



NEMA Premium

**NEMA**

<b>MOTOR MODEL:</b>	BR3-CI-TF-405TS-2-BR-E-100
<b>FACTORY TYPE:</b>	TXC

Premium NEMA Cast Iron, TEFC

ELECTRICAL DATA		
	60 Hz	50 Hz
Horsepower	100.0	100.0
Speed, RPM	3570	2950
Voltage	460	380
# Phase	3	
Full Load Amps	10	-
Power Factor	0.9	-
Nominal Efficiency	94.1	92.5
3/4 Load Efficiency	-	-
Service Factor	1.15	1.0
KVA Code	K	E
FL Amps. @ 208 V	-	-
Locked Rotor Current	1031.34	-
Start Capacitor	-	
Start Capacitor V	-	
Run Capacitor	-	
Run Capacitor V	-	
Number of Leads	12	
Connection	DD/D	
Coil Resistance	-	
Load	Efficiency %	P.F.
50%	92.96	0.86
75%	93.96	0.9
100%	94.05	0.91
FULL LOAD TEMPERATURE RISE		
FL Temp Rise °C	67.0	-
3D Image Link		
<a href="#">BR3-CI-TF-405TS-2-BR-E-100</a>		

GENERAL DATA		
Frame Size	405TS	
Frame Enclosure	TEFC	
Mounting	Rigid	
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	1020.91	
MECHANICAL DATA		
DE Bearing	6314C3	
NDE Bearing	6314C3	
dB No-Load	-	
Rotor Wk <sup>2</sup> , Lb-Ft <sup>2</sup>	-	
Comp Ring (wavy washer)	DE	
TORQUE VALUES	Torque lb-ft	% FLT
Locked Rotor Torque	479.374	324.0
Pull-Up Torque	303.308	205.0
Breakdown Torque	449.783	304.0
Full Load Torque	147.955	100.0
SITE CONDITIONS		
Ambient Temp °C	40	
Altitude Above Sea Level m	1000	



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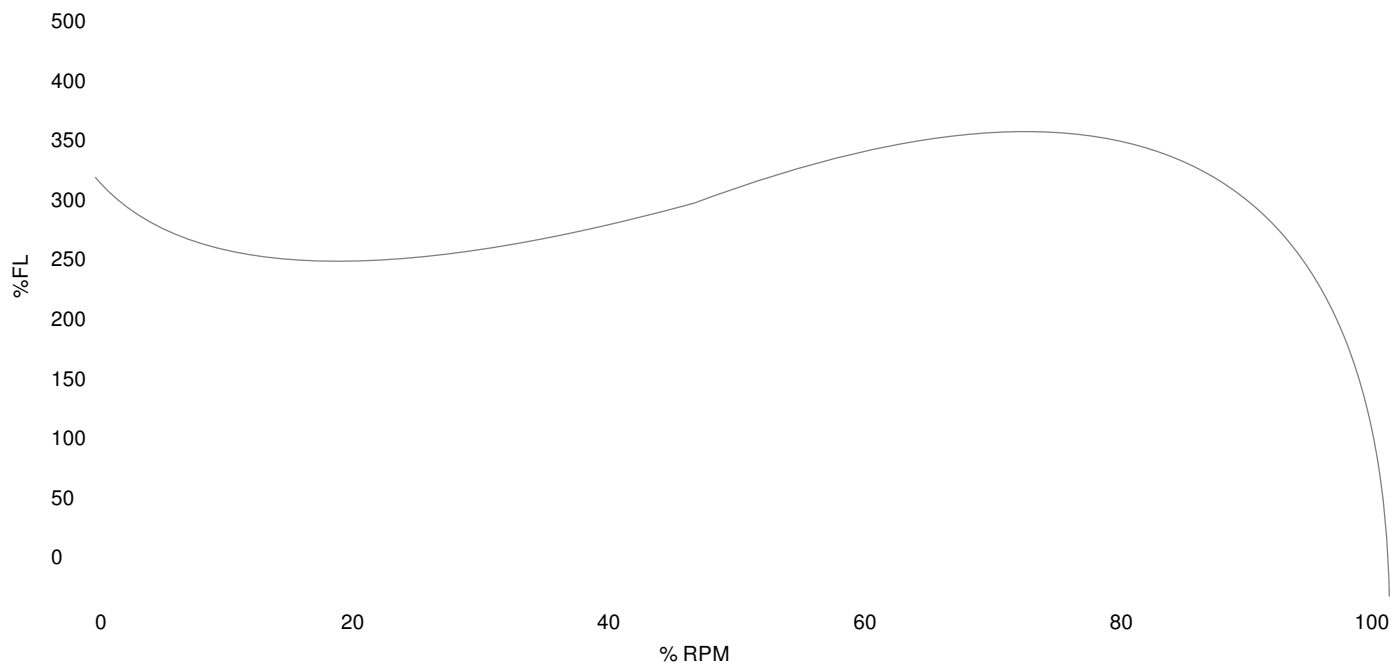
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Non Sinusoidal (VFD) Output 100.0HP, 3570 RPM

Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

Torque Values	Torque lb-ft	% FLT	Performance Values	
Locked Rotor Torque	479.374	324.0	Start Configuration	-
Pull-Up Torque	303.308	205.0	Starting Current (A)	-
Breakdown Torque	449.783	304.0	No-Load Current (A)	-
Full Load	147.955	100.0	No-Load Power Factor	-

% Load	Horsepower	Current, Amps	Input power, Kilowatts	Speed, RPM	Efficiency	PF
0	-	24.33	-	-	-	-
25	25.0	36.85	21.13	3592.6	88.75	0.72
50	50.0	59.11	40.34	3585.3	92.96	0.86
75	75.0	83.45	59.87	3577.4	93.96	0.9
100	100.0	109.64	79.74	3568.9	94.05	0.91
125	125.0	137.44	100.0	3559.8	93.75	0.91

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