



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

# Product Technical Information

June 23, 2020

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

<b>Model Number:</b>	<b>5KS145XAA404C</b>
<b>Catalog Number:</b>	<b>M9346</b>
<b>Instruction Manual:</b>	GEI-56128
<b>Connection Diagram:</b>	GEM2034E-FIG1
<b>Outline Drawing:</b>	4002B5814PAP5311

## 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>5KS145XAA404C</b>	<b>Estimated Weight:</b>	50 Lbs
<b>Outline Drawing:</b>	4002B5814PAP5311	<b>Time Rating:</b>	CONT
<b>Connection Diagram:</b>	GEM2034E-FIG1	<b>Enclosure:</b>	TEFC
<b>Instruction Book:</b>	GEI-56128	<b>Encl Construction:</b>	841
<b>Design Code:</b>	14BD4008BA	<b>Ambient Max(°C):</b>	40
<b>Type:</b>	KS	<b>Alt Ambient Max(°C):</b>	--
<b>Frame:</b>	145T	<b>Insulation Class:</b>	H
<b>Phases:</b>	3	<b>NEMA Design:</b>	--
<b>Poles:</b>	8	<b>Nominal Efficiency:</b>	70 %
<b>Output Power:</b>	0.75HP 0.6KW	<b>Guaranteed Efficiency:</b>	68.0 %
<b>RPM:</b>	850	<b>3/4 Load Efficiency:</b>	--
<b>Voltage:</b>	575	<b>KVA Code:</b>	P
<b>Hertz:</b>	60	<b>Max KVAR:</b>	0.9
<b>Amps - FL:</b>	1.5	<b>Power Factor:</b>	54.0
<b>Service Factor:</b>	1.15	<b>Bearing - DE:</b>	6205ZC3
<b>Alt Service Factor:</b>	--	<b>Bearing - ODE:</b>	6205ZC3

Enclosure is Totally Enclosed Fan-Cooled

---

Stamped Nameplate Notes:

DE BRG 25BC02JP30 ODE BRG 25BC02JP30  
 STAMP NP249A5564P051 AS BELOW:  
 MODEL:5KS145XAA404C S/N: XXX  
 CSA CERTIFIED CSA09.2216219 FOR EX NA IIC 200C 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 200C AT 1.15SF ON SINE-WAVE PWR  
 OR 200 C VT OR 200 C CT OR 200 C CHP PWM CONTROL  
 ALTERNATE RATING FOR PWM CONTROL 1.0SF 40C AMB  
 VT 0-60 HZ, CT 3-60 HZ, CHP 60-90 HZ.  
 EXCEPTION TO IEEE-STD-841-2009: NEMA DESIGN "--"

Additional Information:

8P - T EXTN  
 STANDARD FLOOR MOUNT  
 C/BOX 30 CU IN-0.75 NPT  
 F1 CONDUIT BOX MOUNTING  
 PAINTED FRAME ID & SHAFT,  
 FAN COVER INSIDE & ODE E/S OUTSIDE  
 ROUTINE AND 5 POINT VIBRATION TESTS INCL IN C/BOX  
 INPRO SEAL BOTH ENDS  
 GROUND SCREW ON FRAME  
 SHAFT RUNOUT LIMIT .001" TIR  
 COPPER WASHER UNDER HEADS OF BEARING CAP BOLTS  
 APPLY TITE-SEAL (A50CD427A) ON BEARING CAP SCREWS, RABBETS,  
 AND PLUG THREADS  
 OIL RESISTANT SLEEVING ON LEADS





**Performance Characteristics**

1st Winding 1st Connection

**Design: 14BD4008BA**

**Marks:**

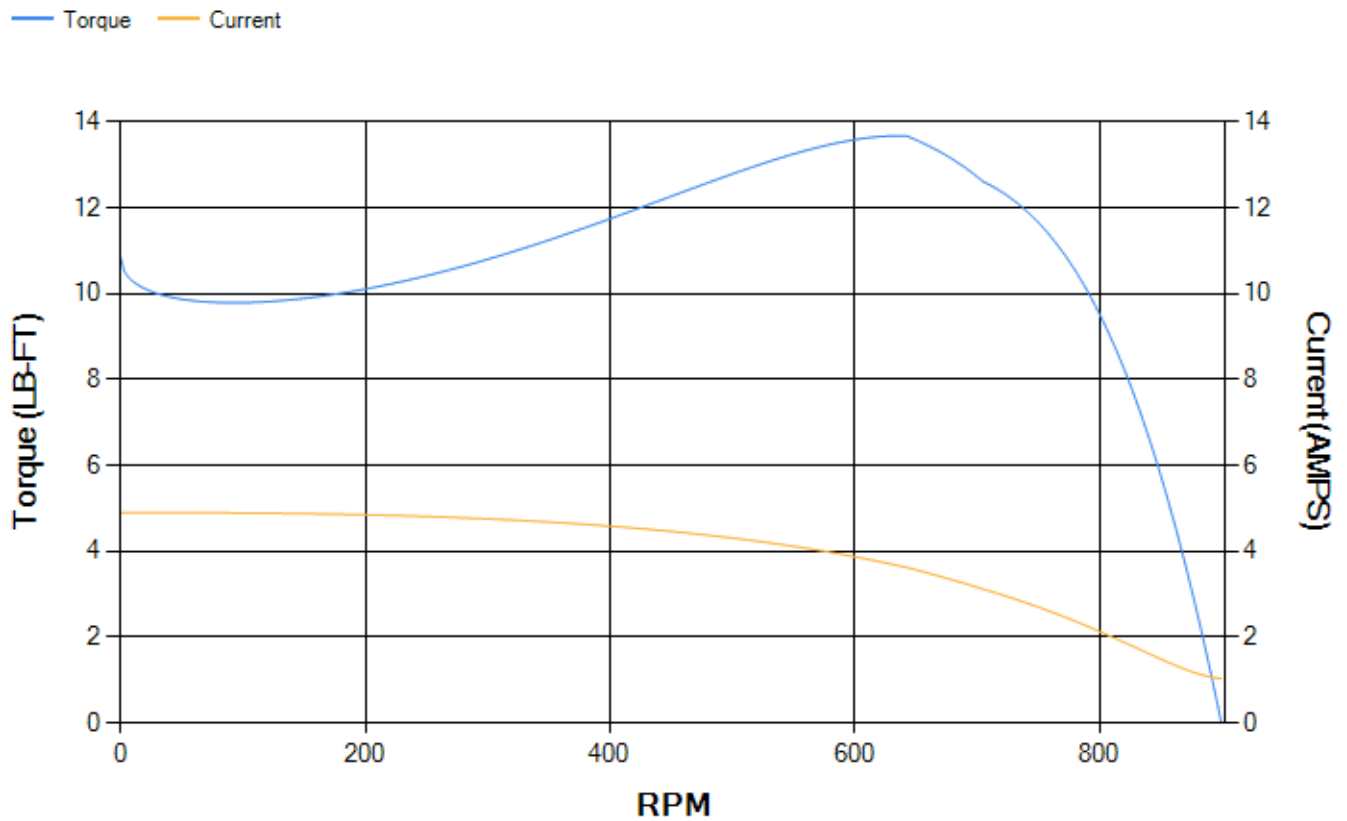
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	72.63	73.45	74.36	73.68	69.8	57.24	0.00
% PF	61.4	58.73	56.07	45.18	34.42	22.27	8.87
AMPS	1.57	1.5	1.37	1.27	1.17	1.1	1.04

<b>TORQ(FL)#FT</b>	4.64	<b>TORQ(LR)%FL</b>	233.77	<b>TORQ(BD)%FL</b>	281.77
<b>AMPS(LR)</b>	4.9	<b>PF AT START</b>	0.57		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 270 Lb-Ft Sq (11.37 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 78 seconds. Safe stall time at 100% voltage is 173 seconds cold, 114 seconds hot. Rotor inertia is 0.11 Lb-Ft Sq (0 Kg-meter Sq).

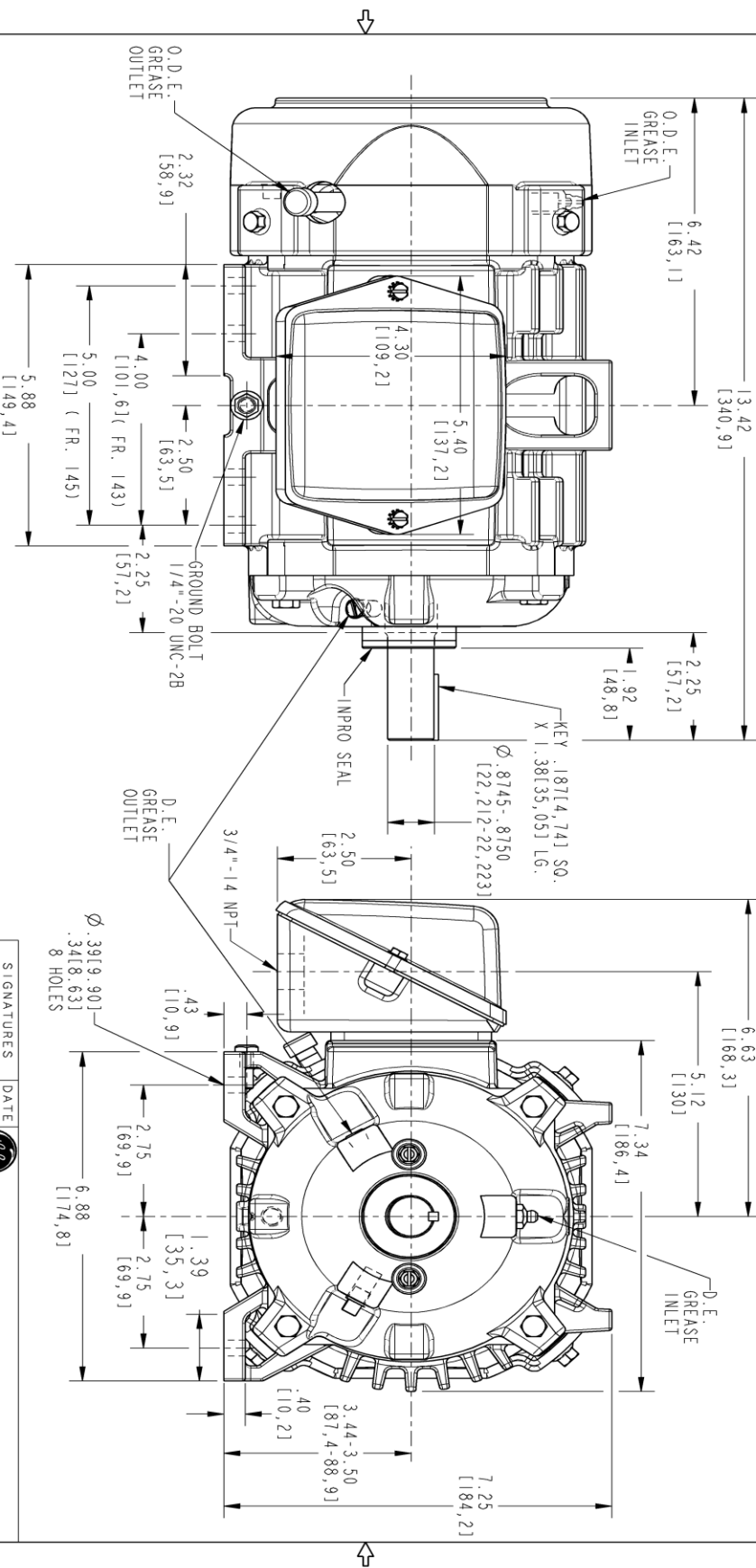
<b>Open Circuit A-C:</b>	0.047	<b>Short Circuit D-C:</b>	0.006
<b>Short Circuit A-C:</b>	0.007	<b>X/R Ratio:</b>	2.21
<b>Stator Slots:</b>	36	<b>Rotor Slots:</b>	48

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



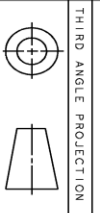
Marks:

NOTE 1: CONDUIT BOX MAY BE ASSEMBLED WITH ENTRANCE UP, DOWN OR TO EITHER SIDE.  
 NOTE 2: F1 ASSEMBLY AS SHOWN. F2 ASSEMBLY CONDUIT BOX ON OPPOSITE SIDE FROM SHOWN LOCATION.  
 NOTE 3: SHAFT RUNOUT WILL NOT EXCEED .001 T. I. R.  
 NOTE 4: ALL DIMENSIONS ARE IN INCHES, BRACKETED DIMENSIONS ARE IN METRIC (MILLIMETERS).



PROPRIETARY INFORMATION  
 © COPYRIGHT 2018 Wolog Electric America LLC AND/OR ITS AFFILIATES  
 All rights reserved. This document and the information it contains is the property of Wolog Electric America LLC and/or its affiliates. It has been provided solely for the use of the recipient for the specific project and any other use, reproduction, transmission, distribution, or disclosure of this information without the express written consent of Wolog Electric America LLC is strictly prohibited except as expressly authorized in writing by Wolog Electric America LLC.

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
1	ISAC# 15-0944	HARIKIRAN 09/24/15	SAGAR
2	ISAC# 16-0869	SREEDevi 10/23/18	PRASHANTH
3	ISAC# 20-0411	21/04/20	DHEERAJ



SIGNATURES	DATE
TEJASNI	06/03/15
TEJASNI	06/03/15
MARTIN	06/03/15
VENKAT	06/03/15

**GE INDUSTRIAL MOTORS**  
 a Wolog company

**INDUCTION MOTOR OUTLINE**  
 STANDARD CONSTRUCTION FOR IEEE-841 SPEC  
 FME: FR140T TFC

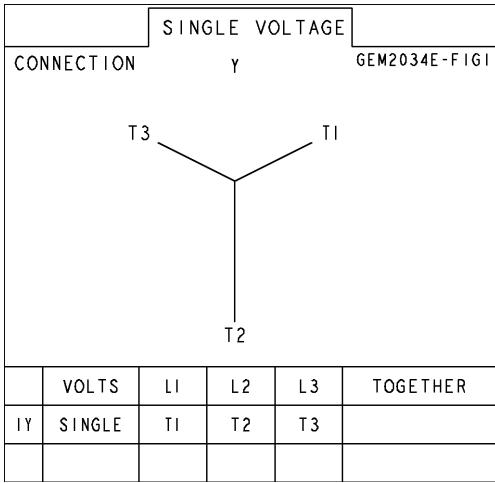
**4002B5814PAP5311**

SCALE: 0.500 REF. No.: 4002B5814PAP5301

SHEET 1 OF 1

**Marks:**

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



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	4004D5280PB1	4004D5280SG1
Bearing	235A2500AF01	235A2500AF01
Slinger/Inproseal	4002B5914AF1	4002B5914AG1

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	4001A5914AM-G01
Fan Cover	4003C5785PA1

Conduit & Accessories Box Assembly	
Part Description	Part#
Conduit Box	4002B5718PA-G01

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

