

# Product Information Packet

November 8, 2016

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

<b>Model Number:</b>	<b>5KS449SAA124D5</b>
<b>Catalog Number:</b>	<b>M8961</b>
<b>Instruction Manual:</b>	GEI-56128
<b>Connection Diagram:</b>	GEM2034E-FIG20
<b>Outline Drawing:</b>	239C6800GL

Accessory Connection Diagrams			
<b>Bearing Thermocouple:</b>	None	<b>Heater:</b>	None
<b>RTD:</b>	None	<b>Thermistor:</b>	None
<b>Thermostat:</b>	None	<b>Winding Thermocouple:</b>	None
<b>Bearing RTD:</b>	None		

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**Marks:**

<b>MODEL NUMBER:</b>	<b>5KS449SAA124D5</b>	<b>Estimated Weight:</b>	2820 Lbs
<b>Outline Drawing:</b>	239C6800GL	<b>Time Rating:</b>	CONT
<b>Connection Diagram:</b>	GEM2034E-FIG20	<b>Enclosure:</b>	TEFC
<b>Instruction Book:</b>	GEI-56128	<b>Encl Construction:</b>	X\$D
<b>Design Code:</b>	49BD0089B	<b>Ambient Max(°C):</b>	40
<b>Type:</b>	KS	<b>Alt Ambient Max(°C):</b>	50
<b>Frame:</b>	449TS	<b>Insulation Class:</b>	H
<b>Phases:</b>	3	<b>NEMA Design:</b>	B
<b>Poles:</b>	2	<b>Nominal Efficiency:</b>	95.8 %
<b>Output Power:</b>	300HP 222KW	<b>Guaranteed Efficiency:</b>	95.4
<b>RPM:</b>	3575	<b>3/4 Load Efficiency:</b>	96.2
<b>Voltage:</b>	575	<b>KVA Code:</b>	G
<b>Hertz:</b>	60	<b>Max KVAR:</b>	46.2
<b>Amps - FL:</b>	253.0	<b>Power Factor:</b>	92.5
<b>Service Factor:</b>	1.15	<b>Bearing - DE:</b>	6314ZC3S0
<b>Alt Service Factor:</b>	1.00	<b>Bearing - ODE:</b>	6314ZC3S0

**Enclosure is Totally Enclosed Fan-Cooled**

**Stamped Nameplate Notes:**

FOR DIRECT COUPLED LOAD ONLY  
 ROT CW FACING ODE LEAD/PH SEQ 1-2-3/1-2-3  
 STAMP NP249A5564P051 AS BELOW:  
 MODEL:5KS449SAA124D5 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:**

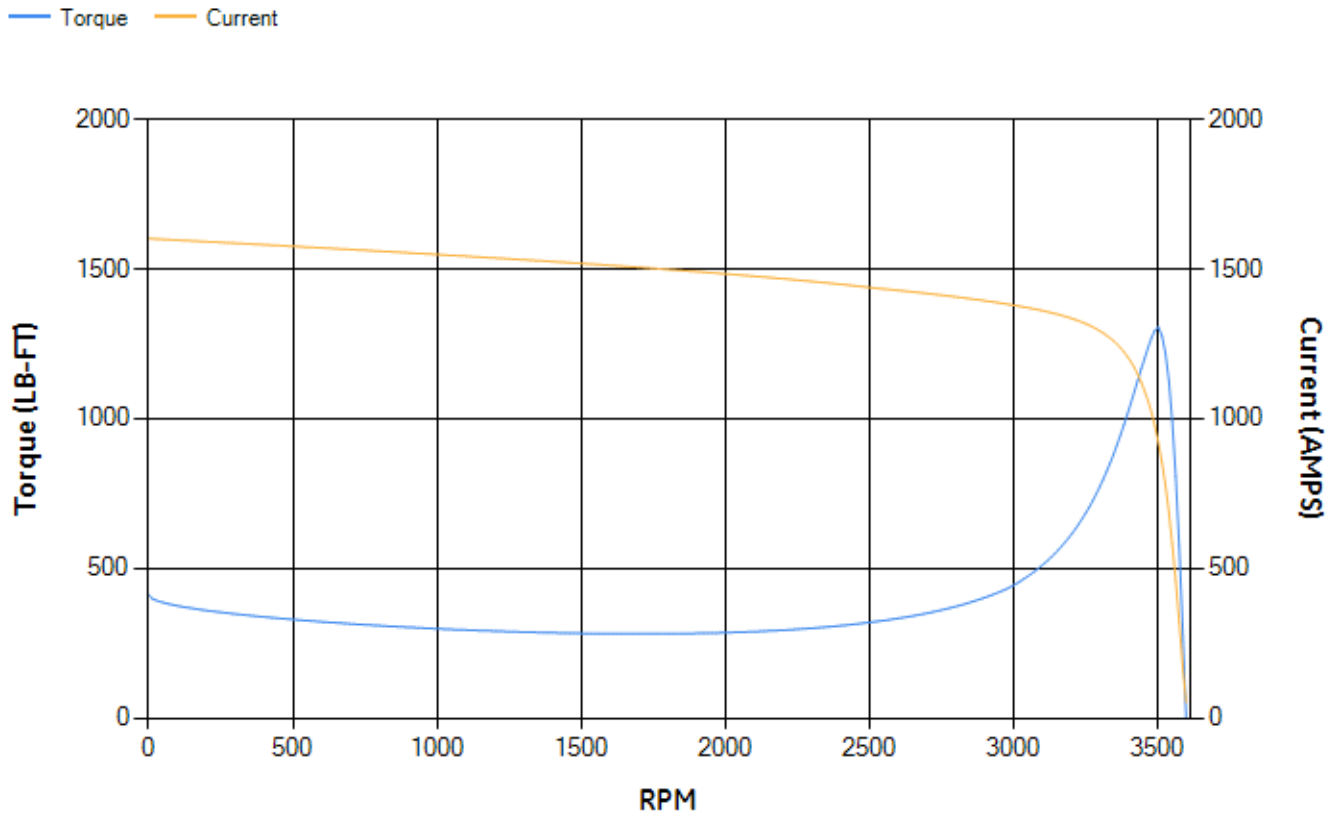
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	95.34	95.57	96.08	96.21	96.11	94.48	0.00
% PF	92.07	92.25	92.28	91.4	87.78	73.24	5.3
AMPS	319.88	292.99	253.33	191.6	133.14	81.15	51.6

<b>TORQ(FL)#FT</b>	440.26	<b>TORQ(LR)%FL</b>	93.49	<b>TORQ(BD)%FL</b>	296.35
<b>AMPS(LR)</b>	1601.69	<b>PF AT START</b>	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).

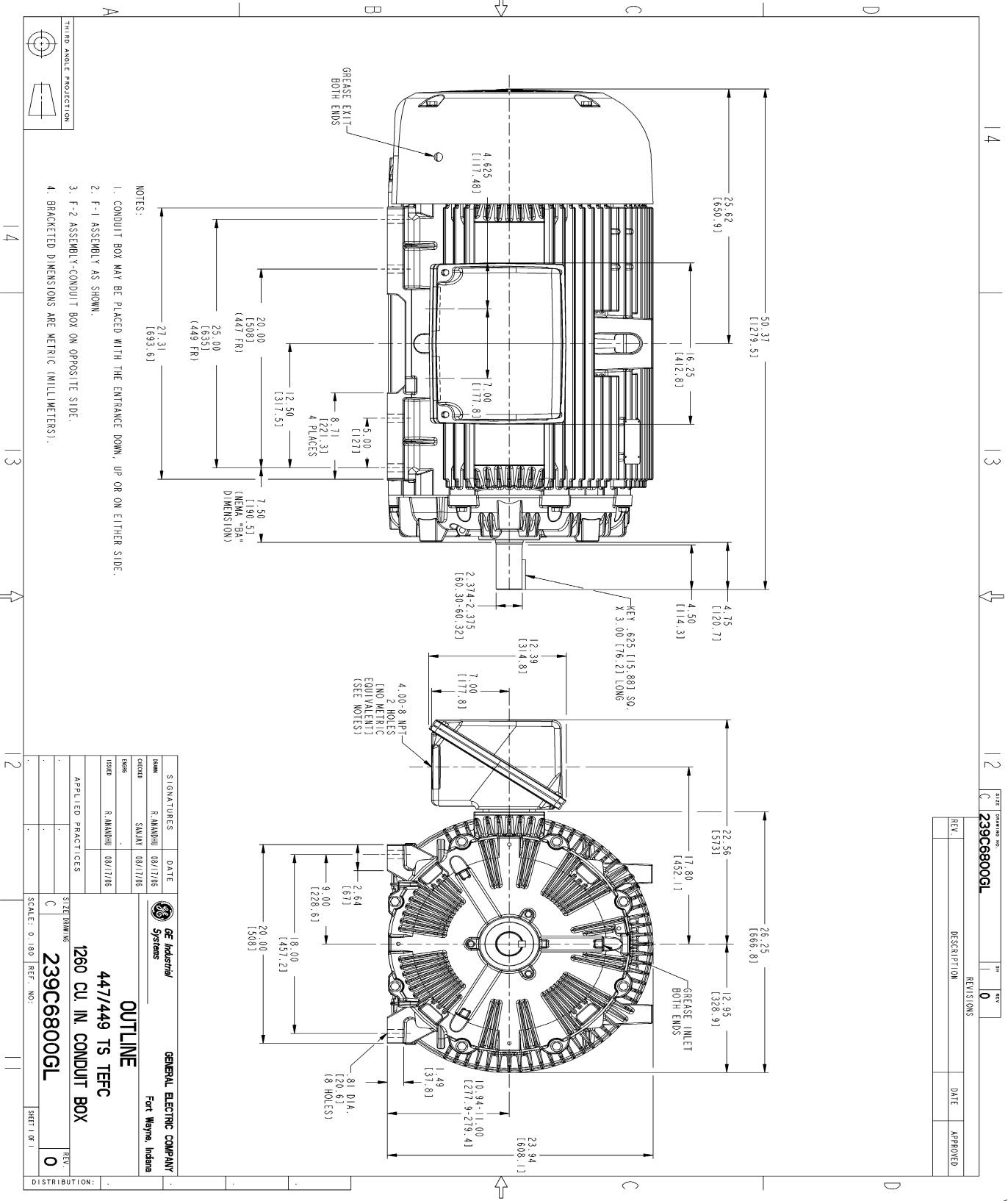
<b>Open Circuit A-C:</b>	2.109	<b>Short Circuit D-C:</b>	0.034
<b>Short Circuit A-C:</b>	0.071	<b>X/R Ratio:</b>	12.699
<b>Stator Slots:</b>	48	<b>Rotor Slots:</b>	38

**Speed Torque Current Curve (First Connection, First Speed)**

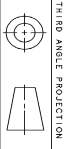


NAME: 501073830 OBJECT: 239C6800GL DATE: 15-Sep-06 11:12:37

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).



REV.	DESCRIPTION	DATE	APPROVED
0			

DATE	DATE	DATE	DATE
09/17/05	09/17/05	09/17/05	09/17/05
SIGNATURES	SIGNATURES	SIGNATURES	SIGNATURES
R. AMANDU	R. AMANDU	R. AMANDU	R. AMANDU
DESIGN	DESIGN	DESIGN	DESIGN
SANJAY	SANJAY	SANJAY	SANJAY
APPLIED PRACTICES	APPLIED PRACTICES	APPLIED PRACTICES	APPLIED PRACTICES
R. AMANDU	R. AMANDU	R. AMANDU	R. AMANDU
09/17/05	09/17/05	09/17/05	09/17/05
SCALE: 0.180	REF. NO.:	SHEET OF 1	REV. 0
<p><b>GENERAL ELECTRIC COMPANY</b>  <b>Fort Wayne, Indiana</b>  <b>GE Industrial Systems</b>  <b>OUTLINE</b>  <b>447/449 TS TEFCC</b>  <b>1260 CU. IN. CONDUIT BOX</b>  <b>239C6800GL</b></p>			

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	149C4261AK1
Fan Cover	128D6841AC1

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

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	