



NEMA Premium

**NEMA**

<b>MOTOR MODEL:</b>	GR3-CI-TF-254TC-6-BR-D-7.5
<b>FACTORY TYPE:</b>	TXC

Premium NEMA Cast Iron, TEFC

ELECTRICAL DATA		
	60 Hz	50 Hz
Horsepower	7.5	7.5
Speed, RPM	1170	960
Voltage	230/460	190/380
# Phase	3	
Full Load Amps	20.31/10.15	26.4/13.2
Power Factor	0.74	-
Nominal Efficiency	91.0	87.5
3/4 Load Efficiency	-	-
Service Factor	1.25	1.0
KVA Code	J	H
FL Amps. @ 208 V	22.4554	-
LRC @ 60Hz HV	80.0056	-
Start Capacitor	-	
Start Capacitor V	-	
Run Capacitor	-	
Run Capacitor V	-	
Number of Leads	12	
Connection	DD/D	
Coil Resistance	-	
Date Code	-	
Load	Efficiency %	P.F.
50%	90.32	0.56
75%	91.43	0.68
100%	91.33	0.75
FULL LOAD TEMPERATURE RISE		
FL Temp Rise °C	38.0	-
3D Image Link		
<a href="#">GR3-CI-TF-254TC-6-BR-D-7.5</a>		

GENERAL DATA				
Frame Size	254TC			
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 1-1/4"			
Feet Removable	true			
Double Drilled	-			
Paint Color	Graphite Gray			
Paint RAL	7024			
Weight lb	246.96			
MECHANICAL DATA				
DE Bearing	6309C3			
NDE Bearing	6309C3			
dB No-Load	-			
Rotor Wk <sup>2</sup> , Lb-Ft <sup>2</sup>	-			
Comp Ring (wavy washer)	-			
TORQUE VALUES			Torque lb-ft	% FLT
Locked Rotor Torque	83.9161	246.0		
Pull-Up Torque	44.687	131.0		
Breakdown Torque	103.36	303.0		
Full Load Torque	34.1123	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 Techttop for more info.

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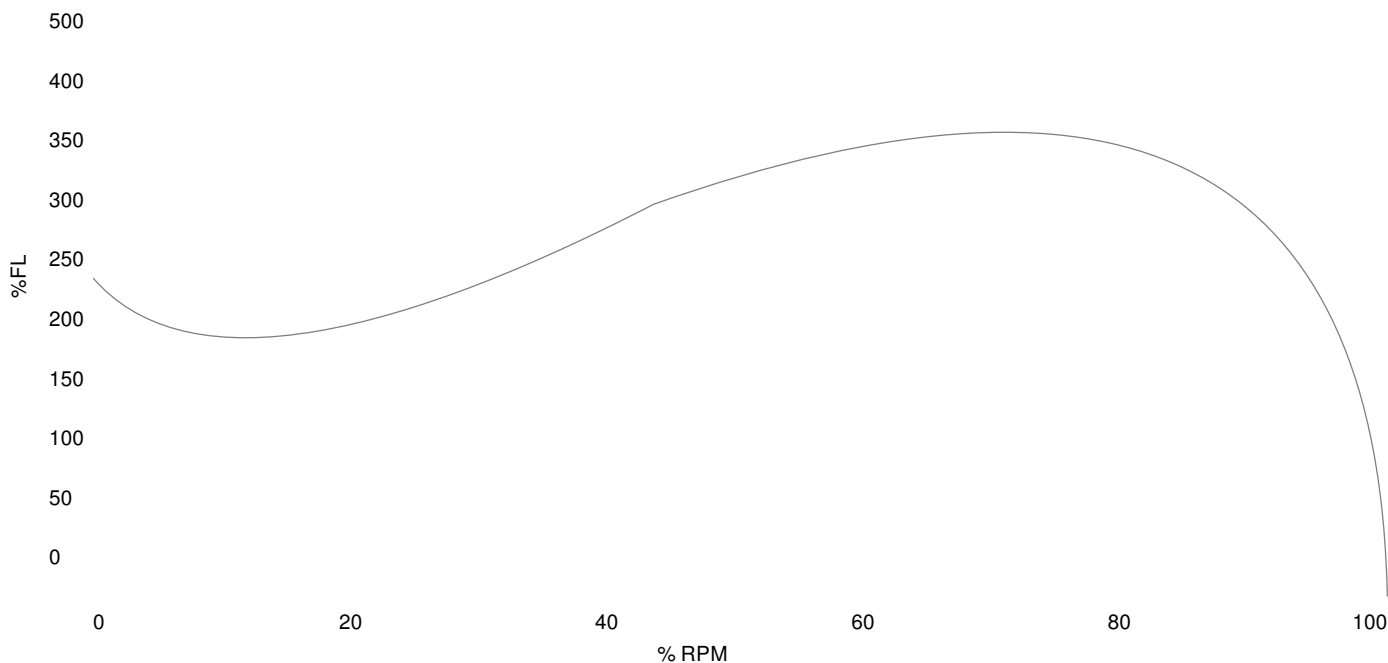
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Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

Torque Values	Torque lb-ft	% FLT	Performance Values
Locked Rotor Torque	83.9161	246.0	Start Configuration
Pull-Up Torque	44.687	131.0	Starting Current (A)
Breakdown Torque	103.36	303.0	No-Load Current (A)
Full Load	34.1123	100.0	No-Load Power Factor

% Load	Horsepower	Current, Amps	Input power, Kilowatts	Speed, RPM	Efficiency	PF
0	-	5.59	-	-	-	-
25	1.875	5.8	1.64	1194.4	85.17	0.36
50	3.75	6.98	3.1	1189.7	90.32	0.56
75	5.625	8.49	4.59	1184.4	91.43	0.68
100	7.5	10.31	6.13	1178.4	91.33	0.75
125	9.375	12.41	7.72	1171.8	90.64	0.78

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