



**GE INDUSTRIAL MOTORS**  
a **WOLONG** company

# Product Technical Information

January 8, 2021

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

<b>Model Number:</b>	<b>5KS324SAA305D11</b>
<b>Catalog Number:</b>	<b>M9158</b>
<b>Instruction Manual:</b>	GEI-56128
<b>Connection Diagram:</b>	GEM2034E-FIG9
<b>Outline Drawing:</b>	239C6000BC

## 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		

## Table of Contents

Specification	01
Performance Characteristics	02
Outline Drawing	03
Connection Drawing(s)	04
Spare parts	05

Marks:

**MODEL NUMBER:** 5KS324SAA305D11  
**Outline Drawing:** 239C6000BC  
**Connection Diagram:** GEM2034E-FIG9  
**Instruction Book:** GEI-56128  
**Design Code:** 32BD3099A  
**Type:** KS  
**Frame:** 324T  
**Phases:** 3  
**Poles:** 6  
**Output Power:** 25HP 18.5KW  
**RPM:** 1180  
**Voltage:** 230/460  
**Hertz:** 60  
**Amps - FL:** 64.2/32.1  
**Service Factor:** 1.15  
**Alt Service Factor:** --

**Estimated Weight:** 660 Lbs  
**Time Rating:** CONT  
**Enclosure:** TEFC  
**Encl Construction:** 841  
**Ambient Max(°C):** 40  
**Alt Ambient Max(°C):** --  
**Insulation Class:** H  
**NEMA Design:** B  
**Nominal Efficiency:** 93.0 %  
**Guaranteed Efficiency:** 92.4 %  
**3/4 Load Efficiency:** --  
**KVA Code:** G  
**Max KVAR:** 10.3  
**Power Factor:** 78.5  
**Bearing - DE:** 6312ZC3  
**Bearing - ODE:** 6312ZC3

**Enclosure is Totally Enclosed Fan-Cooled**

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Stamped Nameplate Notes:

DE BRG 60BC03JP30, ODE BRG 60BC03JP30  
 EXCEPTION-IEEE-STD-841-2009:DUAL VOLTAGE 230/460  
 STAMP NP249A5564P051 AS BELOW:  
 MODEL:5KS324SAA305D11 S/N: XXX  
 CSA CERTIFIED CSA09.2216219 FOR EX NA IIC 200 C GC  
 CL 1 ZONE2 AEX NA IIC 200C;CL 1 DIV2 GRP ABCD 200C  
 IN -40C <= AMB <= 40C, 1.0 SF ON SINE-WAVE PWR  
 SURF TEMP 200C AT 1.15SF ON SINE-WAVE PWR  
 OR 200C VT OR 200C CT OR 200C CHP PWM CONTROL  
 ALTERNATE RATING FOR PWM CONTROL 1.0SF 40C AMB  
 VT 0 - 60 HZ, CT 3-60 HZ, CHP 60-90 HZ.



**Additional Information:**

6P - T EXTN  
PAINTED FRAME ID & SHAFT,  
FAN COVER INSIDE & ODE E/S OUTSIDE  
C/BOX 346 CU IN - 3.00" NPT  
OIL RESISTANT SLEEVING ON LEADS  
.0015" TIR SHAFT RUNOUT  
ROUTINE TEST REPORT AND 5 POINT VIBRATION TEST  
REPORT INCLUDED IN C/B  
GROUND PAD  
F1 MOUNTING



**Performance Characteristics**

1st Winding 1st Connection

**Design: 32BD3099A**

**Marks:**

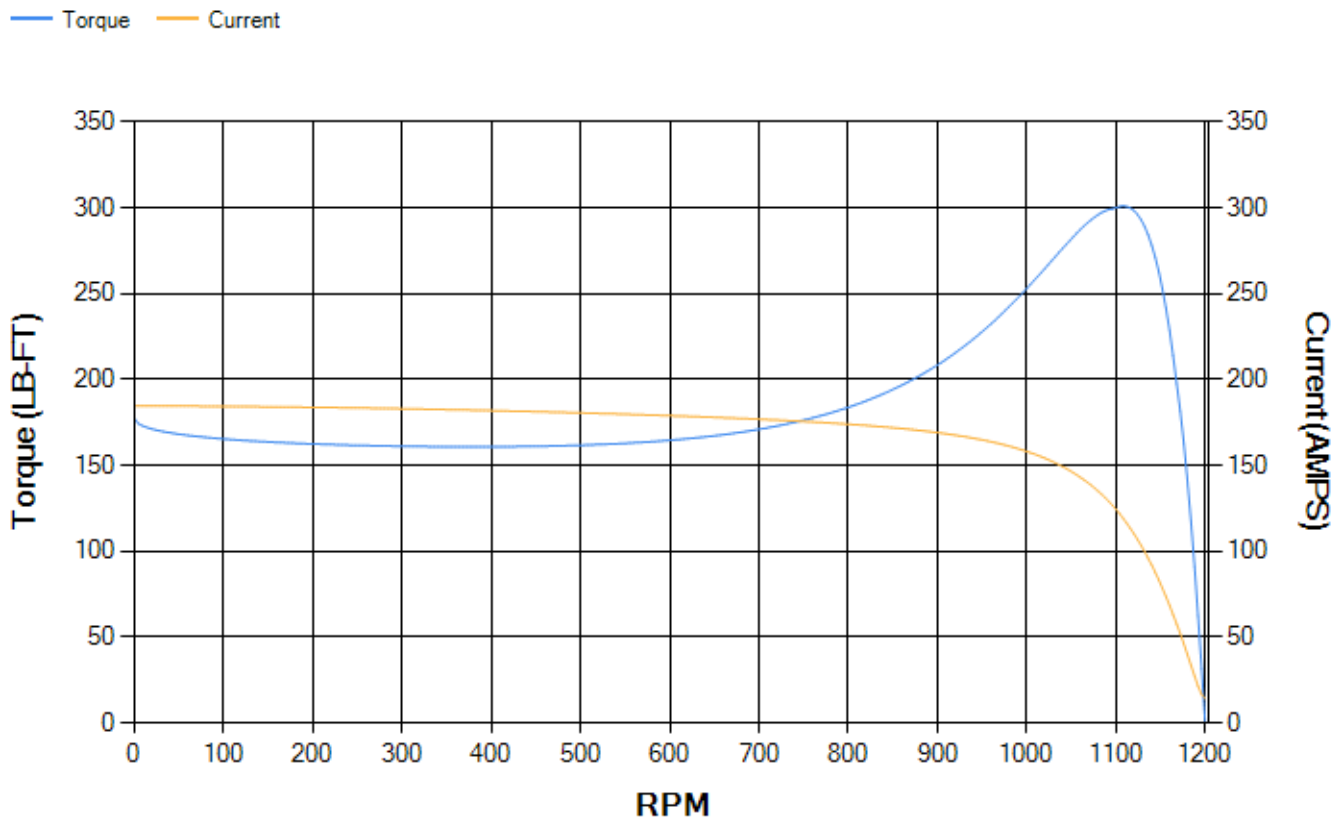
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	92.2	92.56	93.21	93.38	92.92	89.56	0.00
% PF	81	80.3	78.6	73.26	62.21	40.3	4
AMPS	39.16	36.2	31.92	25.65	20.24	16.21	14.32

**TORQ(FL)#FT** 111.19      **TORQ(LR)%FL** 159.54      **TORQ(BD)%FL** 268.46  
**AMPS(LR)** 184.74      **PF AT START** 0.33

This motor is capable of two cold or one hot start with a maximum connected load inertia of 2445 Lb-Ft Sq (102.93 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 62 seconds. Safe stall time at 100% voltage is 116 seconds cold, 75 seconds hot. Rotor inertia is 8.87 Lb-Ft Sq (0.37 Kg-meter Sq).

**Open Circuit A-C:** 0.34      **Short Circuit D-C:** 0.018  
**Short Circuit A-C:** 0.022      **X/R Ratio:** 6.623  
**Stator Slots:** 54      **Rotor Slots:** 40

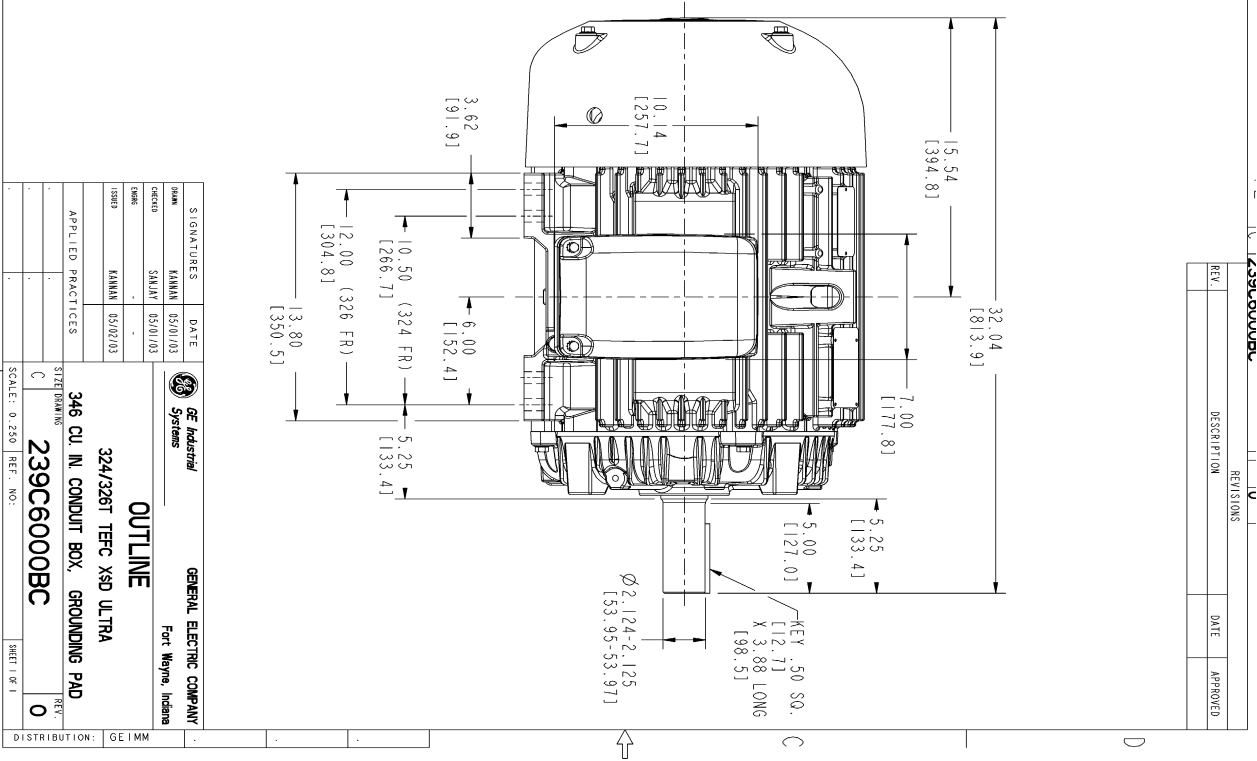
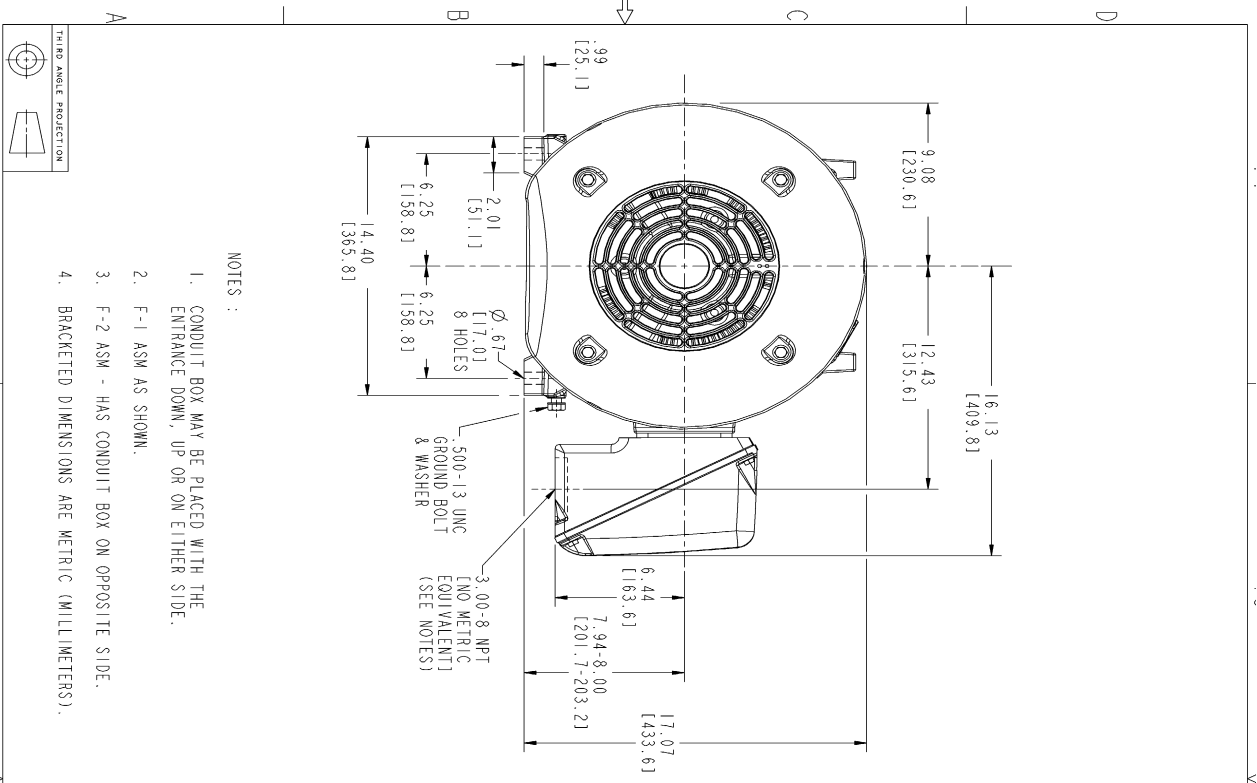
**Speed Torque Current Curve (First Connection, First Speed)**



NAME: 103013435 OBJECT: 239C6000BC DATE: 02-May-03 16:11:49

239C6000BC  
ASSEM

Marks:



- NOTES :
1. CONDUIT BOX MAY BE PLACED WITH THE ENTRANCE DOWN, UP OR ON EITHER SIDE.
  2. F-1 ASM AS SHOWN.
  3. F-2 ASM - HAS CONDUIT BOX ON OPPOSITE SIDE.
  4. BRACKETED DIMENSIONS ARE METRIC (MILLIMETERS).

REV	DESCRIPTION	DATE	APPROVED

DATE	DATE	DATE	DATE
05/01/03	05/01/03	05/01/03	05/01/03
SKALNY	SKALNY	SKALNY	SKALNY

APPLIED PRACTICES	STRENGTH

SCALE: 0.250	REF. NO.:

346 CU IN CONDUIT BOX, GROUNDING PAD	324/326T TERC XSD ULTRA
239C6000BC	

DISTRIBUTION: GE IMM

Marks:

**Connection Diagram**  
**GEM2034E-FIG9**



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	115E4200AA1	115E4200LA1
Bearing	235A2509AS01	235A2509AS01
Slinger/Inproseal	149C4399G04	149C4399G04

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	159C7000G01
Fan Cover	128D6800AA1

Conduit & Accessories Box Assembly	
Part Description	Part#
Conduit Box	149C4429AA2

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

