NEMA Premium

NEMA

MOTOR MODEL:	BR3-CI-TF-405TSC-2-BR-E-100
FACTORY TYPE:	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	110.0	-
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	-	-
LRC @ 60Hz HV	1031.34	-
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%	92.96	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
BR3-CI-TF-405TSC-2-BR-E-100

*This report valid for above Date Code and newer models, please contact Techtop for more info.

GENERAL DATA	
Frame Size	405TSC
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 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 Wk², Lb-Ft²	-
Comp Ring (wavey washer)	-

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

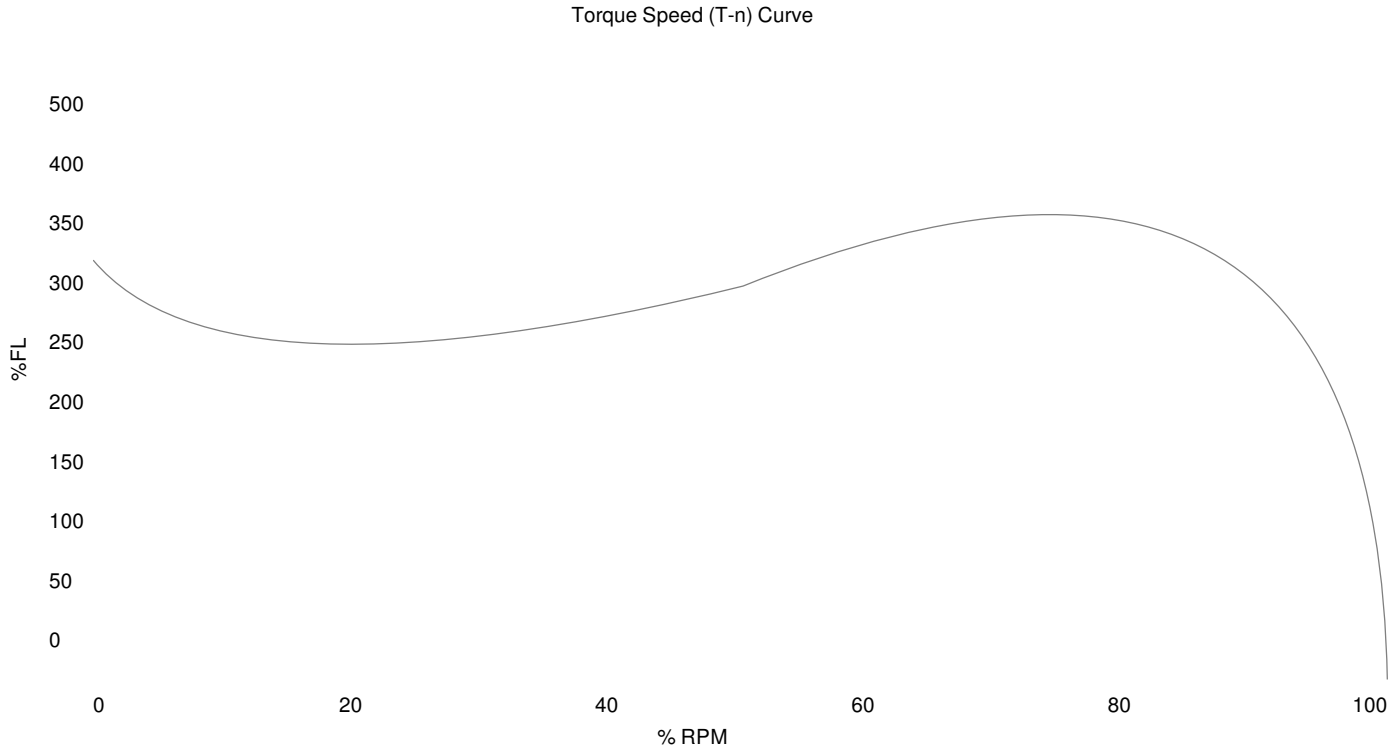
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Performance Load Values, High Voltage, 60Hz

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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