

Product Information Packet

January 12, 2017

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

Model Number:	5KAF254SAA202C
Catalog Number:	M9306
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG9
Outline Drawing:	4002B5825PBP5263

Accessory Connection Diagrams			
Bearing Thermocouple:	None	Heater:	None
RTD:	None	Thermistor:	None
Thermostat:	3027JE-2	Winding Thermocouple:	None
Bearing RTD:	None		

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Marks:

MODEL NUMBER:	5KAF254SAA202C	Estimated Weight:	315 Lbs
Outline Drawing:	4002B5825PBP5263	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG9	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	A\$D
Design Code:	25BD1129A	Ambient Max(°C):	40
Type:	KAF	Alt Ambient Max(°C):	--
Frame:	254TCZ	Insulation Class:	H
Phases:	3	NEMA Design:	--
Poles:	4	Nominal Efficiency:	92.4 %
Output Power:	15HP 11.1KW	Guaranteed Efficiency:	91.0
RPM:	1780	3/4 Load Efficiency:	93.2
Voltage:	230/460	KVA Code:	K
Hertz:	60	Max KVAR:	5.6
Amps - FL:	36.2/18.1	Power Factor:	84.0
Service Factor:	1.00	Bearing - DE:	6310ZC3
Alt Service Factor:	--	Bearing - ODE:	6309ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

THERMOSTAT LEADS PC-PC

HP RPM VOLTS HZ AMPS

15 2665 230/460 90 34/17

15 1780 230/460 60 36.2/18.1

0 0 9/17 0.8 36.2/18.1

SPEED RANGE CONST TORQUE 0-1775 RPM

SPEED RANGE CONST HP 1775-2665 RPM

SF 1.0 - SINE 1.0 ASD - ASD TYPE PWM - POLES 4

CLASS H INS WITH CLASS F RISE AT 1.00SF

PWM OPERATION

INVERTER DUTY

Additional Information:

4P - TZ EXTN

C/BOX 137 CU IN-1.25 NPT

F1 CONDUIT BOX MOUNTING

AUX LEADS EXIT WITH MOTOR LEADS

"C" FACE AT DE ENDSHIELD

ODE PROVISION FOR MTG TACH WITH 1.50" EXTEN

OIL RESISTANT SLEEVING ON LEADS

SGR #235A4970AG4 MOUNTED ON DE BRG CAP



Performance Characteristics

1st Winding 1st Connection

Design: 25BD1129A

Marks:

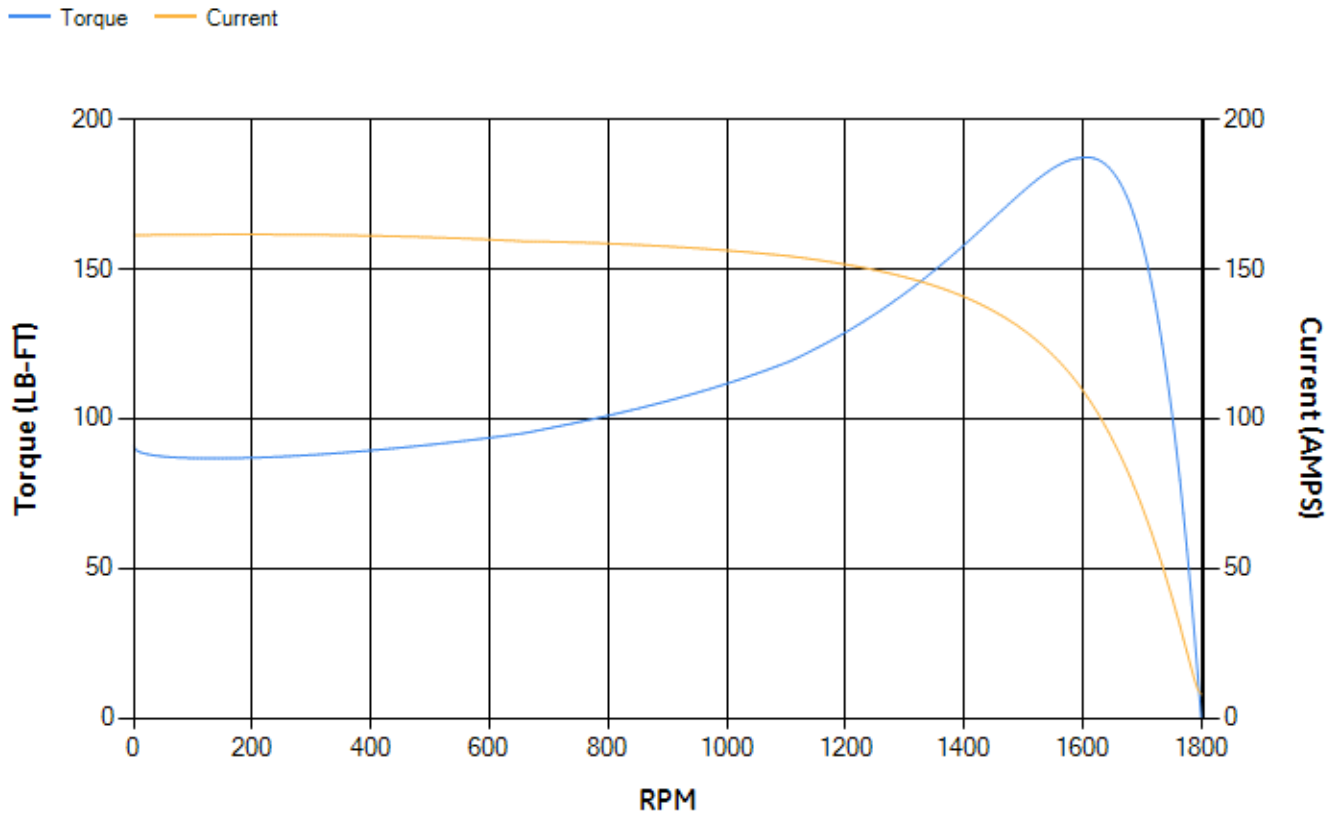
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	92.46	92.72	93.22	93.17	92.43	88.51	0.00
% PF	87.12	86.18	84.21	78.61	67.34	44.42	5.05
AMPS	21.79	20.21	17.88	14.38	11.28	8.93	7.84

TORQ(FL)#FT	44.3	TORQ(LR)%FL	204.76	TORQ(BD)%FL	420.51
AMPS(LR)	161.29	PF AT START	0.43		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 323 Lb-Ft Sq (13.6 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 19 seconds. Safe stall time at 100% voltage is 41 seconds cold, 30 seconds hot. Rotor inertia is 2.1 Lb-Ft Sq (0.09 Kg-meter Sq).

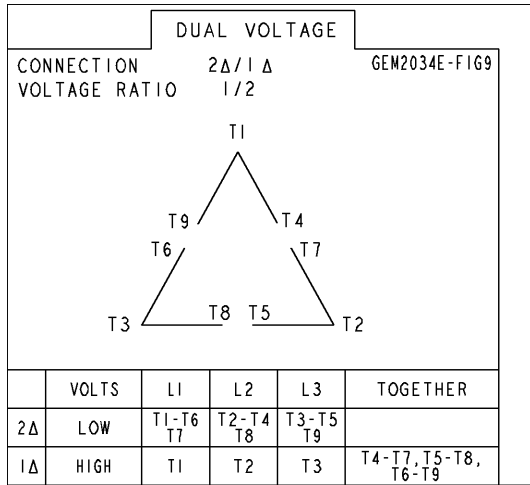
Open Circuit A-C:	0.453	Short Circuit D-C:	0.009
Short Circuit A-C:	0.017	X/R Ratio:	3.29
Stator Slots:	48	Rotor Slots:	40

Speed Torque Current Curve (First Connection, First Speed)



Marks:

Connection Diagram
GEM2034E-FIG9



Thermostat Connection
3027JE-2

FIG. 2
THERMOSTAT CONN.

