

Product Information Packet

January 12, 2017

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

Model Number:	5KAF213SAA202C
Catalog Number:	M9304
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG9
Outline Drawing:	4002B5821PBP5458

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:	5KAF213SAA202C	Estimated Weight:	200 Lbs
Outline Drawing:	4002B5821PBP5458	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG9	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	A\$D
Design Code:	21BD1003A	Ambient Max(°C):	40
Type:	KAF	Alt Ambient Max(°C):	--
Frame:	213TC	Insulation Class:	H
Phases:	3	NEMA Design:	--
Poles:	4	Nominal Efficiency:	91.7 %
Output Power:	7.5HP 5.6KW	Guaranteed Efficiency:	90.2
RPM:	1770	3/4 Load Efficiency:	92.0
Voltage:	230/460	KVA Code:	K
Hertz:	60	Max KVAR:	2.7
Amps - FL:	18.6/9.3	Power Factor:	82.5
Service Factor:	1.00	Bearing - DE:	6309ZC3
Alt Service Factor:	--	Bearing - ODE:	6208ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

THERMOSTAT LEADS TB1-TB2
 IP 55
 HP RPM VOLTS HZ AMPS
 7.5 2655 230/460 90 17.8/8.9
 7.5 1770 230/460 60 18.6/9.3
 0 0 9/19 1 18.6/9.3
 SPEED RANGE CONST TORQUE 0-1770 RPM
 SPEED RANGE CONST HP 1770-2655 RPM
 SF 1.00 - SINE 1.00 ASD - ASD TYPE PWM - POLES 4
 CLASS H INS WITH CLASS F RISE AT 1.00SF,
 INVERTER DUTY PER NEMA MG1 PART 31
 WITH PWM CONTROL

Additional Information:

4P - T EXTN
 STANDARD FLOOR MOUNT
 C/BOX 55 CU IN-1.00 NPT
 F1 CONDUIT BOX MOUNTING
 AUX LEADS EXIT WITH MOTOR LEADS
 "C" FACE AT DE ENDSHIELD AK=8 1/2"
 INPRO SEAL DE ONLY
 GROUND SCREW ON FRAME
 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
 WHEN TACH / ENCODER IS USED, ITS MANDATED TO BE

USED IN CONTROL CIRCUITS PER CLASS 2 CIRCUITS OF
CANADIAN ELECTRIC COMMISSION RULE 16-222(1)(A)

Performance Characteristics

1st Winding 1st Connection

Design: 21BD1003A

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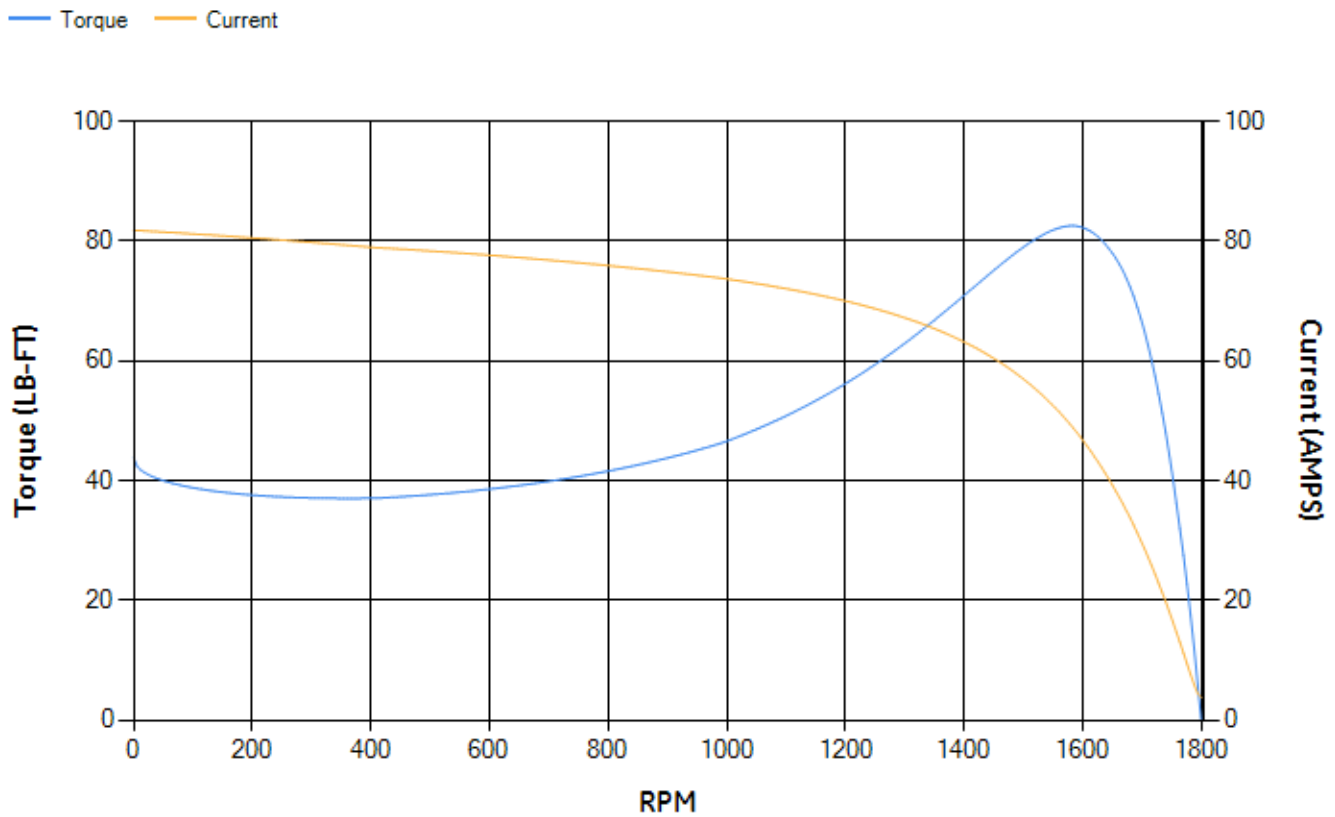
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	90.73	91.14	91.83	92.03	91.4	87.29	0.00
% PF	84.59	84.02	82.61	78.01	67.96	46.11	5.91
AMPS	11.43	10.54	9.25	7.33	5.65	4.36	3.74

TORQ(FL)#FT	22.23	TORQ(LR)%FL	197.03	TORQ(BD)%FL	367.91
AMPS(LR)	81.81	PF AT START	0.4		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 197 Lb-Ft Sq (8.29 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 27 seconds. Safe stall time at 100% voltage is 60 seconds cold, 43 seconds hot. Rotor inertia is 0.82 Lb-Ft Sq (0.03 Kg-meter Sq).

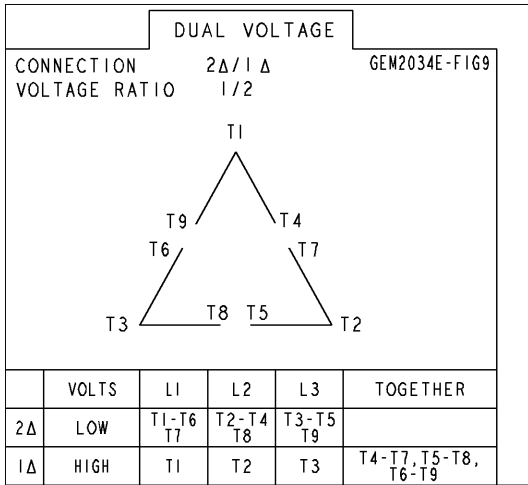
Open Circuit A-C:	0.398	Short Circuit D-C:	0.009
Short Circuit A-C:	0.016	X/R Ratio:	3.545
Stator Slots:	36	Rotor Slots:	28

Speed Torque Current Curve (First Connection, First Speed)

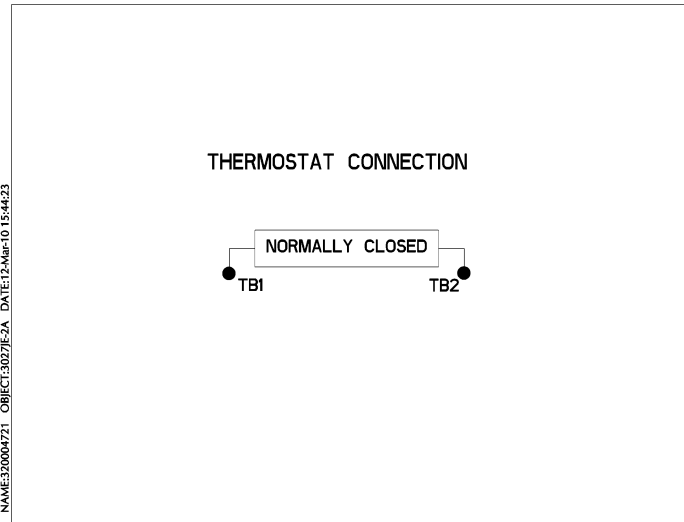


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Connection Diagram
GEM2034E-FIG9



Thermostat Connection
3027JE-2A



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	128D6006PK1	4004D5282TC1
Bearing	235A2607AA01	235A2603AA01
Slinger/Inproseal	235A4575GC6	149C4399G01

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	159C6700G02
Fan Cover	4004D5782PB1

Conduit & Accessories Box Assembly	
Part Description	Part#
Conduit Box	4002B5721PA-G01

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	