



Pump Motors

NEMA

MOTOR MODEL:	GR3-CI-TF-324JM-4-BR-D-40
FACTORY TYPE:	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	-
LRC @ 60Hz HV	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	324JM		
Frame Enclosure	TEFC		
Mounting	Rigid		
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 ² , Lb-Ft ²	-		
Comp Ring (wavey washer)	NDE		
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	

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



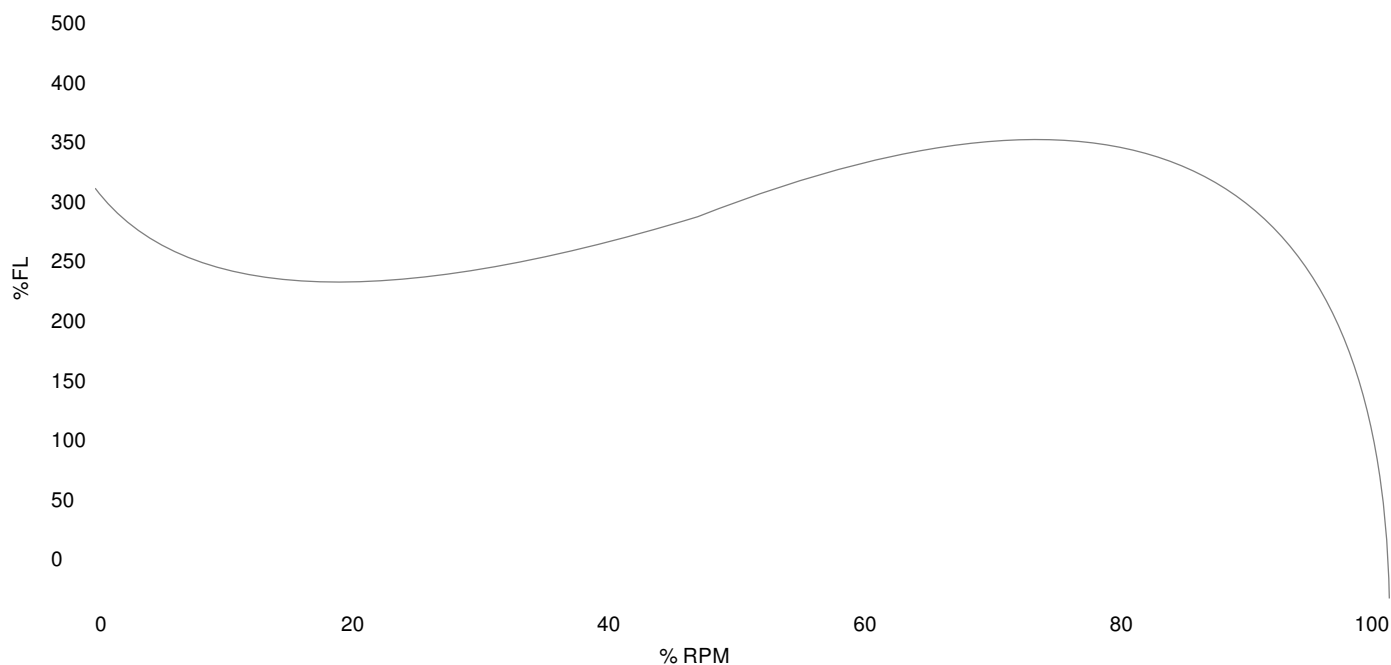
Pump Motors

NEMA

MOTOR MODEL:	GR3-CI-TF-324JM-4-BR-D-40
FACTORY TYPE:	TXC

Premium NEMA Cast Iron, TEFC

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

Techtop Industries
 2815 Colonnades Court
 Peachtree Corners, GA 30071
 Tel: 678-436-5540
 E-Mail: info@techttopind.com