NEMA Premium

NEMA

MOTOR MODEL:	GR3-CI-TF-449TC-4-BR-E-250
FACTORY TYPE:	TXC

Premium NEMA Cast Iron, TEFC

ELECTRICAL DATA		
	60 Hz	50 Hz
Horsepower	250.0	250.0
Speed, RPM	1780	1480
Voltage	460	380
# Phase	3	
Full Load Amps	273.3979781	320
Power Factor	0.89	-
Nominal Efficiency	96.2	94.5
3/4 Load Efficiency	-	-
Service Factor	1.15	1.0
KVA Code	H	D
FL Amps. @ 208 V	-	-
LRC @ 60Hz HV	2972.2	-
Start Capacitor	-	
Start Capacitor V	-	
Run Capacitor	-	
Run Capacitor V	-	
Number of Leads	6	
Connection	D	
Coil Resistance	-	
Date Code	-	
Load	**Efficiency %**	**P.F.**
50%	95.88	0.82
75%	96.11	0.88
100%	95.85	0.9
FULL LOAD TEMPERATURE RISE		
FL Temp Rise °C	94.0	-
3D Image Link		
GR3-CI-TF-449TC-4-BR-E-250		

*This report valid for above Date Code and newer models, please contact Techtop for more info.

GENERAL DATA	
Frame Size	449TC
Frame Enclosure	TEFC
Mounting	Rigid/C-Flange
Insulation Class	F
Duty	Cont. / S1
NEMA Design	A
Frame Material	Cast Iron
Ingress Protection	55
Tropicalization	true
Cable Entry	2-NPT 3"
Feet Removable	-
Double Drilled	true
Paint Color	Graphite Gray
Paint RAL	7024
Weight lb	2288.79
MECHANICAL DATA	
DE Bearing	6319C3
NDE Bearing	6319C3
dB No-Load	-
Rotor Wk², Lb-Ft²	-
Comp Ring (wavey washer)	-

TORQUE VALUES	**Torque lb-ft**	**% FLT**
Locked Rotor Torque	2872.23	341.0
Pull-Up Torque	1179.21	140.0
Breakdown Torque	2922.77	347.0
Full Load Torque	842.296	100.0
SITE CONDITIONS		
Ambient Temp °C	40	
Altitude Above Sea Level m	1000	

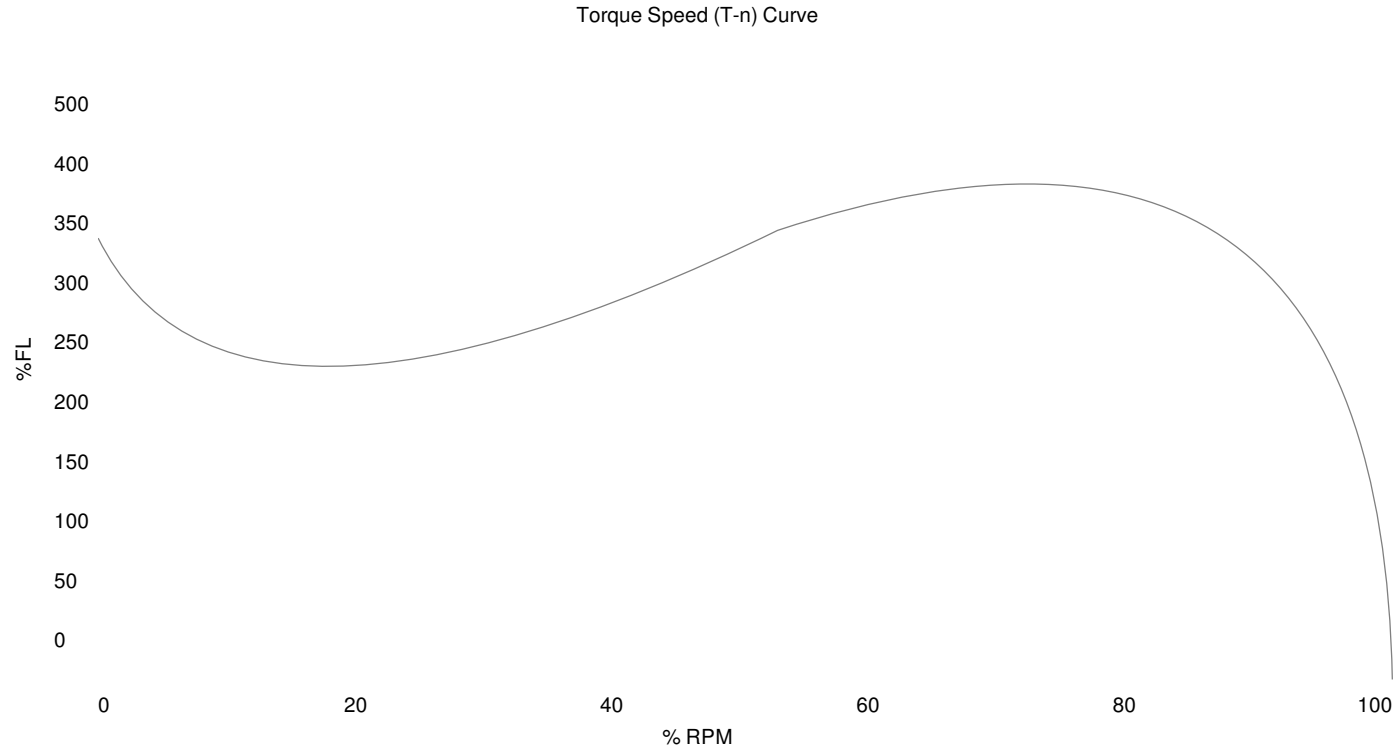
Techtop Industries
2815 Colonnades Court
Peachtree Corners, GA 30071
Tel: 678-436-5540
E-Mail: info@techtopind.com

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Performance Load Values, High Voltage, 60Hz

Torque Values	Torque lb-ft	% FLT	Performance Values	
Locked Rotor Torque	2872.23	341.0	Start Configuration	-
Pull-Up Torque	1179.21	140.0	Starting Current (A)	-
Breakdown Torque	2922.77	347.0	No-Load Current (A)	-
Full Load	842.296	100.0	No-Load Power Factor	-

% Load	Horsepower	Current, Amps	Input power, Kilowatts	Speed, RPM	Efficiency	PF
0	-	88.7	-	-	-	-
25	62.5	115.46	57.1	1796.8	93.91	0.62
50	125.0	172.17	111.86	1793.7	95.88	0.82
75	187.5	238.28	167.39	1790.5	96.11	0.88
100	250.0	310.89	223.78	1787.0	95.85	0.9
125	312.5	356.38	258.04	1784.9	95.6	0.91

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