



NEMA Premium

# NEMA

<b>MOTOR MODEL:</b>	GR3-CI-TF-326TC-6-BR-D-30
<b>FACTORY TYPE:</b>	TXC

## Premium NEMA Cast Iron, TEFC

ELECTRICAL DATA		
	60 Hz	50 Hz
Horsepower	30.0	30.0
Speed, RPM	1180	965
Voltage	230/460	190/380
# Phase	3	
Full Load Amps	72.78/36.39	88.8/44.4
Power Factor	0.82	-
Nominal Efficiency	93.0	90.0
3/4 Load Efficiency	-	-
Service Factor	1.25	1.0
KVA Code	M	E
FL Amps. @ 208 V	80.4776	-
Locked Rotor Current	407.376	-
Start Capacitor	-	
Start Capacitor V	-	
Run Capacitor	-	
Run Capacitor V	-	
Number of Leads	12	
Connection	DD/D	
Coil Resistance	-	
Load	Efficiency %	P.F.
50%	92.38	0.65
75%	93.22	0.76
100%	93.12	0.81
FULL LOAD TEMPERATURE RISE		
FL Temp Rise °C	63.0	-
3D Image Link		
Not available for this motor		

GENERAL DATA		
Frame Size	326TC	
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 2"	
Feet Removable	true	
Double Drilled	true	
Paint Color	Graphite Gray	
Paint RAL	7024	
Weight lb	648.27	
MECHANICAL DATA		
DE Bearing	6312C3	
NDE Bearing	6312C3	
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	406.285	302.0
Pull-Up Torque	216.595	161.0
Breakdown Torque	495.075	368.0
Full Load Torque	134.531	100.0
SITE CONDITIONS		
Ambient Temp °C	40	
Altitude Above Sea Level m	1000	

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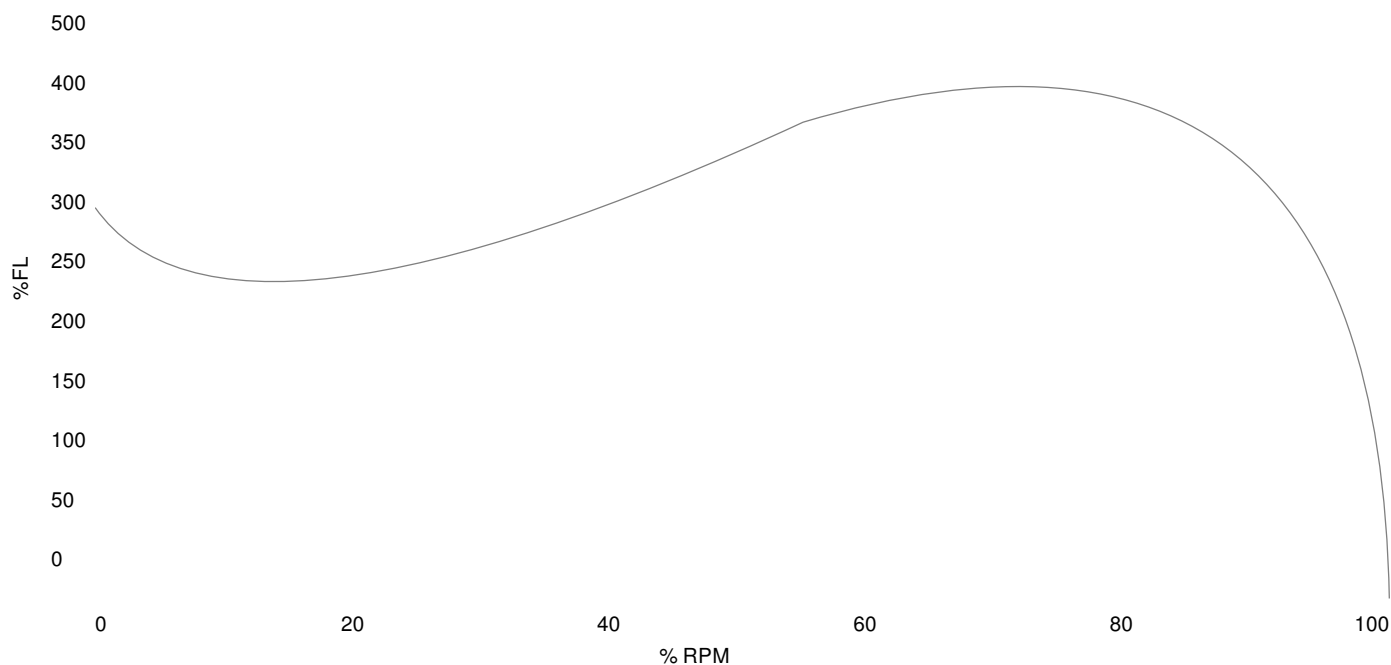
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<b>FACTORY TYPE:</b>	TXC

Premium NEMA Cast Iron, TEFC

Non Sinusoidal (VFD) Output 30.0HP, 1180 RPM

Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

Torque Values	Torque lb-ft	% FLT	Performance Values
Locked Rotor Torque	406.285	302.0	Start Configuration
Pull-Up Torque	216.595	161.0	Starting Current (A)
Breakdown Torque	495.075	368.0	No-Load Current (A)
Full Load	134.531	100.0	No-Load Power Factor

% Load	Horsepower	Current, Amps	Input power, Kilowatts	Speed, RPM	Efficiency	PF
0	-	17.02	-	-	-	-
25	7.5	18.23	6.31	1196.0	88.29	0.43
50	15.0	23.42	12.07	1192.5	92.38	0.65
75	22.5	29.7	17.94	1188.6	93.22	0.76
100	30.0	36.9	23.95	1184.5	93.12	0.81
125	37.5	44.85	30.1	1179.9	92.6	0.84

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