



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

# Product Technical Information

July 22, 2021

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

<b>Model Number:</b>	<b>5KS184SAA105D4</b>
<b>Catalog Number:</b>	<b>M240</b>
<b>Instruction Manual:</b>	GEI-56128
<b>Connection Diagram:</b>	GEM2034E-FIG3
<b>Outline Drawing:</b>	4002B5818PAP5933

## 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>5KS184SAA105D4</b>	<b>Estimated Weight:</b>	101 Lbs
<b>Outline Drawing:</b>	4002B5818PAP5933	<b>Time Rating:</b>	CONT
<b>Connection Diagram:</b>	GEM2034E-FIG3	<b>Enclosure:</b>	TEFC
<b>Instruction Book:</b>	GEI-56128	<b>Encl Construction:</b>	841
<b>Design Code:</b>	18BD0103A	<b>Ambient Max(°C):</b>	40
<b>Type:</b>	KS	<b>Alt Ambient Max(°C):</b>	--
<b>Frame:</b>	184T	<b>Insulation Class:</b>	H
<b>Phases:</b>	3	<b>NEMA Design:</b>	B
<b>Poles:</b>	2	<b>Nominal Efficiency:</b>	88.5 %
<b>Output Power:</b>	5HP 3.7KW	<b>Guaranteed Efficiency:</b>	87.5 %
<b>RPM:</b>	3530	<b>3/4 Load Efficiency:</b>	--
<b>Voltage:</b>	230/460	<b>KVA Code:</b>	J
<b>Hertz:</b>	60	<b>Max KVAR:</b>	1.9
<b>Amps - FL:</b>	13.2/6.6	<b>Power Factor:</b>	80.0
<b>Service Factor:</b>	1.15	<b>Bearing - DE:</b>	6206ZC3
<b>Alt Service Factor:</b>	--	<b>Bearing - ODE:</b>	6206ZC3

Enclosure is Totally Enclosed Fan-Cooled

---

Stamped Nameplate Notes:

DE BRG 30BC02JP30 ODE BRG 30BC02JP30  
 EXCEPTION TO IEEE-STD-841-2009: DUAL VOLTAGE  
 STAMP NP249A5564P051 AS BELOW:  
 MODEL:5KS184SAA105D4 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 -40C <= AMB <= 40C, 1.0 SF ON SINE-WAVE PWR  
 SURF TEMP 200C 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 3-60 HZ, CHP 60-90 HZ.



**Additional Information:**

2P - T EXTN  
STANDARD FLOOR MOUNT  
C/BOX 55 CU IN-1.00 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  
GROUND SCREW ON FRAME  
SHAFT RUNOUT LIMIT .001" TIR  
OIL RESISTANT SLEEVING ON LEADS



**Performance Characteristics**

1st Winding 1st Connection

**Design: 18BD0103A**

**Marks:**

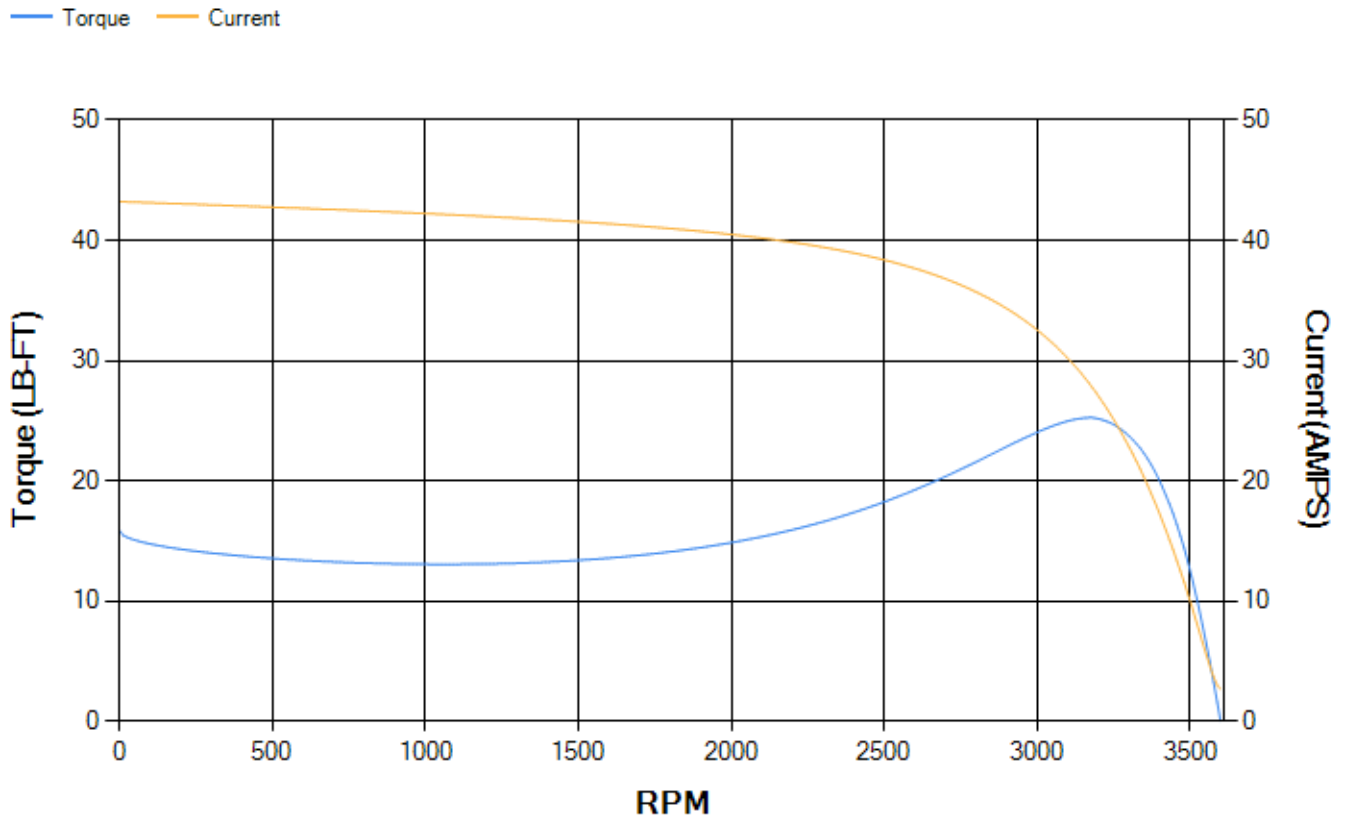
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	88.54	88.88	89.44	89.25	87.78	81.41	0.00
% PF	83.05	82.11	83.84	74.24	62.93	41.64	8.89
AMPS	7.96	7.37	6.24	5.3	4.24	3.45	2.67

<b>TORQ(FL)#FT</b>	7.44	<b>TORQ(LR)%FL</b>	213.15	<b>TORQ(BD)%FL</b>	336.72
<b>AMPS(LR)</b>	43.22	<b>PF AT START</b>	0.4		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 45 Lb-Ft Sq (1.89 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 38 seconds. Safe stall time at 100% voltage is 78 seconds cold, 57 seconds hot. Rotor inertia is 0.15 Lb-Ft Sq (0.01 Kg-meter Sq).

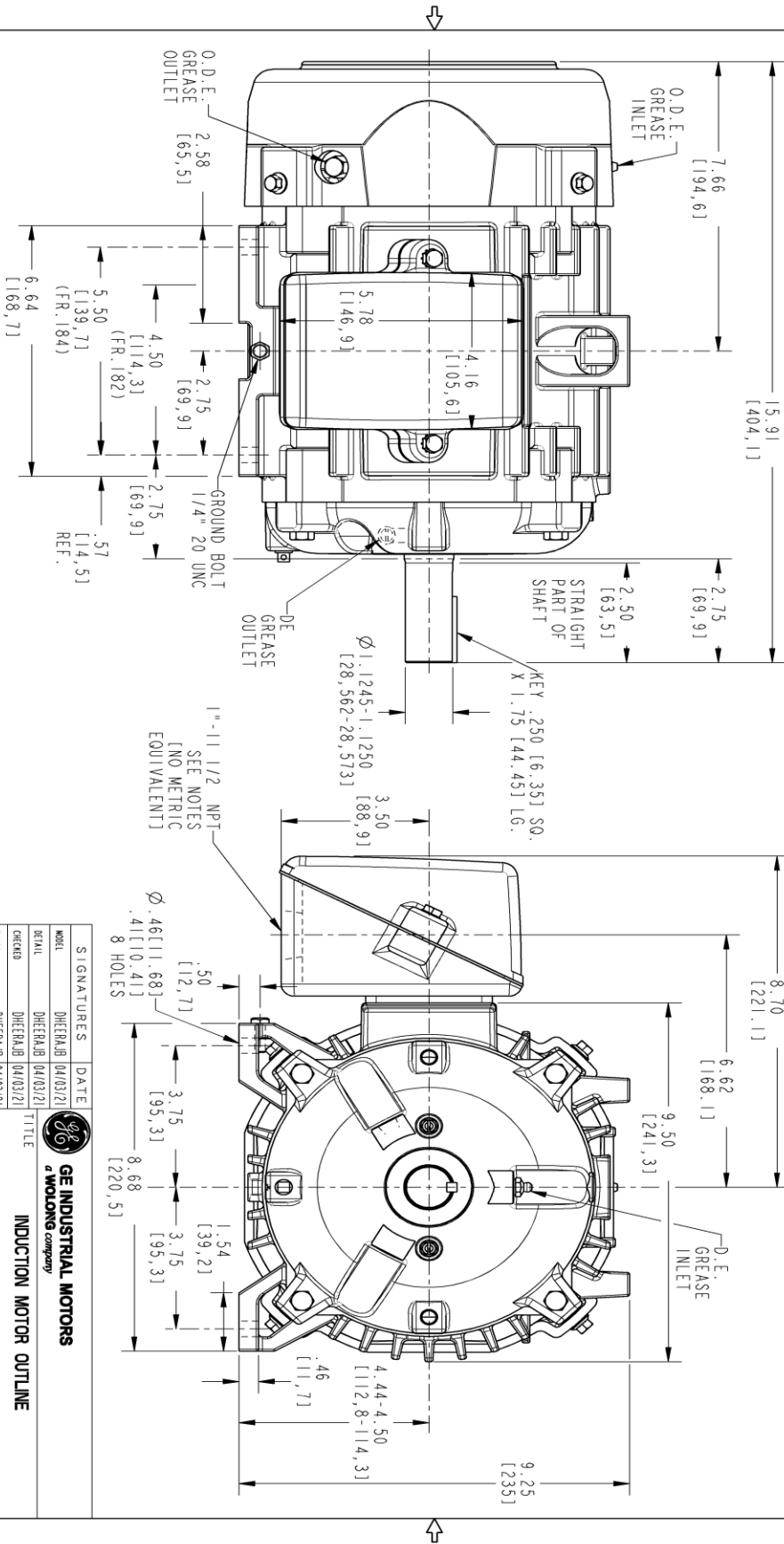
<b>Open Circuit A-C:</b>	0.299	<b>Short Circuit D-C:</b>	0.01
<b>Short Circuit A-C:</b>	0.017	<b>X/R Ratio:</b>	3.957
<b>Stator Slots:</b>	36	<b>Rotor Slots:</b>	28

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



Marks:

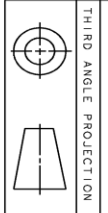
NOTE 1: CONDUIT BOX MAY BE ASSEMBLED WITH ENTRANCE UP, DOWN OR TO EITHER SIDE.  
 NOTE 2: F1 ASSEMBLY AS SHOWN.  
 NOTE 3: SHAFT RUNOUT WILL NOT EXCEED .001 T.I.R.  
 NOTE 4: ALL DIMENSIONS ARE IN INCHES, BRACKETED DIMENSIONS ARE IN METRIC (MILLIMETERS).



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 transmission to the recipient for the specific purpose identified in the drawing. It is not to be distributed, copied, or used in any way other than as expressly authorized in writing by Wolog Electric America LLC.

REV.	DESCRIPTION	DATE	APPROVED

SIZE DRAWING NO.	B	REV	0	SHEET	1
4002B5818PAP5933					
REVISIONS					



SIGNATURES	DATE	<p><b>GE INDUSTRIAL MOTORS</b>                  a Wolog company</p> <p><b>INDUCTION MOTOR OUTLINE</b>                  STANDARD CONSTRUCTION</p> <p>FR182/94 T TERC</p>
MODEL	DHEERABJ 04/03/21	
DETAIL	DHEERABJ 04/03/21	
CREATED	DHEERABJ 04/03/21	
CHKD	DHEERABJ 04/03/21	
QUALITY	DHEERABJ 04/03/21	SIZE DRAWING
ISSUED	B	4002B5818PAP5933
SOLID MODEL	4002B5818PAP5933	SCALE: 0.400
		REF. No.: 4002B5818PAP5933
		SHEET 1 of 1

Marks:

**Connection Diagram**  
**GEM2034E-FIG3**



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	4004D5281PB1	4004D5281SG1
Bearing	235A2502AM01	235A2502AM01
Slinger/Inproseal	149C4399G16	149C4399G16

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	4001A5914AM-G01
Fan Cover	4003C5786PA1

Conduit & Accessories Box Assembly	
Part Description	Part#
Conduit Box	4002B5721PA-G01

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

