



NEMA Premium

**NEMA**

<b>MOTOR MODEL:</b>	GR3-CI-TF-324TC-4-BR-D-40
<b>FACTORY TYPE:</b>	TXC

Premium NEMA Cast Iron, TEFC

ELECTRICAL DATA		
	60 Hz	50 Hz
Horsepower	40.0	40.0
Speed, RPM	1770	1460
Voltage	230/460	190/380
# Phase	3	
Full Load Amps	97.07/48.54	110/55
Power Factor	0.86	-
Nominal Efficiency	94.1	91.5
3/4 Load Efficiency	-	-
Service Factor	1.25	1.0
KVA Code	L	F
FL Amps. @ 208 V	107.342	-
Locked Rotor Current	496.313	-
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%	93.22	0.73
75%	93.77	0.82
100%	93.48	0.86
FULL LOAD TEMPERATURE RISE		
FL Temp Rise °C	78.0	-
3D Image Link		
Not available for this motor		

GENERAL DATA		
Frame Size	324TC	
Frame Enclosure	TEFC	
Mounting	Rigid/C-Flange	
Insulation Class	F	
Duty	Cont. / S1	
NEMA Design	A	
Frame Material	Cast Iron	
Ingress Protection	55	
Tropicalization	true	
Cable Entry	1-NPT 2"	
Feet Removable	true	
Double Drilled	-	
Paint Color	Graphite Gray	
Paint RAL	7024	
Weight lb	539.122	
MECHANICAL DATA		
DE Bearing	6312C3	
NDE Bearing	6312C3	
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	430.673	317.0
Pull-Up Torque	249.98	184.0
Breakdown Torque	400.784	295.0
Full Load Torque	135.859	100.0
SITE CONDITIONS		
Ambient Temp °C	40	
Altitude Above Sea Level m	1000	



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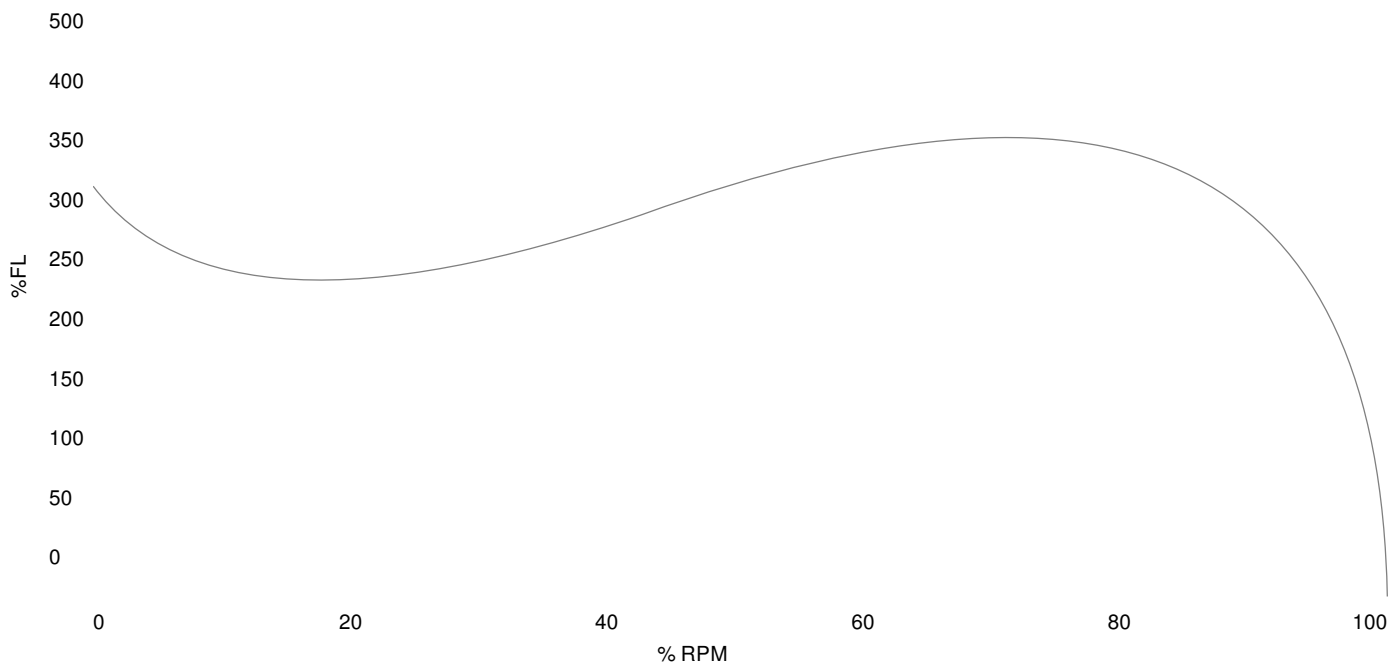
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Premium NEMA Cast Iron, TEFC

Non Sinusoidal (VFD) Output 40.0HP, 1770 RPM

Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

Torque Values	Torque lb-ft	% FLT	Performance Values
Locked Rotor Torque	430.673	317.0	Start Configuration
Pull-Up Torque	249.98	184.0	Starting Current (A)
Breakdown Torque	400.784	295.0	No-Load Current (A)
Full Load	135.859	100.0	No-Load Power Factor

% Load	Horsepower	Current, Amps	Input power, Kilowatts	Speed, RPM	Efficiency	PF
0	-	20.61	-	-	-	-
25	10.0	23.81	9.61	1795.1	89.75	0.51
50	20.0	31.86	18.5	1790.4	93.22	0.73
75	30.0	42.04	27.59	1785.3	93.77	0.82
100	40.0	53.83	36.91	1779.7	93.48	0.86
125	50.0	66.72	46.47	1773.8	92.81	0.87

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