

Product Information Packet

January 12, 2017

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

Model Number:	5KS511SAA2002A
Catalog Number:	Q5001
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG25
Outline Drawing:	239C6B00MJ

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

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Marks:

MODEL NUMBER:	5KS511SAA2002A	Estimated Weight:	5102 Lbs
Outline Drawing:	239C6B00MJ	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG25	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	SD
Design Code:	50BD1246B	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	5011LL	Insulation Class:	F
Phases:	3	NEMA Design:	B
Poles:	4	Nominal Efficiency:	96.2 %
Output Power:	450HP 333KW	Guaranteed Efficiency:	95.4
RPM:	1785	3/4 Load Efficiency:	96.7
Voltage:	575	KVA Code:	G
Hertz:	60	Max KVAR:	93.0
Amps - FL:	394.0	Power Factor:	89.0
Service Factor:	1.15	Bearing - DE:	6320ZC3
Alt Service Factor:	--	Bearing - ODE:	6315ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

HTR LDS HE1-HE2 115V 350W
 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:

4P - LL EXTN - SPLIT LEAD
 1260 CU IN - 2(4.00" NPT)
 C/B GRD PLATE
 115V HTR LDS TO AUX BOX OPP MAIN CONDUIT BOX
 SPACE HEATER CAUTION NAMEPLATE
 NEMA TYPE GRD PAD
 F1 MOUNTING
 PROVISION FOR BTD ON BOTH ENDS PLUGGED

Performance Characteristics

1st Winding 1st Connection

Design: 50BD1246B

Marks:

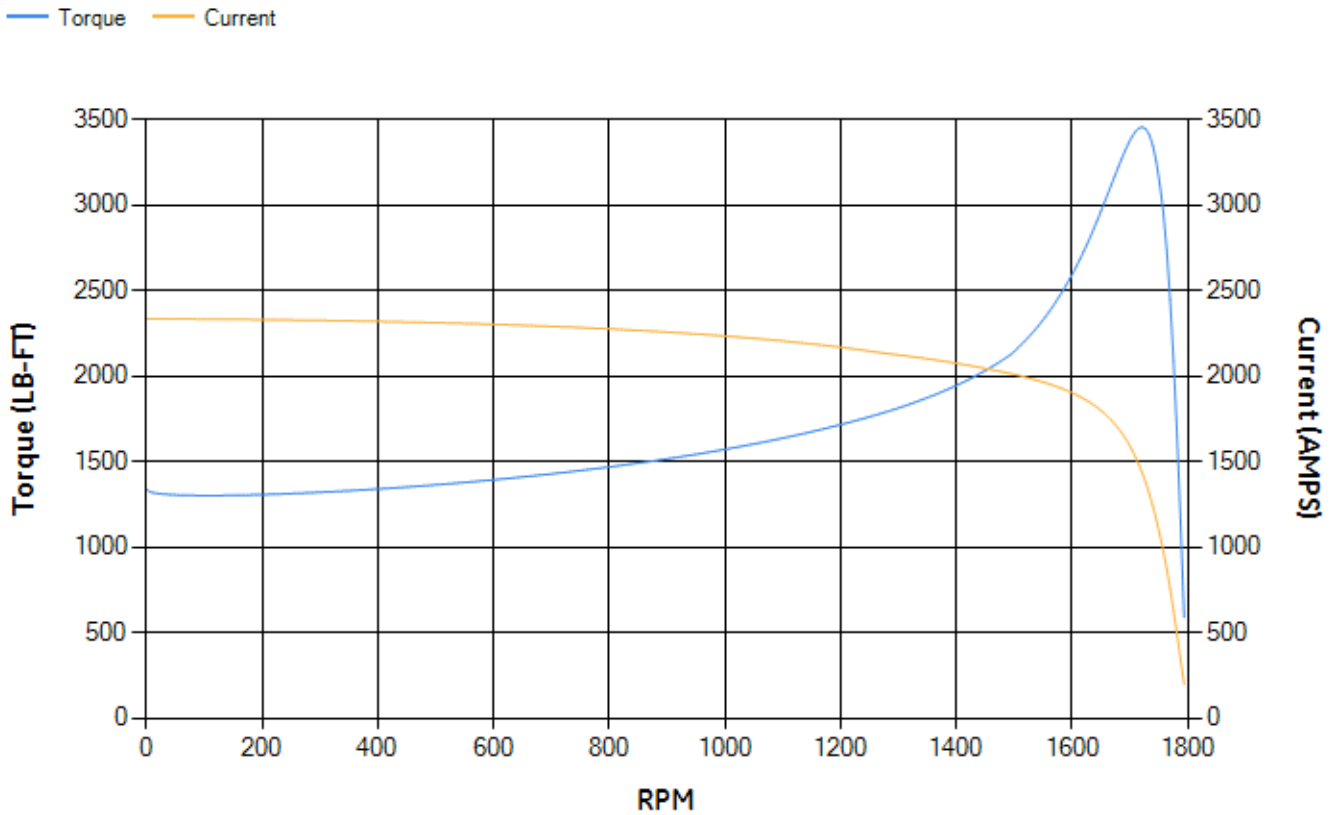
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	96.19	96.35	96.74	96.69	96.41	94.61	0.00
% PF	89.39	89.44	89.17	87.36	81.68	63.01	4.05
AMPS	489.82	449.66	390.87	299.17	213.94	141.3	103.75

TORQ(FL)#FT	1323.25	TORQ(LR)%FL	100.94	TORQ(BD)%FL	260.85
AMPS(LR)	2333.63	PF AT START	0.22		

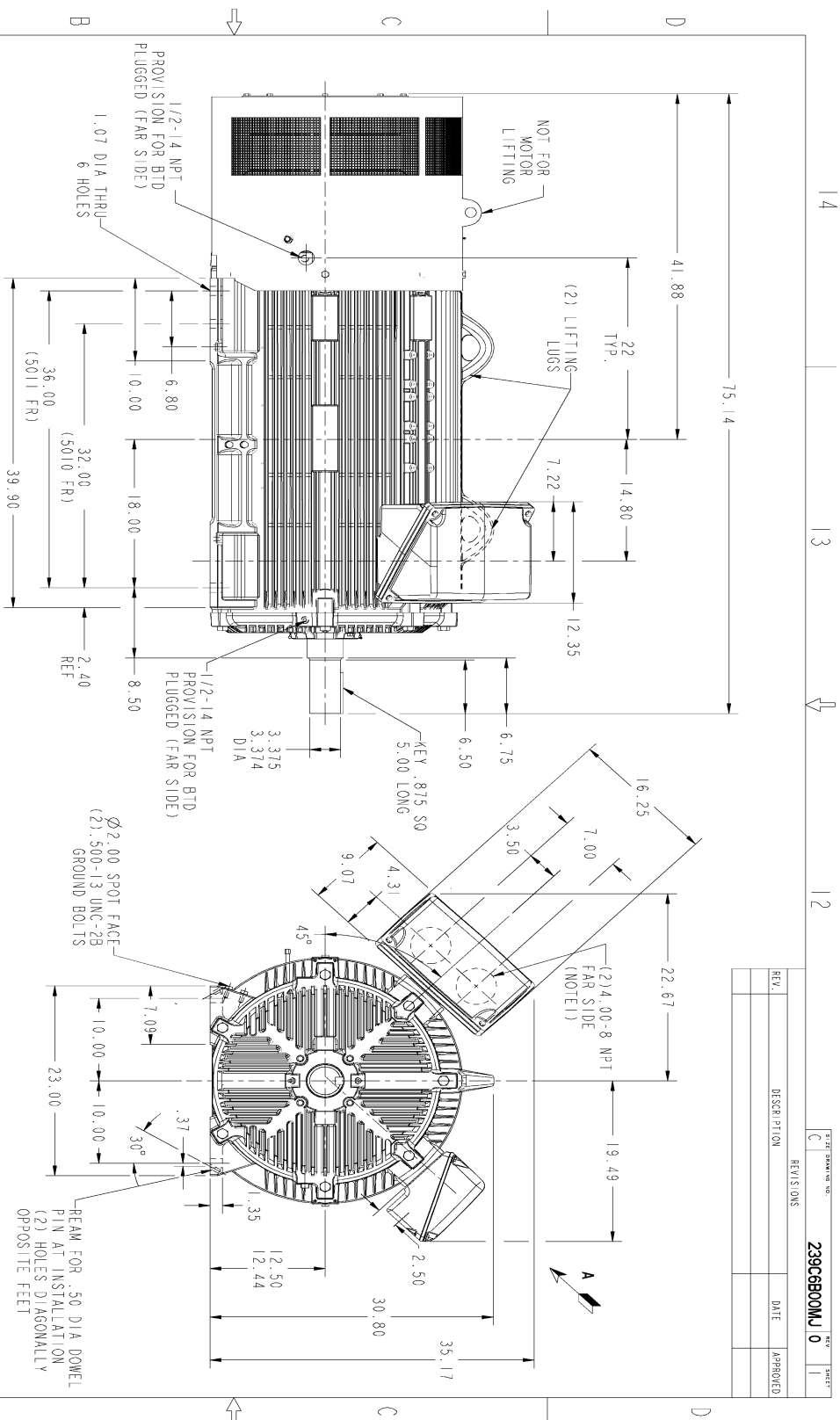
This motor is capable of two cold or one hot start with a maximum connected load inertia of 10090 Lb-Ft Sq (424.79 Kg-meter Sq)at 100% voltage, where the load torque varies with the square of the speed. Acceleration time with maximum inertia and the above load type is 47 seconds. Safe stall time at 100% voltage is 91 seconds cold, 56 seconds hot. Rotor inertia is 157.81 Lb-Ft Sq (6.64 Kg-meter Sq).

Open Circuit A-C:	1.225	Short Circuit D-C:	0.044
Short Circuit A-C:	0.049	X/R Ratio:	16.742
Stator Slots:	72	Rotor Slots:	58

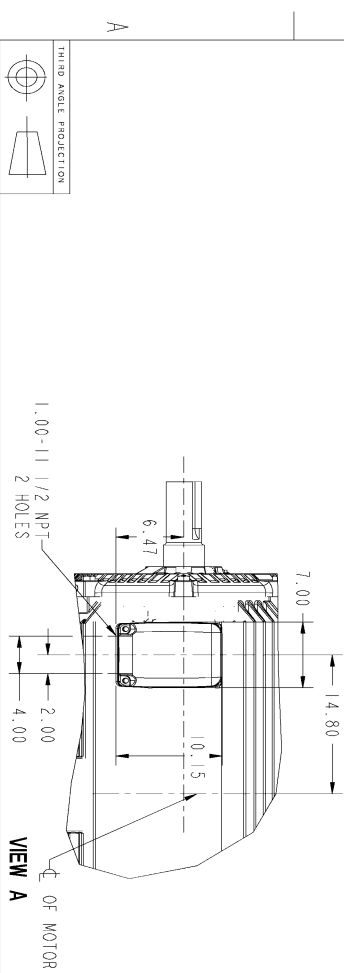
Speed Torque Current Curve (First Connection, First Speed)



Marks:



- NOTES:
1. CONDUIT BOX MAY BE PLACED WITH THE ENTRANCE DOWN, UP OR ON EITHER SIDE.
 2. F-1 ASSEMBLY AS SHOWN.
 3. ALL DIMENSIONS ARE IN INCHES.

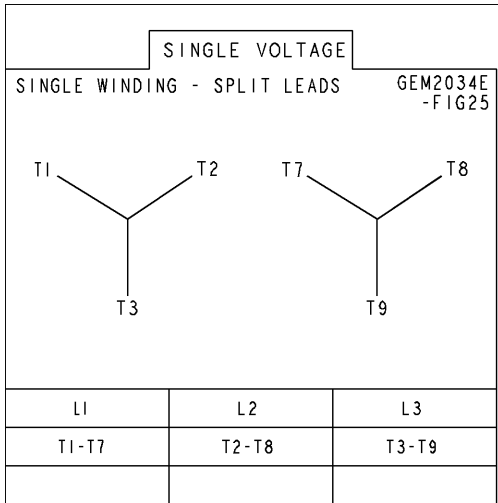


REV.	DESCRIPTION	DATE	APPROVED

SIGNATURES		DATE	
MODEL	HAEHRMAN	01/07/15	
SCALE	HAEHRMAN	01/07/15	
DESIGN	MATHIK	01/07/15	
CHKD	HAEHRMAN	01/07/15	
DATE	HAEHRMAN	01/07/15	
ISSUED	HAEHRMAN	01/07/15	
QUALITY			
SIZE	C	DRAWING	
SCALE	0.125	REF. NO.	239C6B00MU
GENERAL ELECTRIC COMPANY			
OUTLINE			
QUANTUM 5010/5011 LL			
1260 CU IN C/BOX, ACC. BOX, PROV. FOR BTDS/TC'S			
239C6B00MU			
SHEET 1 OF 1			

Marks:

Connection Diagram
GEM2034E-FIG25



Heater Connection
3027JE-1C

