



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

# Product Technical Information

January 28, 2021

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

<b>Model Number:</b>	<b>5KS404SAA408D8</b>
<b>Catalog Number:</b>	<b>M9773</b>
<b>Instruction Manual:</b>	GEI-56128
<b>Connection Diagram:</b>	GEM2034E-FIG7
<b>Outline Drawing:</b>	239C6400ZJ

## 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		

## Table of Contents

Specification	01
Performance Characteristics	02
Outline Drawing	03
Connection Drawing(s)	04
Spare parts	05

Marks:

<b>MODEL NUMBER:</b>	<b>5KS404SAA408D8</b>	<b>Estimated Weight:</b>	1390 Lbs
<b>Outline Drawing:</b>	239C6400ZJ	<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>	40BD4022A	<b>Ambient Max(°C):</b>	40
<b>Type:</b>	KS	<b>Alt Ambient Max(°C):</b>	--
<b>Frame:</b>	404T	<b>Insulation Class:</b>	H
<b>Phases:</b>	3	<b>NEMA Design:</b>	B
<b>Poles:</b>	8	<b>Nominal Efficiency:</b>	92.4 %
<b>Output Power:</b>	50HP 37KW	<b>Guaranteed Efficiency:</b>	91.7 %
<b>RPM:</b>	890	<b>3/4 Load Efficiency:</b>	--
<b>Voltage:</b>	460	<b>KVA Code:</b>	G
<b>Hertz:</b>	60	<b>Max KVAR:</b>	29.3
<b>Amps - FL:</b>	72.9	<b>Power Factor:</b>	69.5
<b>Service Factor:</b>	1.15	<b>Bearing - DE:</b>	6316ZC3
<b>Alt Service Factor:</b>	--	<b>Bearing - ODE:</b>	6316ZC3

Enclosure is Totally Enclosed Fan-Cooled

---

Stamped Nameplate Notes:

IEEE-STD-841-2009  
 DE BRG 80BC03JP3, ODE BRG 80BC03JP3  
 STAMP NP249A5564P051 AS BELOW:  
 MODEL:5KS404SAA408D8 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 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 15 - 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  
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: 40BD4022A**

**Marks:**

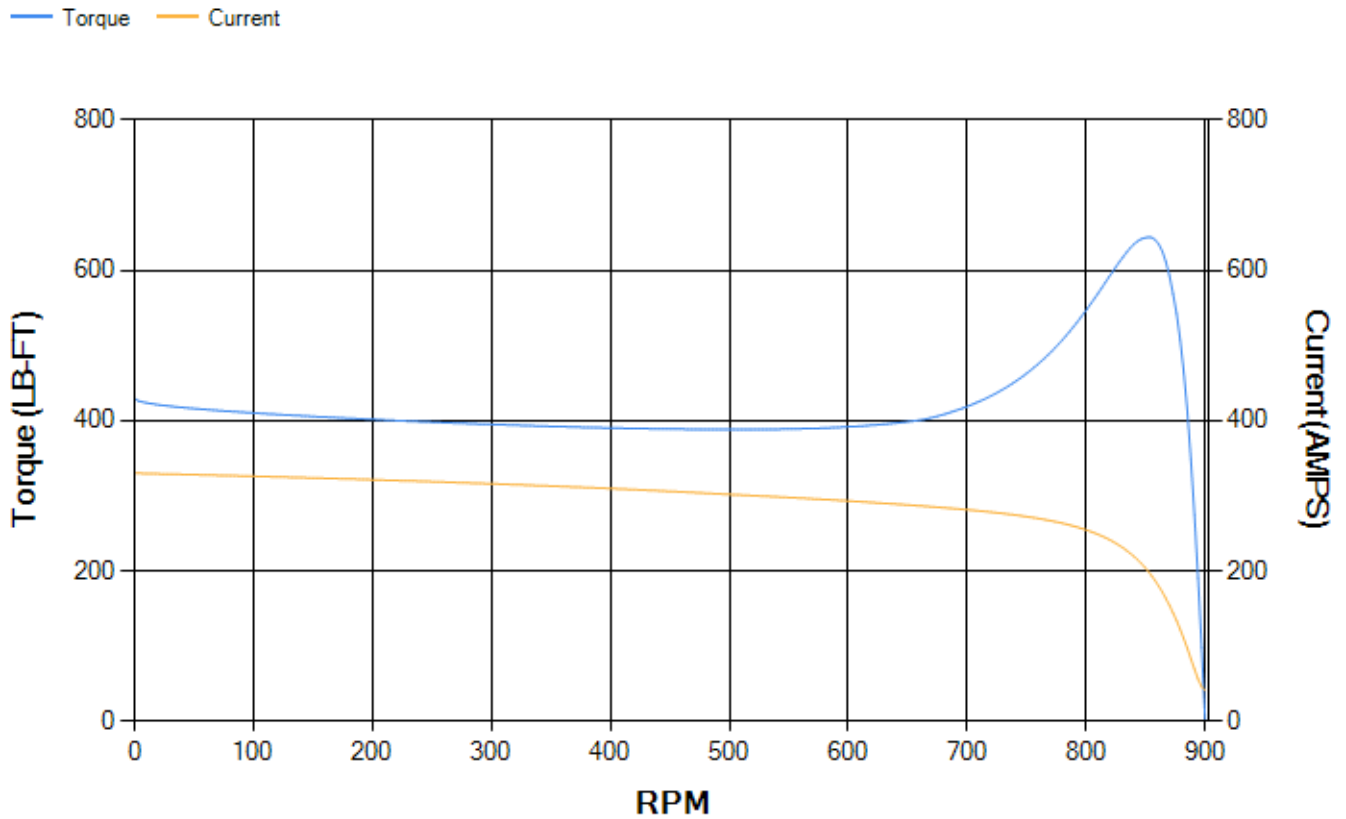
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	92.09	92.43	93.02	93.06	92.34	88.39	0.00
% PF	73.12	71.99	69.5	62.49	50.15	30.24	3.03
AMPS	86.87	80.87	72.34	60.35	50.53	43.77	40.83

<b>TORQ(FL)#FT</b>	295.22	<b>TORQ(LR)%FL</b>	145.53	<b>TORQ(BD)%FL</b>	217.69
<b>AMPS(LR)</b>	330.02	<b>PF AT START</b>	0.36		

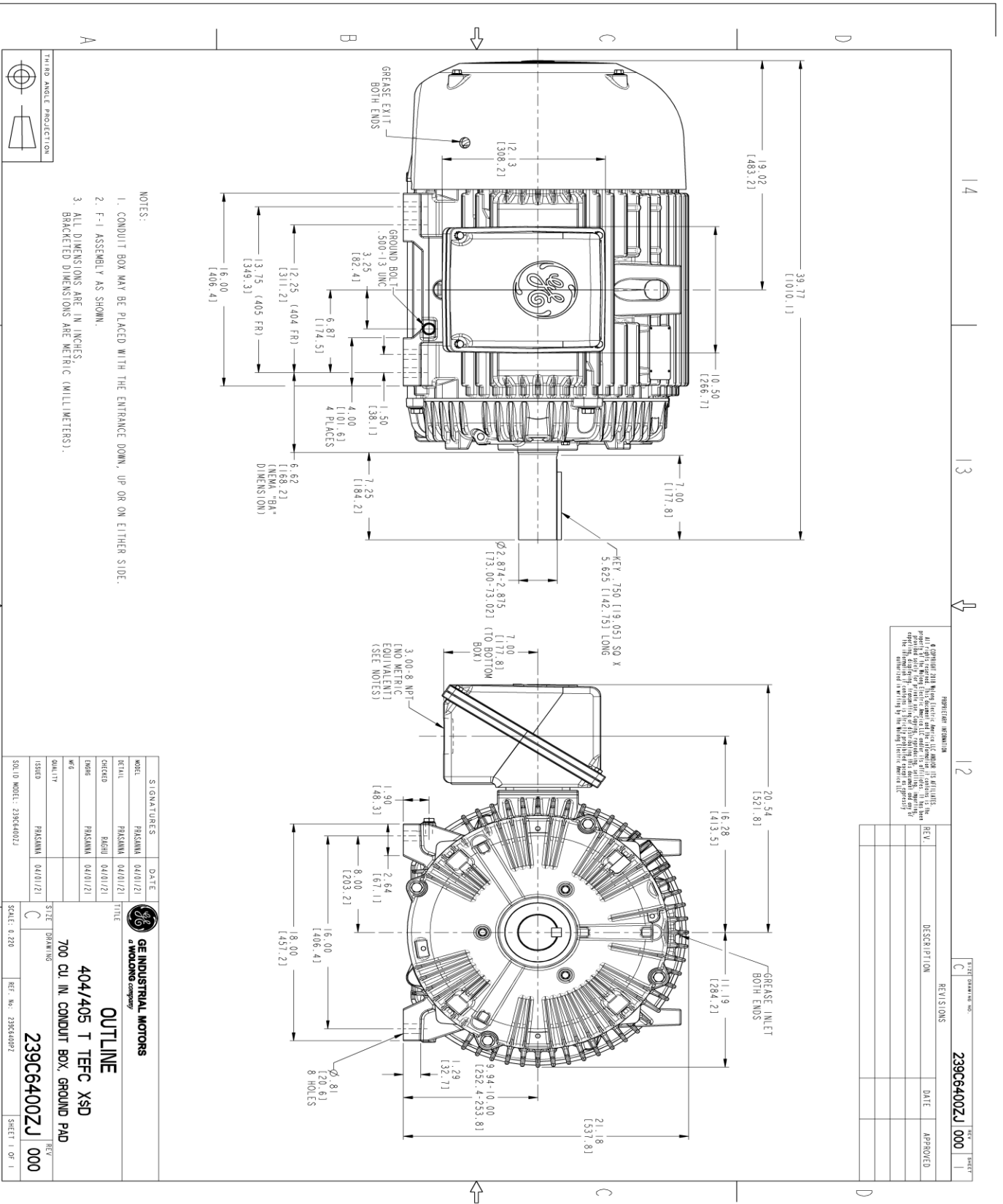
This motor is capable of two cold or one hot start with a maximum connected load inertia of 4530 Lb-Ft Sq (190.71 Kg-meter Sq)at 100% voltage, where the load torque varies with the square of the speed. Acceleration time with maximum inertia and the above load type is 41 seconds. Safe stall time at 100% voltage is 118 seconds cold, 62 seconds hot. Rotor inertia is 25.93 Lb-Ft Sq (1.09 Kg-meter Sq).

<b>Open Circuit A-C:</b>	0.346	<b>Short Circuit D-C:</b>	0.019
<b>Short Circuit A-C:</b>	0.038	<b>X/R Ratio:</b>	7.257
<b>Stator Slots:</b>	72	<b>Rotor Slots:</b>	58

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



Marks:



**PROHIBITION INFORMATION**  
 All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage and retrieval system, without the prior written permission of General Electric. The information contained herein is the property of General Electric. The information contained herein is the property of General Electric. The information contained herein is the property of General Electric.

TITLE DRAWING NO.		239C6400ZJ 000	
REV.	DESCRIPTION	DATE	APPROVED

- NOTES:
1. CONDUIT BOX MAY BE PLACED WITH THE ENTRANCE DOWN, UP OR ON EITHER SIDE.
  2. F-1 ASSEMBLY AS SHOWN.
  3. ALL DIMENSIONS ARE IN INCHES. BRACKETED DIMENSIONS ARE METRIC (MILLIMETERS).



SIGNATURES	DATE	<p><b>GE INDUSTRIAL MOTORS</b>                  a WOLSKING COMPANY</p> <p><b>OUTLINE</b>                  404/405 T TEFC XSD                  700 CU IN CONDUIT BOX, GROUND PAD</p> <p>239C6400ZJ                  000</p>
MODEL	04/01/21	
DESIGNED BY	04/01/21	
CHECKED BY	04/01/21	
DATE	04/01/21	
ISSUED BY	04/01/21	
SCALE: 0.250		REV. NO.: 239C6400Z
SHEET 1 OF 1		

**Marks:**

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



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	115E4304AA1	115E4304LL1
Bearing	235A2518AC01	235A2518AC01
Slinger/Inproseal	149C4399G06	149C4399G06

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	159C7100G02
Fan Cover	128D6832AA1

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

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

