

Product Information Packet

November 9, 2016

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

Model Number:	5KS405SAA2084D
Catalog Number:	M7754
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG7
Outline Drawing:	239C6400AA

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

Table of Contents

Specification	01
Performance Characteristics	02
Outline Drawing	03
Connection Drawing(s)	04
Spare parts	05



Marks:

MODEL NUMBER:	5KS405SAA2084D	Estimated Weight:	1440 Lbs
Outline Drawing:	239C6400AA	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG7	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	X\$D
Design Code:	40BD1112A	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	65
Frame:	405T	Insulation Class:	H
Phases:	3	NEMA Design:	B
Poles:	4	Nominal Efficiency:	95.4 %
Output Power:	100HP 74KW	Guaranteed Efficiency:	95.0
RPM:	1785	3/4 Load Efficiency:	95.6
Voltage:	460	KVA Code:	G
Hertz:	60	Max KVAR:	36.3
Amps - FL:	122.0	Power Factor:	80.5
Service Factor:	1.25	Bearing - DE:	NU 316
Alt Service Factor:	1.00	Bearing - ODE:	6316ZC3S0

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

ROLLER BEARING - FOR BELTED LOAD ONLY
 SF AMPS 149.6
 STAMP NP249A5564P051 AS BELOW:
 MODEL:5KS405SAA2084D 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 215C AT 1.25SF ON SINE-WAVE PWR
 OR 200C VT OR 230C CT OR -- CHP PWM CONTROL
 ALTERNATE RATING FOR PWM CONTROL 1.0SF 40C AMB
 VT 0-60 HZ, CT 15-60 HZ, CHP -- HZ.

Additional Information:

4P - T EXTN
 C/BOX 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: 40BD1112A

Marks:

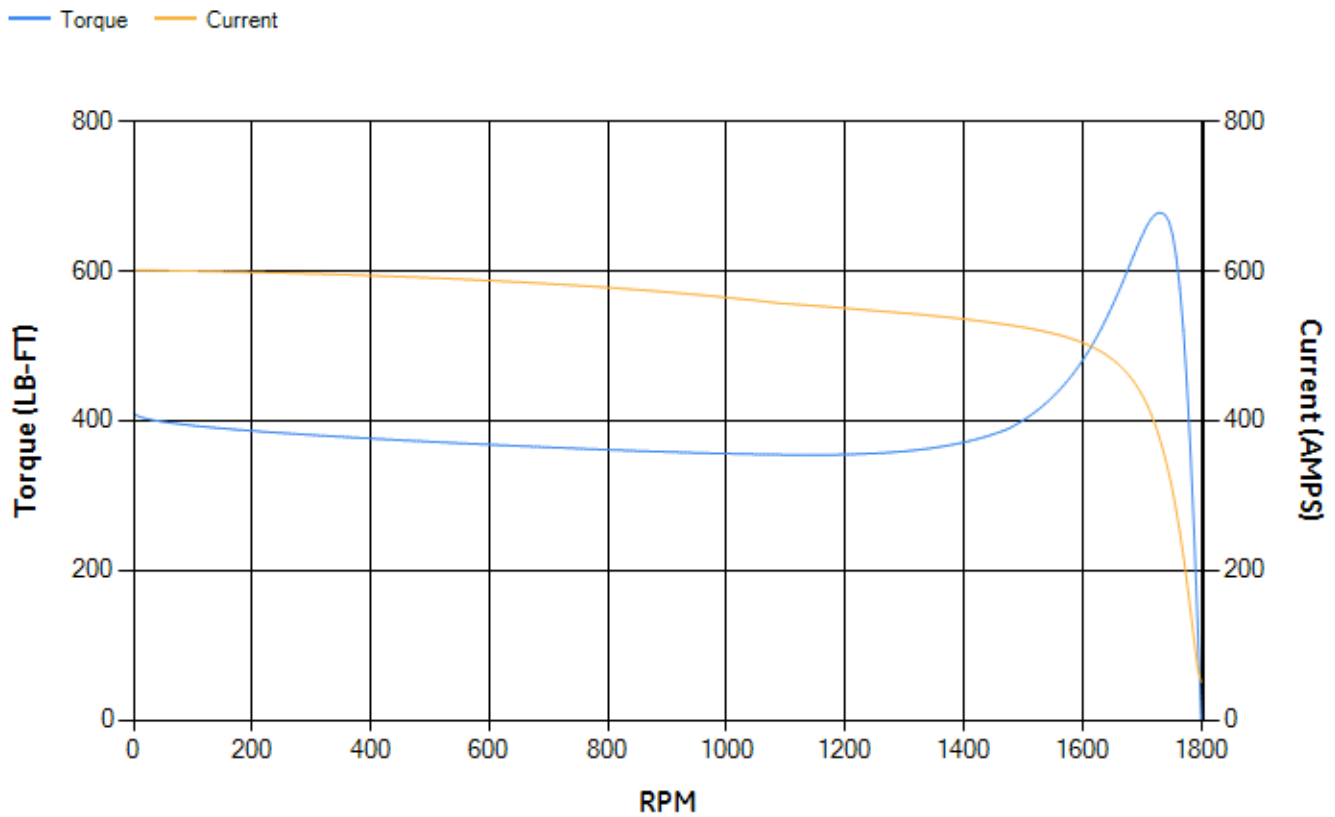
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	95.03	95.23	95.67	95.61	95.17	92.64	0.00
% PF	82.3	81.83	80.54	76	65.78	43.45	3.15
AMPS	149.58	138.11	121.48	96.6	74.75	58.13	50.63

TORQ(FL)#FT	294.18	TORQ(LR)%FL	139.57	TORQ(BD)%FL	230.2
AMPS(LR)	601.12	PF AT START	0.28		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 2492 Lb-Ft Sq (104.91 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 49 seconds. Safe stall time at 100% voltage is 105 seconds cold, 59 seconds hot. Rotor inertia is 21.75 Lb-Ft Sq (0.92 Kg-meter Sq).

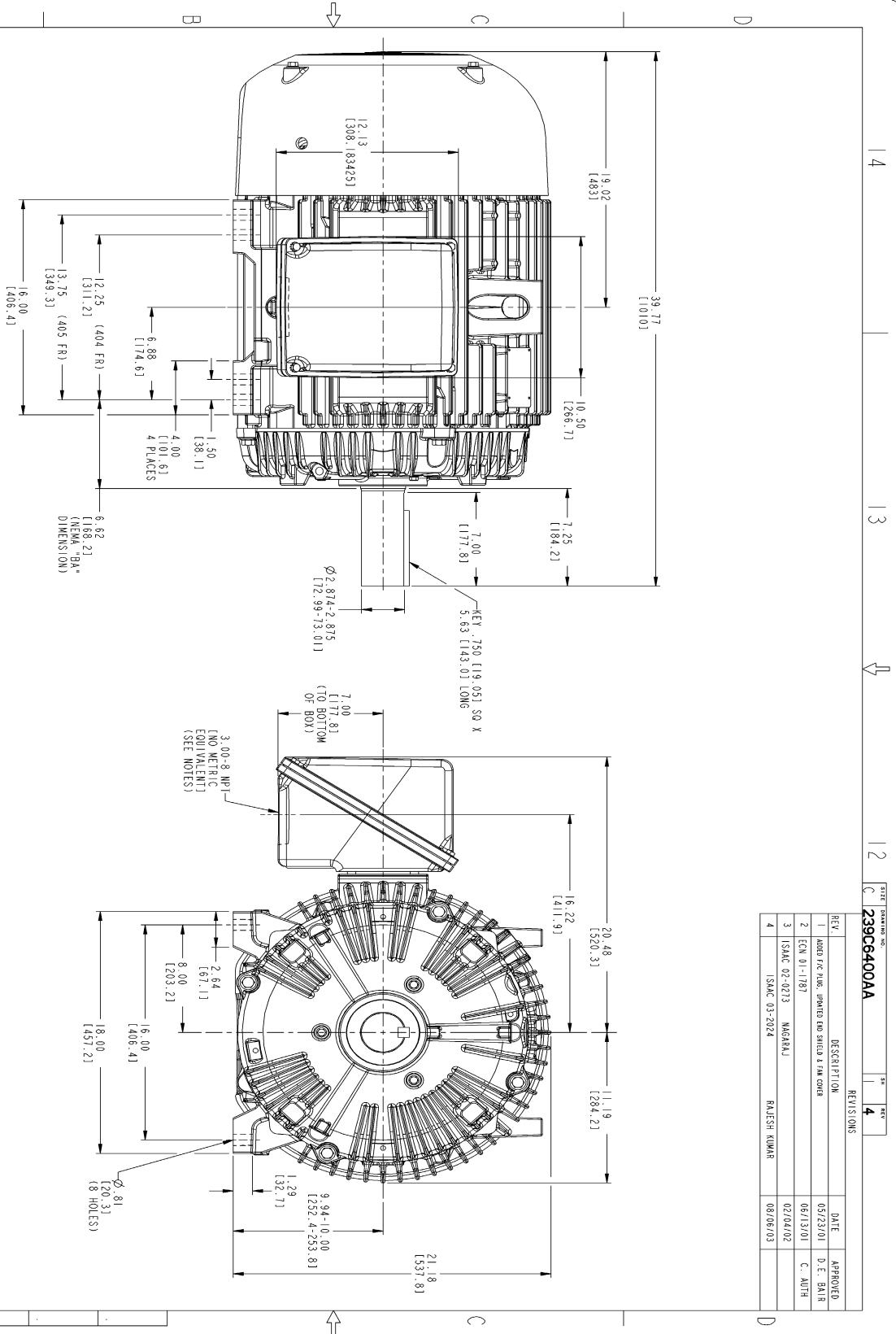
Open Circuit A-C:	0.708	Short Circuit D-C:	0.034
Short Circuit A-C:	0.051	X/R Ratio:	12.873
Stator Slots:	72	Rotor Slots:	58

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	ADD FOR RING, IMPACT END SHIELD & FAN COVER	05/23/01	D. E. BAIR
2	ECN 01-1181	06/13/01	C. ALTH
3	ISMAC 02-0273 MARGRAJ	02/04/02	
4	ISMAC 03-2024 RAJESH KUMAR	08/06/03	

SIGNATURES	DATE	GENERAL ELECTRIC COMPANY Fort Wayne, Indiana
DAVE J. K. JUREN	03/29/00	<p>OUTLINE</p> <p>404/405T TEFC</p> <p>700 CU. IN. CONDUIT BOX</p> <p>239C6400AA</p>
W. ELLISWORTH	05/11/00	
DAVE D. STARR	05/11/00	
APPLIED PRACTICES		
SCALE: 0.220 REF. NO.:		
SHEET 1 OF 1		
DISTRIBUTION: MMP		

Marks:

Connection Diagram
GEM2034E-FIG7



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	115E4304AA1	115E4304LK1
Bearing	235A2526AA01	235A2618AA04
Slinger/Inproseal	149C4399G06	149C4399G06

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	159C7100AA2
Fan Cover	128D6832AA1

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

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	