

# Product Information Packet

November 9, 2016

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

<b>Model Number:</b>	<b>5KS286SAA200D2</b>
<b>Catalog Number:</b>	<b>M9896</b>
<b>Instruction Manual:</b>	GEI-56128
<b>Connection Diagram:</b>	GEM2034E-FIG7
<b>Outline Drawing:</b>	4002B5828PBP5316

## 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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imagination at work

**Marks:**

<b>MODEL NUMBER:</b>	<b>5KS286SAA200D2</b>	<b>Estimated Weight:</b>	510 Lbs
<b>Outline Drawing:</b>	4002B5828PBP5316	<b>Time Rating:</b>	CONT
<b>Connection Diagram:</b>	GEM2034E-FIG7	<b>Enclosure:</b>	TEFC
<b>Instruction Book:</b>	GEI-56128	<b>Encl Construction:</b>	X\$D
<b>Design Code:</b>	28BD1157A	<b>Ambient Max(°C):</b>	40
<b>Type:</b>	KS	<b>Alt Ambient Max(°C):</b>	65
<b>Frame:</b>	286TC	<b>Insulation Class:</b>	H
<b>Phases:</b>	3	<b>NEMA Design:</b>	B
<b>Poles:</b>	4	<b>Nominal Efficiency:</b>	93.6 %
<b>Output Power:</b>	30HP 22.2KW	<b>Guaranteed Efficiency:</b>	93.0
<b>RPM:</b>	1775	<b>3/4 Load Efficiency:</b>	94.1
<b>Voltage:</b>	460	<b>KVA Code:</b>	G
<b>Hertz:</b>	60	<b>Max KVAR:</b>	8.2
<b>Amps - FL:</b>	34.9	<b>Power Factor:</b>	86.0
<b>Service Factor:</b>	1.25	<b>Bearing - DE:</b>	6310ZC3
<b>Alt Service Factor:</b>	1.00	<b>Bearing - ODE:</b>	6310ZC3

**Enclosure is Totally Enclosed Fan-Cooled**

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**Stamped Nameplate Notes:**

SF AMPS 43.6  
 STAMP NP249A5564P051 AS BELOW:  
 MODEL:5KS286SAA200D2 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 215C AT 1.25SF ON SINE-WAVE PWR  
 OR 200C VT OR 200C CT OR 200C CHP PWM CONTROL  
 ALTERNATE RATING FOR PWM CONTROL 1.0SF 40C AMB  
 VT 0 - 60 HZ, CT 6-60 HZ, CHP 60-90 HZ.

**Additional Information:**

4P - T EXTN  
 STANDARD FLOOR MOUNT  
 C/BOX 137 CU IN-1.50 NPT  
 F1 CONDUIT BOX MOUNTING  
 "C" FACE AT DE ENDSHIELD  
 INPRO SEAL DE ONLY  
 OIL RESISTANT SLEEVING ON LEADS

**Performance Characteristics**

1st Winding 1st Connection

**Design: 28BD1157A****Marks:**

LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	92.5	92.93	93.68	94.1	94.05	91.75	0.00
% PF	86.93	86.75	86.04	82.98	75.01	53.73	4.5
AMPS	43.65	40.05	34.82	26.97	19.9	14.24	11.48

TORQ(FL)#FT 88.62  
AMPS(LR) 216.09

TORQ(LR)%FL 184.78  
PF AT START 0.38

TORQ(BD)%FL 281.75

This motor is capable of two cold or one hot start with a maximum connected load inertia of 969 Lb-Ft Sq (40.79 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 51 seconds. Safe stall time at 100% voltage is 90 seconds cold, 61 seconds hot. Rotor inertia is 5.44 Lb-Ft Sq (0.23 Kg-meter Sq).

Open Circuit A-C: 0.635

Short Circuit D-C: 0.016

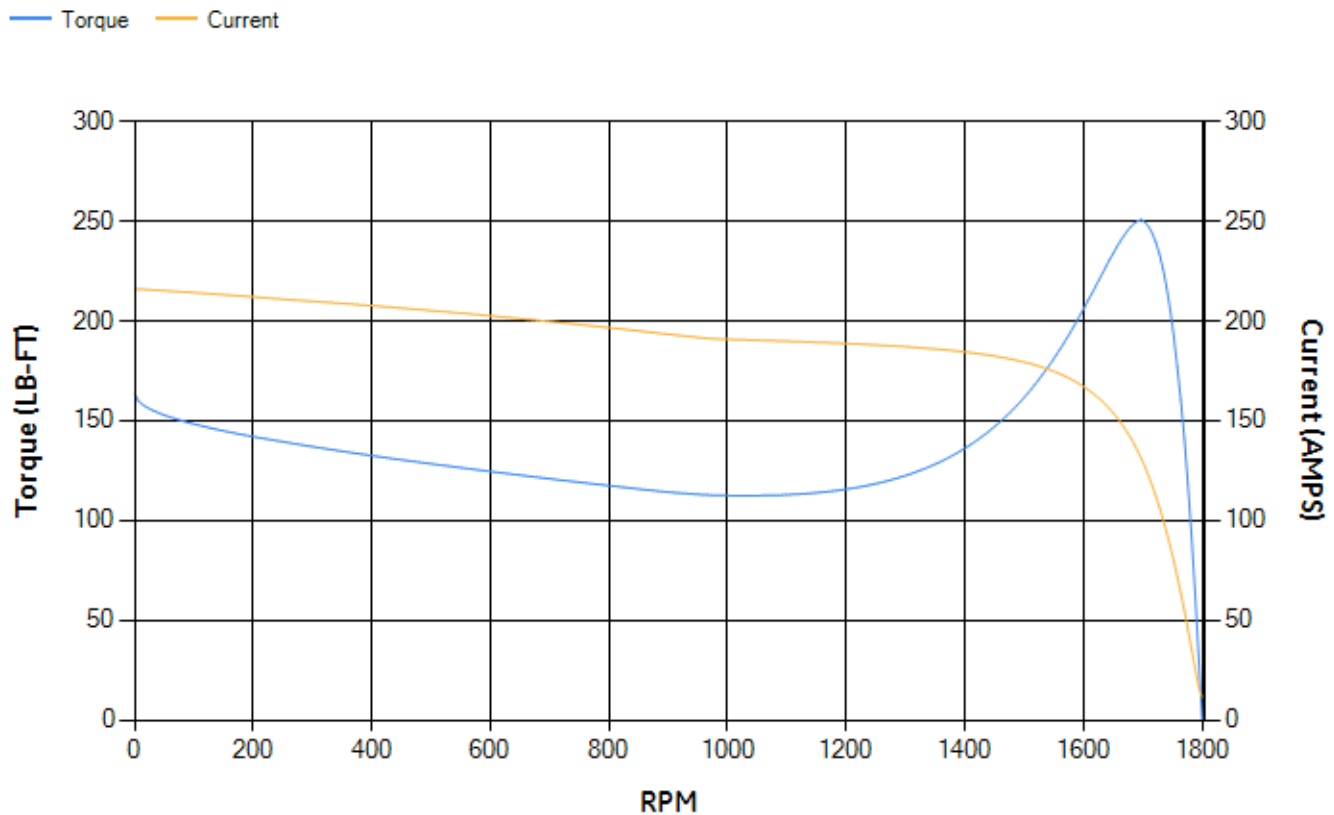
Short Circuit A-C: 0.027

X/R Ratio: 5.921

Stator Slots: 48

Rotor Slots: 40

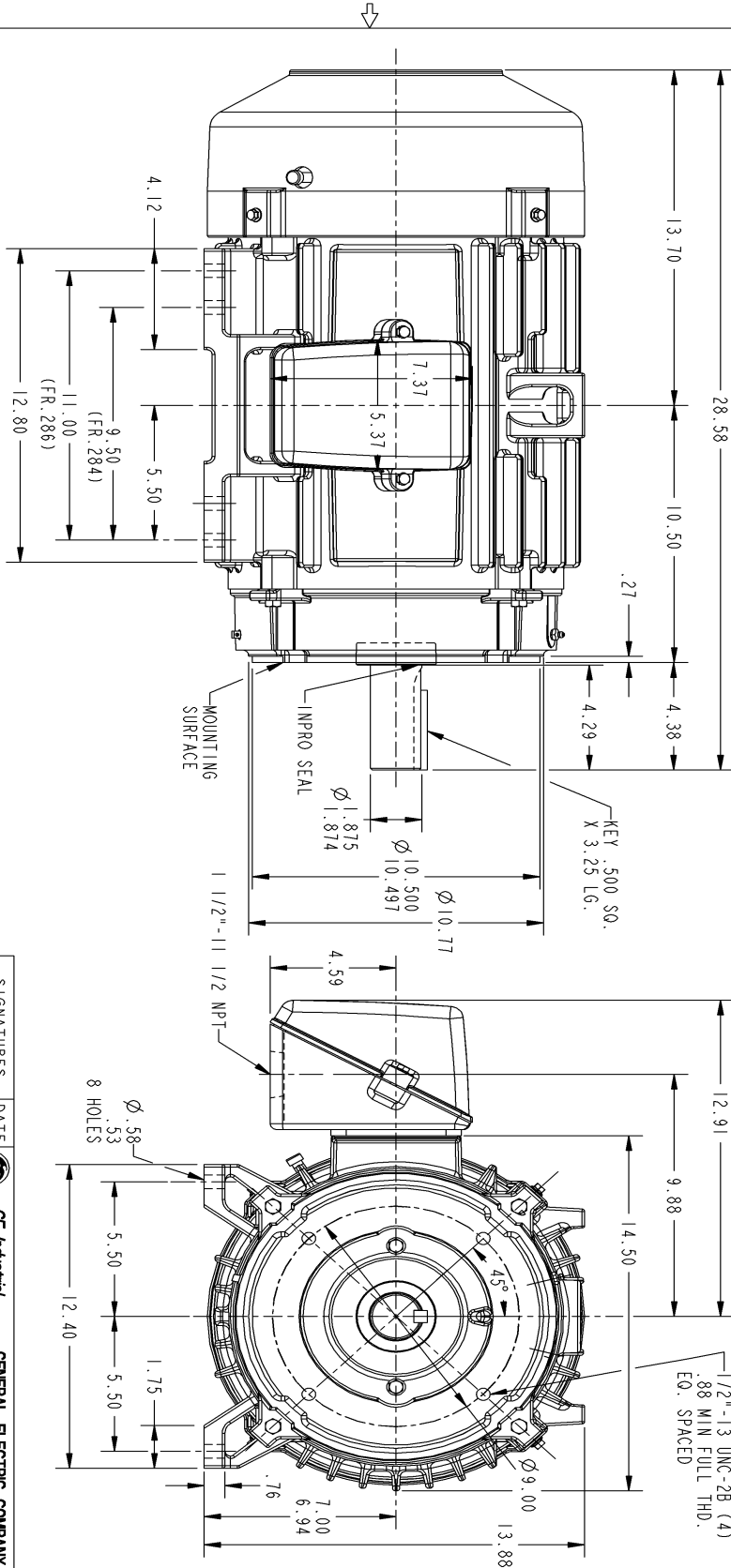
**Speed Torque Current Curve (First Connection, First Speed)**



NAME: 501053133    OBJECT: 4002B5828PBP5316    DATE: 11-May-06 12:22:18

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: MOUNTING SURFACES WILL BE SQUARE AND CONCENTRIC WITH SHAFT WITHIN .004 T.I.R.  
NOTE 4: SHAFT RUNOUT WILL NOT EXCEED .002 T.I.R.



SIZE: 4002B5828PBP5316

REV.	DESCRIPTION	DATE	APPROVED
0			

SIGNATURES	DATE
DESIGNED BY: [Signature]	11/05/06
CHECKED BY: [Signature]	11/05/06
ENGINEER: [Signature]	11/05/06
ISSUED BY: [Signature]	11/05/06

GE Industrial Systems  
GENERAL ELECTRIC COMPANY  
Fort Wayne, Indiana

INDUCTION MOTOR OUTLINE  
"C" FACE AT DE WITH INPROSEAL

FME: KS284TC TEFC "C" FACE 1050° RABBIT

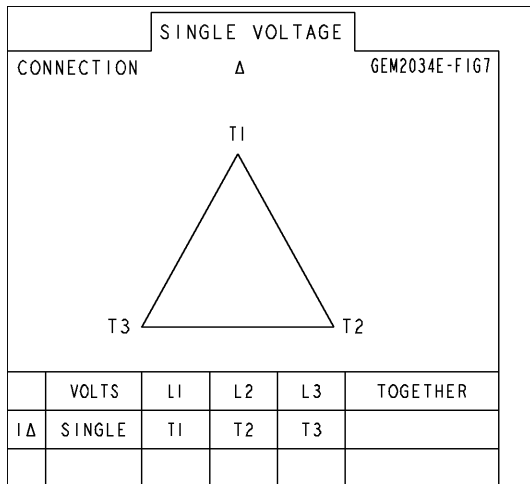
4002B5828PBP5316

SCALE: 0.250 REF. NO: 4002B5828PBP5201 SHEET 1 OF 1

DISTRIBUTION: PMP-18K15

Marks:

**Connection Diagram**  
**GEM2034E-FIG7**



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	128D6206PM1	4004D5284SE1
Bearing	235A2608AA01	235A2608AA01
Slinger/Inproseal	235A4575GC7	149C4399G03

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	

