

Product Information Packet

January 12, 2017

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

Model Number:	5KFS192XAA207A
Catalog Number:	N439
Instruction Manual:	GEI-M1036
Connection Diagram:	GEM2034E-FIG116
Outline Drawing:	240C1450AA

Accessory Connection Diagrams			
Bearing Thermocouple:	None	Heater:	None
RTD:	None	Thermistor:	235A3027VD
Thermostat:	None	Winding Thermocouple:	None
Bearing RTD:	None		

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Marks:

MODEL NUMBER:	5KFS192XAA207A	Estimated Weight:	209 Kg
Outline Drawing:	240C1450AA	Duty:	S1
Connection Diagram:	GEM2034E-FIG116	Enclosure:	TEFC
Connection:	DELTA	Encl Construction:	841
Instruction Book:	GEI-M1036	Cooling(IC):	411
Design Code:	28RD1003H	Protection (IP):	55
Type:	KFS	Ambient Max (°C):	40
Frame:	180M	Alt Ambient Max (°C):	--
Mounting(IM):	B3T	Ambient Min (°C):	-40
Phases:	3	Insulation Class:	H
Poles:	4	IEC Design:	N
Output Power:	18.5 KW	Nominal Efficiency:	IE3-92.7 %
RPM:	1480	Guaranteed Efficiency:	91.6
Voltage:	400	Max KVAR:	9.1
Hertz:	50	Power Factor:	82.5
Amps - FL:	34.9	Bearing - DE:	6310ZC3
Service Factor:	1.00	Bearing - ODE:	6310ZC3
Alt Service Factor:	--	Vibration:	1.4 mm/s

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

DE BRG 50BC03XP3 ODE BRG 50BC03XP3
 OVER TEMP PROT 1
 STAMP ON NP249A5499AH AS FOLLOWS:
 EX NA IIC T3 GC IECEX CSA.09.0012
 -40 DEG C <= TAMB <= +40 DEG C SIRA 11ATEX4118
 MODEL: 5KFS192XAA207A S/N:
 CLASS I, ZONE 2, AEX NA IIC T3

Additional Information:

4P - 48MM DIA X 110MM LONG EXTN - WYE START DELTA RUN
 FOOT MOUNTED-HORIZONTAL-CONDUIT BOX TOP
 137 CONDUIT BOX - GLAND PLATE (2) M40X1.5 - 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 .038 MM TIR
 170 DEG C THERMISTOR LDS TO AUX T/B IN MAIN C/BOX
 OIL RESISTANT SLEEVING ON LEADS

Performance Characteristics

1st Winding 1st Connection

Design: 28RD1003H

Marks:

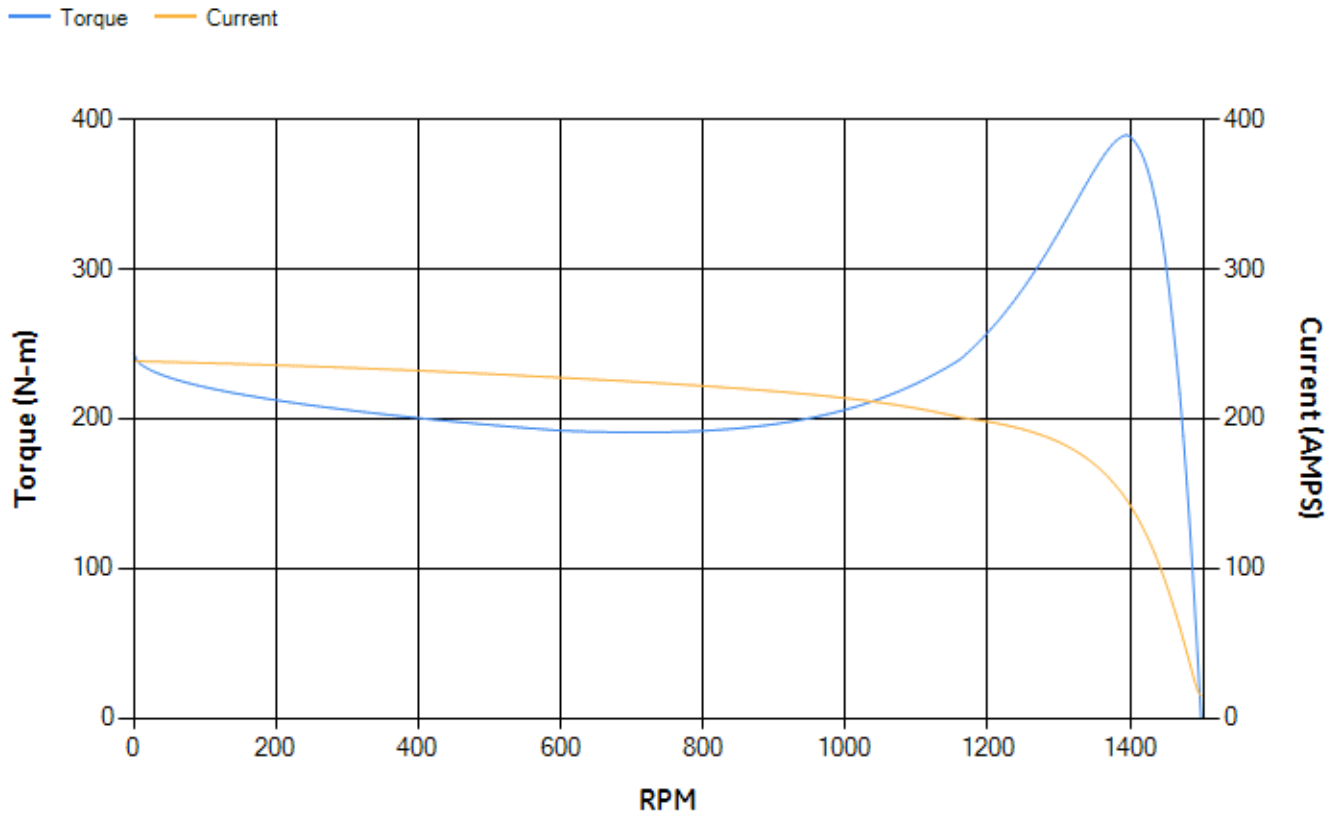
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	92.17	92.58	93.3	93.68	93.53	90.9	0.00
% PF	84.97	84.28	82.66	77.6	66.81	43.94	3.68
AMPS	42.62	39.36	34.6	27.55	21.37	16.71	14.63

TORQ(FL)N-m	119.34	TORQ(LR)%FL	204.34	TORQ(BD)%FL	325.12
AMPS(LR)	238.42	PF AT START	0.41		

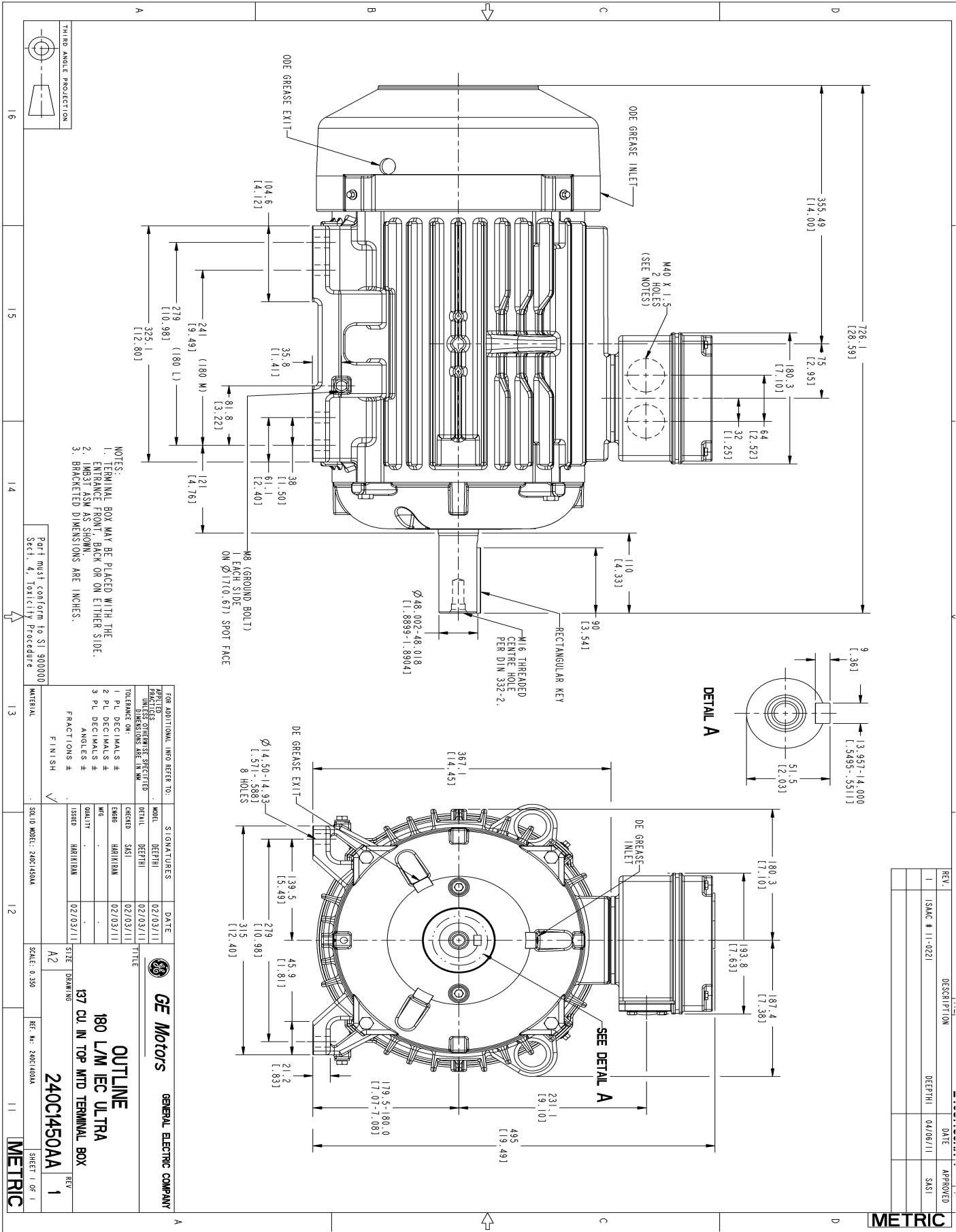
This motor is capable of two cold or one hot start with a maximum connected load inertia of 37.17 Kg-meter Sqat 100% voltage, where the load torque varies with the square of the speed. Acceleration time with maximum inertia and the above load type is 31 seconds. Safe stall time at 100% voltage is 80 seconds cold, 46 seconds hot. Rotor inertia is 0.21 Kg-meter Sq.

Open Circuit A-C:	0.53	Short Circuit D-C:	0.014
Short Circuit A-C:	0.026	X/R Ratio:	4.484
Stator Slots:	48	Rotor Slots:	40

Speed Torque Current Curve (First Connection, First Speed)



Marks:



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

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

FOR ADDITIONAL INFO REFER TO:	SIGNATURES	DATE
TERMINAL FACILITIES	MODEL	02/03/11
TOLERANCE ON:	DETAIL	02/03/11
1 PL DECIMALS ±	CHECKED	02/03/11
2 PL DECIMALS ±	DESIGNED	02/03/11
3 PL DECIMALS ±	ISSUED	02/03/11
FRACTIONS ±		
FINISH		

GE Motors GENERAL ELECTRIC COMPANY

OUTLINE

180 L/M IEC ULTRA

137 CU IN TOP MTD TERMINAL BOX

240C1450AA

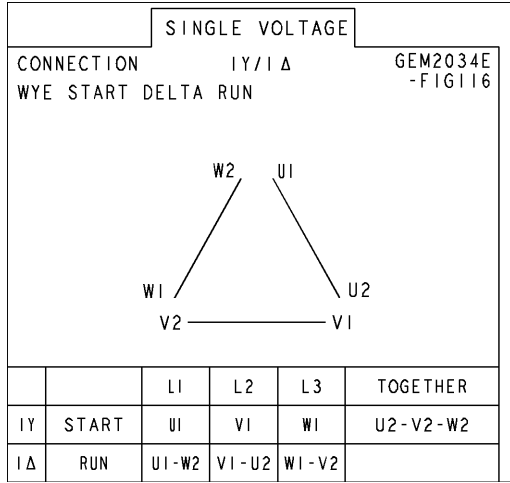
SCALE: 0.330 REF. No. 240C1450AA SHEET 1 OF 1

REV.	DESCRIPTION	DATE	APPROVED
1	ISAC # 11-0221	04/08/11	SASI

METRIC

Marks:

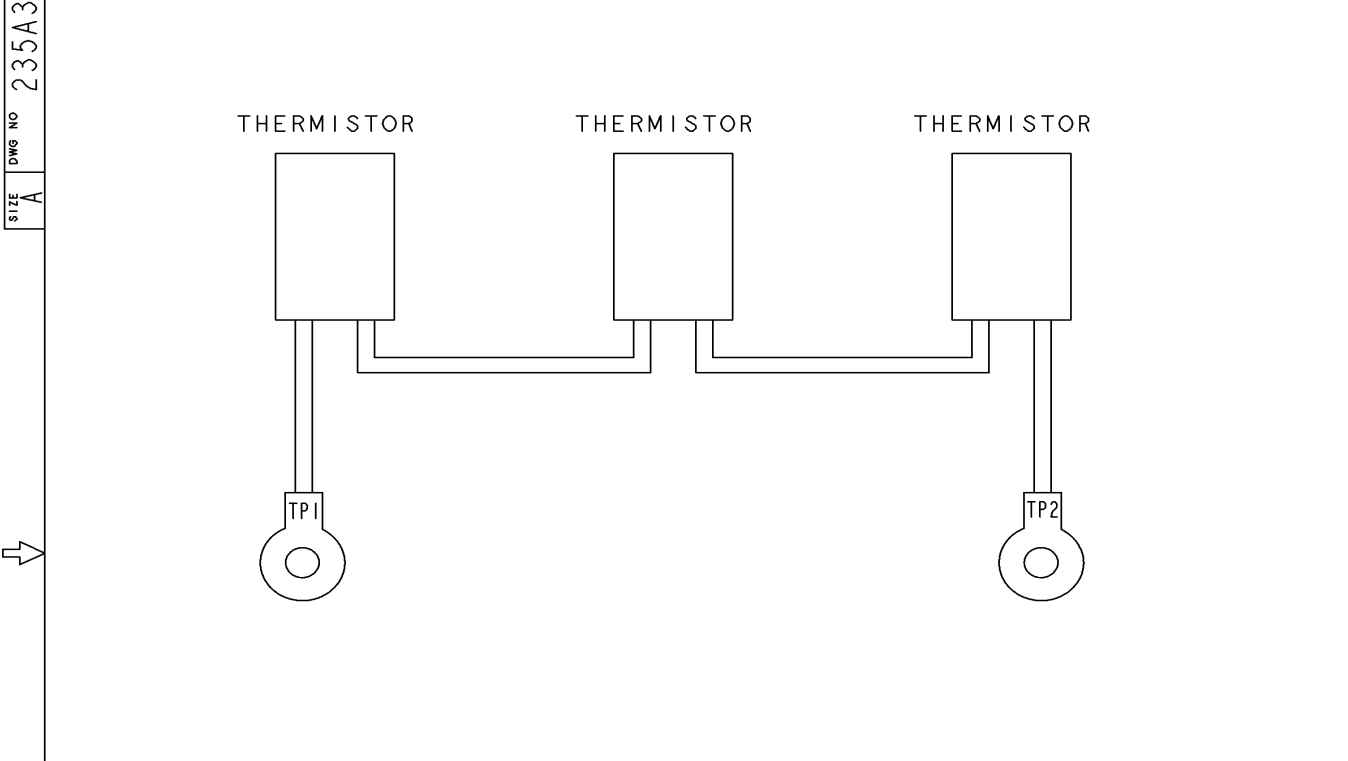
Connection Diagram
GEM2034E-FIG116





SH REV 0	THIRD ANGLE PROJECTION	REVISIONS			
		REV	DESCRIPTION	DATE	APPROVED

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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 DIMENSIONS ARE IN INCHES TOLERANCES ON: 2 PL DECIMALS ± 3 PL DECIMALS ± ANGLES ± 1 FRACTIONS ± MATERIAL: APPLIED PRACTICES:	SIGNATURES	DATE	GE Motors Fort Wayne, Indiana
	DRAWN ARPIT	11/10/09	
	CHECKED BHASKAR	11/10/09	
	ISSUED BHASKAR	11/10/09	
CAD NO. F500:235A3027VD			SIZE A
			FSCM NO
			DWG NO 235A3027VD
			SCALE 1:1
			SHEET 1 OF 1

