



NEMA Premium

**NEMA**

<b>MOTOR MODEL:</b>	BR3-CI-TF-284TC-4-BR-E-25
<b>FACTORY TYPE:</b>	TXC

Premium NEMA Cast Iron, TEFC

ELECTRICAL DATA		
	60 Hz	50 Hz
Horsepower	25.0	25.0
Speed, RPM	1770	1460
Voltage	460	380
# Phase	3	
Full Load Amps	29.6	-
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	-	-
Locked Rotor Current	269.106	-
Start Capacitor	-	
Start Capacitor V	-	
Run Capacitor	-	
Run Capacitor V	-	
Number of Leads	12	
Connection	DD/D	
Coil Resistance	-	
Load	Efficiency %	P.F.
50%	91.59	0.73
75%	92.84	0.82
100%	93.05	0.87
FULL LOAD TEMPERATURE RISE		
FL Temp Rise °C	51.0	-
3D Image Link		
Not available for this motor		

GENERAL DATA		
Frame Size	284TC	
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	-	
Paint Color	Graphite Gray	
Paint RAL	7024	
Weight lb	366.03	
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	209.565	283.0
Pull-Up Torque	152.546	206.0
Breakdown Torque	259.179	350.0
Full Load Torque	74.0512	100.0
SITE CONDITIONS		
Ambient Temp °C	40	
Altitude Above Sea Level m	1000	



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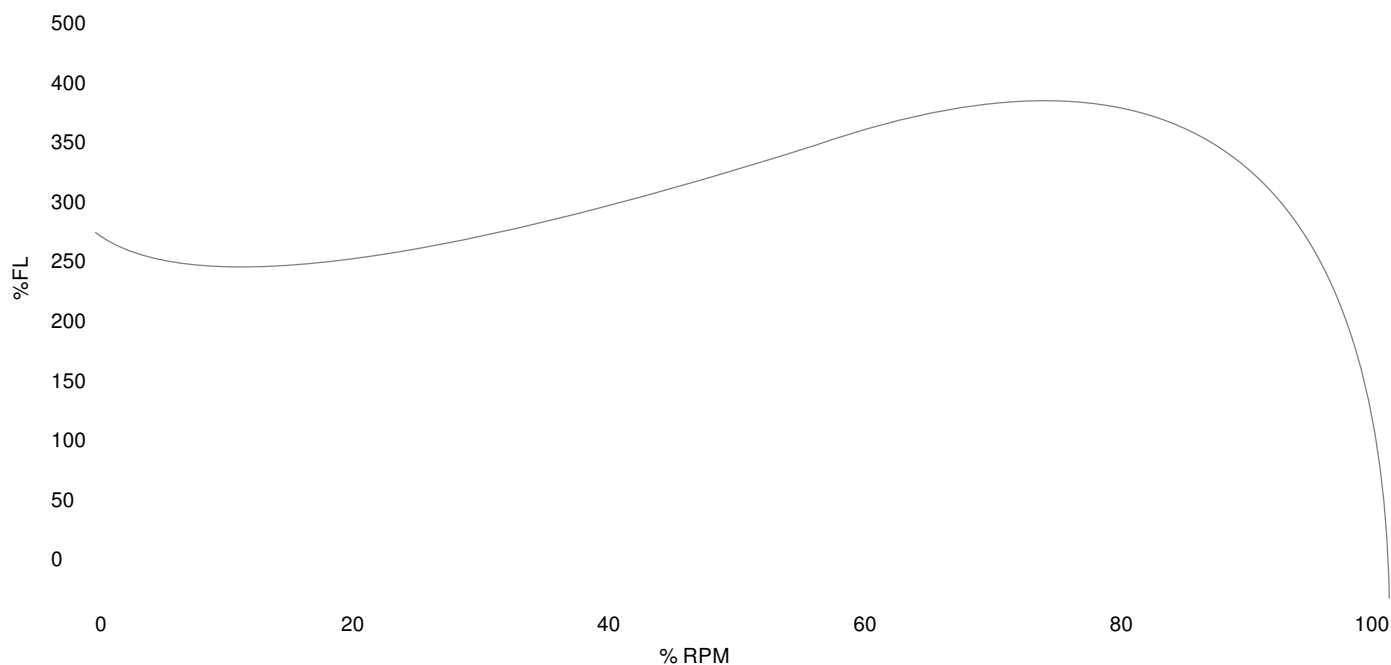
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Premium NEMA Cast Iron, TEFC

Non Sinusoidal (VFD) Output 25.0HP, 1770 RPM

Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

Torque Values	Torque lb-ft	% FLT	Performance Values
Locked Rotor Torque	209.565	283.0	Start Configuration
Pull-Up Torque	152.546	206.0	Starting Current (A)
Breakdown Torque	259.179	350.0	No-Load Current (A)
Full Load	74.0512	100.0	No-Load Power Factor

% Load	Horsepower	Current, Amps	Input power, Kilowatts	Speed, RPM	Efficiency	PF
0	-	11.63	-	-	-	-
25	6.25	11.99	5.36	1793.7	86.79	0.56
50	12.5	17.43	10.15	1788.3	91.59	0.73
75	18.75	22.92	15.03	1782.5	92.84	0.82
100	25.0	28.72	19.99	1776.1	93.05	0.87
125	31.25	35.08	25.06	1769.2	92.77	0.9

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