GE
Power Conversion

Product Information Packet

November 9, 2016

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

Model Number:	**5KFS111XAA227**
Catalog Number:	**N417**
Instruction Manual:	GEI-M1036
Connection Diagram:	GEM2034E-FIG116
Outline Drawing:	240C1150AA

Accessory Connection Diagrams

Bearing Thermocouple:	None	**Heater:**	None
RTD:	None	**Thermistor:**	None
Thermostat:	None	**Winding Thermocouple:**	None
Bearing RTD:	None		

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imagination at work

Marks:

MODEL NUMBER:	**5KFS111XAA227**	**Estimated Weight:**	35 Kg
Outline Drawing:	240C1150AA	**Duty:**	S1
Connection Diagram:	GEM2034E-FIG116	**Enclosure:**	TEFC
Connection:	DELTA	**Encl Construction:**	841
Instruction Book:	GEI-M1036	**Cooling(IC):**	411
Design Code:	18RD1003H	**Protection (IP):**	55
Type:	KFS	**Ambient Max (°C):**	40
Frame:	112S	**Alt Ambient Max (°C):**	--
Mounting(IM):	B3	**Ambient Min (°C):**	-40
Phases:	3	**Insulation Class:**	H
Poles:	4	**IEC Design:**	N
Output Power:	3.7 KW	**Nominal Efficiency:**	IE3-89.2 %
RPM:	1455	**Guaranteed Efficiency:**	87.6
Voltage:	400	**Max KVAR:**	2.1
Hertz:	50	**Power Factor:**	79.0
Amps - FL:	7.6	**Bearing - DE:**	6206ZC3
Service Factor:	1.00	**Bearing - ODE:**	6206ZC3
Alt Service Factor:	--	**Vibration:**	1.4 mm/s

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:
DE BRG 30BC02XP3 ODE BRG 30BC02XP3
STAMP ON NP249A5499AH AS FOLLOWS:
EX NA IIC T3 GC IECEX CSA.09.0012
-40 DEG C <= TAMB <= +40 DEG C SIRA 11ATEX4118
MODEL: 5KFS111XAA227 S/N:
CLASS I, ZONE 2, AEX NA IIC T3

Additional Information:

4P - 28MM DIA X 60MM LONG EXTN - WYE START DELTA RUN
FOOT MOUNTED; TOP MOUNTED CONDUIT BOX
55 CONDUIT BOX - GLAND PLATE (2) M32X1.5 - M6 TERM BLOCK
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: 18RD1003H**

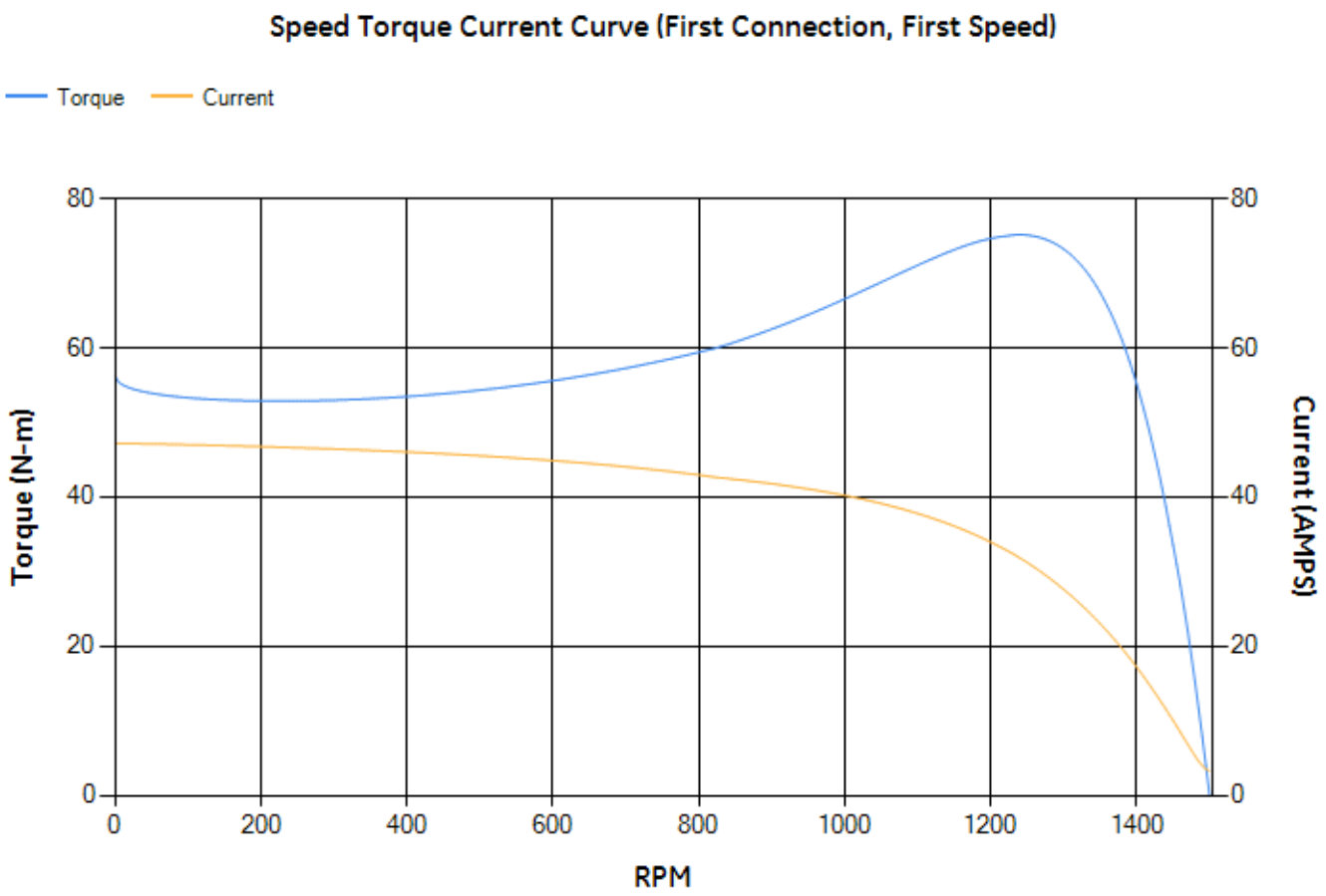
Marks:

LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	87.31	88.07	89.24	90.09	89.98	86.14	0.00
% PF	81.57	80.83	80.46	73.44	62.05	40.11	5.29
AMPS	9.37	8.63	7.44	6.05	4.78	3.86	3.29

TORQ(FL)N-m	24.26	**TORQ(LR)%FL**	231.69	**TORQ(BD)%FL**	306.57
AMPS(LR)	47.21	**PF AT START**	0.54		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 10.23 Kg-meter Sqat 100% voltage, where the load torque varies with the square of the speed. Acceleration time with maximum inertia and the above load type is 31 seconds. Safe stall time at 100% voltage is 71 seconds cold, 44 seconds hot. Rotor inertia is 0.02 Kg-meter Sq.

Open Circuit A-C:	0.235	**Short Circuit D-C:**	0.009
Short Circuit A-C:	0.012	**X/R Ratio:**	2.747
Stator Slots:	36	**Rotor Slots:**	28

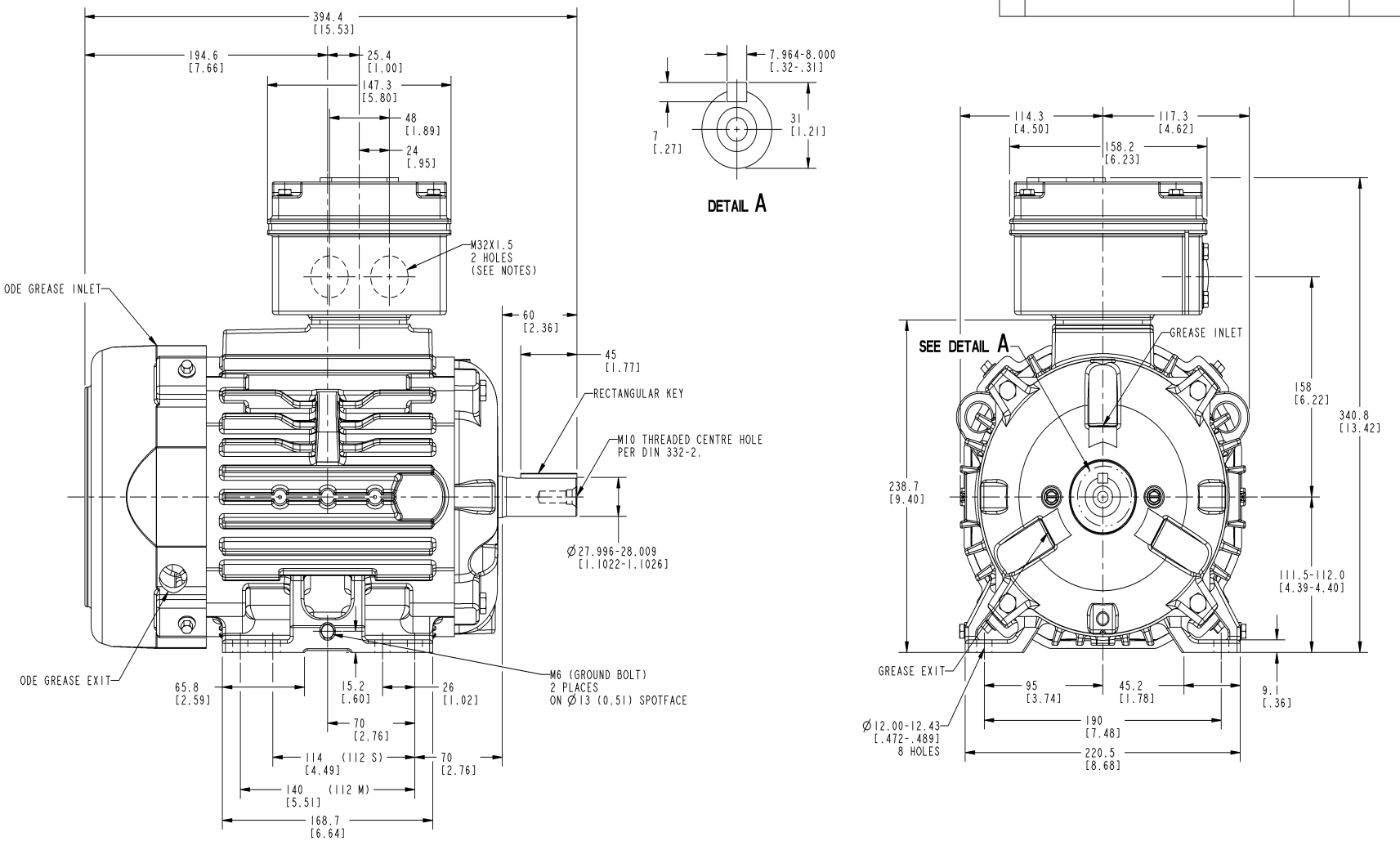


Marks:

Model Number:5KFS111XAA227 November 9, 2016

REV.	DESCRIPTION		DATE	APPROVED
1	ISAAC# 11-0221	SHANKAR	04/05/11	SASI

METRIC



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.

THIRD ANGLE PROJECTION

Part must conform to SI 900000 Sect. 4, Toxicity Procedure

FOR ADDITIONAL INFO REFER TO:	SIGNATURES		DATE
APPLIED PRACTICES	MODEL	DEEPTHI	02/03/11
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MM	DETAIL	DEEPTHI	02/03/11
TOLERANCE ON:	CHECKED	SASI	02/03/11
1 PL DECIMALS ±	ENGRG	HARIKIRAN	02/03/11
2 PL DECIMALS ±	MFG	.	.
3 PL DECIMALS ±	QUALITY	.	.
ANGLES ±	ISSUED	HARIKIRAN	02/03/11
FRACTIONS ±			
FINISH √			
MATERIAL	SOLID MODEL: 240C1150AA		

GE Motors GENERAL ELECTRIC COMPANY

TITLE

OUTLINE
112 S/M IEC ULTRA
55 CU. IN. TOP MTD CB

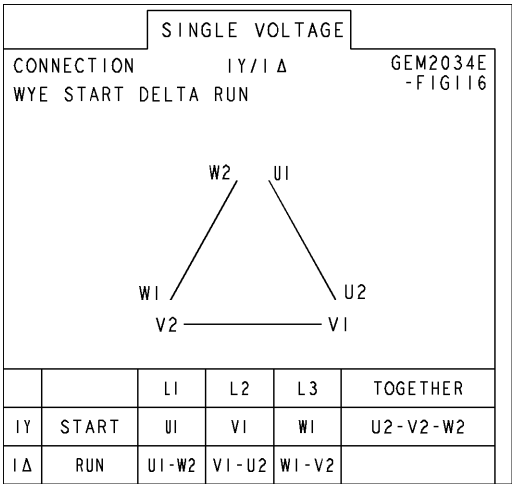
SIZE	DRAWING	REV
A2	240C1150AA	1

SCALE: 0.500 | REF. No: 240C1100AA | SHEET 1 OF 1

METRIC

Connection Diagram

GEM2034E-FIG116



		L1	L2	L3	TOGETHER
1Y	START	U1	V1	W1	U2-V2-W2
1Δ	RUN	U1-W2	V1-U2	W1-V2	