



# Pump Motors

# NEMA

<b>MOTOR MODEL:</b>	GR3-CI-TF-286JM-2-BR-D-30
<b>FACTORY TYPE:</b>	TXC

## Premium NEMA Cast Iron, TEFC

ELECTRICAL DATA		
	60 Hz	50 Hz
Horsepower	30.0	30.0
Speed, RPM	3550	2930
Voltage	230/460	190/380
# Phase	3	
Full Load Amps	70.42/35.21	83.8/41.9
Power Factor	0.9	-
Nominal Efficiency	91.7	89.0
3/4 Load Efficiency	-	-
Service Factor	1.25	1.0
KVA Code	L	F
FL Amps. @ 208 V	77.8659	-
LRC @ 60Hz HV	355.585	-
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%	90.04	0.77
75%	91.7	0.85
100%	92.09	0.88
FULL LOAD TEMPERATURE RISE		
FL Temp Rise °C	64.0	-
3D Image Link		
Not available for this motor		

GENERAL DATA		
Frame Size	286JM	
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 1-1/2"	
Feet Removable	true	
Double Drilled	true	
Paint Color	Graphite Gray	
Paint RAL	7024	
Weight lb	374.85	
MECHANICAL DATA		
DE Bearing	6311C3	
NDE Bearing	6311C3	
dB No-Load	-	
Rotor Wk <sup>2</sup> , Lb-Ft <sup>2</sup>	-	
Comp Ring (wavy washer)	NDE	
TORQUE VALUES		% FLT
Locked Rotor Torque	144.75	323.0
Pull-Up Torque	82.0101	183.0
Breakdown Torque	166.709	372.0
Full Load Torque	44.8143	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.



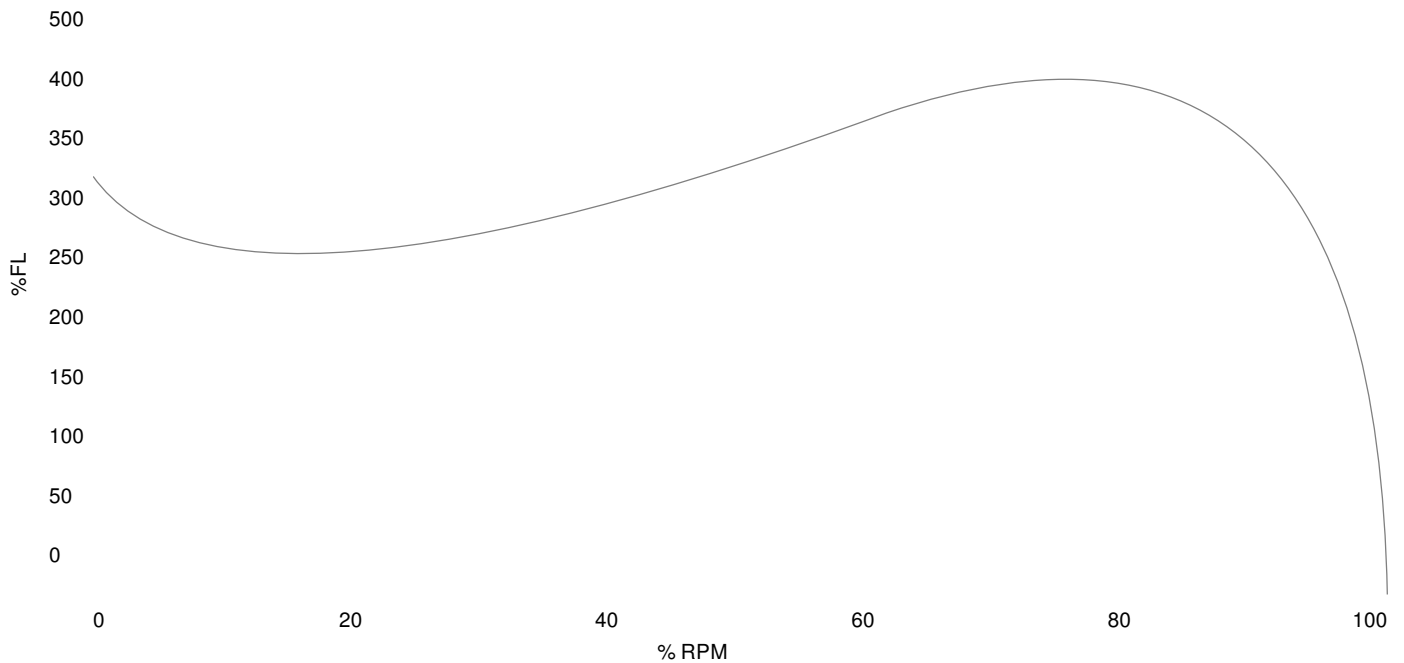
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Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

Torque Values	Torque lb-ft	% FLT	Performance Values
Locked Rotor Torque	144.75	323.0	Start Configuration
Pull-Up Torque	82.0101	183.0	Starting Current (A)
Breakdown Torque	166.709	372.0	No-Load Current (A)
Full Load	44.8143	100.0	No-Load Power Factor

% Load	Horsepower	Current, Amps	Input power, Kilowatts	Speed, RPM	Efficiency	PF
0	-	12.06	-	-	-	-
25	7.5	14.45	6.67	3589.1	84.0	0.58
50	15.0	20.37	12.44	3579.5	90.04	0.77
75	22.5	27.14	18.32	3569.0	91.7	0.85
100	30.0	34.59	24.32	3557.8	92.09	0.88
125	37.5	42.59	30.46	3545.9	91.92	0.9

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