

# Product Information Packet

November 8, 2016

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

<b>Model Number:</b>	<b>5KS404SAA408D7</b>
<b>Catalog Number:</b>	<b>M9773</b>
<b>Instruction Manual:</b>	GEI-56128
<b>Connection Diagram:</b>	GEM2034E-FIG7
<b>Outline Drawing:</b>	239C6400AA

<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>5KS404SAA408D7</b>	<b>Estimated Weight:</b>	1390 Lbs
<b>Outline Drawing:</b>	239C6400AA	<b>Time Rating:</b>	CONT
<b>Connection Diagram:</b>	GEM2034E-FIG7	<b>Enclosure:</b>	TEFC
<b>Instruction Book:</b>	GEI-56128	<b>Encl Construction:</b>	X\$D
<b>Design Code:</b>	40BD4022A	<b>Ambient Max(°C):</b>	40
<b>Type:</b>	KS	<b>Alt Ambient Max(°C):</b>	60
<b>Frame:</b>	404T	<b>Insulation Class:</b>	H
<b>Phases:</b>	3	<b>NEMA Design:</b>	B
<b>Poles:</b>	8	<b>Nominal Efficiency:</b>	92.4 %
<b>Output Power:</b>	50HP 37KW	<b>Guaranteed Efficiency:</b>	91.7
<b>RPM:</b>	890	<b>3/4 Load Efficiency:</b>	93.1
<b>Voltage:</b>	460	<b>KVA Code:</b>	G
<b>Hertz:</b>	60	<b>Max KVAR:</b>	29.3
<b>Amps - FL:</b>	72.9	<b>Power Factor:</b>	69.5
<b>Service Factor:</b>	1.15	<b>Bearing - DE:</b>	6316ZC3S0
<b>Alt Service Factor:</b>	1.00	<b>Bearing - ODE:</b>	6316ZC3S0

**Enclosure is Totally Enclosed Fan-Cooled**

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**Stamped Nameplate Notes:**

STAMP NP249A5564P051 AS BELOW:  
 MODEL:5KS404SAA408D7 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 230C AT 1.15SF 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 15-60 HZ, CHP 60-90 HZ.

**Additional Information:**

8P - T EXTN  
 C/BOX 700 CU IN - 3.00" NPT  
 OIL RESISTANT SLEEVING ON LEADS  
 F1 MOUNTING

**Performance Characteristics**

1st Winding 1st Connection

**Design: 40BD4022A**

**Marks:**

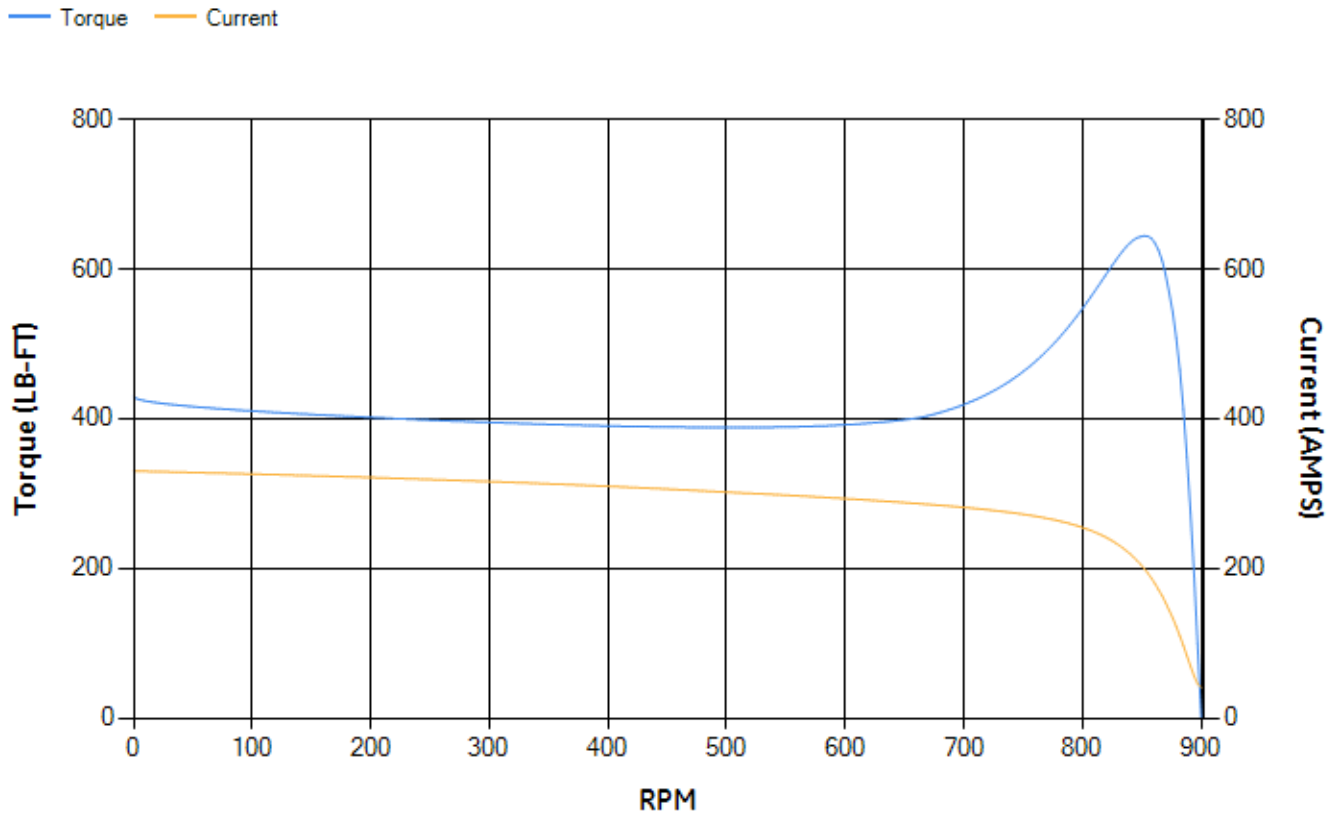
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	92.09	92.43	93.02	93.06	92.34	88.39	0.00
% PF	73.13	72	69.51	62.5	50.16	30.25	3.03
AMPS	86.86	80.86	72.33	60.34	50.52	43.76	40.81

<b>TORQ(FL)#FT</b>	295.22	<b>TORQ(LR)%FL</b>	145.53	<b>TORQ(BD)%FL</b>	217.7
<b>AMPS(LR)</b>	330.02	<b>PF AT START</b>	0.36		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 4531 Lb-Ft Sq (190.76 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 41 seconds. Safe stall time at 100% voltage is 118 seconds cold, 62 seconds hot. Rotor inertia is 26.19 Lb-Ft Sq (1.1 Kg-meter Sq).

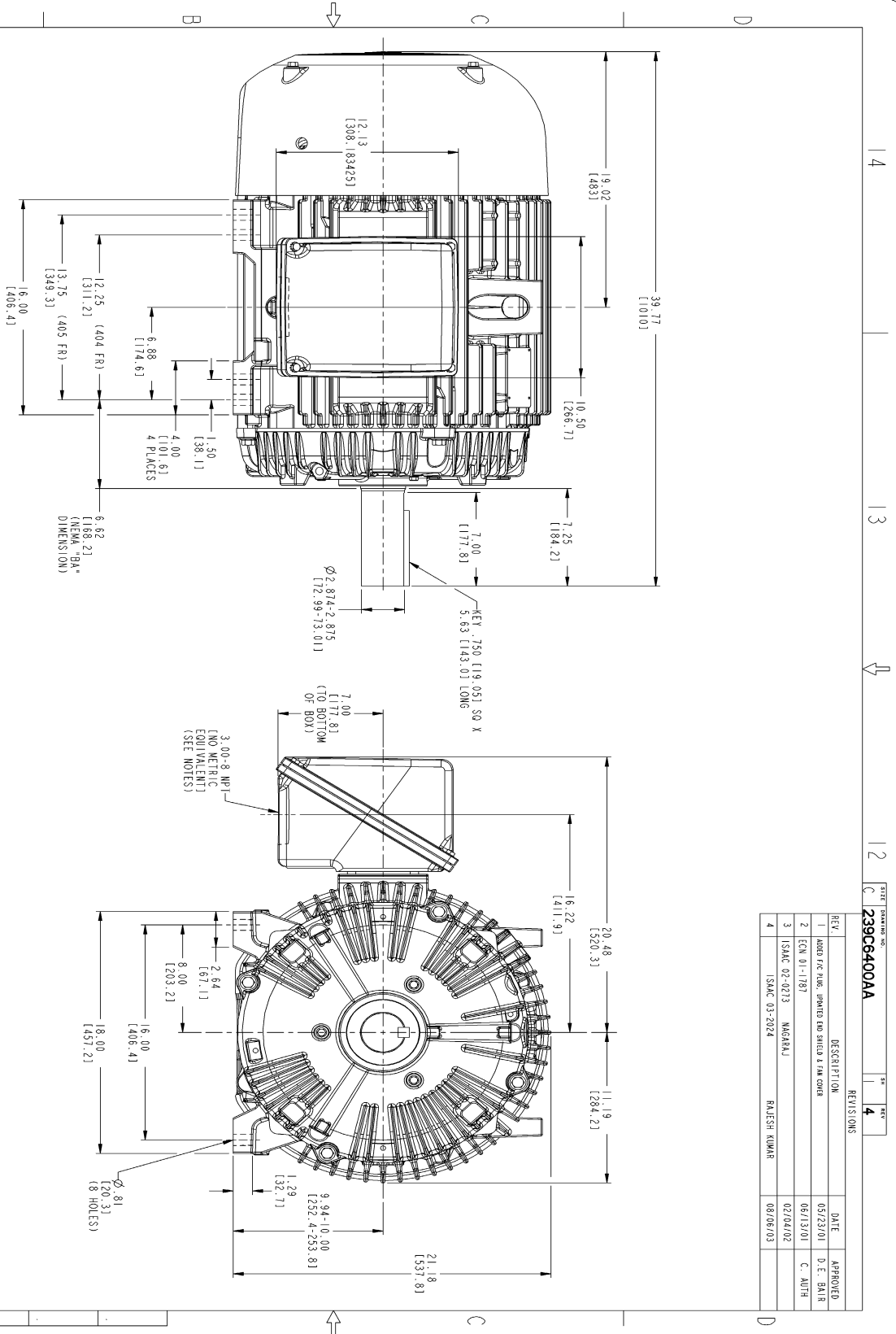
<b>Open Circuit A-C:</b>	0.346	<b>Short Circuit D-C:</b>	0.019
<b>Short Circuit A-C:</b>	0.038	<b>X/R Ratio:</b>	7.257
<b>Stator Slots:</b>	72	<b>Rotor Slots:</b>	58

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



NAME: 103016807 OBJECT: 239C6400AA DATE: 08-Aug-03 09:32:41

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 HAS CONDUIT BOX ON OPPOSITE SIDE.
4. BRACKETED DIMENSIONS ARE METRIC (MILLIMETERS).

REV.	DESCRIPTION	DATE	APPROVED
1	ADDED FFC RING, IMPROVED END SHIELD & FAN COVER	05/23/01	D. E. BAIR
2	ECN 01-1183	06/13/01	C. ALTH
3	ISMAC 02-0273 MARGRAJ	02/04/02	
4	ISMAC 03-2024 RAJESH KUMAR	08/06/03	

SIZE	DRAWING NO.	REV.
C	239C6400AA	4

SIGNATURES	DATE	GENERAL ELECTRIC COMPANY
DESIGNER: J.M. JOHNSON	03/29/00	Fort Wayne, Indiana
CHECKED: W. ELLISWORTH	05/11/00	
DRAWN: D. STARK	05/11/00	
APPLIED PRACTICES		
SCALE: 0.220	REF. NO.:	

**OUTLINE**  
404/405T TEFC  
700 CU. IN. CONDUIT BOX

239C6400AA

DISTRIBUTION: MMP

Marks:

**Connection Diagram**  
**GEM2034E-FIG7**



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	115E4304AA1	115E4304LL1
Bearing	235A2618AA04	235A2618AA04
Slinger/Inproseal	149C4399G06	149C4399G06

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	159C7100G02
Fan Cover	128D6832AA1

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

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	