

Product Information Packet

May 26, 2017

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

Model Number:	5KAF449SAA325
Catalog Number:	M9343
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG8
Outline Drawing:	239C7800AK

Accessory Connection Diagrams

Bearing Thermocouple:	None	Heater:	None
RTD:	None	Thermistor:	None
Thermostat:	3027JE-2A	Winding Thermocouple:	None
Bearing RTD:	None		

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Marks:

MODEL NUMBER:	5KAF449SAA325	Service Factor:	1.15
Outline Drawing:	239C7800AK	Alt Service Factor:	--
Connection Diagram:	GEM2034E-FIG8	ASD Type:	PWM
Instruction Book:	GEI-56128	Time Rating:	CONT
Design Code:	49BD3039A	Enclosure:	TEBV
Type:	KAF	Encl Construction:	A\$D
Frame:	449T	Ambient Max (°C):	40
Phases:	3	Alt Ambient Max(°C):	--
Poles:	6	Insulation Class:	H
Output Power:	200HP 148KW	NEMA Design:	--
Output Power (2):	200HP 148KW	Nominal Efficiency:	96.2 %
Output Power (3):		Guaranteed Efficiency:	95.4 %
RPM:	1787	3/4 Load Efficiency:	96.4 %
RPM (2):	1190	KVA Code:	K
RPM (3):	-	Max KVAR:	66.8
Voltage:	460	Power Factor:	84.0
Voltage (2):	460	Service Factor SINE:	1.15
Voltage (3):	6	Service Factor ASD:	1
Hertz:	90	Min Supply Wires:	-
Hertz – 2:	60	IP:	55
Hertz – 3:	0.3	Vibration Limit:	--
Amps – FL:	218.1	Bearing Lubrication:	MOBIL POLYREX EM
Amps – FL- 2:	232.0	Bearing - DE:	6318ZC3
Amps - FL- 3:	232.0	Bearing - ODE:	6318ZC3-VL0241
Speed Range RPM:	1-1190	Estimated Weight:	2680 Lbs
Const HP RPM:	1190-1787		

Totally Enclosed Blower-Ventilated**Stamped Nameplate Notes:**

ALTERNATE RATING FOR PWM CONTROL: 1.0SF 40C AMB
 INVERTER DUTY CONSTANT TORQUE RANGE: 0-60HZ
 THERMOSTAT LEADS TB1-TB2 TRIP
 IP 55
 CLASS H INS WITH CLASS F RISE AT 1.00 SF,
 PWM OPERATION
 INVERTER DUTY

Additional Information:

6P - T EXTN - SPLIT LEAD
 700 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

F1 MOUNTING
PAINTED ODE ACCESSORY RABBET
SGR #235A4970AG8 MOUNTED ON DE BRG CAP
INSULATED BEARING AT ODE

Performance Characteristics

1st Winding 1st Connection

Design: 49BD3039A

Marks:

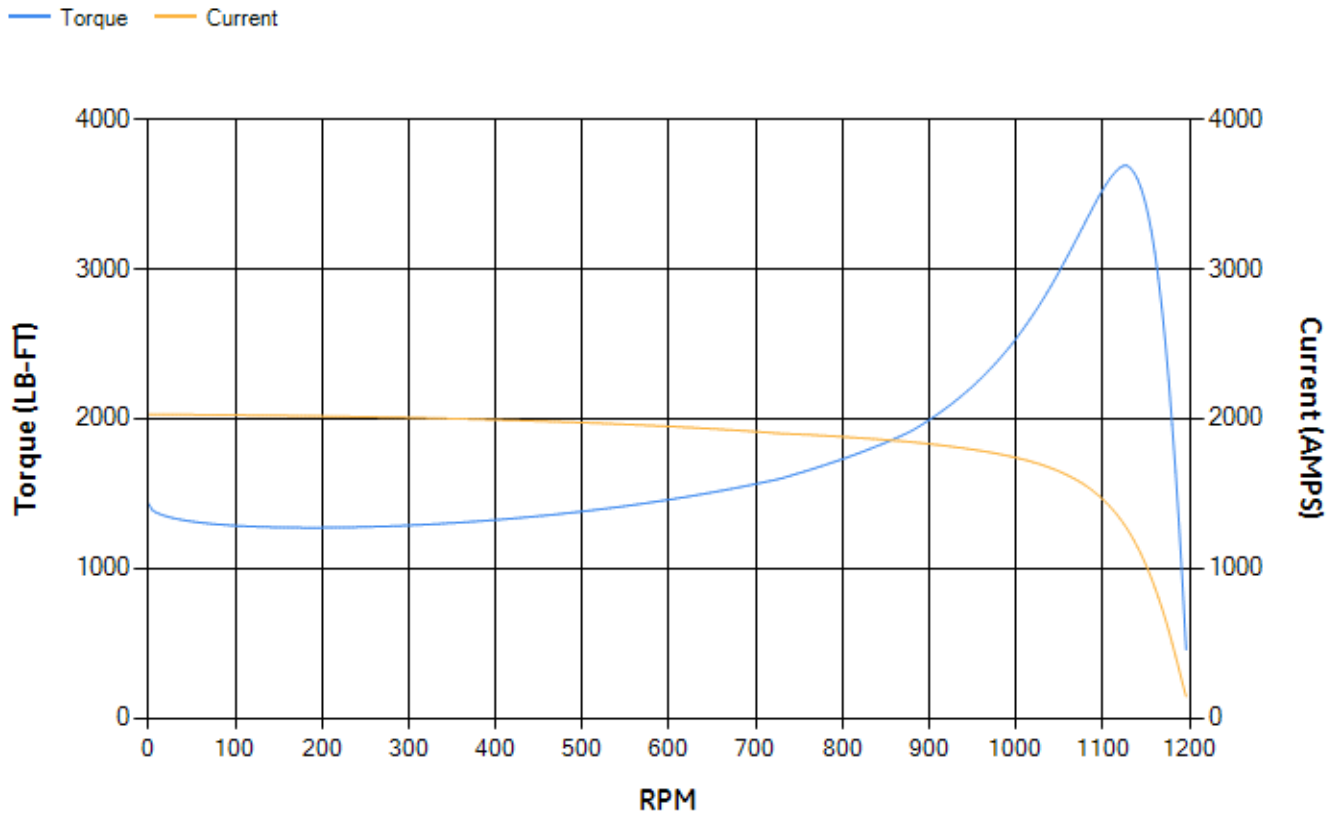
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	95.74	95.92	96.34	96.35	96.13	94.33	0.00
% PF	86.59	85.88	84.3	79.47	69.07	45.94	2.54
AMPS	282.23	261.33	230.49	183.34	140.96	108	92.91

TORQ(FL)#FT	881.26	TORQ(LR)%FL	162.3	TORQ(BD)%FL	417.87
AMPS(LR)	2028.66	PF AT START	0.25		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 15389 Lb-Ft Sq (647.88 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 41 seconds. Safe stall time at 100% voltage is 89 seconds cold, 53 seconds hot. Rotor inertia is 140.25 Lb-Ft Sq (5.9 Kg-meter Sq).

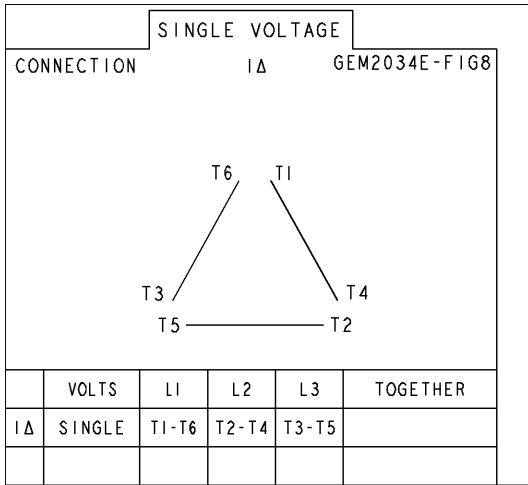
Open Circuit A-C:	0.87	Short Circuit D-C:	0.024
Short Circuit A-C:	0.036	X/R Ratio:	9.234
Stator Slots:	72	Rotor Slots:	58

Speed Torque Current Curve (First Connection, First Speed)



Marks:

Connection Diagram
GEM2034E-FIG8



Thermostat Connection
3027JE-2A

