

# Product Information Packet

January 12, 2017

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

<b>Model Number:</b>	<b>5KFS292XAA118</b>
<b>Catalog Number:</b>	<b>N562</b>
<b>Instruction Manual:</b>	GEI-M1036
<b>Connection Diagram:</b>	GEM2034E-FIG116
<b>Outline Drawing:</b>	240C1800AJ

Accessory Connection Diagrams			
<b>Bearing Thermocouple:</b>	None	<b>Heater:</b>	None
<b>RTD:</b>	None	<b>Thermistor:</b>	235A3027VD
<b>Thermostat:</b>	None	<b>Winding Thermocouple:</b>	None
<b>Bearing RTD:</b>	None		

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**Marks:**

<b>MODEL NUMBER:</b>	<b>5KFS292XAA118</b>	<b>Estimated Weight:</b>	903 Kg
<b>Outline Drawing:</b>	240C1800AJ	<b>Duty:</b>	S1
<b>Connection Diagram:</b>	GEM2034E-FIG116	<b>Enclosure:</b>	TEFC
<b>Connection:</b>	DELTA	<b>Encl Construction:</b>	841
<b>Instruction Book:</b>	GEI-M1036	<b>Cooling(IC):</b>	411
<b>Design Code:</b>	44RD0015A	<b>Protection (IP):</b>	55
<b>Type:</b>	KFS	<b>Ambient Max (°C):</b>	40
<b>Frame:</b>	280M	<b>Alt Ambient Max (°C):</b>	--
<b>Mounting(IM):</b>	B3T	<b>Ambient Min (°C):</b>	-40
<b>Phases:</b>	3	<b>Insulation Class:</b>	H
<b>Poles:</b>	2	<b>IEC Design:</b>	N
<b>Output Power:</b>	110 KW	<b>Nominal Efficiency:</b>	95.0 %
<b>RPM:</b>	3585	<b>Guaranteed Efficiency:</b>	94.3
<b>Voltage:</b>	460	<b>Max KVAR:</b>	33.3
<b>Hertz:</b>	60	<b>Power Factor:</b>	89.5
<b>Amps - FL:</b>	162.0	<b>Bearing - DE:</b>	6314ZC3
<b>Service Factor:</b>	1.00	<b>Bearing - ODE:</b>	6314ZC3
<b>Alt Service Factor:</b>	--	<b>Vibration:</b>	1.4 mm/s

**Enclosure is Totally Enclosed Fan-Cooled**

**Stamped Nameplate Notes:**

DE BRG 70BC03JP3, ODE BRG 70BC03JP3  
 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

**Additional Information:**

2P - 65 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  
 ROUTINE TEST REPORT AND 5 POINT VIBRATION TEST  
 REPORT INCLUDED IN C/B  
 TOP MOUNTED CONDUIT BOX  
 GROUND SCREWS ON FRAME  
 .038 MM TIR SHAFT RUNOUT  
 170 DEG C THERMISTOR LDS TO AUXILIARY TERMINAL  
 BOARD IN MAIN CONDUIT BOX

**Performance Characteristics**

1st Winding 1st Connection

**Design: 44RD0015A**

Marks:

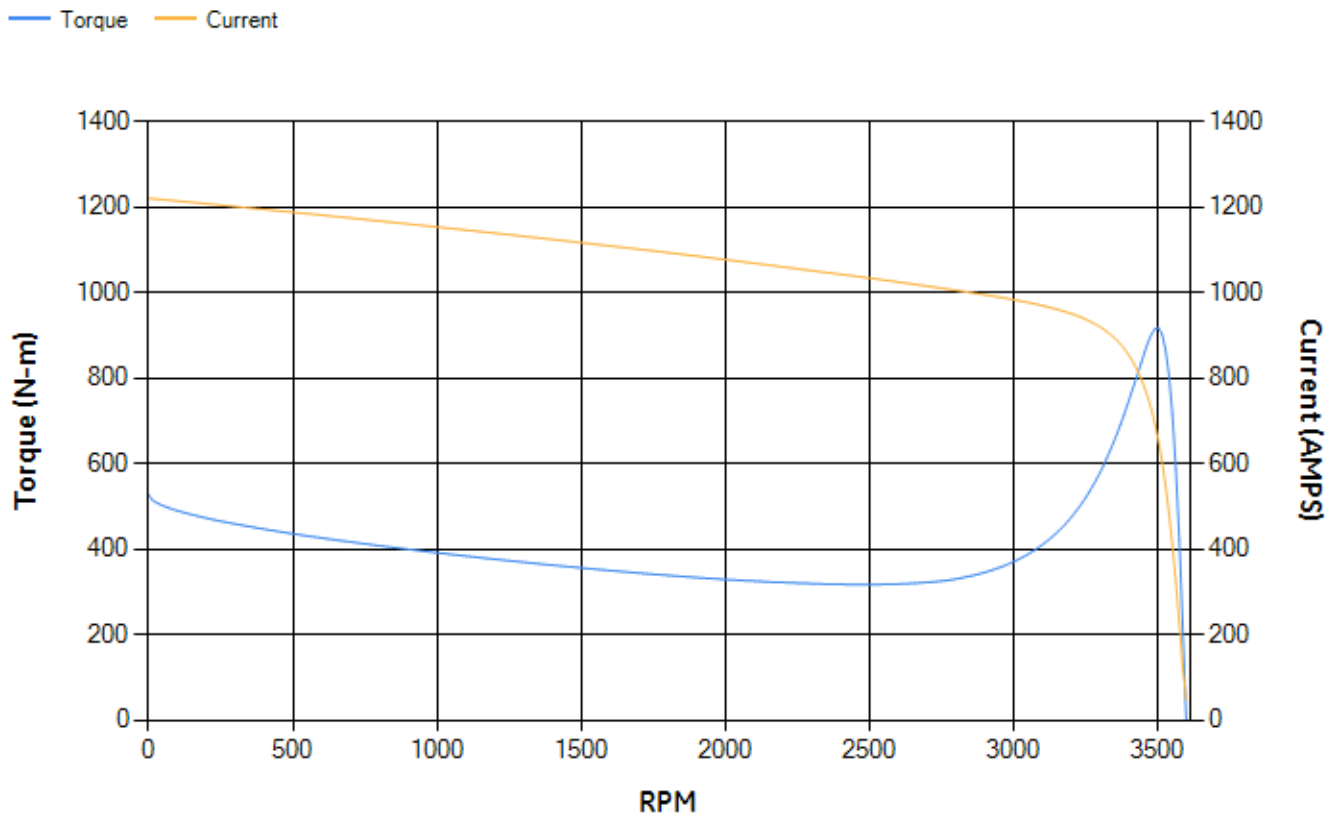
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	95.42	95.5	95.75	95.36	94.47	90.97	0.00
% PF	90.56	90.38	89.78	87.38	80.95	61.72	6.76
AMPS	199.71	183.96	160.61	124.26	90.27	61.47	46.26

TORQ(FL)N-m	293.1	TORQ(LR)%FL	179.83	TORQ(BD)%FL	313.01
AMPS(LR)	1219.96	PF AT START	0.21		

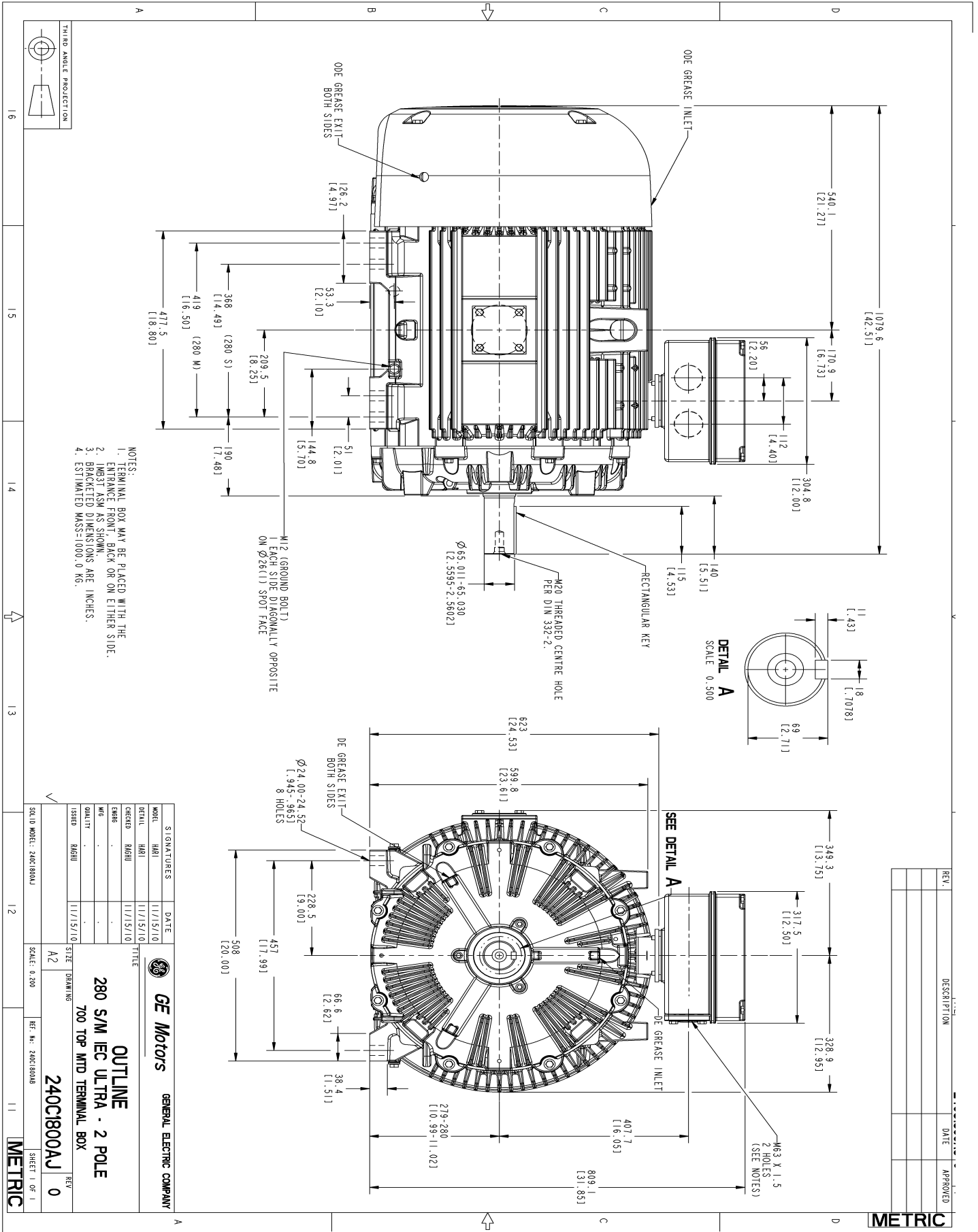
This motor is capable of two cold or one hot start with a maximum connected load inertia of 24.71 Kg-meter Sqat 100% voltage, where the load torque varies with the square of the speed. Acceleration time with maximum inertia and the above load type is 32 seconds. Safe stall time at 100% voltage is 65 seconds cold, 38 seconds hot. Rotor inertia is 1.25 Kg-meter Sq.

Open Circuit A-C:	1.858	Short Circuit D-C:	0.038
Short Circuit A-C:	0.074	X/R Ratio:	14.217
Stator Slots:	48	Rotor Slots:	38

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. IWS31 ASW AS SHOWN.
  3. BRACKETED DIMENSIONS ARE INCHES.
  4. ESTIMATED MASS=1000.0 KG.

SIGNATURES	DATE	TITLE
MODEL HARI	11/15/10	DETAIL
CHECKED BIGHILL	11/15/10	
DESIGNED BIGHILL		
ISSUED BIGHILL	11/15/10	

GE Motors GENERAL ELECTRIC COMPANY

**OUTLINE**  
280 S/M IEC ULTRA - 2 POLE  
700 TOP MTD TERMINAL BOX

240C1800AJ

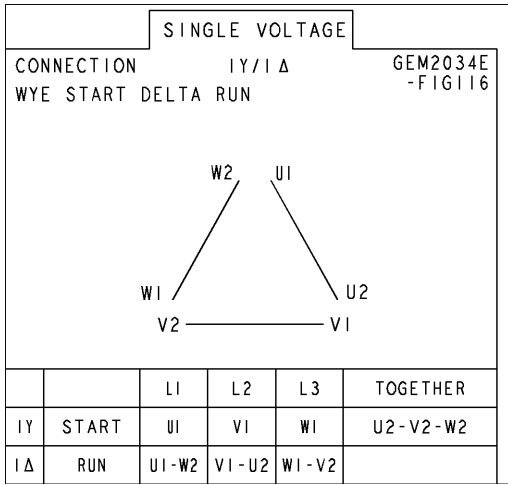
SCALE: 0.200

REV 0

METRIC

Marks:

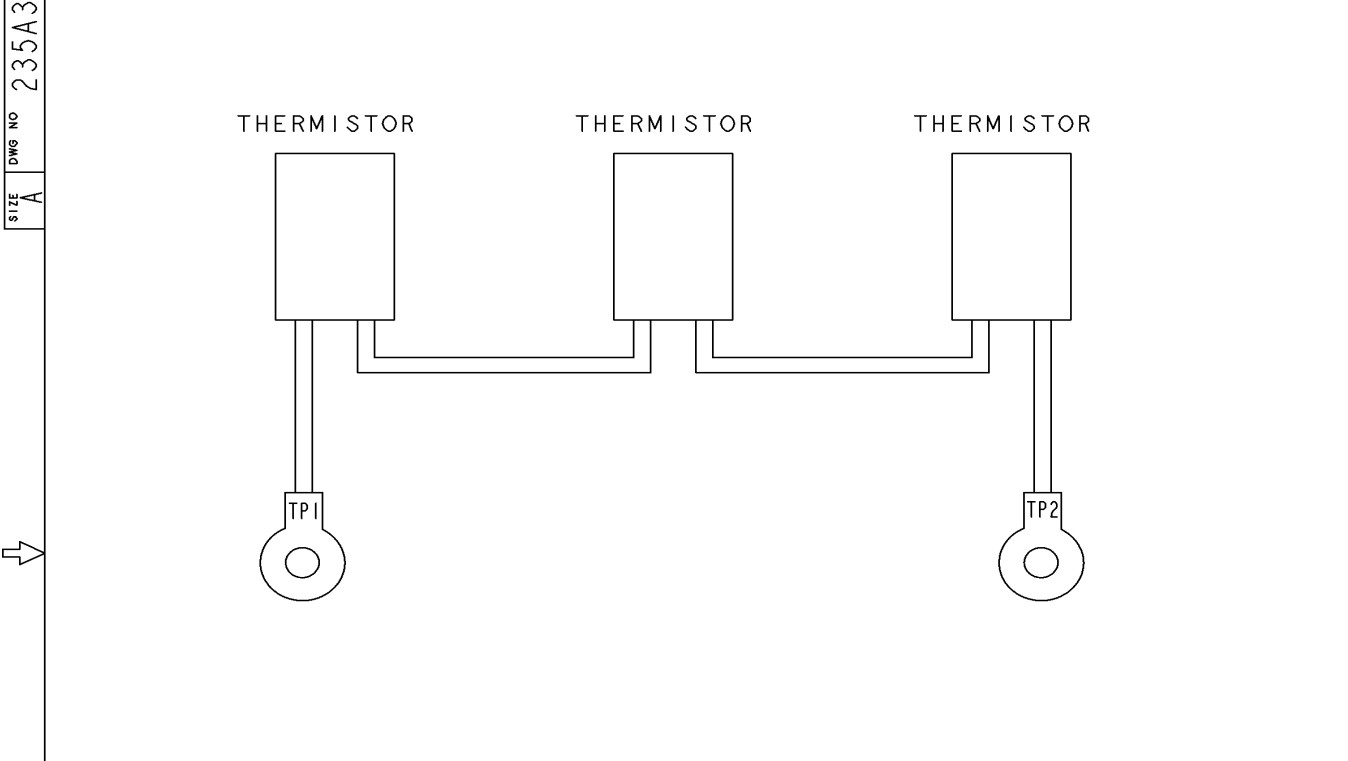
**Connection Diagram**  
**GEM2034E-FIG116**





SH 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 <b>CONNECTION DIAGRAM</b> 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

