

Product Information Packet

November 8, 2016

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

Model Number:	5KS449SAA1009D
Catalog Number:	M9399
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG20
Outline Drawing:	239C6800GL

Accessory Connection Diagrams			
Bearing Thermocouple:	None	Heater:	None
RTD:	None	Thermistor:	None
Thermostat:	None	Winding Thermocouple:	None
Bearing RTD:	None		

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Marks:

MODEL NUMBER:	5KS449SAA1009D	Estimated Weight:	2820 Lbs
Outline Drawing:	239C6800GL	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG20	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	X\$D
Design Code:	49BD0089B	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	50
Frame:	449TS	Insulation Class:	H
Phases:	3	NEMA Design:	B
Poles:	2	Nominal Efficiency:	95.8 %
Output Power:	300HP 222KW	Guaranteed Efficiency:	95.4
RPM:	3575	3/4 Load Efficiency:	96.2
Voltage:	575	KVA Code:	G
Hertz:	60	Max KVAR:	46.2
Amps - FL:	253.0	Power Factor:	92.5
Service Factor:	1.15	Bearing - DE:	6314ZC3S0
Alt Service Factor:	1.00	Bearing - ODE:	6314ZC3S0

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

FOR DIRECT COUPLED LOAD ONLY
 ROT CCW FACING ODE LEAD/PH SEQ 3-2-1/1-2-3
 STAMP NP249A5564P051 AS BELOW:
 MODEL:5KS449SAA1009D S/N: XXX
 CSA CERTIFIED CSA09.2216219 FOR EX NA IIC 215 C GC
 CL 1 ZONE2 AEX NA IIC 215C;CL 1 DIV2 GRP ABCD 215C
 IN -40C <= AMB <= 40C, 1.0 SF ON SINE-WAVE PWR
 SURF TEMP ---C AT 1.15SF ON SINE-WAVE PWR
 OR --- C VT OR --- C CT OR --- C CHP PWM CONTROL
 ALTERNATE RATING FOR PWM CONTROL 1.0SF 40C AMB
 VT 0-60 HZ, CT --- HZ, CHP --- HZ.

Additional Information:

2P - TS EXTN - SPLIT LEAD
 1260 CU IN - 2(4.00" NPT)
 C/B GRD PLATE
 OIL RESISTANT SLEEVING ON LEADS
 HEAT STABILIZED BEARINGS
 F1 MOUNTING

Performance Characteristics

1st Winding 1st Connection

Design: 49BD0089B

Marks:

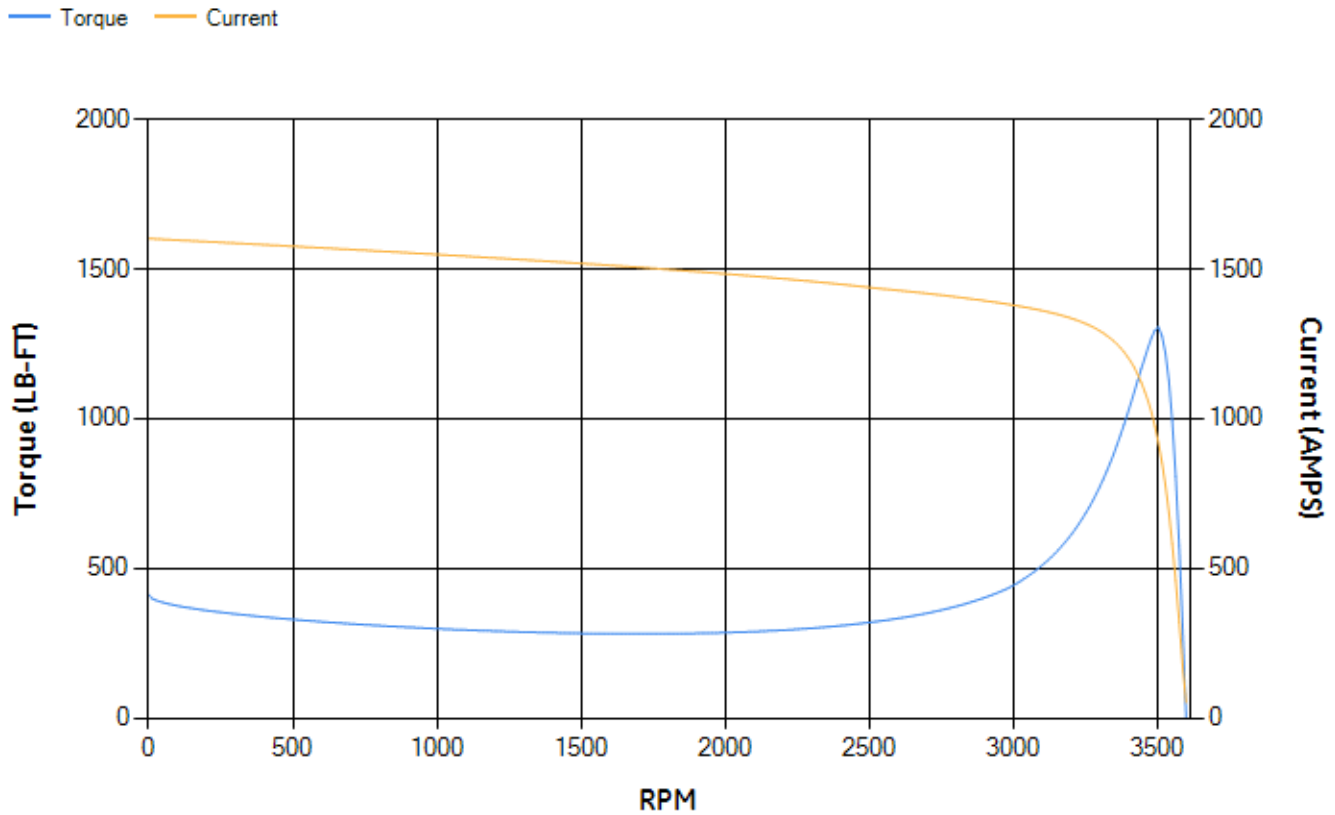
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	95.34	95.57	96.08	96.21	96.11	94.48	0.00
% PF	92.07	92.25	92.28	91.4	87.78	73.24	5.3
AMPS	319.88	292.99	253.33	191.6	133.14	81.15	51.6

TORQ(FL)#FT	440.26	TORQ(LR)%FL	93.49	TORQ(BD)%FL	296.35
AMPS(LR)	1601.69	PF AT START	0.18		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 598 Lb-Ft Sq (25.18 Kg-meter 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 31 seconds. Safe stall time at 100% voltage is 88 seconds cold, 37 seconds hot. Rotor inertia is 50.9 Lb-Ft Sq (2.14 Kg-meter Sq).

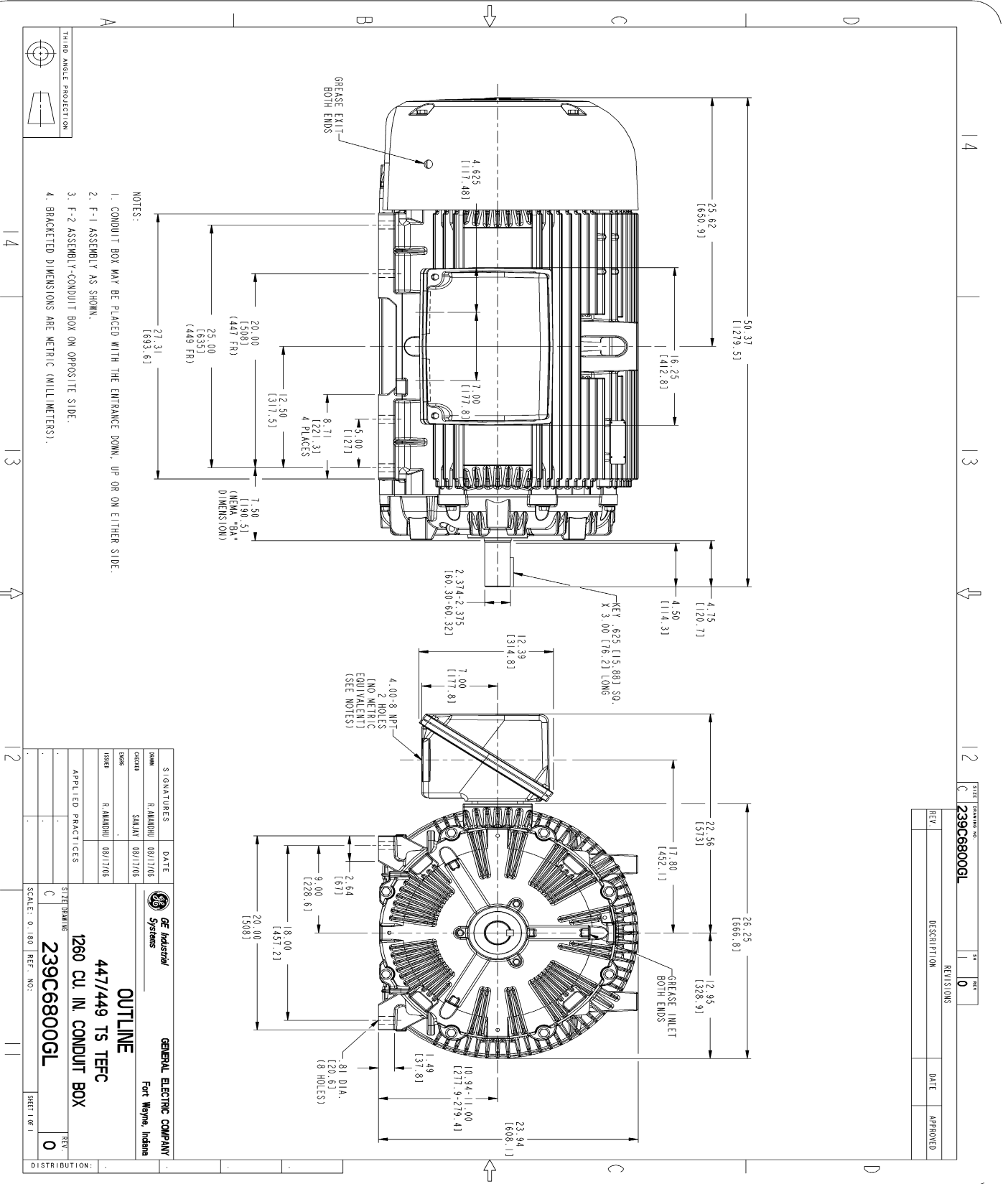
Open Circuit A-C:	2.109	Short Circuit D-C:	0.034
Short Circuit A-C:	0.071	X/R Ratio:	12.699
Stator Slots:	48	Rotor Slots:	38

Speed Torque Current Curve (First Connection, First Speed)



NAME: 501073830 OBJECT: 239C6800GL DATE: 15-Sep-06 11:12:37

Marks:



- NOTES:
1. CONDUIT BOX MAY BE PLACED WITH THE ENTRANCE DOWN, UP OR ON EITHER SIDE.
 2. F-1 ASSEMBLY AS SHOWN.
 3. F-2 ASSEMBLY-CONDUIT BOX ON OPPOSITE SIDE.
 4. BRACKETED DIMENSIONS ARE METRIC (MILLIMETERS).

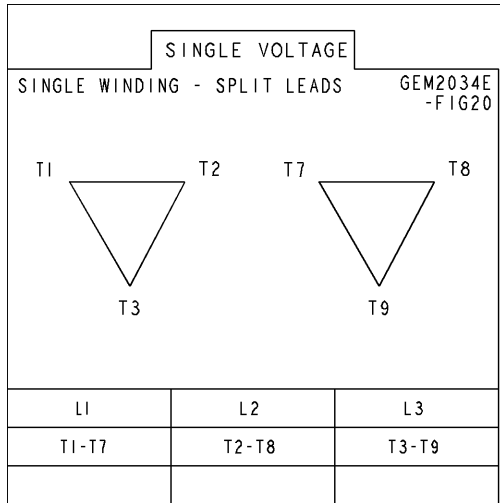
DRAWING NO. 239C6800GL		REV. 0	
REV.	DESCRIPTION	DATE	APPROVED

SIGNATURES	DATE	<p>GENERAL ELECTRIC COMPANY Fort Wayne, Indiana</p>
DESIGNED BY: R. AMANDI	09/17/05	
DRAWN BY: S. AMI	09/17/05	
CHECKED BY: R. AMANDI	09/17/05	
<p>OUTLINE 447/449 TS TEFC 1260 CU. IN. CONDUIT BOX</p>		<p>SCALE: 0.180 REF. NO.: 0</p>

DISTRIBUTION: SHEET 1 OF 1

Marks:

Connection Diagram
GEM2034E-FIG20



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	115E4354AA1	115E4354LL1
Bearing	235A2516AC02	235A2516AC02
Slinger/Inproseal	149C4399G05	149C4399G05

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	149C4287AA1
Fan Cover	128D6841AC1

Conduit & Accessories Box Assembly	
Part Description	Part#
Conduit Box	179B9058G03

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	