



IE3

IEC

<b>MOTOR MODEL:</b>	GR3-AL-TF-80B35-2-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	208-230/460	190/380
# Phase	3	
Full Load Amps	3.43-3.1/1.55	3.48/1.74
Power Factor	0.77	-
Nominal Efficiency	79.0	77.0
3/4 Load Efficiency	-	-
Service Factor	1.25	1.0
KVA Code	K	G
FL Amps. @ 208 V	3.43	-
Locked Rotor Current	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		
Not available for this motor		

GENERAL DATA		
Frame Size	80B35	
Frame Enclosure	TEFC	
Mounting	B35	
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 (wavy washer)	-	
TORQUE VALUES		
	<b>Torque lb-ft</b>	<b>% FLT</b>
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 Techttop for more info.



IE3

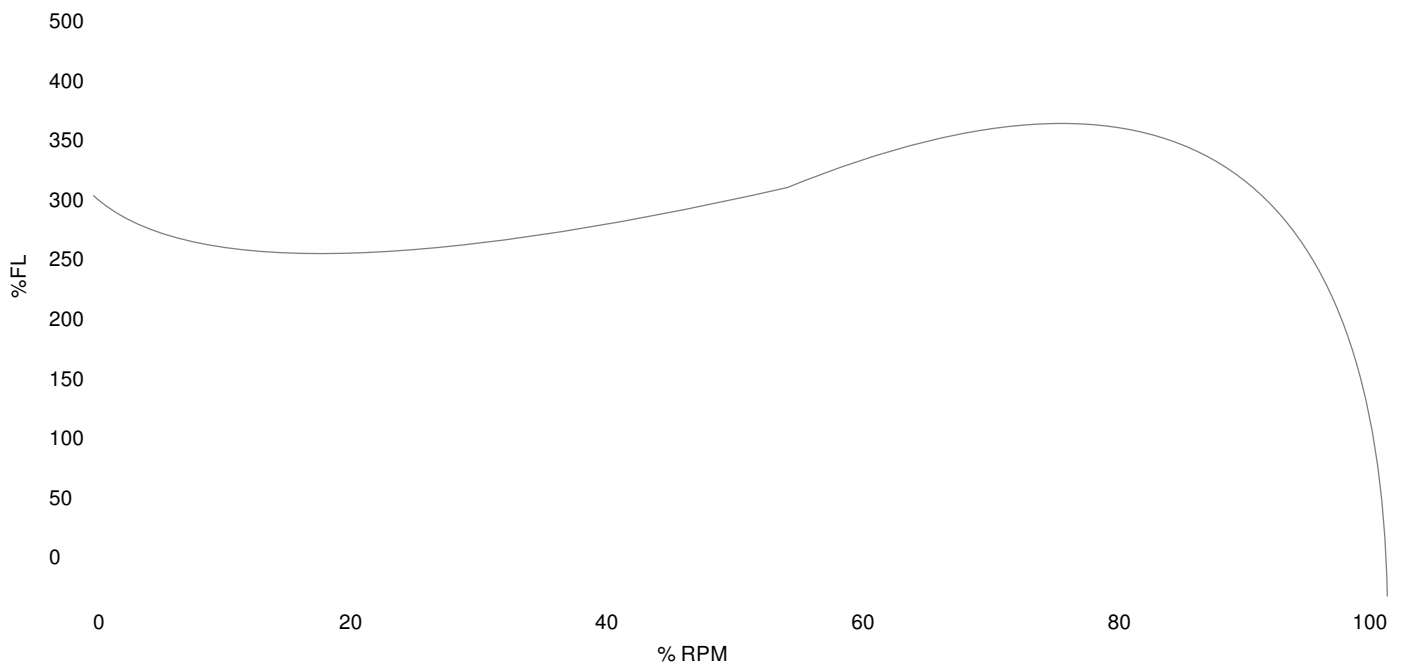
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## IE3 IEC Cast Aluminum, TEFC

Non Sinusoidal (VFD) Output 1.0HP, 3490 RPM

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	310.6	3570.0	60.367	0.35343
50	0.5	1.176	510.54	3546.6	73.452	0.54488
75	0.75	1.3165	722.28	3518.9	77.878	0.6886
100	1.0	1.519	948.37	3487.0	79.083	0.78361
125	1.25	1.7765	1191.9	3450.7	78.656	0.84209

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