



NEMA Premium

NEMA

MOTOR MODEL:	BR3-CI-TF-324TSC-2-BR-E-40
FACTORY TYPE:	TXC

Premium NEMA Cast Iron, TEFC

ELECTRICAL DATA		
	60 Hz	50 Hz
Horsepower	40.0	40.0
Speed, RPM	3560	2940
Voltage	460	380
# Phase	3	
Full Load Amps	46.5	-
Power Factor	0.89	-
Nominal Efficiency	92.4	90.0
3/4 Load Efficiency	-	-
Service Factor	1.25	1.0
KVA Code	H	F
FL Amps. @ 208 V	-	-
Locked Rotor Current	344.434	-
Start Capacitor	-	
Start Capacitor V	-	
Run Capacitor	-	
Run Capacitor V	-	
Number of Leads	12	
Connection	DD/D	
Coil Resistance	-	
Load	Efficiency %	P.F.
50%	90.37	0.82
75%	91.99	0.88
100%	92.34	0.9
FULL LOAD TEMPERATURE RISE		
FL Temp Rise °C	67.0	-
3D Image Link		
Not available for this motor		

GENERAL DATA		
Frame Size	324TSC	
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	true	
Double Drilled	-	
Paint Color	Graphite Gray	
Paint RAL	7024	
Weight lb	485.1	
MECHANICAL DATA		
DE Bearing	6312C3	
NDE Bearing	6312C3	
dB No-Load	-	
Rotor Wk ² , Lb-Ft ²	-	
Comp Ring (wavy washer)	-	
TORQUE VALUES	Torque lb-ft	% FLT
Locked Rotor Torque	140.239	235.0
Pull-Up Torque	74.5952	125.0
Breakdown Torque	140.836	236.0
Full Load Torque	59.6762	100.0
SITE CONDITIONS		
Ambient Temp °C	40	
Altitude Above Sea Level m	1000	



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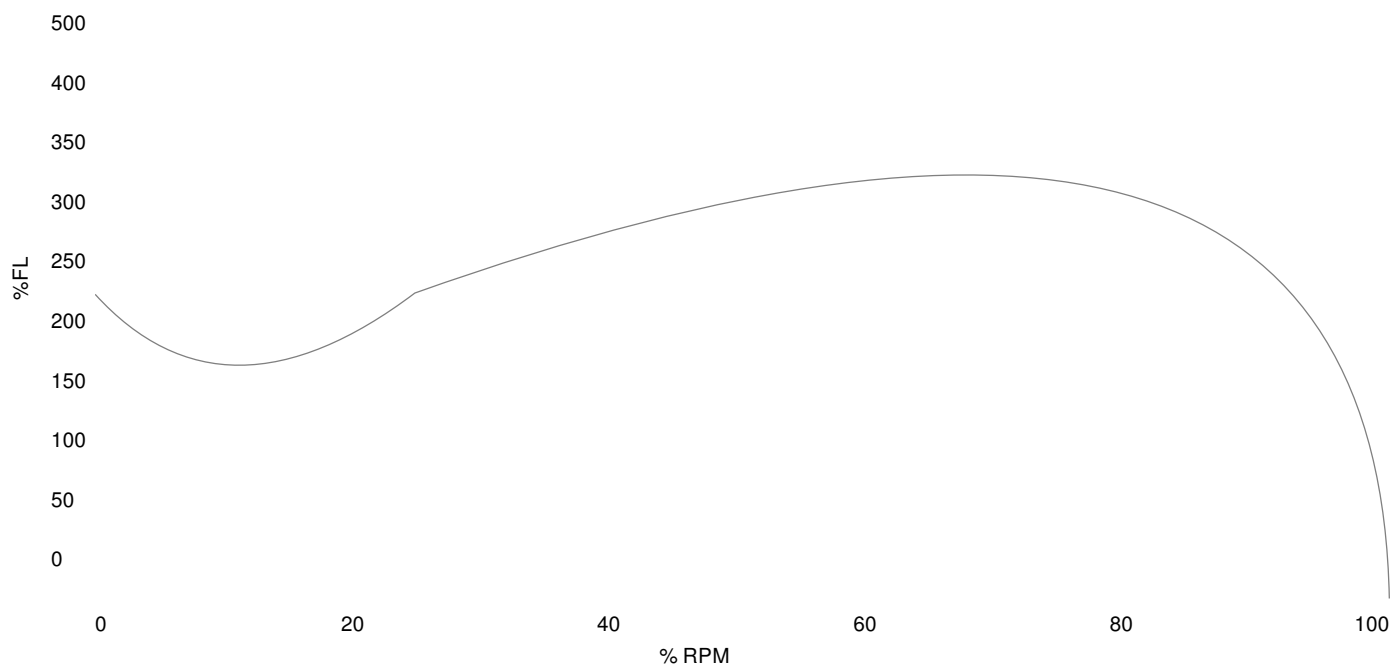
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Non Sinusoidal (VFD) Output 40.0HP, 3560 RPM

Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

Torque Values	Torque lb-ft	% FLT	Performance Values
Locked Rotor Torque	140.239	235.0	Start Configuration
Pull-Up Torque	74.5952	125.0	Starting Current (A)
Breakdown Torque	140.836	236.0	No-Load Current (A)
Full Load	59.6762	100.0	No-Load Power Factor

% Load	Horsepower	Current, Amps	Input power, Kilowatts	Speed, RPM	Efficiency	PF
0	-	12.48	-	-	-	-
25	10.0	16.87	8.88	3588.8	84.46	0.66
50	20.0	25.43	16.6	3578.7	90.37	0.82
75	30.0	35.03	24.46	3567.6	91.99	0.88
100	40.0	45.56	32.49	3555.4	92.34	0.9
125	50.0	56.88	40.71	3542.2	92.13	0.9

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