



NEMA Premium

**NEMA**

<b>MOTOR MODEL:</b>	GR3-CI-TF-145TC-4-B-D-1.5
<b>FACTORY TYPE:</b>	TXC

Premium NEMA Cast Iron, TEFC

ELECTRICAL DATA		
	60 Hz	50 Hz
Horsepower	1.5	1.5
Speed, RPM	1715	1425
Voltage	230/460	190/380
# Phase	3	
Full Load Amps	4.33/2.16	5.6/2.8
Power Factor	0.74	-
Nominal Efficiency	86.5	82.0
3/4 Load Efficiency	-	-
Service Factor	1.25	1.0
KVA Code	L	K
FL Amps. @ 208 V	4.78772	-
Locked Rotor Current	17.4528	-
Start Capacitor	-	
Start Capacitor V	-	
Run Capacitor	-	
Run Capacitor V	-	
Number of Leads	9	
Connection	YY/Y	
Coil Resistance	-	
Load	Efficiency %	P.F.
50%	84.56	0.53
75%	86.79	0.67
100%	87.1	0.75
FULL LOAD TEMPERATURE RISE		
FL Temp Rise °C	-	-
3D Image Link		
Not available for this motor		

GENERAL DATA			
Frame Size	145TC		
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 3/4"		
Feet Removable	true		
Double Drilled	-		
Paint Color	Graphite Gray		
Paint RAL	7024		
Weight lb	54.0225		
MECHANICAL DATA			
DE Bearing	6205ZZ		
NDE Bearing	6205ZZ		
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		16.1544	351.0
Pull-Up Torque		14.8197	322.0
Breakdown Torque		18.9158	411.0
Full Load Torque		4.60239	100.0
SITE CONDITIONS			
Ambient Temp °C		40	
Altitude Above Sea Level m		1000	

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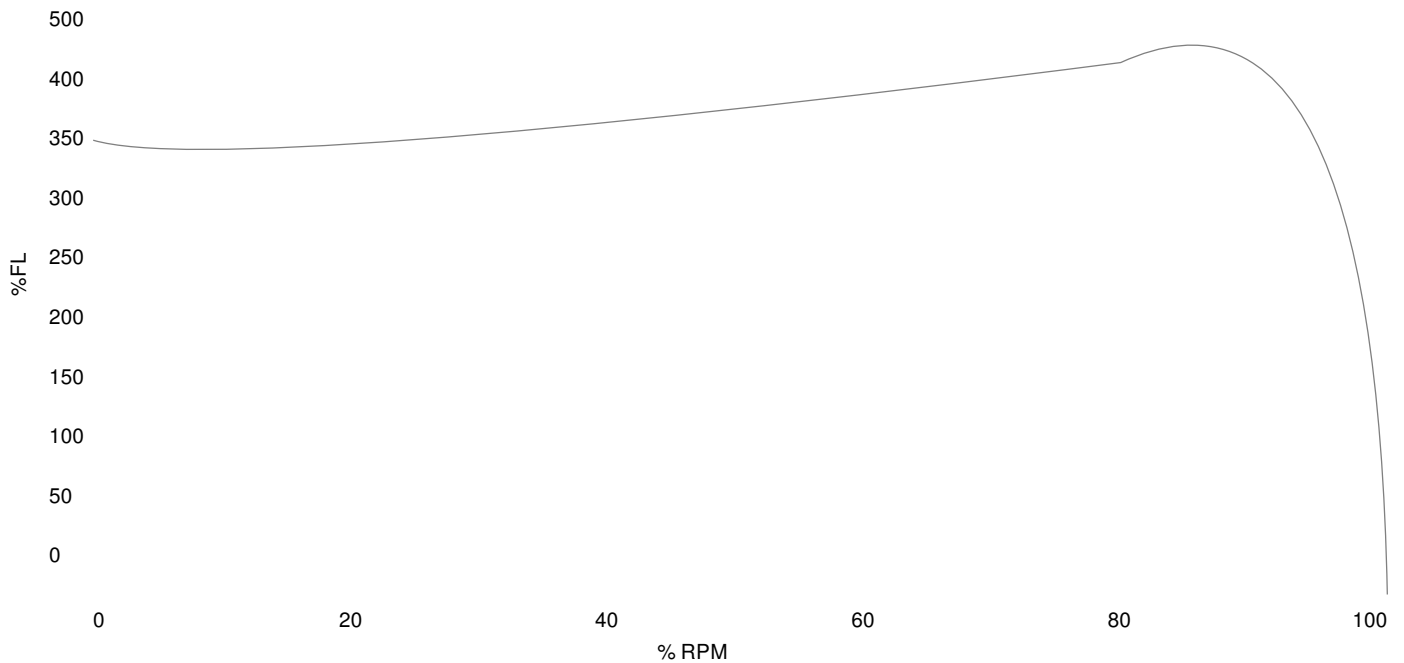
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<b>FACTORY TYPE:</b>	TXC

Premium NEMA Cast Iron, TEFC

Non Sinusoidal (VFD) Output 1.5HP, 1715 RPM

Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

Torque Values	Torque lb-ft	% FLT	Performance Values
Locked Rotor Torque	16.1544	351.0	Start Configuration
Pull-Up Torque	14.8197	322.0	Starting Current (A)
Breakdown Torque	18.9158	411.0	No-Load Current (A)
Full Load	4.60239	100.0	No-Load Power Factor

% Load	Horsepower	Current, Amps	Input power, Kilowatts	Speed, RPM	Efficiency	PF
0	-	1.34	-	-	-	-
25	0.375	1.4	368.98	1787.5	76.22	0.33
50	0.75	1.57	665.18	1775.8	84.56	0.53
75	1.125	1.83	972.14	1763.0	86.79	0.67
100	1.5	2.16	1291.7	1749.1	87.1	0.75
125	1.875	2.54	1625.7	1734.1	86.5	0.8

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