

# Product Information Packet

November 8, 2016

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

<b>Model Number:</b>	<b>5KS184XAA104D4</b>
<b>Catalog Number:</b>	<b>M9492</b>
<b>Instruction Manual:</b>	GEI-56128
<b>Connection Diagram:</b>	GEM2034E-FIG1
<b>Outline Drawing:</b>	4002B5818PAP5311

## 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>5KS184XAA104D4</b>	<b>Estimated Weight:</b>	101 Lbs
<b>Outline Drawing:</b>	4002B5818PAP5311	<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>	18BD0103B	<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>	89.2
<b>Voltage:</b>	575	<b>KVA Code:</b>	J
<b>Hertz:</b>	60	<b>Max KVAR:</b>	1.9
<b>Amps - FL:</b>	5.3	<b>Power Factor:</b>	80.5
<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:**

IEEE-STD-841-2009  
 DE BRG 30BC02JP30 ODE BRG 30BC02JP30  
 STAMP NP249A5564P051 AS BELOW:  
 MODEL:5KS184XAA104D4 S/N: XXX  
 CSA CERTIFIED CSA09.2216219 FOR EX NA IIC 200 C GC  
 CL1 ZONE2 AEXNAIIC 200C FOR CL1DIV2 GRP ABCD 200C  
 IN -25C <= AMB <= 40C, 1.0 SF ON SINE-WAVE PWR  
 SURF TEMP 200 C AT 1.15 SF ON SINE-WAVE PWR  
 OR 200 C VT OR 215 C CT OR 200 C CHP PWM CONTROL  
 ALTERNATE RATING FOR PWM CONTROL 1.0 SF 40 C 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  
 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: 18BD0103B**

**Marks:**

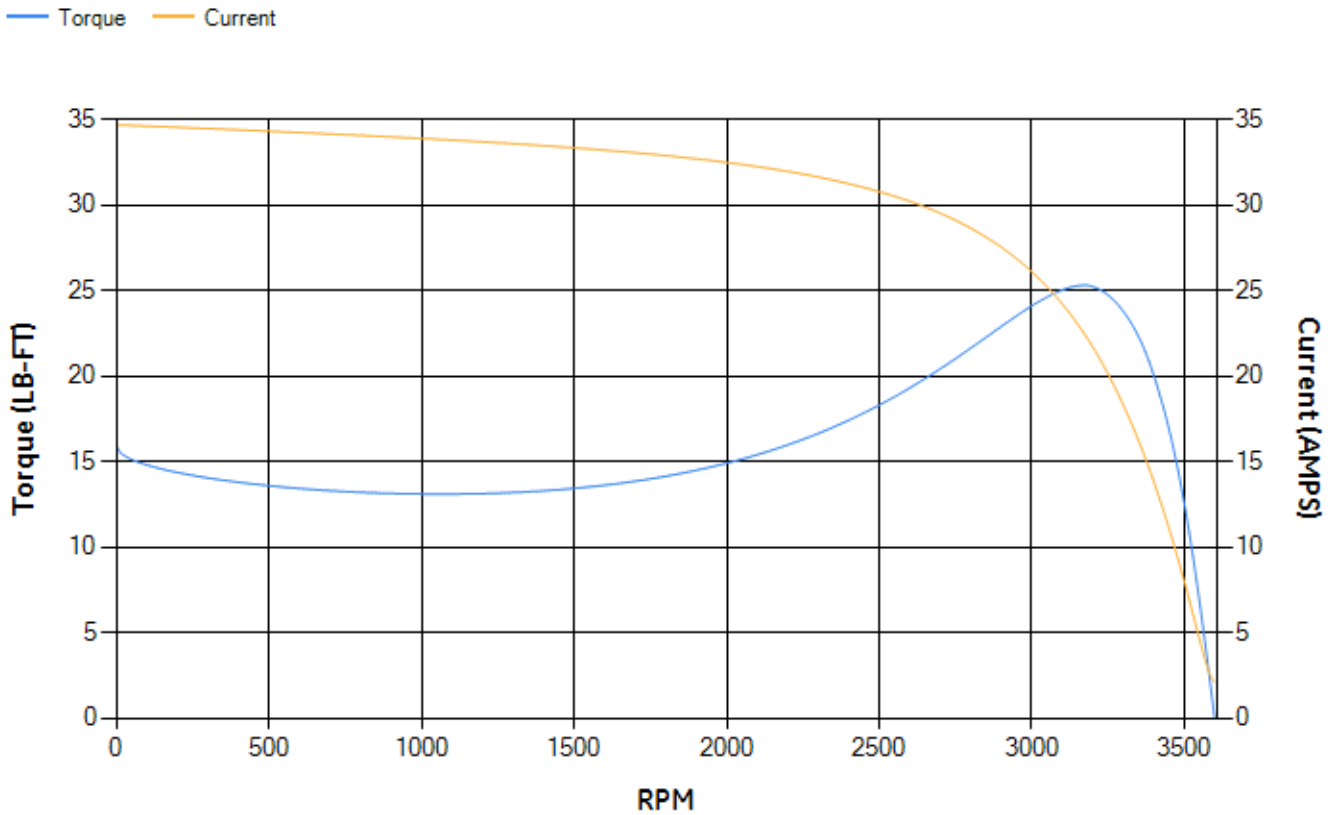
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	88.52	88.87	89.43	89.24	87.78	81.4	0.00
% PF	83.36	82.44	84.16	74.7	63.47	42.15	9.03
AMPS	6.34	5.88	4.97	4.21	3.36	2.73	2.1

TORQ(FL)#FT	7.44	TORQ(LR)%FL	213.81	TORQ(BD)%FL	337.54
AMPS(LR)	34.68	PF AT START	0.41		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 44 Lb-Ft Sq (1.85 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 37 seconds. Safe stall time at 100% voltage is 77 seconds cold, 56 seconds hot. Rotor inertia is 0.16 Lb-Ft Sq (0.01 Kg-meter Sq).

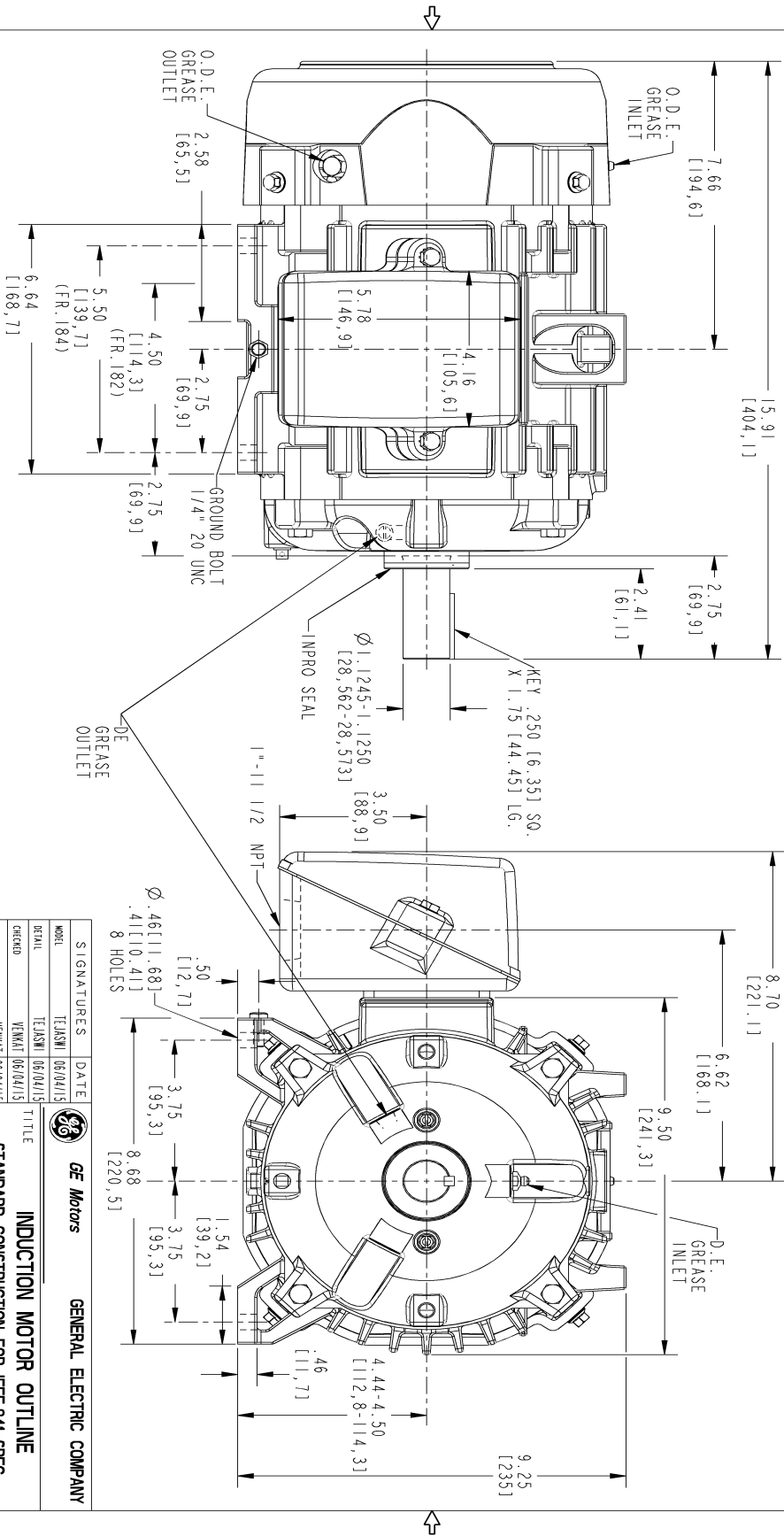
Open Circuit A-C:	0.304	Short Circuit D-C:	0.01
Short Circuit A-C:	0.017	X/R Ratio:	3.891
Stator Slots:	36	Rotor Slots:	28

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



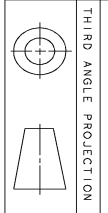
Marks:

NOTE 1: CONDUIT BOX MAY BE ASSEMBLED WITH ENTRANCE UP, DOWN OR TO EITHER SIDE.  
 NOTE 2: F1 ASSEMBLY AS SHOWN. 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).



SIZE	DRAWING NO.	REV	SHEET
B	4002B5818PAP5311 2		1

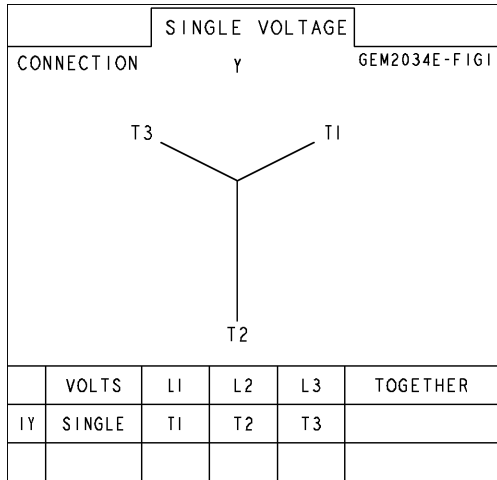
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
1	ISAAC #15-0731	07/17/15	KARTHIK
2	ISAAC #16-0079	01/28/16	SRAVANTHI D



SIGNATURES		DATE	 <b>GE Motors</b> GENERAL ELECTRIC COMPANY
MODEL	TEJASNI	06/04/15	
DETAIL	TEJASNI	06/04/15	
CHECKED	VENKAT	06/04/15	
ENGR	VENKAT	06/04/15	
QC			
QUALITY	TEJASNI	06/04/15	
ISSUED			
TITLE <b>INDUCTION MOTOR OUTLINE</b> STANDARD CONSTRUCTION FOR IEEE-841 SPEC FR182/184 T TEFC			
SIZE DRAWING <b>4002B5818PAP5311 2</b>		REV	
SCALE: 0.400 REF. No.: 4002B5818PAP5301		SHEET	1 of 1

Marks:

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



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	4004D5281PB1	4004D5281SG1
Bearing	235A2602AA01	235A2602AA01
Slinger/Inproseal	4002B5914AF2	4002B5914AG2

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	