IE3

IEC

MOTOR MODEL:	GR3-CI-TF-180LB35-4-BR-D-30
FACTORY TYPE:	TCX

IE3 IEC Cast Iron, TEFC

ELECTRICAL DATA		
	60 Hz	50 Hz
Horsepower	30.0	30.0
Speed, RPM	1770	1460
Voltage	230/460	190/380
# Phase	3	
Full Load Amps	71.0/35.5	84.0/42.0
Power Factor	0.85	-
Nominal Efficiency	93.6	-
3/4 Load Efficiency	-	-
Service Factor	1.15	1.0
KVA Code	H	F
FL Amps. @ 208 V	78.58	-
LRC @ 60Hz HV	329.683	-
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%	92.75	0.71
75%	93.63	0.82
100%	93.58	0.86

FULL LOAD TEMPERATURE RISE		
FL Temp Rise °C	60.0	82.0

3D Image Link
GR3-CI-TF-180LB35-4-BR-D-30

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

GENERAL DATA	
Frame Size	180LB35
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	404.0

MECHANICAL DATA	
DE Bearing	6311C3
NDE Bearing	6311C3
dB No-Load	-
Rotor Wk^2, $Lb\text{-}Ft^2$	-
Comp Ring (wavey washer)	-

TORQUE VALUES	Torque lb-ft	% FLT
Locked Rotor Torque	265.96	299.0
Pull-Up Torque	190.353	214.0
Breakdown Torque	323.778	364.0
Full Load Torque	88.95	100.0

SITE CONDITIONS	
Ambient Temp °C	40
Altitude Above Sea Level m	1000

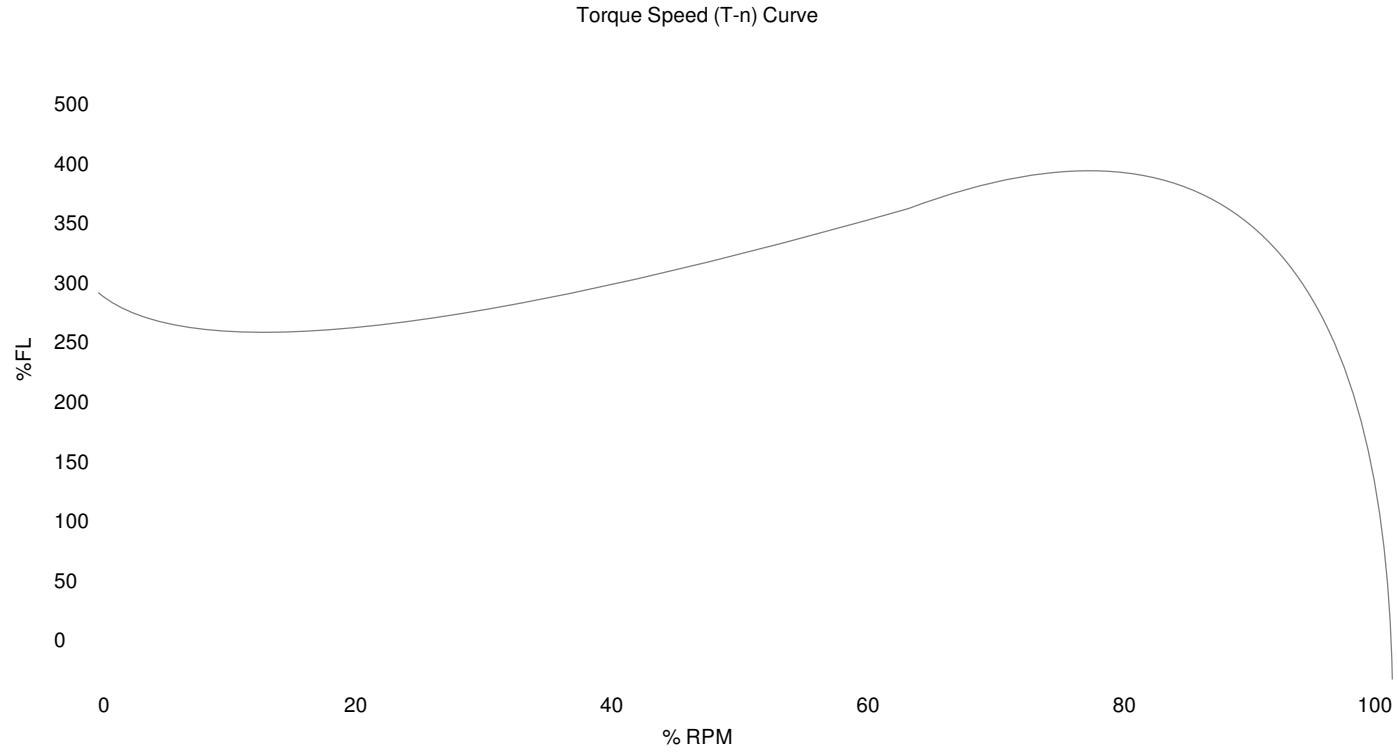
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IE3

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MOTOR MODEL:	GR3-CI-TF-180LB35-4-BR-D-30
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	265.96	299.0	Start Configuration	-
Pull-Up Torque	190.353	214.0	Starting Current (A)	-
Breakdown Torque	323.778	364.0	No-Load Current (A)	-
Full Load	88.95	100.0	No-Load Power Factor	-

% Load	Horsepower	Current, Amps	Input power, Kilowatts	Speed, RPM	Efficiency	PF
0	-	14.41	-	-	-	-
25	7.5	16.23	6.29	1794.1	88.63	0.49
50	15.0	21.24	12.02	1788.4	92.75	0.71
75	22.5	27.51	17.86	1782.2	93.63	0.82
100	30.0	34.74	23.83	1775.7	93.58	0.86
125	37.5	42.61	29.93	1768.8	93.13	0.88

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