

Product Information Packet

November 9, 2016

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

Model Number:	5KFS131XAA107
Catalog Number:	N428
Instruction Manual:	GEI-M1036
Connection Diagram:	GEM2034E-FIG116
Outline Drawing:	240C1250AA

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:	5KFS131XAA107	Estimated Weight:	91 Kg
Outline Drawing:	240C1250AA	Duty:	S1
Connection Diagram:	GEM2034E-FIG116	Enclosure:	TEFC
Connection:	DELTA	Encl Construction:	841
Instruction Book:	GEI-M1036	Cooling(IC):	411
Design Code:	21RD0002H	Protection (IP):	55
Type:	KFS	Ambient Max (°C):	40
Frame:	132S	Alt Ambient Max (°C):	--
Mounting(IM):	B3	Ambient Min (°C):	-40
Phases:	3	Insulation Class:	H
Poles:	2	IEC Design:	N
Output Power:	5.5 KW	Nominal Efficiency:	IE3-89.4 %
RPM:	2930	Guaranteed Efficiency:	87.8
Voltage:	400	Max KVAR:	1.8
Hertz:	50	Power Factor:	89.5
Amps - FL:	9.9	Bearing - DE:	6208ZC3
Service Factor:	1.00	Bearing - ODE:	6208ZC3
Alt Service Factor:	--	Vibration:	1.4 mm/s

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

DE BRG 40BC02XP3 ODE BRG 40BC02XP3
 STAMP ON NP249A5499AH AS FOLLOWS:
 EX NA IIC T3 GC IECEX CSA.09.0012
 -40 DEG C <= TAMB <= +40 DEG C SIRA 11ATEX4118
 MODEL: 5KFS131XAA107 S/N:
 CLASS I, ZONE 2, AEX NA IIC T3

Additional Information:

2P - 38MM DIA X 80MM LONG EXTN - WYE START DELTA RUN
 FOOT MOUNTED; TOP MOUNTED CONDUIT BOX
 55 CONDUIT BOX - GLAND PLATE (2) M32X1.5 - M6 TERM BLOCK
 CONDUIT BOX ASSEMBLY WITH CABLE ENTRY TOWARDS RIGHT SIDE
 WHEN VIEWED FROM DRIVE END
 SPL PAINTED SURFACES: FRAME ID, SHAFT, INSIDE OF
 FAN COVER, AND ODE/SHLD TO PREVENT CORROSION
 ROUTINE AND 5 POINT VIBRATION TESTS INCL IN C/BOX
 GROUND SCREWS ON FRAME
 SHAFT RUNOUT LIMIT .025 MM TIR
 OIL RESISTANT SLEEVING ON LEADS

Performance Characteristics

1st Winding 1st Connection

Design: 21RD0002H

Marks:

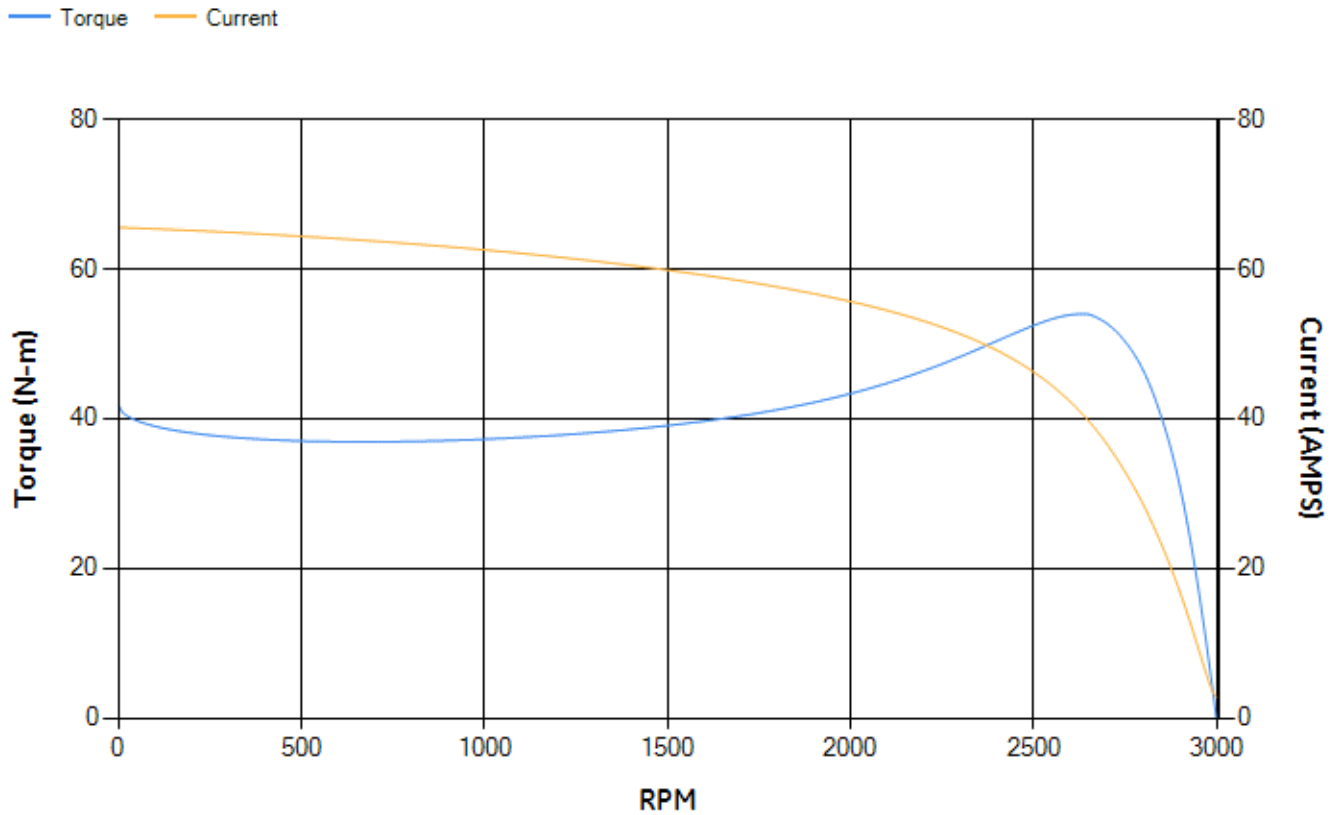
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	88.67	89.33	90.38	91.14	91.12	87.83	0.00
% PF	90.29	90.17	89.63	87.2	80.57	61.09	7.97
AMPS	12.39	11.33	9.79	7.49	5.41	3.7	2.81

TORQ(FL)N-m	17.91	TORQ(LR)%FL	233.85	TORQ(BD)%FL	299.02
AMPS(LR)	65.56	PF AT START	0.42		

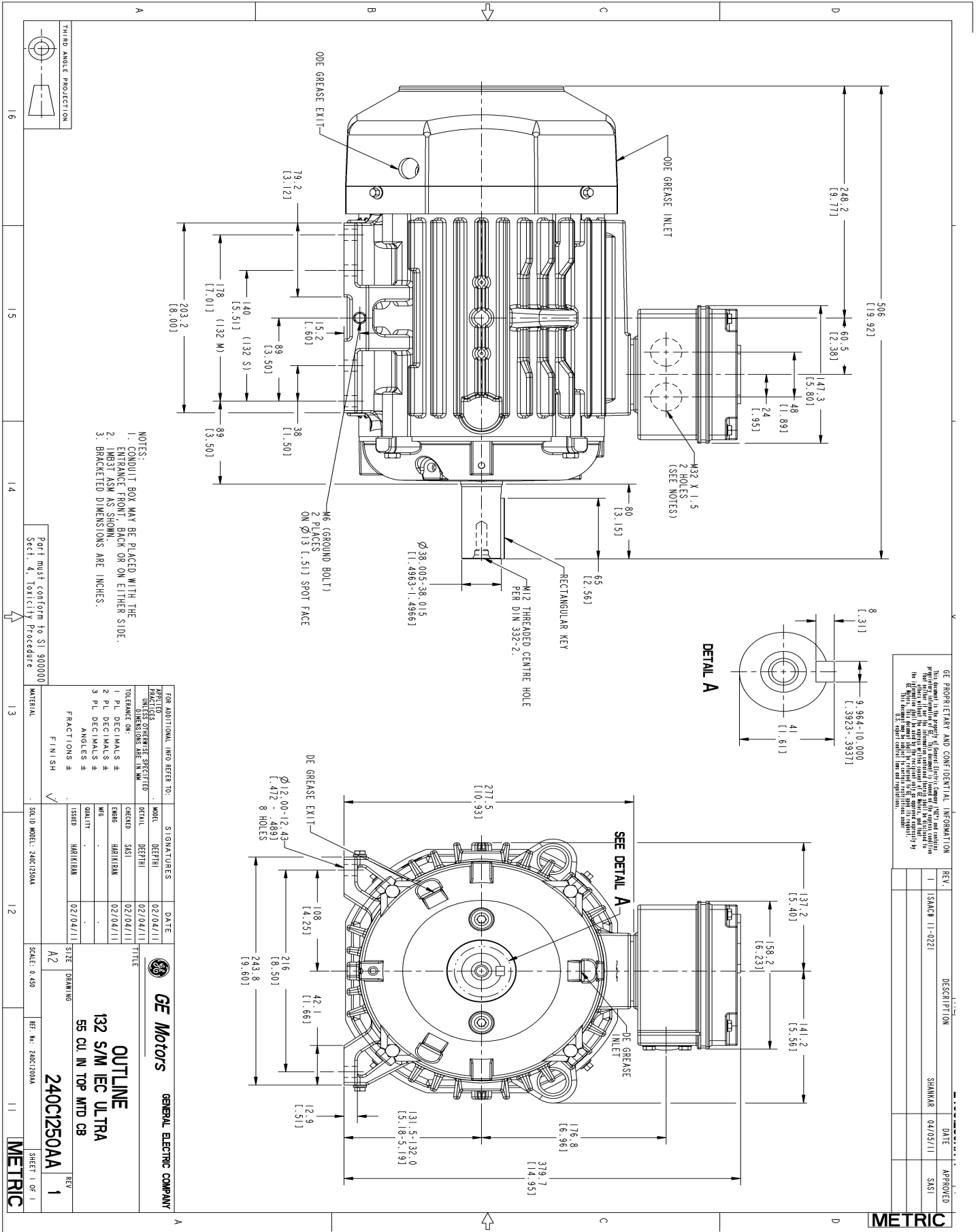
This motor is capable of two cold or one hot start with a maximum connected load inertia of 5.09 Kg-meter Sq at 100% voltage, where the load torque varies with the square of the speed. Acceleration time with maximum inertia and the above load type is 45 seconds. Safe stall time at 100% voltage is 77 seconds cold, 54 seconds hot. Rotor inertia is 0.02 Kg-meter Sq.

Open Circuit A-C:	0.499	Short Circuit D-C:	0.011
Short Circuit A-C:	0.018	X/R Ratio:	3.355
Stator Slots:	36	Rotor Slots:	26

Speed Torque Current Curve (First Connection, First Speed)



Marks:



- NOTES:
1. CONDUIT BOX MAY BE PLACED WITH THE ENTRANCE FRONT, BACK OR ON EITHER SIDE.
 2. IMB3T ASM AS SHOWN.
 3. BRACKETED DIMENSIONS ARE INCHES.

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REV.	DESCRIPTION	DATE	APPROVED
1	ISAC# 11-0221	SHANKAR 04/05/11	SMSI

FOR ADDITIONAL INFO REFER TO:	SIGNATURES	DATE
MODEL	DEPTH	02/04/11
DETAIL	DEPTH	02/04/11
CHECKED	SMSI	02/04/11
EMBR	HARIBHAN	02/04/11
MS	HARIBHAN	02/04/11
ISSUED	HARIBHAN	02/04/11

GE Motors GENERAL ELECTRIC COMPANY

OUTLINE
 132 5/8 IEC ULTRA
 55 CU IN TOP MTD CB

240C1250AA

Part must conform to SI 9000000
 Sect. 4, Toxicity Procedure

SCALE: 0.450
 SHEET 1 OF 1
METRIC

Marks:

Connection Diagram
GEM2034E-FIG116

