



IE3

IEC

<b>MOTOR MODEL:</b>	GR3-CI-TF-280MB34-4-BR-E-125
<b>FACTORY TYPE:</b>	TCX

## IE3 IEC Cast Iron, TEFC

ELECTRICAL DATA		
	60 Hz	50 Hz
Horsepower	125.0	125.0
Speed, RPM	1780	1480
Voltage	230/460	190/380
# Phase	3	
Full Load Amps	282/141	334/167
Power Factor	0.88	-
Nominal Efficiency	95.0	-
3/4 Load Efficiency	-	-
Service Factor	1.15	1.0
KVA Code	J	D
FL Amps. @ 208 V	-	-
Locked Rotor Current	1465.36	-
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%	94.33	0.73
75%	95.38	0.83
100%	95.65	0.87
FULL LOAD TEMPERATURE RISE		
FL Temp Rise °C	72.0	94.0
3D Image Link		
Not available for this motor		

GENERAL DATA		
Frame Size	280MB34	
Frame Enclosure	TEFC	
Mounting	B34	
Insulation Class	F	
Duty	Cont. / S1	
NEMA Design	A	
Frame Material	Cast Iron	
Ingress Protection	55	
Tropicalization	true	
Cable Entry	2-M50X1.5	
Feet Removable	-	
Double Drilled	-	
Paint Color	Graphite Gray	
Paint RAL	7024	
Weight lb	1779.0	
MECHANICAL DATA		
DE Bearing	6316C3	
NDE Bearing	6316C3	
dB No-Load	-	
Rotor Wk <sup>2</sup> , Lb-Ft <sup>2</sup>	-	
Comp Ring (wavy washer)	-	
TORQUE VALUES		
	Torque lb-ft	% FLT
Locked Rotor Torque	1294.77	355.0
Pull-Up Torque	692.977	190.0
Breakdown Torque	1240.06	340.0
Full Load Torque	364.724	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.



IE3

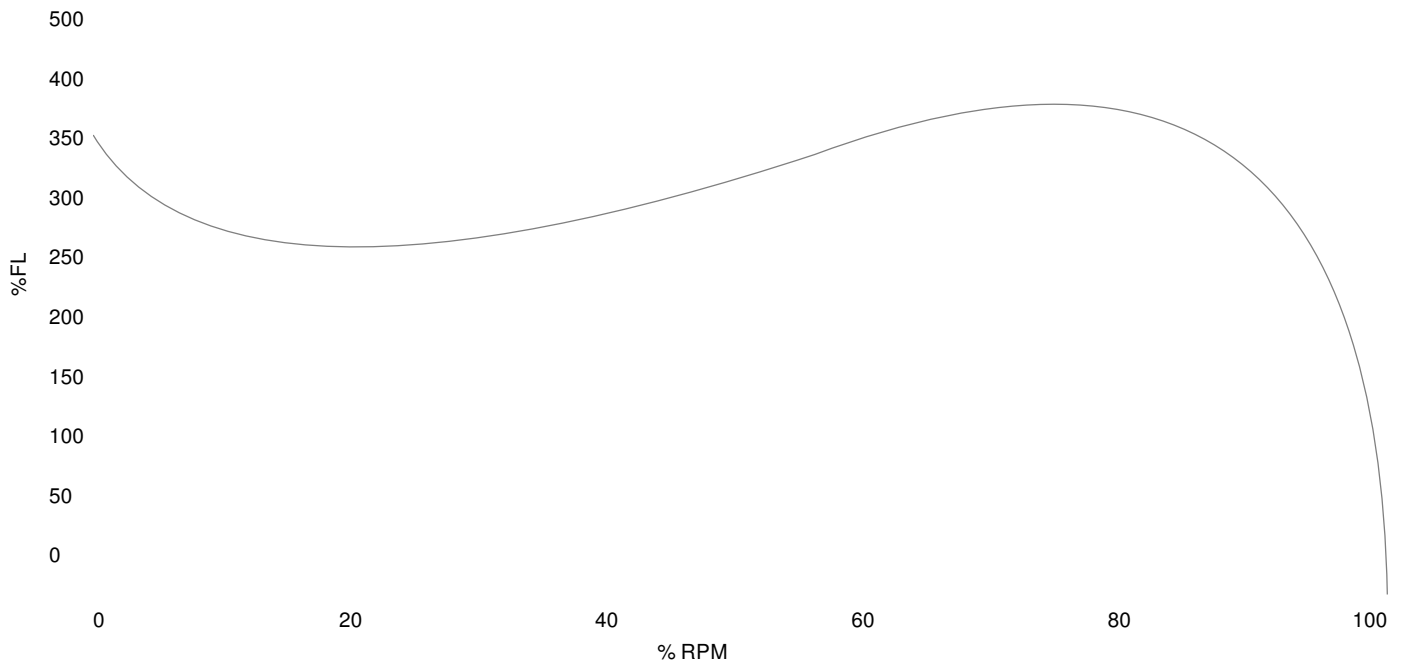
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## IE3 IEC Cast Iron, TEFC

Non Sinusoidal (VFD) Output 125.0HP, 1780 RPM

Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

Torque Values	Torque lb-ft	% FLT	Performance Values	
Locked Rotor Torque	1294.77	355.0	Start Configuration	-
Pull-Up Torque	692.977	190.0	Starting Current (A)	-
Breakdown Torque	1240.06	340.0	No-Load Current (A)	-
Full Load	364.724	100.0	No-Load Power Factor	-

% Load	Horsepower	Current, Amps	Input power, Kilowatts	Speed, RPM	Efficiency	PF
0	-	55.58	-	-	-	-
25	31.25	64.5	25.7	1797.7	90.47	0.5
50	62.5	85.06	49.3	1795.2	94.33	0.73
75	93.75	111.22	73.13	1792.7	95.38	0.83
100	125.0	140.92	97.23	1790.0	95.65	0.87
125	156.25	159.57	111.81	1788.3	95.65	0.88

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