GE Power Conversion

Product Information Packet

January 13, 2017

Data shown is for the current revision model #. Ensure your nameplate model # matches.

Model Number:	5KS511XAA245A
Catalog Number:	Q872
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG20
Outline Drawing:	239C6B00KY

Accessory Connection Diagrams				
Bearing Thermocouple:	None	Heater:	3027JE-1	
RTD:	235A3027WN	Thermistor:	None	
Thermostat:	None	Winding Thermocouple:	None	
Bearing RTD:	235A3027NA			

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Marks:

MODEL NUMBER:	5KS511XAA245A	Estimated Weight:	5567 Lbs
		•	
Outline Drawing:	239C6B00KY	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG20	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	841
Design Code:	50BD1170A	Ambient Max(°C):	40
Туре:	KS	Alt Ambient Max(°C):	
Frame:	5011L	Insulation Class:	F
Phases:	3	NEMA Design:	В
Poles:	4	Nominal Efficiency:	96.2 %
Output Power:	500HP 370KW	Guaranteed Efficiency:	95.4
RPM:	1785	3/4 Load Efficiency:	96.8
Voltage:	460	KVA Code:	G
Hertz:	60	Max KVAR:	91.5
Amps - FL:	541.0	Power Factor:	90.0
Service Factor:	1.15	Bearing - DE:	NU 320
Alt Service Factor:		Bearing - ODE:	6315ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

EXCEPTION TO IEEE-STD-841-2009: SOUND POWER 92 DBA TSTAT HTR LDS H 115V 200W DE BRG 100RU03M. ODE BRG 75BC03XP3 **INVERTER DUTY PER NEMA MG1 PART 31** ALTERNATE RATING FOR PWM CONTROL: 1.0SF 40C AMBIENT VAR TORQUE RANGE 0-60 HZ MAXIMUM EXPOSED INTERNAL AND EXTERNAL SURFACE TEMPERATURES DO NOT EXCEED 200C UNDER USUAL SERVICE CONDITIONS AT 1.0SF MAXIMUM SPACE HEATER SURFACE TEMPERATURE FOR NORMAL OPERATION AT RATED CONDITIONS 160C STAMP NP249A5499AP AS BELOW: MODEL:5KS511XAA245A S/N: XXX EX NA IIC T3 GC CSA.09.2216219 CLASS I, ZONE 2, AEX NA IIC T3 CLASS I, DIV 2, GROUPS A, B, C, D T3 -25C <= TAMB <= 40C ROLLER BEARING - FOR BELTED LOAD ONLY

Additional Information:

4P - L EXTN - SPLIT LEAD PAINTED FRAME ID & SHAFT, FAN COVER INSIDE & ODE E/S OUTSIDE 2500 CU IN - 2(4.00" NPT) C/B GRD PLATE INPRO SEAL BOTH ENDS OIL RESISTANT SLEEVING ON LEADS



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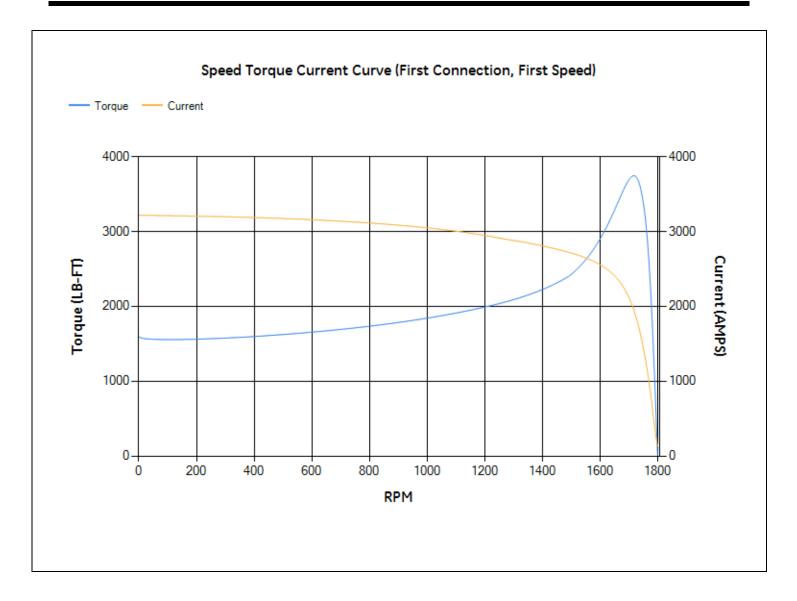
.002" TIR SHAFT RUNOUT ROUTINE TEST REPORT AND 5 POINT VIBRATION TEST **REPORT INCLUDED IN C/B** COPPER WASHER UNDER HEADS OF BEARING CAP BOLTS, APPLY TITE-SEAL (A50CD427A) ON BEARING CAP SCREWS, RABBETS AND PLUG THREADS. B5F4C4 HIGH STRENGTH STEEL AISI 4142 SHAFT MATERIAL 100 0HM WINDING RTD LEADS TO AUX C/BOX OPP MAIN C/BOX SUGGESTED WINDING RTD SETTINGS ALARM 165C TRIP 175C 115V TSTAT CTRLD HTR LDS TO AUX BOX OPP MAIN CONDUIT BOX SPACE HEATER CAUTION NAMEPLATE BEARING RTD 100 OHM ON BOTH ENDS SUGGESTED BEARING RTD SETTINGS ALARM 115C TRIP 125C NEMA TYPE GRD PAD **F1 MOUNTING** SHAFT BLOCKING FOR SHIPMENT



Model Number:5KS511XAA245A January 13, 20					nuary 13, 2017		
Performance (<u>Marks</u> :	Characteristics	<u>-</u>	1st Winding 1st Connection			<u>Desi</u> c	<u>ın: 50BD1170A</u>
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	96.18	96.36	96.78	96.79	96.61	95.04	0.00
% PF	90.05	90.21	90.15	88.84	84.12	67.11	4.14
AMPS	675.35	619.09	536.78	408.18	287.91	183.42	127.27
TORQ(FL)#FT AMPS(LR)	1471.05 3216.89		0(LR)%FL 「START	108.47 0.23	TOR	Q(BD)%FL	254.42

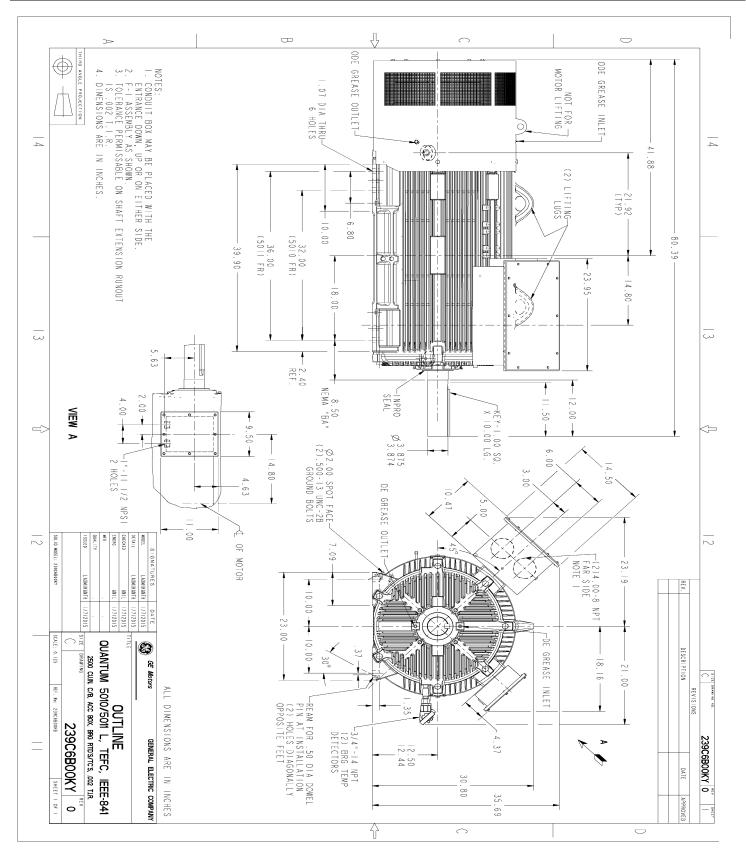
This motor is capable of two cold or one hot start with a maximum connected load inertia of 11638 Lb-Ft Sq (489.96 Kgmeter Sq)at 100% voltage, where the load torque varies with the square of the speed. Acceleration time with maximum inertia and the above load type is 46 seconds. Safe stall time at 100% voltage is 90 seconds cold, 56 seconds hot. Rotor inertia is 192.88 Lb-Ft Sq (8.12 Kg-meter Sq).

Open Circuit A-C:	1.302	Short Circuit D-C:	0.043
Short Circuit A-C:	0.046	X/R Ratio:	16.352
Stator Slots:	72	Rotor Slots:	58

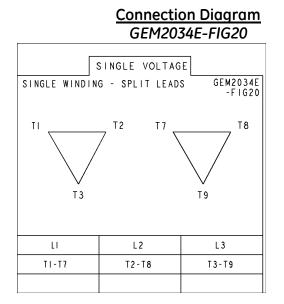


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Marks:



Heater Connection 3027JE-1 FIG. 1 HEATER CONN.		
⊢⊂ ► H		
CONTROL	L1 L2	
VOLTAGE ONLY	НН	



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