GE
Power Conversion

Product Information Packet

January 12, 2017

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

Model Number:	**5KS511SAA368A**
Catalog Number:	**Q588**
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG25
Outline Drawing:	239C6B00MM

Accessory Connection Diagrams

Bearing Thermocouple:	None	**Heater:**	3027JE-1C
RTD:	None	**Thermistor:**	None
Thermostat:	None	**Winding Thermocouple:**	None
Bearing RTD:	None		

Table of Contents

imagination at work

Marks:

MODEL NUMBER:	**5KS511SAA368A**	**Estimated Weight:**	5393 Lbs
Outline Drawing:	239C6B00MM	**Time Rating:**	CONT
Connection Diagram:	GEM2034E-FIG25	**Enclosure:**	TEFC
Instruction Book:	GEI-56128	**Encl Construction:**	SD
Design Code:	50BD3180A	**Ambient Max(°C):**	40
Type:	KS	**Alt Ambient Max(°C):**	--
Frame:	5011L	**Insulation Class:**	F
Phases:	3	**NEMA Design:**	B
Poles:	6	**Nominal Efficiency:**	95.8 %
Output Power:	350HP 259KW	**Guaranteed Efficiency:**	95.0
RPM:	1185	**3/4 Load Efficiency:**	96.1
Voltage:	460	**KVA Code:**	G
Hertz:	60	**Max KVAR:**	87.8
Amps - FL:	398.0	**Power Factor:**	86.0
Service Factor:	1.15	**Bearing - DE:**	NU 320
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
ROLLER BEARING - FOR BELTED LOAD ONLY

Additional Information:

6P - L EXTN - SPLIT LEAD
1260 CU IN - 2(4.00" NPT)
C/B GRD PLATE
B5F4C4 HIGH STRENGTH STEEL AISI 4142 SHAFT MATERIAL
115V HTR LDS TO AUX BOX OPP MAIN CONDUIT BOX
SPACE HEATER CAUTION NAMEPLATE
NEMA TYPE GRD PAD
F1 MOUNTING
SHAFT BLOCKING FOR SHIPMENT
PROVISION FOR BTD ON BOTH ENDS PLUGGED

Performance Characteristics 1st Winding 1st Connection **Design: 50BD3180A**

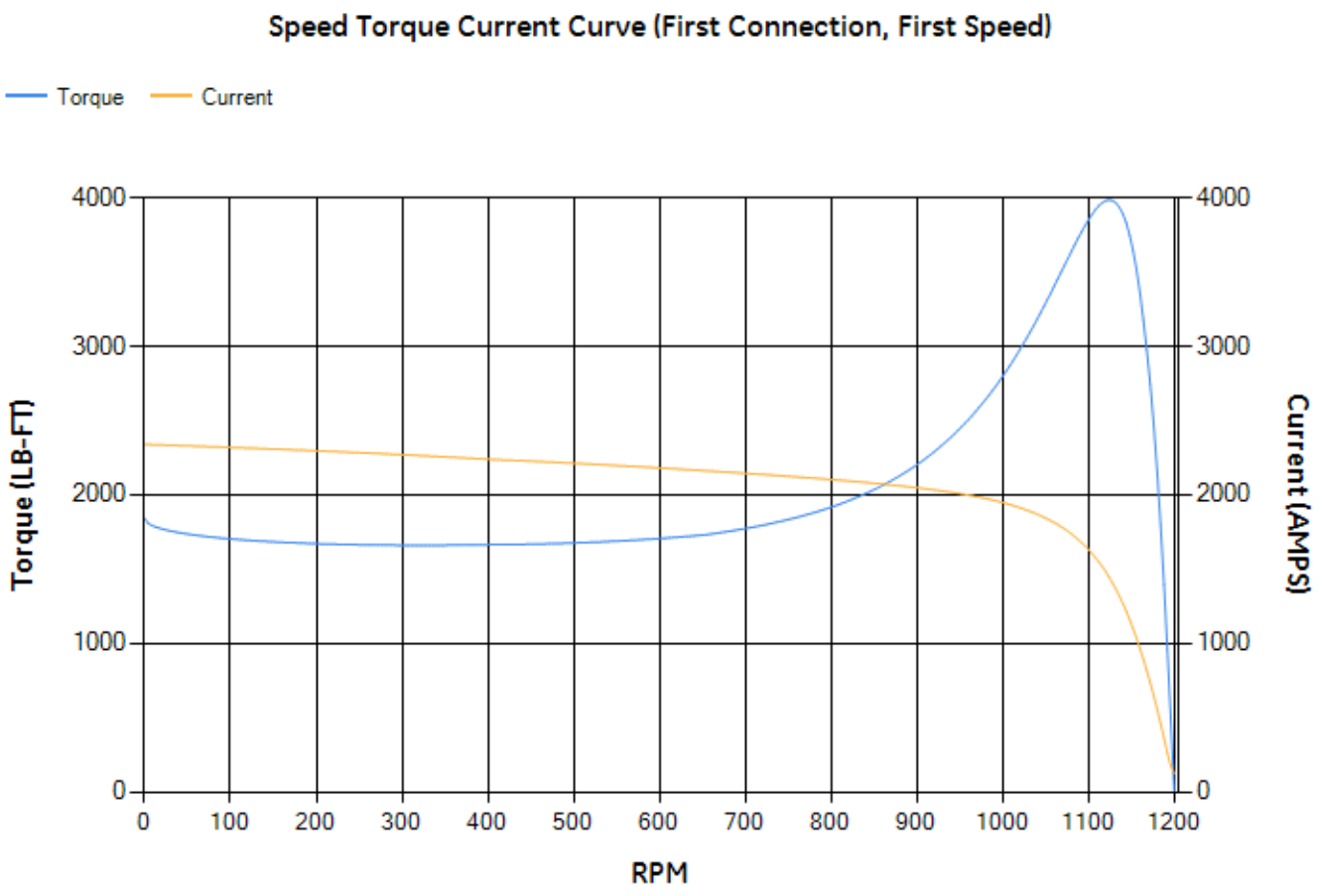
Marks:

LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	95.01	95.29	95.86	96.07	96.06	94.54	0.00
% PF	86.49	86.45	85.96	83.38	76.14	55.48	3.19
AMPS	498.32	457.3	397.76	306.69	223.94	156.15	122.48

TORQ(FL)#FT	1550	**TORQ(LR)%FL**	118.77	**TORQ(BD)%FL**	256.46
AMPS(LR)	2339.17	**PF AT START**	0.24		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 16508 Lb-Ft Sq (694.99 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 42 seconds. Safe stall time at 100% voltage is 87 seconds cold, 51 seconds hot. Rotor inertia is 236.72 Lb-Ft Sq (9.97 Kg-meter Sq).

Open Circuit A-C:	0.709	**Short Circuit D-C:**	0.04
Short Circuit A-C:	0.035	**X/R Ratio:**	14.89
Stator Slots:	72	**Rotor Slots:**	58



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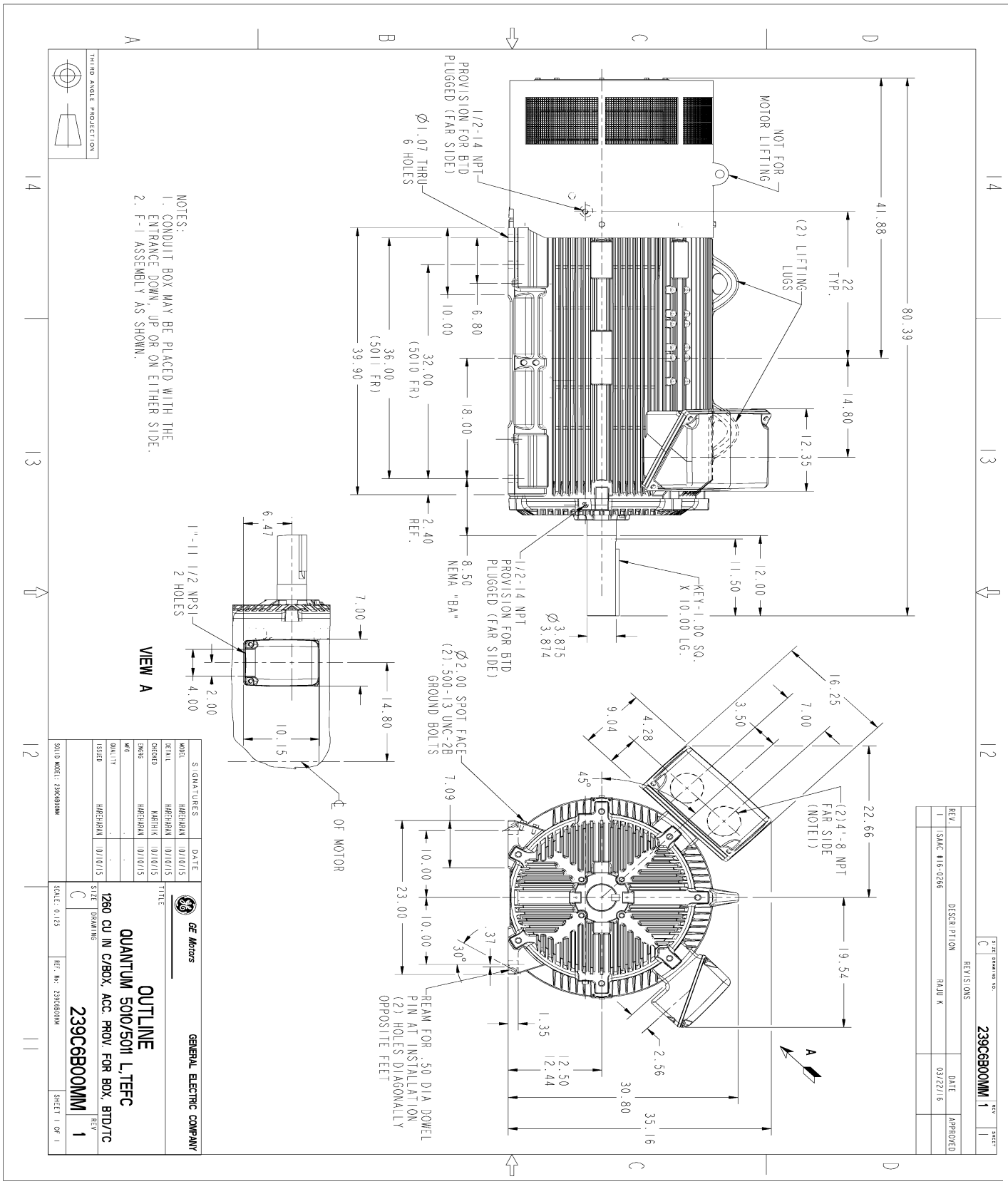
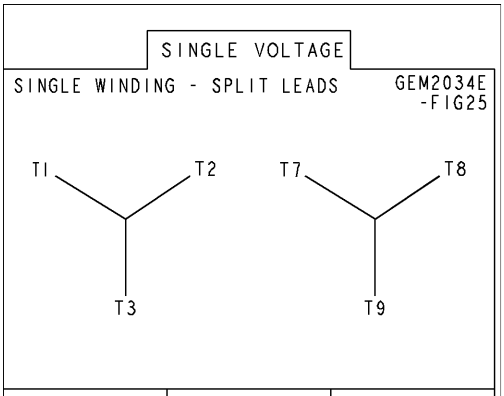

NOTES:
1. CONDUIT BOX MAY BE PLACED WITH THE ENTRANCE DOWN, UP OR ON EITHER SIDE.
2. F-1 ASSEMBLY AS SHOWN.
NOT FOR MOTOR LIFTING
(2) LIFTING LUGS
1/2-14 NPT PROVISION FOR BTD PLUGGED (FAR SIDE)
Ø1.07 THRU 6 HOLES
41.88
22 TYP.
80.39
14.80
12.35
10.00
6.80
18.00
32.00 (5010 FR)
36.00 (5011 FR)
39.90
2.40 REF.
11.50
12.00
KEY-1.00 SQ. X 10.00 LG.
Ø3.875 3.874
8.50 NEMA "BA"
1"-11 1/2 NPSI 2 HOLES
6.47
7.00
4.00
2.00
14.80
10.15
VIEW A
℄ OF MOTOR
Ø2.00 SPOT FACE (2).500-13 UNC-2B GROUND BOLTS
7.09
16.25
7.00
3.50
9.04
4.28
45°
(2)4"-8 NPT FAR SIDE (NOTE1)
22.66
19.54
10.00
10.00
23.00
.37
30°
REAM FOR .50 DIA DOWEL PIN AT INSTALLATION (2) HOLES DIAGONALLY OPPOSITE FEET
1.35
2.56
12.50
12.44
30.80
35.16
A
SIZE C DRAWING NO. 239C6B00MM REV 1 SHEET 1
REVISIONS
REV. DESCRIPTION DATE APPROVED
1 ISAAC #16-0266 RAJU K 03/22/16
SIGNATURES
MODEL HARIHARAN 10/10/15
DETAIL HARIHARAN 10/10/15
CHECKED KARTHIK 10/10/15
ENGRG HARIHARAN 10/10/15
MFG
QUALITY
ISSUED HARIHARAN 10/10/15
DATE
SOLID MODEL: 239C6B00MM
GE Motors
GENERAL ELECTRIC COMPANY
TITLE
OUTLINE
QUANTUM 5010/5011 L,TEFC
1260 CU IN C/BOX, ACC. PROV. FOR BOX, BTD/TC
SIZE C DRAWING 239C6B00MM REV 1
SCALE: 0.123 REF. No: 239C6B00MM SHEET 1 OF 1
THIRD ANGLE PROJECTION

Marks:

Connection Diagram
GEM2034E-FIG25



L1	L2	L3
T1-T7	T2-T8	T3-T9

Heater Connection
3027JE-1C

SUPPLY VOLTAGE LEADS	L1	L2
HEATER LEADS	HE1	HE2