

NEMA

Model GRC0104D-TD
MFG PN: T215T10U4B

Model GRC0104D-TD

Product Data Package



MODEL	HP	RPM	VOLTAGE	PHASE	Hz	FRAME	MOUNT	ENCLOSURE
GRC0104D-TD	10	1750	230/460	3	60	215TD	Rigid/D-Flange	TEFC

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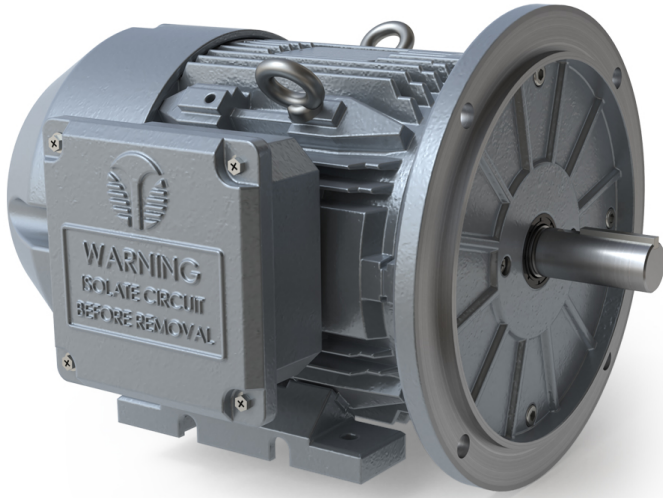
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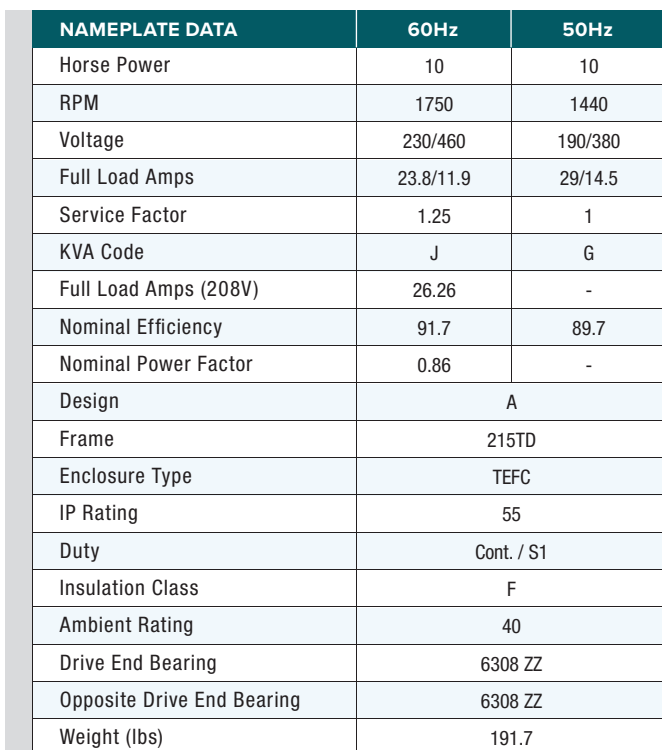
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ELECTRICAL DATA		
Rated Motor Output Power	10	HP
	-	kW
Rated Motor Speed	1750	r/min 60Hz
	1440	r/min 50Hz
Rated Motor Voltage (+/-10%)	230/460	V/60Hz
	190/380	V/50Hz
Rated Motor Current	23.8/11.9	A (I _n) @ 60Hz
	29/14.5	A (I _n) @ 50Hz
Phase	3	Ø
Locked Rotor Current @ High Voltage	93.82	A (I _n) @ 60Hz
FI Current @ 208V	26.26	A (I _n) @ 60Hz
Service Factor	1.25	@ 60Hz
	1	@ 50Hz
KVA Code	J	60Hz
	G	50Hz
Nominal Efficiency	91.7	% @ 60Hz
Nominal Power Factor	0.86	cosΦ @ 60Hz
Leads (Qty, Size)	9	14
Connection	YY/Y	-
Coil Resistance	1.015	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	51.3	°C @ 60Hz
	-	°C @ 50Hz

GENERAL DATA		
Frame Size	215TD	
Enclosure	TEFC	
Mounting	Rigid/D-Flange	
Approximate Weight (lbs.)	191.7 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)	1.15	
Sound Pressure @ 3 FT dBA	-	
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

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TECHTOP		INDUSTRIAL THREE PHASE MOTOR INVERTER DUTY 15:1 CT 30:1 VT - 1.0 SF	
MODEL		TECHTOPCANADA.COM	
NEMA Premium	208V 60Hz	208V 50Hz	MFG PN
	HP		MFG DATE
	RPM		SER #
	VOLT		DESIGN
	FLA		FRAME
	SF		ENCL
	KVA CODE		IP
	NOM.EFF		DUTY
USABLE AT 208V 60Hz	BEARING SIZE		CC
DE	ODE		
FLA	GREASE: MOBIL POLYREX EM		UL E323353
MADE IN CHINA	CLASS 1, DIV 2, GROUPS A, B, C AND D	INCL CS	SP E324693
		AMB	US
		WEIGHT	lbs
			Energy Efficient Only
			IEEE 45 MARINE DUTY

VFD DUTY (S.F. 1.0)	RATIO	H _z *
Variable Torque	30:1	2 - 60
Constant Torque	15:1	4 - 60

*For max speed please contact Techtop Canada

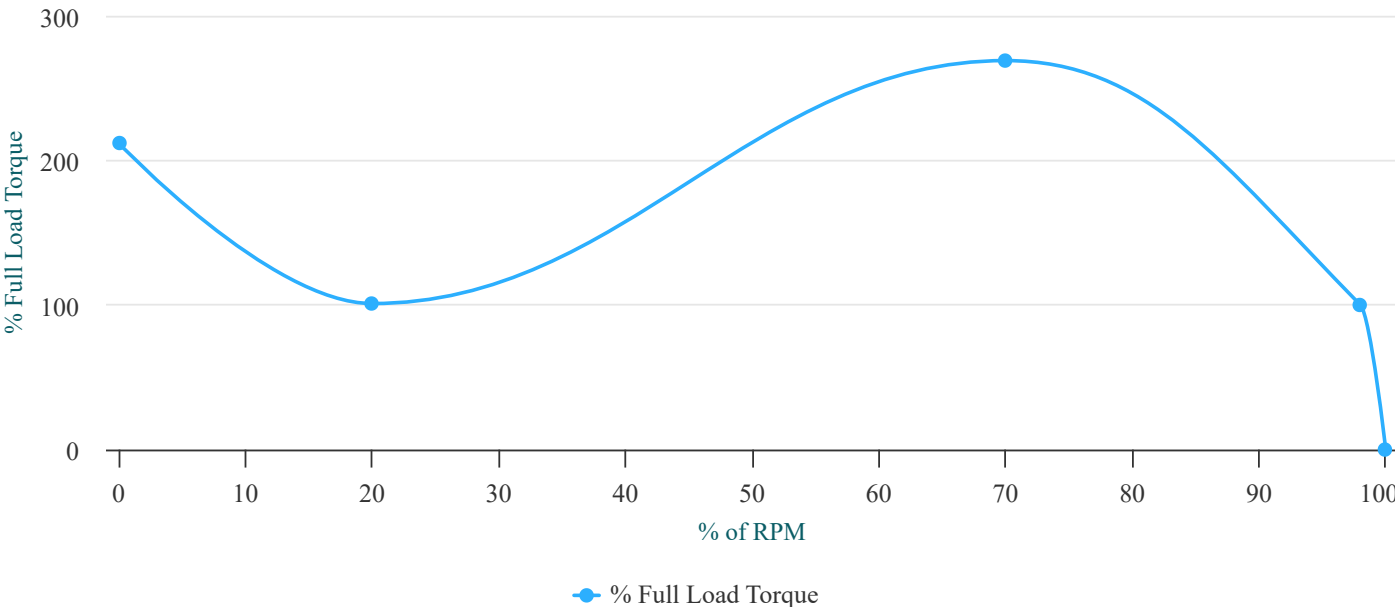
HAZARDOUS LOCATIONS	CSA CERTIFIED
Class / Division	Class I, Div. 2
Groups	A, B, C & D

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Torque Speed (T-n) Curve



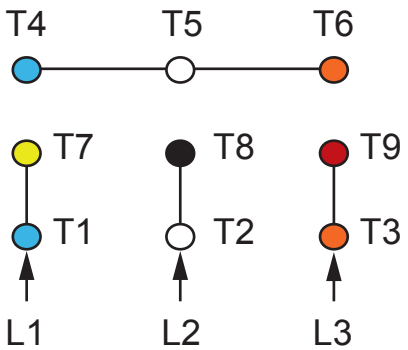
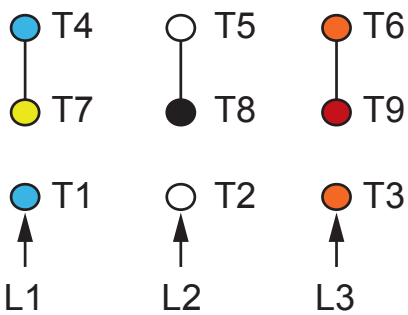
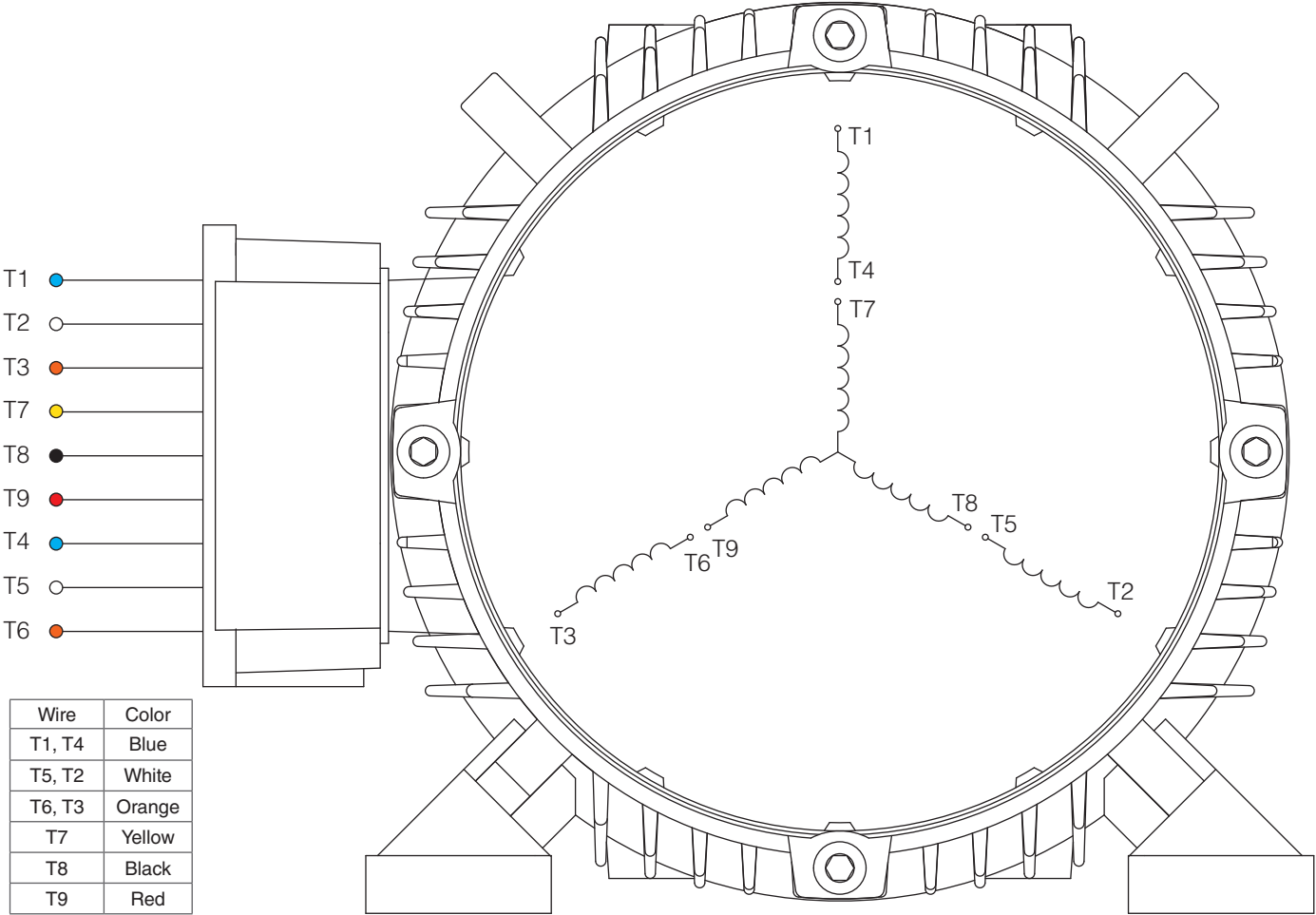
PERFORMANCE LOAD VALUES, HIGH VOLTAGE, 60Hz

TORQUE VALUES	TORQUE (lb-ft)	TORQUE (% FULL LOAD)	PERFORMANCE VALUES	
Locked Rotor Torque	63.6	212	Start Configuration	DOL
Pull-Up Torque	30.3	101	Starting Current (A)	93.82
Breakdown Torque	80.7	269	No-Load Current (A)	3.7
Full Load Torque	30	100	No-Load Power Factor	0.06

TYPICAL PERFORMANCE - NOT GUARANTEED VALUES

% OF RATED LOAD	25	50	75	100	125	S.F. 1.25
Line Amperes (A)	4.5	6.5	8.9	11.8	14.9	14.9
Efficiency (%)	89.6	92.1	91.8	90.6	89	89
Speed (r/min)	1790	1779	1767	1754	1739	1739
Power Factor (cosΦ)	0.59	0.79	0.86	0.88	0.89	0.89
Input Power (kW)	2.09	4.07	6.13	8.28	10.54	10.54

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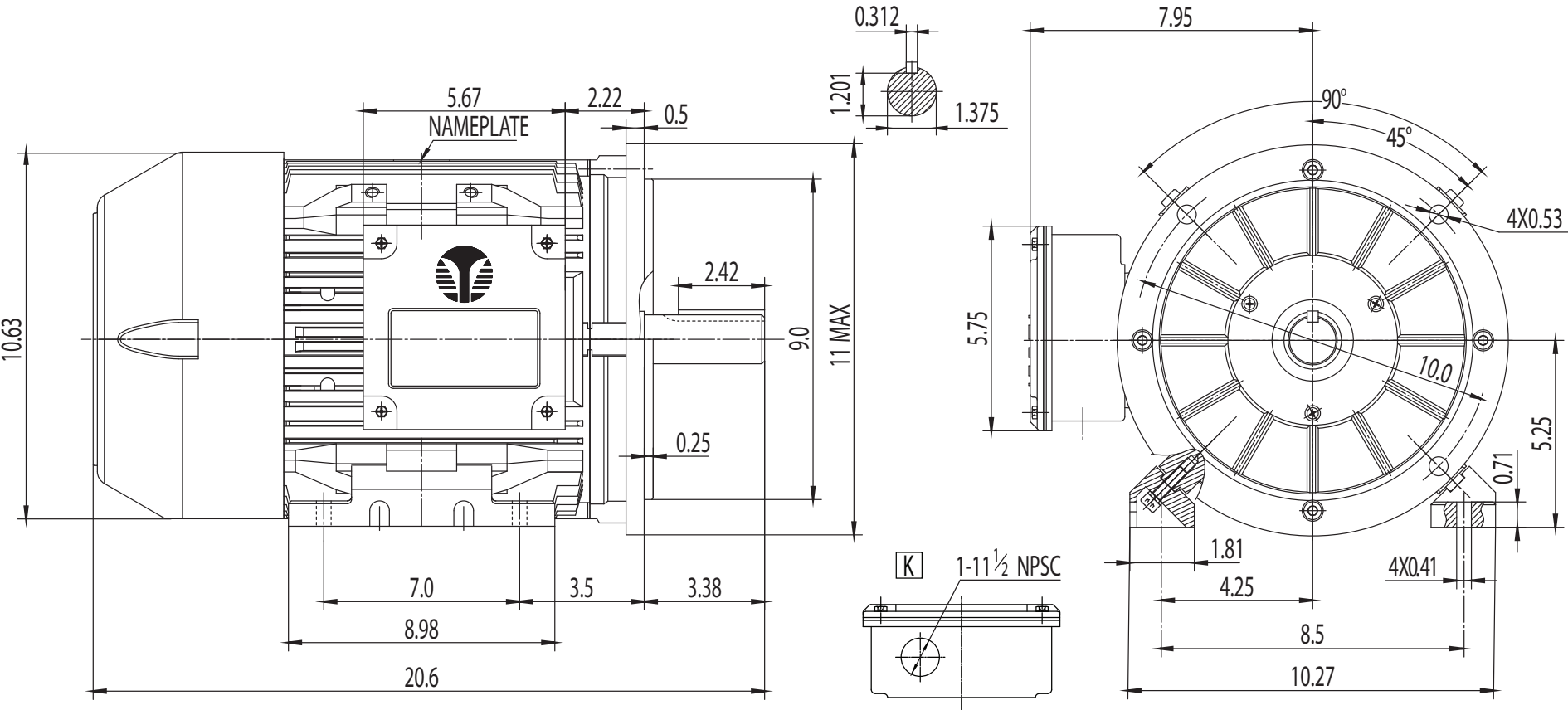
- NOTES:
- 1. CCW ROTATION FACING ODE FOR CONNECTIONS SHOWN
 - 2. TO REVERSE ROTATION, SWAP ANY TWO INPUT LINES
 - 3. WHEN MOTOR IS IN F1 POSITION, LEADS INDICATED WITH “*” EXIT THE CASING ABOVE THE CENTER LINE OF THE MOTOR, THE REMAINING LEADS EXIT BELOW THE CENTER LINE
 - 4. LEADS MUST BE NUMBERED AND COLORED AS SHOWN
 - 5. DIAGRAMS FOR REFERENCE ONLY



DRAWING NUMBER:	NEMA-3-9-YY-Y
CONNECTION:	YY/Y
NUMBER OF LEADS:	9
THERMAL PROTECTION:	-

NEMA 3Ø YY/Y 9-Lead Dual Voltage

ISSUED DATE	05/05/25
PREMIUM T-FRAME CAST IRON MOTORS	



NEMA Premium TEFC 215TD

DRAWING NUMBER:	GR3-CI-TF-215TD-CFC	ISSUED DATE	05/05/25
DIMENSIONS:	Inches	PREMIUM T-FRAME CAST IRON MOTORS	
MOUNTING:	Rigid/D-Flange		
CASING MATERIAL:	Cast Iron		