



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

# Product Technical Information

June 25, 2020

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

<b>Model Number:</b>	<b>5KS447XAA200</b>
<b>Catalog Number:</b>	<b>M9012</b>
<b>Instruction Manual:</b>	GEI-56128
<b>Connection Diagram:</b>	GEM2034E-FIG7
<b>Outline Drawing:</b>	239C6801GC

## 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>5KS447XAA200</b>	<b>Estimated Weight:</b>	2770 Lbs
<b>Outline Drawing:</b>	239C6801GC	<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>	49BD1177A	<b>Ambient Max(°C):</b>	40
<b>Type:</b>	KS	<b>Alt Ambient Max(°C):</b>	--
<b>Frame:</b>	447TC	<b>Insulation Class:</b>	H
<b>Phases:</b>	3	<b>NEMA Design:</b>	B
<b>Poles:</b>	4	<b>Nominal Efficiency:</b>	96.2 %
<b>Output Power:</b>	200HP 148KW	<b>Guaranteed Efficiency:</b>	95.8 %
<b>RPM:</b>	1790	<b>3/4 Load Efficiency:</b>	--
<b>Voltage:</b>	460	<b>KVA Code:</b>	G
<b>Hertz:</b>	60	<b>Max KVAR:</b>	43.5
<b>Amps - FL:</b>	219.0	<b>Power Factor:</b>	89.0
<b>Service Factor:</b>	1.15	<b>Bearing - DE:</b>	6318ZC3
<b>Alt Service Factor:</b>	--	<b>Bearing - ODE:</b>	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:5KS447XAA200 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 215C 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 45 - 60 HZ, CHP 60 - 75 HZ.



**Additional Information:**

4P - T EXTN  
PAINTED FRAME ID & SHAFT,  
FAN COVER INSIDE & ODE E/S OUTSIDE  
C FACE WITH 16.00 RABBIT ON DE  
C/BOX 700 CU IN - 3.00" NPT WITH DRAIN HOLES  
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: 49BD1177A**

**Marks:**

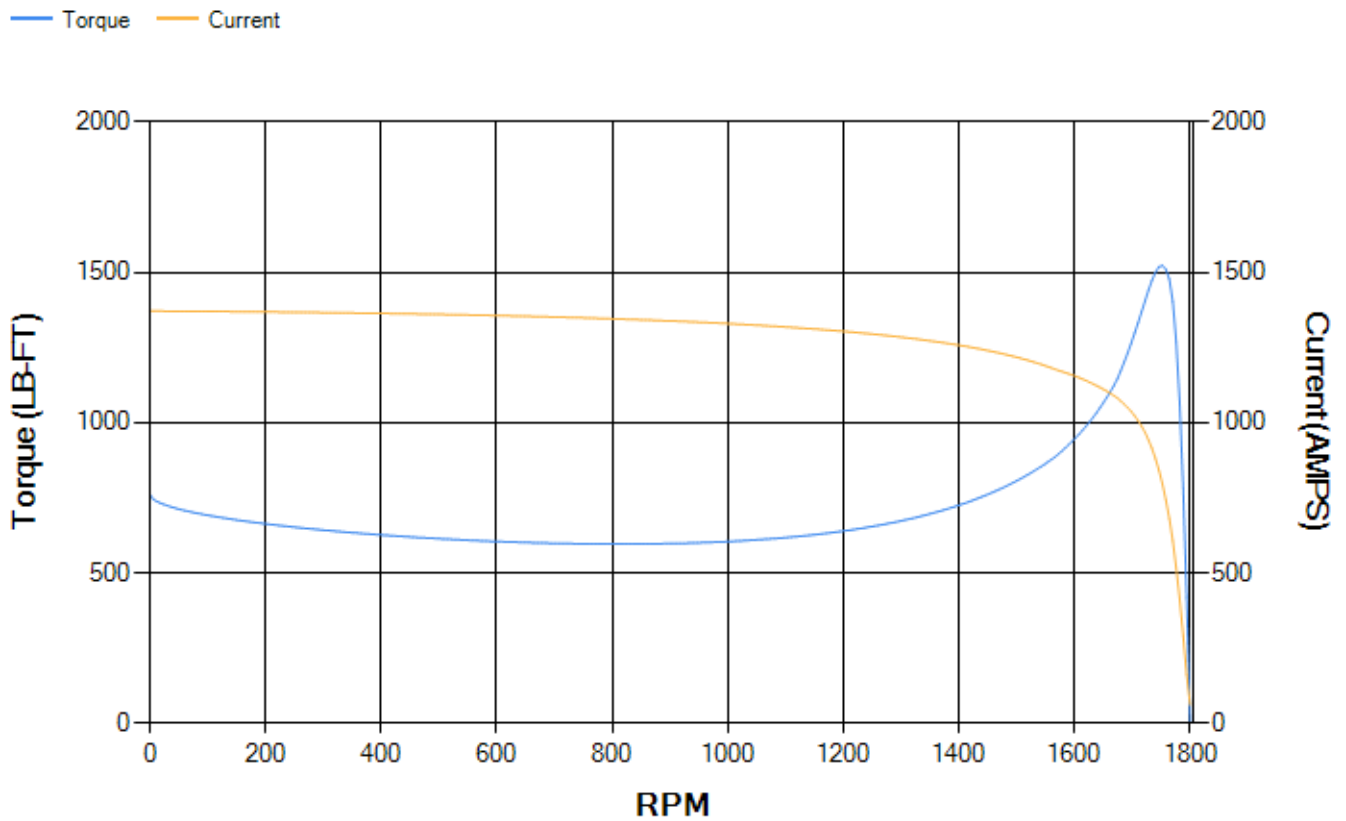
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	95.58	95.82	96.34	96.52	96.53	95.25	0.00
% PF	89.2	89.16	88.76	86.63	80.37	60.76	3.08
AMPS	274.46	251.96	218.92	167.91	120.64	80.86	60.67

<b>TORQ(FL)#FT</b>	586.55	<b>TORQ(LR)%FL</b>	130.07	<b>TORQ(BD)%FL</b>	259.52
<b>AMPS(LR)</b>	1371.64	<b>PF AT START</b>	0.25		

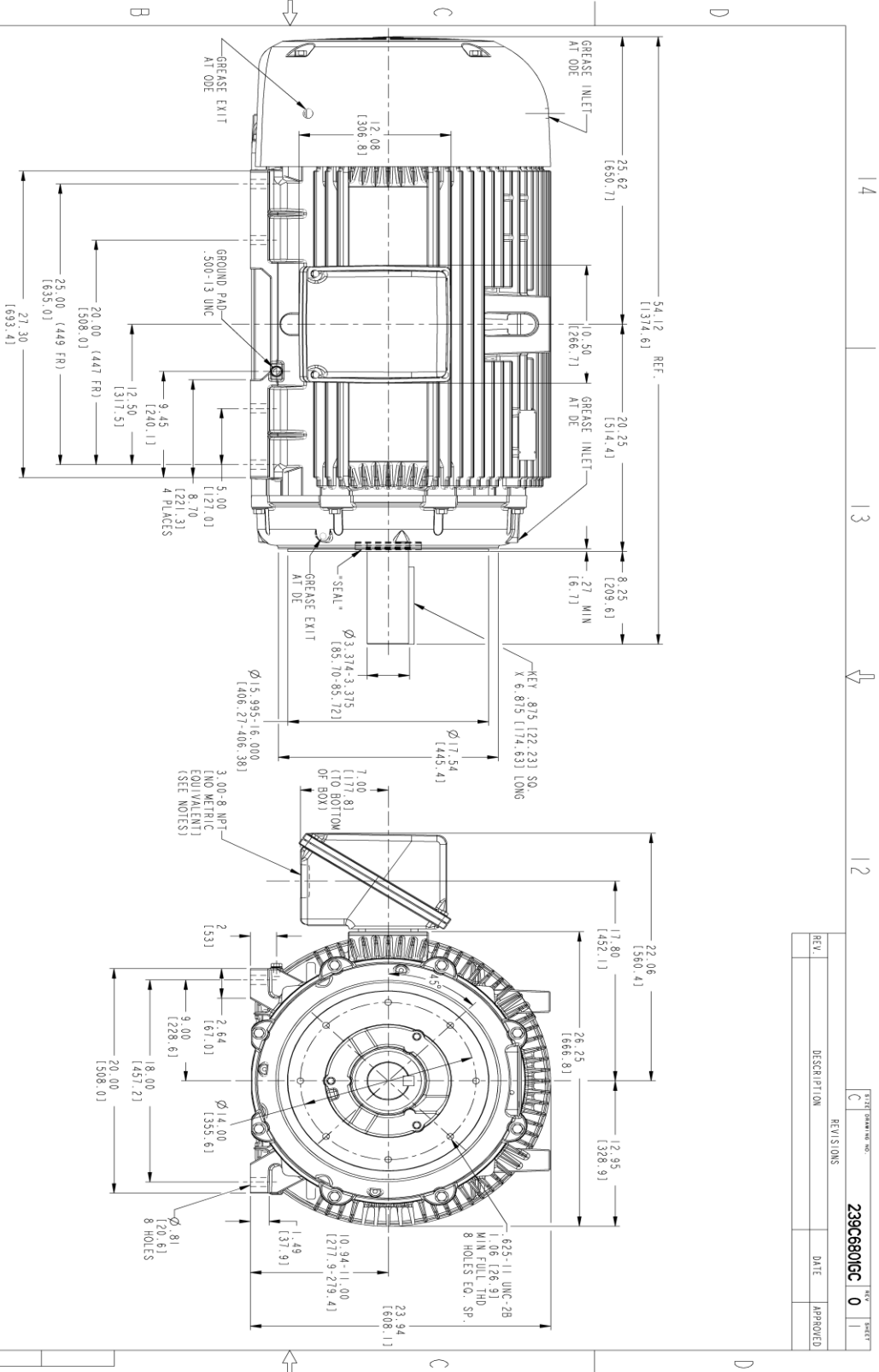
This motor is capable of two cold or one hot start with a maximum connected load inertia of 4712 Lb-Ft Sq (198.38 Kg-meter Sq)at 100% voltage, where the load torque varies with the square of the speed. Acceleration time with maximum inertia and the above load type is 54 seconds. Safe stall time at 100% voltage is 163 seconds cold, 84 seconds hot. Rotor inertia is 105.05 Lb-Ft Sq (4.42 Kg-meter Sq).

<b>Open Circuit A-C:</b>	1.749	<b>Short Circuit D-C:</b>	0.027
<b>Short Circuit A-C:</b>	0.07	<b>X/R Ratio:</b>	10.252
<b>Stator Slots:</b>	72	<b>Rotor Slots:</b>	58

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



Marks:



- NOTES:
1. CONDUIT BOX MAY BE PLACED WITH THE ENTRANCE DOWN, UP OR ON EITHER SIDE.
  2. F-1 ASSEMBLY AS SHOWN.
  3. F-2 ASSEMBLY CONDUIT BOX ON OPPOSITE SIDE.
  4. TOLERANCE ON PERMISSIBLE SHAFT EXTENSION RIMOUT IS .0015 T.I.R.
  5. ALL DIMENSIONS ARE IN INCHES BRACKETED DIMENSIONS ARE IN METRIC (MILLIMETER).

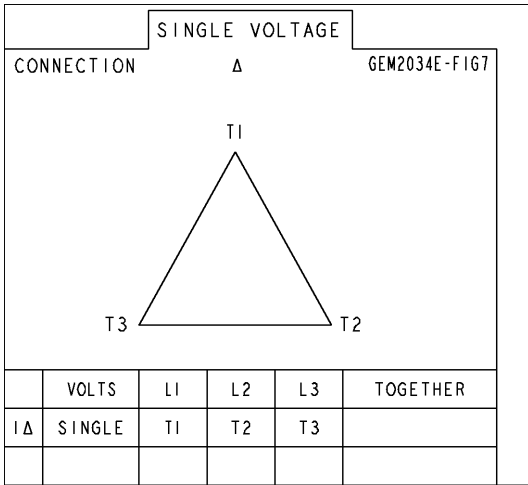


SIGNATURES		DATE	
MODEL	DEFMANI	07/05/16	
DETAIL	DEFMANI	07/05/16	
CHECKED	MANTIK	07/05/16	
DESIGN	DEFMANI	07/05/16	
W/E			
QUALITY			
ISSUED	DEFMANI	07/05/16	
TITLE			
<b>GENERAL ELECTRIC COMPANY</b> OUTLINE 447/449 TC TEFC XSD 841 700 CU. IN. CONDUIT BOX, INPRO SEAL, GRD PAD 239C6801GC 0			
SCALE: 0.175		REF. No. 239C6801GC	
SHEET 1 OF 1		DISTRIBUTION:	

REV.	DESCRIPTION	DATE	APPROVED
0			

**Marks:**

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



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	115E4357AA1	115E4355LM1
Bearing	235A2514AG01	235A2514AG01
Slinger/Inproseal	235A4575GS5	235A4575GS5

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	159C7100AA2
Fan Cover	128D6841AA1

Conduit & Accessories Box Assembly	
Part Description	Part#
Conduit Box	118D4408DG2

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

