

# NEMA

<b>MOTOR MODEL:</b>	GR3-AL-TF-213JM-2-B-D-7.5
<b>FACTORY TYPE:</b>	TXA

## Premium NEMA Cast Aluminum, TEFC

ELECTRICAL DATA		
	60 Hz	50 Hz
Horsepower	7.5	7.5
Speed, RPM	3520	2910
Voltage	230/460	190/380
# Phase	3	
Full Load Amps	17.0/8.48	19.9/9.95
Power Factor	0.91	-
Nominal Efficiency	89.5	88.5
3/4 Load Efficiency	-	-
Service Factor	1.25	1.0
KVA Code	K	H
FL Amps. @ 208 V	18.7	-
Locked Rotor Current	188.462	-
Start Capacitor	-	
Start Capacitor V	-	
Run Capacitor	-	
Run Capacitor V	-	
Number of Leads	9	
Connection	YY/Y	
Coil Resistance	-	
<b>Load</b>	<b>Efficiency %</b>	<b>P.F.</b>
50%	88.01	0.79
75%	90.04	0.86
100%	90.54	0.89
FULL LOAD TEMPERATURE RISE		
FL Temp Rise °C	34.9	43.3
3D Image Link		
Not available for this motor		

GENERAL DATA		
Frame Size	213JM	
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 1"	
Feet Removable	true	
Double Drilled	-	
Paint Color	Graphite Gray	
Paint RAL	7024	
Weight lb	95.0	
MECHANICAL DATA		
DE Bearing	6308ZZ	
NDE Bearing	6208ZZ	
dB No-Load	-	
Rotor Wk <sup>2</sup> , Lb-Ft <sup>2</sup>	-	
Comp Ring (wavy washer)	NDE	
TORQUE VALUES		
	<b>Torque lb-ft</b>	<b>% FLT</b>
Locked Rotor Torque	38.6162	354.0
Pull-Up Torque	11.5631	106.0
Breakdown Torque	45.925	421.0
Full Load Torque	10.9085	100.0
SITE CONDITIONS		
Ambient Temp °C	40	
Altitude Above Sea Level m	1000	



## Pump Motors

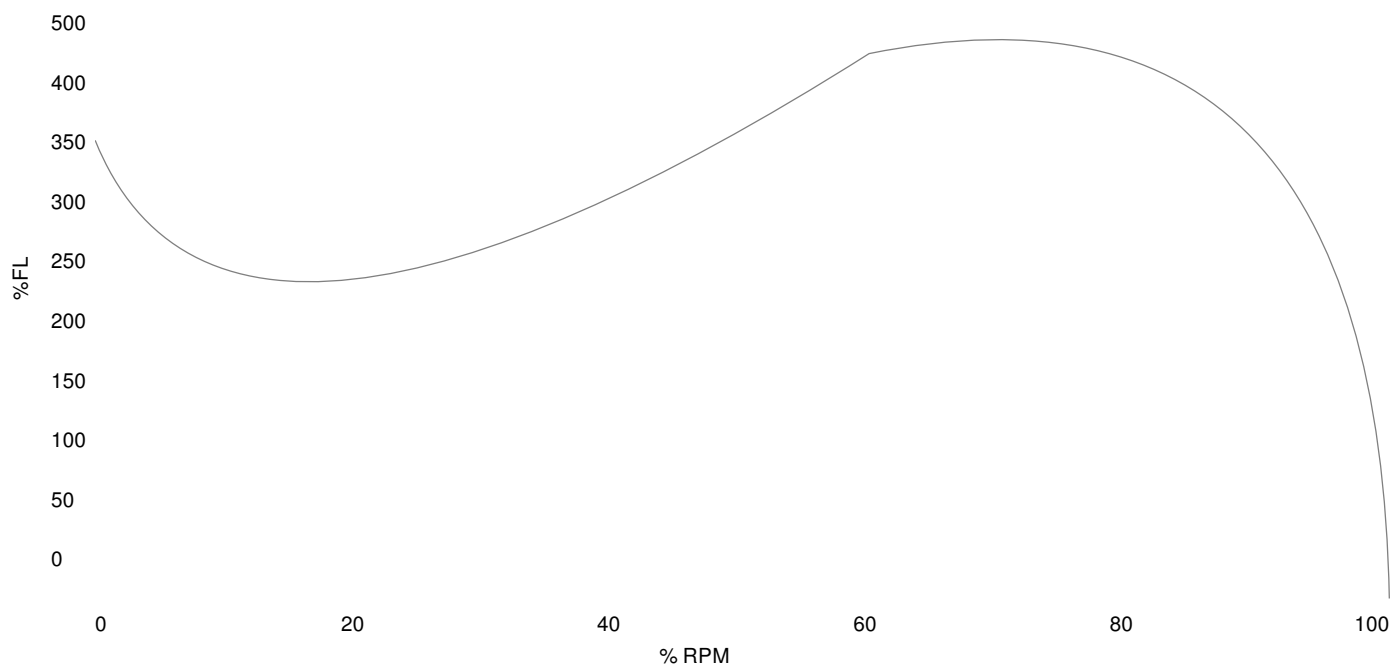
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Non Sinusoidal (VFD) Output 7.5HP, 3520 RPM

Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

Torque Values	Torque lb-ft	% FLT	Performance Values
Locked Rotor Torque	38.6162	354.0	Start Configuration
Pull-Up Torque	11.5631	106.0	Starting Current (A)
Breakdown Torque	45.925	421.0	No-Load Current (A)
Full Load	10.9085	100.0	No-Load Power Factor

% Load	Horsepower	Current, Amps	Input power, Kilowatts	Speed, RPM	Efficiency	PF
0	-	5.78	-	-	-	-
25	1.875	7.16	1700.8	3584.8	80.84	0.6
50	3.75	9.98	3124.7	3571.1	88.01	0.79
75	5.625	13.32	4581.2	3556.7	90.04	0.86
100	7.5	17.04	6074.7	3541.5	90.54	0.89
125	9.375	21.03	7608.1	3525.5	90.36	0.91

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