



NEMA Premium

NEMA

MOTOR MODEL:	GR3-CI-TF-449T-4-BR-E-300
FACTORY TYPE:	TXC

Premium NEMA Cast Iron, TEFC

ELECTRICAL DATA		
	60 Hz	50 Hz
Horsepower	300.0	300.0
Speed, RPM	1793	-
Voltage	460	-
# Phase	3	
Full Load Amps	362.68	-
Power Factor	0.80796	-
Nominal Efficiency	95.86	-
3/4 Load Efficiency	-	-
Service Factor	1.15	-
KVA Code	-	-
FL Amps. @ 208 V	-	-
Locked Rotor Current	5375.0	-
Start Capacitor	-	
Start Capacitor V	-	
Run Capacitor	-	
Run Capacitor V	-	
Number of Leads	6	
Connection	D	
Coil Resistance	-	
Date Code	-	
Load	Efficiency %	P.F.
50%	94.742	0.6196
75%	95.652	0.7441
100%	95.858	0.80796
FULL LOAD TEMPERATURE RISE		
FL Temp Rise °C	90.1	-
3D Image Link		
GR3-CI-TF-449T-4-BR-E-300		

GENERAL DATA		
Frame Size	449T	
Frame Enclosure	TEFC	
Mounting	Rigid	
Insulation Class	F	
Duty	Cont. / S1	
NEMA Design	-	
Frame Material	Cast Iron	
Ingress Protection	55	
Tropicalization	true	
Cable Entry	2-NPT 3"	
Feet Removable	-	
Double Drilled	true	
Paint Color	Graphite Gray	
Paint RAL	7024	
Weight lb	-	
MECHANICAL DATA		
DE Bearing	6319C3	
NDE Bearing	6319C3	
dB No-Load	-	
Rotor Wk ² , Lb-Ft ²	-	
Comp Ring (wavey washer)	DE	
TORQUE VALUES		
	Torque lb-ft	% FLT
Locked Rotor Torque	4739.04	540.0
Pull-Up Torque	-	-
Breakdown Torque	4633.73	528.0
Full Load Torque	877.6	100.0
SITE CONDITIONS		
Ambient Temp °C	40	
Altitude Above Sea Level m	1000	

*This report valid for above Date Code and newer models, please contact Techttop for more info.



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Non Sinusoidal (VFD) Output 300.0HP, 1793 RPM

Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

Torque Values	Torque lb-ft	% FLT	Performance Values
Locked Rotor Torque	4739.04	540.0	Start Configuration
Pull-Up Torque	-	-	Starting Current (A)
Breakdown Torque	4633.73	528.0	No-Load Current (A)
Full Load	877.6	100.0	No-Load Power Factor

% Load	Horsepower	Current, Amps	Input power, Kilowatts	Speed, RPM	Efficiency	PF
0	-	178.0	-	-	-	-
25	75.0	197.15	61.324	1798.2	91.237	0.39
50	150.0	239.24	118.11	1796.6	94.742	0.6196
75	225.0	296.0	175.48	1794.9	95.652	0.7441
100	300.0	362.68	233.47	1793.1	95.858	0.80796
125	300.0	405.47	268.57	1792.0	95.83	0.8313

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