

Product Information Packet

January 12, 2017

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

Model Number:	5KS513SAA173A
Catalog Number:	Q563
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG20
Outline Drawing:	239C6C00HD

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

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Marks:

MODEL NUMBER:	5KS513SAA173A	Estimated Weight:	6917 Lbs
Outline Drawing:	239C6C00HD	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG20	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	SD
Design Code:	50BD0169A	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	5013ST	Insulation Class:	F
Phases:	3	NEMA Design:	--
Poles:	2	Nominal Efficiency:	96.2 %
Output Power:	700HP 518KW	Guaranteed Efficiency:	95.4
RPM:	3570	3/4 Load Efficiency:	96.8
Voltage:	460	KVA Code:	H
Hertz:	60	Max KVAR:	78.4
Amps - FL:	717.0	Power Factor:	95.0
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
 5700 CU IN - 3(3.00" 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: 50BD0169A

Marks:

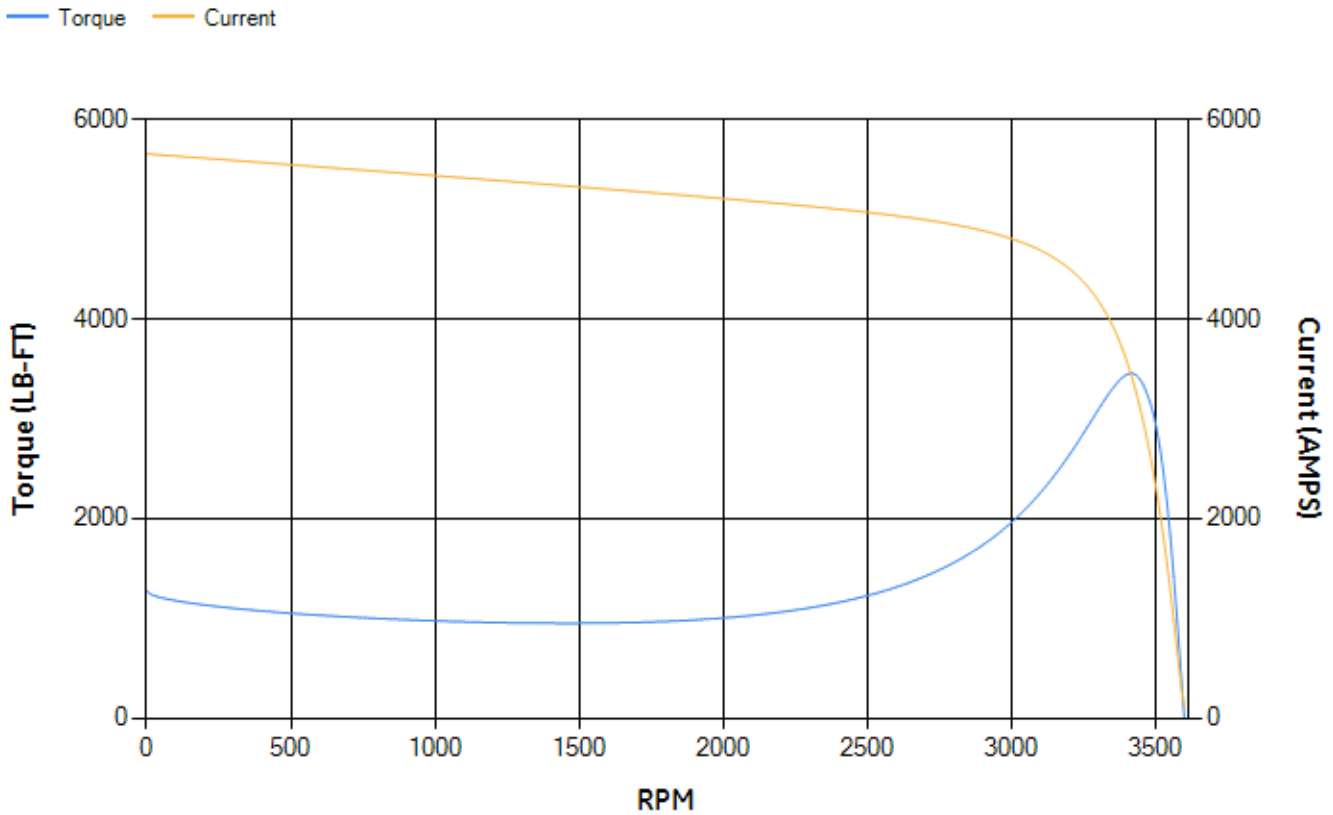
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	96.14	96.31	96.73	96.76	96.62	95.12	0.00
% PF	94.73	94.88	94.96	94.51	92.33	82.17	6.23
AMPS	899.23	824.53	712.38	537.35	367.24	209.55	109.33

TORQ(FL)#FT	1028.8	TORQ(LR)%FL	124.05	TORQ(BD)%FL	335.19
AMPS(LR)	5653.65	PF AT START	0.17		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 1455 Lb-Ft Sq (61.26 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 19 seconds. Safe stall time at 100% voltage is 39 seconds cold, 22 seconds hot. Rotor inertia is 158.26 Lb-Ft Sq (6.66 Kg-meter Sq).

Open Circuit A-C:	2.261	Short Circuit D-C:	0.043
Short Circuit A-C:	0.046	X/R Ratio:	16.033
Stator Slots:	48	Rotor Slots:	40

Speed Torque Current Curve (First Connection, First Speed)



Marks:

Connection Diagram
GEM2034E-FIG20



Heater Connection
3027JE-1C



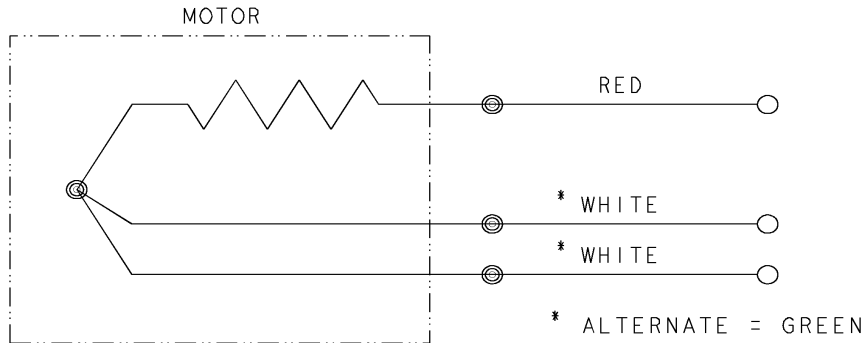


REV 1 SH SIZE A DWG NO 235A3027NA	THIRD ANGLE PROJECTION		REVISIONS			
			REV	DESCRIPTION	DATE	APPROVED
	1	ISAAC #12-1124	HARI	11/19/12	KARTHIK	

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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	



Fort Wayne, Indiana

CONNECTION DIAGRAM

BEARING RTDS

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

DISTR TO

