

Product Information Packet

January 12, 2017

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

Model Number:	5KS513SAA171A
Catalog Number:	Q561
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG20
Outline Drawing:	239C6C00HJ

Accessory Connection Diagrams			
Bearing Thermocouple:	None	Heater:	3027JE-1C
RTD:	None	Thermistor:	None
Thermostat:	None	Winding Thermocouple:	None
Bearing RTD:	235A3027NA		

Table of Contents	
Specification	01
Performance Characteristics	02
Outline Drawing	03
Connection Drawing(s)	04

Marks:

MODEL NUMBER:	5KS513SAA171A	Estimated Weight:	6917 Lbs
Outline Drawing:	239C6C00HJ	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG20	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	SD
Design Code:	50BD0087BA	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	5013ST	Insulation Class:	F
Phases:	3	NEMA Design:	--
Poles:	2	Nominal Efficiency:	95.8 %
Output Power:	600HP 444KW	Guaranteed Efficiency:	95.0
RPM:	3565	3/4 Load Efficiency:	96.3
Voltage:	575	KVA Code:	E
Hertz:	60	Max KVAR:	51.0
Amps - FL:	496.0	Power Factor:	94.5
Service Factor:	1.00	Bearing - DE:	6315ZC3
Alt Service Factor:	--	Bearing - ODE:	6315ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

HTR LDS HE1-HE2 115V 350W
 ROT CW FACING ODE LEAD/PH SEQUENCE 1-2-3/1-2-3
 INVERTER DUTY PER NEMA MG1 PART 31
 ALTERNATE RATING FOR PWM CONTROL:1.0SF 40C AMBIENT
 VAR TORQUE RANGE 0-60 HZ
 FOR DIRECT COUPLED LOAD ONLY

Additional Information:

2P - ST EXTN - SPLIT LEAD
 2500 CU IN - 2(4.00" NPT)
 C/B GRD PLATE
 115V HTR LDS TO AUX BOX OPP MAIN CONDUIT BOX
 SPACE HEATER CAUTION NAMEPLATE
 BEARING RTD PROVISION ON BOTH ENDS PLUGGED
 NEMA TYPE GRD PAD
 F1 MOUNTING

Performance Characteristics

1st Winding 1st Connection

Design: 50BD0087BA

Marks:

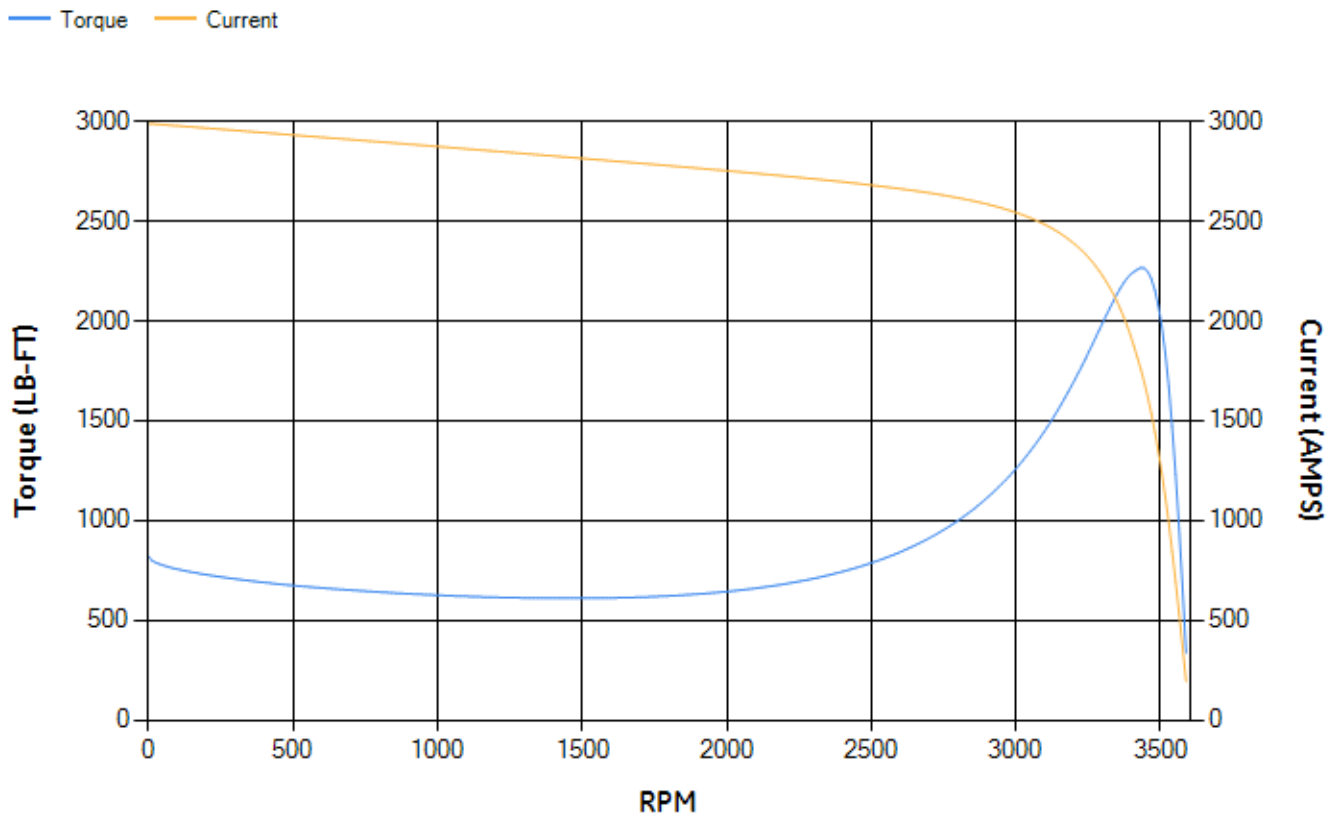
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	95.19	95.47	96.03	96.26	96.29	94.96	0.00
% PF	93.81	94.24	94.72	95.01	94.03	87.47	8.23
AMPS	628.87	574.25	493.17	368.43	248.08	135.22	56.95

TORQ(FL)#FT	884.04	TORQ(LR)%FL	92.7	TORQ(BD)%FL	256.13
AMPS(LR)	2988.73	PF AT START	0.17		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 1210 Lb-Ft Sq (50.94 Kg-meter Sq)at 100% voltage, where the load torque varies with the square of the speed. Acceleration time with maximum inertia and the above load type is 27 seconds. Safe stall time at 100% voltage is 61 seconds cold, 33 seconds hot. Rotor inertia is 158.26 Lb-Ft Sq (6.66 Kg-meter Sq).

Open Circuit A-C:	2.321	Short Circuit D-C:	0.042
Short Circuit A-C:	0.047	X/R Ratio:	15.759
Stator Slots:	48	Rotor Slots:	40

Speed Torque Current Curve (First Connection, First Speed)



Marks:

Connection Diagram
GEM2034E-FIG20



Heater Connection
3027JE-1C



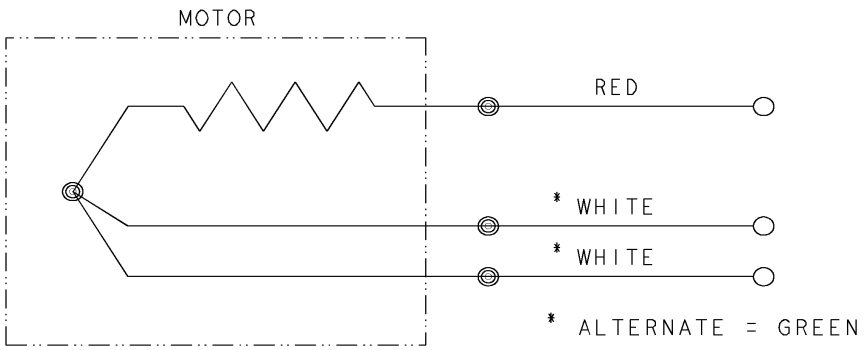


REV SH 1 1	THIRD ANGLE PROJECTION		REVISIONS		
		REV	DESCRIPTION	DATE	APPROVED
		1	ISAAC #12-1124	HARI	11/19/12

SIZE A
 DWG NO 235A3027NA

CONFIDENTIAL AND PROPRIETARY
 This document is the property of General Electric Company and contains proprietary and confidential information of the Motor Business Group (MBG). The document is loaned on the express conditions that neither it nor the information contained therein shall be disclosed to others without the express consent of MBG and that the information shall be used by the recipient only as approved expressly by MBG. Also, the document shall be returned to MBG upon its request.

BEARING RTDS



UNLESS OTHERWISE SPECIFIED	SIGNATURES	DATE
DIMENSIONS ARE IN INCHES	DRAWN D.E. BAIR	12/16/92
TOLERANCES ON:	CHECKED D.E. BAIR	12/16/92
2 PL DECIMALS ±	ENGRG K. DESAI	12/16/92
3 PL DECIMALS ±	ISSUED D.E. BAIR	12/16/92
ANGLES ±		
FRACTIONS ±		
MATERIAL:		
APPLIED PRACTICES:	CAD NO. F500:235A3027NA	

GE Motors

Fort Wayne, Indiana

CONNECTION DIAGRAM

BEARING RTDS

SIZE A	FSCM NO	DWG NO 235A3027NA
SCALE 1/1	SHEET 1 OF 1	

DISTR TO