



NEMA Premium

NEMA

MOTOR MODEL:	GR3-CI-TF-286TC-6-BR-D-20
FACTORY TYPE:	TXC

Premium NEMA Cast Iron, TEFC

ELECTRICAL DATA		
	60 Hz	50 Hz
Horsepower	20.0	20.0
Speed, RPM	1175	965
Voltage	230/460	190/380
# Phase	3	
Full Load Amps	51.05/25.53	62.8/31.4
Power Factor	0.8	-
Nominal Efficiency	91.7	89.1
3/4 Load Efficiency	-	-
Service Factor	1.25	1.0
KVA Code	L	F
FL Amps. @ 208 V	56.4528	-
Locked Rotor Current	236.819	-
Start Capacitor	-	
Start Capacitor V	-	
Run Capacitor	-	
Run Capacitor V	-	
Number of Leads	12	
Connection	DD/D	
Coil Resistance	-	
Load	Efficiency %	P.F.
50%	91.19	0.64
75%	92.24	0.76
100%	92.16	0.81
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	403.515		
MECHANICAL DATA			
DE Bearing	6311C3		
NDE Bearing	6311C3		
dB No-Load	-		
Rotor Wk², Lb-Ft²	-		
Comp Ring (wavey washer)	-		
TORQUE VALUES		Torque lb-ft	% FLT
Locked Rotor Torque		224.057	249.0
Pull-Up Torque		120.577	134.0
Breakdown Torque		296.043	329.0
Full Load Torque		89.9826	100.0
SITE CONDITIONS			
Ambient Temp °C		40	
Altitude Above Sea Level m		1000	



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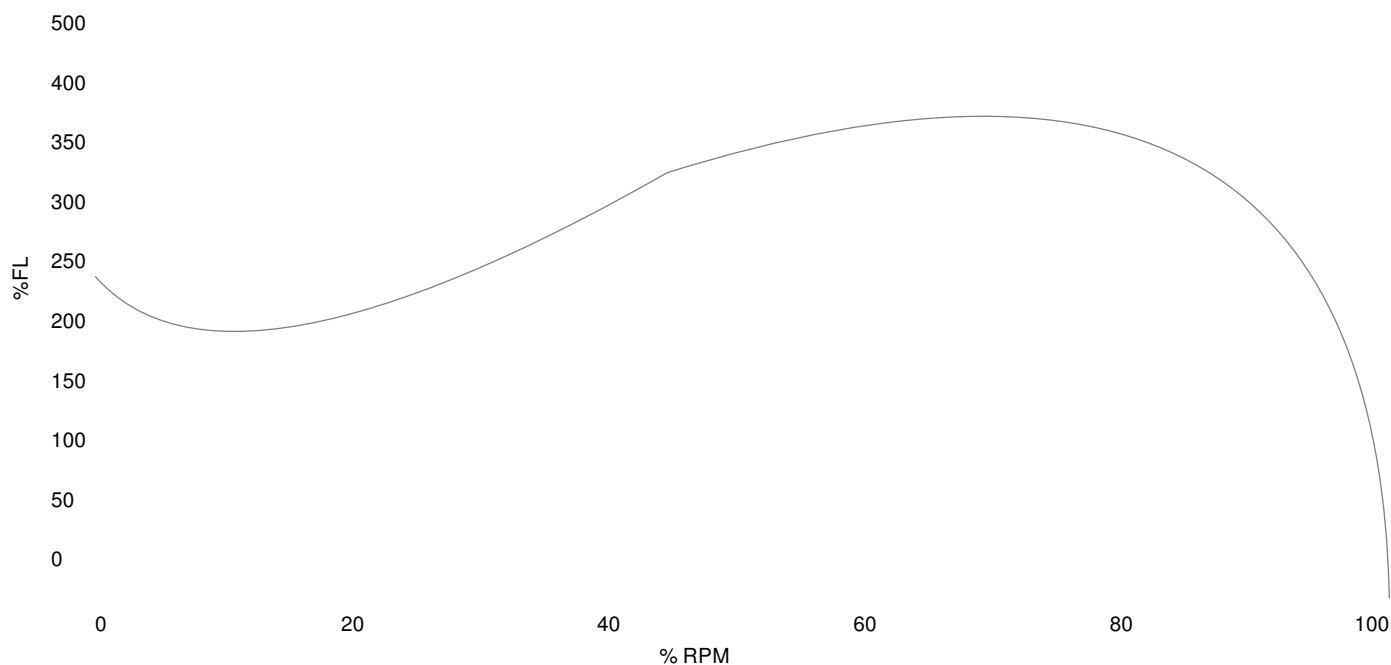
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Non Sinusoidal (VFD) Output 20.0HP, 1175 RPM

Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

Torque Values	Torque lb-ft	% FLT	Performance Values
Locked Rotor Torque	224.057	249.0	Start Configuration
Pull-Up Torque	120.577	134.0	Starting Current (A)
Breakdown Torque	296.043	329.0	No-Load Current (A)
Full Load	89.9826	100.0	No-Load Power Factor

% Load	Horsepower	Current, Amps	Input power, Kilowatts	Speed, RPM	Efficiency	PF
0	-	11.93	-	-	-	-
25	5.0	13.18	4.35	1195.8	86.25	0.41
50	10.0	16.17	8.23	1191.8	91.19	0.64
75	15.0	20.24	12.2	1187.5	92.24	0.76
100	20.0	25.14	16.28	1182.8	92.16	0.81
125	25.0	30.62	20.48	1177.8	91.56	0.84

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