



# Three Phase Cast Iron

# NEMA

<b>MOTOR MODEL:</b>	GR3-CI-TF-405TC-6-RR-D-75
<b>FACTORY TYPE:</b>	TXC

## Premium NEMA Cast Iron, TEFC

ELECTRICAL DATA		
	60 Hz	50 Hz
Horsepower	75.0	75.0
Speed, RPM	1185	980
Voltage	230/460	190/380
# Phase	3	
Full Load Amps	172.81/86.41	208/104
Power Factor	0.86	-
Nominal Efficiency	94.5	92.5
Service Factor	1.15	1.0
KVA Code	H	E
FL Amps. @ 208 V	-	-
LRC @ 60Hz HV	647.032	-
Start Capacitor	-	
Start Capacitor V	-	
Run Capacitor	-	
Run Capacitor V	-	
Number of Leads	12	
Connection	DD/D	
Coil Resistance	-	
Date Code	-	
Load	Efficiency %	P.F.
50%	94.05	0.76
75%	94.57	0.84
100%	94.33	0.86
FULL LOAD TEMPERATURE RISE		
FL Temp Rise °C	65.0	-
3D Image Link		
<a href="#">GR3-CI-TF-405TC-6-RR-D-75</a>		

GENERAL DATA		
Frame Size	405TC	
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 3"	
Feet Removable	-	
Double Drilled	true	
Paint Color	Graphite Gray	
Paint RAL	7024	
Weight lb	1045.17	
MECHANICAL DATA		
DE Bearing	NU316	
NDE Bearing	6314C3	
dB No-Load	-	
Rotor Wk <sup>2</sup> , Lb-Ft <sup>2</sup>	-	
Comp Ring (wavy washer)	-	
TORQUE VALUES		% FLT
Locked Rotor Torque	715.421	220.0
Pull-Up Torque	419.497	129.0
Breakdown Torque	822.734	253.0
Full Load Torque	325.191	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 Techtop for more info.



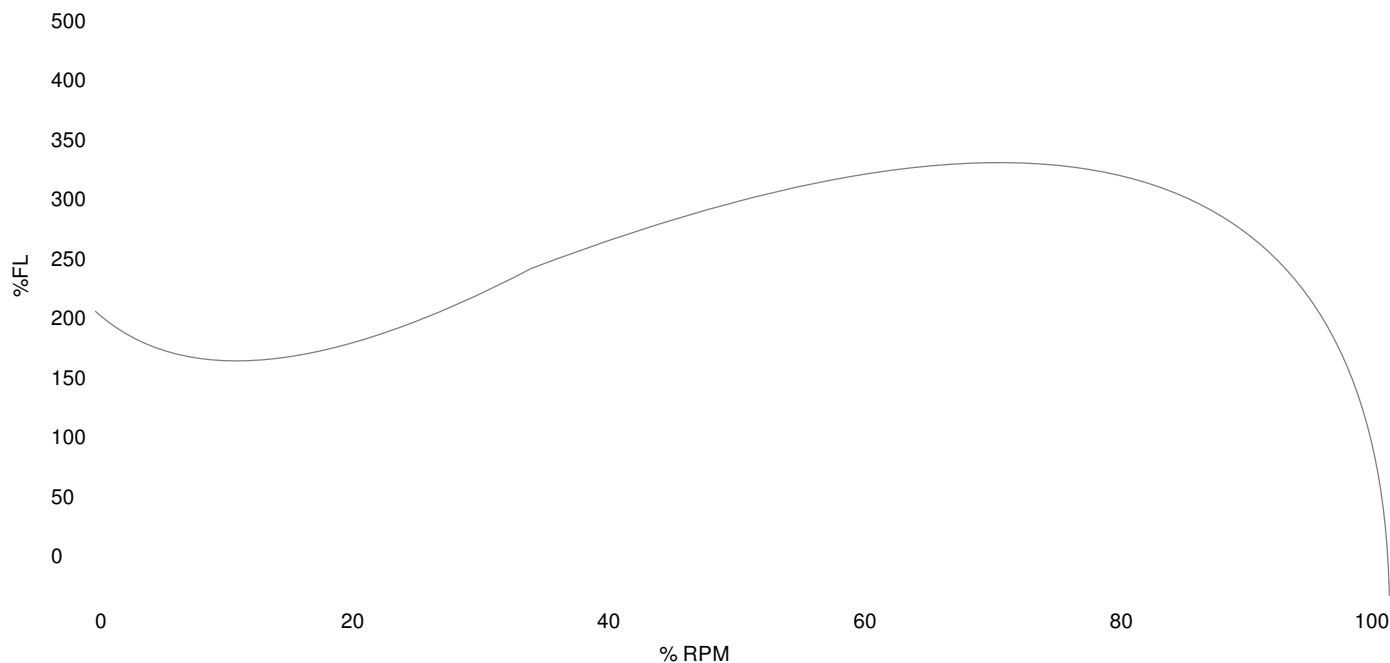
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Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

Torque Values	Torque lb-ft	% FLT	Performance Values
Locked Rotor Torque	715.421	220.0	Start Configuration
Pull-Up Torque	419.497	129.0	Starting Current (A)
Breakdown Torque	822.734	253.0	No-Load Current (A)
Full Load	325.191	100.0	No-Load Power Factor

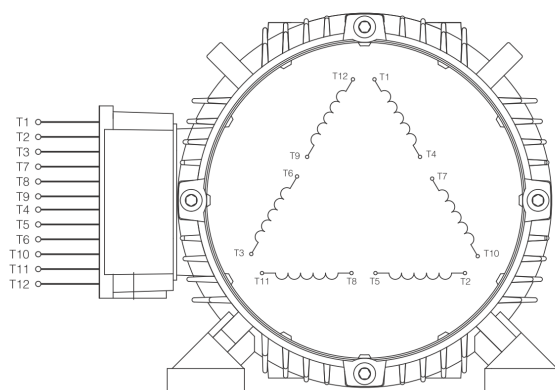
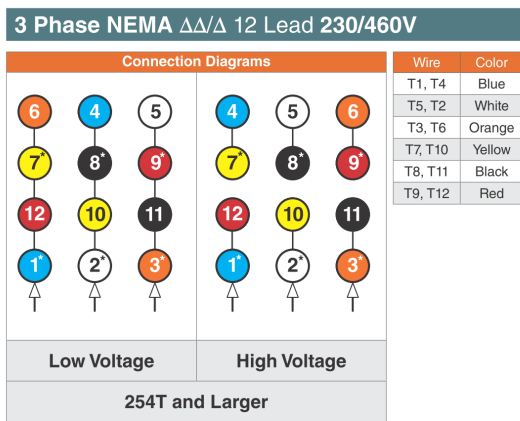
% Load	Horsepower	Current, Amps	Input power, Kilowatts	Speed, RPM	Efficiency	PF
0	-	28.81	-	-	-	-
25	18.75	33.99	15.12	1197.0	90.93	0.56
50	37.5	48.23	29.24	1194.2	94.05	0.76
75	56.25	65.25	43.62	1191.1	94.57	0.84
100	75.0	84.69	58.31	1187.6	94.33	0.86
125	93.75	106.15	73.34	1183.7	93.74	0.87

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When motor is in F1 position, leads shown with "\*" exit the casing above the center line of the motor, the remaining leads exit below the center line. This information can be used to identify missing or mislabelled leads.

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