



NEMA Premium

NEMA

MOTOR MODEL:	GR3-CI-TF-444TSC-2-BR-E-125
FACTORY TYPE:	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	-	
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		
Not available for this motor		

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	55	
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 ² , Lb-Ft ²	-	
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	



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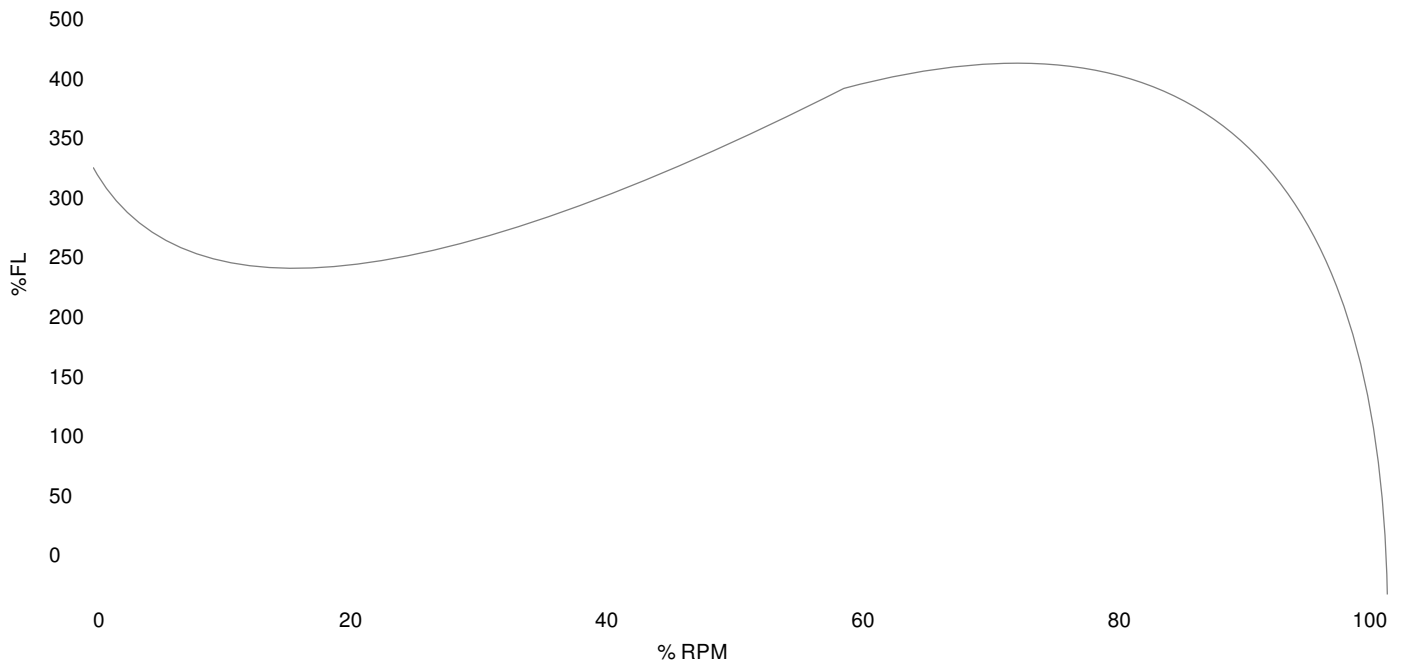
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FACTORY TYPE:	TXC

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

Techtop Industries
 2815 Colonnades Court
 Peachtree Corners, GA 30071
 Tel: 678-436-5540
 E-Mail: info@techttopind.com