



NEMA Premium

NEMA

MOTOR MODEL:	GR3-CI-TF-286TC-4-BR-D-30
FACTORY TYPE:	TXC

Premium NEMA 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	68.99/34.49	84/42
Power Factor	0.85	-
Nominal Efficiency	93.6	90.5
3/4 Load Efficiency	-	-
Service Factor	1.25	1.0
KVA Code	K	F
FL Amps. @ 208 V	76.2853	-
Locked Rotor Current	329.683	-
Start Capacitor	-	
Start Capacitor V	-	
Run Capacitor	-	
Run Capacitor V	-	
Number of Leads	12	
Connection	DD/D	
Coil Resistance	-	
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	-
3D Image Link		
Not available for this motor		

GENERAL DATA			
Frame Size	286TC		
Frame Enclosure	TEFC		
Mounting	Rigid/C-Flange		
Insulation Class	F		
Duty	Cont. / S1		
NEMA Design	A		
Frame Material	Cast Iron		
Ingress Protection	55		
Tropicalization	true		
Cable Entry	1-NPT 1-1/2"		
Feet Removable	true		
Double Drilled	true		
Paint Color	Graphite Gray		
Paint RAL	7024		
Weight lb	396.9		
MECHANICAL DATA			
DE Bearing	6311C3		
NDE Bearing	6311C3		
dB No-Load	-		
Rotor Wk ² , Lb-Ft ²	-		
Comp Ring (wavy 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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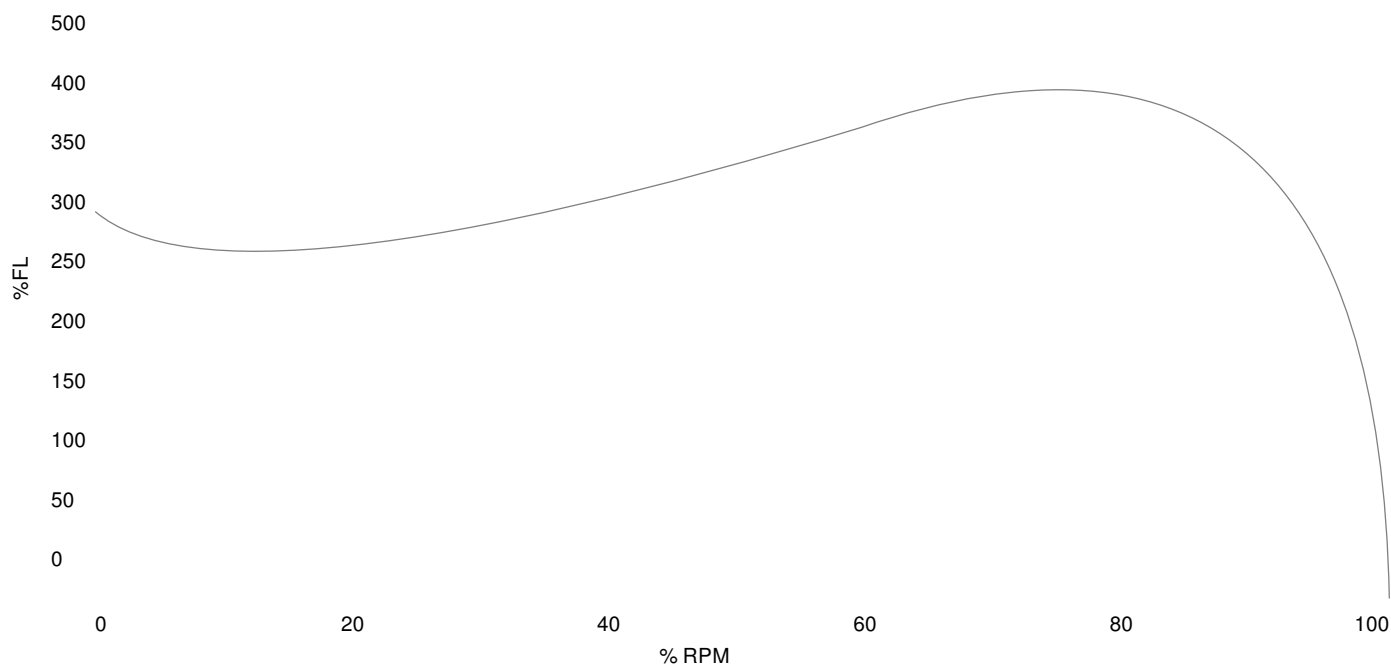
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Non Sinusoidal (VFD) Output 30.0HP, 1770 RPM

Torque Speed (T-n) Curve



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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