



NEMA Premium

NEMA

MOTOR MODEL:	GR3-CI-TF-405TC-4-BR-D-100
FACTORY TYPE:	TXC

Premium NEMA Cast Iron, TEFC

ELECTRICAL DATA		
	60 Hz	50 Hz
Horsepower	100.0	100.0
Speed, RPM	1780	1480
Voltage	230/460	190/380
# Phase	3	
Full Load Amps	230.93/115.47	270/135
Power Factor	0.86	-
Nominal Efficiency	95.4	93.4
3/4 Load Efficiency	-	-
Service Factor	1.15	1.0
KVA Code	K	E
FL Amps. @ 208 V	-	-
Locked Rotor Current	1130.03	-
Start Capacitor	-	
Start Capacitor V	-	
Run Capacitor	-	
Run Capacitor V	-	
Number of Leads	12	
Connection	DD/D	
Coil Resistance	-	
Load	Efficiency %	P.F.
50%	94.75	0.76
75%	95.29	0.84
100%	95.15	0.87
FULL LOAD TEMPERATURE RISE		
FL Temp Rise °C	70.0	-
3D Image Link		
Not available for this motor		

GENERAL DATA		
Frame Size	405TC	
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	1025.32	
MECHANICAL DATA		
DE Bearing	6316C3	
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	976.789	332.0
Pull-Up Torque	291.271	99.0
Breakdown Torque	453.089	154.0
Full Load Torque	294.214	100.0
SITE CONDITIONS		
Ambient Temp °C	40	
Altitude Above Sea Level m	1000	



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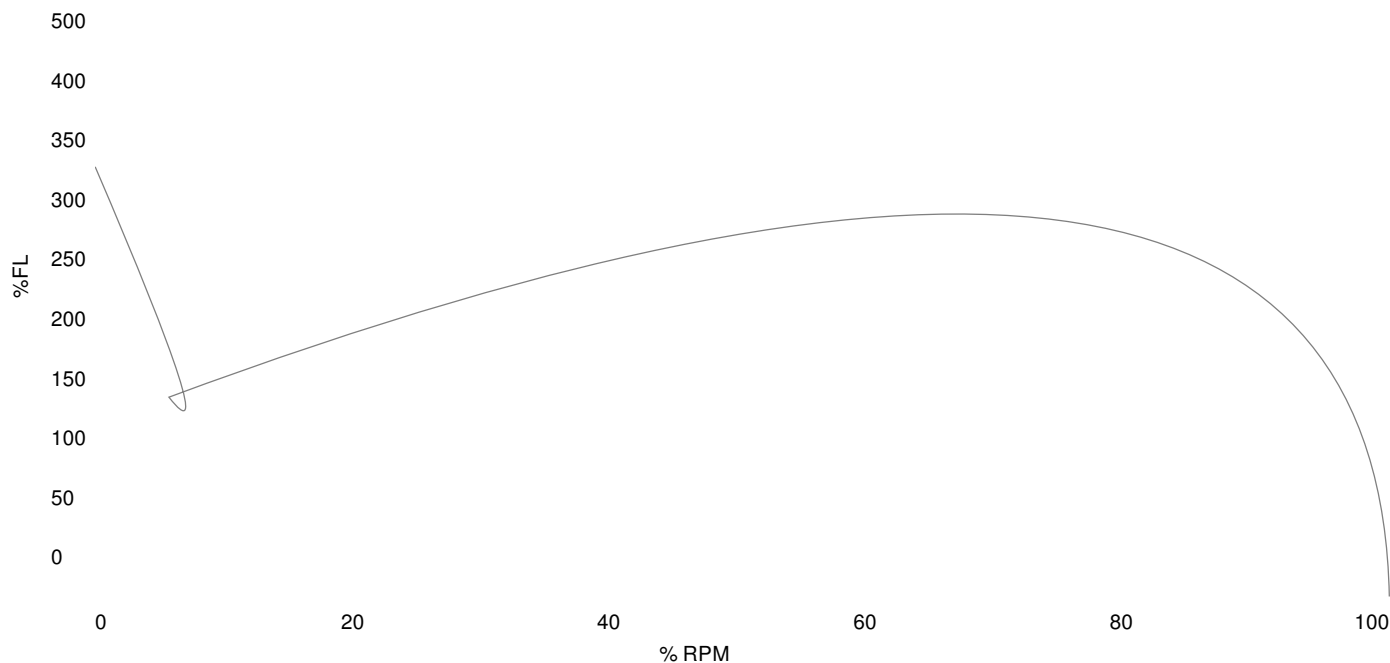
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FACTORY TYPE:	TXC

Premium NEMA Cast Iron, TEFC

Non Sinusoidal (VFD) Output 100.0HP, 1780 RPM

Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

Torque Values	Torque lb-ft	% FLT	Performance Values
Locked Rotor Torque	976.789	332.0	Start Configuration
Pull-Up Torque	291.271	99.0	Starting Current (A)
Breakdown Torque	453.089	154.0	No-Load Current (A)
Full Load	294.214	100.0	No-Load Power Factor

% Load	Horsepower	Current, Amps	Input power, Kilowatts	Speed, RPM	Efficiency	PF
0	-	41.22	-	-	-	-
25	25.0	48.74	20.43	1796.0	91.8	0.53
50	50.0	65.67	39.58	1791.9	94.75	0.76
75	75.0	87.99	59.03	1787.6	95.29	0.84
100	100.0	113.85	78.83	1783.1	95.15	0.87
125	125.0	141.43	98.97	1778.3	94.72	0.88

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