



NEMA Premium

**NEMA**

<b>MOTOR MODEL:</b>	BR3-CI-TF-444TSC-2-BR-E-125
<b>FACTORY TYPE:</b>	TXC

Premium NEMA Cast Iron, TEFC

ELECTRICAL DATA		
	60 Hz	50 Hz
Horsepower	125.0	125.0
Speed, RPM	3575	2960
Voltage	460	380
# Phase	3	
Full Load Amps	136.8876496	166
Power Factor	0.9	-
Nominal Efficiency	95.0	93.5
3/4 Load Efficiency	-	-
Service Factor	1.15	1.0
KVA Code	M	E
FL Amps. @ 208 V	-	-
Locked Rotor Current	1669.06	-
Start Capacitor	-	
Start Capacitor V	-	
Run Capacitor	-	
Run Capacitor V	-	
Number of Leads	6	
Connection	D	
Coil Resistance	-	
Date Code	-	
Load	Efficiency %	P.F.
50%	93.44	0.85
75%	94.56	0.9
100%	94.81	0.92
FULL LOAD TEMPERATURE RISE		
FL Temp Rise °C	81.0	-
3D Image Link		
<a href="#">BR3-CI-TF-444TSC-2-BR-E-125</a>		

GENERAL DATA				
Frame Size	444TSC			
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	1437.66			
MECHANICAL DATA				
DE Bearing	6316C3			
NDE Bearing	6316C3			
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	693.434		330.0	
Pull-Up Torque	310.995		148.0	
Breakdown Torque	821.614		391.0	
Full Load Torque	210.131		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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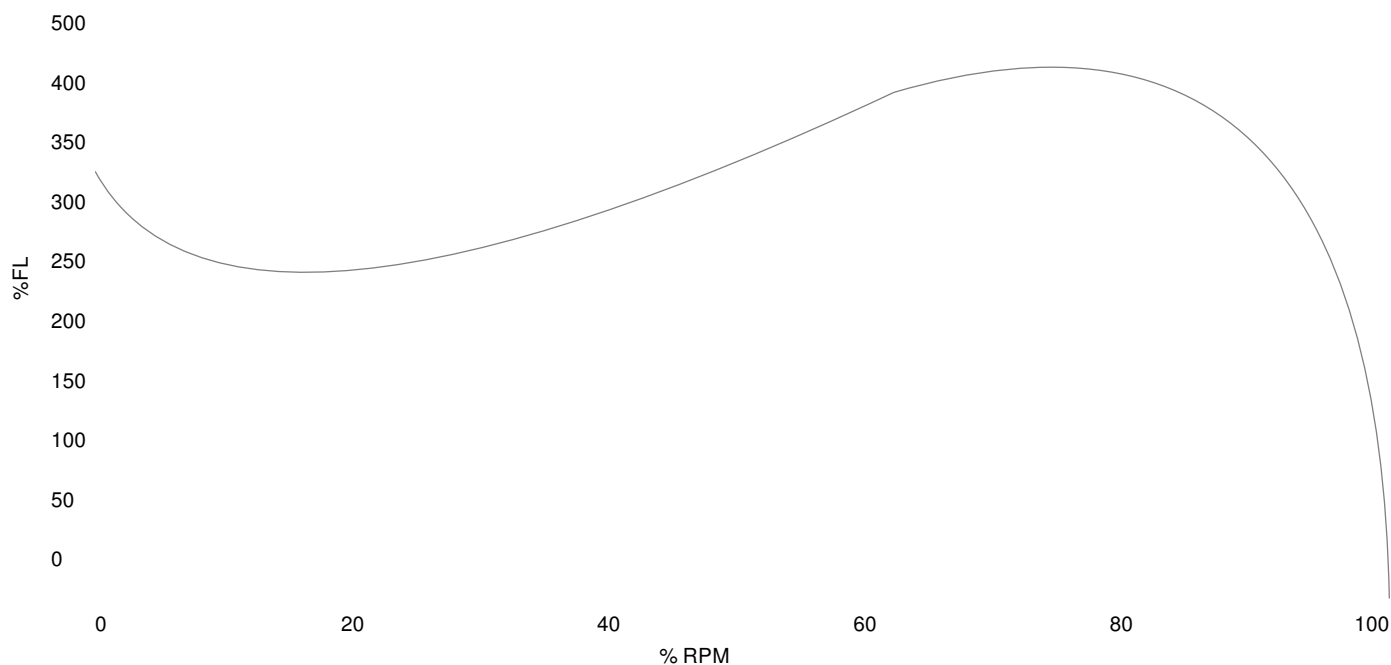
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Premium NEMA Cast Iron, TEFC

Non Sinusoidal (VFD) Output 125.0HP, 3575 RPM

Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

Torque Values	Torque lb-ft	% FLT	Performance Values
Locked Rotor Torque	693.434	330.0	Start Configuration
Pull-Up Torque	310.995	148.0	Starting Current (A)
Breakdown Torque	821.614	391.0	No-Load Current (A)
Full Load	210.131	100.0	No-Load Power Factor

% Load	Horsepower	Current, Amps	Input power, Kilowatts	Speed, RPM	Efficiency	PF
0	-	37.85	-	-	-	-
25	31.25	54.82	30.04	3594.5	89.21	0.89
50	62.5	84.97	57.36	3589.2	93.44	0.85
75	93.75	118.4	85.03	3583.6	94.56	0.9
100	125.0	154.45	113.07	3577.7	94.81	0.92
125	156.25	192.43	141.52	3571.6	94.69	0.92

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