



NEMA Premium

NEMA

MOTOR MODEL:	GR3-CI-TF-254TC-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	-
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		
GR3-CI-TF-254TC-6-BR-D-7.5		

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 Wk², Lb-Ft²	-	
Comp Ring (wavey 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 Techtop for more info.

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



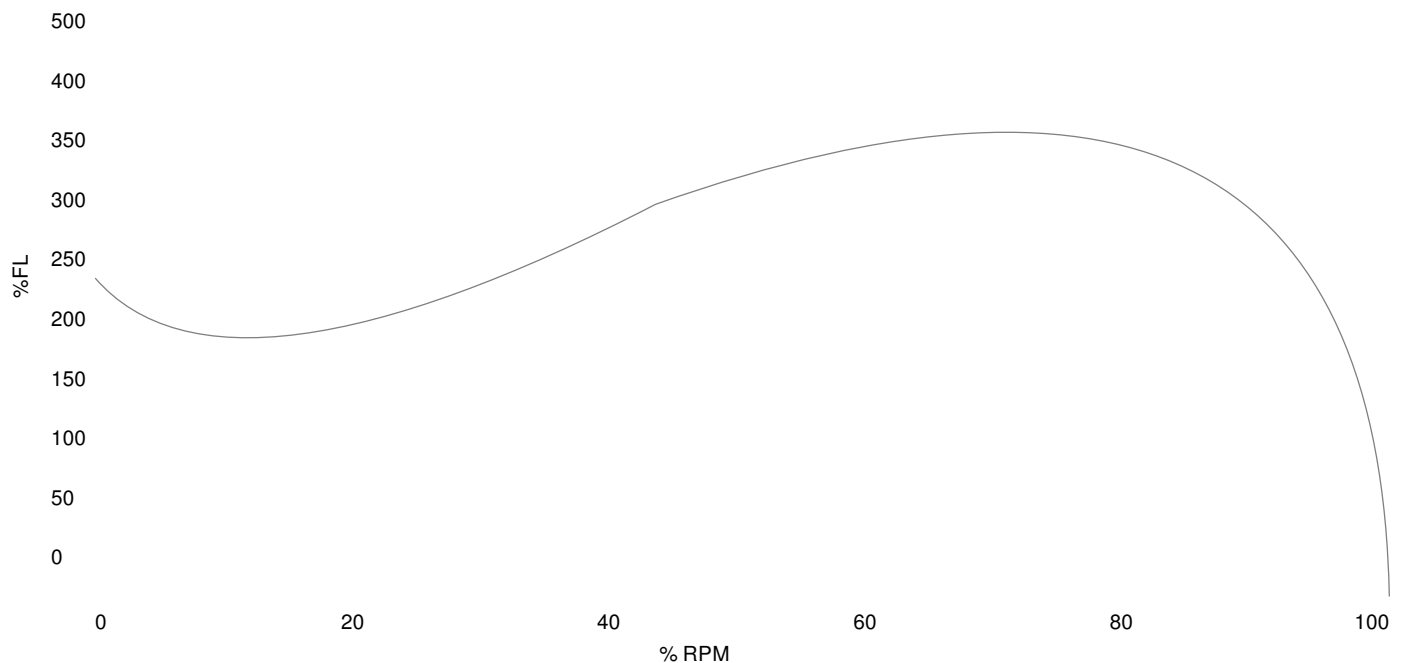
NEMA Premium

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

NEMA

Premium NEMA Cast Iron, TEFC

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

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