



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

# Product Technical Information

February 19, 2021

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

<b>Model Number:</b>	<b>5KS324SAA114D11</b>
<b>Catalog Number:</b>	<b>M9829</b>
<b>Instruction Manual:</b>	GEI-56128
<b>Connection Diagram:</b>	GEM2034E-FIG7
<b>Outline Drawing:</b>	239C6000BD

## 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>5KS324SAA114D11</b>	<b>Estimated Weight:</b>	620 Lbs
<b>Outline Drawing:</b>	239C6000BD	<b>Time Rating:</b>	CONT
<b>Connection Diagram:</b>	GEM2034E-FIG7	<b>Enclosure:</b>	TEFC
<b>Instruction Book:</b>	GEI-56128	<b>Encl Construction:</b>	841
<b>Design Code:</b>	32BD0110B	<b>Ambient Max(°C):</b>	40
<b>Type:</b>	KS	<b>Alt Ambient Max(°C):</b>	--
<b>Frame:</b>	324TS	<b>Insulation Class:</b>	H
<b>Phases:</b>	3	<b>NEMA Design:</b>	B
<b>Poles:</b>	2	<b>Nominal Efficiency:</b>	93.0 %
<b>Output Power:</b>	40HP 29.6KW	<b>Guaranteed Efficiency:</b>	92.4 %
<b>RPM:</b>	3565	<b>3/4 Load Efficiency:</b>	--
<b>Voltage:</b>	575	<b>KVA Code:</b>	G
<b>Hertz:</b>	60	<b>Max KVAR:</b>	15.0
<b>Amps - FL:</b>	38.8	<b>Power Factor:</b>	83.0
<b>Service Factor:</b>	1.15	<b>Bearing - DE:</b>	6312ZC3
<b>Alt Service Factor:</b>	--	<b>Bearing - ODE:</b>	6312ZC3

Enclosure is Totally Enclosed Fan-Cooled

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Stamped Nameplate Notes:

IEEE-STD-841-2009

DE BRG 60BC03JP30, ODE BRG 60BC03JP30

STAMP NP249A5564P051 AS BELOW:

MODEL:5KS324SAA114D11 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 260C AT 1.15SF ON SINE-WAVE PWR

OR 200C VT OR 230C CT OR 200C CHP PWM CONTROL

ALTERNATE RATING FOR PWM CONTROL 1.0SF 40C AMB

VT 0 - 60 HZ, CT 8.6 - 60 HZ, CHP 60 - 75 HZ.



**Additional Information:**

2P - TS 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: 32BD0110B**

**Marks:**

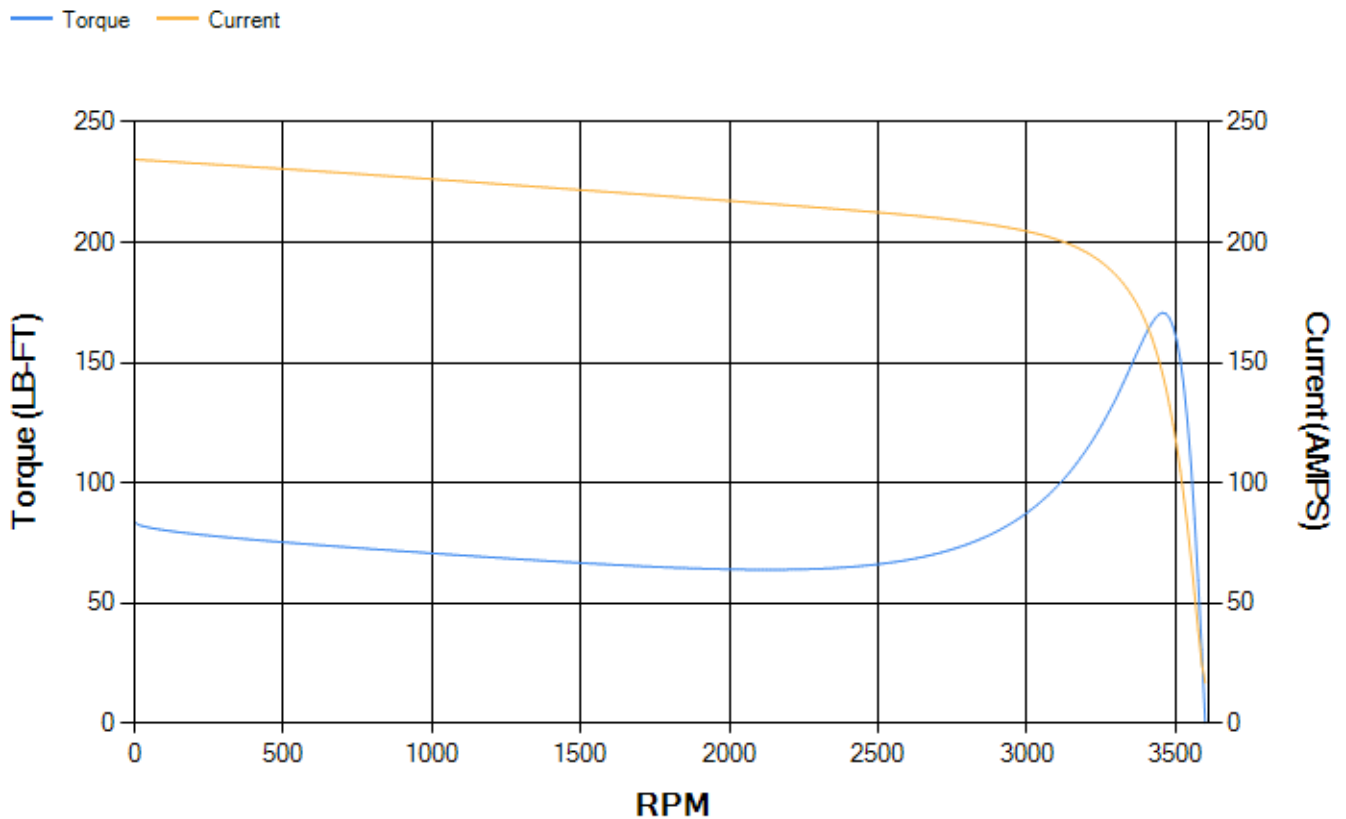
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	92.48	92.69	93.1	92.86	91.8	87.19	0.00
% PF	85.13	84.42	82.79	77.76	67.15	44.9	5.67
AMPS	47.55	44.02	38.81	31.11	24.29	19.13	16.68

<b>TORQ(FL)#FT</b>	58.9	<b>TORQ(LR)%FL</b>	142.05	<b>TORQ(BD)%FL</b>	289.59
<b>AMPS(LR)</b>	234.48	<b>PF AT START</b>	0.29		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 115 Lb-Ft Sq (4.84 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 23 seconds. Safe stall time at 100% voltage is 53 seconds cold, 28 seconds hot. Rotor inertia is 3.11 Lb-Ft Sq (0.13 Kg-meter Sq).

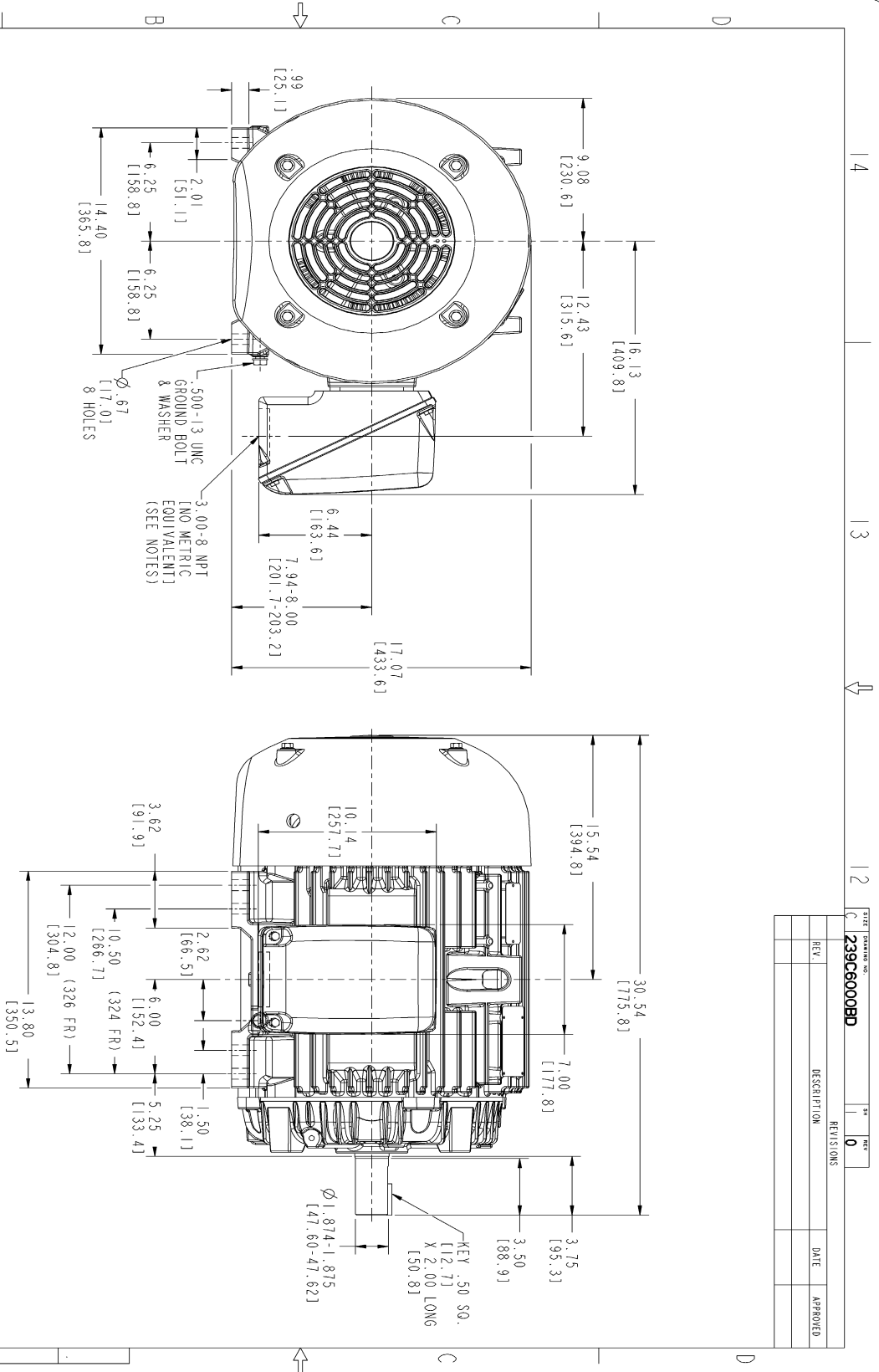
<b>Open Circuit A-C:</b>	0.605	<b>Short Circuit D-C:</b>	0.017
<b>Short Circuit A-C:</b>	0.041	<b>X/R Ratio:</b>	6.595
<b>Stator Slots:</b>	48	<b>Rotor Slots:</b>	38

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

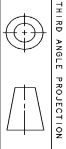


NAME: 103016807 OBJECT: 239C6000BD DATE: 08-May-03 13:06:37

Marks:



DRAWING NO.		REV	
239C6000BD		0	
REV.	DESCRIPTION	DATE	APPROVED



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

SIGNATURES	DATE	GENERAL ELECTRIC COMPANY Fort Wayne, Indiana	
DESIGN P. RAJESH KUMAR	05/07/03	<b>OUTLINE</b> 346 CU IN. CONDUIT BOX, GROUNDING PAD 239C6000BD	
DRAWN R. RAJESH KUMAR	05/07/03		
CHECKED R. RAJESH KUMAR	05/07/03		
APPLIED PRACTICES		SHEET DRAWING	REV
SCALE: 0.250		REF. NO:	0
DISTRIBUTION: GE IMM		SHEET OF 1	

**Marks:**

**Connection Diagram**  
**GEM2034E-FIG7**



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	159C6700G02
Fan Cover	128D6800AA1

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

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

