

# Product Information Packet

November 8, 2016

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

<b>Model Number:</b>	<b>5KS143XAA145B</b>
<b>Catalog Number:</b>	<b>M9400</b>
<b>Instruction Manual:</b>	GEI-56128
<b>Connection Diagram:</b>	GEM2034E-FIG1
<b>Outline Drawing:</b>	4002B5814PDP5310

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>5KS143XAA145B</b>	<b>Estimated Weight:</b>	43 Lbs
<b>Outline Drawing:</b>	4002B5814PDP5310	<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>	14BD0044A	<b>Ambient Max(°C):</b>	40
<b>Type:</b>	KS	<b>Alt Ambient Max(°C):</b>	--
<b>Frame:</b>	143TC	<b>Insulation Class:</b>	H
<b>Phases:</b>	3	<b>NEMA Design:</b>	--
<b>Poles:</b>	2	<b>Nominal Efficiency:</b>	80 %
<b>Output Power:</b>	1HP 0.7KW	<b>Guaranteed Efficiency:</b>	78.5
<b>RPM:</b>	3515	<b>3/4 Load Efficiency:</b>	80.1
<b>Voltage:</b>	460	<b>KVA Code:</b>	N
<b>Hertz:</b>	60	<b>Max KVAR:</b>	0.4
<b>Amps - FL:</b>	1.4	<b>Power Factor:</b>	81.0
<b>Service Factor:</b>	1.15	<b>Bearing - DE:</b>	6206ZC3
<b>Alt Service Factor:</b>	--	<b>Bearing - ODE:</b>	6205ZC3

**Enclosure is Totally Enclosed Fan-Cooled**

**Stamped Nameplate Notes:**

IEEE-STD-841-2009  
 DE BRG 30BC02JP30 ODE BRG 25BC02JP30  
 STAMP NP249A5564P051 AS BELOW:  
 MODEL:5KS143XAA145B 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, 1.0SF ON SINE-WAVE PWR  
 SURF TEMP 200 C AT 1.15 SF 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:**

2P - T EXTN  
 C/BOX 30 CU IN-0.75 NPT  
 "C" FACE AT DE ENDSHIELD ROUND FRAME  
 VERTICAL MOUNT SHAFT DOWN WITH DRIPCOVER  
 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  
 BURNDY SERVIT POST 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: 14BD0044A**

**Marks:**

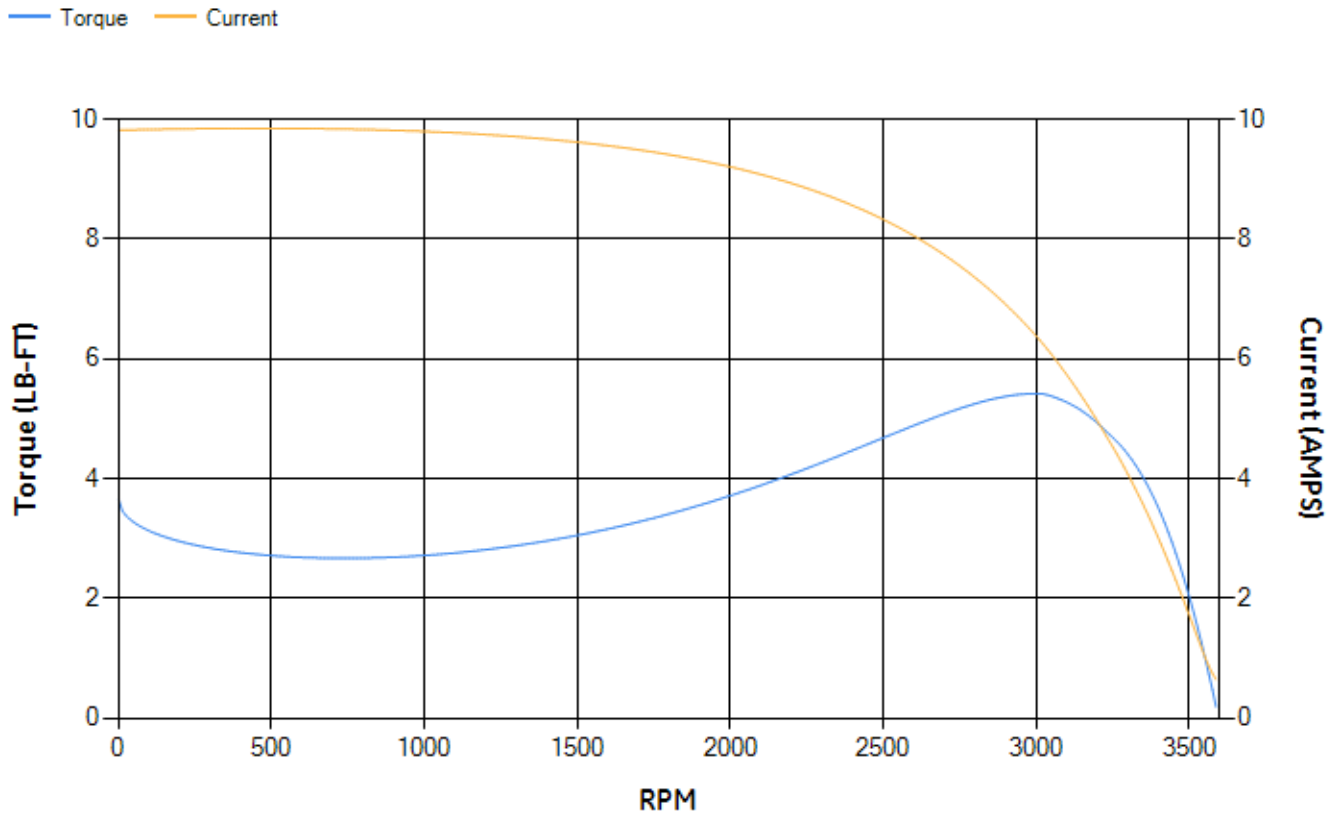
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	80.27	80.61	81.02	80.07	76.71	65.71	0.00
% PF	84.36	83.2	84.52	74.67	63.62	44.42	17.34
AMPS	1.73	1.6	1.35	1.17	0.96	0.8	0.6

TORQ(FL)#FT	1.49	TORQ(LR)%FL	245.14	TORQ(BD)%FL	354.42
AMPS(LR)	9.82	PF AT START	0.56		

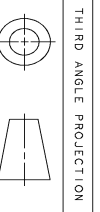
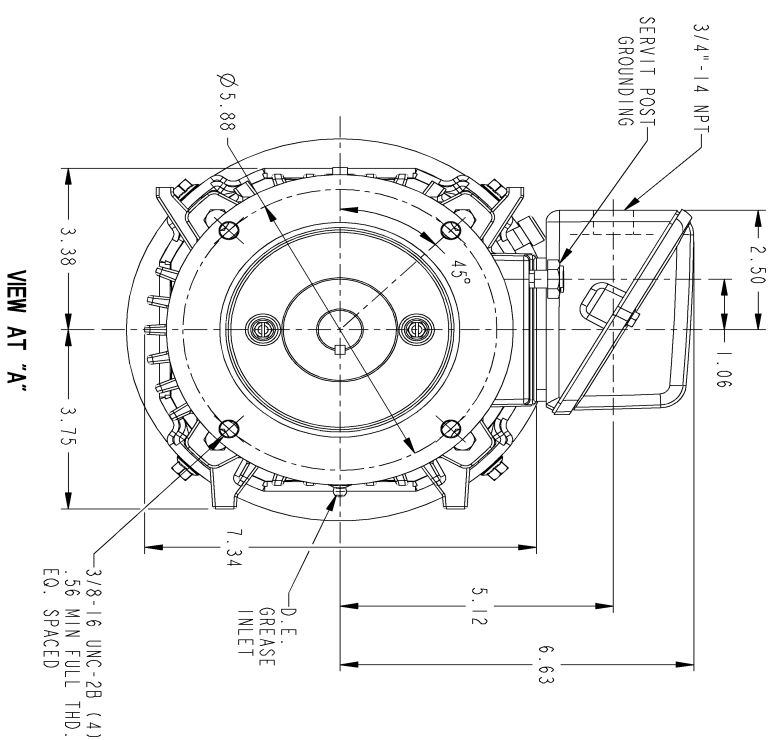
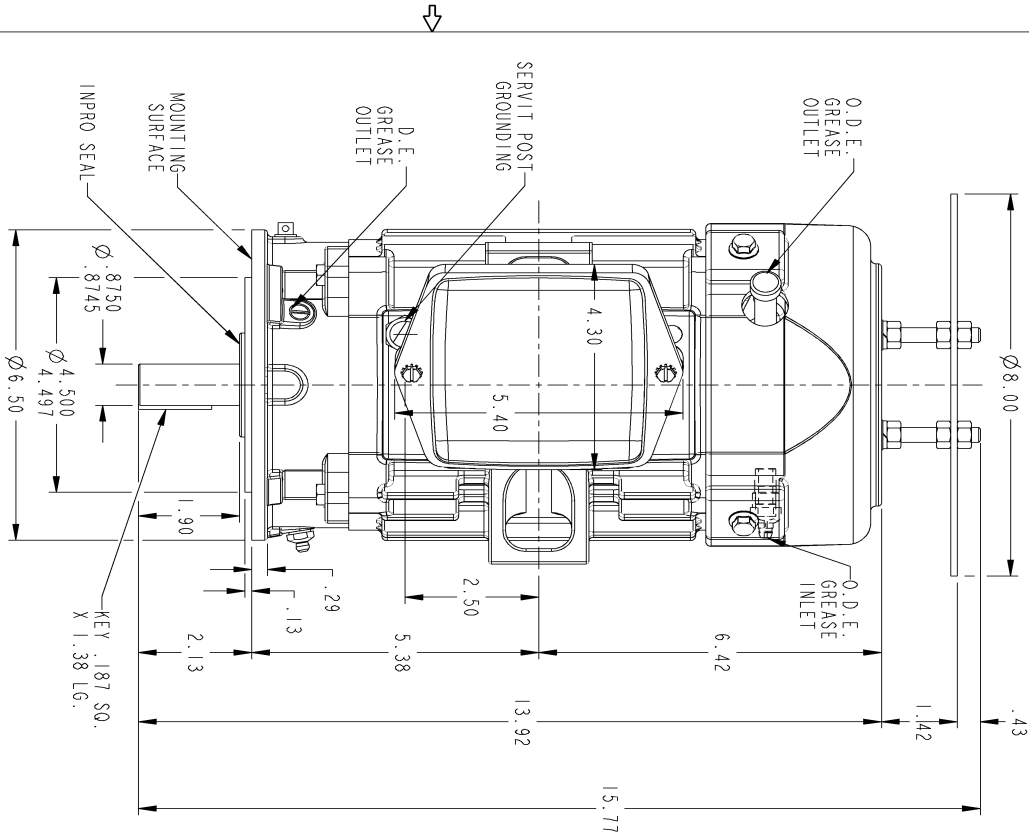
This motor is capable of two cold or one hot start with a maximum connected load inertia of 10 Lb-Ft Sq (0.42 Kg-meter Sq) at 100% voltage, where the load torque varies with the square of the speed. Acceleration time with maximum inertia and the above load type is 39 seconds. Safe stall time at 100% voltage is 87 seconds cold, 66 seconds hot. Rotor inertia is 0.03 Lb-Ft Sq (0 Kg-meter Sq).

Open Circuit A-C:	0.237	Short Circuit D-C:	0.005
Short Circuit A-C:	0.011	X/R Ratio:	1.835
Stator Slots:	24	Rotor Slots:	34

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



Marks:



NOTE 1: CONDUIT BOX MAY BE ASSEMBLED WITH ENTRANCE ON EITHER SIDE WITH REFERENCE TO CURRENT LOCATION.  
 NOTE 2: F1 ASSEMBLY AS SHOWN. F2 ASSEMBLY CONDUIT BOX ON OPPOSITE SIDE FROM SHOWN LOCATION.  
 NOTE 3: MOUNTING SURFACES WILL BE SQUARE AND CONCENTRIC WITH SHAFT WITHIN .004 T.I.R.  
 NOTE 4: SHAFT RUNOUT WILL NOT EXCEED .001 T.I.R.

REV.	DESCRIPTION	DATE	APPROVED
1	ISAAC #12-0115	HARI 02/01/12	PIYUSH

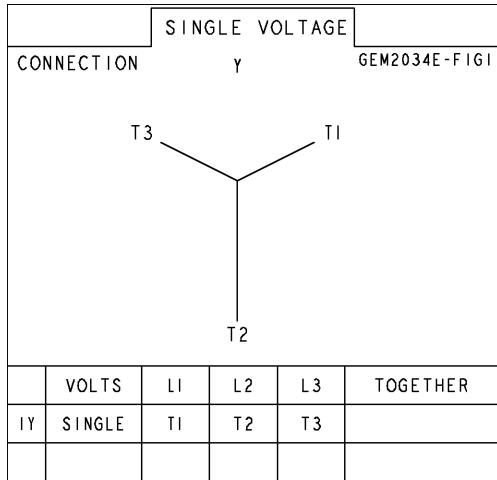
SIZE: B DRAWING NO: 4002B5814PDP5310 SH: 1 REV: 1

SIGNATURES	DATE
DESIGN: N PRASAD 05/10/05	
CHECKED: ADI MATHAYANA 05/10/05	
ENGR: N PRASAD 05/10/05	

**GE Industrial Systems**  
**GENERAL ELECTRIC COMPANY**  
 Fort Wayne, Indiana  
**INDUCTION MOTOR OUTLINE**  
 IEEE-941 SPEC. WITH CONDUIT BOX & DRIP COVER  
 FME: 1401C TERC 'C' FACE (4.50" RABBIT), FOOTLESS  
 SIZE DRAWING: 4002B5814PDP5310  
 SCALE: 0.450 REF. NO.:  
 DISTRIBUTION: PMP-18K15

Marks:

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



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	4004D5289PB1	4004D5280SG1
Bearing	235A2602AA01	235A2600AA01
Slinger/Inproseal	4002B5914AM1	4002B5914AG1

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	4001A5914AM-G01
Fan Cover	4003C5514BN-G01

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

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	