



IE3

IEC

MOTOR MODEL:	GR3-CI-TF-160LB35-4-BR-D-20
FACTORY TYPE:	TCX

## IE3 IEC Cast Iron, TEFC

ELECTRICAL DATA		
	60 Hz	50 Hz
Horsepower	20.0	20.0
Speed, RPM	1760	1450
Voltage	230/460	190/380
# Phase	3	
Full Load Amps	47.0/23.5	58.0/29.0
Power Factor	0.83	-
Nominal Efficiency	93.0	-
3/4 Load Efficiency	-	-
Service Factor	1.15	1.0
KVA Code	J	F
FL Amps. @ 208 V	51.97	-
Locked Rotor Current	211.318	-
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%	91.95	0.74
75%	92.77	0.83
100%	92.58	0.87
FULL LOAD TEMPERATURE RISE		
FL Temp Rise °C	63.0	90.0
3D Image Link		
<a href="#">GR3-CI-TF-160LB35-4-BR-D-20</a>		

GENERAL DATA		
Frame Size	160LB35	
Frame Enclosure	TEFC	
Mounting	B35	
Insulation Class	F	
Duty	Cont. / S1	
NEMA Design	A	
Frame Material	Cast Iron	
Ingress Protection	55	
Tropicalization	true	
Cable Entry	2-M32X1.5	
Feet Removable	true	
Double Drilled	-	
Paint Color	Graphite Gray	
Paint RAL	7024	
Weight lb	315.0	
MECHANICAL DATA		
DE Bearing	6309C3	
NDE Bearing	6309C3	
dB No-Load	-	
Rotor Wk <sup>2</sup> , Lb-Ft <sup>2</sup>	-	
Comp Ring (wavy washer)	-	
TORQUE VALUES		% FLT
Locked Rotor Torque	166.907	280.0
Pull-Up Torque	122.796	206.0
Breakdown Torque	209.826	352.0
Full Load Torque	59.6098	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

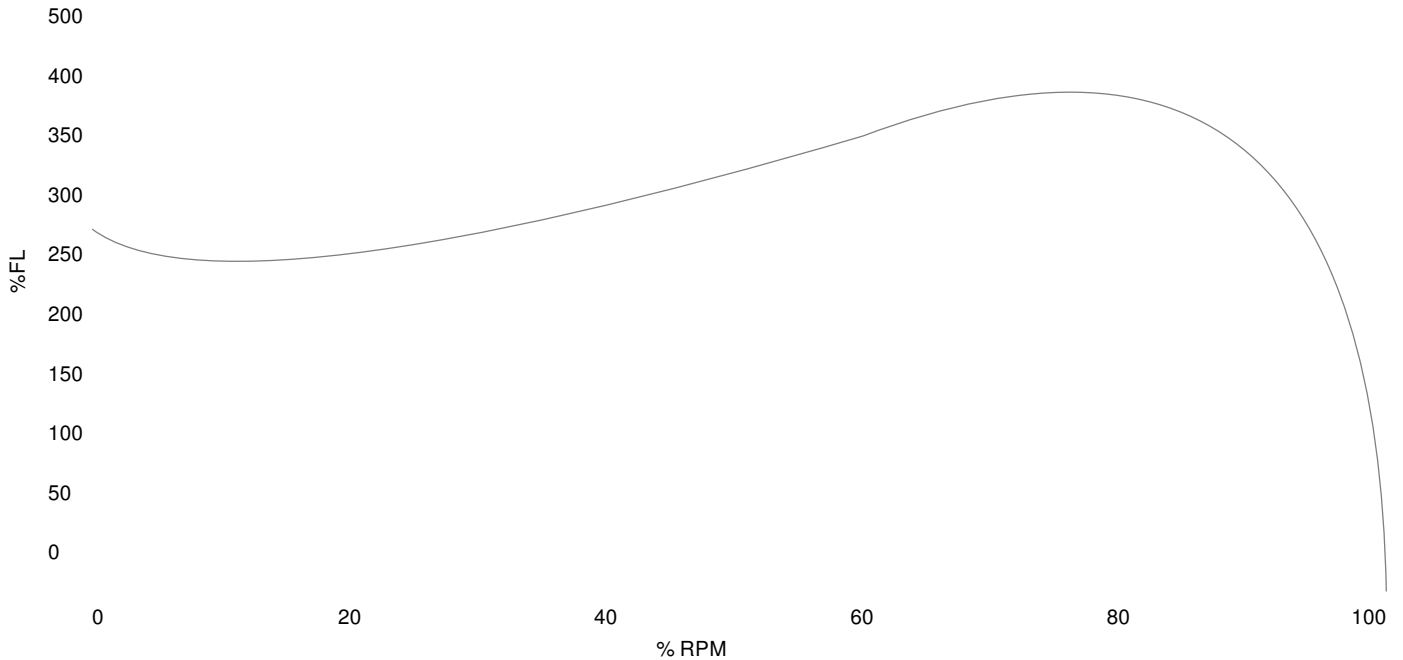
IEC

<b>MOTOR MODEL:</b>	GR3-CI-TF-160LB35-4-BR-D-20
<b>FACTORY TYPE:</b>	TCX

## IE3 IEC Cast Iron, TEFC

Non Sinusoidal (VFD) Output 20.0HP, 1760 RPM

Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

Torque Values	Torque lb-ft	% FLT	Performance Values
Locked Rotor Torque	166.907	280.0	Start Configuration
Pull-Up Torque	122.796	206.0	Starting Current (A)
Breakdown Torque	209.826	352.0	No-Load Current (A)
Full Load	59.6098	100.0	No-Load Power Factor

% Load	Horsepower	Current, Amps	Input power, Kilowatts	Speed, RPM	Efficiency	PF
0	-	8.72	-	-	-	-
25	5.0	10.25	4.28	1793.3	87.68	0.52
50	10.0	13.84	8.16	1786.6	91.95	0.74
75	15.0	18.28	12.13	1779.4	92.77	0.83
100	20.0	23.35	16.2	1771.7	92.58	0.87
125	25.0	28.86	20.39	1763.5	91.95	0.89

Techtop Industries  
 2815 Colonnades Court  
 Peachtree Corners, GA 30071  
 Tel: 678-436-5540  
 E-Mail: info@techttopind.com