

Product Information Packet

January 12, 2017

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

Model Number:	5KFS292XAA408
Catalog Number:	N594
Instruction Manual:	GEI-M1036
Connection Diagram:	GEM2034E-FIG116
Outline Drawing:	240C1800AK

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:	5KFS292XAA408	Estimated Weight:	917 Kg
Outline Drawing:	240C1800AK	Duty:	S1
Connection Diagram:	GEM2034E-FIG116	Enclosure:	TEFC
Connection:	DELTA	Encl Construction:	841
Instruction Book:	GEI-M1036	Cooling(IC):	411
Design Code:	44RD4007A	Protection (IP):	55
Type:	KFS	Ambient Max (°C):	40
Frame:	280M	Alt Ambient Max (°C):	--
Mounting(IM):	B3T	Ambient Min (°C):	-40
Phases:	3	Insulation Class:	H
Poles:	8	IEC Design:	N
Output Power:	75 KW	Nominal Efficiency:	94.5 %
RPM:	890	Guaranteed Efficiency:	93.7
Voltage:	460	Max KVAR:	36.1
Hertz:	60	Power Factor:	79.5
Amps - FL:	127.0	Bearing - DE:	6318ZC3
Service Factor:	1.00	Bearing - ODE:	6318ZC3
Alt Service Factor:	--	Vibration:	1.4 mm/s

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

DE BRG 90BC03JP3, ODE BRG 90BC03JP3
 OVER TEMP PROT 2
 STAMP ON MAIN NP: MAXIMUM EXPOSED INTERNAL AND
 EXTERNAL SURFACE TEMPERATURES DO NOT EXCEED
 200C UNDER USUAL SERVICE CONDITIONS AT 1.0SF
 NOTE TO MFG: STAMP EFF - 93.6

Additional Information:

8P - 75 MM DIA X 140 MM LONG EXTN - WYE START DELTA RUN
 PAINTED FRAME ID & SHAFT
 FAN COVER INSIDE & ODE E/S OUTSIDE
 700 CONDUIT BOX - GLAND PLATE (2) M63X1.5 - M12 TERM BLOCK
 - AUX TERM BLOCK
 OIL RESISTANT SLEEVING ON LEADS
 .038 MM TIR SHAFT RUNOUT
 ROUTINE TEST REPORT AND 5 POINT VIBRATION TEST
 REPORT INCLUDED IN C/B
 TOP MOUNTED CONDUIT BOX
 GROUND SCREWS ON FRAME
 NOTE TO MFG: XXX OUT IE3 IN NP NP249A5563P012
 170 DEG C THERMISTOR LDS TO AUXILIARY TERMINAL
 BOARD IN MAIN CONDUIT BOX

Performance Characteristics

1st Winding 1st Connection

Design: 44RD4007A

Marks:

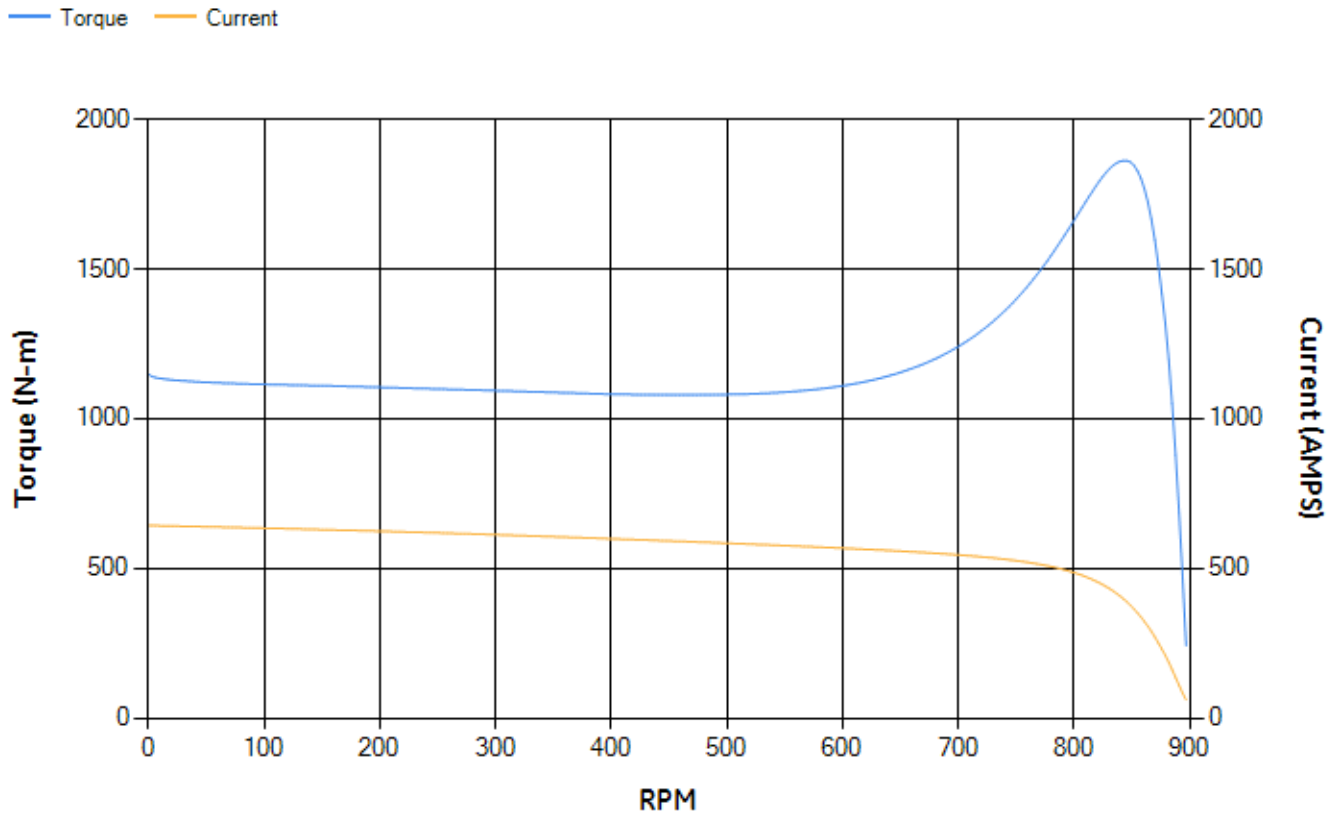
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	94.58	94.85	95.37	95.45	95.13	92.77	0.00
% PF	80.68	80.41	79.38	75.26	65.49	43.6	3.11
AMPS	154.2	141.94	124.34	98.29	75.55	58.19	50.15

TORQ(FL)N-m	805.52	TORQ(LR)%FL	142.52	TORQ(BD)%FL	230.73
AMPS(LR)	643.01	PF AT START	0.33		

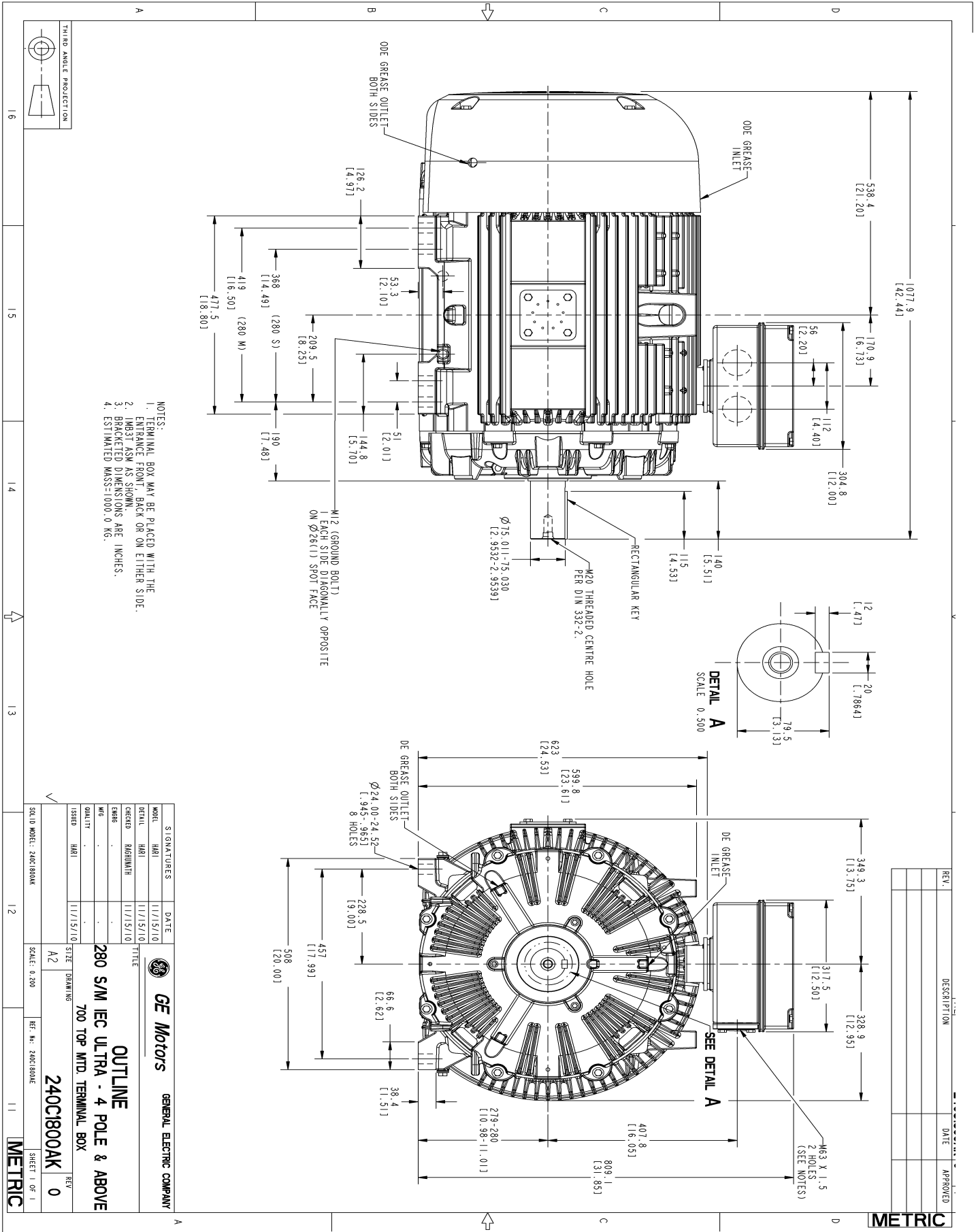
This motor is capable of two cold or one hot start with a maximum connected load inertia of 686.65 Kg-meter Sqat 100% voltage, where the load torque varies with the square of the speed. Acceleration time with maximum inertia and the above load type is 70 seconds. Safe stall time at 100% voltage is 136 seconds cold, 83 seconds hot. Rotor inertia is 4.17 Kg-meter Sq.

Open Circuit A-C:	0.507	Short Circuit D-C:	0.034
Short Circuit A-C:	0.035	X/R Ratio:	12.737
Stator Slots:	72	Rotor Slots:	58

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. IGBT ASM AS SHOWN.
 3. BRACKETED DIMENSIONS ARE IN INCHES.
 4. ESTIMATED MASS=1000.0 KG.

REV.	DESCRIPTION	DATE	APPROVED

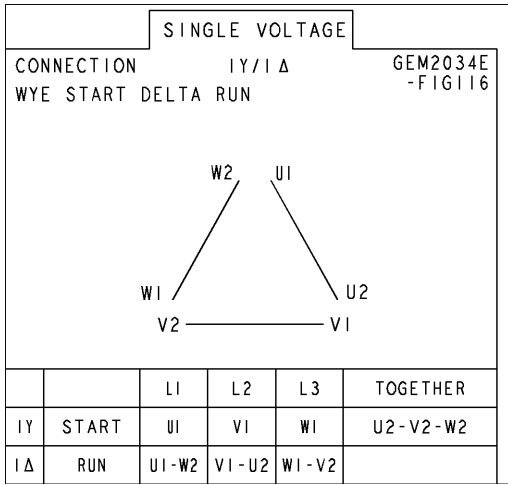
SIGNATURES	DATE	GE Motors GENERAL ELECTRIC COMPANY
MODEL: HARI	11/15/10	
DETAIL: HARI	11/15/10	
CHECKED: BAGINATH	11/15/10	
TITLE 280 S/M IEC ULTRA - 4 POLE & ABOVE 700 TOP MTD. TERMINAL BOX		
ISSUED: HARI	11/15/10	SIZE: DRAWING A2 SCALE: 0.200 REF. No. 240C1800AK 240C1800AK SHEET 1 OF 1

METRIC

METRIC

Marks:

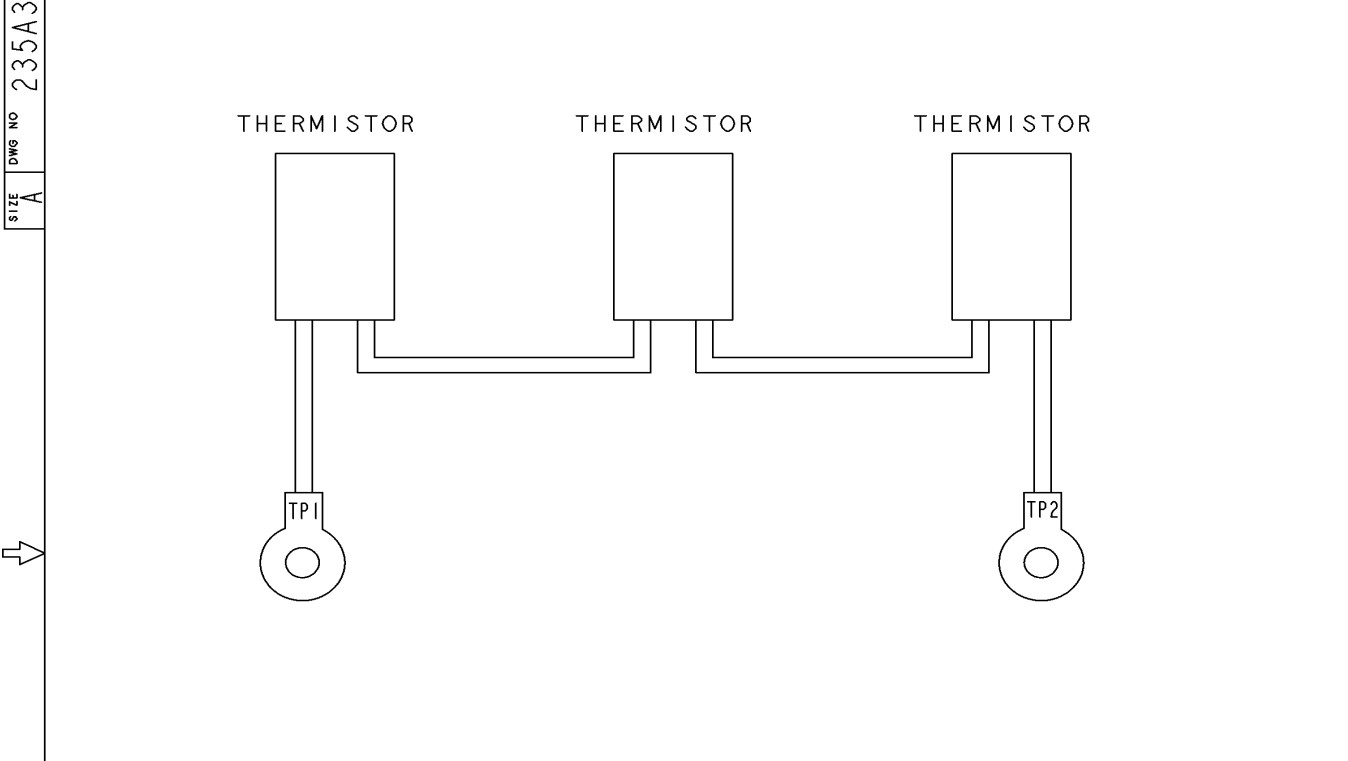
Connection Diagram
GEM2034E-FIG116





REV 0	THIRD ANGLE PROJECTION	REVISIONS		
		REV	DESCRIPTION	DATE

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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	Fort Wayne, Indiana CONNECTION DIAGRAM PTC THERMISTORS SINGLE WINDING	
	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

DISTR TO

