

NEMA

Model GRC2002F
MFG PN: T447T 200U2B

Model GRC2002F

Product Data Package



MODEL	HP	RPM	VOLTAGE	PHASE	Hz	FRAME	MOUNT	ENCLOSURE
GRC2002F	200	3570	575	3	60	447TS	Rigid	TEFC

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Moncton

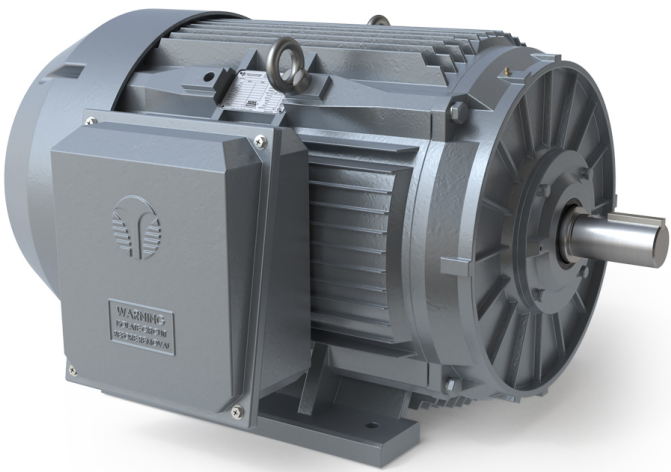
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Index

Motor General Data Sheet	P 2
Nameplate Information	P 3
Technical Performance Data	P 4
Motor General Wiring Diagram	P 5
Motor General Outline Drawing	P 6

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ELECTRICAL DATA		
Rated Motor Output Power	200	HP
	-	kW
Rated Motor Speed	3570	r/min 60Hz
	-	r/min 50Hz
Rated Motor Voltage (+/-10%)	575	V/60Hz
	-	V/50Hz
Rated Motor Current	170.69	A (I _n) @ 60Hz
	-	A (I _n) @ 50Hz
Phase	3	Ø
Locked Rotor Current @ High Voltage	1774.4	A (I _n) @ 60Hz
FI Current @ 208V	-	A (I _n) @ 60Hz
Service Factor	1.15	@ 60Hz
	1	@ 50Hz
KVA Code	K	60Hz
	-	50Hz
Nominal Efficiency	95.4	% @ 60Hz
Nominal Power Factor	0.9	cosΦ @ 60Hz
Leads (Qty, Size)	6	1
Connection	D	-
Coil Resistance	4.9	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	79.2	°C @ 60Hz
	-	°C @ 50Hz

GENERAL DATA		
Frame Size	447TS	
Enclosure	TEFC	
Mounting	Rigid	
Approximate Weight (lbs.)	1912.3 lbs.	
Casing Material / Fan Cover	Cast Iron	Cast Iron
Shaft Material	4140	
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	NO	YES
Paintwork	7024	
	Graphite Gray	
MECHANICAL DATA		
Bearing DE Side	6316 C3	
Bearing ODE Side	6316 C3	
Grease Type	Mobil Polyrex EM	
Compensation Ring (wavy washer)	NDE	
Moment of Inertia (lb-ft²)	30.71	
Sound Pressure @ 3 FT dBA	96.1	
SITE CONDITIONS		
Ambient Temperature (°C)	40	
Meters Above Sea Level (MASL)	1000	
HAZARDOUS LOCATIONS		
CSA Certified	A, B, C & D	
Temperature Code	T3A	-

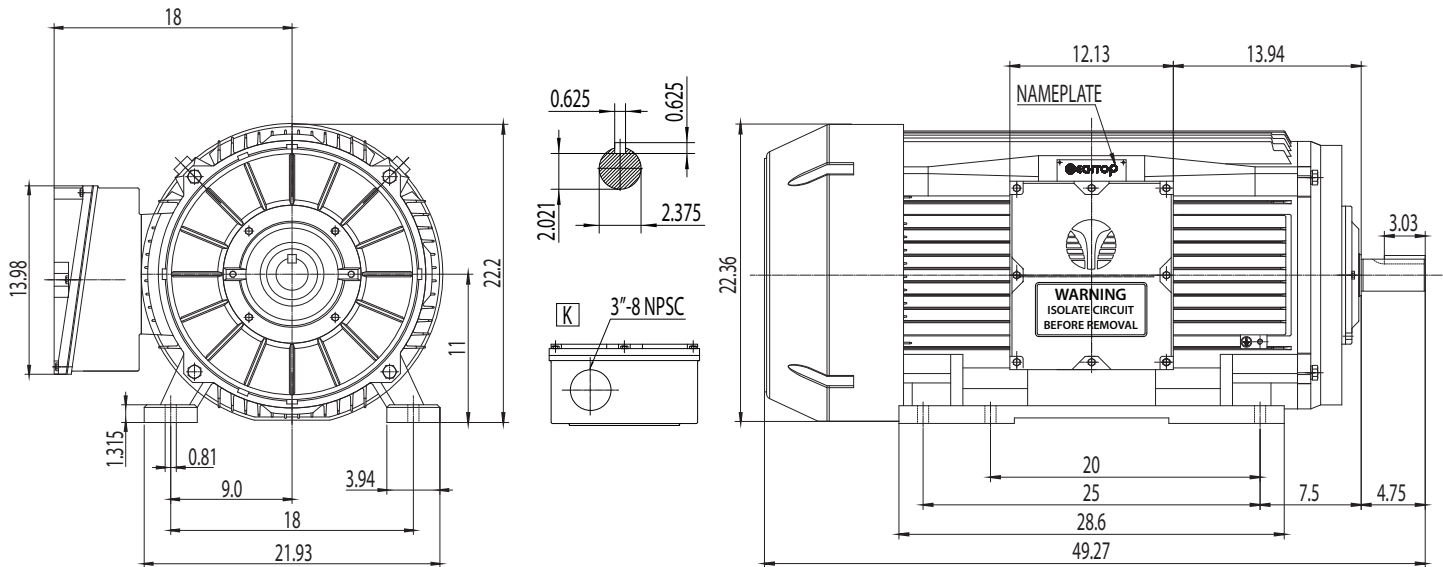
Questions? Call 1.888.286.1820

DATA SHEET: THREE-PHASE SQUIRREL CAGE MOTOR
PREMIUM T-FRAME CAST IRON MOTORS



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NAMEPLATE DATA	60Hz	50Hz
Horse Power	200	200
RPM	3570	-
Voltage	575	-
Full Load Amps	170.69	-
Service Factor	1.15	1
KVA Code	K	-
Full Load Amps (208V)	-	-
Nominal Efficiency	95.4	-
Nominal Power Factor	0.9	-
Design	A	
Frame	447TS	
Enclosure Type	TEFC	
IP Rating	55	
Duty	Cont. / S1	
Insulation Class	F	
Ambient Rating	40	
Drive End Bearing	6316 C3	
Opposite Drive End Bearing	6316 C3	
Weight (lbs)	1912.3	

NAMEPLATE LAYOUT

		INDUSTRIAL THREE PHASE MOTOR	
		INVERTER DUTY 15:1 CT 30:1 VT - 1.0 SF	
MODEL	TECHTOPCANADA.COM		
NEMA Premium	60Hz	50Hz	MFG PN
HP			MFG DATE
RPM			SER #
VOLT			DESIGN
FLA			FRAME
SF			ENCL
KVA CODE			IP
NOM.EFF			DUTY
BEARING SIZE		INS CL	
DE	ODE	AMB	
GREASE: MOBIL POLYREX EM		WEIGHT	
MADE IN CHINA CLASS 1, DIV 2, GROUPS A, B, C AND D		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

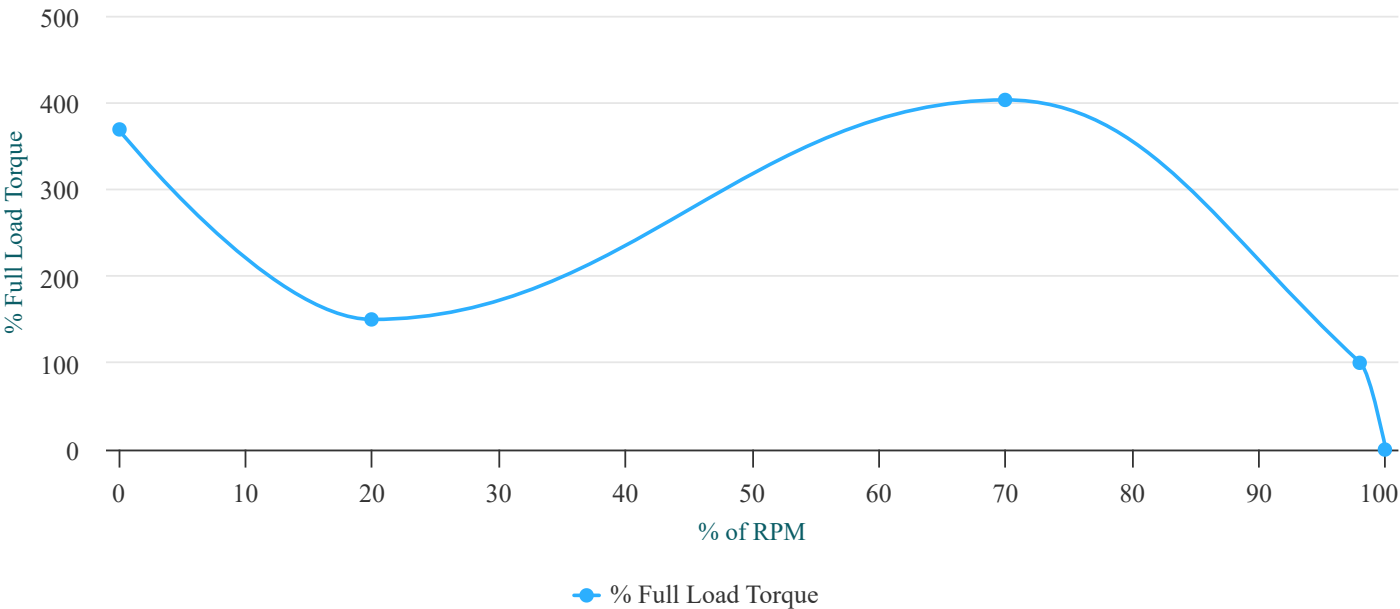
HAZARDOUS LOCATIONS	CSA CERTIFIED
Class / Division	Class I, Div. 2
Groups	A, B, C & D

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Torque Speed (T-n) Curve



PERFORMANCE LOAD VALUES, HIGH VOLTAGE, 60Hz

TORQUE VALUES	TORQUE (lb-ft)	TORQUE (% FULL LOAD)	PERFORMANCE VALUES	
Locked Rotor Torque	1085.7	369	Start Configuration	DOL
Pull-Up Torque	441.5	150	Starting Current (A)	1774.4
Breakdown Torque	1185.7	403	No-Load Current (A)	45
Full Load Torque	294.2	100	No-Load Power Factor	0.11

TYPICAL PERFORMANCE - NOT GUARANTEED VALUES

% OF RATED LOAD	25	50	75	100	125	S.F. 1.15
Line Amperes (A)	64.3	97.8	135.2	175.8	218.5	201.4
Efficiency (%)	88.3	93	94.4	94.8	94.7	94.8
Speed (r/min)	3595	3591	3586	3581	3576	3577
Power Factor (cosΦ)	0.66	0.83	0.89	0.9	0.91	0.91
Input Power (kW)	42.45	80.62	119.23	158.31	197.91	182.5

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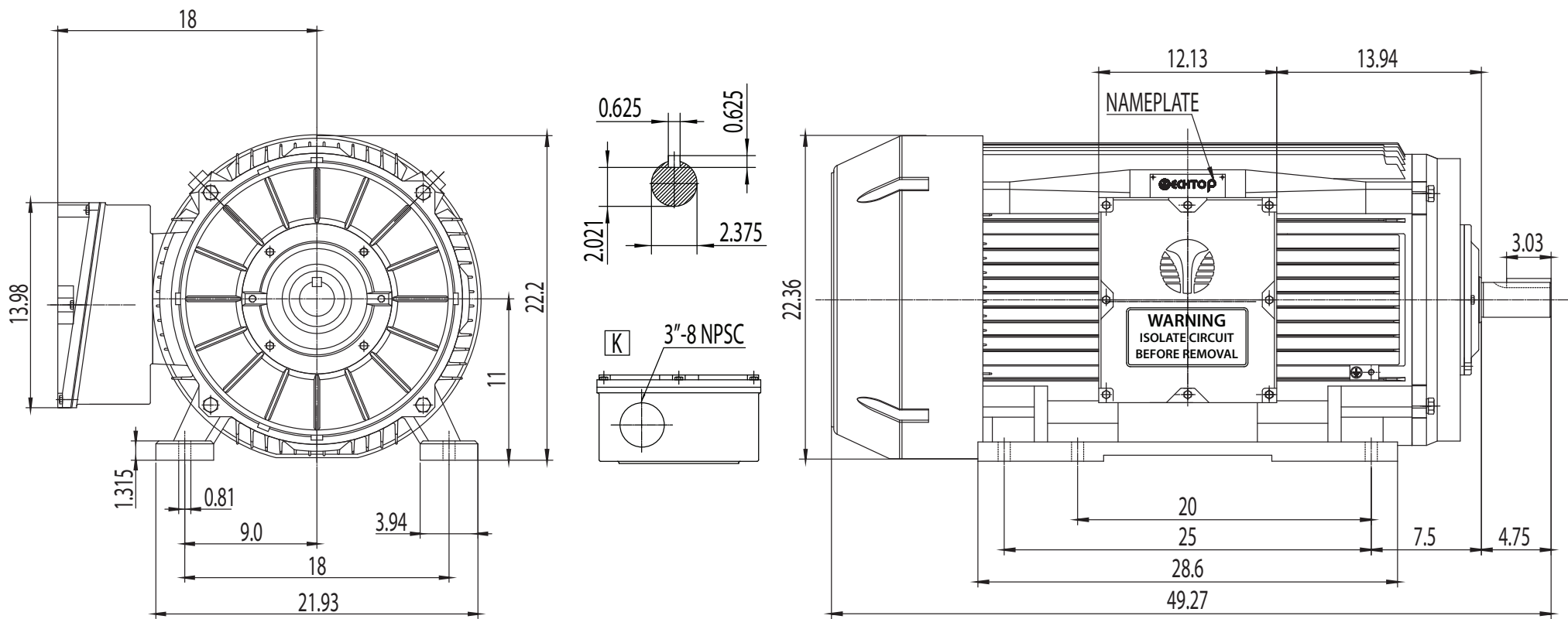
- NOTES:
- CCW ROTATION FACING ODE FOR CONNECTIONS SHOWN
 - TO REVERSE ROTATION, SWAP ANY TWO INPUT LINES
 - WHEN MOTOR IS IN F1 POSITION, LEADS INDICATED WITH “*” EXIT THE CASING ABOVE THE CENTER LINE OF THE MOTOR, THE REMAINING LEADS EXIT BELOW THE CENTER LINE
 - LEADS MUST BE NUMBERED AND COLORED AS SHOWN
 - 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	06/06/25
PREMIUM T-FRAME CAST IRON MOTORS	



NEMA Premium TEFC 447TS

DRAWING NUMBER:	GR3-CI-TF-447(9)TS-CFC	ISSUED DATE	06/06/25
DIMENSIONS:	Inches	PREMIUM T-FRAME CAST IRON MOTORS	
MOUNTING:	Rigid		
CASING MATERIAL:	Cast Iron		