



NEMA Premium

NEMA

MOTOR MODEL:	GR3-CI-TF-449T-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	-	-
Locked Rotor Current	2972.2	-
Start Capacitor	-	
Start Capacitor V	-	
Run Capacitor	-	
Run Capacitor V	-	
Number of Leads	6	
Connection	D	
Coil Resistance	-	
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-449T-4-BR-E-250		

GENERAL DATA			
Frame Size	449T		
Frame Enclosure	TEFC		
Mounting	Rigid		
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 Wk ² , Lb-Ft ²	-		
Comp Ring (wavey washer)	DE		
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		



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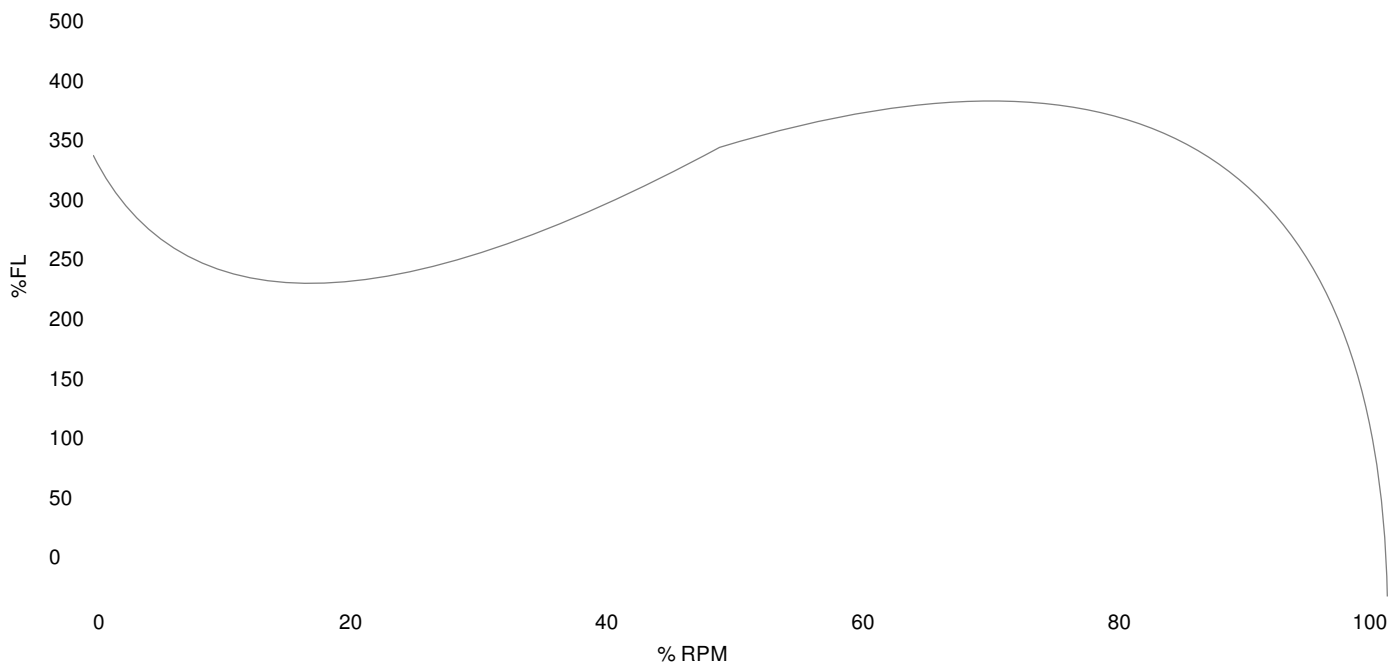
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Non Sinusoidal (VFD) Output 250.0HP, 1780 RPM

Torque Speed (T-n) Curve



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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