

Product Information Packet

January 12, 2017

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

Model Number:	5KS513EAG304A
Catalog Number:	P282
Instruction Manual:	GEI-100351
Connection Diagram:	GEM2034E-FIG2
Outline Drawing:	50DP4181G104DBV

Accessory Connection Diagrams			
Bearing Thermocouple:	None	Heater:	3027JE-1C
RTD:	235A3027XC	Thermistor:	None
Thermostat:	None	Winding Thermocouple:	None
Bearing RTD:	None		

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Marks:

MODEL NUMBER:	5KS513EAG304A	Estimated Weight:	5850 Lbs
Outline Drawing:	50DP4181G104DBV	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG2	Enclosure:	WP11
Instruction Book:	GEI-100351	Encl Construction:	OPEN
Design Code:	50ED3257E	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	XX
Frame:	5013S	Insulation Class:	F
Phases:	3	NEMA Design:	-
Poles:	6	Nominal Efficiency:	95.8 %
Output Power:	900HP 666KW	Guaranteed Efficiency:	95.0
RPM:	1190	3/4 Load Efficiency:	96.5
Voltage:	2300/4000	KVA Code:	F
Hertz:	60	Max KVAR:	252.4
Amps - FL:	215.6/124.0	Power Factor:	81.5
Service Factor:	1.15	Bearing - DE:	6320ZC3
Alt Service Factor:	XX	Bearing - ODE:	6320ZC3

Enclosure is Weather Protected Two

Stamped Nameplate Notes:

NEMA ENCLOSURE WP-II, CSA ENCL DP
 GE SELF DECLARED CLASS I DIV 2 MOTOR
 MAX EXPOSED INTERNAL AND EXTERNAL SURFACE
 TEMPERATURES UNDER USUAL SERVICE CONDITION
 AT 1.00 S.F. DO NOT EXCEED 215 DEG C
 VIBRATION LIMIT = 0.150 IN/SEC
 TEMP CONT HTR LDS HE1-HE2 115V 200W
 OFFSET CORE - DO NOT ASSEMBLE F2
 MAXIMUM SPACE HEATER SURFACE
 TEMPERATURE 160 DEG C

Additional Information:

6 POLE, S SHAFT EXTN
 FORMED COIL
 COPPER BAR ROTOR
 (2)GROUND BOLTS ON FRAME
 TEMP CONTRL 115V HEATER LEADS TO ACC BOX
 100 OHM WINDING RTD LEADS TO ACC BOX
 SUGGESTED WINDING RTD SETTINGS
 ALARM 165C TRIP 175C
 PROVISION FOR BEARING RTD BOTH ENDS
 SUGGESTED BEARING RTD SETTINGS,IF PROVIDED
 ALARM 115C TRIP 125C
 PROVISION FOR JACK SCREWS
 2500 Cu. In. CBOX

Performance Characteristics

1st Winding 1st Connection

Design: 50ED3257E

Marks:

LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	95.39	95.69	96.27	96.52	96.58	95.4	0.00
% PF	81.63	81.81	82.79	78.75	70.68	49.21	2.13
AMPS	155.51	142.31	121.36	95.59	70.95	51.58	40.48

TORQ(FL)#FT 3967.99
AMPS(LR) 671.92

TORQ(LR)%FL 82.37
PF AT START 0.19

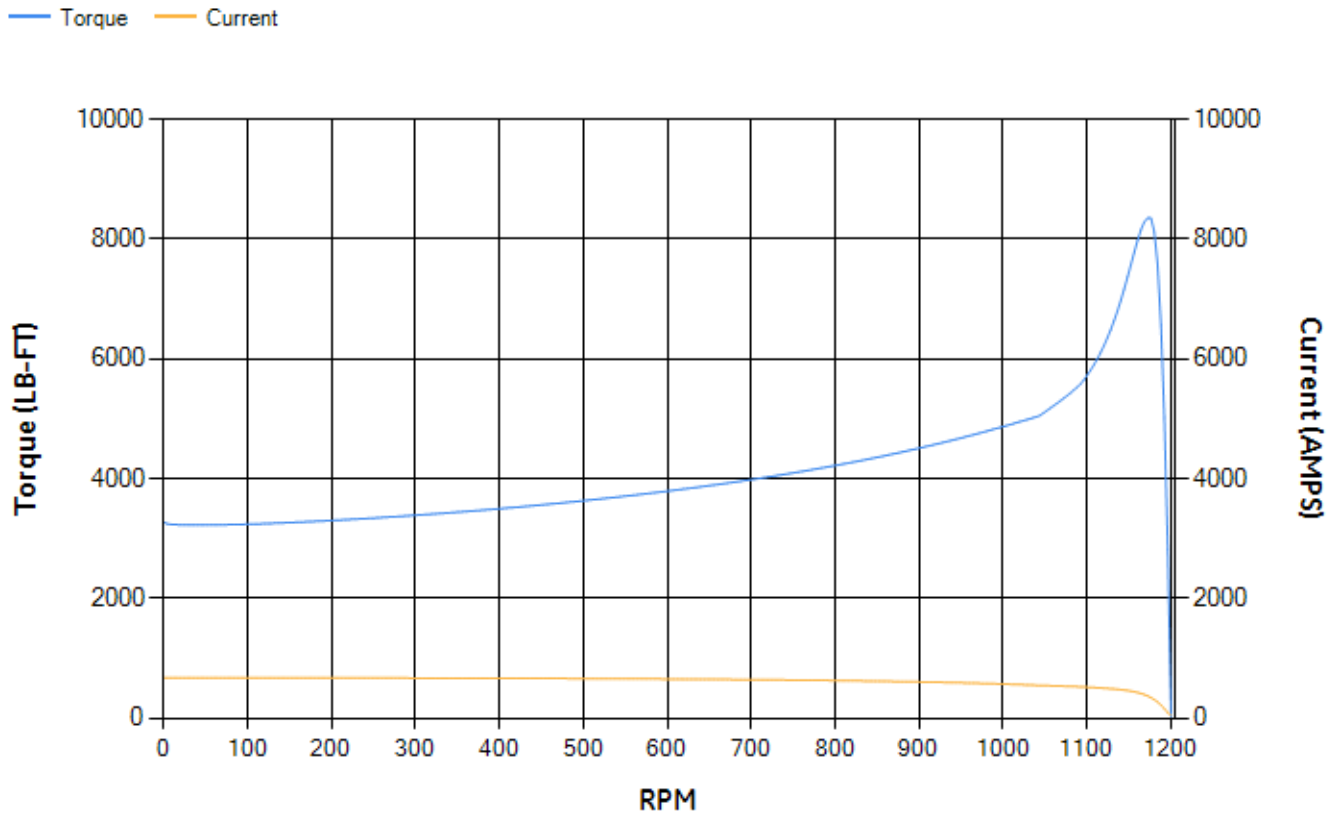
TORQ(BD)%FL 209.73

This motor is capable of two cold or one hot start with a maximum connected load inertia of 4631 Lb-Ft Sq (194.97 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 7 seconds. Safe stall time at 100% voltage is 60 seconds cold, 19 seconds hot. Rotor inertia is 283.31 Lb-Ft Sq (11.93 Kg-meter Sq).

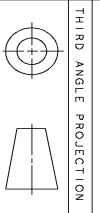
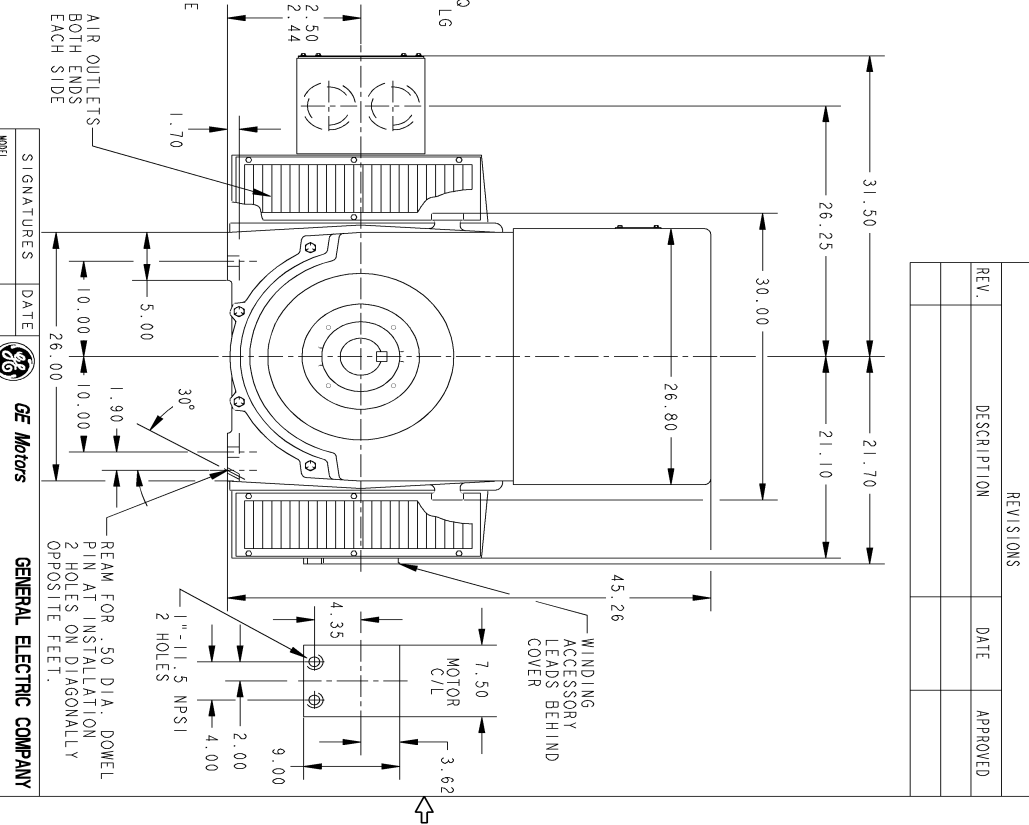
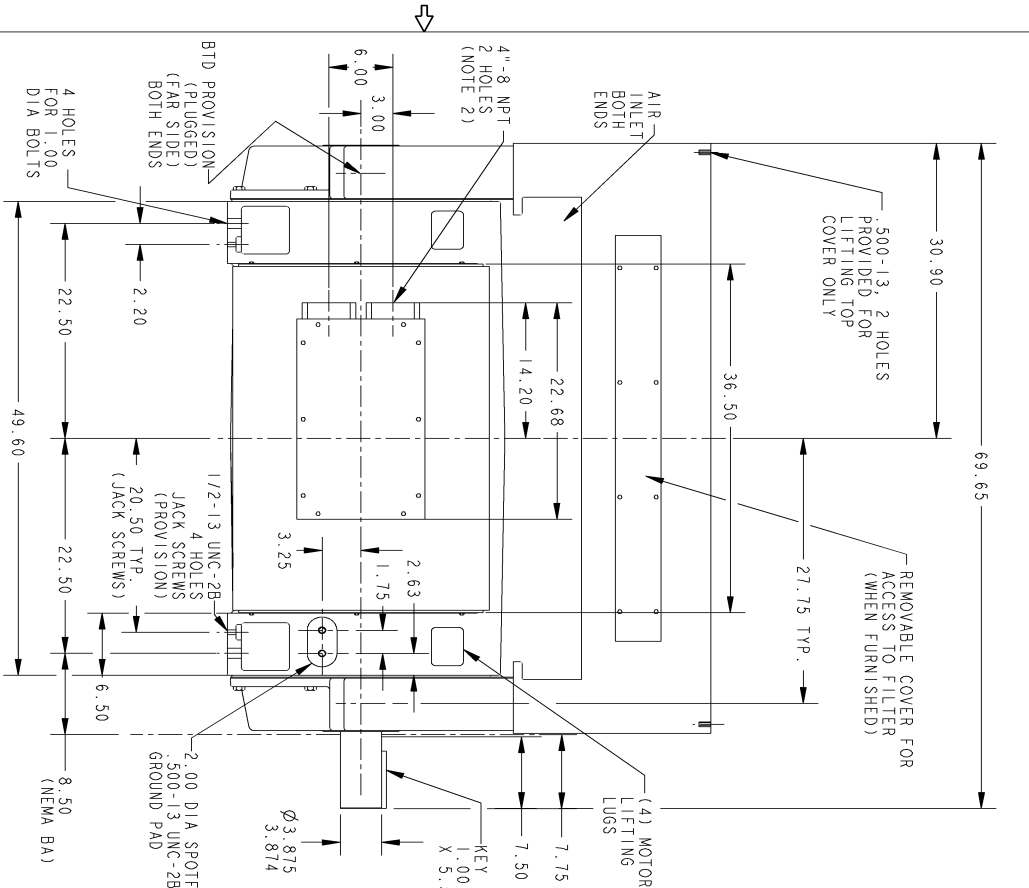
Open Circuit A-C: 1.034
Short Circuit A-C: 0.057
Stator Slots: 72

Short Circuit D-C: 0.027
X/R Ratio: 10.333
Rotor Slots: 58

Speed Torque Current Curve (First Connection, First Speed)



Marks:



THIRD ANGLE PROJECTION

NOTES: 1 F-1 ASSEMBLY SHOWN. F-2 ASSEMBLY HAS CONDUIT BOX LOCATED ON OPPOSITE SIDE.
2 CONDUIT BOX MAY BE TURNED SO THAT ENTRANCE CAN BE MADE UPWARDS, DOWNWARDS, OR FROM EITHER SIDE WHEN DOWNWARD, ENTRANCE IS BELOW THE FOOT.

SIZE DRAWING NO. B

50DP418IG104DBV

REV SHEET 0 1

REV.	DESCRIPTION	DATE	APPROVED

GE Motors
GENERAL ELECTRIC COMPANY

MODEL	SAGAR K 09/30/16	SIGNATURES	DATE
DETAIL	HARESHAM 09/30/16		
CHECKED	SAGAR K 09/30/16		
ENGR	SAGAR K 09/30/16		
QC			
ISSUED	SAGAR K 09/30/16		
SOLID MODEL MODEL NAME			

TITLE
OUTLINE
500S WPI 2500 CU IN CONDUIT BOX ACC BOX
BRG RTD/TC PROV. GROUND PAD JACK SCREWS PROV.
50DP418IG104DBV
SCALE: .09 REF. No.: 50DP4106G001DBV SHEET 1 OF 1

Marks:

Connection Diagram
GEM2034E-FIG2



Heater Connection
3027JE-1C

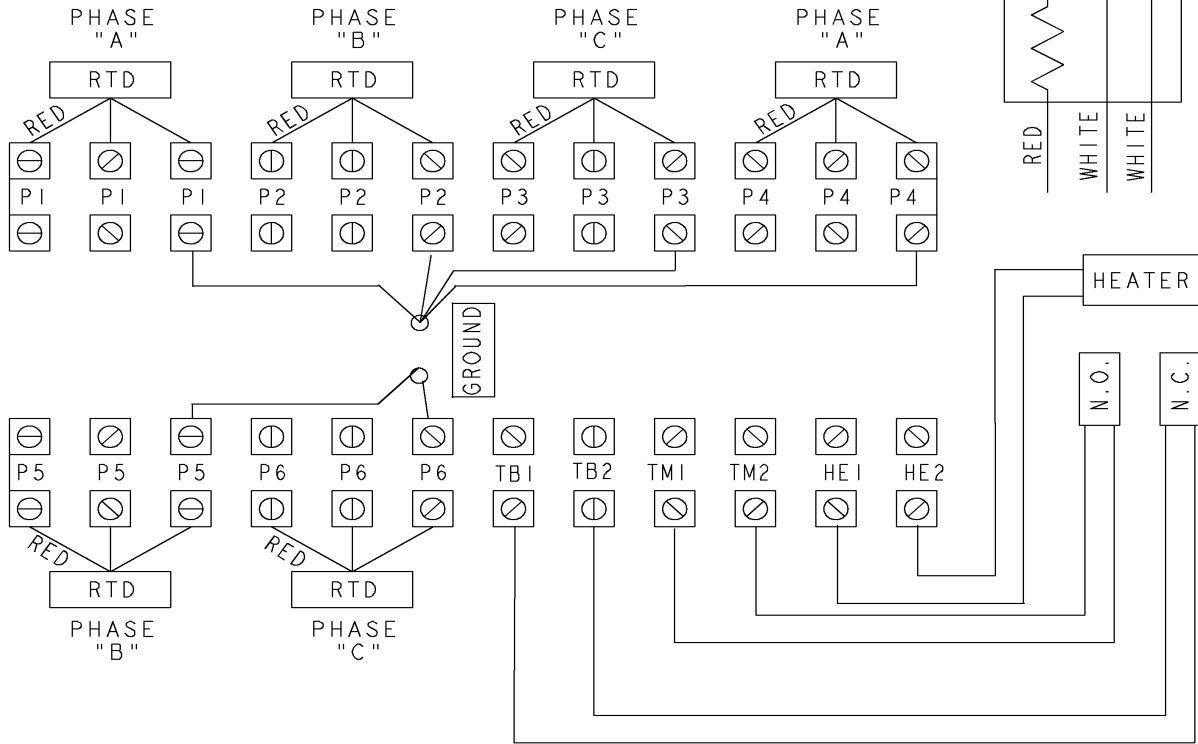


SHEET 0
REV 0
235A3027XC
A
SIZE DRAWING NO.

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED

THIRD ANGLE PROJECTION



- NOTE 1: TERMINAL LABELS ARE PROVIDED FOR ACCESSORIES THAT MAY OR MAY NOT BE INCLUDED WITH THE MOTOR.
- NOTE 2: SPARE RTDS (P7 & P8) FURNISHED IN CASE OF FAILURE IN OTHER RTDS (P1-P6). PHASE LOCATION WILL DEPEND UPON NUMBER OF POLES WINDING CONFIGURATION.
- NOTE 3: IT IS RECOMMENDED THAT RTDS BE GROUNDED AT EITHER THE MACHINE OR CONNECTED TO A GROUNDED CONTROL CIRCUIT. FOR PROPER OPERATION DO NOT GROUND AT THE MACHINE IF CONNECTED TO A GROUND CIRCUIT AT THE CONTROL.

Part must conform to SI 900000 Sect. 4, Toxicity Procedure

FOR ADDITIONAL INFO REFER TO:	SIGNATURES	DATE
APPLIED PRACTICES	MODEL	
DIMENSIONS ARE IN INCHES	DETAIL VIVEK	01/08/15
TOLERANCE ON:	CHECKED KARTHIK	01/08/15
1 PL DECIMALS ± 0.1	ENGRG	
2 PL DECIMALS ± 0.02	MFG	
3 PL DECIMALS ± 0.005	QUALITY	
ANGLES ± 0.5	ISSUED VIVEK	01/08/15
FRACTIONS ±		
FINISH ✓		
MATERIAL	SOLID MODEL: MODEL NAME	

GE Motors GENERAL ELECTRIC COMPANY

TITLE: **CONNECTION DIAGRAM**
IEC
WINDING RTD'S & T'STATS & HEATERS

SIZE DRAWING: A
REV: 0

235A3027XC

SCALE: NA SHEET 1 of 1

End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	119D1866AN1	119D1866AP1
Bearing	235A2523AF03	235A2523AF03
Slinger/Inproseal	235A2300HC1	

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	
Fan Cover	

Conduit & Accessories Box Assembly	
Part Description	Part#
Conduit Box	179B9025G01

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

