



**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>5KS447XAA408D6</b>
<b>Catalog Number:</b>	<b>M9473</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:** 5KS447XAA408D6  
**Outline Drawing:** 239C6800VW  
**Connection Diagram:** GEM2034E-FIG1  
**Instruction Book:** GEI-56128  
**Design Code:** 49BD4043A  
**Type:** KS  
**Frame:** 447T  
**Phases:** 3  
**Poles:** 8  
**Output Power:** 125HP 92.5KW  
**RPM:** 890  
**Voltage:** 460  
**Hertz:** 60  
**Amps - FL:** 160.0  
**Service Factor:** 1.15  
**Alt Service Factor:** --

**Estimated Weight:** 2450 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:** 94.5 %  
**Guaranteed Efficiency:** 94.1 %  
**3/4 Load Efficiency:** --  
**KVA Code:** G  
**Max KVAR:** 51.5  
**Power Factor:** 77.5  
**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:5KS447XAA408D6 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 300C CHP PWM CONTROL  
 ALTERNATE RATING FOR PWM CONTROL 1.0SF 40C AMB  
 VT 0 - 60 HZ, CT 8.6-60 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: 49BD4043A**

**Marks:**

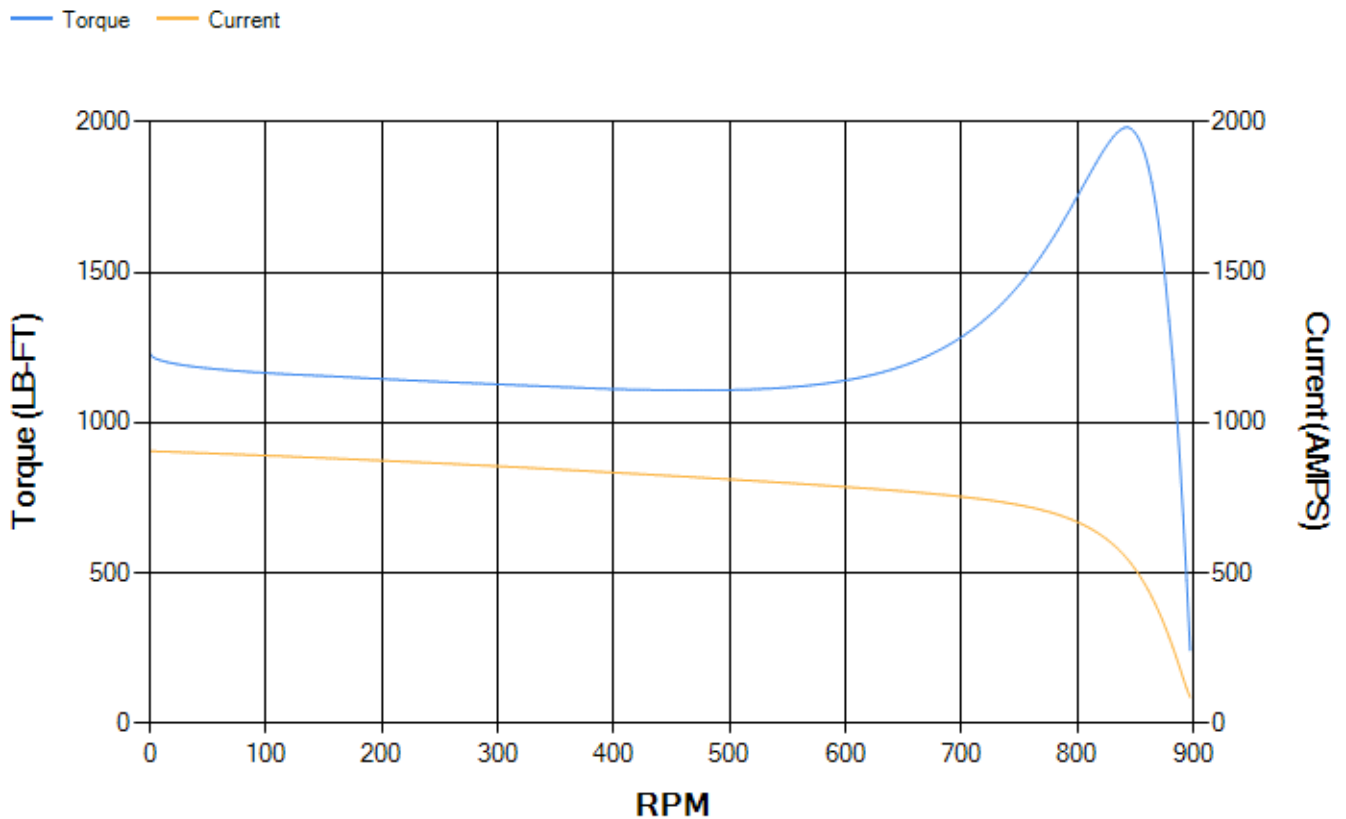
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	94.27	94.53	95.05	95.1	94.7	92.07	0.00
% PF	79.64	79.03	77.46	72.26	61.3	39.33	2.98
AMPS	194.78	180.08	158.91	127.68	100.76	80.77	71.77

**TORQ(FL)#FT** 738.1                      **TORQ(LR)%FL** 166.93                      **TORQ(BD)%FL** 268.2  
**AMPS(LR)** 905.23                      **PF AT START** 0.33

This motor is capable of two cold or one hot start with a maximum connected load inertia of 16257 Lb-Ft Sq (684.42 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 48 seconds. Safe stall time at 100% voltage is 108 seconds cold, 57 seconds hot. Rotor inertia is 107.76 Lb-Ft Sq (4.54 Kg-meter Sq).

**Open Circuit A-C:** 0.454                      **Short Circuit D-C:** 0.031  
**Short Circuit A-C:** 0.032                      **X/R Ratio:** 11.724  
**Stator Slots:** 72                      **Rotor Slots:** 58

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



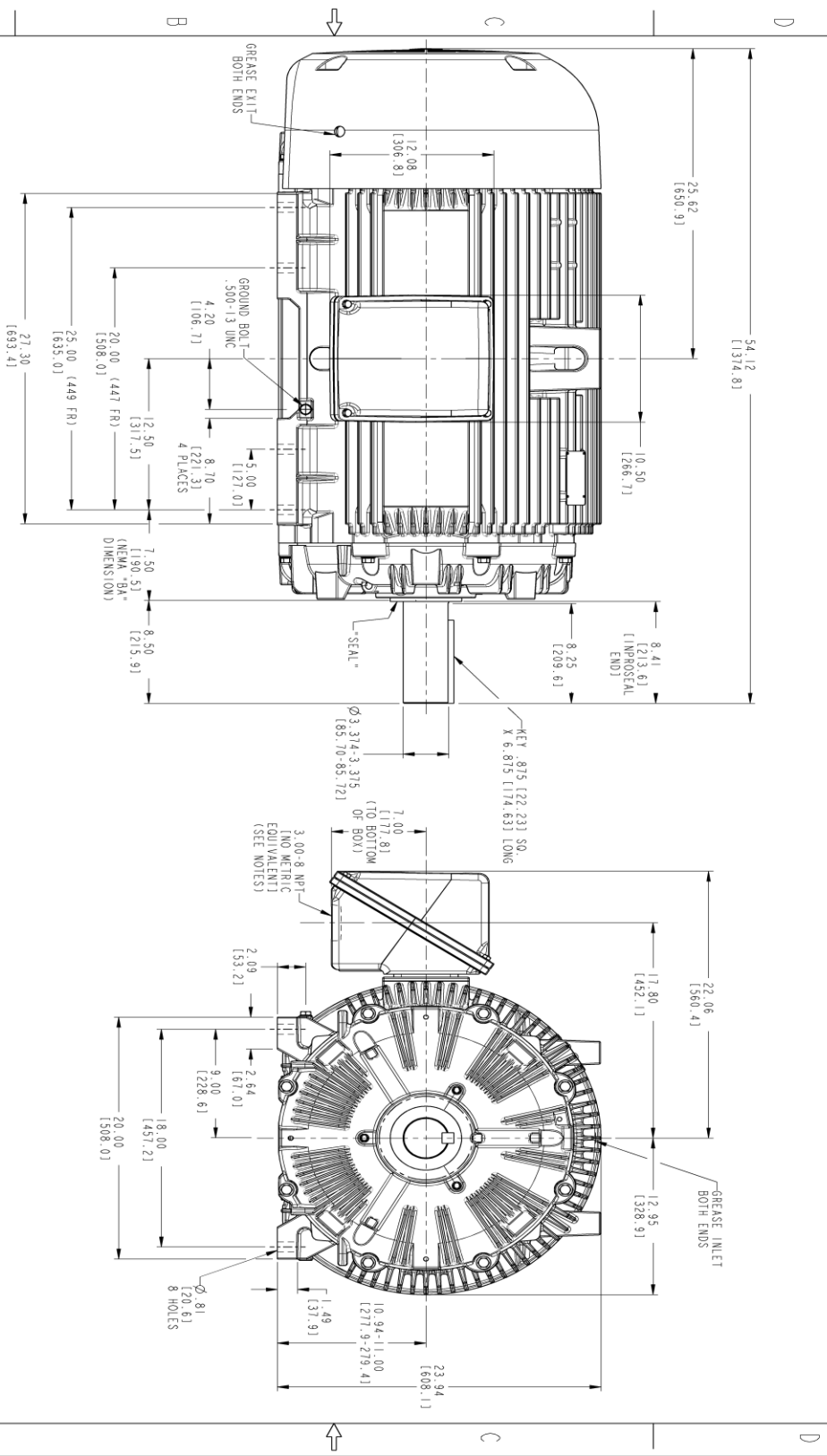
Marks:

REVISION INFORMATION

1. GE Industrial Motors, Inc. reserves the right to modify the design of this product without notice. The user is advised to check the latest revision of this drawing for any changes. The user is also advised to check the latest revision of the product manual for any changes. The user is responsible for ensuring that the product is used in accordance with the instructions provided in the product manual.

REV.	DESCRIPTION	DATE	APPROVED
1	ISSUE 18-0869	11/26/18	PARSHANTH

SHEET DRAWING NO. **239C6800WW 001**



- NOTES:
- CONDUIT BOX MAY BE PLACED WITH THE ENTRANCE DOWN, UP OR ON EITHER SIDE.
  - F-1 ASSEMBLY AS SHOWN.
  - F-2 ASSEMBLY CONDUIT BOX ON OPPOSITE SIDE.
  - BRACKETED DIMENSIONS ARE METRIC (MILLIMETERS).
  - TOLERANCE ON PERMISSIBLE SHAFT EXTENSION RUNOUT IS .0015 T.1.R.



SIGNATURES		DATE	
MODEL	TEJASNI	01/22/15	
REVIEW	TEJASNI	01/20/15	
CHECKED	VENKAT	01/20/15	
DESIGN	VENKAT	01/20/15	
DATE			
QUALITY			
ISSUED	TEJASNI	01/20/15	

SOLO MODEL: 239C6800WW	SCALE: 0.180	REF. NO: 239C68006	SHEET 1 OF 1
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<b>GE INDUSTRIAL MOTORS</b>	
a WOLONG company	
<b>OUTLINE</b>	
447/449 T TEFC XSD 841	
700 CU. IN. C BOX	
<b>239C6800WW</b>	REV
	<b>001</b>

**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	

