



NEMA Premium

**NEMA**

<b>MOTOR MODEL:</b>	BR3-CI-TF-365TSC-2-BR-E-75
<b>FACTORY TYPE:</b>	TXC

Premium NEMA Cast Iron, TEFC

ELECTRICAL DATA		
	60 Hz	50 Hz
Horsepower	75.0	75.0
Speed, RPM	3560	2940
Voltage	460	380
# Phase	3	
Full Load Amps	84.3	-
Power Factor	0.9	-
Nominal Efficiency	93.6	91.2
3/4 Load Efficiency	-	-
Service Factor	1.15	1.0
KVA Code	K	F
FL Amps. @ 208 V	-	-
Locked Rotor Current	941.877	-
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%	92.53	0.83
75%	93.68	0.89
100%	93.68	0.89
FULL LOAD TEMPERATURE RISE		
FL Temp Rise °C	62.0	-
3D Image Link		
Not available for this motor		

GENERAL DATA				
Frame Size	365TSC			
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 2"			
Feet Removable	-			
Double Drilled	true			
Paint Color	Graphite Gray			
Paint RAL	7024			
Weight lb	784.98			
MECHANICAL DATA				
DE Bearing	6313C3			
NDE Bearing	6313C3			
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	447.777	408.0		
Pull-Up Torque	210.719	192.0		
Breakdown Torque	409.365	373.0		
Full Load Torque	109.749	100.0		
SITE CONDITIONS				
Ambient Temp °C	40			
Altitude Above Sea Level m	1000			



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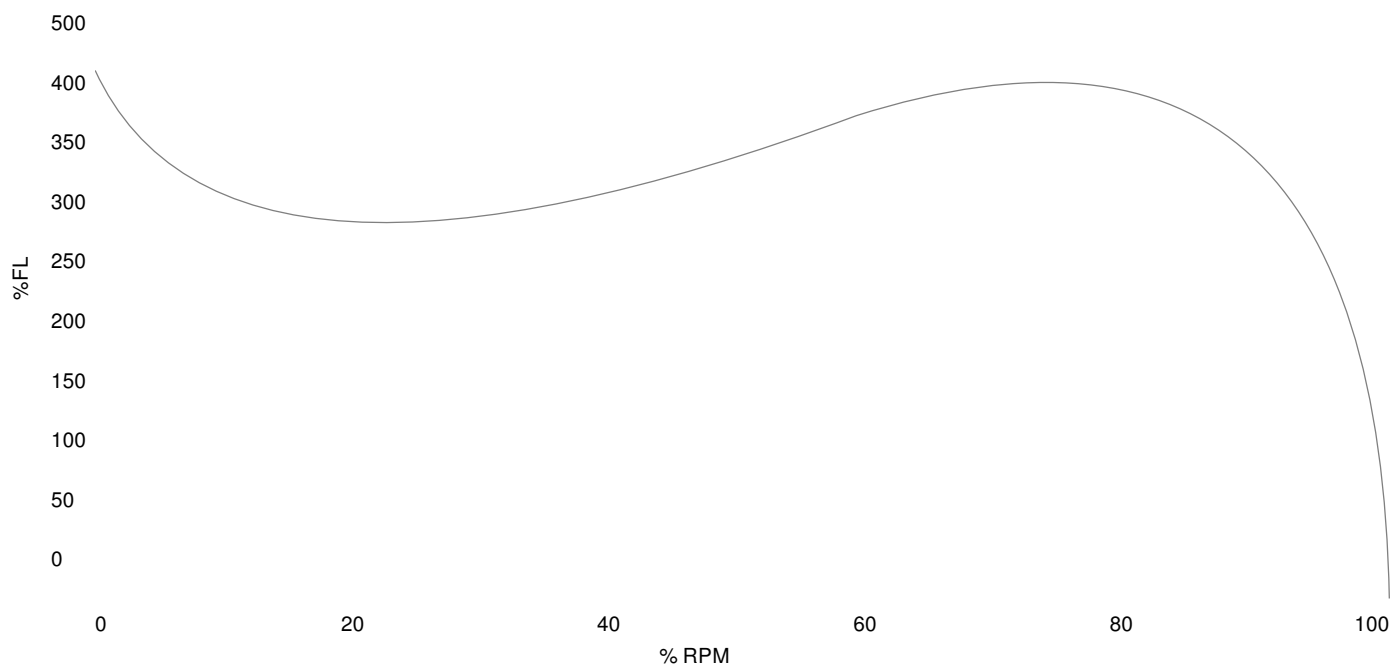
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Premium NEMA Cast Iron, TEFC

Non Sinusoidal (VFD) Output 75.0HP, 3560 RPM

Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

Torque Values	Torque lb-ft	% FLT	Performance Values
Locked Rotor Torque	447.777	408.0	Start Configuration
Pull-Up Torque	210.719	192.0	Starting Current (A)
Breakdown Torque	409.365	373.0	No-Load Current (A)
Full Load	109.749	100.0	No-Load Power Factor

% Load	Horsepower	Current, Amps	Input power, Kilowatts	Speed, RPM	Efficiency	PF
0	-	21.47	-	-	-	-
25	18.75	29.98	15.92	3593.2	87.92	0.67
50	37.5	45.56	30.26	3586.7	92.53	0.83
75	56.25	63.16	44.83	3579.8	93.68	0.89
100	75.0	63.16	44.83	3579.8	93.68	0.89
125	93.75	102.35	74.74	3565.1	93.66	0.92

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