

# Product Information Packet

November 8, 2016

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

<b>Model Number:</b>	<b>5KS284XAA304D3</b>
<b>Catalog Number:</b>	<b>M9569</b>
<b>Instruction Manual:</b>	GEI-56128
<b>Connection Diagram:</b>	GEM2034E-FIG1
<b>Outline Drawing:</b>	4002B5828PAP5311

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>5KS284XAA304D3</b>	<b>Estimated Weight:</b>	460 Lbs
<b>Outline Drawing:</b>	4002B5828PAP5311	<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>	28BD3093B	<b>Ambient Max(°C):</b>	40
<b>Type:</b>	KS	<b>Alt Ambient Max(°C):</b>	--
<b>Frame:</b>	284T	<b>Insulation Class:</b>	H
<b>Phases:</b>	3	<b>NEMA Design:</b>	B
<b>Poles:</b>	6	<b>Nominal Efficiency:</b>	91.7 %
<b>Output Power:</b>	15HP 11.1KW	<b>Guaranteed Efficiency:</b>	91.0
<b>RPM:</b>	1180	<b>3/4 Load Efficiency:</b>	92.1
<b>Voltage:</b>	575	<b>KVA Code:</b>	G
<b>Hertz:</b>	60	<b>Max KVAR:</b>	6.6
<b>Amps - FL:</b>	15.8	<b>Power Factor:</b>	77.5
<b>Service Factor:</b>	1.15	<b>Bearing - DE:</b>	6310ZC3
<b>Alt Service Factor:</b>	--	<b>Bearing - ODE:</b>	6310ZC3

**Enclosure is Totally Enclosed Fan-Cooled**

**Stamped Nameplate Notes:**

IEEE-STD-841-2009  
 DE BRG 50BC03JP30 ODE BRG 50BC03JP30  
 STAMP NP249A5564P051 AS BELOW:  
 MODEL:5KS284XAA304D3 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.

**Additional Information:**

6P - T EXTN  
 STANDARD FLOOR MOUNT  
 C/BOX 137 CU IN-1.50 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 .0015" 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: 28BD3093B**

**Marks:**

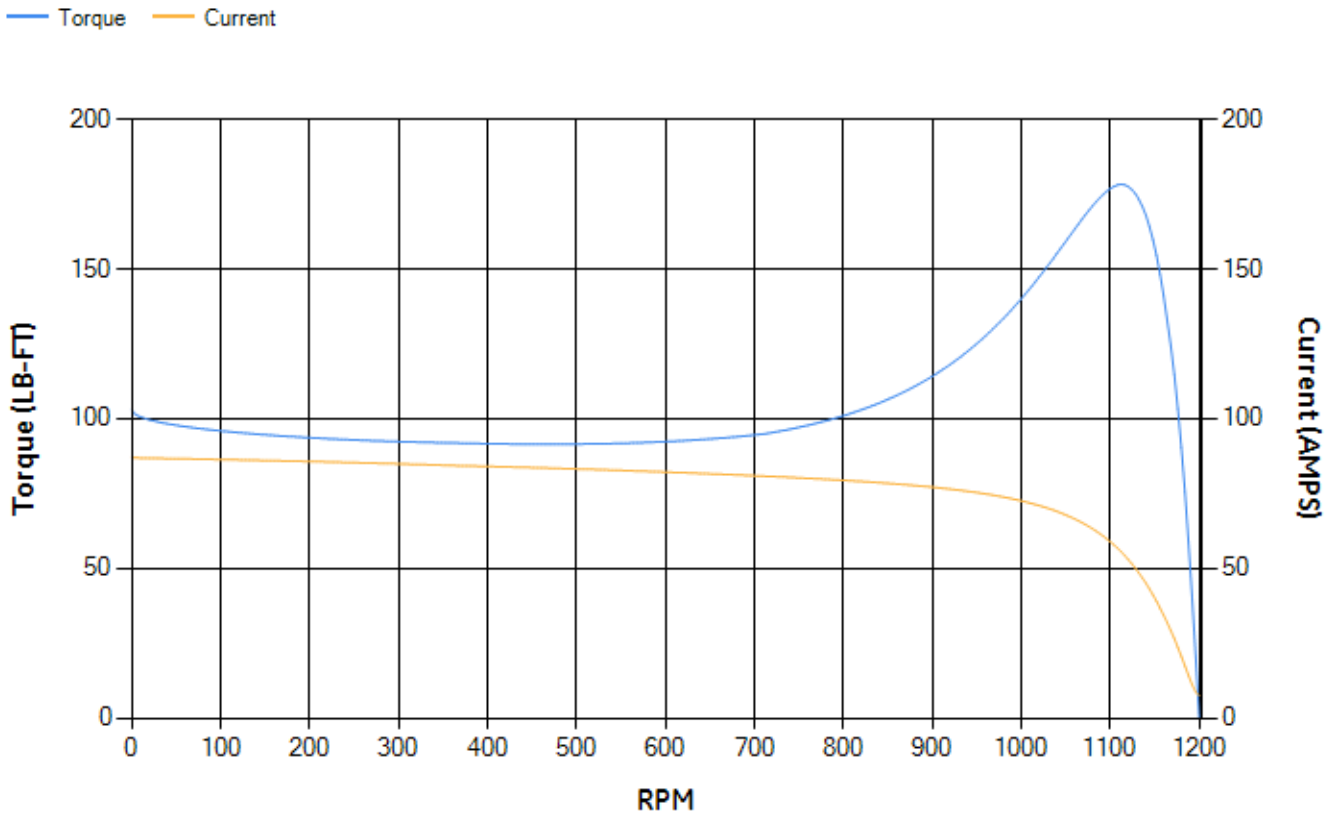
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	90.57	91.03	91.78	92.06	91.51	87.55	0.00
% PF	80.34	79.57	77.73	72.02	60.58	38.86	4.54
AMPS	19.29	17.83	15.76	12.71	10.13	8.25	7.42

<b>TORQ(FL)#FT</b>	66.61	<b>TORQ(LR)%FL</b>	154.57	<b>TORQ(BD)%FL</b>	266.96
<b>AMPS(LR)</b>	86.92	<b>PF AT START</b>	0.37		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 883 Lb-Ft Sq (37.17 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 40 seconds. Safe stall time at 100% voltage is 90 seconds cold, 59 seconds hot. Rotor inertia is 5.18 Lb-Ft Sq (0.22 Kg-meter Sq).

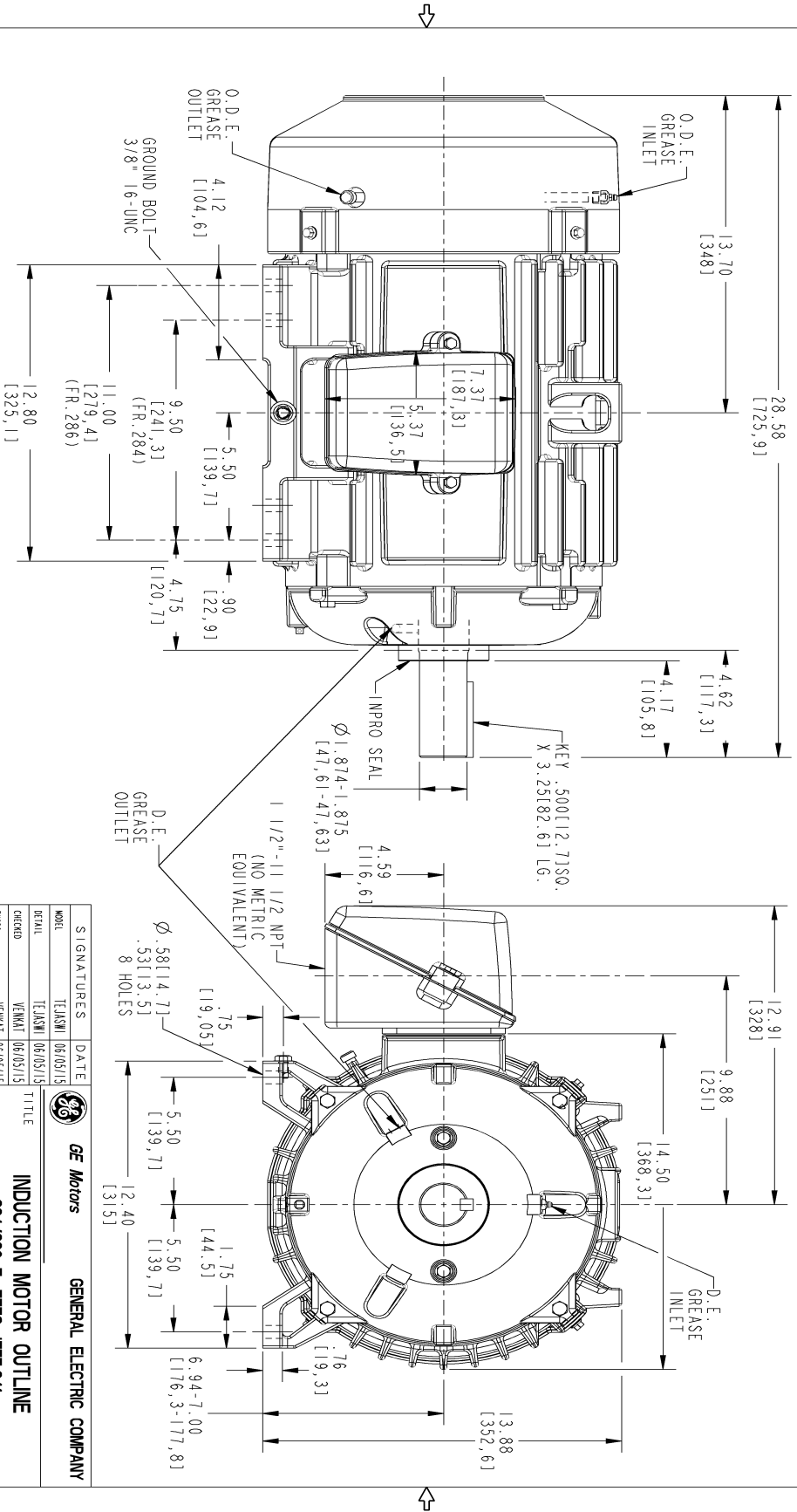
<b>Open Circuit A-C:</b>	0.358	<b>Short Circuit D-C:</b>	0.012
<b>Short Circuit A-C:</b>	0.027	<b>X/R Ratio:</b>	4.673
<b>Stator Slots:</b>	54	<b>Rotor Slots:</b>	42

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



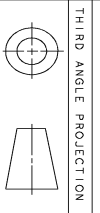
Marks:

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 .0015 T.I.R.  
 NOTE 4: ALL DIMENSIONS ARE IN INCHES. BRACKETED DIMENSIONS ARE IN METRIC (MILLIMETERS).



SIZE	DRAWING NO.	REV	SHEET
B	4002B5828PAP5311	0	1

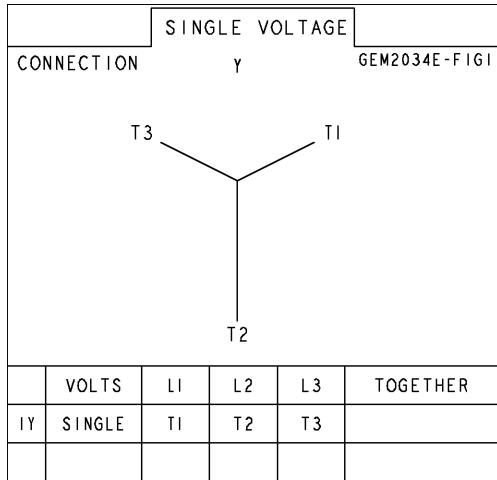
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED



SIGNATURES		DATE	
MODEL	TEJASWI	06/05/15	
DETAIL	TEJASWI	06/05/15	
CHECKED	VENKAT	06/05/15	
ENGR	VENKAT	06/05/15	
QUALITY	TEJASWI	06/05/15	
ISSUED			
SOLID MODEL: 4002B5828PAP5311			
TITLE		GENERAL ELECTRIC COMPANY	
INDUCTION MOTOR OUTLINE			
284/286 T, TEFC, IEEE-841			
CBOX 137 CUL - 150 NPT, IMPRO SEAL, GROUND PAD			
SIZE	DRAWING	REV	
B	4002B5828PAP5311	0	
SCALE: 0.250		REF. No:	4002B5828PAP5301
SHEET 1		OF 1	

Marks:

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



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	4004D5284PB1	4004D5284SE1
Bearing	235A2608AA01	235A2608AA01
Slinger/Inproseal	4002B5914AF5	4002B5914AG5

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	159C6900G01
Fan Cover	4003C5789PA1

Conduit & Accessories Box Assembly	
Part Description	Part#
Conduit Box	4002B5728PA-G01

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	