

# Product Information Packet

January 12, 2017

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

<b>Model Number:</b>	<b>5KS513EAG106A</b>
<b>Catalog Number:</b>	<b>P483</b>
<b>Instruction Manual:</b>	GEI-100351
<b>Connection Diagram:</b>	GEM2034E-FIG2
<b>Outline Drawing:</b>	50DP4118G001DBV

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

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**Marks:**

<b>MODEL NUMBER:</b>	<b>5KS513EAG106A</b>	<b>Estimated Weight:</b>	5850 Lbs
<b>Outline Drawing:</b>	50DP4118G001DBV	<b>Time Rating:</b>	CONT
<b>Connection Diagram:</b>	GEM2034E-FIG2	<b>Enclosure:</b>	WP11
<b>Instruction Book:</b>	GEI-100351	<b>Encl Construction:</b>	OPEN
<b>Design Code:</b>	50ED0127E	<b>Ambient Max(°C):</b>	40
<b>Type:</b>	KS	<b>Alt Ambient Max(°C):</b>	XX
<b>Frame:</b>	5013ST	<b>Insulation Class:</b>	F
<b>Phases:</b>	3	<b>NEMA Design:</b>	-
<b>Poles:</b>	2	<b>Nominal Efficiency:</b>	95.0 %
<b>Output Power:</b>	1000HP 740KW	<b>Guaranteed Efficiency:</b>	94.1
<b>RPM:</b>	3570	<b>3/4 Load Efficiency:</b>	95.9
<b>Voltage:</b>	2300/4000	<b>KVA Code:</b>	F
<b>Hertz:</b>	60	<b>Max KVAR:</b>	112.9
<b>Amps - FL:</b>	213.9/123.0	<b>Power Factor:</b>	92.0
<b>Service Factor:</b>	1.15	<b>Bearing - DE:</b>	SLEEVE
<b>Alt Service Factor:</b>	XX	<b>Bearing - ODE:</b>	SLEEVE

**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 200 DEG C  
 VIBRATION LIMIT = 0.150 IN/SEC  
 TEMP CONTRL HTR LDS HE1-HE2 115V 200W  
 OFFSET CORE - DO NOT ASSEMBLE F2  
 MAXIMUM SPACE HEATER SURFACE  
 TEMPERATURE 160 DEG C

**Additional Information:**

2 POLE, ST SHAFT EXTN  
 FORMED COIL  
 SLEEVE BEARINGS  
 (2)GROUND BOLTS ON FRAME  
 TEMP CONTRL 115V HEATER LEADS & 100 OHM  
 WINDING RTD LEADS TO ACCESSORY BOX  
 SUGGESTED WINDING RTD SETTINGS  
 ALARM 165C TRIP 175C  
 PROVISION FOR BEARING RTD BOTH ENDS  
 SUGGESTED BEARING RTD SETTINGS,IF PROVIDED  
 ALARM 90C TRIP 100C  
 PROVISION FOR JACK SCREWS  
 2500 Cu. In. CBOX

**Performance Characteristics**

1st Winding 1st Connection

**Design: 50ED0127E**

**Marks:**

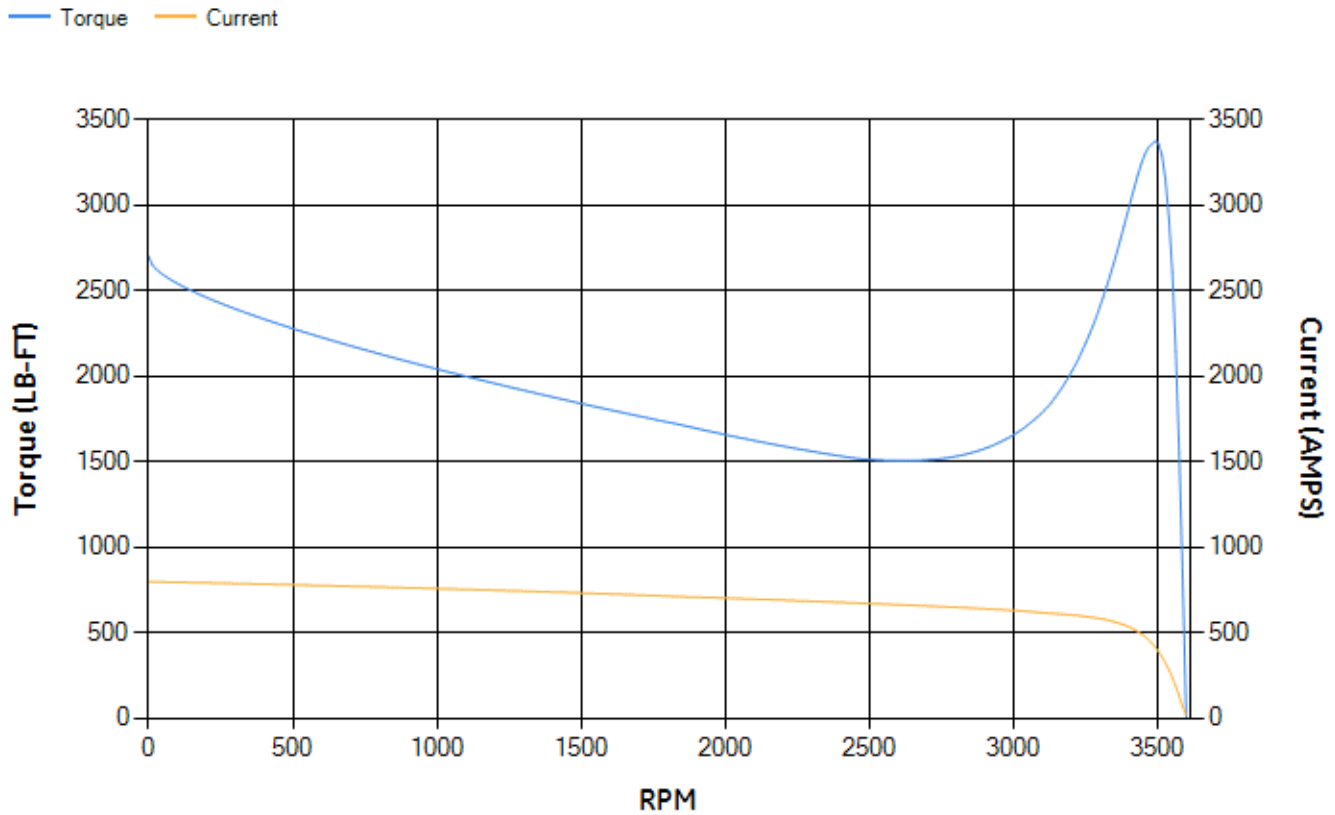
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	94.98	95.24	95.78	95.95	95.86	94.14	0.00
% PF	91.13	91.61	93.85	92.04	89.75	78.29	7.69
AMPS	155.44	141.86	119.69	91.41	62.55	36.51	18.1

<b>TORQ(FL)#FT</b>	1471.19	<b>TORQ(LR)%FL</b>	183.48	<b>TORQ(BD)%FL</b>	227.63
<b>AMPS(LR)</b>	797.58	<b>PF AT START</b>	0.28		

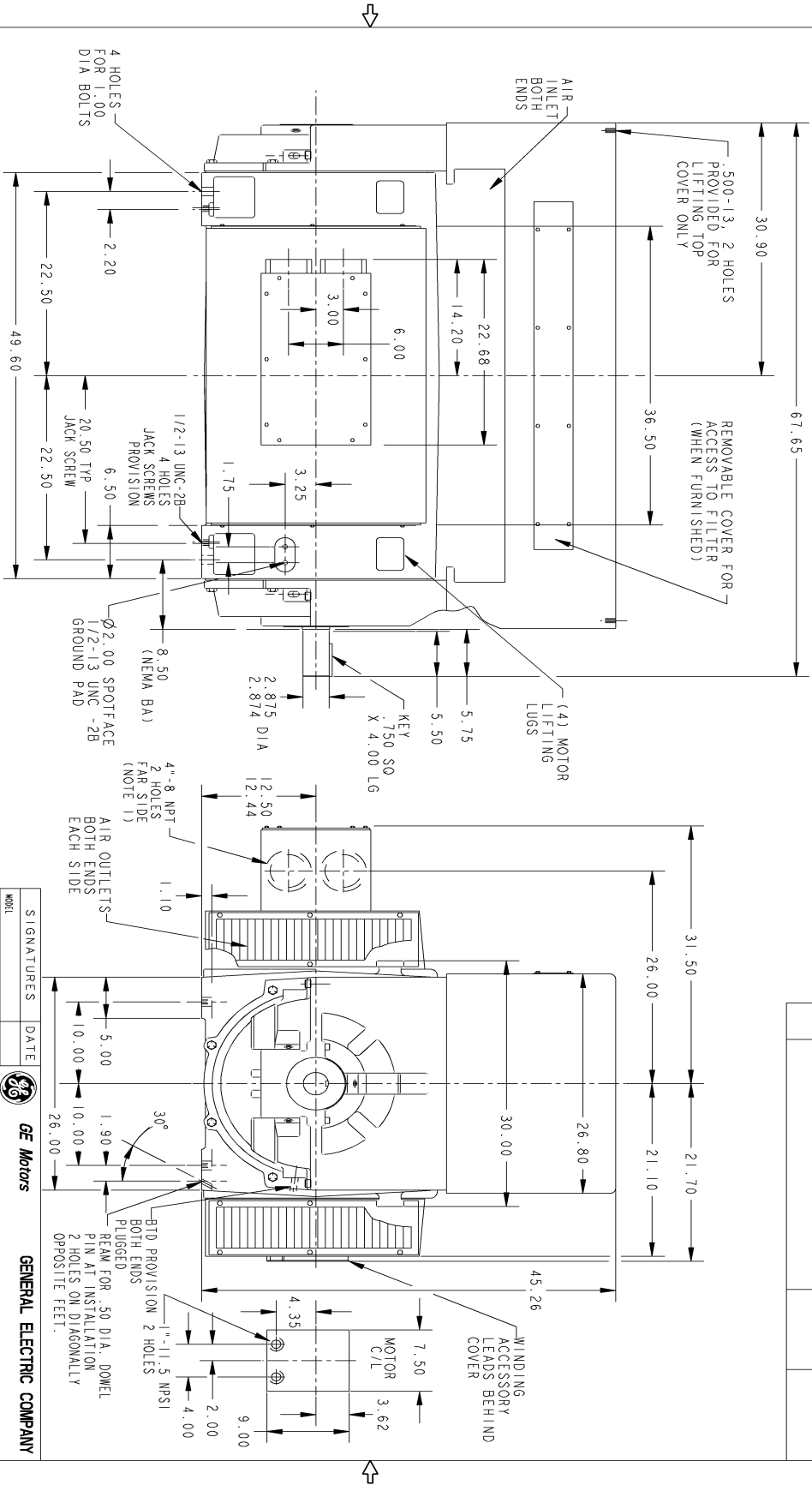
This motor is capable of two cold or one hot start with a maximum connected load inertia of 882 Lb-Ft Sq (37.13 Kg-meter Sq) at 100% voltage, where the load torque varies with the square of the speed. Acceleration time with maximum inertia and the above load type is 8 seconds. Safe stall time at 100% voltage is 26 seconds cold, 13 seconds hot. Rotor inertia is 172.1 Lb-Ft Sq (7.25 Kg-meter Sq).

<b>Open Circuit A-C:</b>	2.063	<b>Short Circuit D-C:</b>	0.027
<b>Short Circuit A-C:</b>	0.044	<b>X/R Ratio:</b>	10.162
<b>Stator Slots:</b>	48	<b>Rotor Slots:</b>	40

**Speed Torque Current Curve (First Connection, First Speed)**



Marks:

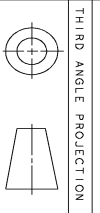


NOTES: 1 F-1 ASSEMBLY SHOWN, F-2 ASSEMBLY HAS CONDUIT BOX LOCATED ON OPPOSITE SIDE.  
 2 CONDUIT BOX MAY BE TURNED SO THAT ENTRANCE CAN BE MADE UPWARDS, DOWNWARDS, OR FROM EITHER SIDE WHEN DOWNWARD, ENTRANCE IS BELOW THE FOOT.

REV.	DESCRIPTION	DATE	APPROVED

SIZE DRAWING NO. **B** REV. SHEET **0** | **50DP4118G001DBV**

REVISIONS



THIRD ANGLE PROJECTION

SIGNATURES	DATE
RAJU K. 09/12/16	
VIVEK. 09/12/16	
VIVEK. 09/12/16	
RAJU K. 09/12/16	

MODEL	5013
DETAIL	OUTLINE
DESIGN	5013 ST WPI SLEEVE BRG, JACKSCREW PROV.
ENGR	2500 CULC/B ACC BOX, GROUND PAD, BTD PROV.
QC	
ISSUED	
SOI ID MODEL NAME	50DP4118G001DBV

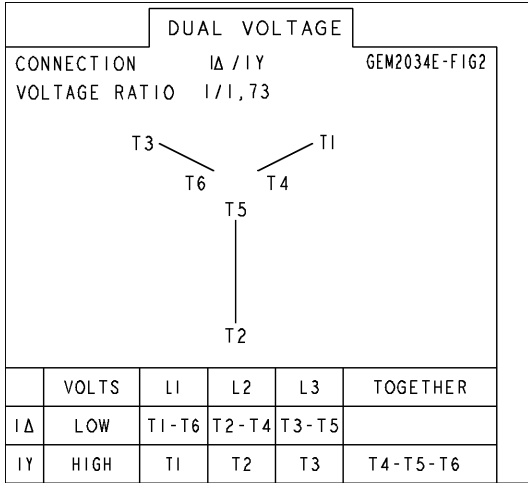
GE Motors GENERAL ELECTRIC COMPANY

SCALE: .09

SHEET 1 OF 1

Marks:

**Connection Diagram**  
**GEM2034E-FIG2**



**Heater Connection**  
**3027JE-1C**

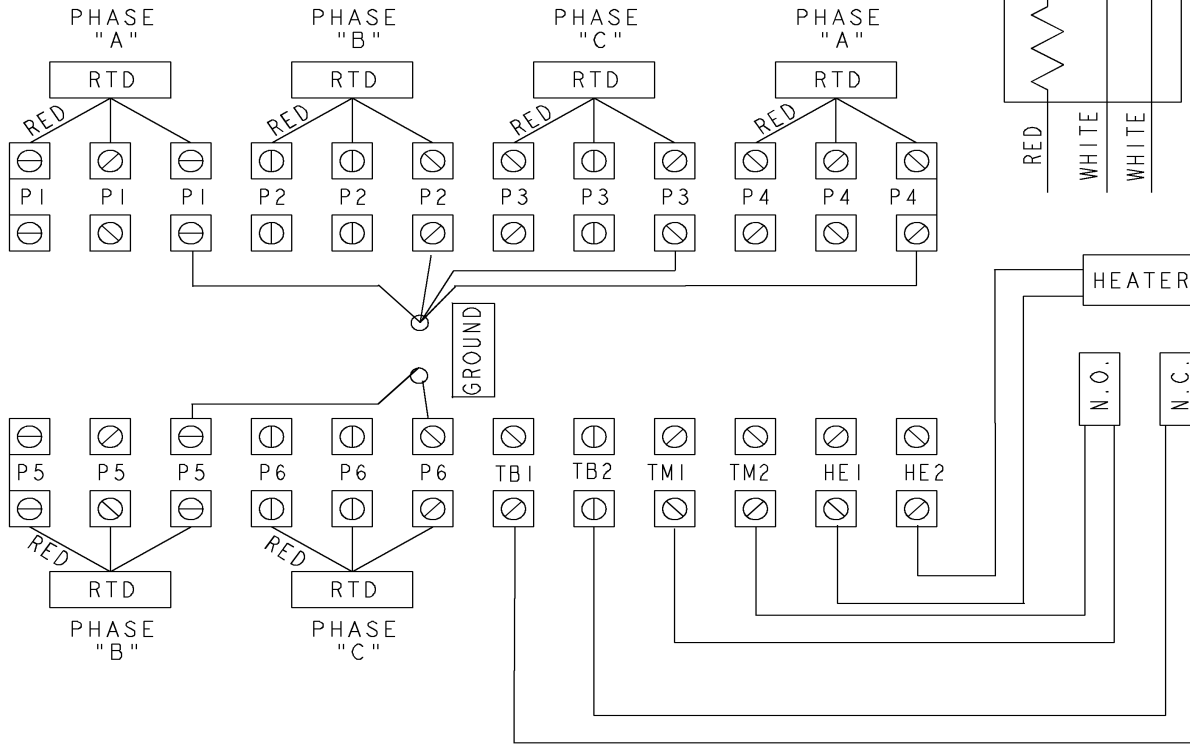
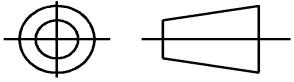


SHEET 0  
REV 0  
235A3027XC  
SIZE DRAWING NO. A

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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  
235A3027XC  
REV 0

SCALE: NA  
SHEET 1 of 1

End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	119D1878BY2	119D1878BK1
Bearing	153B4435AE-G01	153B4435AE-G01
Slinger/Inproseal		

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	

