NEMA Premium

NEMA

MOTOR MODEL:	BR3-CI-TF-405T-4-BR-E-100
FACTORY TYPE:	TXC

Premium NEMA Cast Iron, TEFC

ELECTRICAL DATA		
	60 Hz	50 Hz
Horsepower	100.0	100.0
Speed, RPM	1780	1480
Voltage	460	380
# Phase	3	
Full Load Amps	115.47	135
Power Factor	0.86	-
Nominal Efficiency	95.4	93.4
3/4 Load Efficiency	-	-
Service Factor	1.15	1.0
KVA Code	K	E
FL Amps. @ 208 V	-	-
LRC @ 60Hz HV	1130.03	-
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%	94.75	0.76
75%	95.29	0.84
100%	95.15	0.87
FULL LOAD TEMPERATURE RISE		
FL Temp Rise °C	70.0	-
3D Image Link		
BR3-CI-TF-405T-4-BR-E-100		

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

GENERAL DATA	
Frame Size	405T
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	1025.32
MECHANICAL DATA	
DE Bearing	6316C3
NDE Bearing	6314C3
dB No-Load	-
Rotor Wk^2, $Lb\text{-}Ft^2$	-
Comp Ring (wavey washer)	DE

TORQUE VALUES	Torque lb-ft	% FLT
Locked Rotor Torque	976.789	332.0
Pull-Up Torque	291.271	99.0
Breakdown Torque	453.089	154.0
Full Load Torque	294.214	100.0
SITE CONDITIONS		
Ambient Temp °C	40	
Altitude Above Sea Level m	1000	

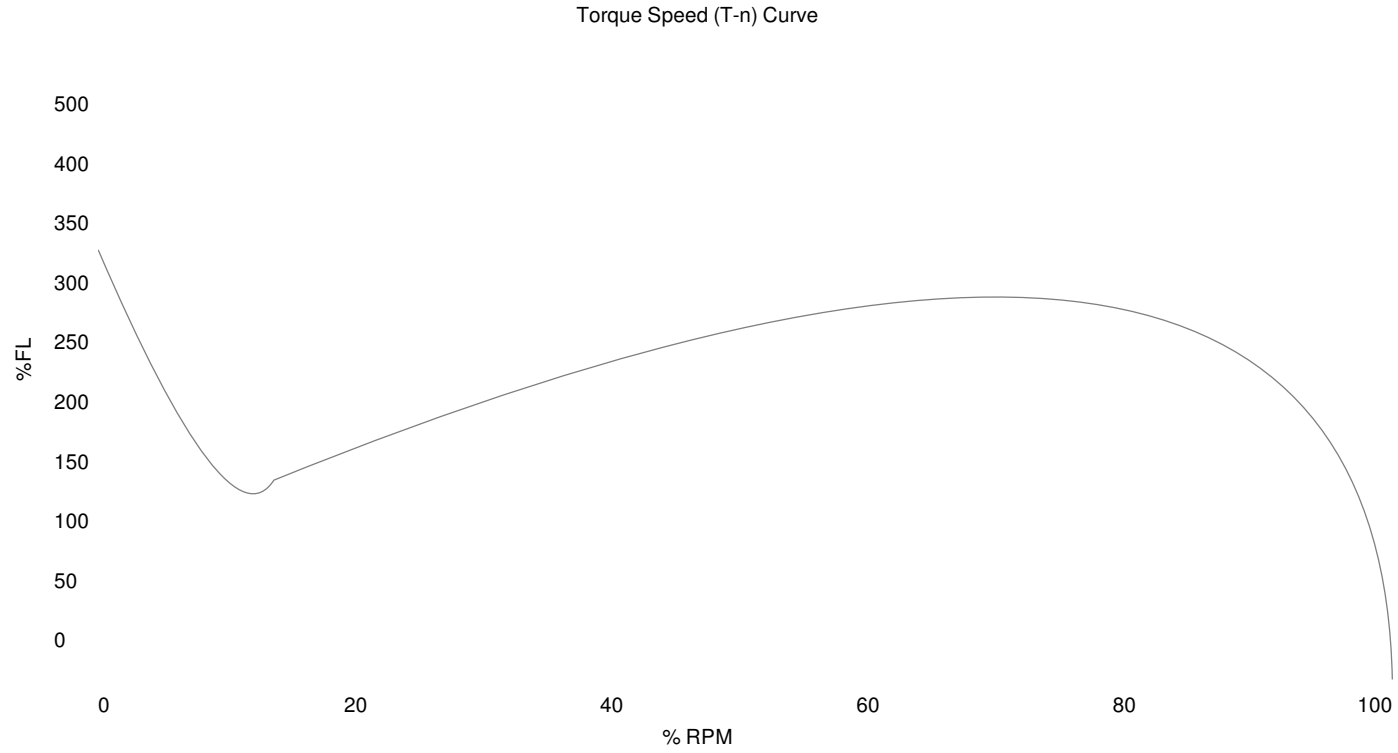
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Performance Load Values, High Voltage, 60Hz

Torque Values	Torque lb-ft	% FLT	Performance Values	
Locked Rotor Torque	976.789	332.0	Start Configuration	-
Pull-Up Torque	291.271	99.0	Starting Current (A)	-
Breakdown Torque	453.089	154.0	No-Load Current (A)	-
Full Load	294.214	100.0	No-Load Power Factor	-

% Load	Horsepower	Current, Amps	Input power, Kilowatts	Speed, RPM	Efficiency	PF
0	-	41.22	-	-	-	-
25	25.0	48.74	20.43	1796.0	91.8	0.53
50	50.0	65.67	39.58	1791.9	94.75	0.76
75	75.0	87.99	59.03	1787.6	95.29	0.84
100	100.0	113.85	78.83	1783.1	95.15	0.87
125	125.0	141.43	98.97	1778.3	94.72	0.88

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