



NEMA Premium

**NEMA**

<b>MOTOR MODEL:</b>	GR3-CI-TF-286TC-6-BR-D-20
<b>FACTORY TYPE:</b>	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	-	
<b>Load</b>	<b>Efficiency %</b>	<b>P.F.</b>
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 Wk <sup>2</sup> , Lb-Ft <sup>2</sup>	-	
Comp Ring (wavy washer)	-	
TORQUE VALUES		
	<b>Torque lb-ft</b>	<b>% FLT</b>
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	



NEMA Premium

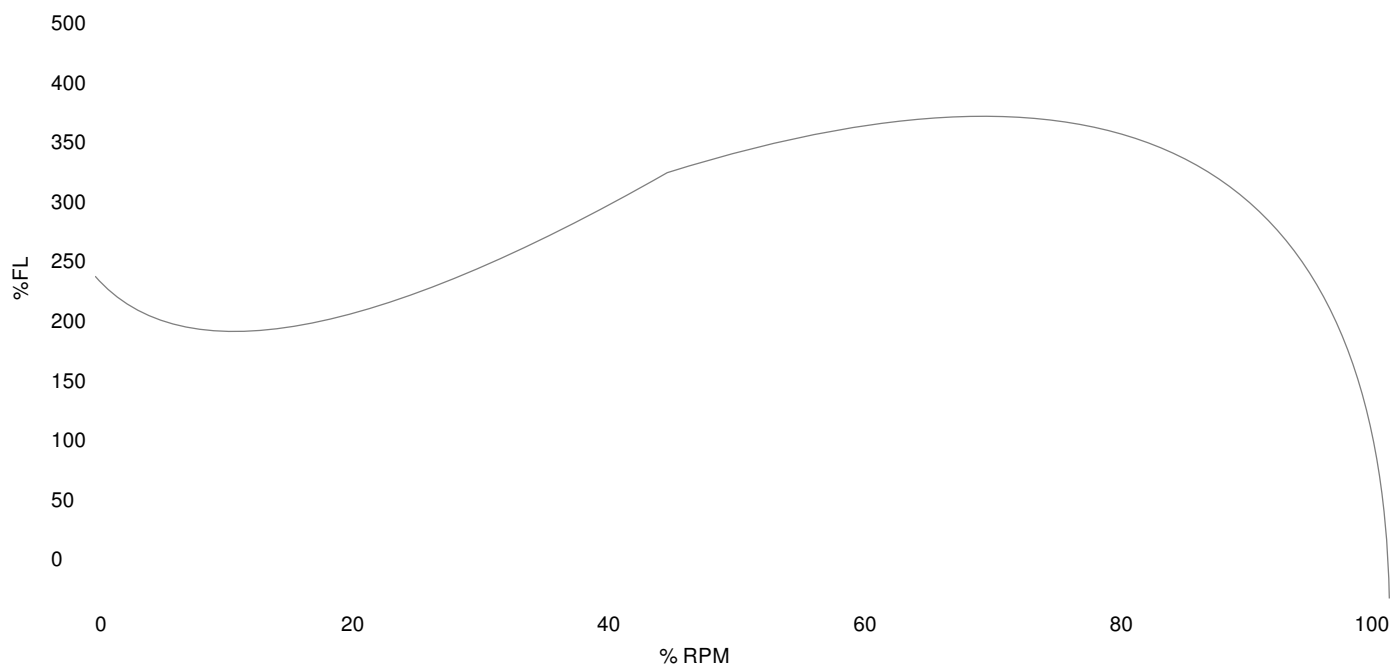
<b>MOTOR MODEL:</b>	GR3-CI-TF-286TC-6-BR-D-20
<b>FACTORY TYPE:</b>	TXC

**NEMA**

Premium NEMA Cast Iron, TEFC

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