



# Pump Motors

## NEMA

<b>MOTOR MODEL:</b>	GR3-AL-TF-182JM-2-B-D-3
<b>FACTORY TYPE:</b>	TXA

### Premium NEMA Cast Aluminum, TEFC

ELECTRICAL DATA		
	60 Hz	50 Hz
Horsepower	3.0	3.0
Speed, RPM	3515	2900
Voltage	230/460	190/380
# Phase	3	
Full Load Amps	7.17/3.59	8.38/4.19
Power Factor	0.89	-
Nominal Efficiency	86.5	86.2
3/4 Load Efficiency	-	-
Service Factor	1.25	1.0
KVA Code	K	H
FL Amps. @ 208 V	7.77	-
Locked Rotor Current	33.3216	-
Start Capacitor	-	
Start Capacitor V	-	
Run Capacitor	-	
Run Capacitor V	-	
Number of Leads	9	
Connection	YY/Y	
Coil Resistance	-	
Load	Efficiency %	P.F.
50%	84.23	0.77
75%	86.43	0.86
100%	86.72	0.9
FULL LOAD TEMPERATURE RISE		
FL Temp Rise °C	37.0	37.0
3D Image Link		
Not available for this motor		

GENERAL DATA		
Frame Size	182JM	
Frame Enclosure	TEFC	
Mounting	Rigid	
Insulation Class	F	
Duty	Cont. / S1	
NEMA Design	A	
Frame Material	Cast Aluminum	
Ingress Protection	55	
Tropicalization	true	
Cable Entry	1-NPT 3/4"	
Feet Removable	true	
Double Drilled	-	
Paint Color	Graphite Gray	
Paint RAL	7024	
Weight lb	50.0	
MECHANICAL DATA		
DE Bearing	6306ZZ	
NDE Bearing	6206ZZ	
dB No-Load	-	
Rotor Wk <sup>2</sup> , Lb-Ft <sup>2</sup>	-	
Comp Ring (wavy washer)	NDE	
TORQUE VALUES		% FLT
Locked Rotor Torque	11.1842	254.0
Pull-Up Torque	5.54809	126.0
Breakdown Torque	15.6315	355.0
Full Load Torque	4.40325	100.0
SITE CONDITIONS		
Ambient Temp °C	40	
Altitude Above Sea Level m	1000	



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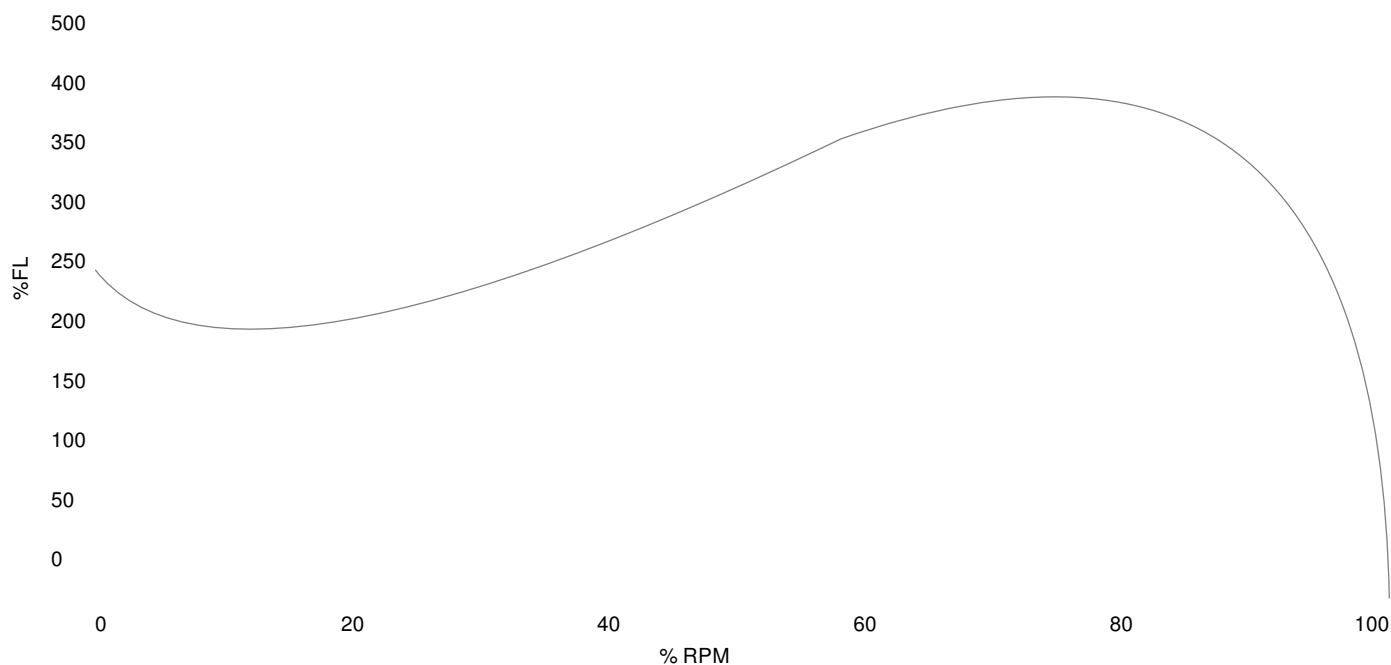
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<b>FACTORY TYPE:</b>	TXA

### Premium NEMA Cast Aluminum, TEFC

Non Sinusoidal (VFD) Output 3.0HP, 3515 RPM

Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

Torque Values	Torque lb-ft	% FLT	Performance Values
Locked Rotor Torque	11.1842	254.0	Start Configuration
Pull-Up Torque	5.54809	126.0	Starting Current (A)
Breakdown Torque	15.6315	355.0	No-Load Current (A)
Full Load	4.40325	100.0	No-Load Power Factor

% Load	Horsepower	Current, Amps	Input power, Kilowatts	Speed, RPM	Efficiency	PF
0	-	1.31	-	-	-	-
25	0.75	1.58	723.3	3579.3	76.04	0.58
50	1.5	2.13	1306.0	3561.2	84.23	0.77
75	2.25	2.79	1909.0	3541.2	86.43	0.86
100	3.0	3.56	2537.0	3519.6	86.72	0.9
125	3.75	4.39	3194.0	3496.3	86.1	0.91

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