

NEMA

Model GRC0072F-TD
MFG PN: T213T7.5U2B

Model GRC0072F-TD

Product Data Package



MODEL	HP	RPM	VOLTAGE	PHASE	Hz	FRAME	MOUNT	ENCLOSURE
GRC0072F-TD	7.5	3520	575	3	60	213TD	Rigid/D-Flange	TEFC

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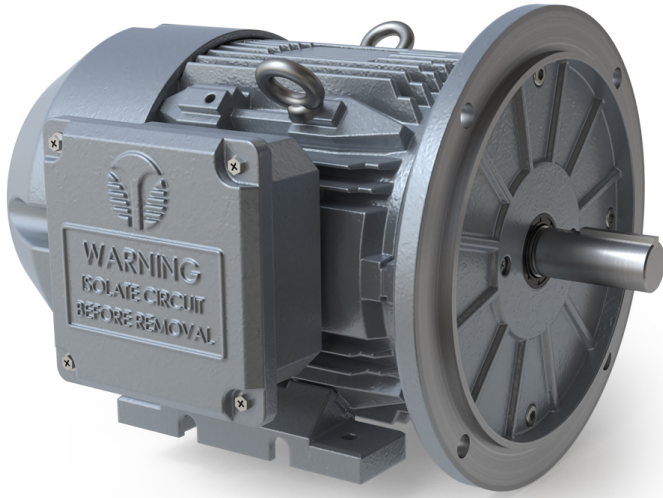
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Index

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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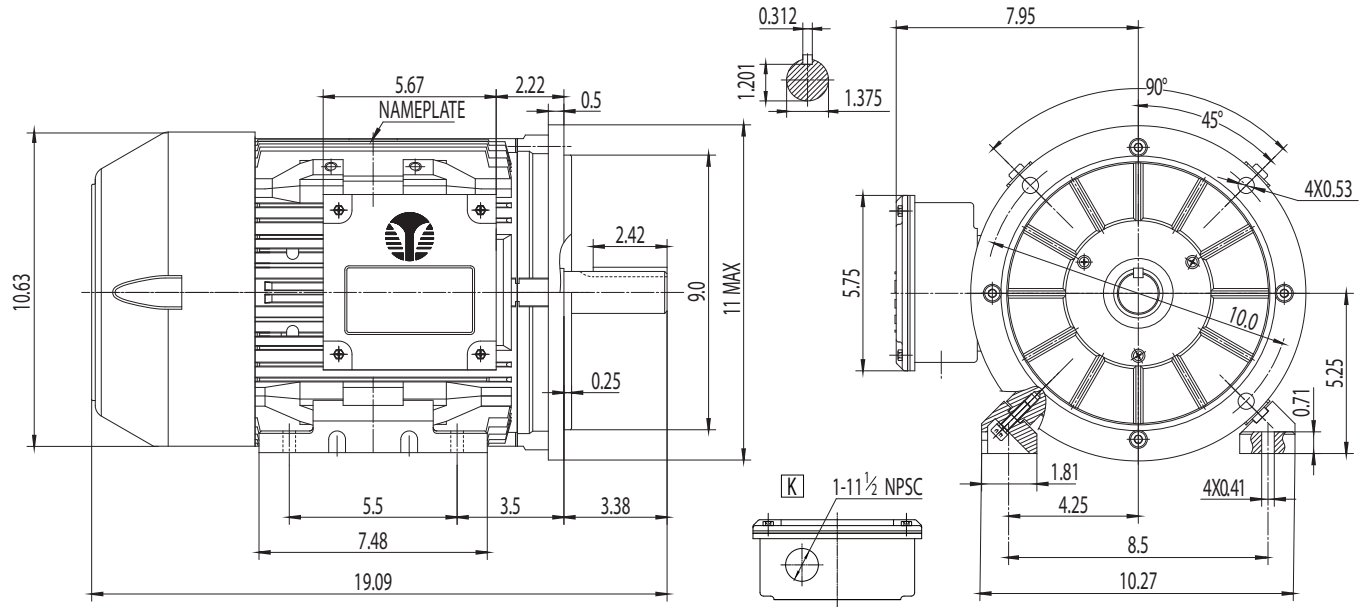
ELECTRICAL DATA		
Rated Motor Output Power	7.5	HP
	-	kW
Rated Motor Speed	3520	r/min 60Hz
	-	r/min 50Hz
Rated Motor Voltage (+/-10%)	575	V/60Hz
	-	V/50Hz
Rated Motor Current	6.98	A (I _n) @ 60Hz
	-	A (I _n) @ 50Hz
Phase	3	Ø
Locked Rotor Current @ High Voltage	58.42	A (I _n) @ 60Hz
FI Current @ 208V	-	A (I _n) @ 60Hz
Service Factor	1.25	@ 60Hz
	1	@ 50Hz
KVA Code	J	60Hz
	-	50Hz
Nominal Efficiency	89.5	% @ 60Hz
Nominal Power Factor	0.9	cosΦ @ 60Hz
Leads (Qty, Size)	3	14
Connection	Y	-
Coil Resistance	1.666	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	51.5	°C @ 60Hz
	73.9	°C @ 50Hz

GENERAL DATA		
Frame Size	213TD	
Enclosure	TEFC	
Mounting	Rigid/D-Flange	
Approximate Weight (lbs.)	149.8 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	NO
Paintwork	7024	
	Graphite Gray	
MECHANICAL DATA		
Bearing DE Side	6308 ZZ	
Bearing ODE Side	6308 ZZ	
Grease Type	Mobil Polyrex EM	
Compensation Ring (wavy washer)	NDE	
Moment of Inertia (lb-ft²)	0.35	
Sound Pressure @ 3 FT dBA	82.8	
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	7.5	7.5
RPM	3520	-
Voltage	575	-
Full Load Amps	6.98	-
Service Factor	1.25	1
KVA Code	J	-
Full Load Amps (208V)	-	-
Nominal Efficiency	89.5	-
Nominal Power Factor	0.9	-
Design	A	
Frame	213TD	
Enclosure Type	TEFC	
IP Rating	55	
Duty	Cont. / S1	
Insulation Class	F	
Ambient Rating	40	
Drive End Bearing	6308 ZZ	
Opposite Drive End Bearing	6308 ZZ	
Weight (lbs)	149.8	

NAMEPLATE LAYOUT

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

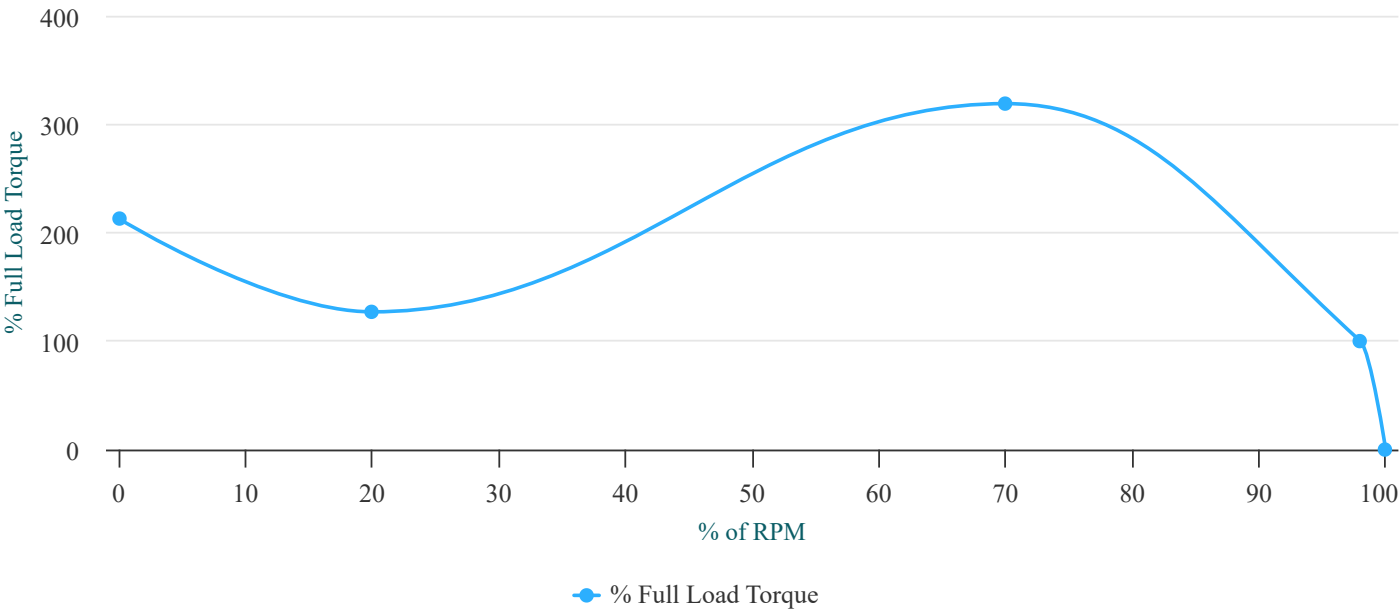
HAZARDOUS LOCATIONS	CSA CERTIFIED
Class / Division	Class I, Div. 2
Groups	A, B, C & D

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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	23.8	213	Start Configuration	DOL
Pull-Up Torque	14.2	127	Starting Current (A)	58.42
Breakdown Torque	35.7	319	No-Load Current (A)	1.9
Full Load Torque	11.2	100	No-Load Power Factor	0.15

TYPICAL PERFORMANCE - NOT GUARANTEED VALUES

% OF RATED LOAD	25	50	75	100	125	S.F. 1.25
Line Amperes (A)	2.5	3.8	5.2	6.8	8.5	8.5
Efficiency (%)	81.9	88	89.3	89.1	88.2	88.2
Speed (r/min)	3581	3564	3544	3523	3500	3500
Power Factor (cosΦ)	0.67	0.83	0.89	0.92	0.92	0.92
Input Power (kW)	1.68	3.13	4.62	6.17	7.8	7.8

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Model **GRC0072F-TD**
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Wire	Color
T1	Blue
T2	White
T3	Orange

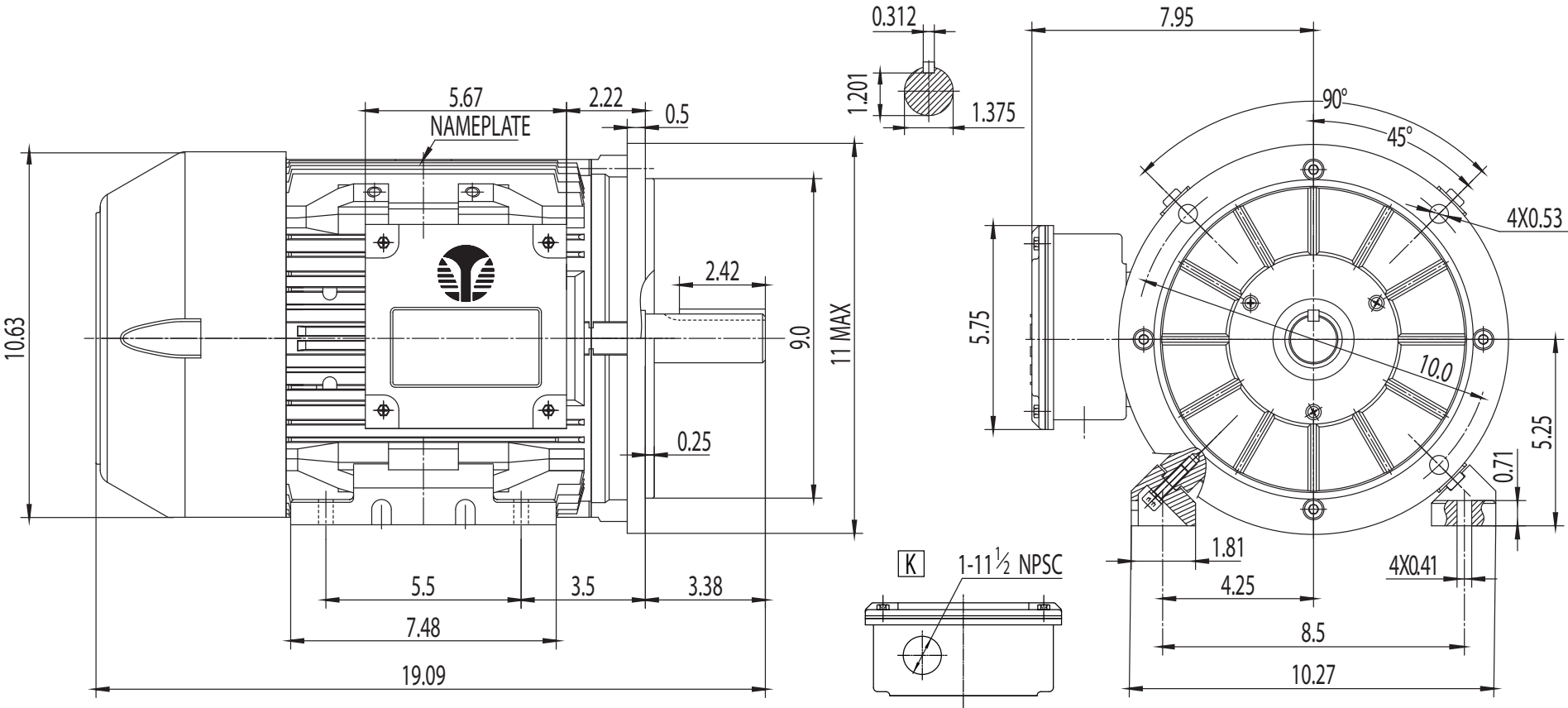
- NOTES:
- 1. CCW ROTATION FACING ODE FOR CONNECTIONS SHOWN
 - 2. TO REVERSE ROTATION, SWAP ANY TWO INPUT LINES
 - 3. WHEN MOTOR IS IN F1 POSITION, LEADS INDICATED WITH “*” EXIT THE CASING ABOVE THE CENTER LINE OF THE MOTOR, THE REMAINING LEADS EXIT BELOW THE CENTER LINE
 - 4. LEADS MUST BE NUMBERED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



NEMA Premium TEFC 213TD

DRAWING NUMBER:	GR3-CI-TF-213TD-CFC	ISSUED DATE	05/05/25
DIMENSIONS:	Inches		
MOUNTING:	Rigid/D-Flange		
CASING MATERIAL:	Cast Iron		
			PREMIUM T-FRAME CAST IRON MOTORS