



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

# Product Technical Information

October 24, 2020

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

<b>Model Number:</b>	<b>5KS449XAA439C</b>
<b>Catalog Number:</b>	<b>M9366</b>
<b>Instruction Manual:</b>	GEI-56128
<b>Connection Diagram:</b>	GEM2034E-FIG1
<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:** 5KS449XAA439C  
**Outline Drawing:** 239C6800VW  
**Connection Diagram:** GEM2034E-FIG1  
**Instruction Book:** GEI-56128  
**Design Code:** 49BD4039B  
**Type:** KS  
**Frame:** 449T  
**Phases:** 3  
**Poles:** 8  
**Output Power:** 200HP 148KW  
**RPM:** 890  
**Voltage:** 575  
**Hertz:** 60  
**Amps - FL:** 200.0  
**Service Factor:** 1.15  
**Alt Service Factor:** --

**Estimated Weight:** 3200 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:** 95.0 %  
**Guaranteed Efficiency:** 94.5 %  
**3/4 Load Efficiency:** --  
**KVA Code:** G  
**Max KVAR:** 74.8  
**Power Factor:** 79.0  
**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:5KS449XAA439C 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 260C AT 1.15SF ON SINE-WAVE PWR  
 OR 200C VT OR 215C CT OR 200C CHP PWM CONTROL  
 ALTERNATE RATING FOR PWM CONTROL 1.0SF 40C AMB  
 VT 0 - 60 HZ, CT 45-60 HZ, CHP 60-90 HZ.



**Additional Information:**

8P - T EXTN  
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: 49BD4039B**

**Marks:**

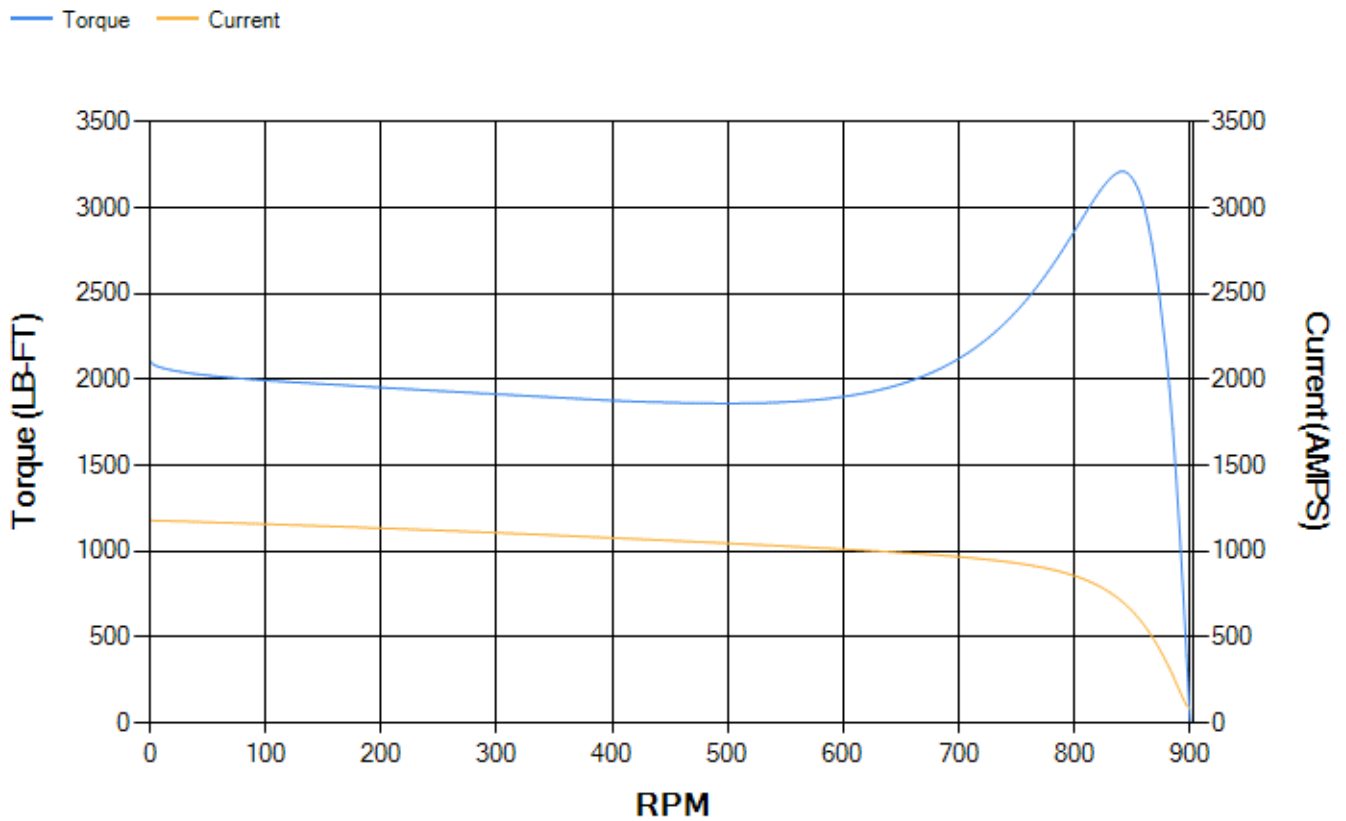
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	94.87	95.13	95.64	95.75	95.53	93.48	0.00
% PF	81.05	80.55	79.2	74.5	64.09	41.87	2.61
AMPS	243.45	224.74	197.69	157.45	122.3	95.65	83.45

<b>TORQ(FL)#FT</b>	1181.15	<b>TORQ(LR)%FL</b>	178.93	<b>TORQ(BD)%FL</b>	271.65
<b>AMPS(LR)</b>	1180.68	<b>PF AT START</b>	0.33		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 28665 Lb-Ft Sq (1206.8 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 50 seconds. Safe stall time at 100% voltage is 120 seconds cold, 60 seconds hot. Rotor inertia is 213.06 Lb-Ft Sq (8.97 Kg-meter Sq).

<b>Open Circuit A-C:</b>	0.486	<b>Short Circuit D-C:</b>	0.036
<b>Short Circuit A-C:</b>	0.031	<b>X/R Ratio:</b>	13.647
<b>Stator Slots:</b>	72	<b>Rotor Slots:</b>	58

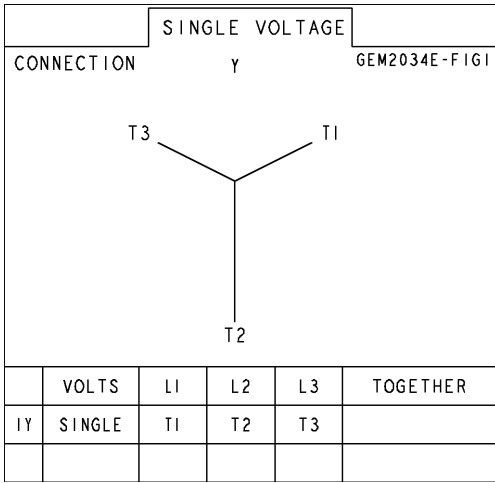
**Speed Torque Current Curve (First Connection, First Speed)**





**Marks:**

**Connection Diagram**  
**GEM2034E-FIG1**



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	

