



NEMA Premium

**NEMA**

<b>MOTOR MODEL:</b>	BR3-CI-TF-444TC-6-RR-E-100
<b>FACTORY TYPE:</b>	TXC

Premium NEMA Cast Iron, TEFC

ELECTRICAL DATA		
	60 Hz	50 Hz
Horsepower	100.0	100.0
Speed, RPM	1180	985
Voltage	460	380
# Phase	3	
Full Load Amps	115.0	-
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	-	-
LRC @ 60Hz HV	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		
<a href="#">BR3-CI-TF-444TC-6-RR-E-100</a>		

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	56			
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 <sup>2</sup> , Lb-Ft <sup>2</sup>	-			
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.



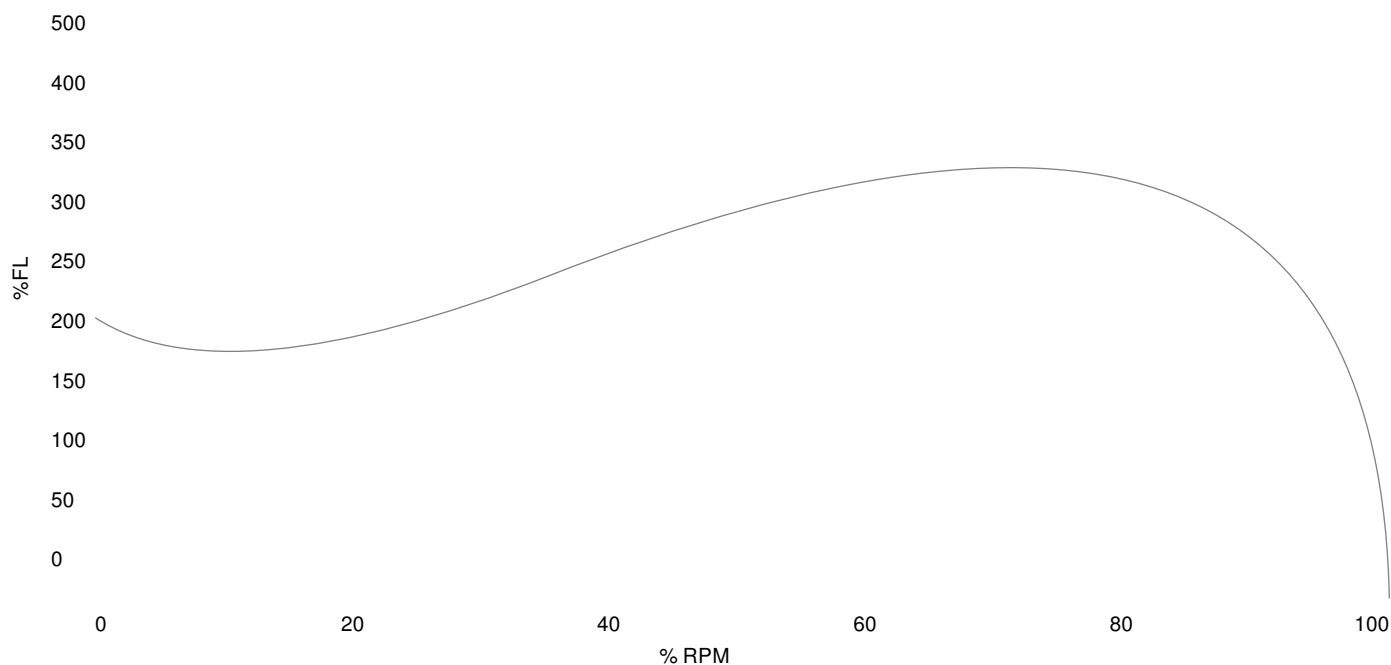
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Torque Speed (T-n) Curve



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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