

Product Information Packet

November 8, 2016

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

Model Number:	5KS324SAA404D7
Catalog Number:	M8950
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG7
Outline Drawing:	239C6000AE

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:	5KS324SAA404D7	Estimated Weight:	620 Lbs
Outline Drawing:	239C6000AE	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG7	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	X\$D
Design Code:	32BD4036B	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	65
Frame:	324T	Insulation Class:	H
Phases:	3	NEMA Design:	B
Poles:	8	Nominal Efficiency:	90.2 %
Output Power:	20HP 14.8KW	Guaranteed Efficiency:	89.5
RPM:	880	3/4 Load Efficiency:	90.8
Voltage:	575	KVA Code:	G
Hertz:	60	Max KVAR:	12.3
Amps - FL:	24.6	Power Factor:	67.5
Service Factor:	1.25	Bearing - DE:	6312ZC3
Alt Service Factor:	1.00	Bearing - ODE:	6312ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

SF AMPS 29.6
 STAMP NP249A5564P051 AS BELOW:
 MODEL:5KS324SAA404D7 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 4-60 HZ, CHP 60-90 HZ.

Additional Information:

8P - T EXTN
 346 CU IN - 3.00" NPT
 OIL RESISTANT SLEEVING ON LEADS
 F1 MOUNTING

Performance Characteristics

1st Winding 1st Connection

Design: 32BD4036B

Marks:

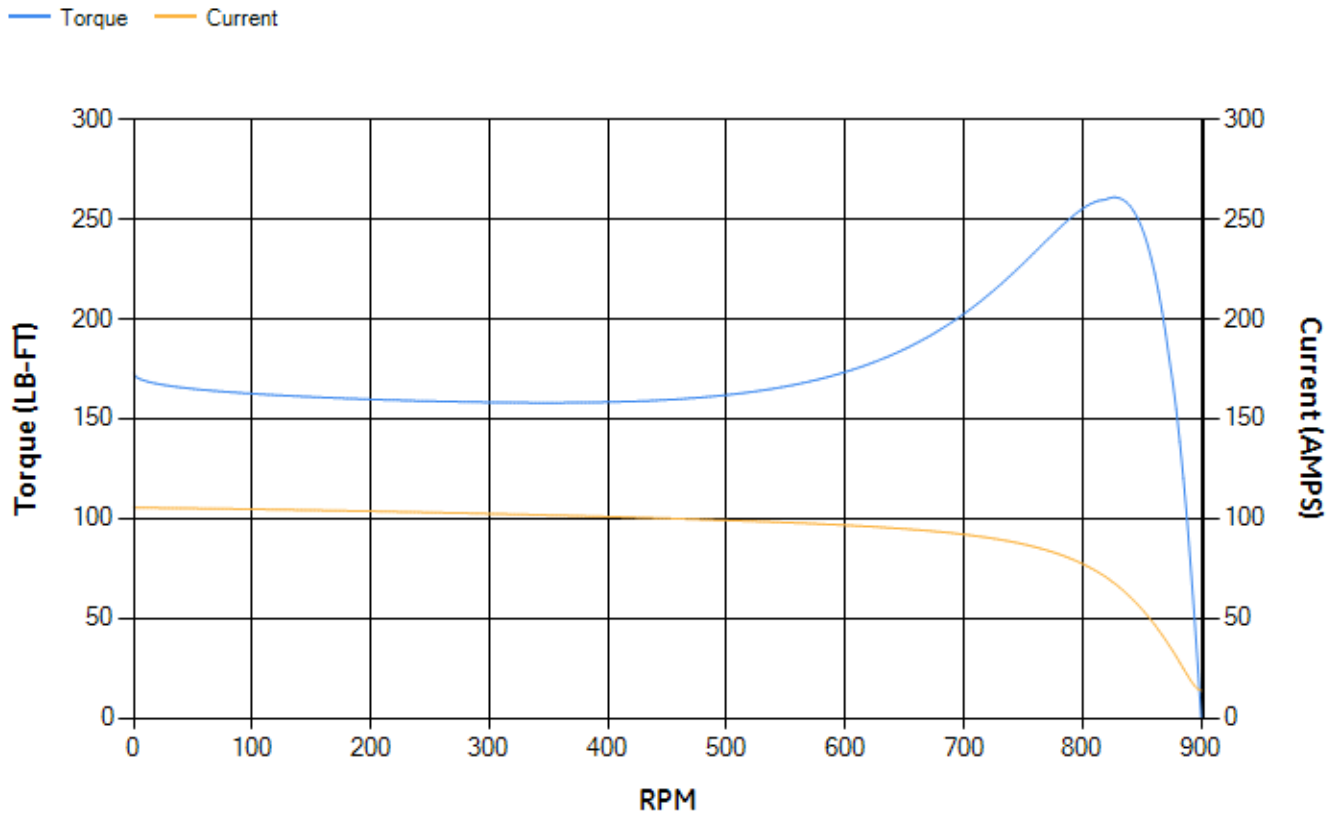
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	89.04	89.63	90.49	90.8	90.03	85.23	0.00
% PF	71.02	70.05	67.73	60.95	48.94	29.8	3.86
AMPS	29.6	27.43	24.41	20.3	16.99	14.74	13.71

TORQ(FL)#FT	119.38	TORQ(LR)%FL	144.63	TORQ(BD)%FL	216.72
AMPS(LR)	105.4	PF AT START	0.35		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 3417 Lb-Ft Sq (143.86 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 71 seconds. Safe stall time at 100% voltage is 149 seconds cold, 85 seconds hot. Rotor inertia is 7.25 Lb-Ft Sq (0.31 Kg-meter Sq).

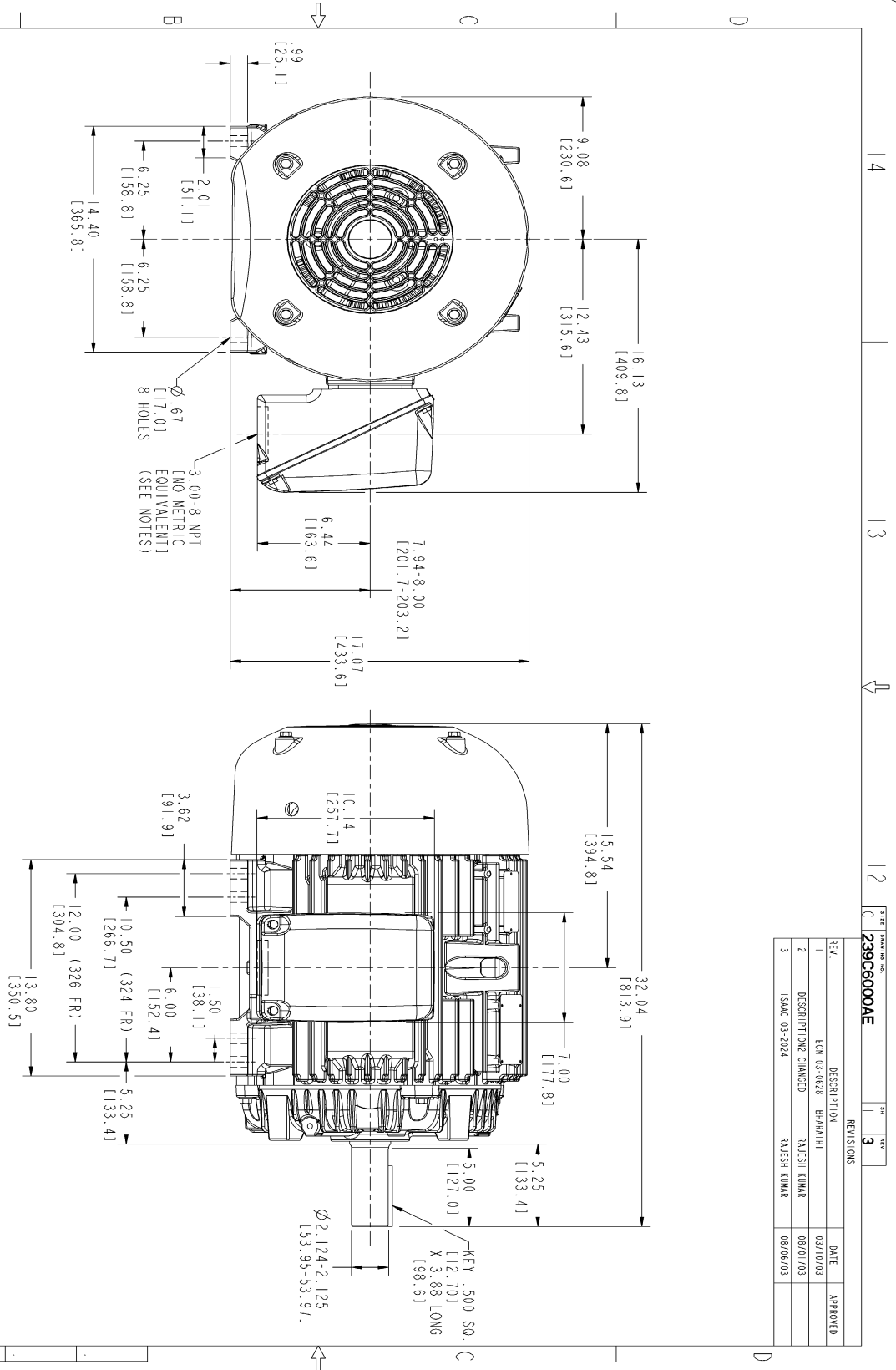
Open Circuit A-C:	0.188	Short Circuit D-C:	0.016
Short Circuit A-C:	0.02	X/R Ratio:	6.152
Stator Slots:	54	Rotor Slots:	40

Speed Torque Current Curve (First Connection, First Speed)



NAME: 103016807 OBJECT: 239C6000AE DATE: 07-Aug-03 23:25:11

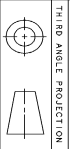
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NOTES :

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

REV.	DESCRIPTION	DATE	APPROVED
1	ECN 03-0628 BHARATHI	03/10/03	
2	DESCRIPTION CHANGED	08/01/03	
3	ISSAC 03-2024	08/06/03	



SIGNATURES	DATE	GENERAL ELECTRIC COMPANY
DESIGNER: WABRKL	03/13/02	 OUTLINE 324/326 TERC 346 CU. IN. CONDUIT BOX 239C6000AE
DRAWN: MANIYANAN	03/13/02	
CHECKED: WABRKL	03/13/02	
APPLIED PRACTICES:		
SCALE: 0.250	REF. NO.:	
SHEET NO. 1	REV. 3	
DISTRIBUTION: MMP		

Marks:

Connection Diagram
GEM2034E-FIG7



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	115E4200AA1	115E4200LA1
Bearing	235A2609AA01	235A2609AA01
Slinger/Inproseal	149C4399G04	149C4399G04

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	159C7000G01
Fan Cover	128D6800AA1

Conduit & Accessories Box Assembly	
Part Description	Part#
Conduit Box	149C4429AA2

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	