

Product Information Packet

May 12, 2017

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

Model Number:	5KS447XAJ6408A
Catalog Number:	V4830
Instruction Manual:	GEK-95350
Connection Diagram:	GEM2034E-FIG7
Outline Drawing:	148CB49INJRCCLA0001

Accessory Connection Diagrams			
Bearing Thermocouple:	None	Heater:	None
RTD:	None	Thermistor:	None
Thermostat:	None	Winding Thermocouple:	None
Bearing RTD:	None		

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Marks:

MODEL NUMBER:	5KS447XAJ6408A	Estimated Weight:	3300 Lbs
Outline Drawing:	148CB49INJRCCLA0001	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG7	Enclosure:	TEFC
Instruction Book:	GEK-95350	Encl Construction:	841
Design Code:	49BD1177AC	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	L447VP20	Insulation Class:	H
Phases:	3	NEMA Design:	B
Poles:	4	Nominal Efficiency:	96.2 %
Output Power:	200HP 148KW	Guaranteed Efficiency:	95.4
RPM:	1790	3/4 Load Efficiency:	--
Voltage:	460	KVA Code:	G
Hertz:	60	Max KVAR:	43.5
Amps - FL:	220.0	Power Factor:	89.0
Service Factor:	1.15	Bearing - DE:	6217C3
Alt Service Factor:	--	Bearing - ODE:	235A2536AB01

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

DE BRG 85BC02J30, ODE BRG 130BT03MD00
 INVERTER DUTY PER NEMA MG1 PART 31
 ALTERNATE RATING FOR PWM CONTROL:1.0SF 40C AMBIENT
 VAR TORQUE RANGE 0-60 HZ
 EXCEPTIONS TO IEEE-STD-841-2009:
 ALUMINIUM FAN BACK PLATE
 GE SELF DECLARED CLASS I DIV 2 MOTOR
 MAX EXPOSED INTERNAL AND EXTERNAL SURFACE
 TEMPERATURES UNDER USUAL SERVICE CONDITIONS
 AT 1.00 S.F. DO NOT EXCEED 200 DEG C
 API 610 12TH EDITION SHAFT DIMENSIONS

Additional Information:

4P, VERT SOLID SHAFT HIGH THRUST (1D)
 PAINTED FRAME ID & SHAFT,
 FAN COVER INSIDE & ODE E/S OUTSIDE
 700 CU IN - 3.00" NPT WITH DRAIN HOLES
 INPRO SEAL DE ONLY
 OIL RESISTANT SLEEVING ON LEADS
 ROUTINE TEST REPORT AND 5 POINT VIBRATION TEST
 REPORT INCLUDED IN C/B
 ROYAL GREEN FINAL PAINT
 COPPER WASHER UNDER HEADS OF BEARING CAP BOLTS,
 APPLY TITE-SEAL (A50CD427A) ON BEARING CAP SCREWS,
 RABBETS AND PLUG THREADS.
 STAINLESS STEEL T-DRAIN.
 GROUND PAD

BEARING LIFE 8760 HRS AT 12308 LB THRUST
BEARING LIFE 26280 HRS AT 8981 LB THRUST
CG:26.4 IN FROM P-BASE FACE,STAT DEF:0.00463 IN
RCF:2759 CPM AT C/BOX SIDE, 2759 CPM AT
90 DEG FROM C/ BOX SIDE

Performance Characteristics

1st Winding 1st Connection

Design: 49BD1177AC

Marks:

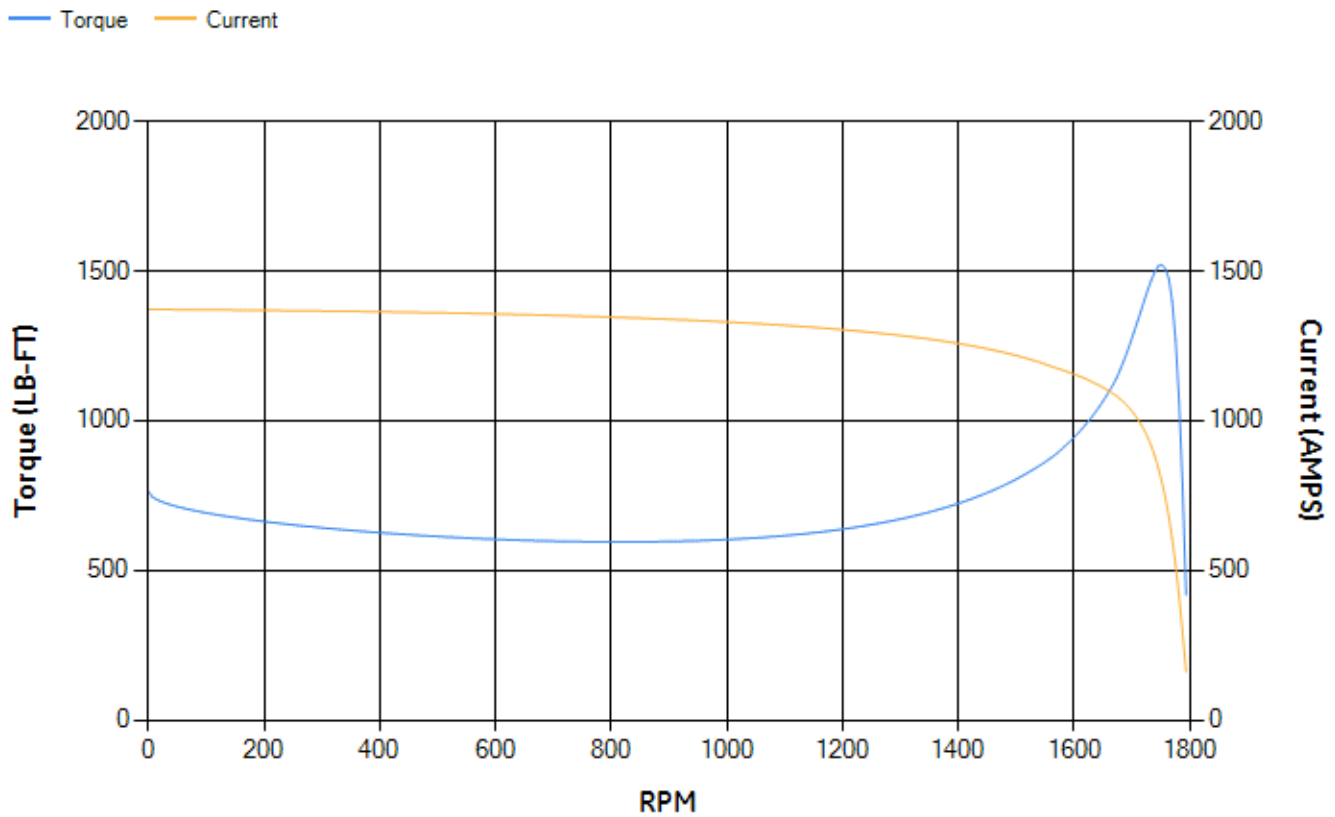
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	95.24	95.46	95.93	95.98	95.74	93.74	0.00
% PF	89.2	89.18	88.79	86.7	80.56	61.36	4.37
AMPS	275.39	252.87	219.77	168.71	121.35	81.36	60.61

TORQ(FL)#FT	586.57	TORQ(LR)%FL	130.07	TORQ(BD)%FL	259.11
AMPS(LR)	1371.63	PF AT START	0.25		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 4664 Lb-Ft Sq (196.35 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 54 seconds. Safe stall time at 100% voltage is 163 seconds cold, 83 seconds hot. Rotor inertia is 106.11 Lb-Ft Sq (4.47 Kg-meter Sq).

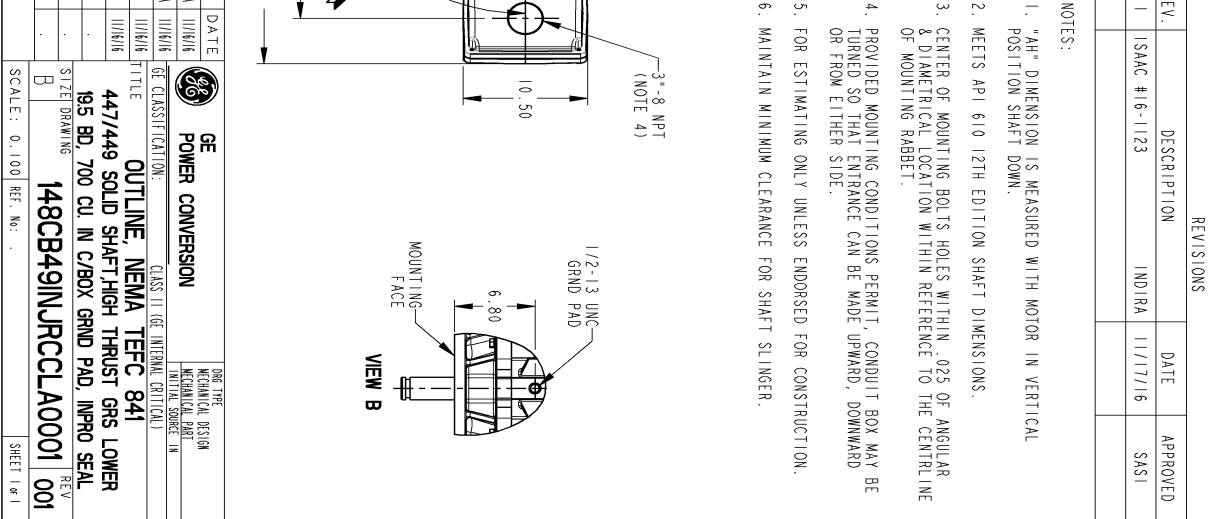
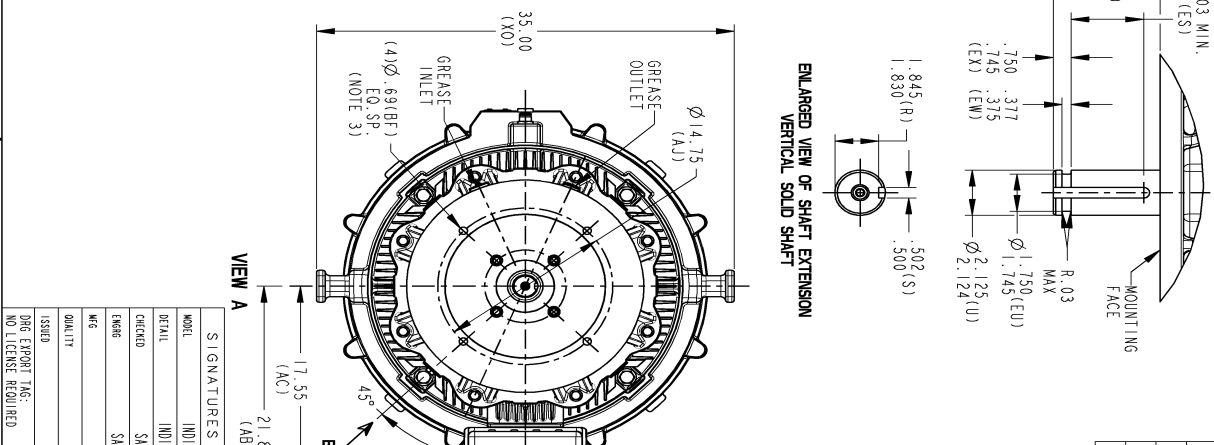
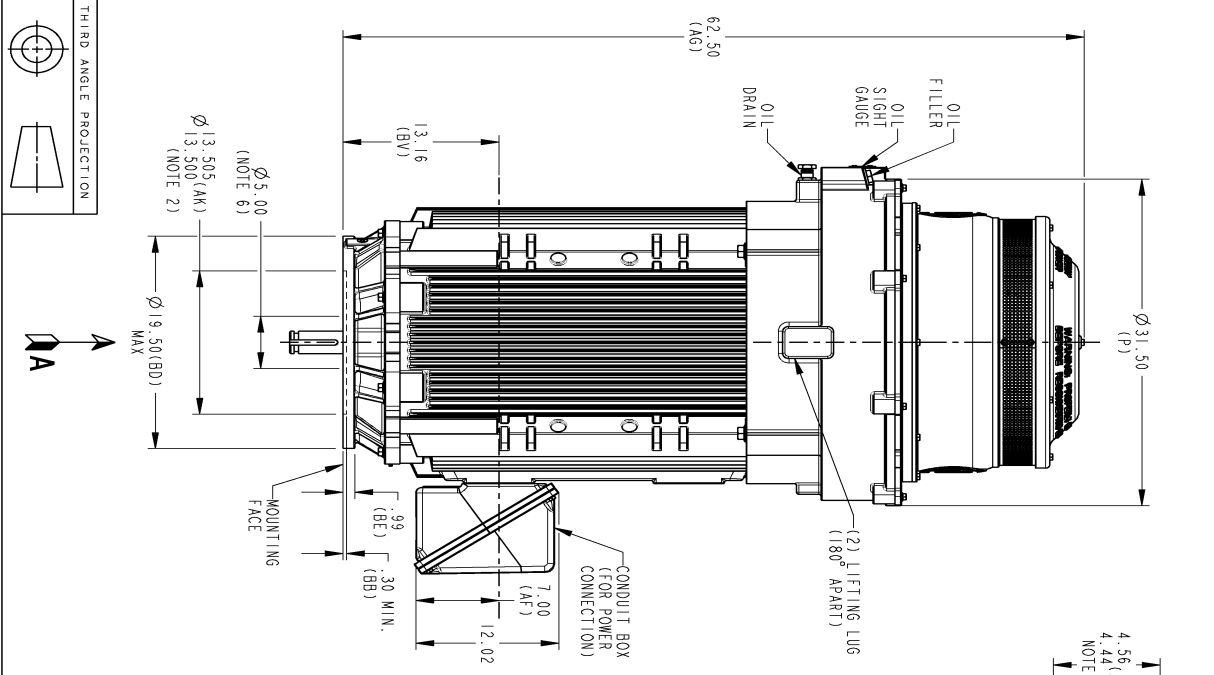
Open Circuit A-C:	1.746	Short Circuit D-C:	0.027
Short Circuit A-C:	0.069	X/R Ratio:	10.237
Stator Slots:	72	Rotor Slots:	58

Speed Torque Current Curve (First Connection, First Speed)



Marks:

SOLID MODEL: 148CB491NJRCLA0001



THIRD ANGLE PROJECTION

REV.	DESCRIPTION	DATE	APPROVED
1	ISAC #16-1123	11/17/16	SASI

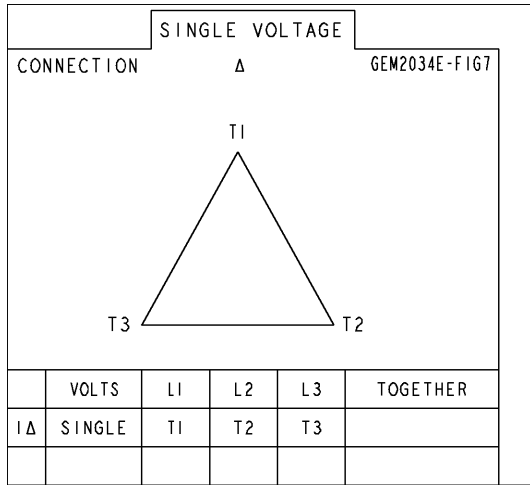
- NOTES:
1. "AH" DIMENSION IS MEASURED WITH MOTOR IN VERTICAL POSITION SHAFT DOWN.
 2. MEETS API 610 12TH EDITION SHAFT DIMENSIONS.
 3. CENTER OF MOUNTING BOLTS HOLES WITHIN .025 OF ANGULAR & DIAMETRICAL LOCATION WITHIN REFERENCE TO THE CENTRAL LINE OF MOUNTING RABBIT.
 4. PROVIDED MOUNTING CONDITIONS PERMIT, CONDUIT BOX MAY BE TURNED SO THAT ENTRANCE CAN BE MADE UPWARD, DOWNWARD OR FROM EITHER SIDE.
 5. FOR ESTIMATING ONLY UNLESS ENDORSED FOR CONSTRUCTION.
 6. MAINTAIN MINIMUM CLEARANCE FOR SHAFT SLINGER.

SIGNATURES	DATE	REV	SHEET
DESIGNER: INDIRA IJH/16	11/17/16	001	1
DRAWN: SASI IJH/16			
CHECKED: SASI IJH/16			
ENG'G: SASI IJH/16			
QUALITY: .			
ISSUED: .			
DWG EXPORT TAG: NO LICENSE REQUIRED			

GE POWER CONVERSION
 CLASS II, OGT, INTERNAL COILS IN MECHANICAL DESIGN
 TITLE: OUTLINE, NEMA TEC 841
 447/449 SOLID SHAFT-HIGH THRUST GRS LOWER
 195 BD, 700 CU IN C/BOX GRAND PAD, INPRO SEAL
 SIZE: DRAWING 148CB491NJRCLA0001
 SCALE: 0.100 REF. No. .

Marks:

Connection Diagram
GEM2034E-FIG7



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	115E8661AA1	115E8670LA1
Bearing	235A2522AJ01	235A2536AB01
Slinger/Inproseal	235A4575GS4	

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	153B1886G03
Fan Cover	128D6847AA1

Conduit & Accessories Box Assembly	
Part Description	Part#
Conduit Box	118D4408DG2

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

