Product Information Packet

January 12, 2017

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

Model Number: 5KS511EAG205A

Catalog Number: P475

Instruction Manual: GEI-100351

Connection Diagram: GEM2034E-FIG2

Outline Drawing: 50DP3187G001DBV

Accessory Connection Diagrams

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

Thermostat:

None

Winding Thermocouple:

None

None

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Marks:

MODEL NUMBER: 5KS511EAG205A
Outline Drawing: 50DP3187G001DBV
Connection Diagram: GEM2034E-FIG2
Instruction Book: GEI-100351
Design Code: 50ED1367E

Type: KS
Frame: 5011LL
Phases: 3
Poles: 4

Output Power: 700HP 518KW

RPM: 1780 **Voltage:** 2300/4000

Hertz: 60

Amps - FL: 158.8/91.3
Service Factor: 1.15
Alt Service Factor: XX

Enclosure is Weather Protected Two

Estimated Weight: 4270 Lbs
Time Rating: CONT
Enclosure: WPII
Encl Construction: OPEN
Ambient Max(°C): 40
Alt Ambient Max(°C): XX
Insulation Class: F
NEMA Design: -

Nominal Efficiency: 95.4 % **Guaranteed Efficiency:** 94.5 3/4 Load Efficiency: 95.7 **KVA Code:** G Max KVAR: 172.6 **Power Factor:** 86.5 Bearing - DE: **SLEEVE Bearing - ODE:** SLEEVE

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 CONT HTR LDS HE1-HE2 115V 200W
MAXIMUM SPACE HEATER SURFACE
TEMPERATURE 160 DEG C

Additional Information:

4 POLE, LL 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
DP-WPII STOCK
PATILVR 09/25/16



Performance Characteristics

1st Winding 1st Connection

Design: 50ED1367E

Marks:

LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	94.85	95.1	95.6	95.69	95.46	93.38	0.00
% PF	87.22	87.13	87.6	83.88	76.43	55.41	3.99
AMPS	113.84	104.57	89.86	70.4	51.63	36.4	27.69

TORQ(FL)#FT 2067.3 **AMPS(LR)** 598.92

TORQ(LR)%FL PF AT START 268.22 0.36 TORQ(BD)%FL

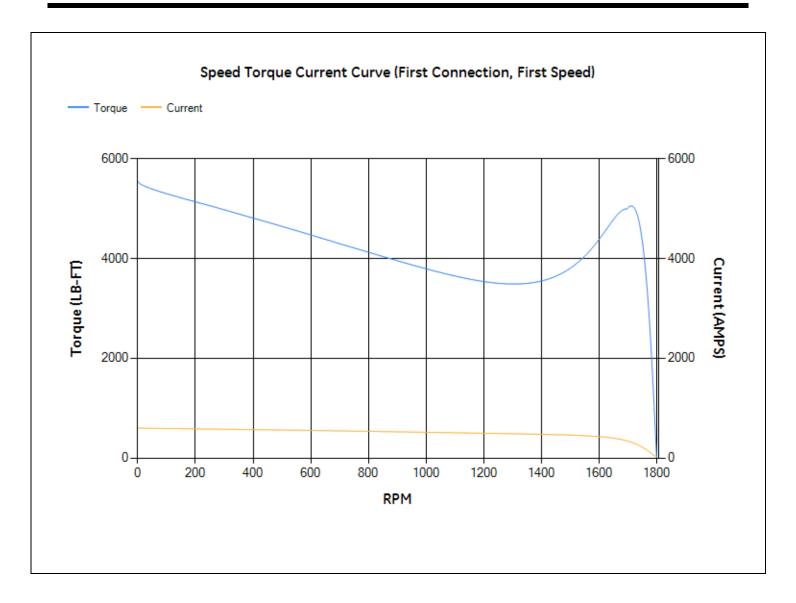
241.11

This motor is capable of two cold or one hot start with a maximum connected load inertia of 5378 Lb-Ft Sq (226.41 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 9 seconds. Safe stall time at 100% voltage is 18 seconds cold, 11 seconds hot. Rotor inertia is 171.42 Lb-Ft Sq (7.22 Kg-meter Sq).

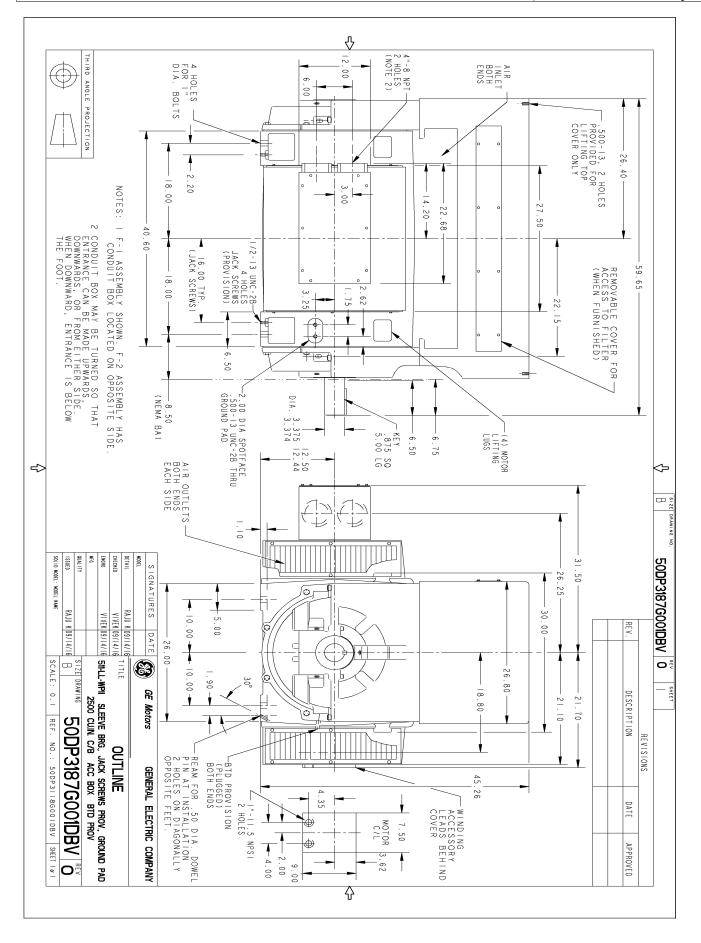
 Open Circuit A-C:
 0.682
 Short Circuit D-C:
 0.028

 Short Circuit A-C:
 0.028
 X/R Ratio:
 10.437

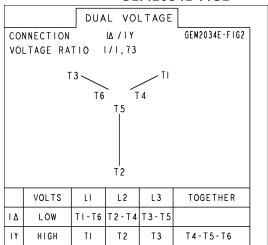
 Stator Slots:
 72
 Rotor Slots:
 56







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

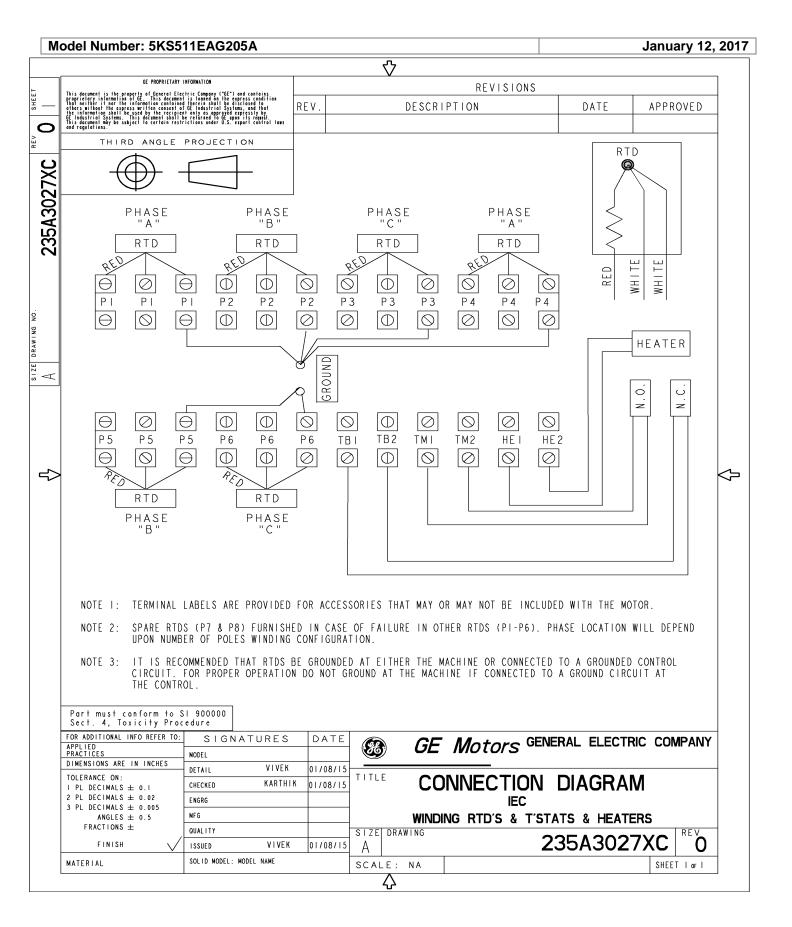


Model Number: 5KS511EAG205A

Heater Connection 3027JE-1C

HEATER CONNECTION





End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	119D1878DB2	119D1878DM1
Bearing	153B4435AD-G01	153B4435AD-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	