



NEMA Premium

NEMA

MOTOR MODEL:	GR3-CI-TF-444TC-6-RR-D-100
FACTORY TYPE:	TXC

Premium NEMA Cast Iron, TEFC

ELECTRICAL DATA		
	60 Hz	50 Hz
Horsepower	100.0	100.0
Speed, RPM	1180	985
Voltage	230/460	190/380
# Phase	3	
Full Load Amps	229.21/114.6	278/139
Power Factor	0.86	-
Nominal Efficiency	95.0	93.5
3/4 Load Efficiency	-	-
Service Factor	1.15	1.0
KVA Code	H	D
FL Amps. @ 208 V	-	-
Locked Rotor Current	850.883	-
Start Capacitor	-	
Start Capacitor V	-	
Run Capacitor	-	
Run Capacitor V	-	
Number of Leads	12	
Connection	DD/D	
Coil Resistance	-	
Date Code	-	
Load	Efficiency %	P.F.
50%	94.86	0.79
75%	95.51	0.85
100%	95.48	0.87
FULL LOAD TEMPERATURE RISE		
FL Temp Rise °C	76.0	-
3D Image Link		
GR3-CI-TF-444TC-6-RR-D-100		

GENERAL DATA			
Frame Size	444TC		
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	1589.81		
MECHANICAL DATA			
DE Bearing	NU319		
NDE Bearing	6319C3		
dB No-Load	-		
Rotor Wk ² , Lb-Ft ²	-		
Comp Ring (wavy washer)	-		
TORQUE VALUES		Torque lb-ft	% FLT
Locked Rotor Torque	974.23	217.0	
Pull-Up Torque	682.41	152.0	
Breakdown Torque	1117.9	249.0	
Full Load Torque	448.954	100.0	
SITE CONDITIONS			
Ambient Temp °C	40		
Altitude Above Sea Level m	1000		

*This report valid for above Date Code and newer models, please contact Techttop for more info.



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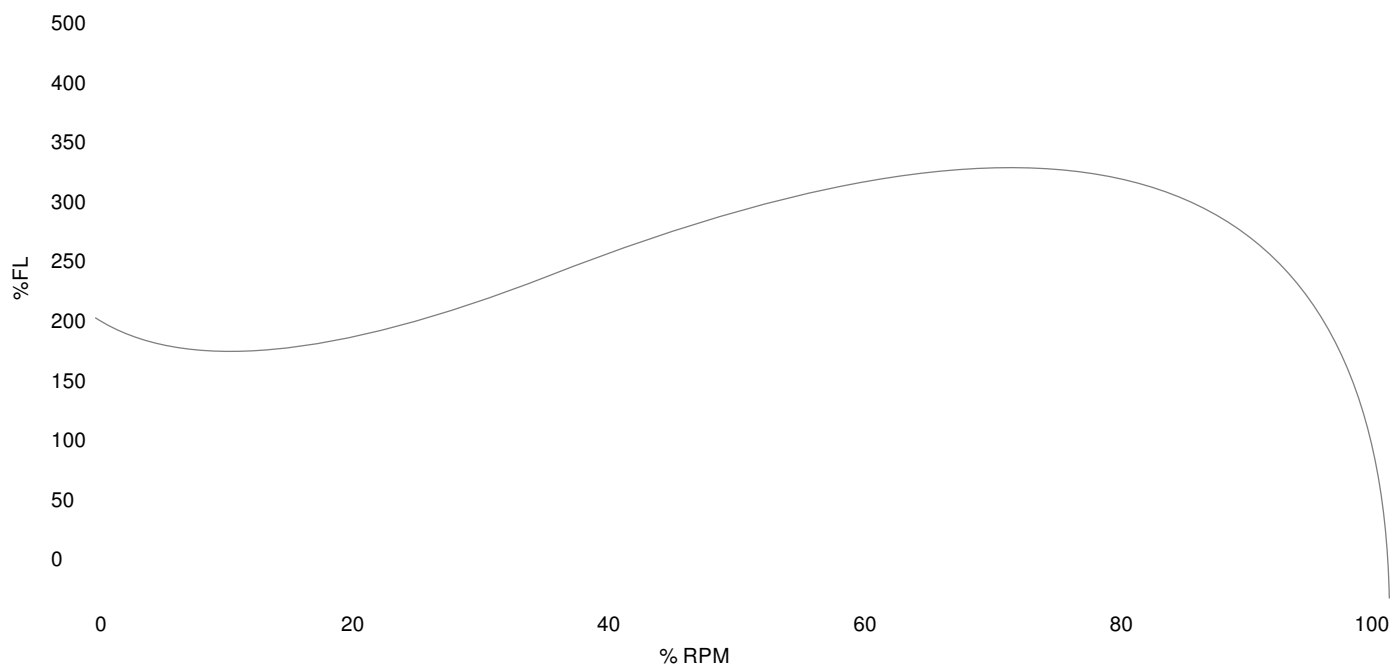
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Premium NEMA Cast Iron, TEFC

Non Sinusoidal (VFD) Output 100.0HP, 1180 RPM

Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

Torque Values	Torque lb-ft	% FLT	Performance Values
Locked Rotor Torque	974.23	217.0	Start Configuration
Pull-Up Torque	682.41	152.0	Starting Current (A)
Breakdown Torque	1117.9	249.0	No-Load Current (A)
Full Load	448.954	100.0	No-Load Power Factor

% Load	Horsepower	Current, Amps	Input power, Kilowatts	Speed, RPM	Efficiency	PF
0	-	33.69	-	-	-	-
25	25.0	42.21	20.42	1197.9	91.83	0.61
50	50.0	63.12	39.53	1195.9	94.86	0.79
75	75.0	86.98	58.9	1193.8	95.51	0.85
100	100.0	113.33	78.55	1191.3	95.48	0.87
125	125.0	130.16	90.49	1189.8	95.31	0.87

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