



NEMA Premium

NEMA

MOTOR MODEL:	GR3-CI-TF-182TC-2-B-D-3
FACTORY TYPE:	TXC

Premium NEMA Cast Iron, TEFC

ELECTRICAL DATA		
	60 Hz	50 Hz
Horsepower	3.0	3.0
Speed, RPM	3510	2900
Voltage	230/460	190/380
# Phase	3	
Full Load Amps	7.3/3.65	9.4/4.7
Power Factor	0.86	-
Nominal Efficiency	86.5	84.0
3/4 Load Efficiency	-	-
Service Factor	1.25	1.0
KVA Code	K	H
FL Amps. @ 208 V	8.06919	-
Locked Rotor Current	33.3216	-
Start Capacitor	-	
Start Capacitor V	-	
Run Capacitor	-	
Run Capacitor V	-	
Number of Leads	9	
Connection	YY/Y	
Coil Resistance	-	
Date Code	-	
Load	Efficiency %	P.F.
50%	84.23	0.77
75%	86.43	0.86
100%	86.72	0.9
FULL LOAD TEMPERATURE RISE		
FL Temp Rise °C	-	-
3D Image Link		
GR3-CI-TF-182TC-2-B-D-3		

GENERAL DATA				
Frame Size	182TC			
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	1-NPT 3/4"			
Feet Removable	true			
Double Drilled	-			
Paint Color	Graphite Gray			
Paint RAL	7024			
Weight lb	82.6875			
MECHANICAL DATA				
DE Bearing	6306ZZ			
NDE Bearing	6306ZZ			
dB No-Load	-			
Rotor Wk ² , Lb-Ft ²	-			
Comp Ring (wavy washer)	-			
TORQUE VALUES			Torque lb-ft	% FLT
Locked Rotor Torque	11.1842	254.0		
Pull-Up Torque	5.54809	126.0		
Breakdown Torque	15.6315	355.0		
Full Load Torque	4.40325	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.

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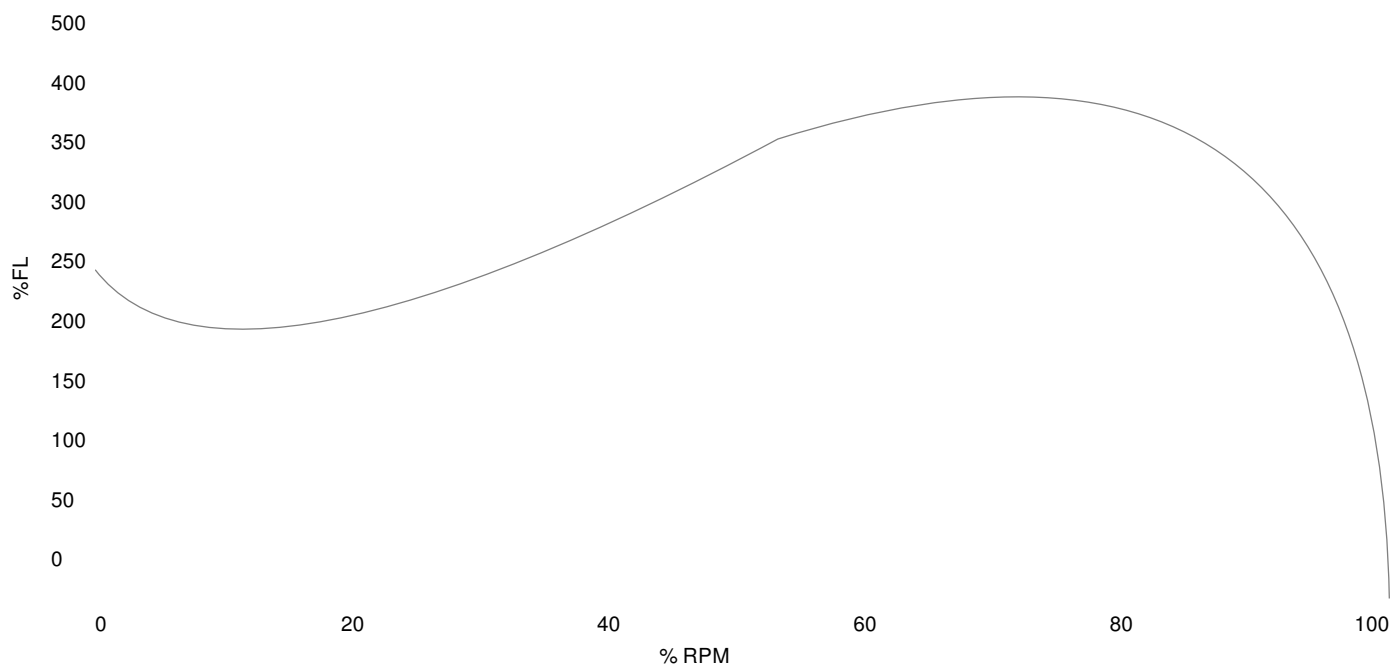
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Premium NEMA Cast Iron, TEFC

Non Sinusoidal (VFD) Output 3.0HP, 3510 RPM

Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

Torque Values	Torque lb-ft	% FLT	Performance Values
Locked Rotor Torque	11.1842	254.0	Start Configuration
Pull-Up Torque	5.54809	126.0	Starting Current (A)
Breakdown Torque	15.6315	355.0	No-Load Current (A)
Full Load	4.40325	100.0	No-Load Power Factor

% Load	Horsepower	Current, Amps	Input power, Kilowatts	Speed, RPM	Efficiency	PF
0	-	1.31	-	-	-	-
25	0.75	1.58	723.3	3579.3	76.04	0.58
50	1.5	2.13	1306.0	3561.2	84.23	0.77
75	2.25	2.79	1909.0	3541.2	86.43	0.86
100	3.0	3.56	2537.0	3519.6	86.72	0.9
125	3.75	4.39	3194.0	3496.3	86.1	0.91

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