



NEMA Premium

NEMA

MOTOR MODEL:	GR3-CI-TF-254T-6-BR-D-7.5
FACTORY TYPE:	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	-
Locked Rotor Current	80.0056	-
Start Capacitor	-	
Start Capacitor V	-	
Run Capacitor	-	
Run Capacitor V	-	
Number of Leads	12	
Connection	DD/D	
Coil Resistance	-	
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		
GR3-CI-TF-254T-6-BR-D-7.5		

GENERAL DATA				
Frame Size	254T			
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	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 ² , Lb-Ft ²	-			
Comp Ring (wavey washer)	DE			
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			



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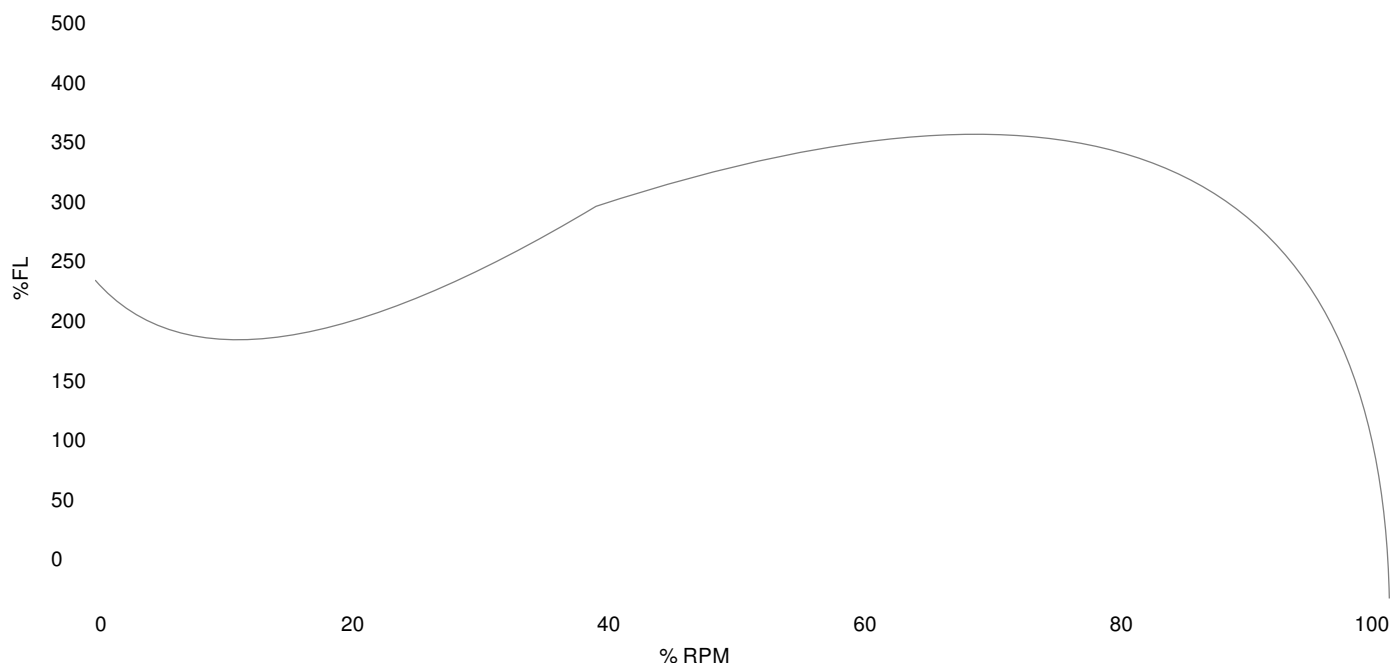
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Non Sinusoidal (VFD) Output 7.5HP, 1170 RPM

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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