



NEMA Premium

**NEMA**

<b>MOTOR MODEL:</b>	GR3-CI-TF-445TSC-2-BR-E-150
<b>FACTORY TYPE:</b>	TXC

Premium NEMA Cast Iron, TEFC

ELECTRICAL DATA		
	60 Hz	50 Hz
Horsepower	150.0	150.0
Speed, RPM	3575	2965
Voltage	460	380
# Phase	3	
Full Load Amps	164.2651796	198
Power Factor	0.91	-
Nominal Efficiency	95.0	93.5
3/4 Load Efficiency	-	-
Service Factor	1.15	1.0
KVA Code	H	E
FL Amps. @ 208 V	-	-
Locked Rotor Current	2244.77	-
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%	94.5	0.84
75%	95.31	0.9
100%	95.4	0.92
FULL LOAD TEMPERATURE RISE		
FL Temp Rise °C	79.0	-
3D Image Link		
Not available for this motor		

GENERAL DATA		
Frame Size	445TSC	
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	1543.5	
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	905.299	359.0
Pull-Up Torque	660.692	262.0
Breakdown Torque	1366.77	542.0
Full Load Torque	252.173	100.0
SITE CONDITIONS		
Ambient Temp °C	40	
Altitude Above Sea Level m	1000	



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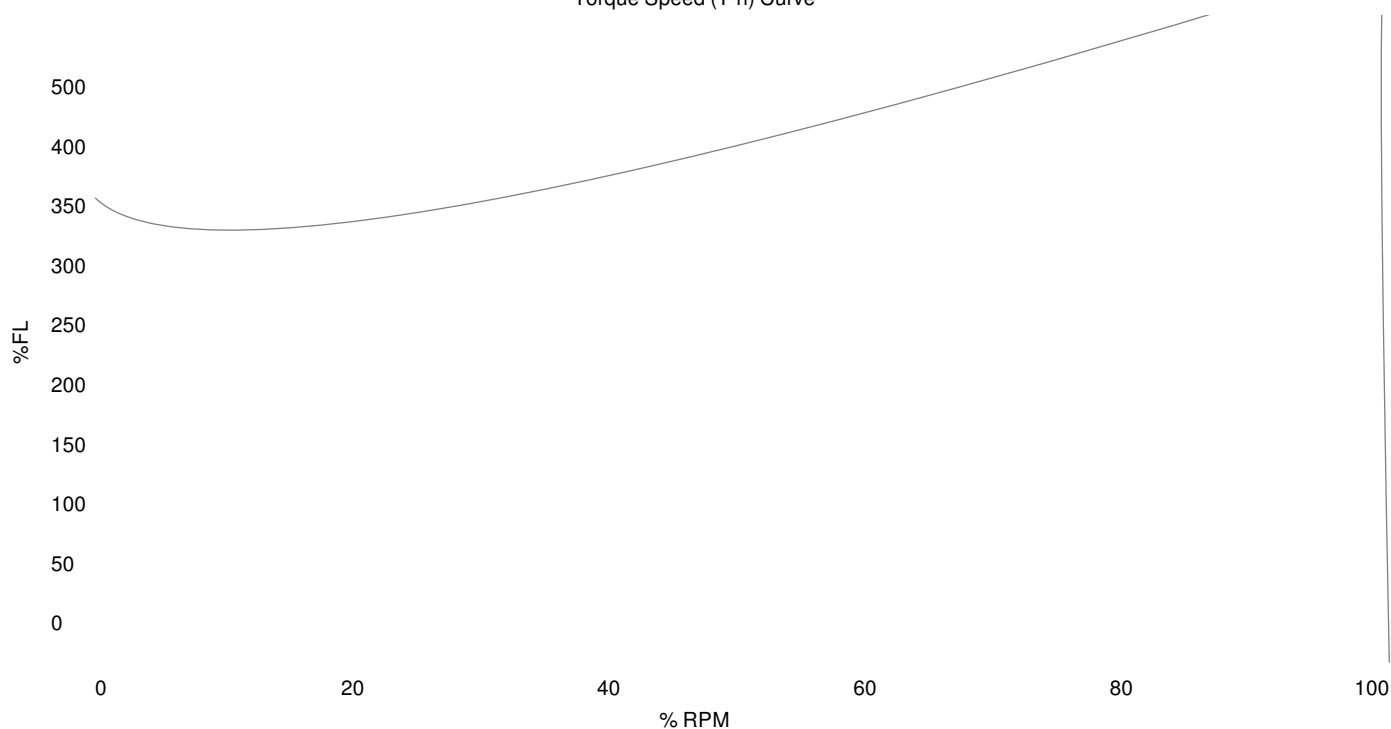
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Premium NEMA Cast Iron, TEFC

Non Sinusoidal (VFD) Output 150.0HP, 3575 RPM

Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

Torque Values	Torque lb-ft	% FLT	Performance Values
Locked Rotor Torque	905.299	359.0	Start Configuration
Pull-Up Torque	660.692	262.0	Starting Current (A)
Breakdown Torque	1366.77	542.0	No-Load Current (A)
Full Load	252.173	100.0	No-Load Power Factor

% Load	Horsepower	Current, Amps	Input power, Kilowatts	Speed, RPM	Efficiency	PF
0	-	46.94	-	-	-	-
25	37.5	66.5	35.33	3595.2	91.08	0.67
50	75.0	101.33	68.1	3590.6	94.5	0.84
75	112.5	141.18	101.28	3585.8	95.31	0.9
100	150.0	184.27	134.9	3580.8	95.4	0.92
125	187.5	210.93	155.28	3577.7	95.32	0.92

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