



NEMA Premium

**NEMA**

<b>MOTOR MODEL:</b>	BR3-CI-TF-286TSC-2-BR-E-30
<b>FACTORY TYPE:</b>	TXC

Premium NEMA Cast Iron, TEFC

ELECTRICAL DATA		
	60 Hz	50 Hz
Horsepower	30.0	30.0
Speed, RPM	3550	2930
Voltage	460	380
# Phase	3	
Full Load Amps	34.5	-
Power Factor	0.9	-
Nominal Efficiency	91.7	89.0
3/4 Load Efficiency	-	-
Service Factor	1.25	1.0
KVA Code	L	F
FL Amps. @ 208 V	-	-
Locked Rotor Current	355.585	-
Start Capacitor	-	
Start Capacitor V	-	
Run Capacitor	-	
Run Capacitor V	-	
Number of Leads	12	
Connection	DD/D	
Coil Resistance	-	
Load	Efficiency %	P.F.
50%	90.04	0.77
75%	91.7	0.85
100%	92.09	0.88
FULL LOAD TEMPERATURE RISE		
FL Temp Rise °C	64.0	-
3D Image Link		
Not available for this motor		

GENERAL DATA		
Frame Size	286TSC	
Frame Enclosure	TEFC	
Mounting	Rigid/C-Flange	
Insulation Class	F	
Duty	Cont. / S1	
NEMA Design	A	
Frame Material	Cast Iron	
Ingress Protection	56	
Tropicalization	true	
Cable Entry	1-NPT 1-1/2"	
Feet Removable	true	
Double Drilled	true	
Paint Color	Graphite Gray	
Paint RAL	7024	
Weight lb	374.85	
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	Torque lb-ft	% FLT
Locked Rotor Torque	144.75	323.0
Pull-Up Torque	82.0101	183.0
Breakdown Torque	166.709	372.0
Full Load Torque	44.8143	100.0
SITE CONDITIONS		
Ambient Temp °C	40	
Altitude Above Sea Level m	1000	



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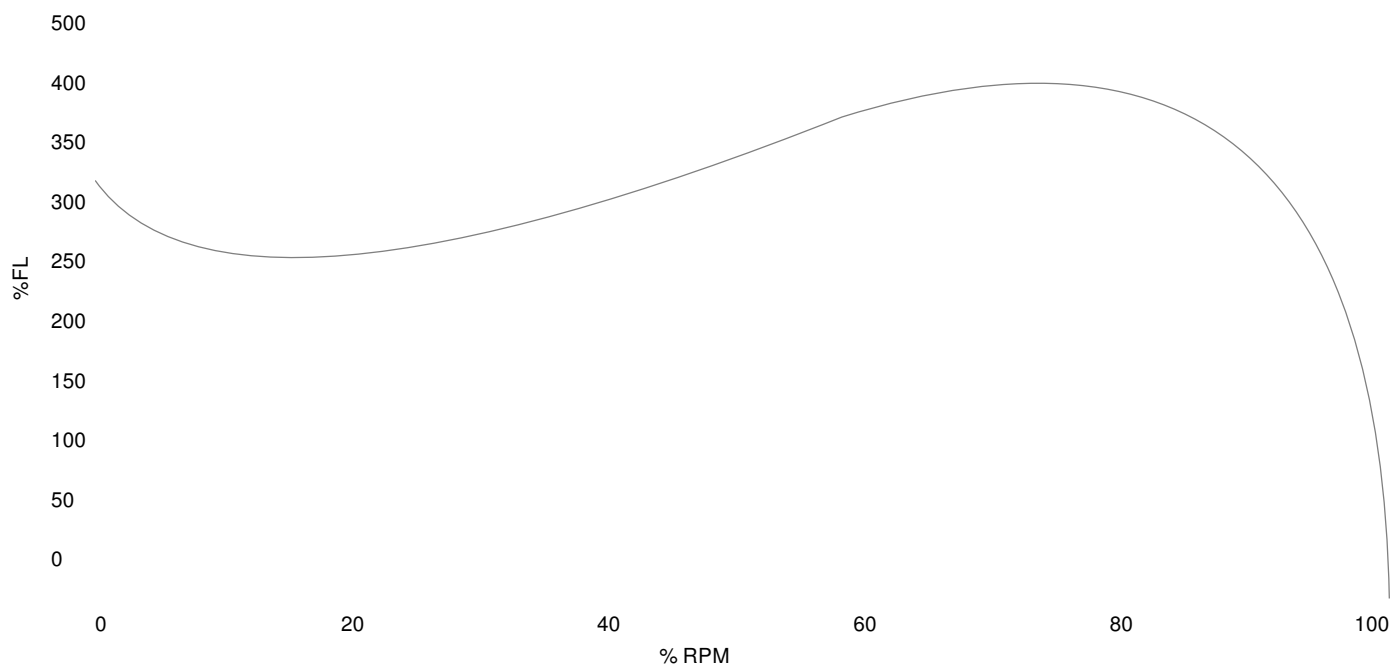
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<b>FACTORY TYPE:</b>	TXC

Premium NEMA Cast Iron, TEFC

Non Sinusoidal (VFD) Output 30.0HP, 3550 RPM

Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

Torque Values	Torque lb-ft	% FLT	Performance Values
Locked Rotor Torque	144.75	323.0	Start Configuration
Pull-Up Torque	82.0101	183.0	Starting Current (A)
Breakdown Torque	166.709	372.0	No-Load Current (A)
Full Load	44.8143	100.0	No-Load Power Factor

% Load	Horsepower	Current, Amps	Input power, Kilowatts	Speed, RPM	Efficiency	PF
0	-	12.06	-	-	-	-
25	7.5	14.45	6.67	3589.1	84.0	0.58
50	15.0	20.37	12.44	3579.5	90.04	0.77
75	22.5	27.14	18.32	3569.0	91.7	0.85
100	30.0	34.59	24.32	3557.8	92.09	0.88
125	37.5	42.59	30.46	3545.9	91.92	0.9

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