GE
Power Conversion

Product Information Packet

January 12, 2017

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

Model Number:	**5KFS162XAA207B**
Catalog Number:	**N433**
Instruction Manual:	GEI-M1036
Connection Diagram:	GEM2034E-FIG116
Outline Drawing:	240C1350AA

Accessory Connection Diagrams

Bearing Thermocouple:	None	**Heater:**	None
RTD:	None	**Thermistor:**	235A3027VD
Thermostat:	None	**Winding Thermocouple:**	None
Bearing RTD:	None		

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imagination at work

Marks:

MODEL NUMBER:	**5KFS162XAA207B**	**Estimated Weight:**	143 Kg
Outline Drawing:	240C1350AA	**Duty:**	S1
Connection Diagram:	GEM2034E-FIG116	**Enclosure:**	TEFC
Connection:	DELTA	**Encl Construction:**	841
Instruction Book:	GEI-M1036	**Cooling(IC):**	411
Design Code:	25RD1029H	**Protection (IP):**	55
Type:	KFS	**Ambient Max (°C):**	40
Frame:	160M	**Alt Ambient Max (°C):**	--
Mounting(IM):	B3T	**Ambient Min (°C):**	-40
Phases:	3	**Insulation Class:**	H
Poles:	4	**IEC Design:**	N
Output Power:	11 KW	**Nominal Efficiency:**	IE3-91.7 %
RPM:	1480	**Guaranteed Efficiency:**	90.5
Voltage:	400	**Max KVAR:**	6.9
Hertz:	50	**Power Factor:**	78.5
Amps - FL:	22.1	**Bearing - DE:**	6309ZC3
Service Factor:	1.00	**Bearing - ODE:**	6309ZC3
Alt Service Factor:	--	**Vibration:**	1.4 mm/s

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:
DE BRG 45BC03XP3 ODE BRG 45BC03XP3
OVER TEMP PROT 1
STAMP ON NP249A5499AH AS FOLLOWS:
MODEL: 5KFS162XAA207B S/N: XXX
EX NA IIC T3 GC SIRA 11ATEX4118
CLASS I, ZONE 2, AEX NA IIC T3 IECEX CSA.09.0012
-40 DEG C <= TAMB <= +40 DEG C

Additional Information:

4P - 42MM DIA X 110MM LONG EXTN - WYE START DELTA RUN
FOOT MOUNTED
137 CONDUIT BOX - GLAND PLATE (2) M40X1.5 - M6 TERM BLOCK CO
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 .038 MM TIR
170 DEG C THERMISTOR LDS TO AUX T/B IN MAIN C/BOX
OIL RESISTANT SLEEVING ON LEADS
CONDUIT BOX IS ON TOP

Performance Characteristics 1st Winding 1st Connection **Design: 25RD1029H**

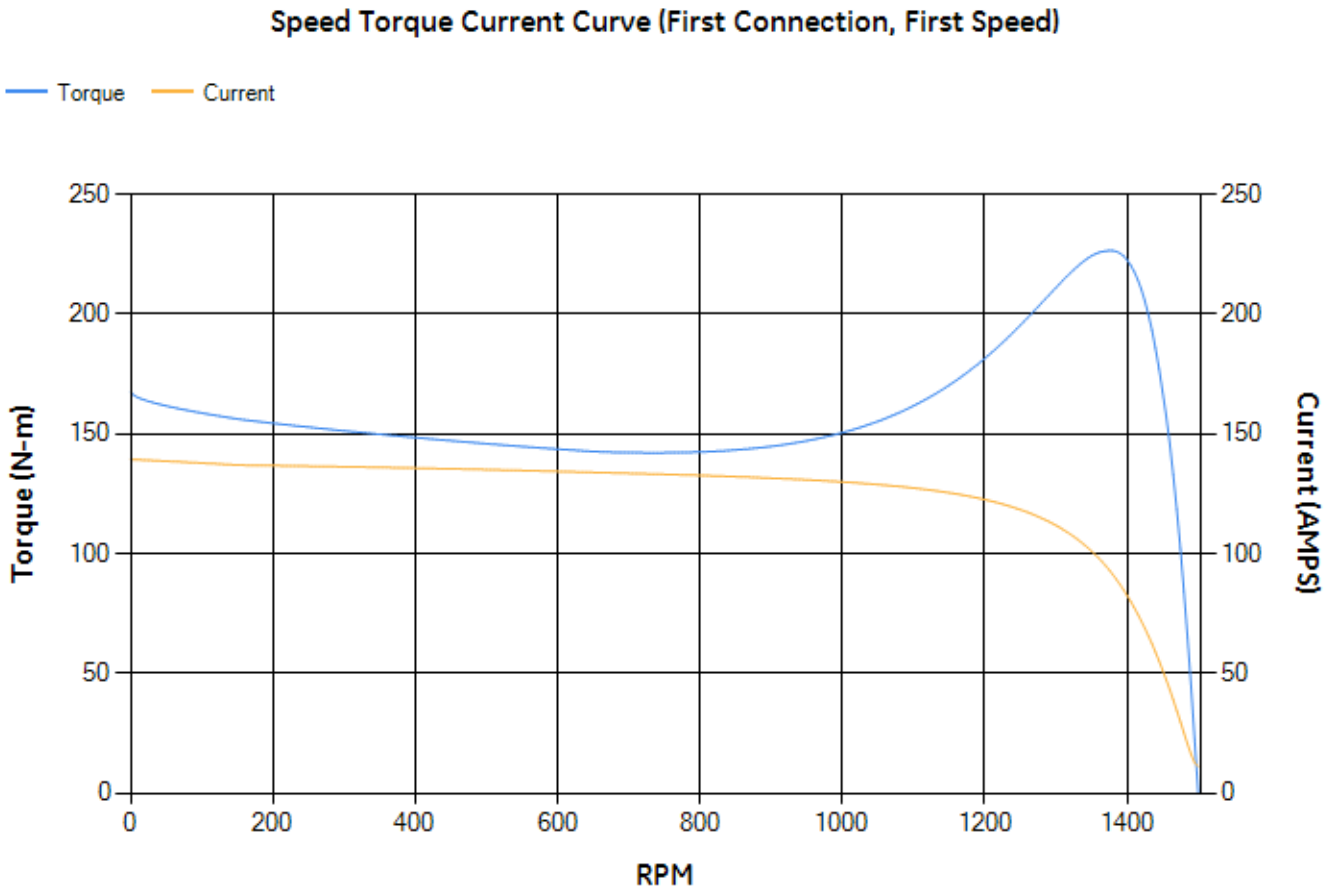
Marks:

LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	92.06	92.37	92.95	93.02	92.41	88.65	0.00
% PF	82.02	80.85	78.42	71.69	59.2	36.98	3.87
AMPS	26.28	24.45	21.78	17.86	14.51	12.11	11.07

TORQ(FL)N-m	70.99	**TORQ(LR)%FL**	236.25	**TORQ(BD)%FL**	317.85
AMPS(LR)	139.32	**PF AT START**	0.47		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 32.29 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 37 seconds. Safe stall time at 100% voltage is 82 seconds cold, 54 seconds hot. Rotor inertia is 0.11 Kg-meter Sq.

Open Circuit A-C:	0.406	**Short Circuit D-C:**	0.014
Short Circuit A-C:	0.025	**X/R Ratio:**	4.325
Stator Slots:	48	**Rotor Slots:**	40



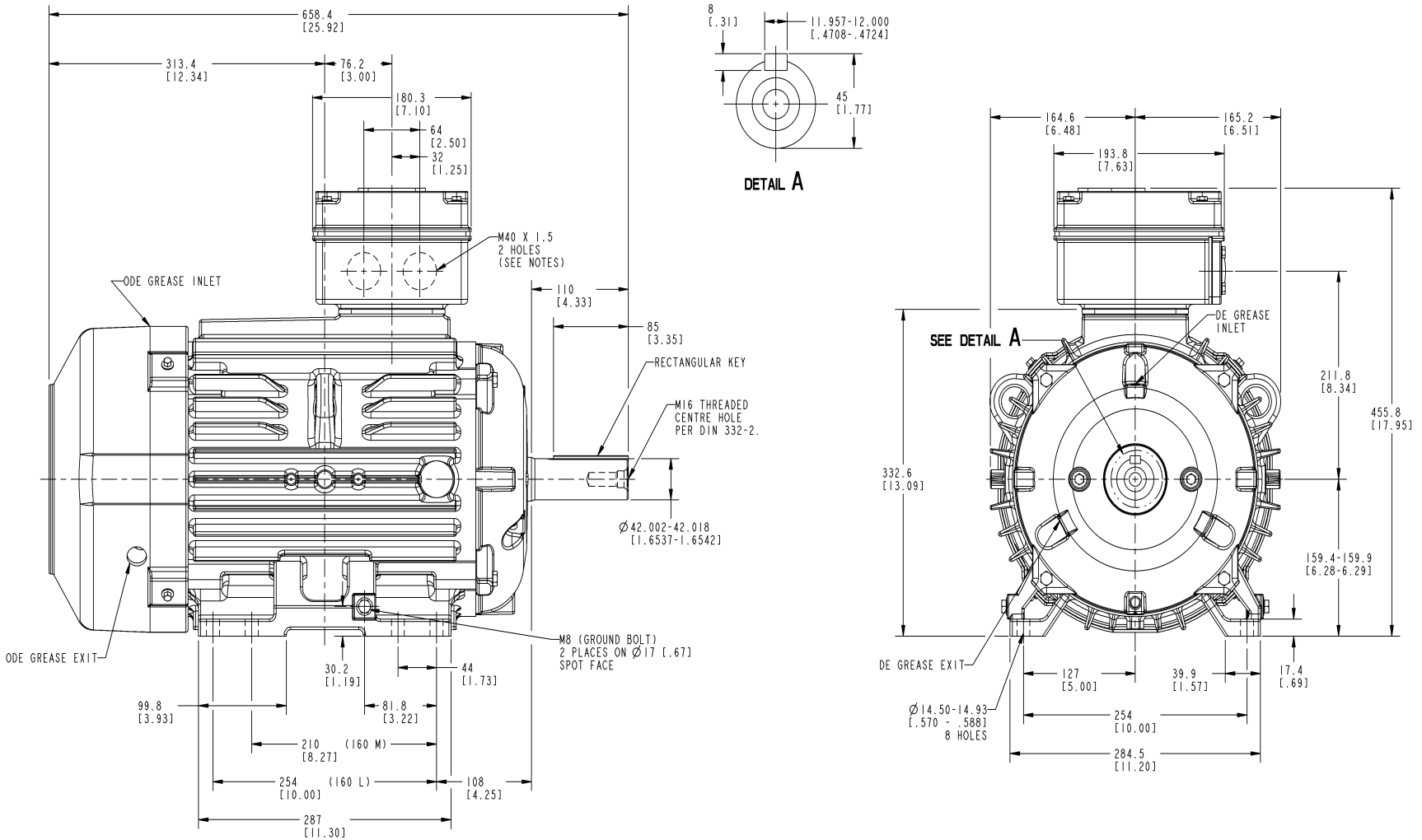
Marks:

Model Number:5KFS162XAA207B

January 12, 2017

REV.	DESCRIPTION		DATE	APPROVED
1	ISAAC# 11-0221	SHANKAR	04/06/11	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: 240C1350AA		

GE Motors — GENERAL ELECTRIC COMPANY

TITLE

OUTLINE
160 L/M IEC ULTRA
137 CU. IN TOP MTD CB

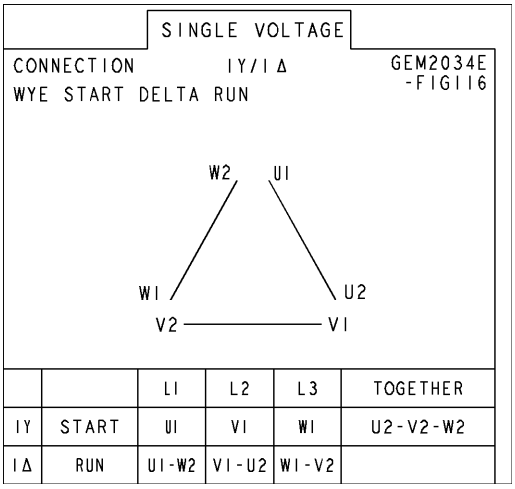
SIZE	DRAWING	REV
A2	240C1350AA	1

SCALE: 0.350 | REF. No: 240C1300AA | SHEET 1 OF 1

METRIC

Connection Diagram

GEM2034E-FIG116



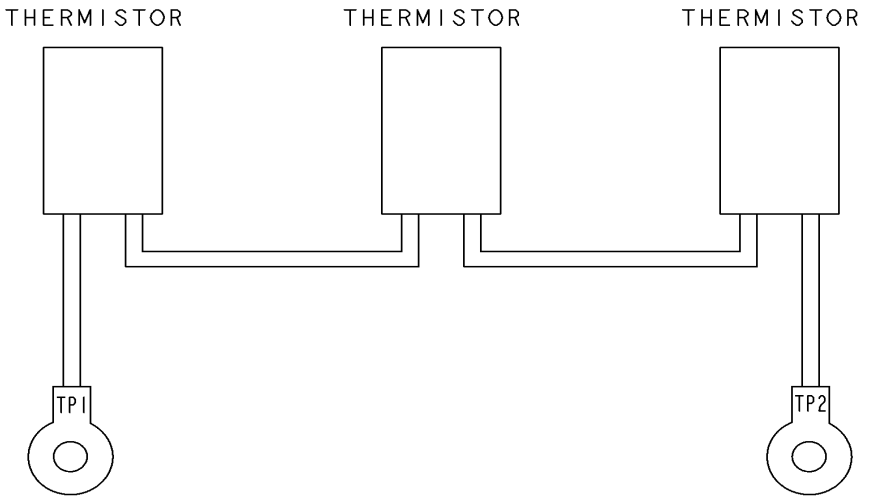
		L1	L2	L3	TOGETHER
1Y	START	U1	V1	W1	U2-V2-W2
1Δ	RUN	U1-W2	V1-U2	W1-V2	

NAME:501737095 OBJECT:235A3027VD DATE:10-Nov-09 18:07:55

REV 0 | SH 1 | DWG NO 235A3027VD | SIZE A

THIRD ANGLE PROJECTION

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



NOTE:

THREE THERMISTORS, ONE IN EACH PHASE, ARE CONNECTED IN SERIES.
TWO LEADS ARE BROUGHT OUT INTO THE MAIN TERMINAL BOX OR AUXILIARY TERMINAL BOX.
LEADS ARE MARKED WITH TP1 AND TP2.

UNLESS OTHERWISE SPECIFIED	SIGNATURES		DATE
DIMENSIONS ARE IN INCHES	DRAWN	ARPIT	11/10/09
TOLERANCES ON:	CHECKED	BHASKAR	11/10/09
2 PL DECIMALS ±	ENGRG		
3 PL DECIMALS ±	ISSUED	BHASKAR	11/10/09
ANGLES ± 1			
FRACTIONS ±			
MATERIAL:			
	CAD NO.	F500:235A3027VD	
APPLIED PRACTICES:			

GE Motors — Fort Wayne, Indiana

CONNECTION DIAGRAM

PTC THERMISTORS
SINGLE WINDING

SIZE	FSCM NO	DWG NO	DISTR TO
A		235A3027VD	
SCALE 1:1		SHEET 1 OF 1	