

NEMA

Model GRC0152D-TD
MFG PN: T254T15U2B

Model GRC0152D-TD

Product Data Package



MODEL	HP	RPM	VOLTAGE	PHASE	Hz	FRAME	MOUNT	ENCLOSURE
GRC0152D-TD	15	3550	230/460	3	60	254TD	Rigid/D-Flange	TEFC

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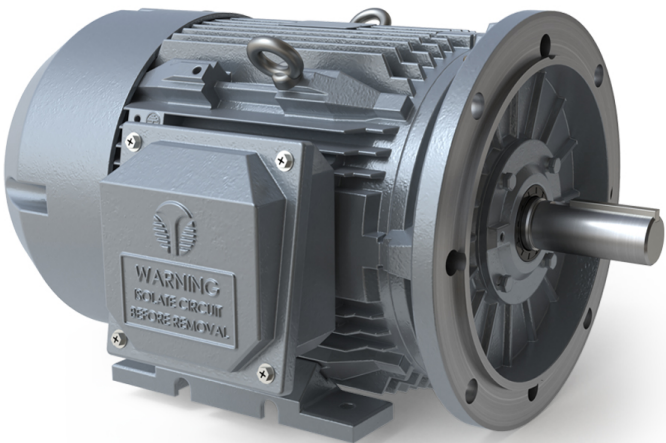
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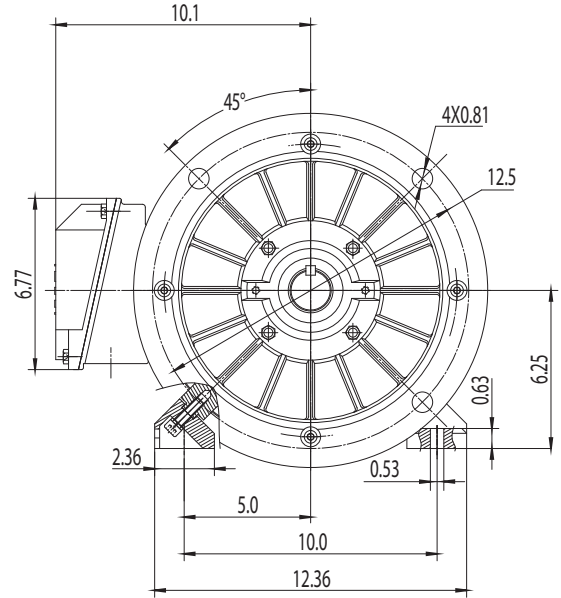
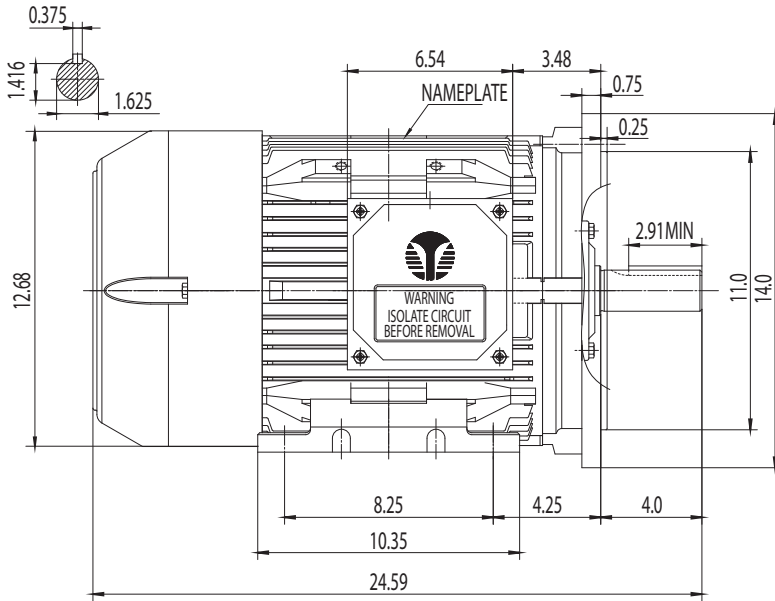
ELECTRICAL DATA		
Rated Motor Output Power	15	HP
	-	kW
Rated Motor Speed	3550	r/min 60Hz
	2945	r/min 50Hz
Rated Motor Voltage (+/-10%)	230/460	V/60Hz
	190/380	V/50Hz
Rated Motor Current	33.6/16.8	A (I _n) @ 60Hz
	40.4/20.2	A (I _n) @ 50Hz
Phase	3	Ø
Locked Rotor Current @ High Voltage	151.2	A (I _n) @ 60Hz
FI Current @ 208V	37.11	A (I _n) @ 60Hz
Service Factor	1.25	@ 60Hz
	1	@ 50Hz
KVA Code	K	60Hz
	G	50Hz
Nominal Efficiency	91	% @ 60Hz
Nominal Power Factor	0.92	cosΦ @ 60Hz
Leads (Qty, Size)	12	14
Connection	DD/D	-
Coil Resistance	0.488	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	56.8	°C @ 60Hz
	61.1	°C @ 50Hz

GENERAL DATA		
Frame Size	254TD	
Enclosure	TEFC	
Mounting	Rigid/D-Flange	
Approximate Weight (lbs.)	271.7 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	6309 C3	
Bearing ODE Side	6309 C3	
Grease Type	Mobil Polyrex EM	
Compensation Ring (wavy washer)	NDE	
Moment of Inertia (lb-ft²)	1.23	
Sound Pressure @ 3 FT dBA	85.6	
SITE CONDITIONS		
Ambient Temperature (°C)	40	
Meters Above Sea Level (MASL)	1000	
HAZARDOUS LOCATIONS		
CSA Certified	A, B, C & D	
Temperature Code	T3	-

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NAMEPLATE DATA	60Hz	50Hz
Horse Power	15	15
RPM	3550	2945
Voltage	230/460	190/380
Full Load Amps	33.6/16.8	40.4/20.2
Service Factor	1.25	1
KVA Code	K	G
Full Load Amps (208V)	37.11	-
Nominal Efficiency	91	90.3
Nominal Power Factor	0.92	-
Design	A	
Frame	254TD	
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)	271.7	

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	
USABLE AT 208V 60Hz		DUTY	
FLA		INS CL	
		AMB	
		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

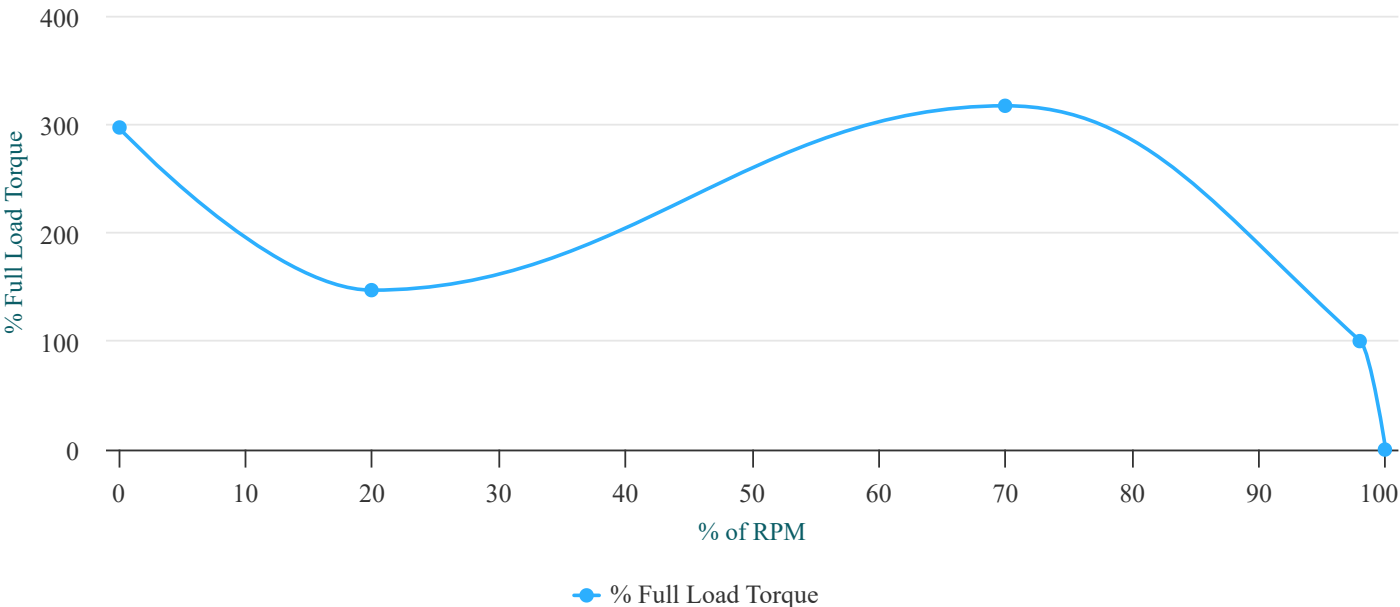
HAZARDOUS LOCATIONS	CSA CERTIFIED
Class / Division	Class I, Div. 2
Groups	A, B, C & D

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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	65.9	297	Start Configuration	DOL
Pull-Up Torque	32.6	147	Starting Current (A)	151.2
Breakdown Torque	70.3	317	No-Load Current (A)	7.6
Full Load Torque	22.2	100	No-Load Power Factor	0.1

TYPICAL PERFORMANCE - NOT GUARANTEED VALUES

% OF RATED LOAD	25	50	75	100	125	S.F. 1.25
Line Amperes (A)	6.3	9.4	12.9	16.7	20.8	20.8
Efficiency (%)	81.8	88.6	90.5	90.8	90.5	90.5
Speed (r/min)	3591	3581	3571	3559	3548	3548
Power Factor (cosΦ)	0.67	0.83	0.89	0.91	0.92	0.92
Input Power (kW)	3.36	6.21	9.12	12.11	15.19	15.19

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HIGH VOLTAGE
(Δ)



LOW VOLTAGE
(ΔΔ)

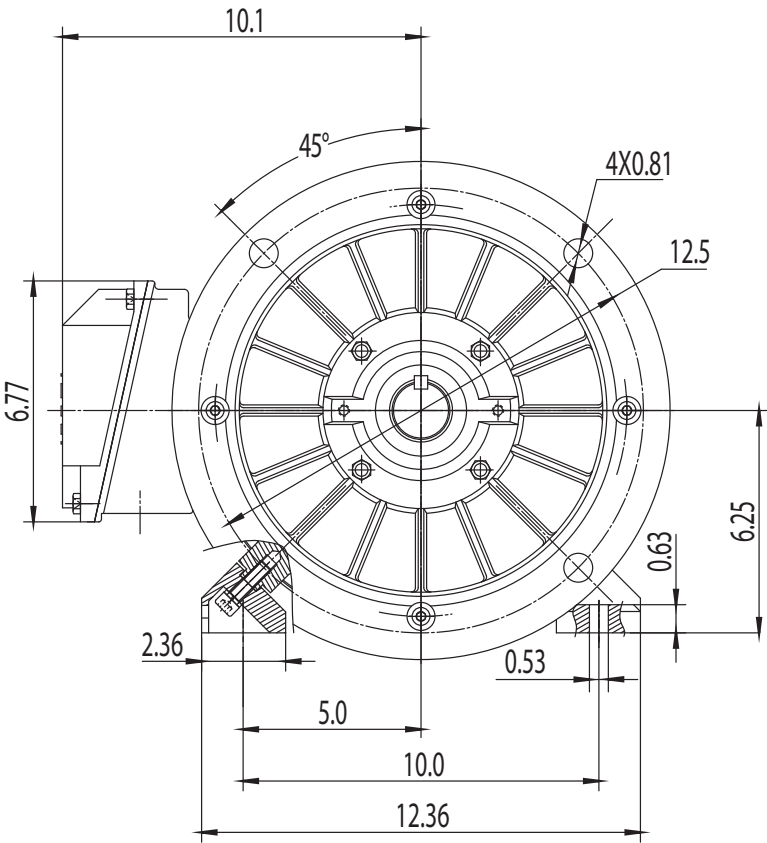
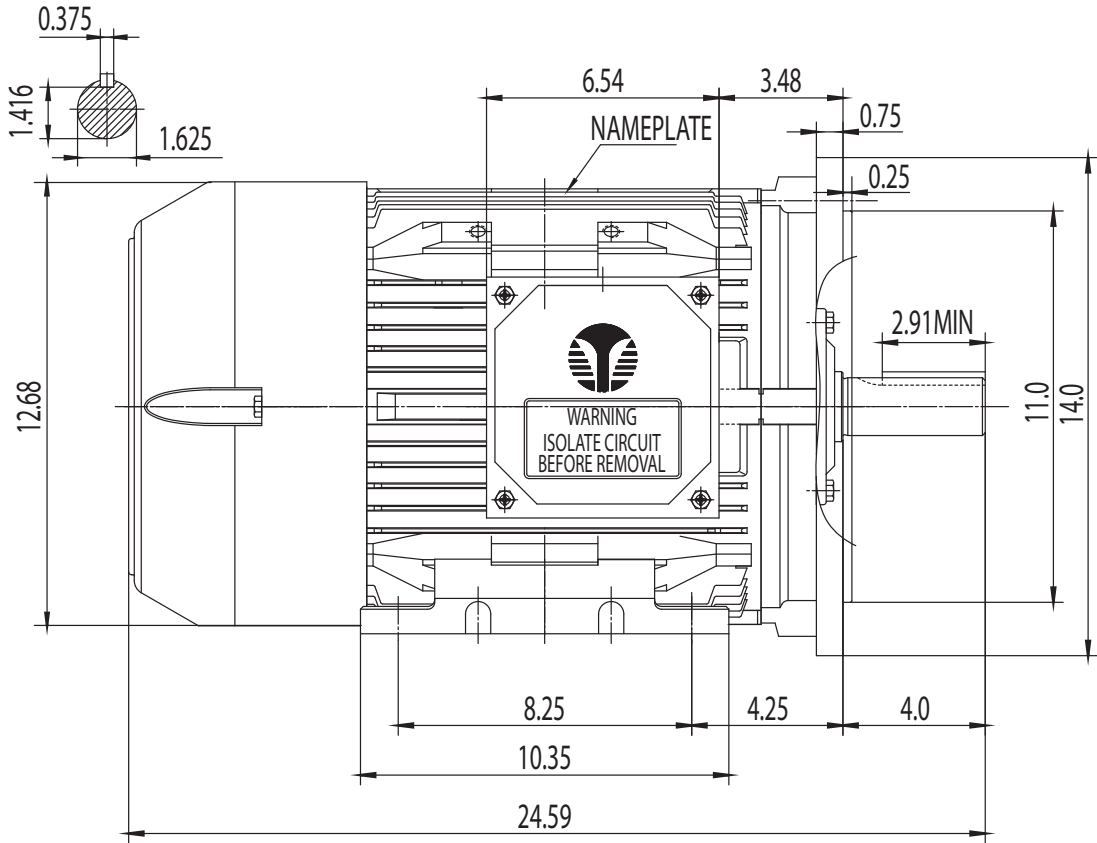
- NOTES:
- 1. CCW ROTATION FACING ODE FOR CONNECTIONS SHOWN
 - 2. TO REVERSE ROTATION, SWAP ANY TWO INPUT LINES
 - 3. WHEN MOTOR IS IN F1 POSITION, LEADS INDICATED WITH “*” EXIT THE CASING ABOVE THE CENTER LINE OF THE MOTOR, THE REMAINING LEADS EXIT BELOW THE CENTER LINE
 - 4. LEADS MUST BE NUMBERED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



DRAWING NUMBER:	NEMA-3-12-DD-D
CONNECTION:	DD/D
NUMBER OF LEADS:	12
THERMAL PROTECTION:	-

NEMA 3Ø DD/D 12-Lead Dual Voltage

ISSUED DATE	12/05/25
PREMIUM T-FRAME CAST IRON MOTORS	



NEMA Premium TEFC 254TD

DRAWING NUMBER:	GR3-CI-TF-254TD-CFC	ISSUED DATE	12/05/25
DIMENSIONS:	Inches	PREMIUM T-FRAME CAST IRON MOTORS	
MOUNTING:	Rigid/D-Flange		
CASING MATERIAL:	Cast Iron		