



Metric IEC

**IEC**

<b>MOTOR MODEL:</b>	GR3-AL-TF-80B34-2-B-D-1
<b>FACTORY TYPE:</b>	TXA

**IE3 IEC Cast Aluminum, TEFC**

ELECTRICAL DATA		
	60 Hz	50 Hz
Horsepower	1.0	1.0
Speed, RPM	3490	2850
Voltage	230/460	190/380
# Phase	3	
Full Load Amps	3.1/1.55	3.48/1.74
Power Factor	0.77	-
Nominal Efficiency	79.0	77.0
Service Factor	1.25	1.0
KVA Code	K	G
FL Amps. @ 208 V	3.43	-
LRC @ 60Hz HV	11.3832	-
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%	73.452	0.54488
75%	77.878	0.6886
100%	79.083	0.78361
FULL LOAD TEMPERATURE RISE		
FL Temp Rise °C	53.4	-
3D Image Link		
<a href="#">GR3-AL-TF-80B34-2-B-D-1</a>		

GENERAL DATA			
Frame Size	80		
Frame Enclosure	TEFC		
Mounting	B34		
Insulation Class	F		
Duty	Cont. / S1		
NEMA Design	B		
Frame Material	Cast Aluminum		
Ingress Protection	55		
Tropicalization	true		
Cable Entry	1-NPT 1/2"		
Feet Removable	true		
Double Drilled	-		
Paint Color	Graphite Gray		
Paint RAL	7024		
Weight lb	18.2		
MECHANICAL DATA			
DE Bearing	6204ZZ		
NDE Bearing	6204ZZ		
dB No-Load	-		
Rotor Wk <sup>2</sup> , Lb-Ft <sup>2</sup>	-		
Comp Ring (wavey washer)	-		
TORQUE VALUES		Torque lb-ft	% FLT
Locked Rotor Torque		4.73294	310.0
Pull-Up Torque		3.31306	217.0
Breakdown Torque		4.82454	316.0
Full Load Torque		1.52675	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.



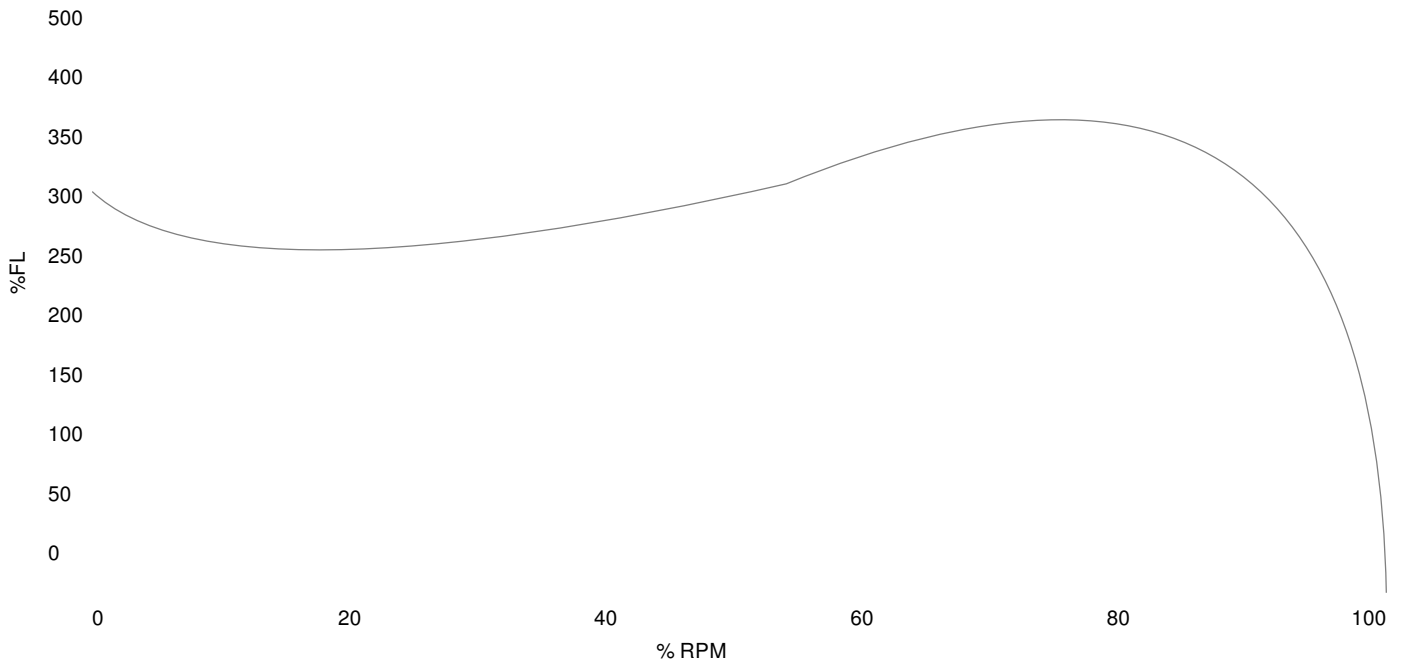
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Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

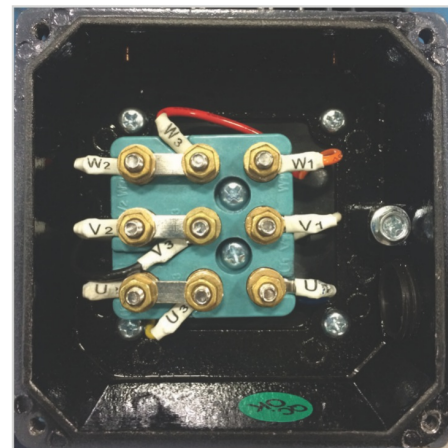
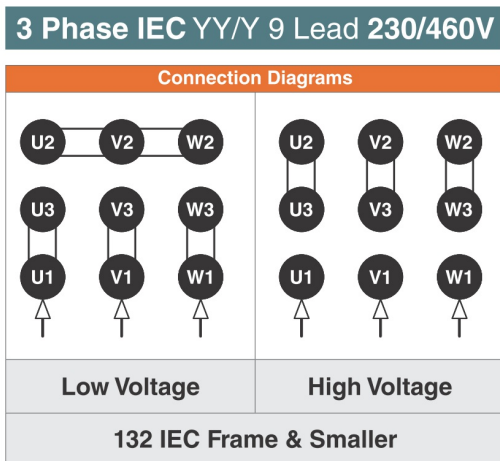
Torque Values	Torque lb-ft	% FLT	Performance Values
Locked Rotor Torque	4.73294	310.0	Start Configuration
Pull-Up Torque	3.31306	217.0	Starting Current (A)
Breakdown Torque	4.82454	316.0	No-Load Current (A)
Full Load	1.52675	100.0	No-Load Power Factor

% Load	Horsepower	Current, Amps	Input power, Kilowatts	Speed, RPM	Efficiency	PF
0	-	1.11	-	-	-	-
25	0.25	1.103	0.3106	3570.0	60.367	0.35343
50	0.5	1.176	0.51054	3546.6	73.452	0.54488
75	0.75	1.3165	0.72228	3518.9	77.878	0.6886
100	1.0	1.519	0.94837	3487.0	79.083	0.78361
125	1.25	1.7765	1.1919	3450.7	78.656	0.84209

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**Notes:** 9 Lead / 9 Post Connection  
Motors pre-wired high voltage as shown above

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