



NEMA Premium

NEMA

MOTOR MODEL:	GR3-AL-TF-213TC-4-B-D-7.5
FACTORY TYPE:	TXA

Premium NEMA Cast Aluminum, TEFC

ELECTRICAL DATA		
	60 Hz	50 Hz
Horsepower	7.5	7.5
Speed, RPM	1765	1460
Voltage	230/460	190/380
# Phase	3	
Full Load Amps	17.7/8.86	20.8/10.4
Power Factor	0.85	-
Nominal Efficiency	91.7	90.4
3/4 Load Efficiency	-	-
Service Factor	1.25	1.0
KVA Code	L	J
FL Amps. @ 208 V	19.2	-
Locked Rotor Current	88.9119	-
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%	-	-
75%	-	-
100%	-	-
FULL LOAD TEMPERATURE RISE		
FL Temp Rise °C	-	35.7
3D Image Link		
Not available for this motor		

GENERAL DATA		
Frame Size	213TC	
Frame Enclosure	TEFC	
Mounting	Rigid/C-Flange	
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	113.0	
MECHANICAL DATA		
DE Bearing	6308ZZ	
NDE Bearing	6208ZZ	
dB No-Load	-	
Rotor Wk ² , Lb-Ft ²	-	
Comp Ring (wavy washer)	-	
TORQUE VALUES	Torque lb-ft	% FLT
Locked Rotor Torque	57.948	264.0
Pull-Up Torque	41.266	188.0
Breakdown Torque	84.0685	383.0
Full Load Torque	21.95	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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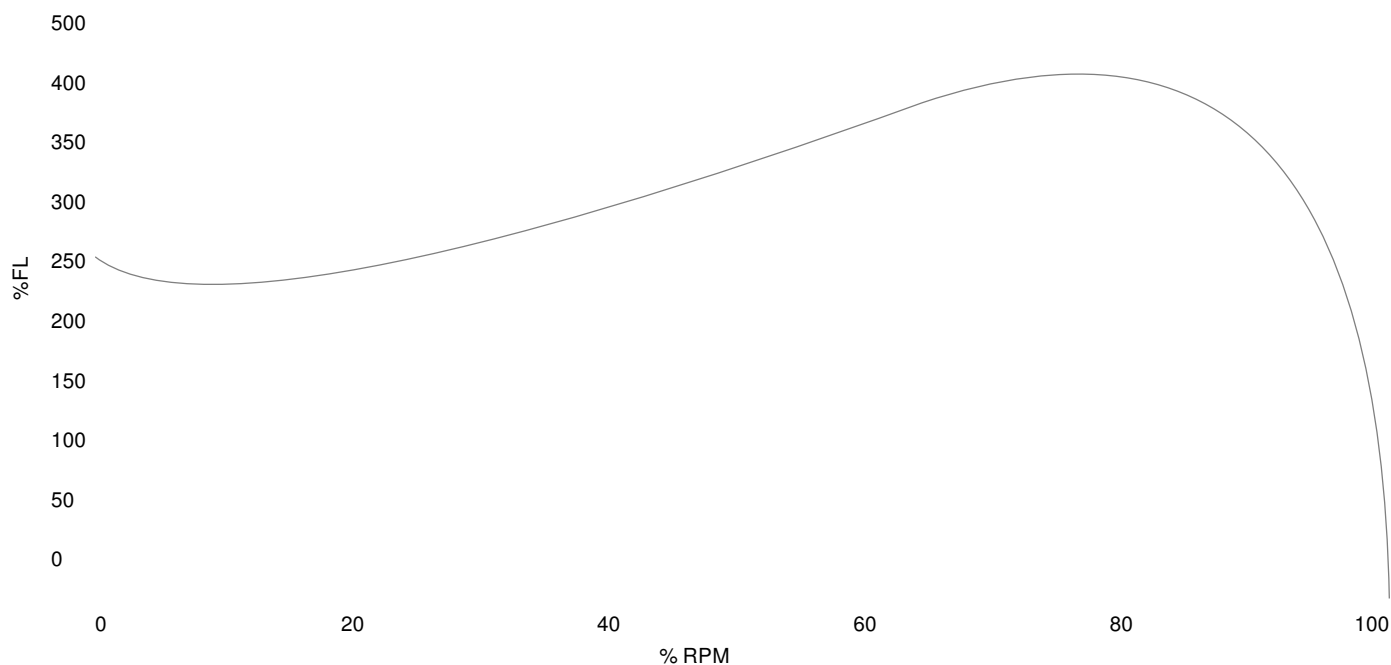
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Non Sinusoidal (VFD) Output 7.5HP, 1765 RPM

Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

Torque Values	Torque lb-ft	% FLT	Performance Values
Locked Rotor Torque	57.948	264.0	Start Configuration
Pull-Up Torque	41.266	188.0	Starting Current (A)
Breakdown Torque	84.0685	383.0	No-Load Current (A)
Full Load	21.95	100.0	No-Load Power Factor

% Load	Horsepower	Current, Amps	Input power, Kilowatts	Speed, RPM	Efficiency	PF
0	-	-	-	-	-	-
25	1.875	-	-	-	-	-
50	3.75	-	-	-	-	-
75	5.625	-	-	-	-	-
100	7.5	-	-	-	-	-
125	9.375	-	-	-	-	-

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