



NEMA Premium

NEMA

MOTOR MODEL:	GR3-CI-TF-449TSC-2-BR-E-250
FACTORY TYPE:	TXC

Premium NEMA Cast Iron, TEFC

ELECTRICAL DATA		
	60 Hz	50 Hz
Horsepower	250.0	250.0
Speed, RPM	3575	2965
Voltage	460	380
# Phase	3	
Full Load Amps	271.4890755	330
Power Factor	0.91	-
Nominal Efficiency	95.8	94.3
3/4 Load Efficiency	-	-
Service Factor	1.15	1.0
KVA Code	H	D
FL Amps. @ 208 V	-	-
Locked Rotor Current	4246.99	-
Start Capacitor	-	
Start Capacitor V	-	
Run Capacitor	-	
Run Capacitor V	-	
Number of Leads	6	
Connection	D	
Coil Resistance	-	
Load	Efficiency %	P.F.
50%	94.91	0.86
75%	95.51	0.91
100%	95.48	0.92
FULL LOAD TEMPERATURE RISE		
FL Temp Rise °C	107.0	-
3D Image Link		
Not available for this motor		

GENERAL DATA			
Frame Size	449TSC		
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	2024.19		
MECHANICAL DATA			
DE Bearing	6316C3		
NDE Bearing	6316C3		
dB No-Load	-		
Rotor Wk ² , Lb-Ft ²	-		
Comp Ring (wavy washer)	-		
TORQUE VALUES		Torque lb-ft	% FLT
Locked Rotor Torque	2011.6	480.0	
Pull-Up Torque	109800.0	262.0	
Breakdown Torque	1973.88	471.0	
Full Load Torque	419.083	100.0	
SITE CONDITIONS			
Ambient Temp °C	40		
Altitude Above Sea Level m	1000		



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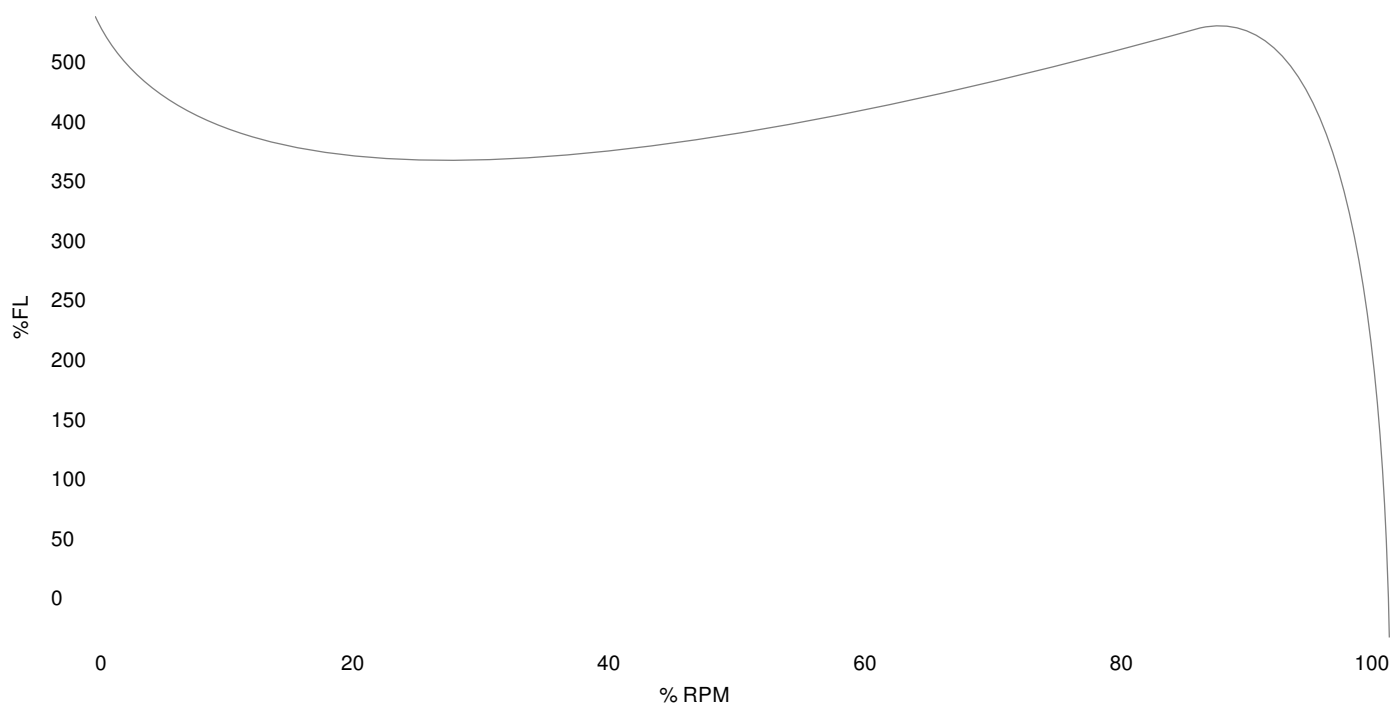
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FACTORY TYPE:	TXC

Premium NEMA Cast Iron, TEFC

Non Sinusoidal (VFD) Output 250.0HP, 3575 RPM

Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

Torque Values	Torque lb-ft	% FLT	Performance Values
Locked Rotor Torque	2011.6	480.0	Start Configuration
Pull-Up Torque	109800.0	262.0	Starting Current (A)
Breakdown Torque	1973.88	471.0	No-Load Current (A)
Full Load	419.083	100.0	No-Load Power Factor

% Load	Horsepower	Current, Amps	Input power, Kilowatts	Speed, RPM	Efficiency	PF
0	-	71.28	-	-	-	-
25	62.5	104.41	58.29	3594.5	91.99	0.7
50	125.0	164.8	113.0	3589.1	94.91	0.86
75	187.5	232.66	168.43	3583.5	95.51	0.91
100	250.0	305.08	224.66	3577.6	95.48	0.92
125	312.5	349.51	258.79	3574.0	95.32	0.93

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