

Product Information Packet

November 8, 2016

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

Model Number:	5KS184SAA205D1
Catalog Number:	M242
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG3
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

Specification	01
Performance Characteristics	02
Outline Drawing	03
Connection Drawing(s)	04
Spare parts	05



Marks:

MODEL NUMBER:	5KS184SAA205D1	Estimated Weight:	101 Lbs
Outline Drawing:	4002B5818PAP5201	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG3	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	X\$D
Design Code:	18BD1001A	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	65
Frame:	184T	Insulation Class:	H
Phases:	3	NEMA Design:	B
Poles:	4	Nominal Efficiency:	89.5 %
Output Power:	5HP 3.7KW	Guaranteed Efficiency:	88.5
RPM:	1755	3/4 Load Efficiency:	90.4
Voltage:	230/460	KVA Code:	J
Hertz:	60	Max KVAR:	2.0
Amps - FL:	13.2/6.6	Power Factor:	79.5
Service Factor:	1.25	Bearing - DE:	6206ZC3
Alt Service Factor:	1.00	Bearing - ODE:	6206ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

STAMP NP249A5564P051 AS BELOW:
 MODEL:5KS184SAA205D1 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 215C AT 1.15SF ON SINE-WAVE PWR
 OR 200C VT OR 215C CT OR 200C 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:

4P - 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: 18BD1001A

Marks:

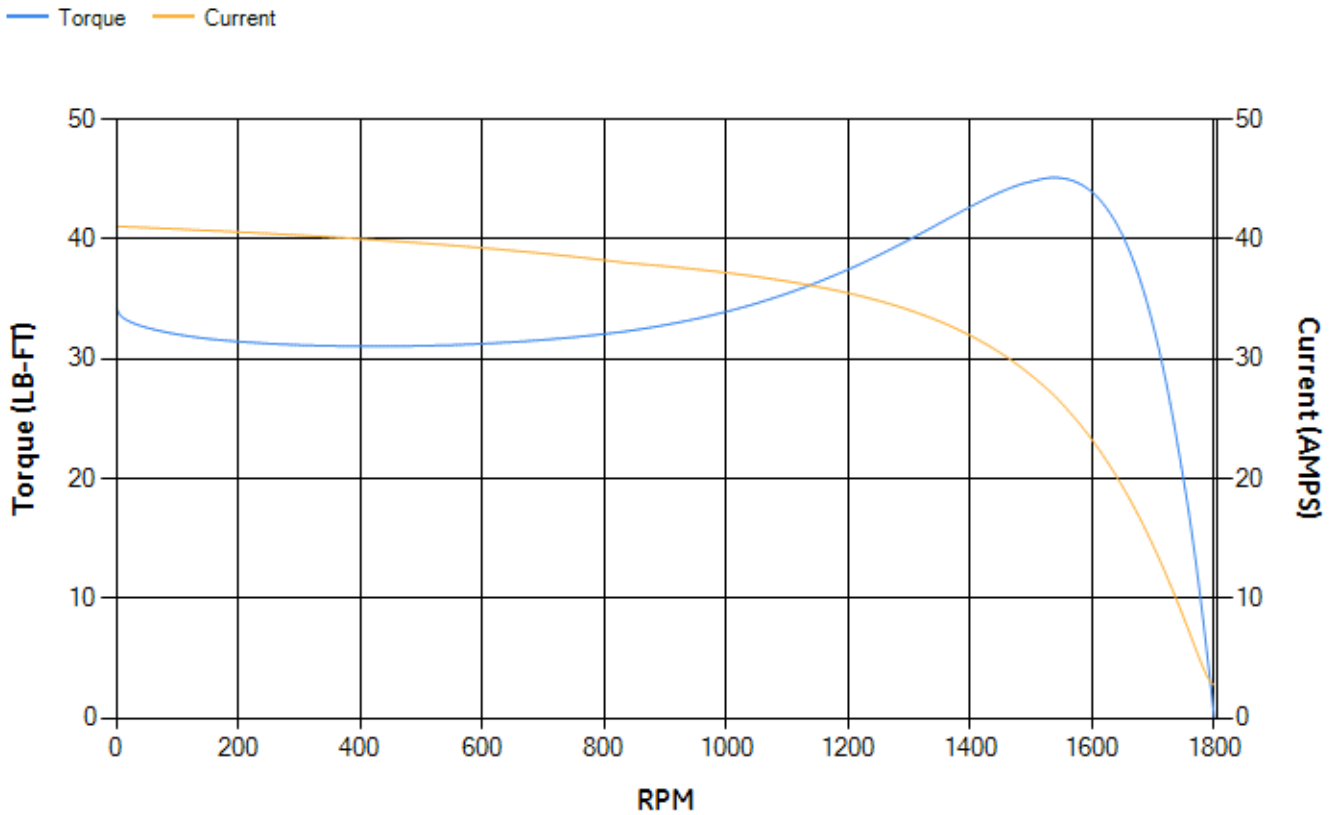
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	88.12	88.78	89.81	90.44	90.1	85.98	0.00
% PF	81.6	80.98	80.8	74.23	63.37	41.66	5.79
AMPS	8.14	7.49	6.45	5.23	4.1	3.27	2.74

TORQ(FL)#FT	14.97	TORQ(LR)%FL	228.66	TORQ(BD)%FL	298.67
AMPS(LR)	41.06	PF AT START	0.51		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 183 Lb-Ft Sq (7.7 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 36 seconds. Safe stall time at 100% voltage is 79 seconds cold, 51 seconds hot. Rotor inertia is 0.35 Lb-Ft Sq (0.01 Kg-meter Sq).

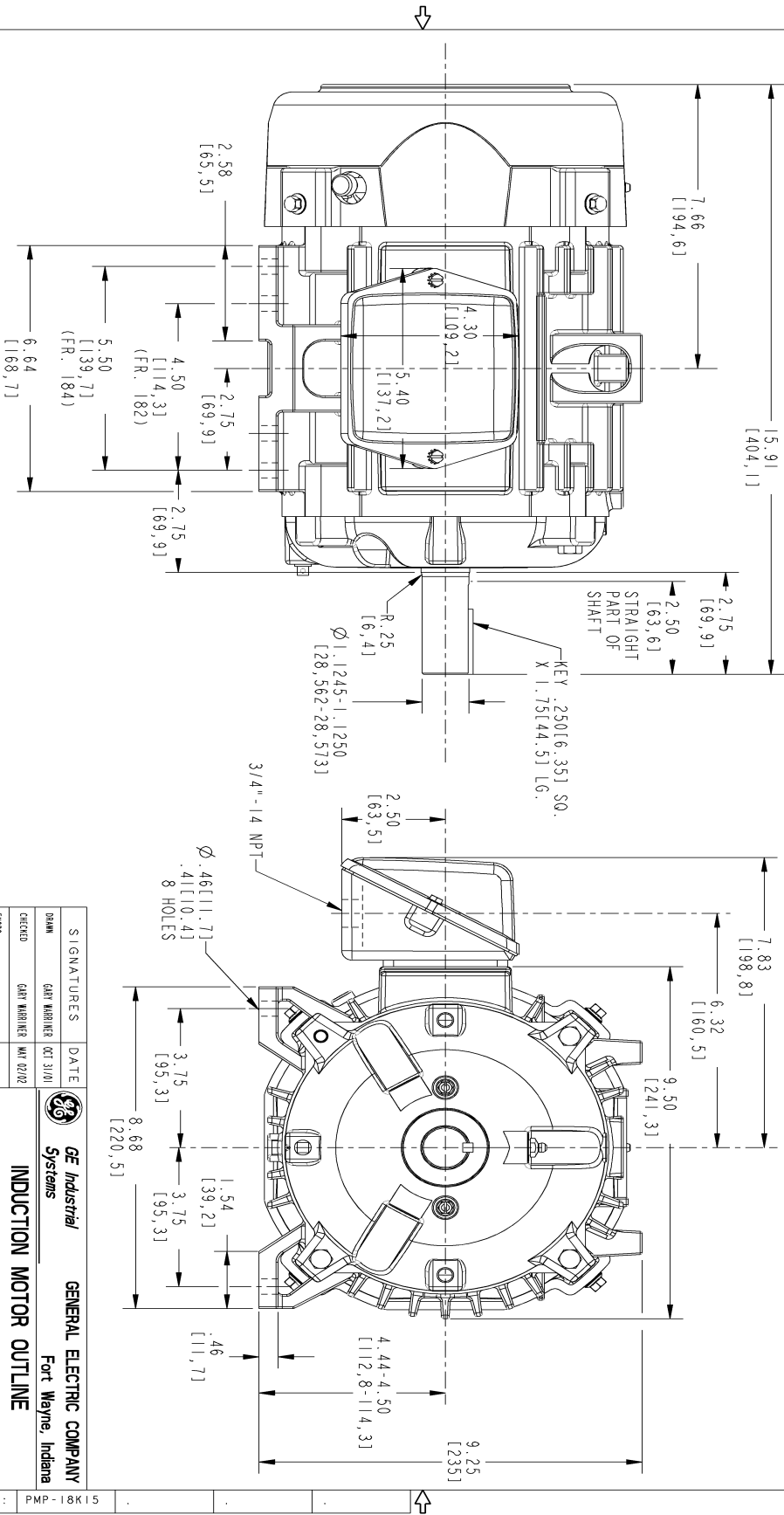
Open Circuit A-C:	0.237	Short Circuit D-C:	0.008
Short Circuit A-C:	0.012	X/R Ratio:	3.151
Stator Slots:	36	Rotor Slots:	28

Speed Torque Current Curve (First Connection, First Speed)



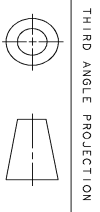
Marks:

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.



REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
1	DUAL DIMENSION ADDED SWITCH	11/22/07	HEMANTH
2	ISAC# 12-0387	04/14/2012	HARIKIRAN
3	ISAC#14-0583	07/17/14	MAAYATHA
4	ISAC#15-0206	03/05/15	VJ JAY

SIZE DRAWING NO. 4002B5818PAP5201 SH 4 REV



SIGNATURES		DATE	
DESIGN	GARY WARRNER	02/31/01	
CHECKED	GARY WARRNER	04/02/02	
ENGR			
ISSUED	GARY WARRNER	04/02/02	
APPLIED PRACTICES			
SIZE DRAWING		REV.	
B		4	
SCALE: 0.400 REF. NO.: 4002B5818PAP201 SHEET 0F 1			

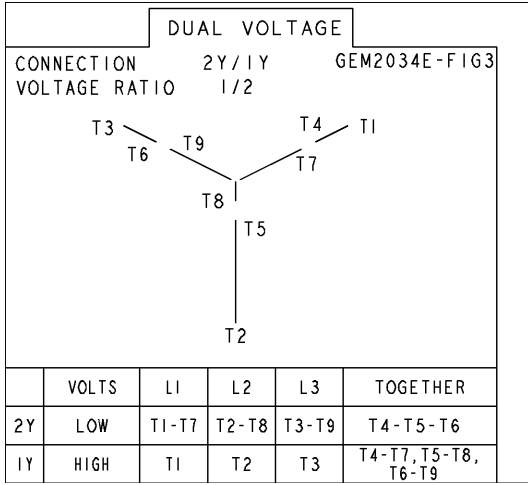
GE Industrial Systems
GENERAL ELECTRIC COMPANY
 Fort Wayne, Indiana

INDUCTION MOTOR OUTLINE
 STANDARD CONSTRUCTION
 FME: FR180T TEFC

DISTRIBUTION: PMP-18K15

Marks:

Connection Diagram
GEM2034E-FIG3



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	