



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

# Product Technical Information

December 11, 2020

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

<b>Model Number:</b>	<b>5KS449XAA308D</b>
<b>Catalog Number:</b>	<b>M8940</b>
<b>Instruction Manual:</b>	GEI-56128
<b>Connection Diagram:</b>	GEM2034E-FIG8
<b>Outline Drawing:</b>	239C6800VW

## 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:

**MODEL NUMBER:** 5KS449XAA308D  
**Outline Drawing:** 239C6800VW  
**Connection Diagram:** GEM2034E-FIG8  
**Instruction Book:** GEI-56128  
**Design Code:** 49BD3013A  
**Type:** KS  
**Frame:** 449T  
**Phases:** 3  
**Poles:** 6  
**Output Power:** 200HP 148KW  
**RPM:** 1190  
**Voltage:** 460  
**Hertz:** 60  
**Amps - FL:** 227.0  
**Service Factor:** 1.15  
**Alt Service Factor:** --

**Estimated Weight:** 3060 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:** 95.8 %  
**Guaranteed Efficiency:** 95.4 %  
**3/4 Load Efficiency:** --  
**KVA Code:** G  
**Max KVAR:** 50.2  
**Power Factor:** 86.0  
**Bearing - DE:** 6318ZC3  
**Bearing - ODE:** 6318ZC3

**Enclosure is Totally Enclosed Fan-Cooled**

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Stamped Nameplate Notes:

IEEE-STD-841-2009  
 DE BRG 90BC03JP3, ODE BRG 90BC03JP3  
 STAMP NP249A5564P051 AS BELOW:  
 MODEL:5KS449XAA308D 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 -25C <= AMB <= 40C, 1.0 SF ON SINE-WAVE PWR  
 SURF TEMP 230C 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 20-60 HZ, CHP 60-90 HZ.



**Additional Information:**

6P - T EXTN - SPLIT LEAD  
PAINTED FRAME ID & SHAFT,  
FAN COVER INSIDE & ODE E/S OUTSIDE  
C/BOX 700 CU IN - 3.00" NPT  
INPRO SEAL BOTH ENDS  
OIL RESISTANT SLEEVING ON LEADS  
.0015" TIR SHAFT RUNOUT  
ROUTINE TEST REPORT AND 5 POINT VIBRATION TEST  
REPORT INCLUDED IN C/B  
COPPER WASHER UNDER HEADS OF BEARING CAP BOLTS,  
APPLY TITE-SEAL (A50CD427A) ON BEARING CAP SCREWS,  
RABBETS AND PLUG THREADS.  
GROUND PAD  
F1 MOUNTING



**Performance Characteristics**

1st Winding 1st Connection

**Design: 49BD3013A**

**Marks:**

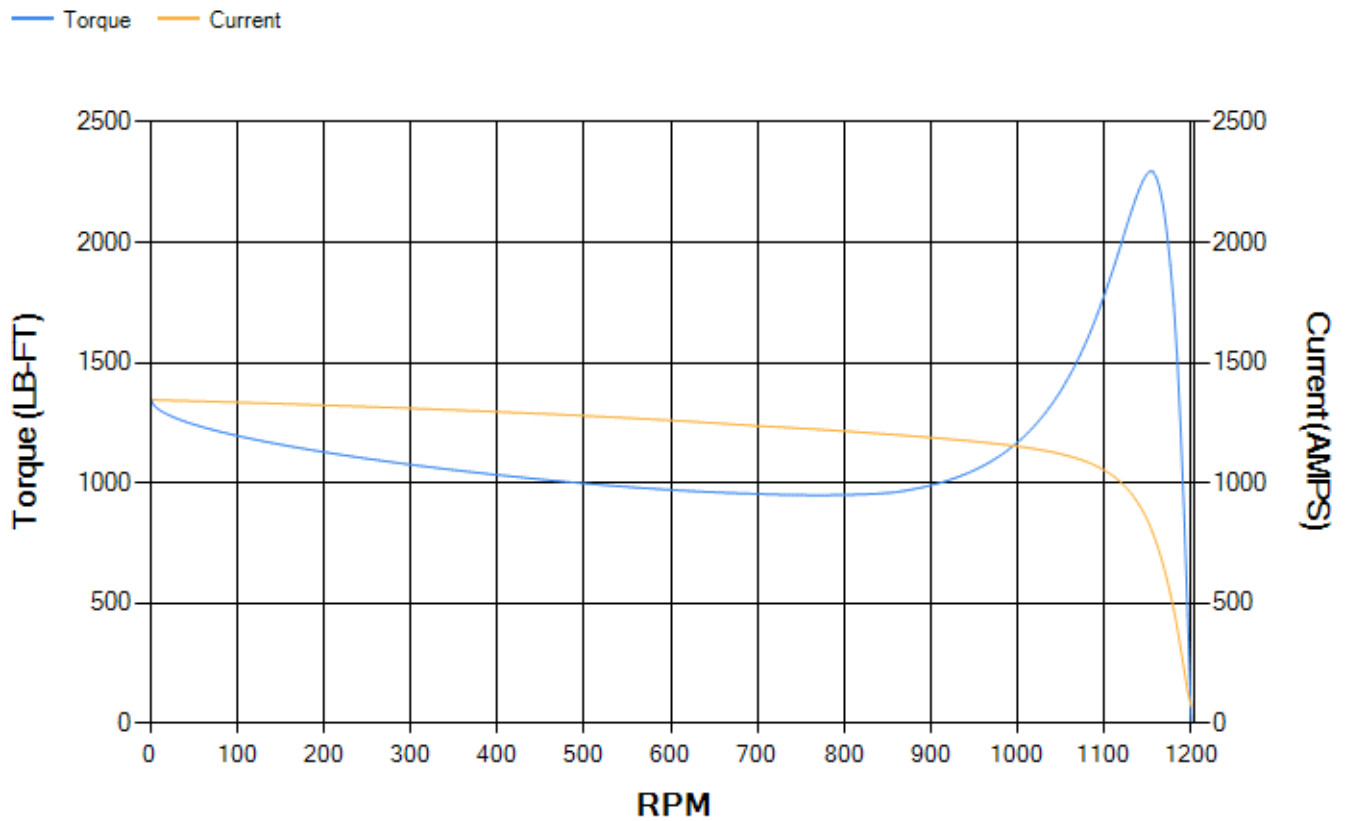
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	95.01	95.28	95.82	95.99	95.9	94.2	0.00
% PF	86.48	86.44	85.96	83.39	76.18	55.58	3.41
AMPS	284.79	261.38	227.27	175.37	128.12	89.38	70.07

<b>TORQ(FL)#FT</b>	881.68	<b>TORQ(LR)%FL</b>	153.09	<b>TORQ(BD)%FL</b>	260.27
<b>AMPS(LR)</b>	1345.1	<b>PF AT START</b>	0.27		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 13996 Lb-Ft Sq (589.23 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 64 seconds. Safe stall time at 100% voltage is 139 seconds cold, 77 seconds hot. Rotor inertia is 192.44 Lb-Ft Sq (8.1 Kg-meter Sq).

<b>Open Circuit A-C:</b>	1.133	<b>Short Circuit D-C:</b>	0.032
<b>Short Circuit A-C:</b>	0.054	<b>X/R Ratio:</b>	12.195
<b>Stator Slots:</b>	72	<b>Rotor Slots:</b>	58

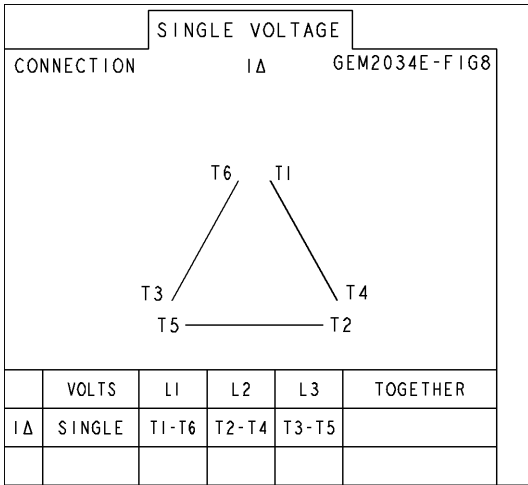
**Speed Torque Current Curve (First Connection, First Speed)**





**Marks:**

**Connection Diagram**  
**GEM2034E-FIG8**



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	115E4355AA1	115E4355LM1
Bearing	235A2514AG01	235A2514AG01
Slinger/Inproseal	235A4575GS5	235A4575GS5

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	159C7100G03
Fan Cover	128D6841AA1

Conduit & Accessories Box Assembly	
Part Description	Part#
Conduit Box	118D4408AD2

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

