GE
Power Conversion

Product Information Packet

November 9, 2016

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

Model Number:	**5KS254SAA108D1**
Catalog Number:	**M992**
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG1
Outline Drawing:	4002B5825PAP5201

Accessory Connection Diagrams

Bearing Thermocouple:	None	**Heater:**	None
RTD:	None	**Thermistor:**	None
Thermostat:	None	**Winding Thermocouple:**	None
Bearing RTD:	None		

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imagination at work

Marks:

MODEL NUMBER:	**5KS254SAA108D1**	**Estimated Weight:**	315 Lbs
Outline Drawing:	4002B5825PAP5201	**Time Rating:**	CONT
Connection Diagram:	GEM2034E-FIG1	**Enclosure:**	TEFC
Instruction Book:	GEI-56128	**Encl Construction:**	X$D
Design Code:	25BD0090A	**Ambient Max(°C):**	40
Type:	KS	**Alt Ambient Max(°C):**	65
Frame:	254T	**Insulation Class:**	H
Phases:	3	**NEMA Design:**	B
Poles:	2	**Nominal Efficiency:**	91 %
Output Power:	15HP 11.1KW	**Guaranteed Efficiency:**	90.2
RPM:	3550	**3/4 Load Efficiency:**	91.8
Voltage:	460	**KVA Code:**	G
Hertz:	60	**Max KVAR:**	2.9
Amps - FL:	17.3	**Power Factor:**	89.0
Service Factor:	1.25	**Bearing - DE:**	6309ZC3
Alt Service Factor:	1.00	**Bearing - ODE:**	6309ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

SF AMPS 22.1
STAMP NP249A5564P051 AS BELOW:
MODEL:5KS254SAA108D1 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 280C AT 1.25SF ON SINE-WAVE PWR
OR 200 C VT OR 215 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
STANDARD FLOOR MOUNT
C/BOX 137 CU IN-1.25 NPT
F1 CONDUIT BOX MOUNTING
OIL RESISTANT SLEEVING ON LEADS

Performance Characteristics 1st Winding 1st Connection **Design: 25BD0090A**

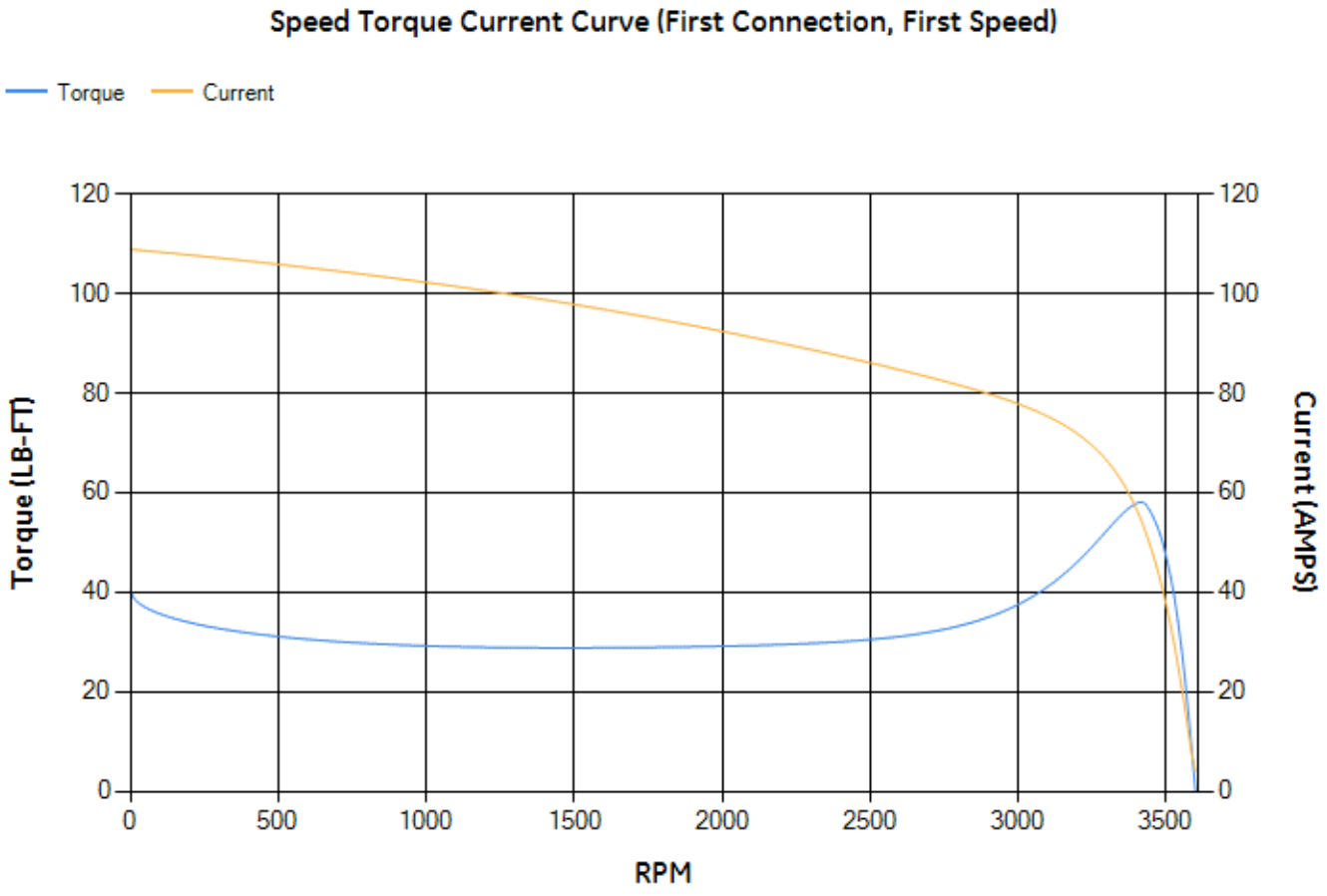
Marks:

LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	89.46	90.13	91.15	91.83	91.73	88.48	0.00
% PF	88.61	89.02	89.24	88.25	83.82	67.77	9.58
AMPS	22.14	20.12	17.26	12.99	9.13	5.85	4.01

TORQ(FL)#FT	22.19	**TORQ(LR)%FL**	182.51	**TORQ(BD)%FL**	260.79
AMPS(LR)	108.87	**PF AT START**	0.3		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 109 Lb-Ft Sq (4.59 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 50 seconds. Safe stall time at 100% voltage is 94 seconds cold, 60 seconds hot. Rotor inertia is 1.05 Lb-Ft Sq (0.04 Kg-meter Sq).

Open Circuit A-C:	0.844	**Short Circuit D-C:**	0.013
Short Circuit A-C:	0.031	**X/R Ratio:**	4.8
Stator Slots:	36	**Rotor Slots:**	26



Marks:

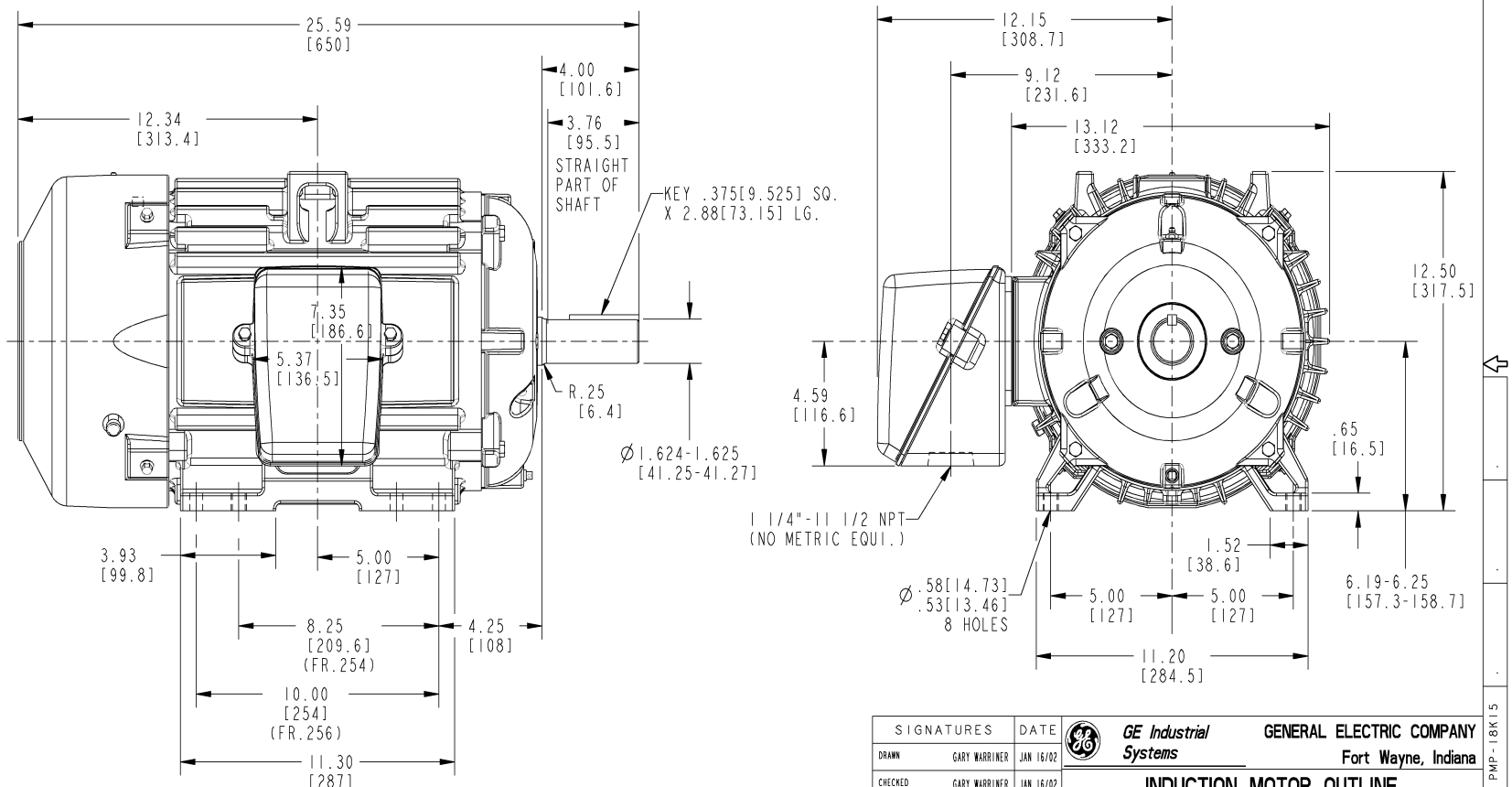
November 9, 2016

Model Number: 5KS254SAA108D1

SIZE	DRAWING NO.	SH	REV
B	4002B5825PAP5201	1	4

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 .002 T.I.R

REVISIONS				
REV.	DESCRIPTION		DATE	APPROVED
1	NOTE X$D ULTRA DELETED		05/20/03	SANJAY
2	ISAAC 09-0868	RAGHU	09/25/09	SRAVANTHI
3	ISAAC 09-1036	NANCHI	12/02/09	RAGHU
4	ISSAC 12-0025	TRIPATI	01/09/11	RAGHU



SIGNATURES		DATE
DRAWN	GARY WARRINER	JAN 16/02
CHECKED	GARY WARRINER	JAN 16/02
ENGRG		
ISSUED	GARY WARRINER	APR 05/02
APPLIED PRACTICES		

THIRD ANGLE PROJECTION

GE Industrial Systems

GENERAL ELECTRIC COMPANY
Fort Wayne, Indiana

INDUCTION MOTOR OUTLINE

STANDARD CONSTRUCTION
FMR: FR.250T TEFC

SIZE	DRAWING	REV.
B	4002B5825PAP5201	4

SCALE: 0.250 | REF. NO: 4002B5825PAP201 | SHEET 1 OF 1

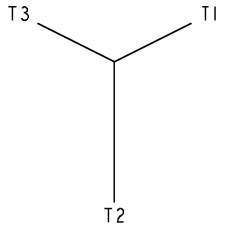
DISTRIBUTION: PMP-18K15

Connection Diagram

GEM2034E-FIG1

SINGLE VOLTAGE

CONNECTION Y GEM2034E-FIGI



	VOLTS	LI	L2	L3	TOGETHER
IY	SINGLE	TI	T2	T3	

End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	4004D5283PB1	4004D5283SE1
Bearing	235A2607AA01	235A2607AA01
Slinger/Inproseal	149C4399G02	149C4399G02

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	159C6704G02
Fan Cover	4003C5788PA1

Conduit & Accessories Box Assembly	
Part Description	Part#
Conduit Box	4002B5728PA-G04

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	