



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	-	
Date Code	-	
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		
GR3-CI-TF-449TSC-2-BR-E-250		

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			

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

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



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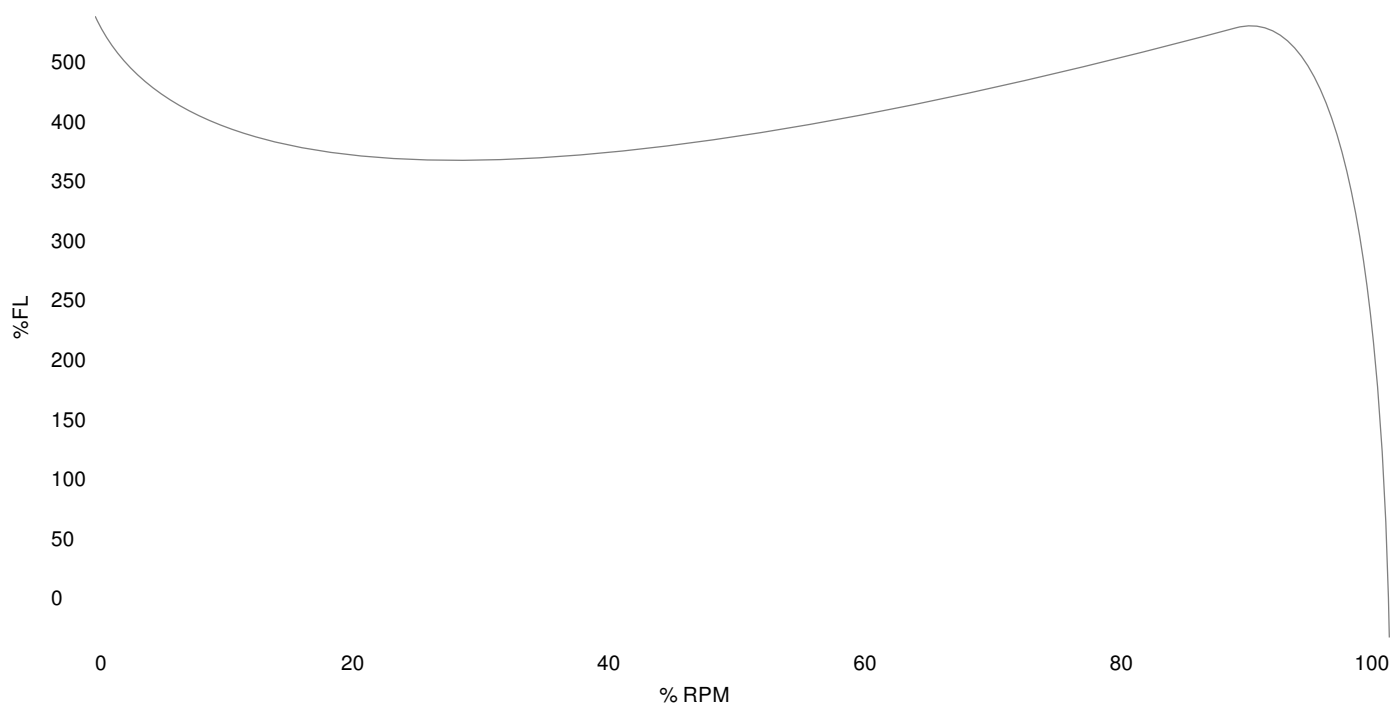
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FACTORY TYPE:	TXC

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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 Tel: 678-436-5540
 E-Mail: info@techttopind.com