

Product Information Packet

January 12, 2017

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

Model Number:	5KAF284SAA202C
Catalog Number:	M9308
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG9
Outline Drawing:	4002B5828PBP5435

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

Table of Contents	
Specification	01
Performance Characteristics	02
Outline Drawing	03
Connection Drawing(s)	04



Marks:

MODEL NUMBER:	5KAF284SAA202C	Estimated Weight:	460 Lbs
Outline Drawing:	4002B5828PBP5435	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG9	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	A\$D
Design Code:	28BD1006A	Ambient Max(°C):	40
Type:	KAF	Alt Ambient Max(°C):	--
Frame:	284TC	Insulation Class:	H
Phases:	3	NEMA Design:	--
Poles:	4	Nominal Efficiency:	93.6 %
Output Power:	25HP 18.5KW	Guaranteed Efficiency:	92.4
RPM:	1780	3/4 Load Efficiency:	94.1
Voltage:	230/460	KVA Code:	H
Hertz:	60	Max KVAR:	8.5
Amps - FL:	59.6/29.8	Power Factor:	84.0
Service Factor:	1.00	Bearing - DE:	6310ZC3
Alt Service Factor:	--	Bearing - ODE:	6310ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

THERMOSTAT LEADS TB1-TB2

IP 55

HP	RPM	VOLTS	HZ	AMPS
25	2670	230/460	90	57.2/28.6
25	1780	230/460	60	59.6/29.8
0	0	6/12	0.6	59.6/29.8

SPEED RANGE CONST TORQUE 0-1780 RPM

SPEED RANGE CONST HP 1780-2670 RPM

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

CLASS H INS WITH CLASS F RISE AT 1.00SF,
INVERTER DUTY PER NEMA MG1 PART31 WITH PWM CONTROL

Additional Information:

4P - T EXTN

STANDARD FLOOR MOUNT

C/BOX 137 CU IN-1.50 NPT

F1 CONDUIT BOX MOUNTING

AUX LEADS EXIT WITH MOTOR LEADS

"C" FACE AT DE ENDSHIELD AK=10 1/2"

INPRO SEAL DE / SLINGER ODE

ODE PROVISION FOR MTG TACH WITH 1.50" EXTEN & SHAFT COVER

OIL RESISTANT SLEEVING ON LEADS

SHAFT GROUNDING RING MOUNTED ON DE BRG CAP

PAINTED ODE ACCESSORY RABBET



Performance Characteristics

1st Winding 1st Connection

Design: 28BD1006A

Marks:

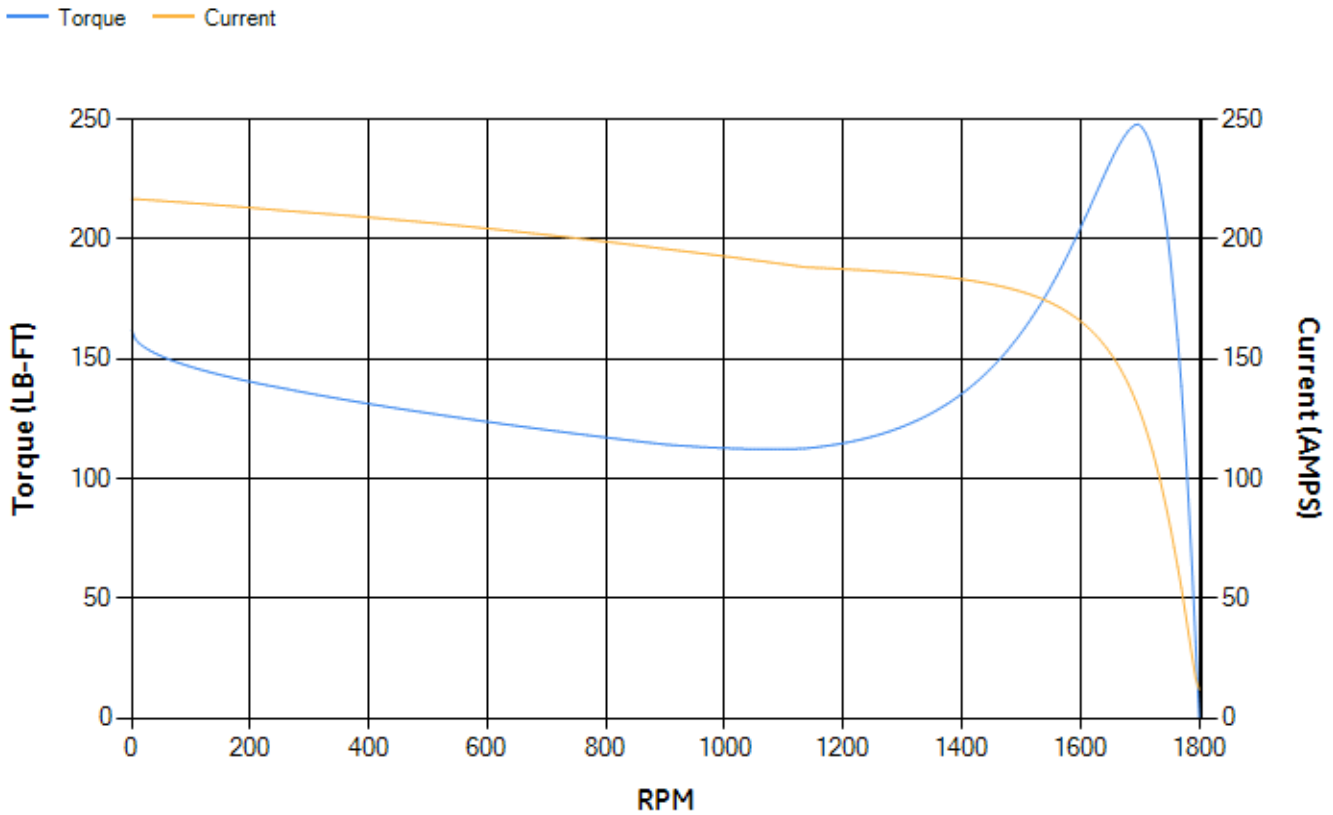
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	93.23	93.51	94.05	94.11	93.63	90.49	0.00
% PF	85.89	85.27	83.83	79.23	69.15	46.68	4.44
AMPS	36.53	33.75	29.66	23.53	18.07	13.85	11.86

TORQ(FL)#FT	73.64	TORQ(LR)%FL	220.15	TORQ(BD)%FL	335.56
AMPS(LR)	216.78	PF AT START	0.39		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 901 Lb-Ft Sq (37.93 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 46 seconds. Safe stall time at 100% voltage is 92 seconds cold, 70 seconds hot. Rotor inertia is 5.1 Lb-Ft Sq (0.21 Kg-meter Sq).

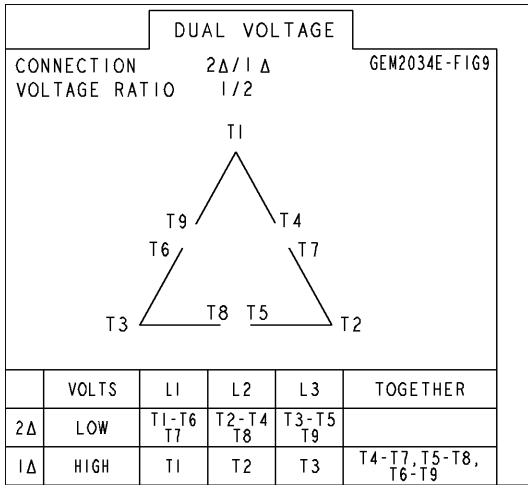
Open Circuit A-C:	0.641	Short Circuit D-C:	0.015
Short Circuit A-C:	0.028	X/R Ratio:	5.715
Stator Slots:	48	Rotor Slots:	40

Speed Torque Current Curve (First Connection, First Speed)



Marks:

Connection Diagram
GEM2034E-FIG9



Thermostat Connection
3027JE-2A

