CAPACITOR
SINGLE PHASE GENERATORS

Basic Model 201CSA5411 **Date: 8/18/11**

TYPICAL SUBMITTAL DATA

Kilowatt ratings at	**1800 RPM**	**60 Hertz**	**4 Leads**
kW (kVA)	**1 Phase**	**Dripproof or Open Enclosure**	

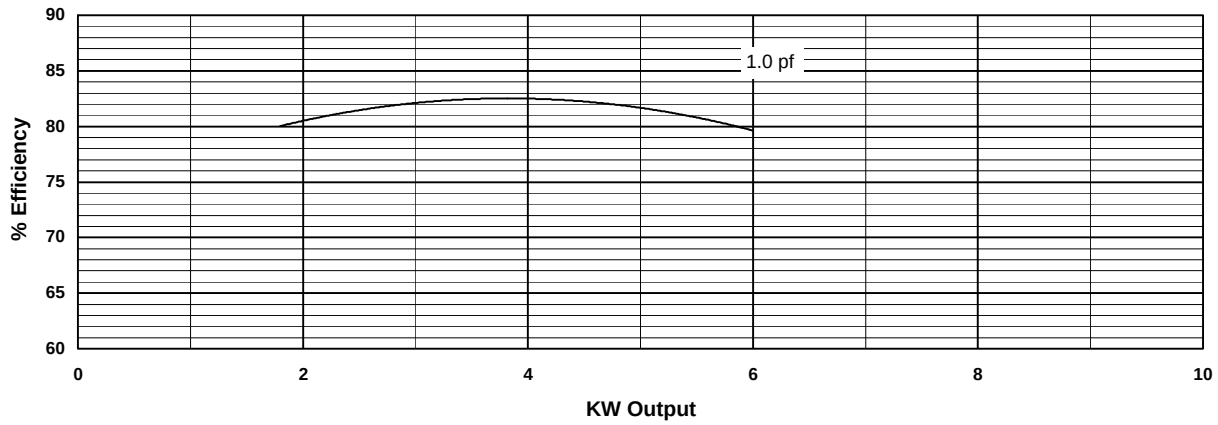
	Class B	Class F
P.F. Volts	**80 ºC ① Continuous**	**105 ºC ① Continuous**
1.0 P.F. 120/240V	**5.4 (5.4)**	**6.0 (6.0)**

① *Rise by resistance method, Mil-Std-705, Method 680.1b.*

MIL-Std-705B Method	Description	Value
302.1a	High Potential Test	
	Main Stator	1500 volts
	Main Rotor	1500 volts
401.1a	Stator Resistance, Line to Line	
	L-L 240V Connection	0.703 ohms
	Rotor Resistance	1.200 ohms
	E1-E4 Winding Resistance	1.832 ohms
415.0a	Rated Load Efficiency at 105 °C Cont.	80.3%
505.3b	Overspeed	2250 RPM

MIL-Std-705B Method	Description	Value
601.4a	L-L Harmonics Max. - Total (Distortion Factor)	27%
601.4a	L-L Harmonics Max. - Single	25%
---	Coupling - Single Bearing	Flexible
---	Maximum Vibration	
	Single Bearing	0.002 in
	Double Bearing	0.001 in
---	Generator Frame	201
---	Insulation	Class F
---	Capacitor Rating	450V, 25μF

TYPICAL GENERATOR EFFICIENCY



Application Guidelines The Marathon Electric capacitor generators are designed to minimize the length of the generator package. They utilize a capacitor excitation system which succeeds in eliminating the extra generator length associated with a brushless exciter. Since the capacitor winding is excited from the negative sequence voltage, there must be some harmonics present to provide this form of generator excitation. Because of the intrinsic harmonic content of the voltage waveform, this product is not recommended for uses where waveform distortion is of concern. The motor starting capability of this capacitor generator is also significantly less than a comparable transformer or electronically regulated generator. Primary use of this product is to power incandescent lighting, while providing a small amount of auxiliary power (total kW not to exceed rated kW).