

# NEMA

<b>MOTOR MODEL:</b>	GR3-CI-TF-213TC-2-B-D-7.5
<b>FACTORY TYPE:</b>	TXC

## Premium NEMA Cast Iron, TEFC

<b>ELECTRICAL DATA</b>		
	60 Hz	50 Hz
Horsepower	7.5	7.5
Speed, RPM	3520	2910
Voltage	230/460	190/380
# Phase	3	
Full Load Amps	17.24/8.62	23.6/11.8
Power Factor	0.88	-
Nominal Efficiency	89.5	86.5
3/4 Load Efficiency	-	-
Service Factor	1.25	1.0
KVA Code	J	H
FL Amps. @ 208 V	19.0683	-
Locked Rotor Current	188.462	-
Start Capacitor	-	
Start Capacitor V	-	
Run Capacitor	-	
Run Capacitor V	-	
Number of Leads	9	
Connection	YY/Y	
Coil Resistance	-	
Date Code	-	
<b>Load</b>	<b>Efficiency %</b>	<b>P.F.</b>
50%	88.01	0.79
75%	90.04	0.86
100%	90.54	0.89
<b>FULL LOAD TEMPERATURE RISE</b>		
FL Temp Rise °C	-	
<b>3D Image Link</b>		
<a href="#">GR3-CI-TF-213TC-2-B-D-7.5</a>		

<b>GENERAL DATA</b>			
Frame Size	213TC		
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"		
Feet Removable	true		
Double Drilled	-		
Paint Color	Graphite Gray		
Paint RAL	7024		
Weight lb	140.018		
<b>MECHANICAL DATA</b>			
DE Bearing	6308ZZ		
NDE Bearing	6308ZZ		
dB No-Load	-		
Rotor Wk <sup>2</sup> , Lb-Ft <sup>2</sup>	-		
Comp Ring (wavey washer)	-		
<b>TORQUE VALUES</b>		Torque lb-ft	% FLT
Locked Rotor Torque	38.6162	354.0	
Pull-Up Torque	11.5631	106.0	
Breakdown Torque	45.925	421.0	
Full Load Torque	10.9085	100.0	
<b>SITE CONDITIONS</b>			
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.



NEMA Premium

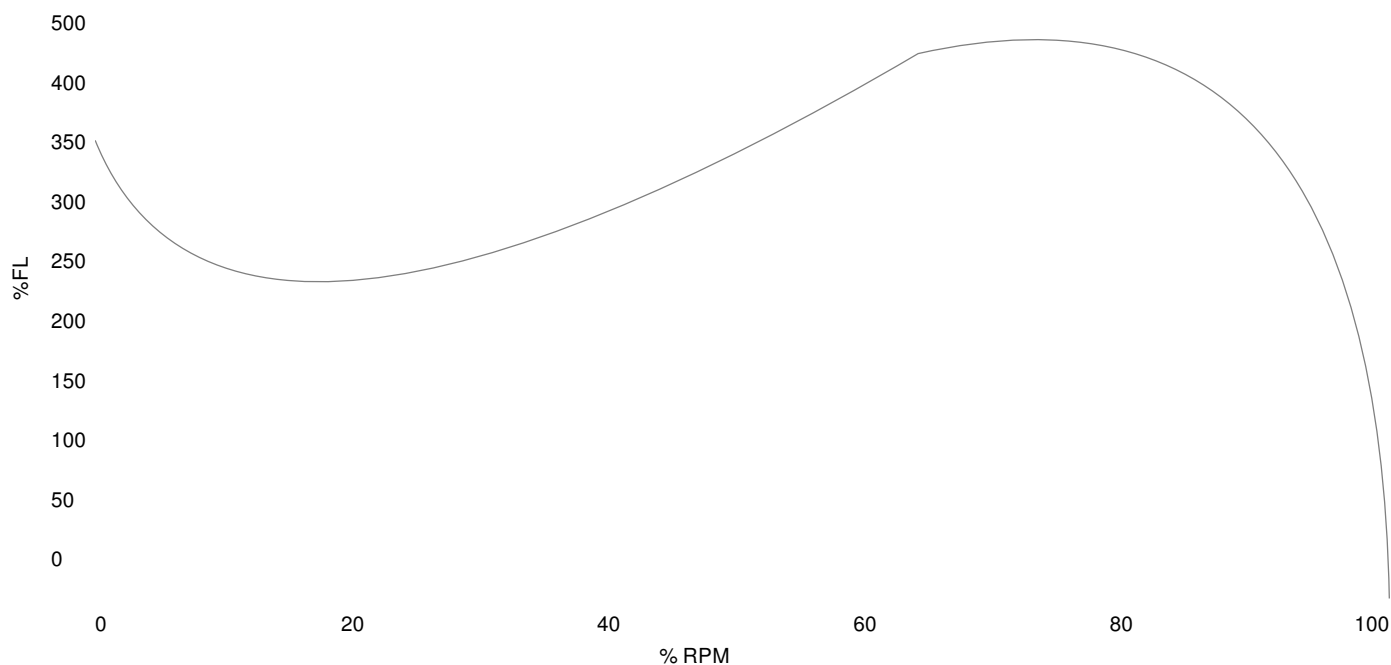
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Premium NEMA Cast Iron, TEFC

Non Sinusoidal (VFD) Output 7.5HP, 3520 RPM

Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

Torque Values	Torque lb-ft	% FLT	Performance Values
Locked Rotor Torque	38.6162	354.0	Start Configuration
Pull-Up Torque	11.5631	106.0	Starting Current (A)
Breakdown Torque	45.925	421.0	No-Load Current (A)
Full Load	10.9085	100.0	No-Load Power Factor

% Load	Horsepower	Current, Amps	Input power, Kilowatts	Speed, RPM	Efficiency	PF
0	-	5.78	-	-	-	-
25	1.875	7.16	1700.8	3584.8	80.84	0.6
50	3.75	9.98	3124.7	3571.1	88.01	0.79
75	5.625	13.32	4581.2	3556.7	90.04	0.86
100	7.5	17.04	6074.7	3541.5	90.54	0.89
125	9.375	21.03	7608.1	3525.5	90.36	0.91

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