



NEMA Premium

**NEMA**

<b>MOTOR MODEL:</b>	BR3-CI-TF-365TC-4-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	1775	1465
Voltage	460	380
# Phase	3	
Full Load Amps	86.2	-
Power Factor	0.87	-
Nominal Efficiency	95.4	92.5
3/4 Load Efficiency	-	-
Service Factor	1.15	1.0
KVA Code	L	F
FL Amps. @ 208 V	-	-
Locked Rotor Current	829.228	-
Start Capacitor	-	-
Start Capacitor V	-	-
Run Capacitor	-	-
Run Capacitor V	-	-
Number of Leads	12	
Connection	DD/D	
Coil Resistance	-	-
Load	Efficiency %	P.F.
50%	94.91	0.78
75%	95.51	0.85
100%	95.47	0.89
FULL LOAD TEMPERATURE RISE		
FL Temp Rise °C	62.0	-
3D Image Link		
Not available for this motor		

GENERAL DATA			
Frame Size	365TC		
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	873.18		
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	734.712	328.0	
Pull-Up Torque	369.596	165.0	
Breakdown Torque	665.273	297.0	
Full Load Torque	223.998	100.0	
SITE CONDITIONS			
Ambient Temp °C	40		
Altitude Above Sea Level m	1000		

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



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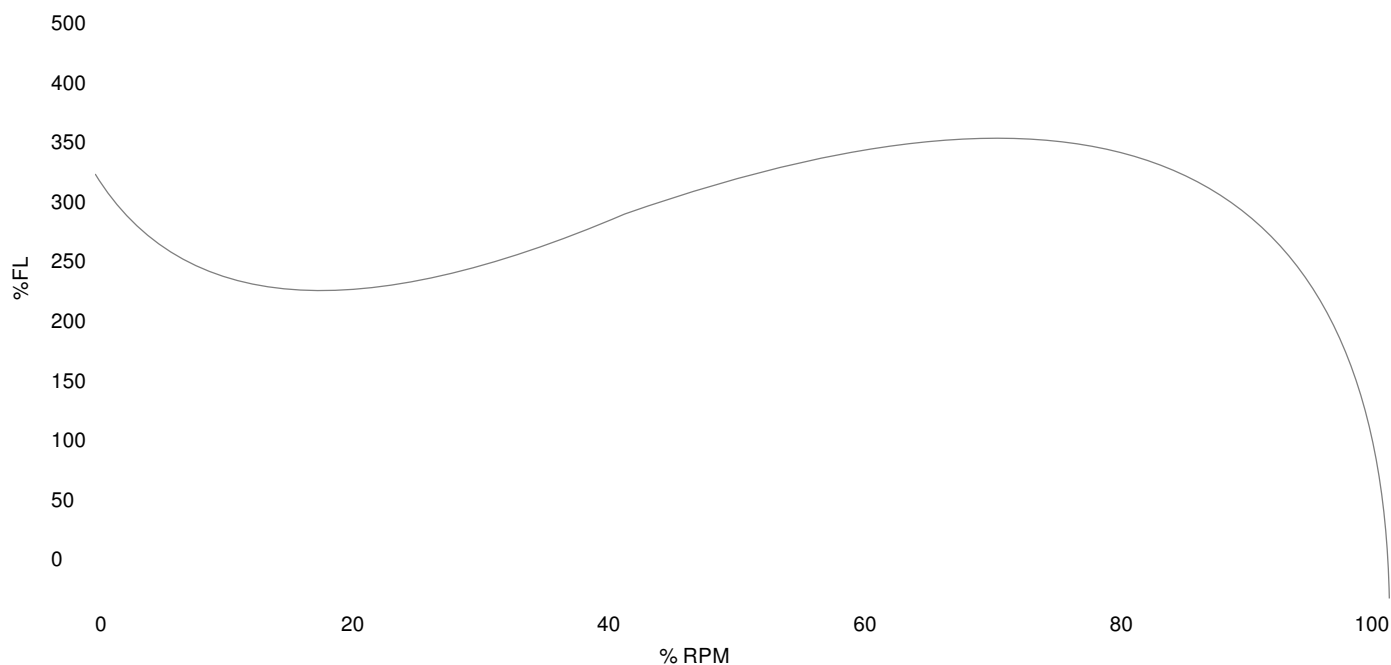
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Premium NEMA Cast Iron, TEFC

Non Sinusoidal (VFD) Output 75.0HP, 1775 RPM

Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

Torque Values	Torque lb-ft	% FLT	Performance Values
Locked Rotor Torque	734.712	328.0	Start Configuration
Pull-Up Torque	369.596	165.0	Starting Current (A)
Breakdown Torque	665.273	297.0	No-Load Current (A)
Full Load	223.998	100.0	No-Load Power Factor

% Load	Horsepower	Current, Amps	Input power, Kilowatts	Speed, RPM	Efficiency	PF
0	-	27.82	-	-	-	-
25	18.75	32.3	15.16	1795.3	92.0	0.59
50	37.5	47.4	29.4	1790.9	94.91	0.78
75	56.25	64.34	43.82	1786.2	95.51	0.85
100	75.0	82.84	58.45	1781.2	95.47	0.89
125	93.75	102.61	73.31	1775.9	95.15	0.9

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