GE
Power Conversion

Product Information Packet

November 9, 2016

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

Model Number:	**5KS182SAA308D1**
Catalog Number:	**M9943**
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG1
Outline Drawing:	4002B5818PAP5201

Accessory Connection Diagrams

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

Table of Contents

imagination at work

Marks:

MODEL NUMBER:	**5KS182SAA308D1**	**Estimated Weight:**	76 Lbs
Outline Drawing:	4002B5818PAP5201	**Time Rating:**	CONT
Connection Diagram:	GEM2034E-FIG1	**Enclosure:**	TEFC
Instruction Book:	GEI-56128	**Encl Construction:**	X$D
Design Code:	18BD3001A	**Ambient Max(°C):**	40
Type:	KS	**Alt Ambient Max(°C):**	65
Frame:	182T	**Insulation Class:**	H
Phases:	3	**NEMA Design:**	B
Poles:	6	**Nominal Efficiency:**	87.5 %
Output Power:	1.5HP 1.1KW	**Guaranteed Efficiency:**	86.5
RPM:	1170	**3/4 Load Efficiency:**	88.2
Voltage:	460	**KVA Code:**	M
Hertz:	60	**Max KVAR:**	1.0
Amps - FL:	2.4	**Power Factor:**	68.0
Service Factor:	1.25	**Bearing - DE:**	6206ZC3
Alt Service Factor:	1.00	**Bearing - ODE:**	6206ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

SF AMPS 2.7
STAMP NP249A5564P051 AS BELOW:
MODEL:5KS182SAA308D1 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 1.25SF 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 30 CU IN-0.75 NPT
F1 CONDUIT BOX MOUNTING
OIL RESISTANT SLEEVING ON LEADS

Performance Characteristics 1st Winding 1st Connection **Design: 18BD3001A**

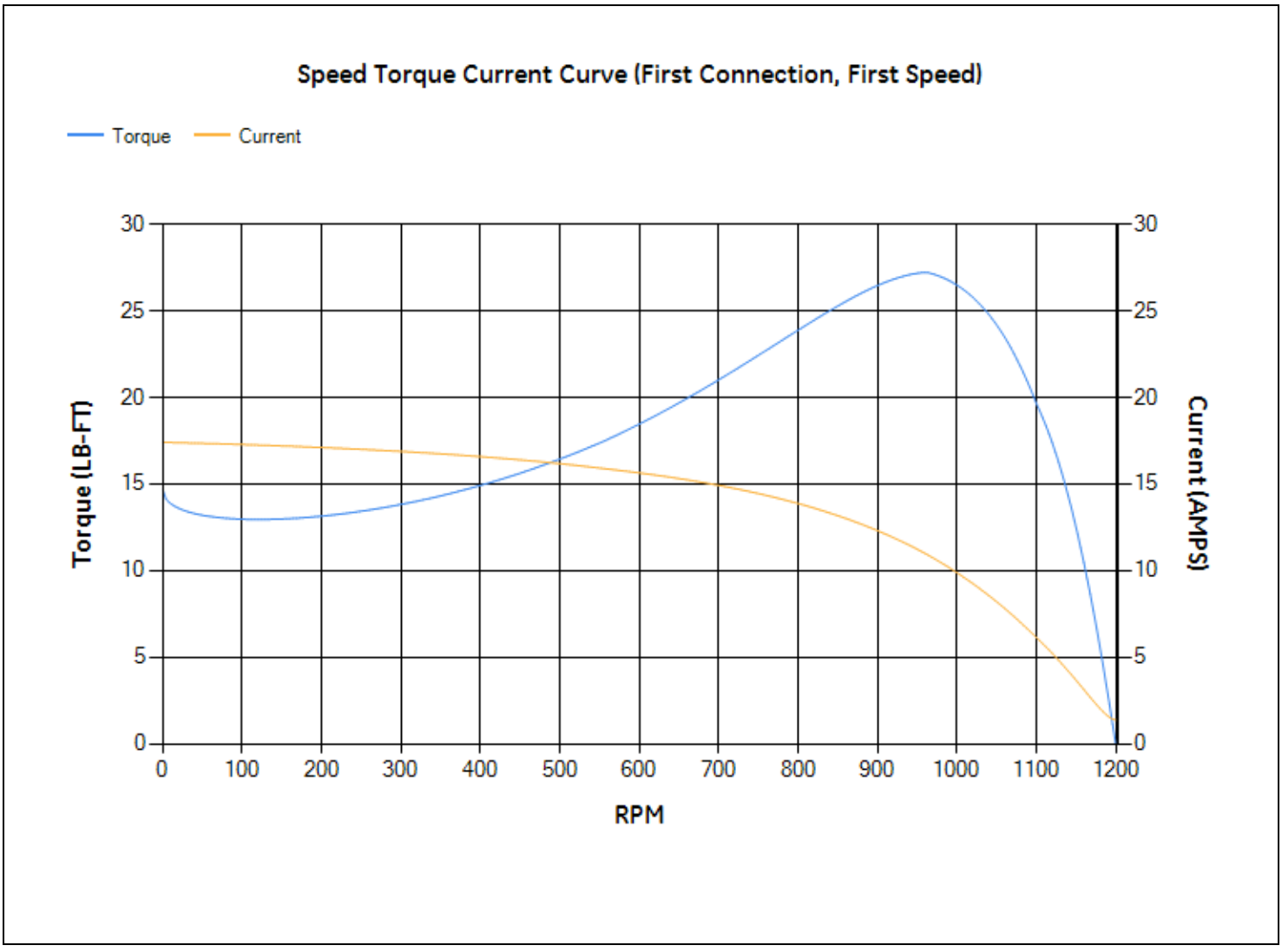
Marks:

LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	87.54	87.89	88.45	88.19	86.52	79.53	0.00
% PF	73.63	71.73	69.93	59.69	46.9	28.68	5.86
AMPS	2.72	2.56	2.27	2	1.73	1.54	1.37

TORQ(FL)#FT	6.72	**TORQ(LR)%FL**	218.46	**TORQ(BD)%FL**	396.13
AMPS(LR)	17.41	**PF AT START**	0.46		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 260 Lb-Ft Sq (10.95 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 63 seconds. Safe stall time at 100% voltage is 139 seconds cold, 117 seconds hot. Rotor inertia is 0.35 Lb-Ft Sq (0.01 Kg-meter Sq).

Open Circuit A-C:	0.162	**Short Circuit D-C:**	0.008
Short Circuit A-C:	0.011	**X/R Ratio:**	3.204
Stator Slots:	36	**Rotor Slots:**	48



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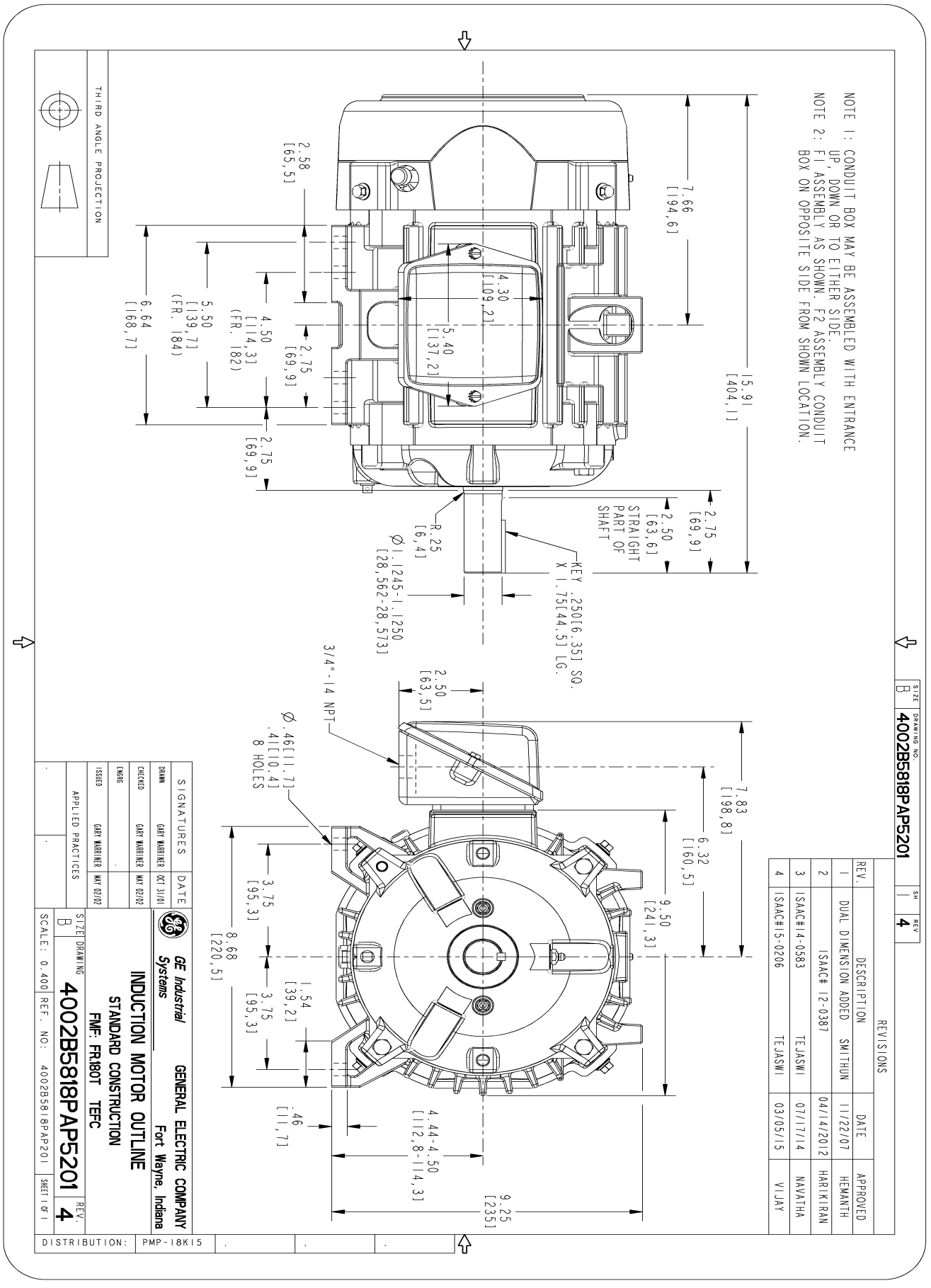


REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
1	DUAL DIMENSION ADDED SMITHUN	11/22/07	HEMANTH
2	ISAAC# 12-0387	04/14/2012	HARIKIRAN
3	ISAAC#14-0583 TEJASWI	07/17/14	NAVATHA
4	ISAAC#15-0206 TEJASWI	03/05/15	VIJAY

SIZE B | DRAWING NO. 4002B5818PAP5201 | SH 1 | REV 4

SIGNATURES		DATE
DRAWN	GARY WARRINER	OCT 31/01
CHECKED	GARY WARRINER	MAY 02/02
ENG'G	.	
ISSUED	GARY WARRINER	MAY 02/02
APPLIED PRACTICES		
.	.	

GE Industrial Systems — GENERAL ELECTRIC COMPANY — Fort Wayne, Indiana

INDUCTION MOTOR OUTLINE

STANDARD CONSTRUCTION

FMF, FR.180T TEFC

SIZE B | DRAWING 4002B5818PAP5201 | REV. 4

SCALE: 0.400 | REF. NO: 4002B5818PAP201 | SHEET 1 OF 1

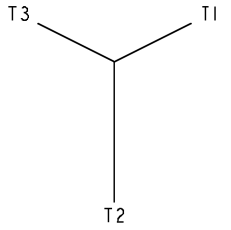
DISTRIBUTION: PMP-18K15 . . .

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	4004D5281PB1	4004D5281SG1
Bearing	235A2602AA01	235A2602AA01
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	4002B5718PA-G01

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	