

Product Information Packet

November 8, 2016

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

Model Number:	5KS256SAA204D2
Catalog Number:	M9751
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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Marks:

MODEL NUMBER:	5KS256SAA204D2	Estimated Weight:	350 Lbs
Outline Drawing:	4002B5825PAP5201	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG1	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	X\$D
Design Code:	25BD1163B	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	60
Frame:	256T	Insulation Class:	H
Phases:	3	NEMA Design:	B
Poles:	4	Nominal Efficiency:	93 %
Output Power:	20HP 14.8KW	Guaranteed Efficiency:	92.4
RPM:	1775	3/4 Load Efficiency:	93.7
Voltage:	575	KVA Code:	G
Hertz:	60	Max KVAR:	6.1
Amps - FL:	18.9	Power Factor:	85.0
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 23.6
 STAMP NP249A5564P051 AS BELOW:
 MODEL:5KS256SAA204D2 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 1.25SF 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 6-60 HZ , CHP 60-90 HZ.

Additional Information:

4P - 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: 25BD1163B

Marks:

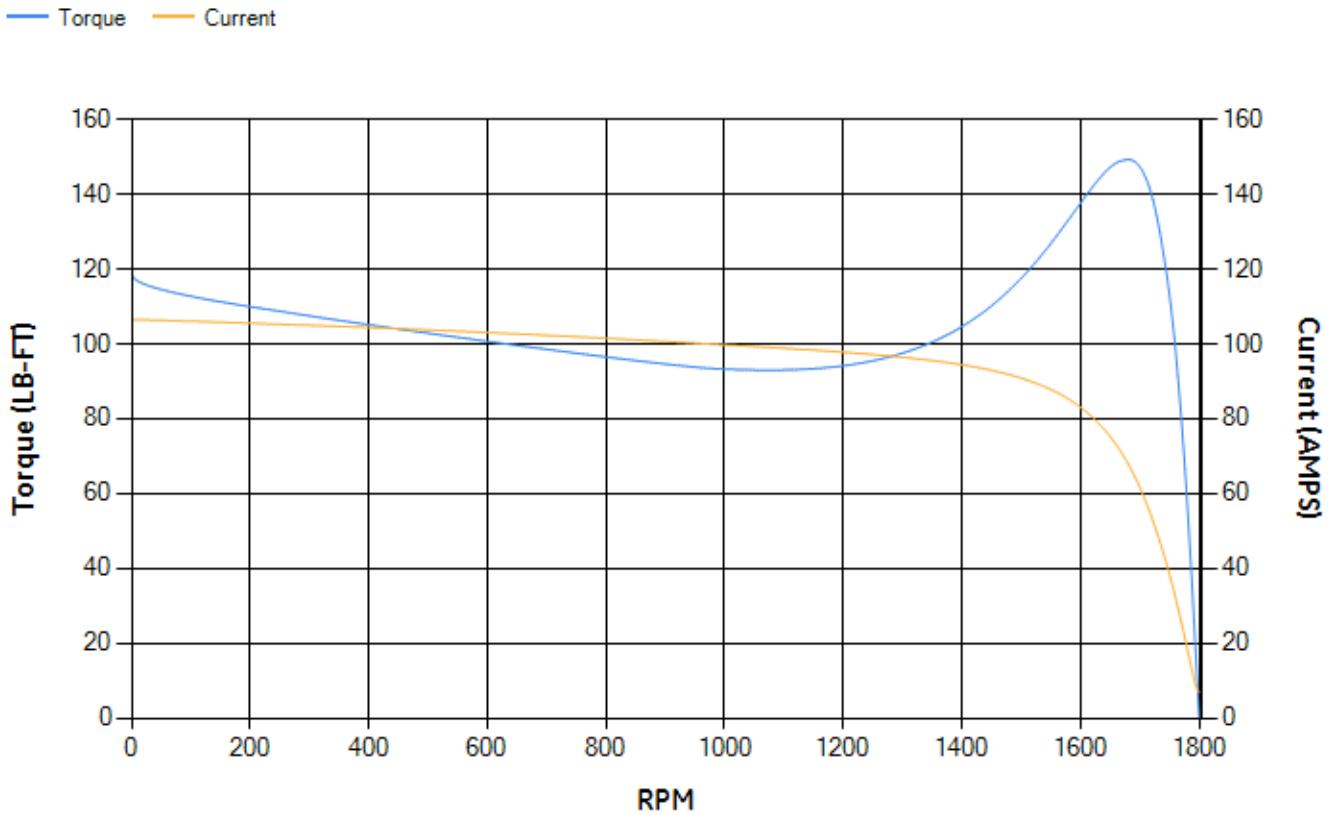
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	92.04	92.49	93.26	93.69	93.61	91.09	0.00
% PF	86.17	85.86	84.9	81.26	72.38	50.45	4.43
AMPS	23.6	21.69	18.91	14.75	11.05	8.15	6.77

TORQ(FL)#FT	59.23	TORQ(LR)%FL	200.14	TORQ(BD)%FL	250.96
AMPS(LR)	106.49	PF AT START	0.45		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 648 Lb-Ft Sq (27.28 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 44 seconds. Safe stall time at 100% voltage is 100 seconds cold, 63 seconds hot. Rotor inertia is 3.04 Lb-Ft Sq (0.13 Kg-meter Sq).

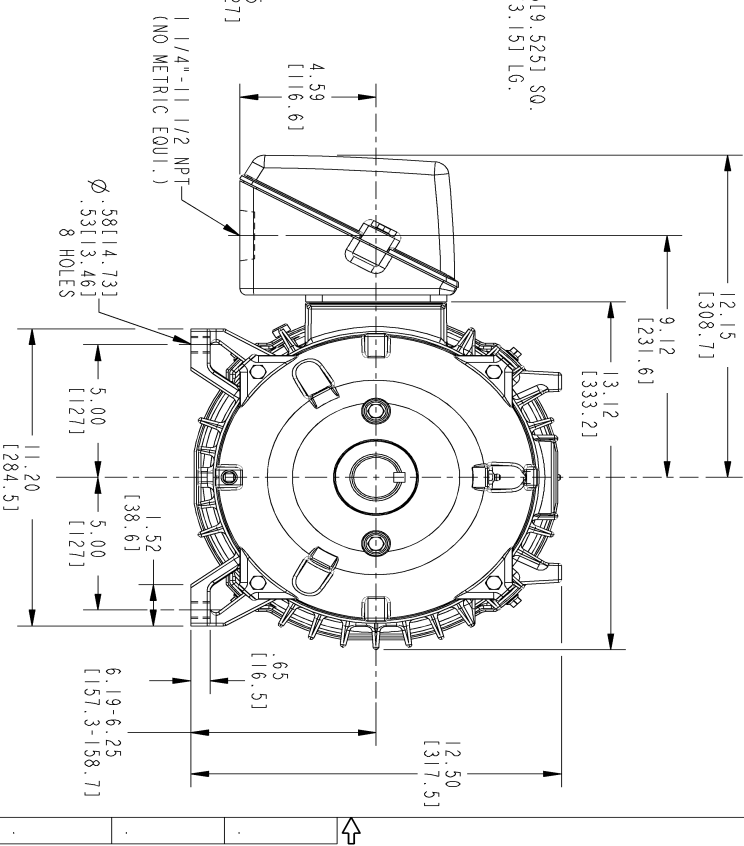
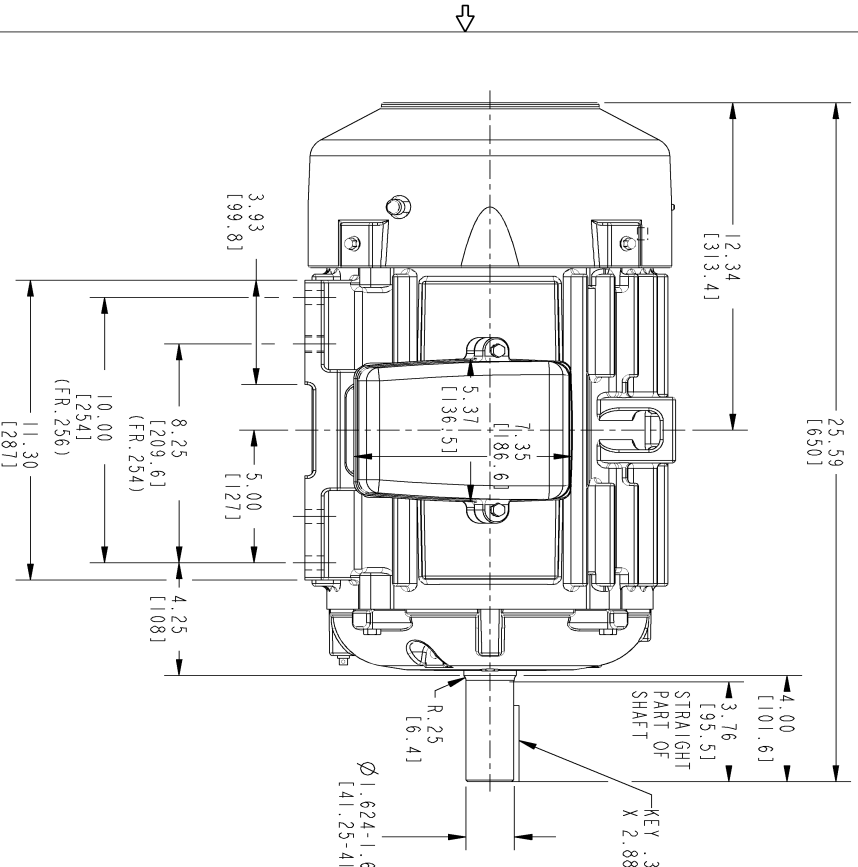
Open Circuit A-C:	0.484	Short Circuit D-C:	0.014
Short Circuit A-C:	0.024	X/R Ratio:	5.126
Stator Slots:	48	Rotor Slots:	40

Speed Torque Current Curve (First Connection, First Speed)



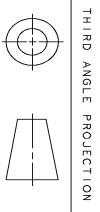
Marks:

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.
 NOTE 3: SHAFT RUNOUT WILL NOT EXCEED .002 T.I.R.



REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
1	NOTE X50 ULTRA DELETED	05/20/03	SAJAJAY
2	ISAAC 09-0868	09/29/09	SAVANTHI
3	ISAAC 09-1036	12/02/09	RAJHU
4	ISSAC 12-0025	01/09/11	RAJHU

SIZE B DRAWING NO. 4002B5825PAP5201 SH 4 REV



SIGNATURES	DATE	APPROVED
DRAWN: GARY WARRNER	JAN 16/02	<p>GENERAL ELECTRIC COMPANY Fort Wayne, Indiana</p> <p>INDUCTION MOTOR OUTLINE STANDARD CONSTRUCTION FMR: FR250T TEEC</p>
CHECKED: GARY WARRNER	JAN 16/02	
ENGR: GARY WARRNER	09/01/02	
ISSUED: GARY WARRNER	09/01/02	

APPLIED PRACTICES: B

SCALE: 0.250 REF. NO: 4002B5825PAP201 SHEET 0F 1

DISTRIBUTION: PMP-18K15

Marks:

Connection Diagram
GEM2034E-FIG1



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	159C6700G02
Fan Cover	4003C5788PA1

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

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	