



NEMA Premium

**NEMA**

<b>MOTOR MODEL:</b>	GR3-CI-TF-405TS-2-BR-D-100
<b>FACTORY TYPE:</b>	TXC

Premium NEMA Cast Iron, TEFC

ELECTRICAL DATA		
	60 Hz	50 Hz
Horsepower	100.0	100.0
Speed, RPM	3570	2950
Voltage	230/460	190/380
# Phase	3	
Full Load Amps	218.69/109.34	268/134
Power Factor	0.9	-
Nominal Efficiency	94.1	92.5
3/4 Load Efficiency	-	-
Service Factor	1.15	1.0
KVA Code	K	E
FL Amps. @ 208 V	-	-
Locked Rotor Current	1031.34	-
Start Capacitor	-	
Start Capacitor V	-	
Run Capacitor	-	
Run Capacitor V	-	
Number of Leads	12	
Connection	DD/D	
Coil Resistance	-	
Load	Efficiency %	P.F.
50%	92.96	0.86
75%	93.96	0.9
100%	94.05	0.91
FULL LOAD TEMPERATURE RISE		
FL Temp Rise °C	67.0	-
3D Image Link		
<a href="#">GR3-CI-TF-405TS-2-BR-D-100</a>		

GENERAL DATA				
Frame Size	405TS			
Frame Enclosure	TEFC			
Mounting	Rigid			
Insulation Class	F			
Duty	Cont. / S1			
NEMA Design	A			
Frame Material	Cast Iron			
Ingress Protection	55			
Tropicalization	true			
Cable Entry	1-NPT 3"			
Feet Removable	-			
Double Drilled	true			
Paint Color	Graphite Gray			
Paint RAL	7024			
Weight lb	1020.91			
MECHANICAL DATA				
DE Bearing	6314C3			
NDE Bearing	6314C3			
dB No-Load	-			
Rotor Wk <sup>2</sup> , Lb-Ft <sup>2</sup>	-			
Comp Ring (wavey washer)	DE			
TORQUE VALUES			Torque lb-ft	% FLT
Locked Rotor Torque	479.374	324.0		
Pull-Up Torque	303.308	205.0		
Breakdown Torque	449.783	304.0		
Full Load Torque	147.955	100.0		
SITE CONDITIONS				
Ambient Temp °C	40			
Altitude Above Sea Level m	1000			



NEMA Premium

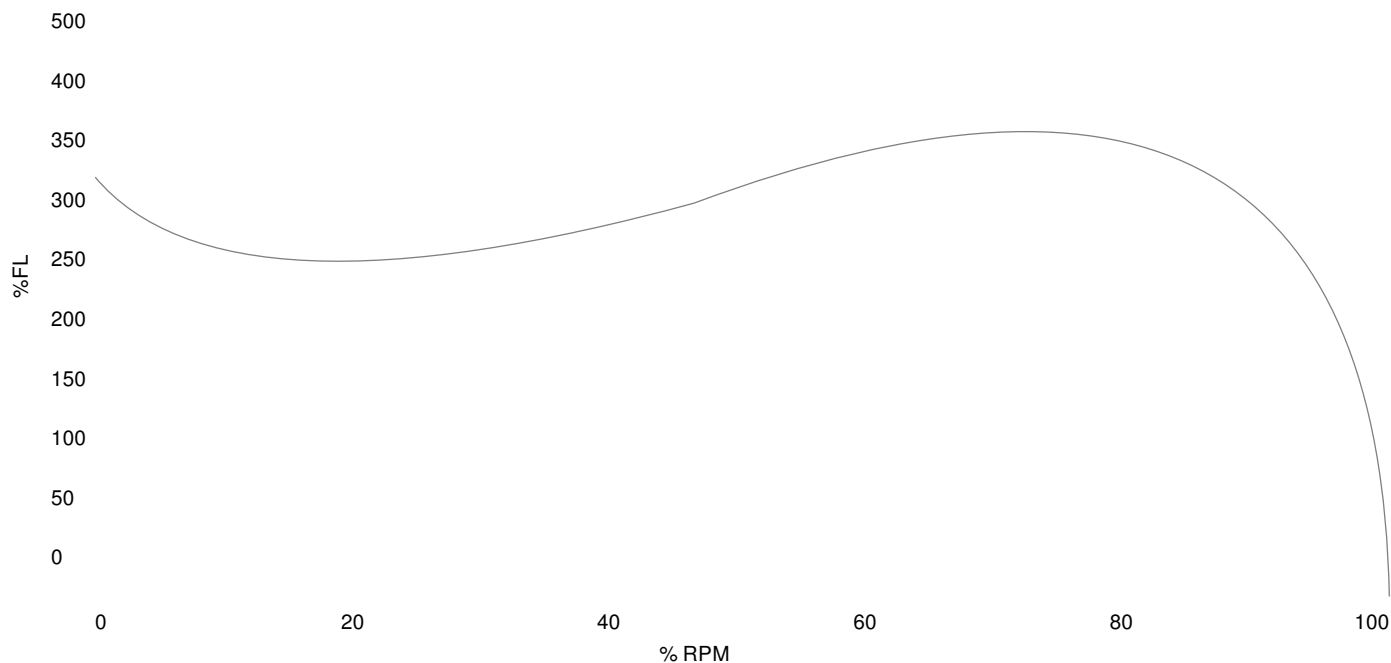
<b>MOTOR MODEL:</b>	GR3-CI-TF-405TS-2-BR-D-100
<b>FACTORY TYPE:</b>	TXC

**NEMA**

Premium NEMA Cast Iron, TEFC

Non Sinusoidal (VFD) Output 100.0HP, 3570 RPM

Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

Torque Values	Torque lb-ft	% FLT	Performance Values
Locked Rotor Torque	479.374	324.0	Start Configuration
Pull-Up Torque	303.308	205.0	Starting Current (A)
Breakdown Torque	449.783	304.0	No-Load Current (A)
Full Load	147.955	100.0	No-Load Power Factor

% Load	Horsepower	Current, Amps	Input power, Kilowatts	Speed, RPM	Efficiency	PF
0	-	24.33	-	-	-	-
25	25.0	36.85	21.13	3592.6	88.75	0.72
50	50.0	59.11	40.34	3585.3	92.96	0.86
75	75.0	83.45	59.87	3577.4	93.96	0.9
100	100.0	109.64	79.74	3568.9	94.05	0.91
125	125.0	137.44	100.0	3559.8	93.75	0.91

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