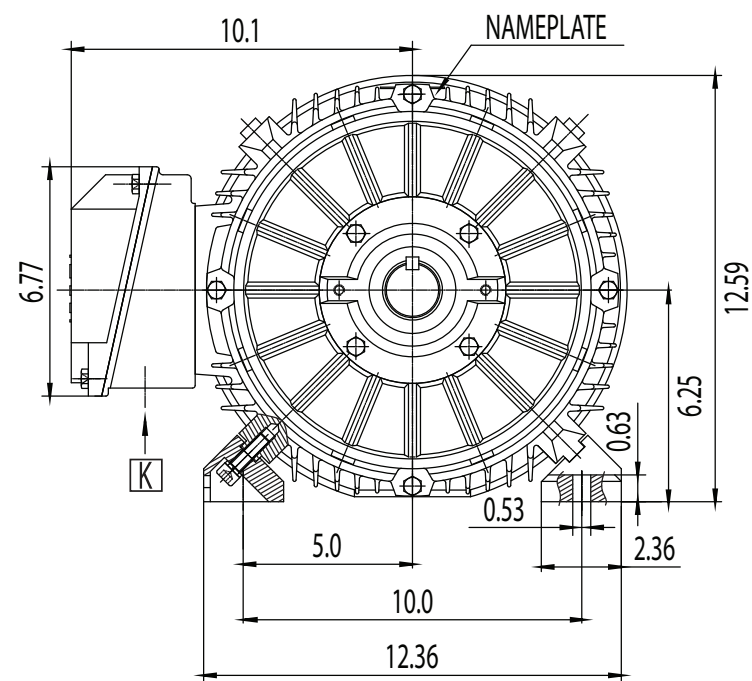
- NOTES:
- 1. CCW ROTATION FACING ODE FOR CONNECTIONS SHOWN
 - 2. TO REVERSE ROTATION, SWAP ANY TWO INPUT LINES
 - 3. WHEN MOTOR IS IN F1 POSITION, LEADS INDICATED WITH “*” EXIT THE CASING ABOVE THE CENTER LINE OF THE MOTOR, THE REMAINING LEADS EXIT BELOW THE CENTER LINE
 - 4. LEADS MUST BE NUMBERED 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	05/05/25
PREMIUM T-FRAME CAST IRON MOTORS	



NEMA Premium TEFC 256T

DRAWING NUMBER:

GR3-CI-TF-256T-CFC

DIMENSIONS:

Inches

MOUNTING:

Rigid

CASING MATERIAL:

Cast Iron

ISSUED DATE

05/05/25

PREMIUM T-FRAME CAST IRON MOTORS