

Product Information Packet

May 26, 2017

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

Model Number:	5KAF365SAA223B
Catalog Number:	M9314
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG9
Outline Drawing:	239C5200AA

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

Marks:

MODEL NUMBER:	5KAF365SAA223B		
Outline Drawing:	239C5200AA	Service Factor:	1.00
Connection Diagram:	GEM2034E-FIG9	Alt Service Factor:	1.00
Instruction Book:	GEI-56128	ASD Type:	PWM
Design Code:	36BD1126A	Time Rating:	CONT
Type:	KAF	Enclosure:	TEFC
Frame:	365T	Encl Construction:	A\$D
Phases:	3	Ambient Max (°C):	40
Poles:	4	Alt Ambient Max(°C):	65
Output Power:	75HP 55.5KW	Insulation Class:	H
Output Power (2):	75HP 55.5KW	NEMA Design:	-
Output Power (3):	0HP 0KW	Nominal Efficiency:	95.4 %
RPM:	2680	Guaranteed Efficiency:	94.5 %
RPM (2):	1785	3/4 Load Efficiency:	95.8 %
RPM (3):	0	KVA Code:	J
Voltage:	230/460	Max KVAR:	25.6
Voltage (2):	230/460	Power Factor:	84.5
Voltage (3):	4.5/9	Service Factor SINE:	1
Hertz:	90	Service Factor ASD:	1
Hertz – 2:	60	Min Supply Wires:	75 C
Hertz – 3:	0.5	IP:	55
Amps – FL:	167.8/83.9	Vibration Limit:	0.04 mm/s
Amps – FL- 2:	174.2/87.1	Bearing Lubrication:	NULL
Amps - FL- 3:	174.2/87.1	Bearing - DE:	6314ZC3
Speed Range RPM:	1-1785	Bearing - ODE:	6314ZC3
Const HP RPM:	1785-2680	Estimated Weight:	1020 Lbs

Enclosure is Totally Enclosed Fan-Cooled**Stamped Nameplate Notes:**

ALTERNATE RATING INVERTER DUTY 1.0 SF 40C AMBIENT
 SUITABLE FOR CONSTANT TORQUE;PWM OPERATION;0-60HZ
 THERMOSTAT LEADS PC-PC TRIP

Additional Information:

4P - T EXTN
 346 CU IN - 3.00" NPT
 E/S GROUND BOLT MTD ON DE C/BOX SIDE NEAR FOOT
 OIL RESISTANT SLEEVING ON LEADS
 TACH PROVISION MOTOR
 N.C. TRIP TSTAT LDS TO MAIN CONDUIT BOX
 PAINTED ODE ACCESSORY RABBET
 SHAFT GROUND RING #235A4970AG6 MOUNTED ON
 DE BEARING CAP

Performance Characteristics

1st Winding 1st Connection

Design: 36BD1126A

Marks:

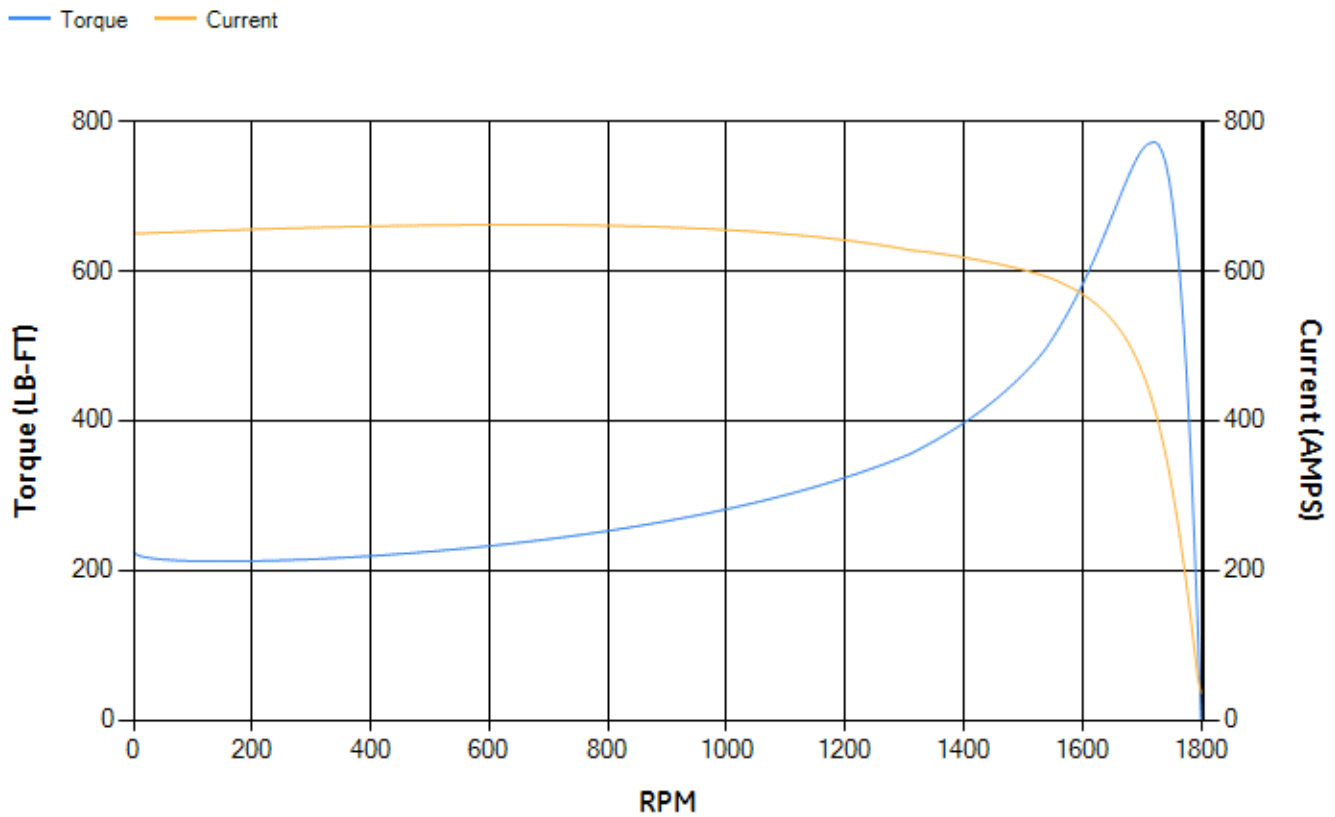
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	95.31	95.48	95.89	95.84	95.46	93.16	0.00
% PF	86.52	85.77	84.13	79.17	68.59	45.48	2.91
AMPS	106.41	98.57	86.84	69.39	53.6	41.42	35.71

TORQ(FL)#FT	220.54	TORQ(LR)%FL	102.05	TORQ(BD)%FL	349.17
AMPS(LR)	649.9	PF AT START	0.2		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 2146 Lb-Ft Sq (90.35 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 138 seconds cold, 76 seconds hot. Rotor inertia is 15.28 Lb-Ft Sq (0.64 Kg-meter Sq).

Open Circuit A-C:	0.744	Short Circuit D-C:	0.023
Short Circuit A-C:	0.035	X/R Ratio:	8.528
Stator Slots:	60	Rotor Slots:	50

Speed Torque Current Curve (First Connection, First Speed)



Marks:

Connection Diagram
GEM2034E-FIG9

