



NEMA Premium

# NEMA

<b>MOTOR MODEL:</b>	GR3-CI-TF-284TC-6-BR-D-15
<b>FACTORY TYPE:</b>	TXC

## Premium NEMA Cast Iron, TEFC

ELECTRICAL DATA		
	60 Hz	50 Hz
Horsepower	15.0	15.0
Speed, RPM	1175	965
Voltage	230/460	190/380
# Phase	3	
Full Load Amps	40.3/20.15	46.8/23.4
Power Factor	0.8	-
Nominal Efficiency	91.7	89.1
3/4 Load Efficiency	-	-
Service Factor	1.25	1.0
KVA Code	M	F
FL Amps. @ 208 V	44.568	-
Locked Rotor Current	203.894	-
Start Capacitor	-	
Start Capacitor V	-	
Run Capacitor	-	
Run Capacitor V	-	
Number of Leads	12	
Connection	DD/D	
Coil Resistance	-	
<b>Load</b>	<b>Efficiency %</b>	<b>P.F.</b>
50%	89.62	0.58
75%	91.24	0.71
100%	91.52	0.78
FULL LOAD TEMPERATURE RISE		
FL Temp Rise °C	46.0	-
3D Image Link		
Not available for this motor		

GENERAL DATA			
Frame Size	284TC		
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 1-1/2"		
Feet Removable	true		
Double Drilled	-		
Paint Color	Graphite Gray		
Paint RAL	7024		
Weight lb	363.825		
MECHANICAL DATA			
DE Bearing	6311C3		
NDE Bearing	6311C3		
dB No-Load	-		
Rotor Wk <sup>2</sup> , Lb-Ft <sup>2</sup>	-		
Comp Ring (wavey washer)	-		
TORQUE VALUES		Torque lb-ft	% FLT
Locked Rotor Torque	220.176	326.0	
Pull-Up Torque	96.5801	143.0	
Breakdown Torque	268.128	397.0	
Full Load Torque	67.5386	100.0	
SITE CONDITIONS			
Ambient Temp °C	40		
Altitude Above Sea Level m	1000		



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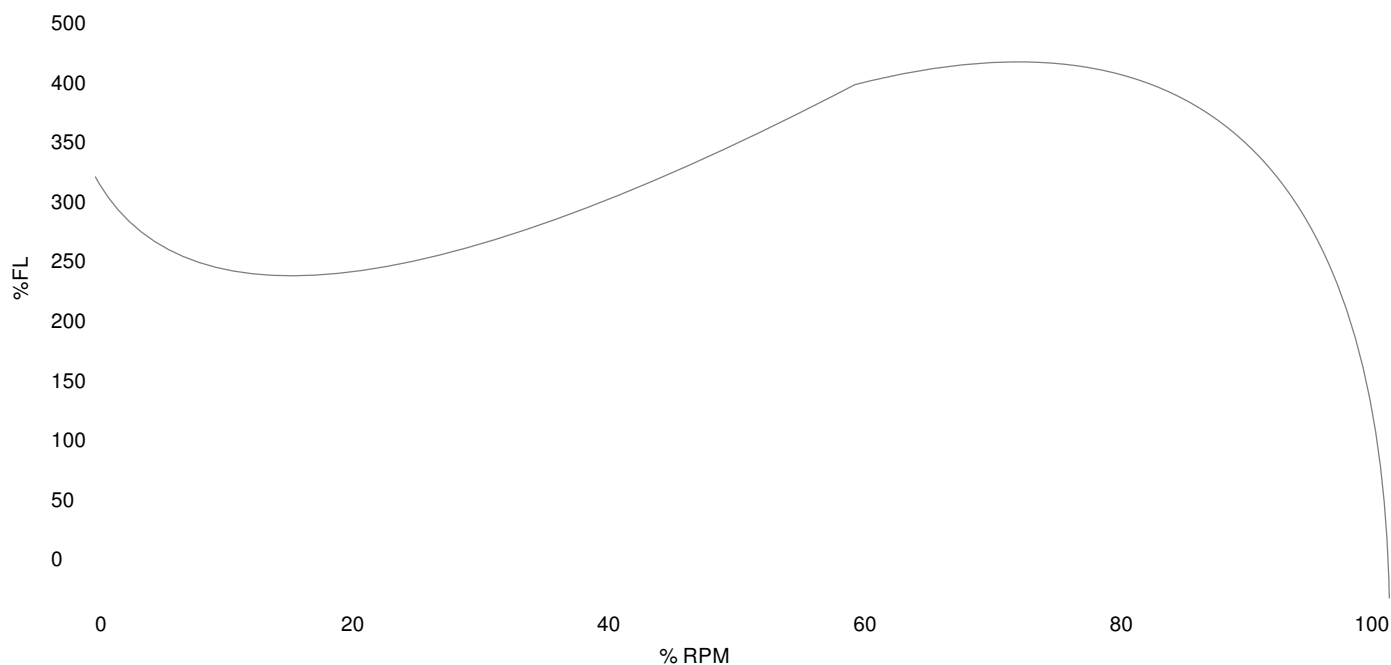
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Premium NEMA Cast Iron, TEFC

Non Sinusoidal (VFD) Output 15.0HP, 1175 RPM

Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

Torque Values	Torque lb-ft	% FLT	Performance Values
Locked Rotor Torque	220.176	326.0	Start Configuration
Pull-Up Torque	96.5801	143.0	Starting Current (A)
Breakdown Torque	268.128	397.0	No-Load Current (A)
Full Load	67.5386	100.0	No-Load Power Factor

% Load	Horsepower	Current, Amps	Input power, Kilowatts	Speed, RPM	Efficiency	PF
0	-	10.91	-	-	-	-
25	3.75	11.67	3.39	1196.6	83.41	0.36
50	7.5	13.71	6.3	1193.3	89.62	0.58
75	11.25	16.54	9.29	1189.8	91.24	0.71
100	15.0	19.97	12.35	1186.0	91.52	0.78
125	18.75	23.86	15.49	1182.0	91.21	0.81

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