

# Product Information Packet

November 9, 2016

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

<b>Model Number:</b>	<b>5KS254STE305A</b>
<b>Catalog Number:</b>	<b>M7545</b>
<b>Instruction Manual:</b>	GEI-M1031
<b>Connection Diagram:</b>	GEM2034E-FIG210
<b>Outline Drawing:</b>	358B6272AA

Accessory Connection Diagrams			
<b>Bearing Thermocouple:</b>	None	<b>Heater:</b>	None
<b>RTD:</b>	None	<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>5KS254STE305A</b>	<b>Estimated Weight:</b>	234 Lbs
<b>Outline Drawing:</b>	358B6272AA	<b>Time Rating:</b>	CONT
<b>Connection Diagram:</b>	GEM2034E-FIG210	<b>Enclosure:</b>	TEFC
<b>Instruction Book:</b>	GEI-M1031	<b>Encl Construction:</b>	SD
<b>Design Code:</b>	25AD3011A	<b>Ambient Max(°C):</b>	40
<b>Type:</b>	KS	<b>Alt Ambient Max(°C):</b>	--
<b>Frame:</b>	254T	<b>Insulation Class:</b>	F
<b>Phases:</b>	3	<b>NEMA Design:</b>	B
<b>Poles:</b>	6	<b>Nominal Efficiency:</b>	91 %
<b>Output Power:</b>	7.5HP 5.6KW	<b>Guaranteed Efficiency:</b>	89.5
<b>RPM:</b>	1175	<b>3/4 Load Efficiency:</b>	92.4
<b>Voltage:</b>	230/460	<b>KVA Code:</b>	G
<b>Hertz:</b>	60	<b>Max KVAR:</b>	2.9
<b>Amps - FL:</b>	19.6/9.8	<b>Power Factor:</b>	77
<b>Service Factor:</b>	1.15	<b>Bearing - DE:</b>	6310ZZ
<b>Alt Service Factor:</b>	--	<b>Bearing - ODE:</b>	6208ZZ

**Enclosure is Totally Enclosed Fan-Cooled**

**Stamped Nameplate Notes:**

6 POLE, TEFC,  
 IP54;IBM3;MASS 106 KG; MIN AMB -15C; MAX ALT 1000M  
 USABLE AT 200V @ 7.5 HP, 21.5 AMPS @ 1.0 SF  
 50HZ DATA @ 1.15 SF: 5.0/3.7 HP,  
 200/400V, 16.6/8.3 AMPS: 50HZ DATA @ 1.00 SF  
 7.5/5.6 HP, 200/400V, 21.6/10.8 AMPS  
 GREASE TYPE: SHELL ALVANIA R3 LITHIUM GREASE

**Additional Information:**

6 POLE, TEFC,  
 DUAL DIMENSION OUTLINE, IP54  
 NO. OF MOTOR LEADS: 12  
 CONDUIT BOX VOLUME (CU IN): 100.5  
 CONDUIT BOX MATERIAL: CAST IRON  
 SUITABLE FOR USE IN CLASS I DIVISION 2 LOCATIONS  
 CLASS I DIVISION 2 GROUPS A,B,C,D T3C  
 CLASS I ZONE 2 IIC T3C

**Performance Characteristics**

1st Winding 1st Connection

**Design: 25AD3011A**

**Marks:**

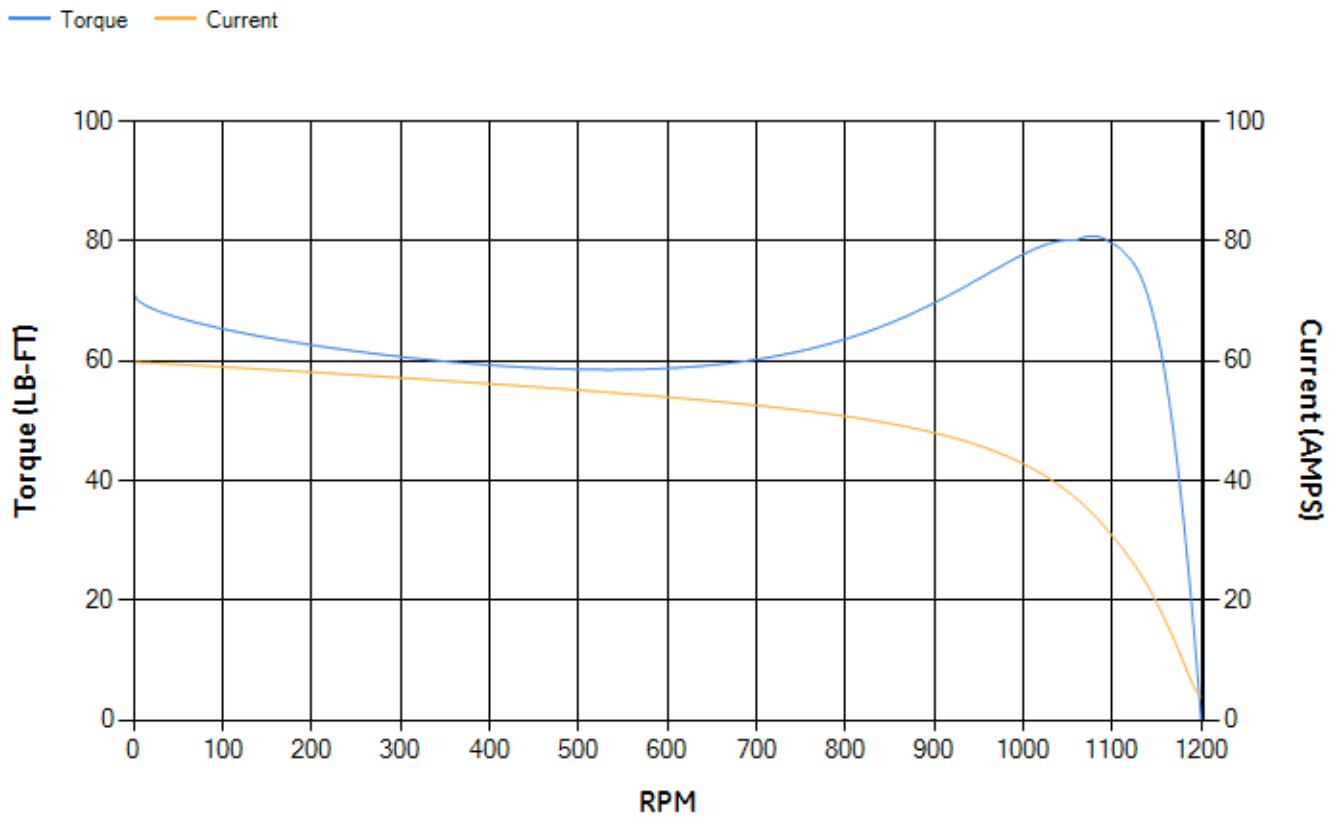
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	91.11	91.52	92.22	92.43	91.88	88.06	0.00
% PF	82.32	81.71	80.22	75.45	65.32	43.99	5.3
AMPS	11.7	10.8	9.49	7.55	5.85	4.53	3.85

<b>TORQ(FL)#FT</b>	33.48	<b>TORQ(LR)%FL</b>	212.82	<b>TORQ(BD)%FL</b>	238.06
<b>AMPS(LR)</b>	59.81	<b>PF AT START</b>	0.37		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 1229 Lb-Ft Sq (51.74 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 88 seconds. Safe stall time at 100% voltage is 191 seconds cold, 148 seconds hot. Rotor inertia is 2.44 Lb-Ft Sq (0.1 Kg-meter Sq).

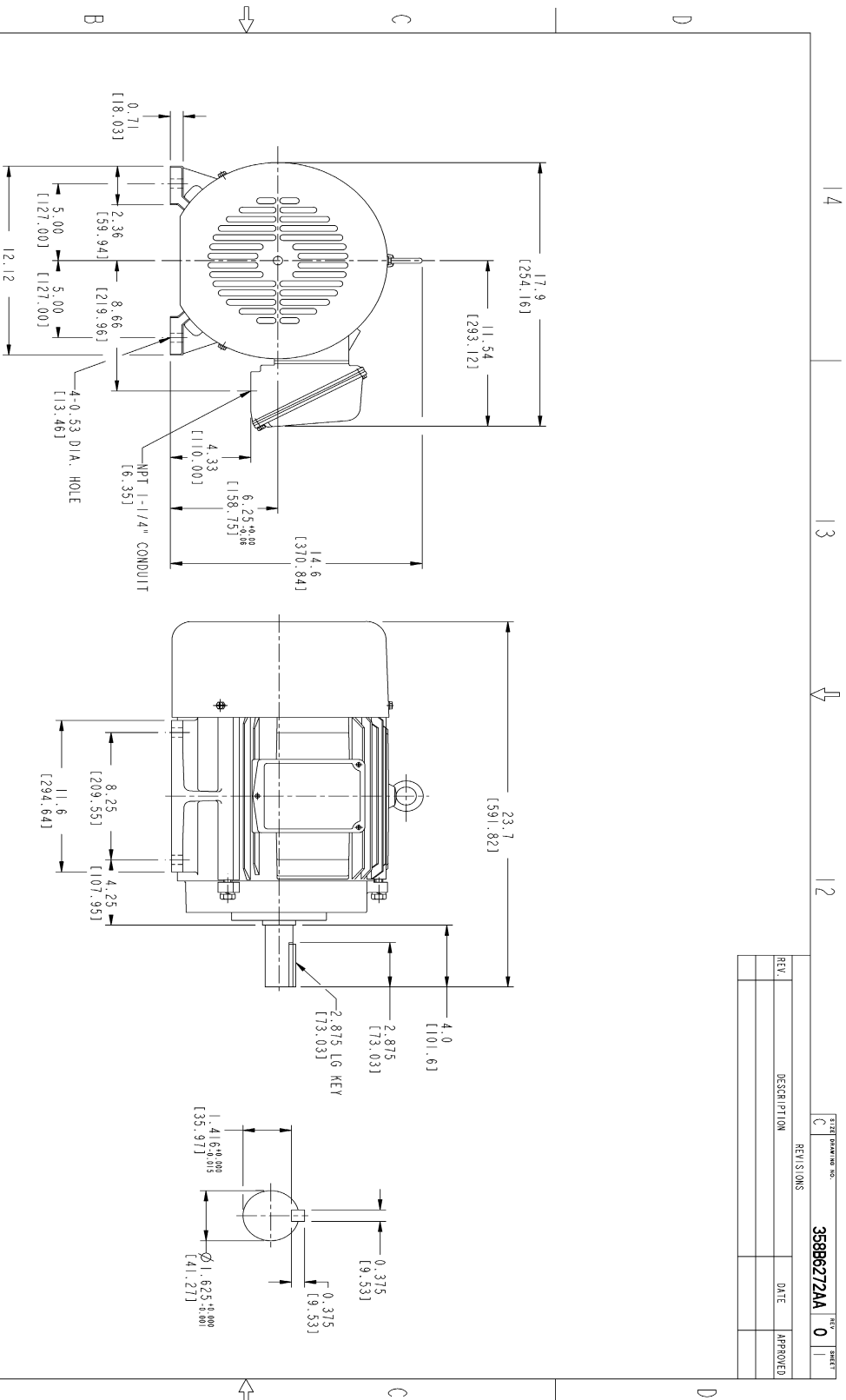
<b>Open Circuit A-C:</b>	0.318	<b>Short Circuit D-C:</b>	0.015
<b>Short Circuit A-C:</b>	0.018	<b>X/R Ratio:</b>	5.8
<b>Stator Slots:</b>	72	<b>Rotor Slots:</b>	60

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



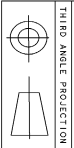
NAME:501291659 OBJECT:358B6272AA DATE:05-Dec-07 10:14:57

Marks:



NOTES :

1. DIMENSIONS ARE IN INCHES.
2. F-1 ASM AS SHOWN.
3. F-2 ASM - HAS CONDUIT BOX ON OPPOSITE SIDE.
4. BRACKETED DIMENSIONS ARE METRIC (MILLIMETERS)
5. IC411, IP54, IMB34 APPLY



THIRD ANGLE PROJECTION

Part must conform to SI 9000000 Sect. 4, Toxicity Procedure

FOR ADDITIONAL INFO REFER TO:	SIGNATURES	DATE
APPROVED		
DESIGNED		
DRAWN		
CHECKED		
TOLERANCE ON:		
1 P/L DECIMALS ±		
2 P/L DECIMALS ±		
3 P/L DECIMALS ±		
ANGLES ±		
FRACTIONS ±		
FINISH		
MATERIAL		
SOILD MODEL NAME		

**GE Consumer & Industrial**  
**GENERAL ELECTRIC COMPANY**

**OUTLINE**  
**FID - 254T TERC CE MARK**  
**1005 CU IN CONDUIT BOX**

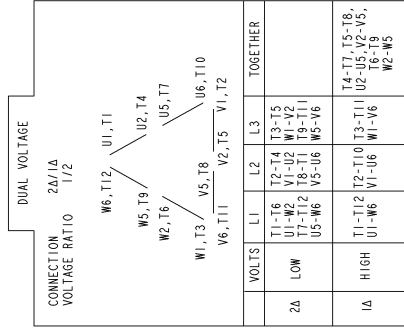
SCALE: C  
 SHEET 1 OF 1

REV.	DESCRIPTION	DATE	APPROVED

358B6272AA REV 0

Marks:

**Connection Diagram**  
**GEM2034E-FIG210**



NAME:501452353 OBJECT:GEM2034E-FIG210 DATE:25-Feb-08 14:03:35

