

# Product Information Packet

November 8, 2016

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

<b>Model Number:</b>	<b>5KS449SAA382B</b>
<b>Catalog Number:</b>	<b>M9198</b>
<b>Instruction Manual:</b>	GEI-56128
<b>Connection Diagram:</b>	GEM2034E-FIG8
<b>Outline Drawing:</b>	239C6800AA

<b>Accessory Connection Diagrams</b>			
<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>5KS449SAA382B</b>	<b>Estimated Weight:</b>	3060 Lbs
<b>Outline Drawing:</b>	239C6800AA	<b>Time Rating:</b>	CONT
<b>Connection Diagram:</b>	GEM2034E-FIG8	<b>Enclosure:</b>	TEFC
<b>Instruction Book:</b>	GEI-56128	<b>Encl Construction:</b>	X\$D
<b>Design Code:</b>	49BD3013A	<b>Ambient Max(°C):</b>	40
<b>Type:</b>	KS	<b>Alt Ambient Max(°C):</b>	65
<b>Frame:</b>	449T	<b>Insulation Class:</b>	H
<b>Phases:</b>	3	<b>NEMA Design:</b>	B
<b>Poles:</b>	6	<b>Nominal Efficiency:</b>	95.8 %
<b>Output Power:</b>	200HP 148KW	<b>Guaranteed Efficiency:</b>	95.4
<b>RPM:</b>	1190	<b>3/4 Load Efficiency:</b>	96.0
<b>Voltage:</b>	460	<b>KVA Code:</b>	G
<b>Hertz:</b>	60	<b>Max KVAR:</b>	50.2
<b>Amps - FL:</b>	227.0	<b>Power Factor:</b>	86.0
<b>Service Factor:</b>	1.25	<b>Bearing - DE:</b>	NU 318
<b>Alt Service Factor:</b>	1.00	<b>Bearing - ODE:</b>	6318ZC3

**Enclosure is Totally Enclosed Fan-Cooled**

**Stamped Nameplate Notes:**

ROLLER BEARING - FOR BELTED LOAD ONLY  
 SF AMPS 284.8  
 STAMP NP249A5564P051 AS BELOW:  
 MODEL:5KS449SAA382B S/N: XXX  
 CSA CERTIFIED CSA09.2216219 FOR EX NA IIC 200 C GC  
 CL 1 ZONE2 AEX NA IIC 200C;CL 1 DIV2 GRP ABCD 200C  
 IN -40C <= AMB <= 40C, 1.0 SF ON SINE-WAVE PWR  
 SURF TEMP 280C AT 1.25SF ON SINE-WAVE PWR  
 OR 200C VT OR 230C CT OR 200C CHP PWM CONTROL  
 ALTERNATE RATING FOR PWM CONTROL 1.0SF 40C AMB  
 VT 0 - 60 HZ, CT 20-60 HZ, CHP 60-90 HZ.

**Additional Information:**

6P - T EXTN - SPLIT LEAD  
 700 CU IN - 3.00" NPT  
 OIL RESISTANT SLEEVING ON LEADS  
 B5F4C4 HIGH FATIGUE STEEL AISI 4142 SHAFT MATERIAL  
 F1 MOUNTING

**Performance Characteristics**

1st Winding 1st Connection

**Design: 49BD3013A**

**Marks:**

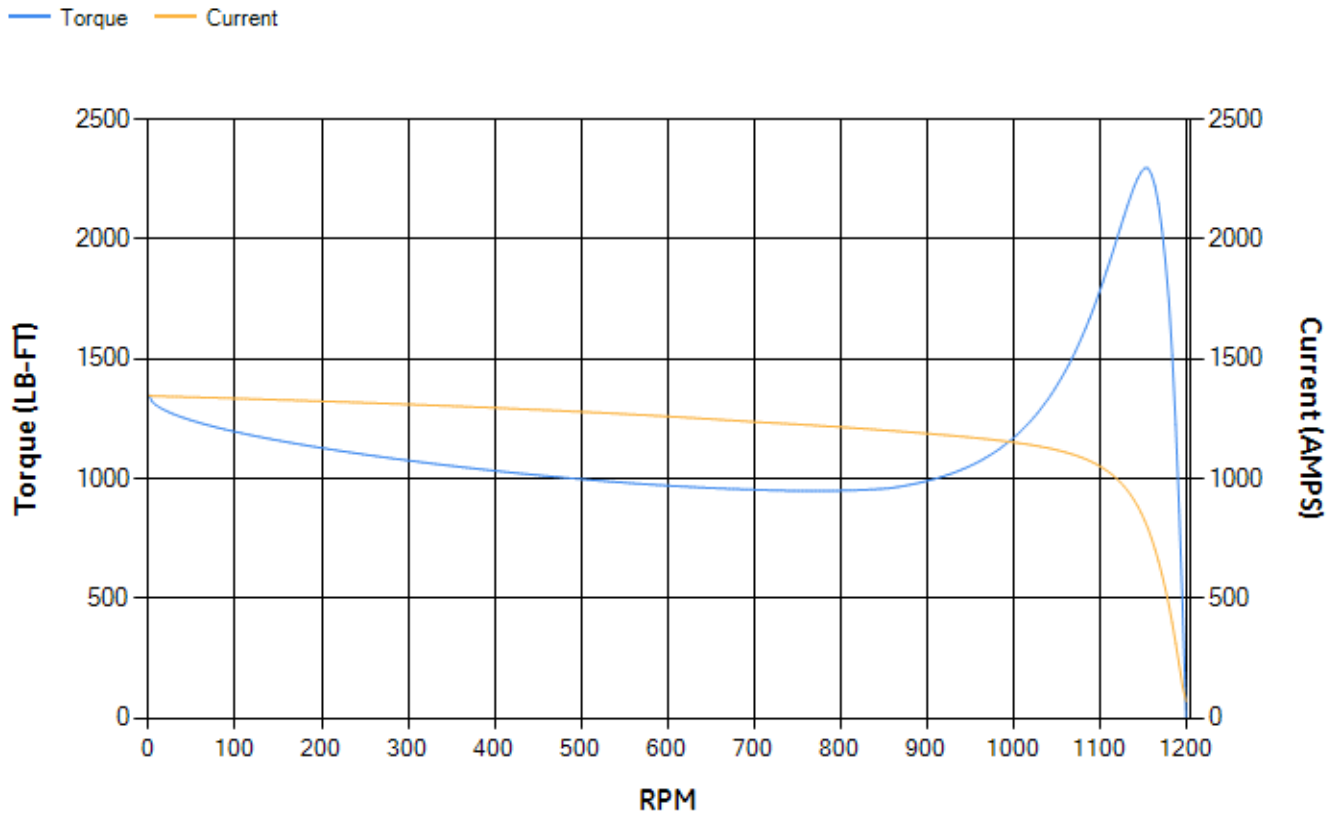
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	95.01	95.28	95.82	95.99	95.9	94.21	0.00
% PF	86.48	86.45	85.96	83.41	76.19	55.6	3.41
AMPS	284.77	261.35	227.25	175.35	128.08	89.34	70.03

<b>TORQ(FL)#FT</b>	881.68	<b>TORQ(LR)%FL</b>	153.09	<b>TORQ(BD)%FL</b>	260.27
<b>AMPS(LR)</b>	1345.09	<b>PF AT START</b>	0.27		

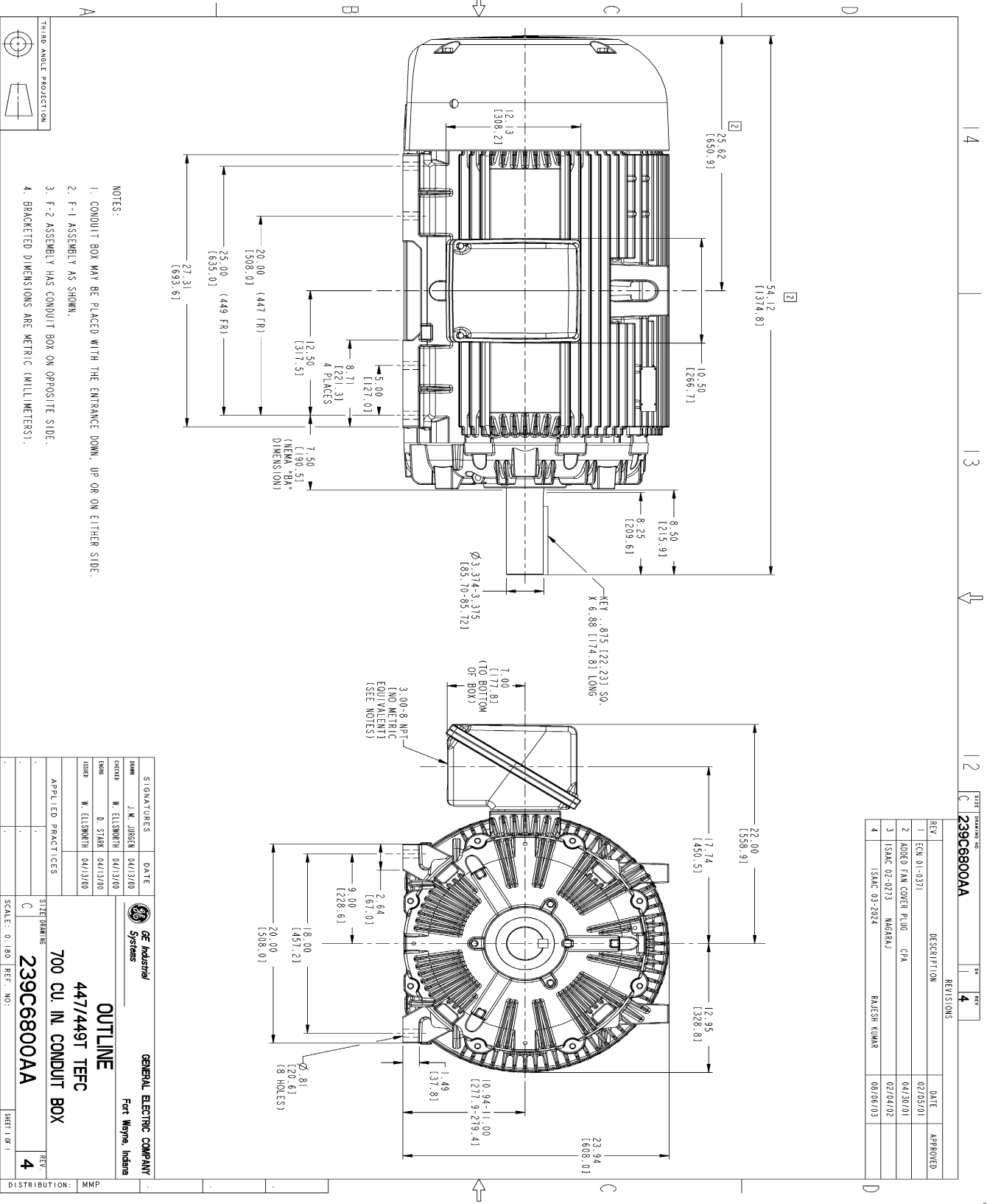
This motor is capable of two cold or one hot start with a maximum connected load inertia of 13993 Lb-Ft Sq (589.11 Kg-meter Sq) at 100% voltage, where the load torque varies with the square of the speed. Acceleration time with maximum inertia and the above load type is 64 seconds. Safe stall time at 100% voltage is 139 seconds cold, 77 seconds hot. Rotor inertia is 194.39 Lb-Ft Sq (8.18 Kg-meter Sq).

<b>Open Circuit A-C:</b>	1.133	<b>Short Circuit D-C:</b>	0.032
<b>Short Circuit A-C:</b>	0.054	<b>X/R Ratio:</b>	12.195
<b>Stator Slots:</b>	72	<b>Rotor Slots:</b>	58

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



Marks:



REV.	DESCRIPTION	DATE	APPROVED
1	ECN 01-0371	02/05/01	
2	MODIFIED FAN COVER PLUG CFA	04/30/01	
3	ISSAC 02-0213 MARGRAJ	02/04/02	
4	ISSAC 03-2024 RAJESH KUMAR	08/06/03	

NOTES:

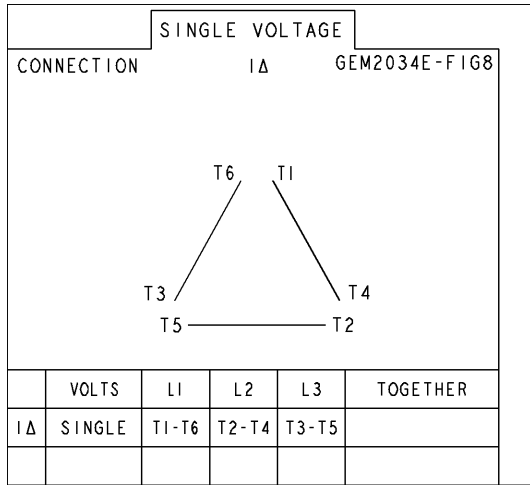
1. CONDUIT BOX MAY BE PLACED WITH THE ENTRANCE DOWN, UP OR ON EITHER SIDE.
2. F-1 ASSEMBLY AS SHOWN.
3. F-2 ASSEMBLY HAS CONDUIT BOX ON OPPOSITE SIDE.
4. BRACKETED DIMENSIONS ARE METRIC (MILLIMETERS).

SIGNATURES	DATE	GENERAL ELECTRIC COMPANY Fort Wayne, Indiana
DESIGNER: J.M. JOHNSON	04/13/00	<b>OUTLINE</b> <b>447/449T TEFC</b> <b>700 CU. INL CONDUIT BOX</b>
CHECKED: W. ELLSWORTH	04/13/00	
DRAWN: D. STARK	04/13/00	
ISSUED: W. ELLSWORTH	04/13/00	

SCALE: 0.180 REF. NO.: 239C6800AA SHEET 1 OF 1

Marks:

**Connection Diagram**  
**GEM2034E-FIG8**



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	115E4355AA1	115E4355LL1
Bearing	235A2519AA01	235A2514AG01
Slinger/Inproseal	149C4399G07	149C4399G07

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	159C7100G03
Fan Cover	128D6841AA1

Conduit & Accessories Box Assembly	
Part Description	Part#
Conduit Box	118D4408AD2

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	