

NEMA

Model **GRA0102D-TD-01**
MFG PN: T215T10U2B

Model **GRA0102D-TD-01**

Product Data Package



MODEL	HP	RPM	VOLTAGE	PHASE	Hz	FRAME	MOUNT	ENCLOSURE
GRA0102D-TD-01	10	3520	230/460	3	60	215TD	Rigid/D-Flange	TEFC

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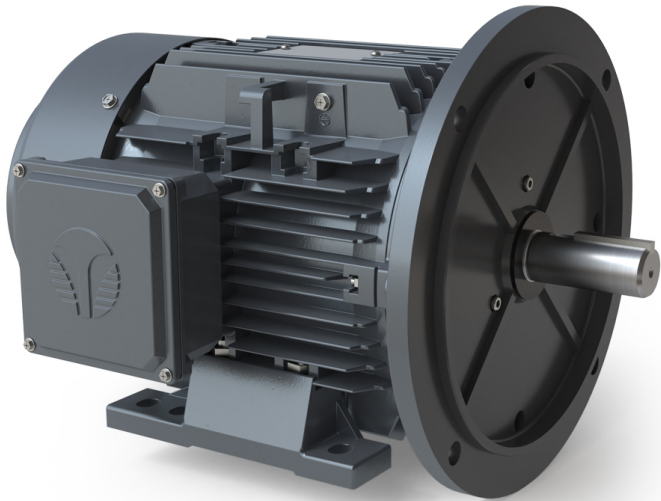
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Index

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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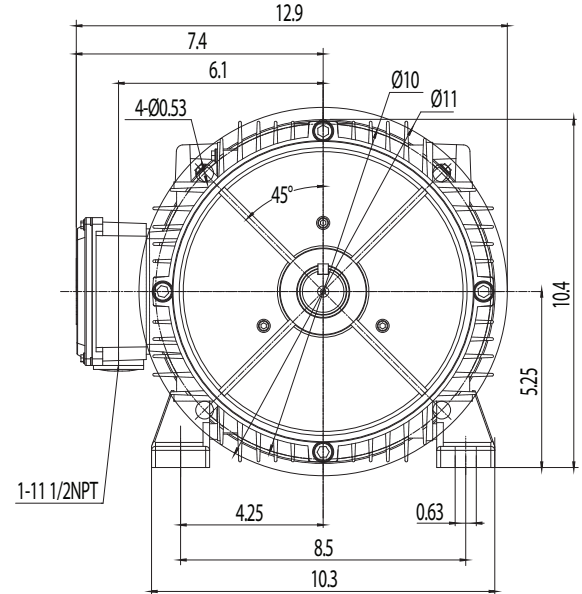
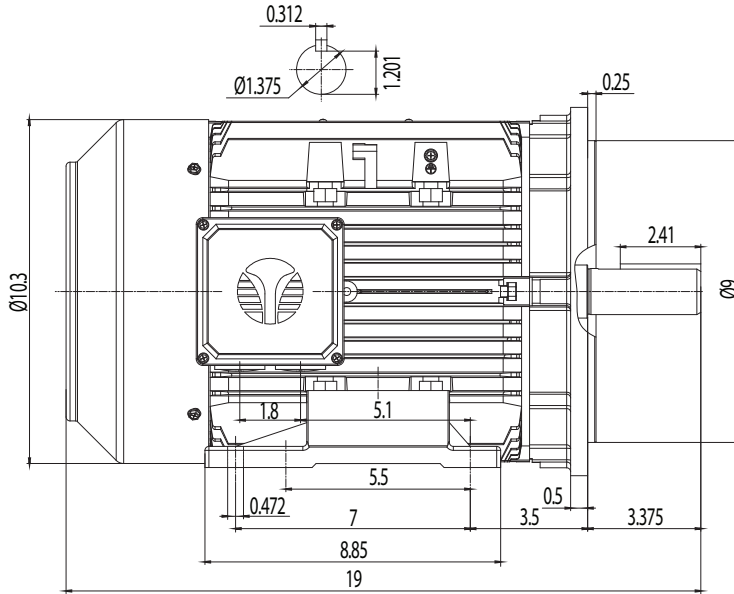
ELECTRICAL DATA		
Rated Motor Output Power	10	HP
	-	kW
Rated Motor Speed	3520	r/min 60Hz
	2910	r/min 50Hz
Rated Motor Voltage (+/-10%)	230/460	V/60Hz
	190/380	V/50Hz
Rated Motor Current	22.6/11.3	A (I _n) @ 60Hz
	26.6/13.3	A (I _n) @ 50Hz
Phase	3	Ø
Locked Rotor Current @ High Voltage	106.37	A (I _n) @ 60Hz
FI Current @ 208V	25.8	A (I _n) @ 60Hz
Service Factor	1.25	@ 60Hz
	1	@ 50Hz
KVA Code	L	60Hz
	H	50Hz
Nominal Efficiency	90.2	% @ 60Hz
Nominal Power Factor	0.92	cosΦ @ 60Hz
Leads (Qty, Size)	9	14
Connection	YY/Y	-
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	50	°C @ 60Hz
	73	°C @ 50Hz

GENERAL DATA		
Frame Size	215TD	
Enclosure	TEFC	
Mounting	Rigid/D-Flange	
Approximate Weight (lbs.)	115 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	6308 ZZ	
Bearing ODE Side	6208 ZZ	
Grease Type	Mobil Polyrex EM	
Compensation Ring (wavy washer)	NDE	
Moment of Inertia (lb-ft²)	-	
Sound Pressure @ 3 FT dBA	71.4	
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	10	10
RPM	3520	2910
Voltage	230/460	190/380
Full Load Amps	22.6/11.3	26.6/13.3
Service Factor	1.25	1
KVA Code	L	H
Full Load Amps (208V)	25.8	-
Nominal Efficiency	90.2	89.5
Nominal Power Factor	0.92	-
Design	A	
Frame	215TD	
Enclosure Type	TEFC	
IP Rating	55	
Duty	Cont. / S1	
Insulation Class	F	
Ambient Rating	40	
Drive End Bearing	6308 ZZ	
Opposite Drive End Bearing	6208 ZZ	
Weight (lbs)	115	

NAMEPLATE LAYOUT

TECHTOP		INDUSTRIAL THREE PHASE MOTOR INVERTER DUTY 15:1 CT 30:1 VT - 1.0 SF	
MODEL		MFG PN	
60Hz		50Hz	
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	
NEMA Premium® TECHTOPCANADA.COM		WEIGHT	lbs
CLASS 1, DIV 2, GROUPS A, B, C AND D		MADE IN CHINA	

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

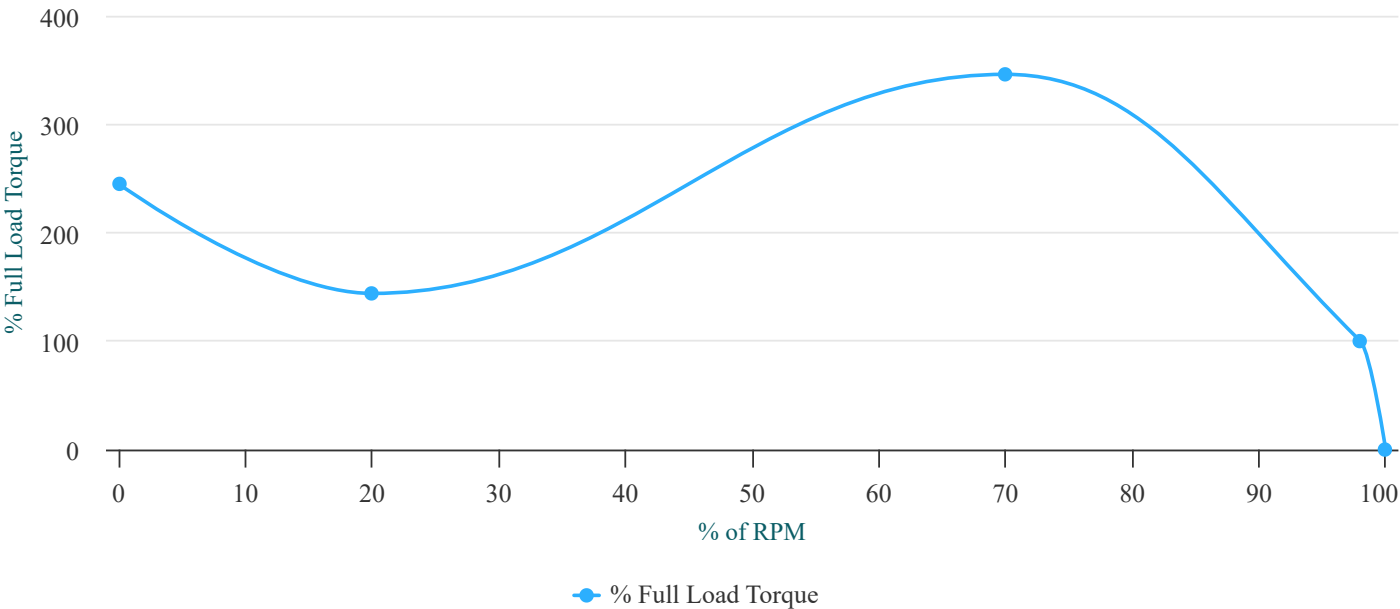
HAZARDOUS LOCATIONS	CSA CERTIFIED
Class / Division	Class I, Div. 2
Groups	A, B, C & D

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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	36.6	245	Start Configuration	DOL
Pull-Up Torque	21.5	144	Starting Current (A)	106.37
Breakdown Torque	51.6	346	No-Load Current (A)	3
Full Load Torque	14.9	100	No-Load Power Factor	0.12

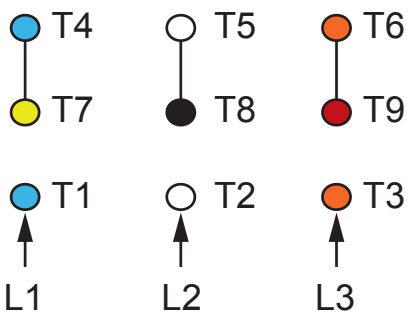
TYPICAL PERFORMANCE - NOT GUARANTEED VALUES

% OF RATED LOAD	25	50	75	100	125	S.F. 1.25
Line Amperes (A)	4	6.1	8.6	11.2	14.1	14.1
Efficiency (%)	85.8	90.5	91.4	91.2	90.4	90.4
Speed (r/min)	3577	3564	3549	3530	3508	3508
Power Factor (cosΦ)	0.69	0.85	0.9	0.92	0.93	0.93
Input Power (kW)	2.19	4.14	6.15	8.23	10.38	10.38

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HIGH VOLTAGE
(Y)



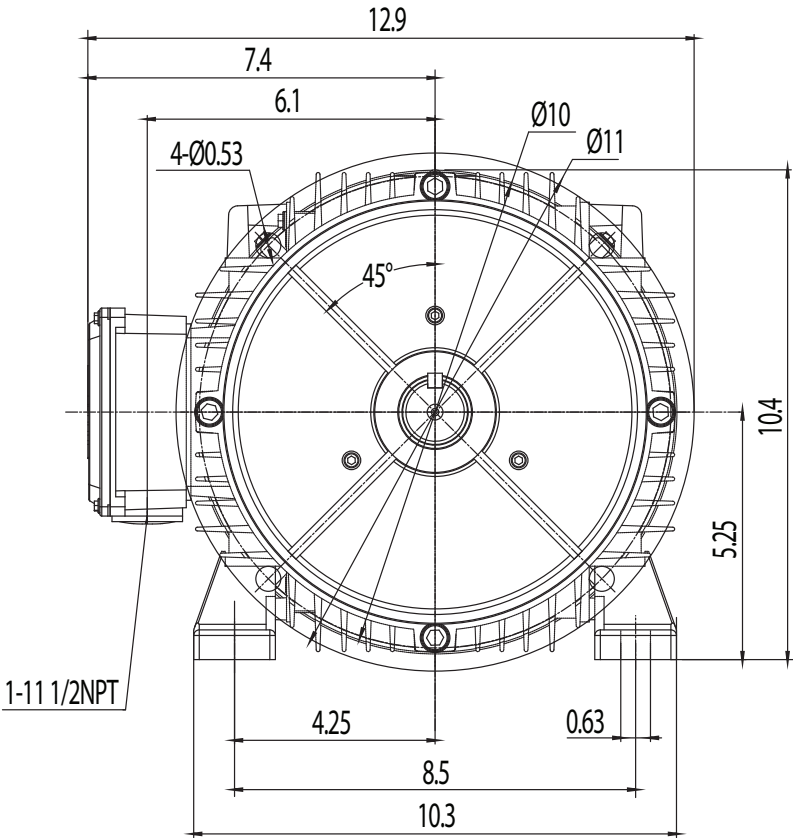
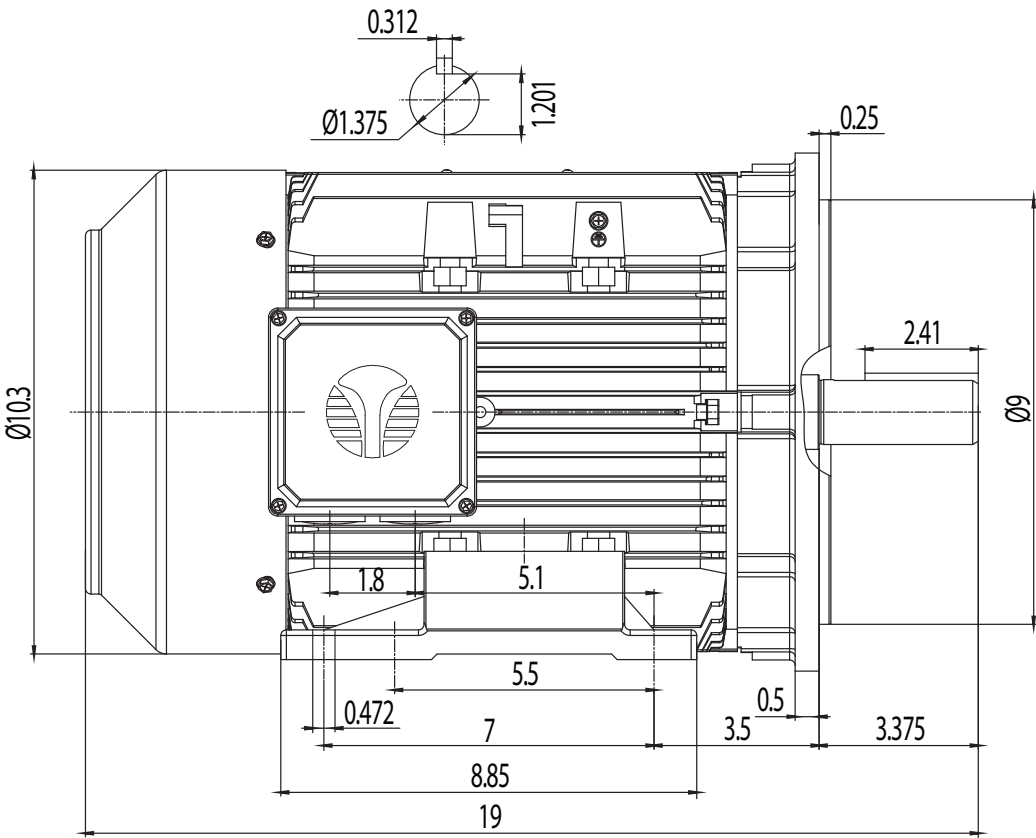
LOW VOLTAGE
(YY)

- 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



NEMA 3Ø YY/Y 9-Lead Dual Voltage

DRAWING NUMBER:	NEMA-3-9-YY-Y	ISSUED DATE	14/03/25
CONNECTION:	YY/Y	PREMIUM T-FRAME ALUMINUM MOTORS	
NUMBER OF LEADS:	9		
THERMAL PROTECTION:	-		



NEMA Premium TEFC 215TD

DRAWING NUMBER:	GR3-AL-TF-210TD-01	ISSUED DATE	14/03/25
DIMENSIONS:	Inches	PREMIUM T-FRAME ALUMINUM MOTORS	
MOUNTING:	Rigid/D-Flange		
CASING MATERIAL:	Cast Aluminum		