



NEMA Premium

NEMA

MOTOR MODEL:	GR3-CI-TF-405TSC-2-BR-D-100
FACTORY TYPE:	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		
Not available for this motor		

GENERAL DATA			
Frame Size	405TSC		
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"		
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 ² , Lb-Ft ²	-		
Comp Ring (wavy washer)	-		
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	



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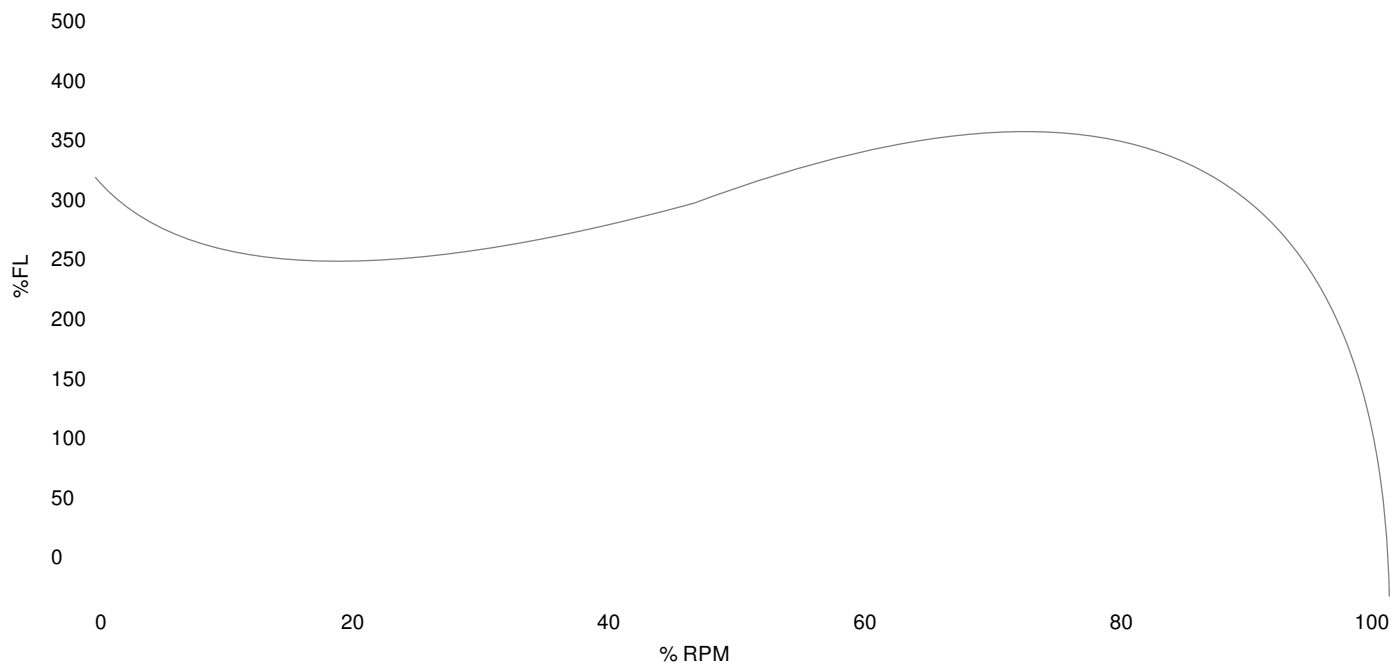
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Non Sinusoidal (VFD) Output 100.0HP, 3570 RPM

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

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