

Product Information Packet

November 8, 2016

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

Model Number:	5KS324SAA304D9
Catalog Number:	M9758
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG7
Outline Drawing:	239C6000AE

Accessory Connection Diagrams			
Bearing Thermocouple:	None	Heater:	None
RTD:	None	Thermistor:	None
Thermostat:	None	Winding Thermocouple:	None
Bearing RTD:	None		

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Marks:

MODEL NUMBER:	5KS324SAA304D9	Estimated Weight:	660 Lbs
Outline Drawing:	239C6000AE	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG7	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	X\$D
Design Code:	32BD3099B	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	65
Frame:	324T	Insulation Class:	H
Phases:	3	NEMA Design:	B
Poles:	6	Nominal Efficiency:	93.0 %
Output Power:	25HP 18.5KW	Guaranteed Efficiency:	92.4
RPM:	1180	3/4 Load Efficiency:	93.4
Voltage:	575	KVA Code:	G
Hertz:	60	Max KVAR:	10.3
Amps - FL:	25.6	Power Factor:	78.5
Service Factor:	1.25	Bearing - DE:	6312ZC3
Alt Service Factor:	1.00	Bearing - ODE:	6312ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

SF AMPS 31.3
 STAMP NP249A5564P051 AS BELOW:
 MODEL:5KS324SAA304D9 S/N: XXX
 CSA CERTIFIED CSA09.2216219 FOR EX NA IIC 200 C GC
 CL 1 ZONE2 AEX NA IIC 200C;CL 1 DIV2 GRP ABCD 200C
 IN -40C <= AMB <= 40C, 1.0 SF ON SINE-WAVE PWR
 SURF TEMP 215C AT 1.25SF ON SINE-WAVE PWR
 OR 200C VT OR 200C CT OR 200C CHP PWM CONTROL
 ALTERNATE RATING FOR PWM CONTROL 1.0SF 40C AMB
 VT 0 - 60 HZ, CT 3-60 HZ, CHP 60-90 HZ.

Additional Information:

6P - T EXTN
 346 CU IN - 3.00" NPT
 OIL RESISTANT SLEEVING ON LEADS
 F1 MOUNTING

Performance Characteristics

1st Winding 1st Connection

Design: 32BD3099B

Marks:

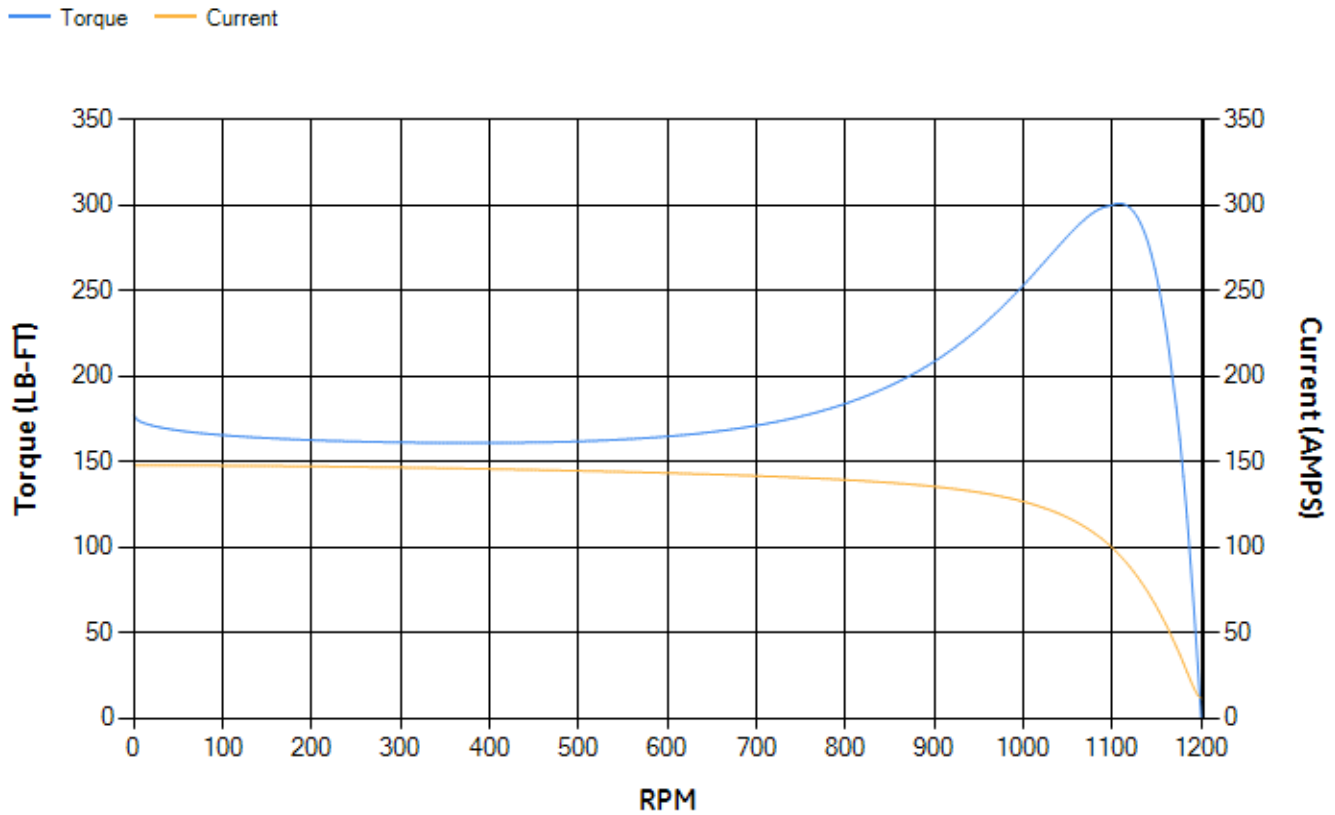
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	92.16	92.53	93.18	93.36	92.9	89.53	0.00
% PF	81.02	80.32	78.63	73.29	62.25	40.33	4.01
AMPS	31.33	28.96	25.53	20.52	16.18	12.96	11.45

TORQ(FL)#FT	111.2	TORQ(LR)%FL	159.39	TORQ(BD)%FL	268.19
AMPS(LR)	147.72	PF AT START	0.33		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 2437 Lb-Ft Sq (102.6 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 62 seconds. Safe stall time at 100% voltage is 116 seconds cold, 75 seconds hot. Rotor inertia is 8.96 Lb-Ft Sq (0.38 Kg-meter Sq).

Open Circuit A-C:	0.34	Short Circuit D-C:	0.017
Short Circuit A-C:	0.022	X/R Ratio:	6.555
Stator Slots:	54	Rotor Slots:	40

Speed Torque Current Curve (First Connection, First Speed)



Marks:

Connection Diagram
GEM2034E-FIG7



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	115E4200AA1	115E4200LA1
Bearing	235A2609AA01	235A2609AA01
Slinger/Inproseal	149C4399G04	149C4399G04

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	159C7000G01
Fan Cover	128D6800AA1

Conduit & Accessories Box Assembly	
Part Description	Part#
Conduit Box	149C4429AA2

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	