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	-
LRC @ 60Hz HV	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
GR3-CI-TF-160LB35-4-BR-D-20

*This report valid for above Date Code and newer models, please contact Techtop for more info.

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 Wk², Lb-Ft²	-
Comp Ring (wavey washer)	-

TORQUE VALUES	Torque lb-ft	% 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

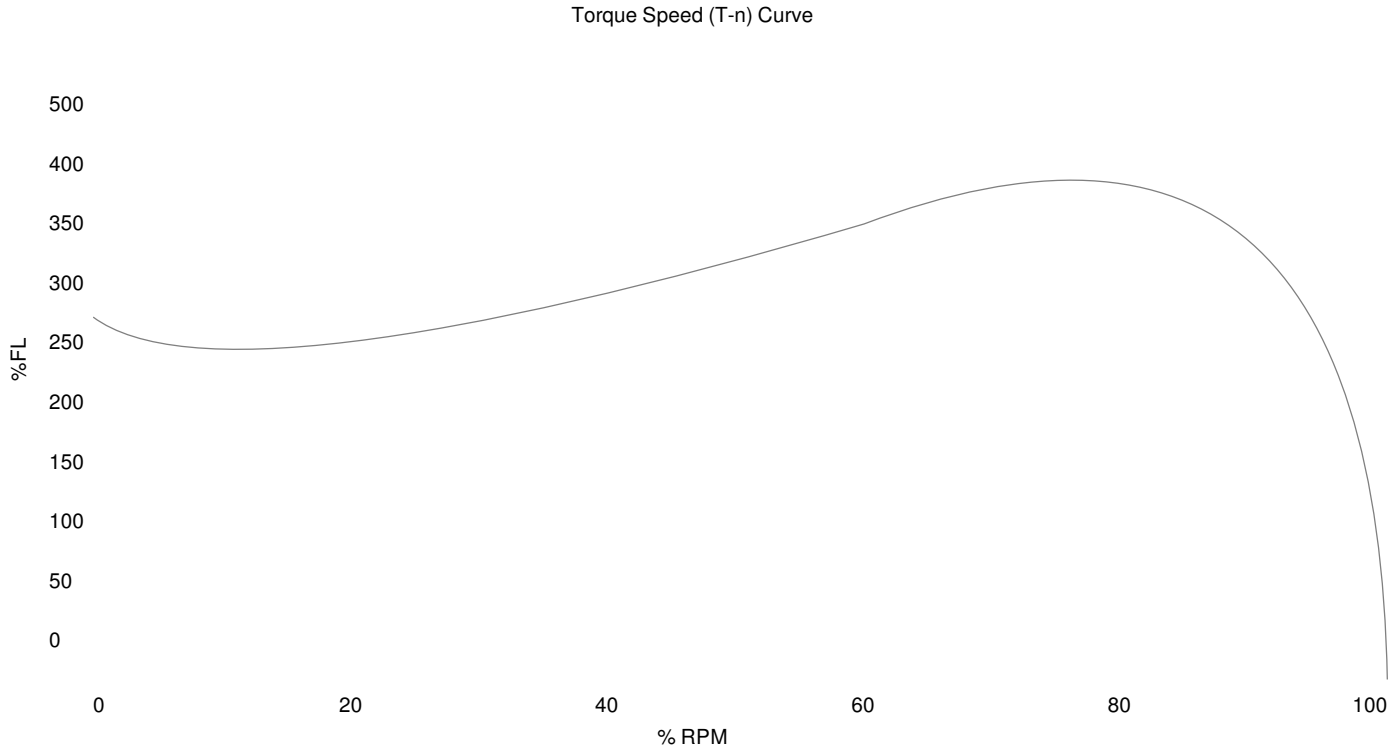
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IE3

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

IE3 IEC Cast Iron, TEFC



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

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