Product Information Packet

January 12, 2017

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

Model Number: 5KS509AAG201A

Catalog Number: P151

Instruction Manual: GEI-100351

Connection Diagram: GEM2034E-FIG2

Outline Drawing: 50DP2100G001DBT

Accessory Connection Diagrams

Bearing Thermocouple:NoneHeater:3027JE-1CRTD:235A3027XCThermistor:None

Thermostat:

None

Winding Thermocouple:

None

None

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Marks:

MODEL NUMBER: 5KS509AAG201A
Outline Drawing: 50DP2100G001DBT
Connection Diagram: GEM2034E-FIG2
Instruction Book: GEI-100351
Design Code: 50ED1323E

Type: KS
Frame: 509LL
Phases: 3
Poles: 4

Output Power: 200HP 148KW

 RPM:
 1790

 Voltage:
 2300/4000

 Hertz:
 60

 Amps - FL:
 45.6/26.2

 Service Factor:
 1.15

 Alt Service Factor:
 XX

Enclosure is Weather Protected One

Estimated Weight: 2740 Lbs Time Rating: CONT **Enclosure:** WPI **Encl Construction: OPEN** Ambient Max(°C): 40 Alt Ambient Max(°C): XXF **Insulation Class: NEMA Design:** В **Nominal Efficiency:** 95.0 % **Guaranteed Efficiency:** 94.1 3/4 Load Efficiency: 94.7 **KVA Code:** G Max KVAR: 50.0 **Power Factor:** 86.5 **Bearing - DE:** 6318ZC3

6315ZC3

Bearing - ODE:

Stamped Nameplate Notes:

NEMA ENCLOSURE WP-I, 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 CONT HTR LDS HE1-HE2 115V 200W
MAXIMUM SPACE HEATER SURFACE
TEMPERATURE 160 DEG C

Additional Information:

4 POLE, LL SHAFT EXTN
FORMED COIL
(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 BTDS BOTH ENDS
SUGGESTED BEARING RTD SETTINGS,IF PROVIDED
ALARM 115C TRIP 125C
2500 Cu. In. CBOX
PROVISION FOR JACK SCREWS



	Performance	Characteristics
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1st Winding 1st Connection

Design: 50ED1323E

Marks:

LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	94.55	94.69	95.02	94.73	93.86	90.2	0.00
% PF	87.49	87.35	87.74	83.96	76.57	56.14	6.42
AMPS	32.53	29.93	25.78	20.3	14.98	10.63	8.01

TORQ(FL)#FT 587.18 **AMPS(LR)** 161.65

TORQ(LR)%FL PF AT START 129.48 0.23 TORQ(BD)%FL

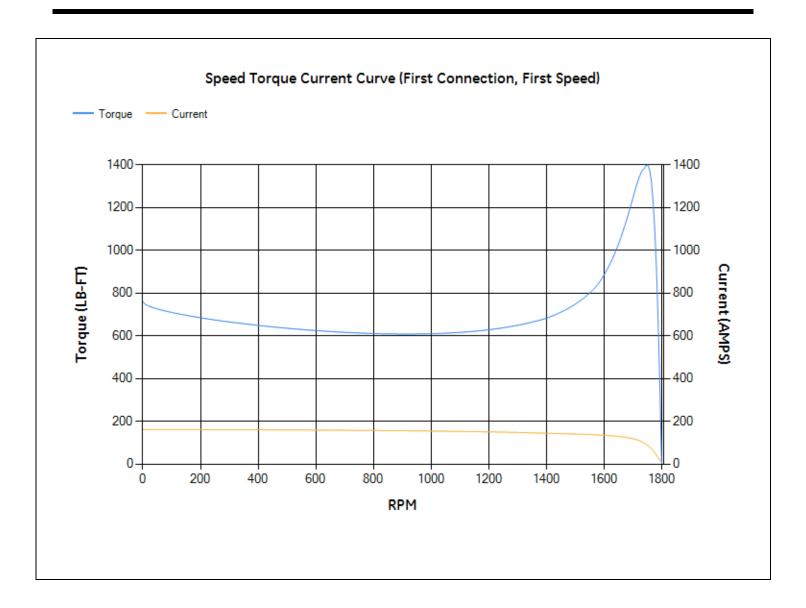
235.18

This motor is capable of two cold or one hot start with a maximum connected load inertia of 3402 Lb-Ft Sq (143.22 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 40 seconds. Safe stall time at 100% voltage is 84 seconds cold, 68 seconds hot. Rotor inertia is 78.36 Lb-Ft Sq (3.3 Kg-meter Sq).

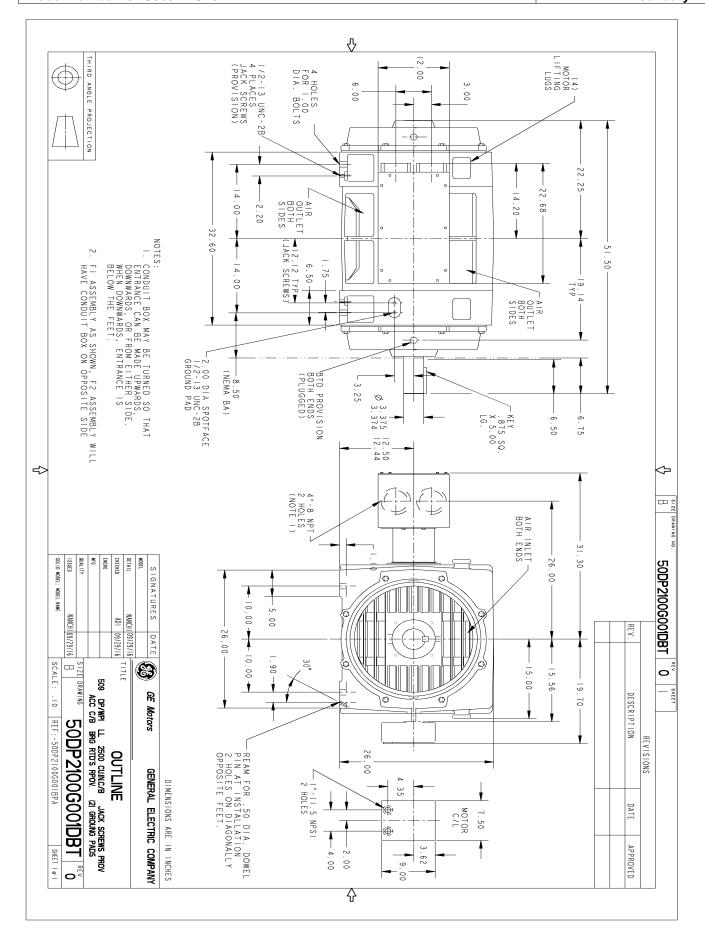
 Open Circuit A-C:
 1.281
 Short Circuit D-C:
 0.026

 Short Circuit A-C:
 0.059
 X/R Ratio:
 9.915

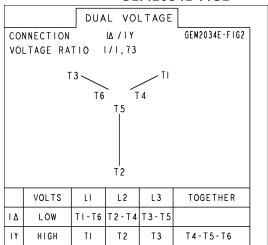
 Stator Slots:
 72
 Rotor Slots:
 56







<u>Connection Diagram</u> <u>GEM2034E-FIG2</u>

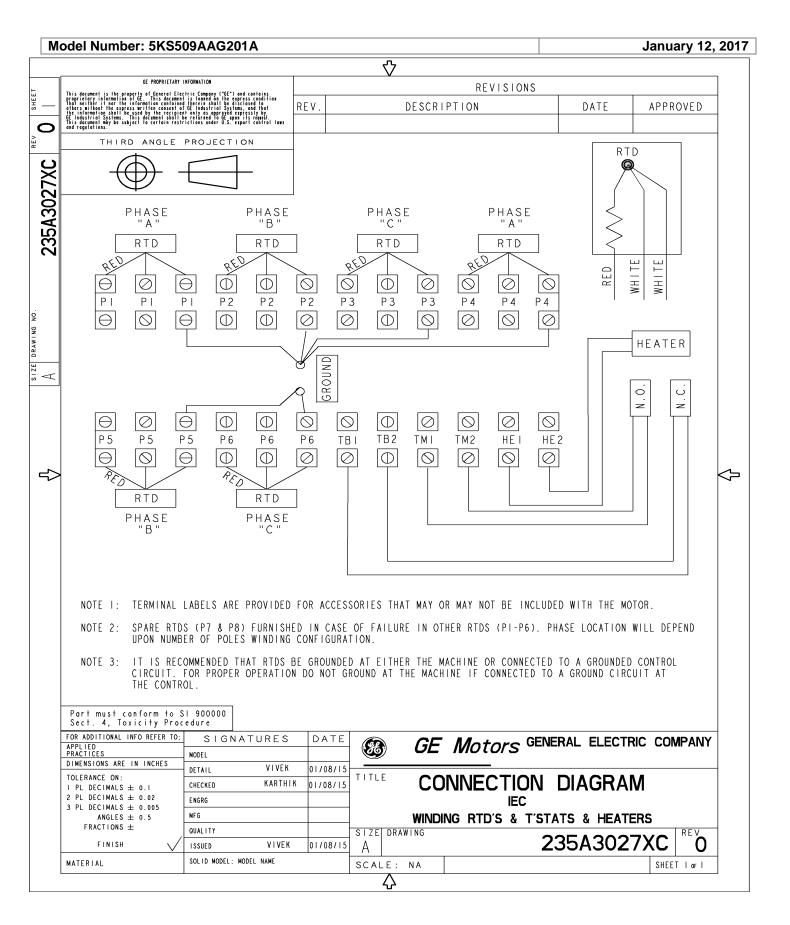


Heater Connection 3027JE-1C

HEATER CONNECTION







End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	119D1850AT1	119D1853AW1
Bearing	235A2514AG01	235A2513AG01
Slinger/Inproseal	235A2300FR1	

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	