



Wednesday, November 12, 2014

Technical Data Center
PO Box 2204
Fort Wayne, IN 46801-2204

Customer: GE OIL & GAS ESP, INC (I
5500 S.E. 59TH ST.
OKLAHOMA CITY, OK 73135

DataPack Document, Version: v14118594.01 Courtesy of EliteNET

Inside Sales Representative: MR. JOHN. E ASHER
Inside Sales Rep Phone: +1 260 439 4891
Model Number: 5KS447SAA168A
Sales Order No:
Order Line No:
Instruction Manual: GEI-56128
Connection Diagram: GEM2034E-FIG20

Alternate Phone: 260-439-2000
Customer Order No:
Customer Item No:
Customer Part No:
Outline Drawing: 239C6800VJ

Accessory Connection Diagrams

Bearing Thermocouple: None
RTD: None
Thermostat: None
Bearing RTD: 235A3027NA

Heater: 3027JE-1
Thermistor: None
Winding Thermocouple: None

Revision History

<u>Version</u>	<u>Date</u>	<u>Comments</u>
v14118594.01	11/12/2014	Original Version

Distribution Information

<u>Quantity</u>	<u>Recipient</u>	<u>Quantity</u>	<u>Recipient</u>
None			



Wednesday, November 12, 2014

Technical Data Center
PO Box 2204
Fort Wayne, IN 46801-2204

Customer: GE OIL & GAS ESP, INC (I
5500 S.E. 59TH ST.
OKLAHOMA CITY, OK 73135

DataPack Document, Version: v14118594.01 Courtesy of EliteNET

Customer Order / Item:

Customer Part: None

Sales Order No:

Order Line No:

Marks:

MODEL NUMBER: 5KS447SAA168A

Outline Drawing: 239C6800VJ

Connection Diagram: GEM2034E-FIG20

Instruction Book: GEI-56128

Design Code: 49BD0069A

Type: KS

Frame: 447TS

Phases: 3

Poles: 2

Output Power: 200HP 149.1KW

RPM: 3575

Voltage: 460

Hertz: 60

Amps - FL: 213.0

Service Factor: 1.15

Alt Service Factor: --

Estimated Weight: 2650 Lbs

Time Rating: CONT

Enclosure: TEFC

Encl Construction: X\$D

Ambient Max(°C): 40

Alt Ambient Max(°C): --

Insulation Class: H

NEMA Design: B

Nominal Efficiency: 95.4%

Guaranteed Efficiency: 95.0%

KVA Code: G

Max KVAR: 30.9

Power Factor: 92.0

Bearing - DE: 6314ZC3

Bearing - ODE: 6314ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

TEMP CONT HTR LDS H 115V 125W
ROT CW FACING ODE LEAD/PH SEQ 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
CONST HP RANGE 61-63HZ
MAX EXPOSED INTERNAL AND EXTERNAL SURFACE
TEMPERATURES UNDER USUAL SERVICE CONDITIONS
AT 1.00 S.F. DO NOT EXCEED 200 DEG C
MAX SPACE HEATER SURFACE TEMPERATURE 160 DEG C
STAMP NP249A5499AP AS BELOW:
MODEL:5KS447SAA168 S/N: XXX
EX NA IIC - GC CSA.09.2216219
CLASS I, ZONE 2, AEX NA IIC --
CLASS I, DIV 2, GROUPS A, B, C, D T3
-40C <= TAMB <= 40C

Additional Information:

2P - TS EXTN - SPLIT LEAD
CW ROTATION FACING OPPOSITE DRIVE END



Motors

Wednesday, November 12, 2014

**Technical Data Center
PO Box 2204
Fort Wayne, IN 46801-2204**

**Customer: GE OIL & GAS ESP, INC (I
5500 S.E. 59TH ST.
OKLAHOMA CITY, OK 73135**

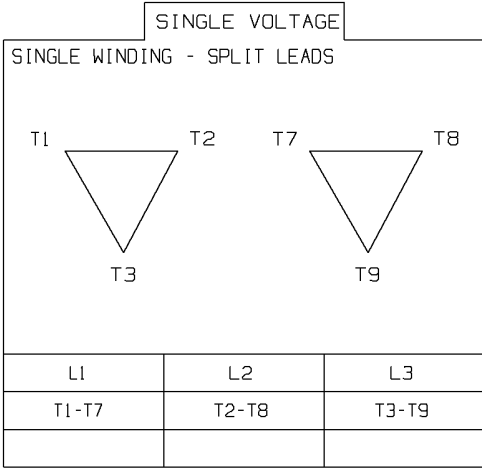
DataPack Document, Version: v14118594.01 Courtesy of EliteNET

700 CU IN - 3.00" NPT
OIL RESISTANT SLEEVING ON LEADS
115V TSTAT CTRLD HTR LDS TO CONDUIT ELBOW
F1 MOUNTING
PLASTIC THREADED PLUGS FOR ALL CONDUIT OPENINGS
PROVISION FOR BTD ON DE-ODE ENDSHIELD AND FOR
RTDS, ACCESSORY BOX PROVISION ON STATOR FRAME PLUGGED
WITH METALLIC PLUG & APPLY TIGHT SEAL(A50CD427A)

Diagrams for Model: 5KS447SAA168A

Marks:

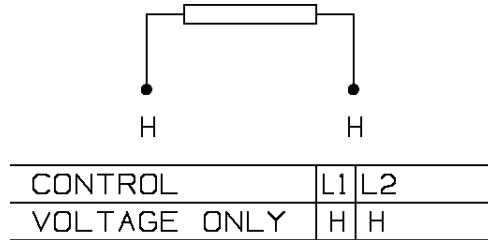
**Connection Diagram
GEM2034E-FIG20**



Heater Connection

3027JE-1

FIG. 1
HEATER CONN.



Performance Characteristics

1st Winding 1st Connection

Design: 49BD0069A

Marks:

LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	94.98	95.19	95.40	95.64	95.28	92.91	0.00
% PF	91.52	91.76	92.00	91.08	87.58	73.48	7.21
AMPS	269.18	246.46	213.00	161.17	112.16	68.54	43.11

TORQ(FL)#FT 293.50 **TORQ(LR)%FL** 153.03 **TORQ(BD)%FL** 282.63
AMPS(LR) 1360.27 **PF AT START** 0.23

This motor is capable of two cold or one hot start with a maximum connected load inertia of 578.0 Lb-Ft Sq (24.4 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 29 seconds. Safe stall time at 100% voltage is 71 seconds cold, 34 seconds hot. Rotor inertia is 43.07 Lb-Ft Sq (1.815 Kg-meter Sq).

Open Circuit A-C: 2.136

Short Circuit D-C: 0.034

Short Circuit A-C: 0.070

X/R Ratio: 12.747

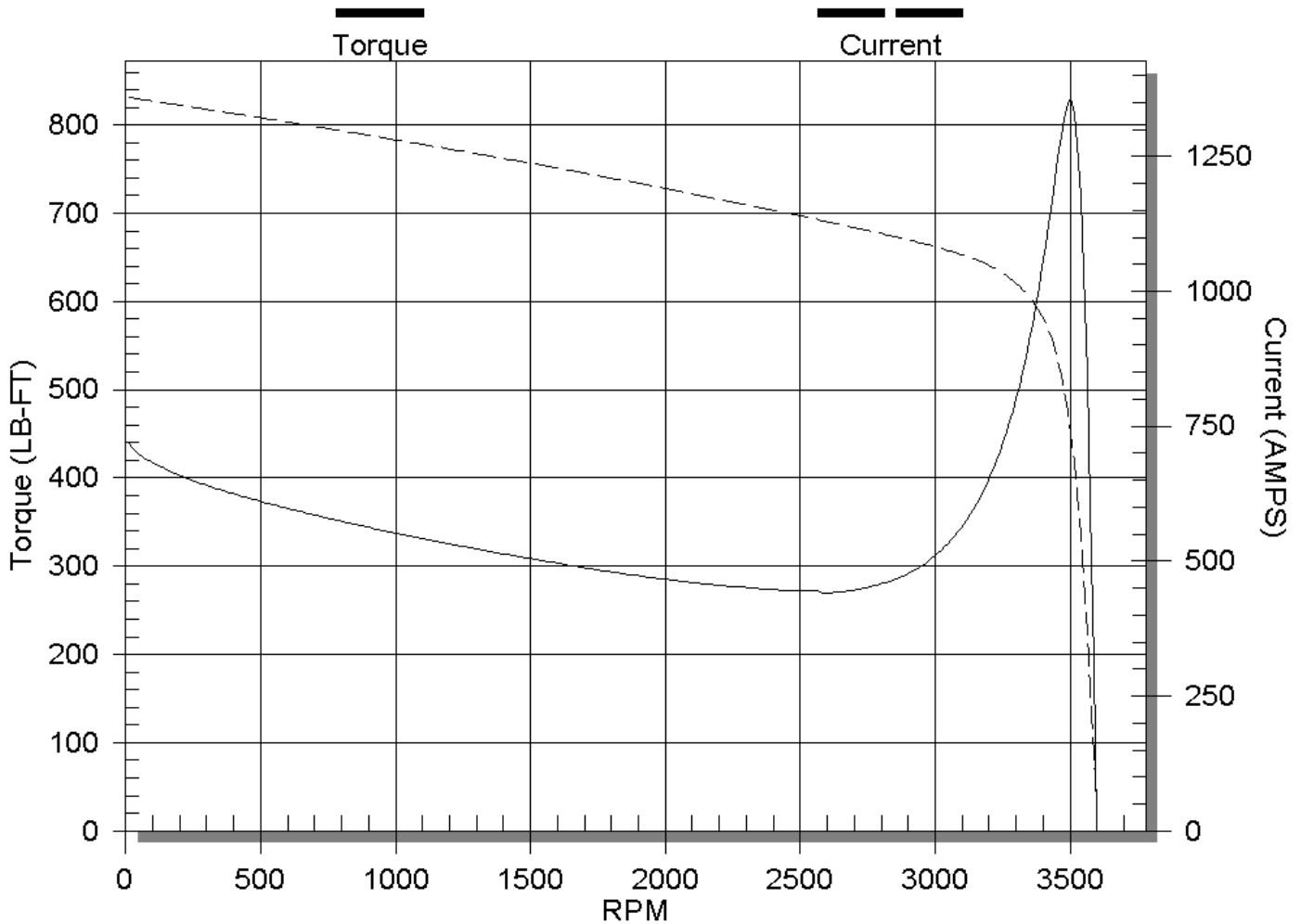
Stator Slots: 48

Rotor Slots: 38

Model Number: 5KS447SAA168A

Design: 49BD0069A

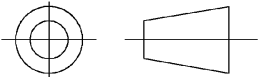
Speed Torque Current Curve (First Connection, First Speed)



MMarks:

THIRD ANGLE PROJECTION

REVISIONS



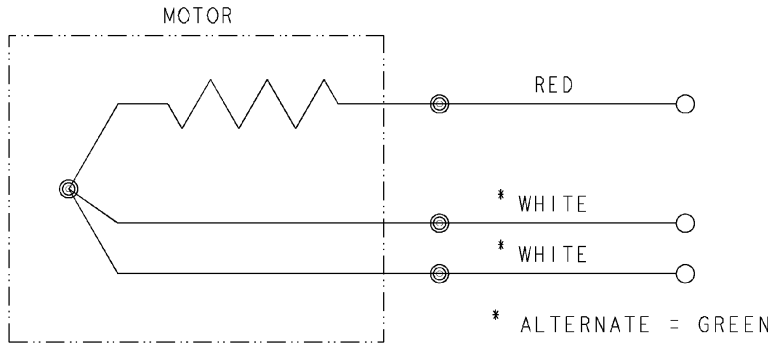
REV	DESCRIPTION	DATE	APPROVED
1	ISAAC #12-1124	HARI 11/19/12	KARTHIK

REV 1
SH 1
DWG NO 235A3027NA
SIZE A

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:		
	CAD NO. F500:235A3027NA	
APPLIED PRACTICES:		



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