



## Pump Motors

# NEMA

<b>MOTOR MODEL:</b>	GR3-AL-TF-145JM-4-B-D-1.5
<b>FACTORY TYPE:</b>	TXA

### Premium NEMA Cast Aluminum, TEFC

ELECTRICAL DATA		
	60 Hz	50 Hz
Horsepower	1.5	1.5
Speed, RPM	1740	1430
Voltage	230/460	190/380
# Phase	3	
Full Load Amps	4.36/2.18	5.06/2.53
Power Factor	0.74	-
Nominal Efficiency	86.5	84.7
3/4 Load Efficiency	-	-
Service Factor	1.25	1.0
KVA Code	K	H
FL Amps. @ 208 V	4.48	-
Locked Rotor Current	17.4528	-
Start Capacitor	-	
Start Capacitor V	-	
Run Capacitor	-	
Run Capacitor V	-	
Number of Leads	9	
Connection	YY/Y	
Coil Resistance	-	
Date Code	-	
Load	Efficiency %	P.F.
50%	84.56	0.53
75%	86.79	0.67
100%	87.1	0.75
FULL LOAD TEMPERATURE RISE		
FL Temp Rise °C	21.8	21.8
3D Image Link		
Not available for this motor		

GENERAL DATA		
Frame Size	145JM	
Frame Enclosure	TEFC	
Mounting	Rigid	
Insulation Class	F	
Duty	Cont. / S1	
NEMA Design	B	
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	34.5	
MECHANICAL DATA		
DE Bearing	6205ZZ	
NDE Bearing	6205ZZ	
dB No-Load	-	
Rotor Wk <sup>2</sup> , Lb-Ft <sup>2</sup>	-	
Comp Ring (wavey washer)	NDE	
TORQUE VALUES		
	Torque lb-ft	% FLT
Locked Rotor Torque	16.1544	351.0
Pull-Up Torque	14.8197	322.0
Breakdown Torque	18.9158	411.0
Full Load Torque	4.60239	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 Techtop for more info.



## Pump Motors

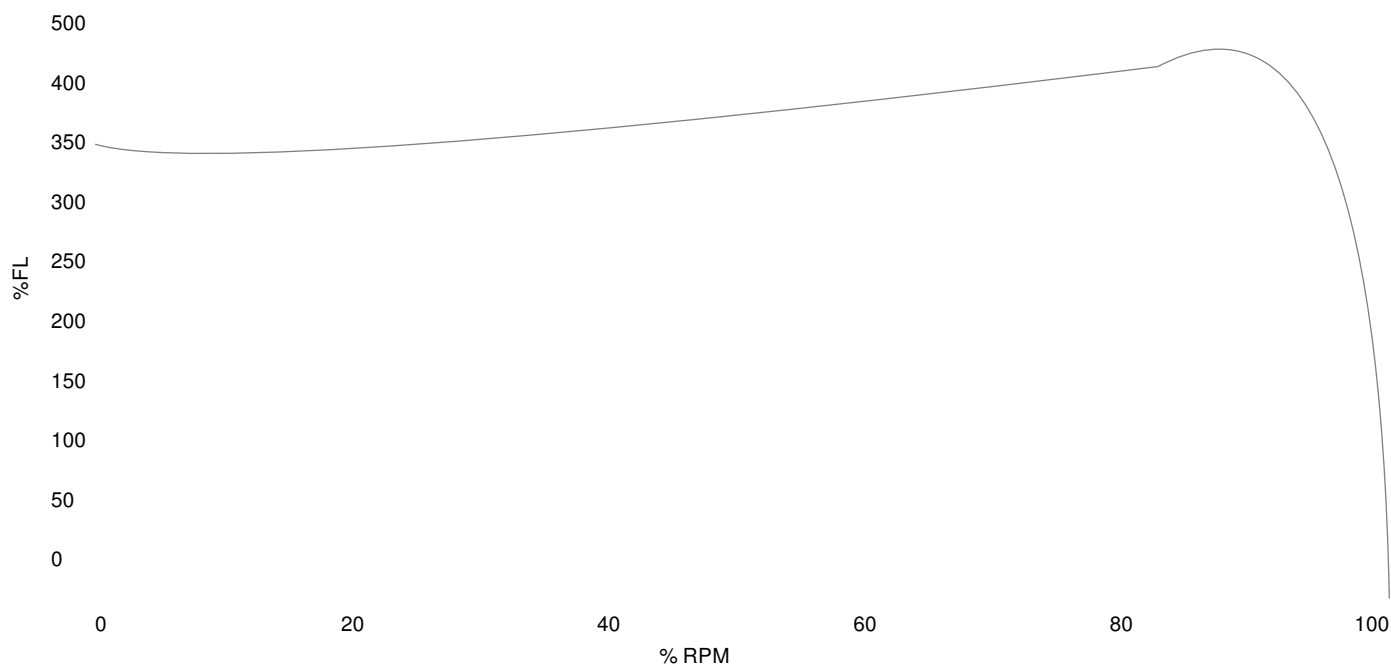
# NEMA

<b>MOTOR MODEL:</b>	GR3-AL-TF-145JM-4-B-D-1.5
<b>FACTORY TYPE:</b>	TXA

### Premium NEMA Cast Aluminum, TEFC

Non Sinusoidal (VFD) Output 1.5HP, 1740 RPM

Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

Torque Values	Torque lb-ft	% FLT	Performance Values
Locked Rotor Torque	16.1544	351.0	Start Configuration
Pull-Up Torque	14.8197	322.0	Starting Current (A)
Breakdown Torque	18.9158	411.0	No-Load Current (A)
Full Load	4.60239	100.0	No-Load Power Factor

% Load	Horsepower	Current, Amps	Input power, Kilowatts	Speed, RPM	Efficiency	PF
0	-	1.34	-	-	-	-
25	0.375	1.4	368.98	1787.5	76.22	0.33
50	0.75	1.57	665.18	1775.8	84.56	0.53
75	1.125	1.83	972.14	1763.0	86.79	0.67
100	1.5	2.16	1291.7	1749.1	87.1	0.75
125	1.875	2.54	1625.7	1734.1	86.5	0.8

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