



GE INDUSTRIAL MOTORS
a **WOLONG** company

Product Technical Information

May 7, 2023

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

Model Number:	5KGS365SAA320D1
Catalog Number:	M8983
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG7
Outline Drawing:	239C6200AA

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: 5KGS365SAA320D1
Outline Drawing: 239C6200AA
Connection Diagram: GEM2034E-FIG7
Instruction Book: GEI-56128
Design Code: 36BD3093A
Type: KGS
Frame: 365T
Phases: 3
Poles: 6
Output Power: 50HP 37KW
RPM: 1185
Voltage: 460
Hertz: 60
Amps - FL: 61.0
Service Factor: 1.15
Alt Service Factor: --

Estimated Weight: 1020 Lbs
Time Rating: CONT
Enclosure: TEFC
Encl Construction: X\$D
Ambient Max(°C): 40
Alt Ambient Max(°C): --
Insulation Class: H
NEMA Design: C
Nominal Efficiency: 94.1 %
Guaranteed Efficiency: 93.6 %
3/4 Load Efficiency: --
KVA Code: G
Max KVAR: 18.4
Power Factor: 81.5
Bearing - DE: NU 314
Bearing - ODE: 6314ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

ROLLER BEARING - FOR BELTED LOAD ONLY
THERMOSTAT LEADS TB1-TB2 TRIP
STAMP NP249A5564P051 AS BELOW:
MODEL:5KGS365SAA320D1 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 -25C <= AMB <= 40C, 1.0 SF ON SINE-WAVE PWR
SURF TEMP 230C AT 1.15SF ON SINE-WAVE PWR
OR 200C VT OR 230C CT OR -- CHP PWM CONTROL
ALTERNATE RATING FOR PWM CONTROL 1.0SF 40C AMB
VT 0-60 HZ, CT 10-60 HZ, CHP -- HZ.



Additional Information:

6P - T EXTN
C/BOX 346 CU IN - 3.00" NPT
OIL RESISTANT SLEEVING ON LEADS
B5F4C4 HIGH FATIGUE STEEL AISI 4142 SHAFT MATERIAL
N.C. TRIP TSTAT LDS TO MAIN CONDUIT BOX
F1 MOUNTING



Performance Characteristics

1st Winding 1st Connection

Design: 36BD3093A

Marks:

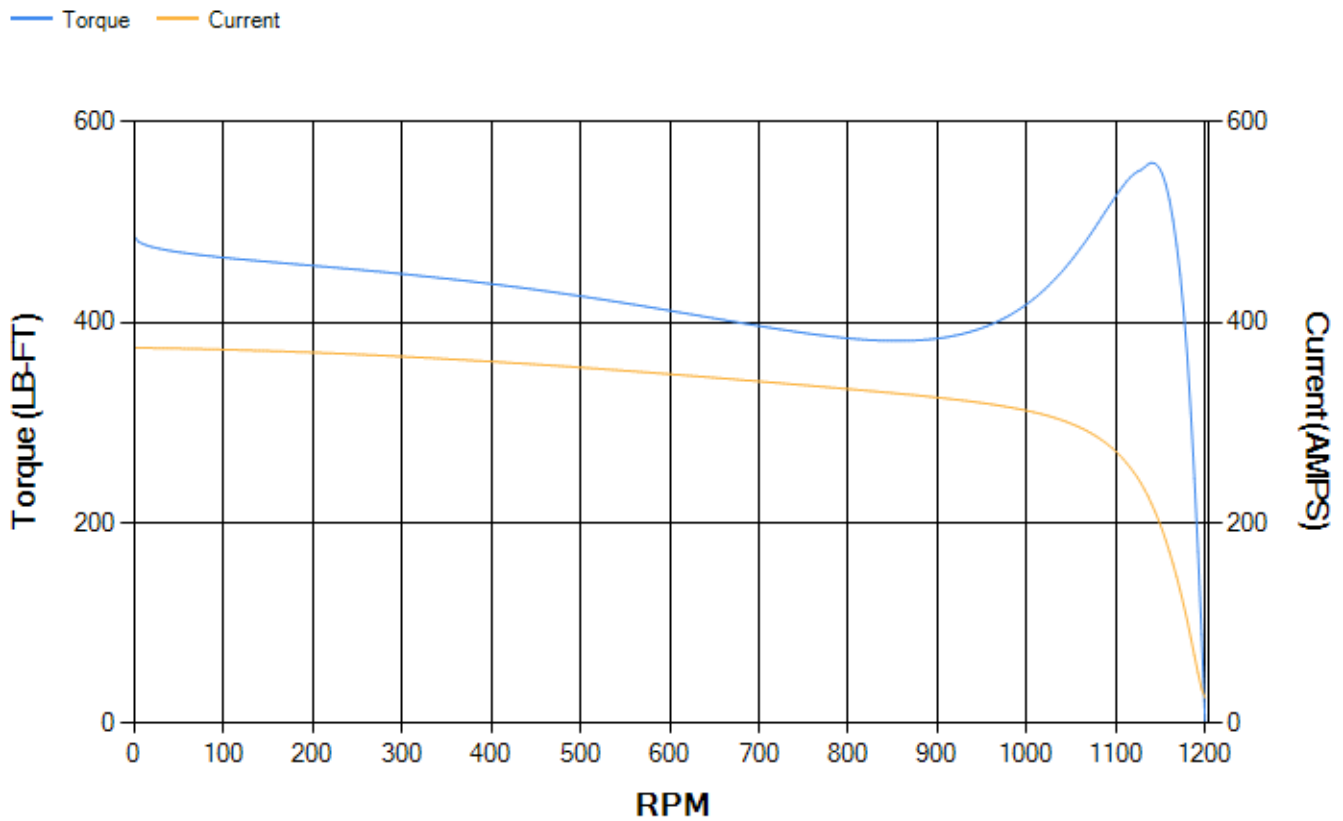
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	93.19	93.52	94.15	94.39	94.18	91.66	0.00
% PF	83.8	83.13	81.56	76.58	65.91	43.29	3.25
AMPS	74.91	69.22	60.8	48.55	37.69	29.48	25.64

TORQ(FL)#FT	221.49	TORQ(LR)%FL	219.29	TORQ(BD)%FL	248.99
AMPS(LR)	374.79	PF AT START	0.45		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 3198 Lb-Ft Sq (134.64 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 35 seconds. Safe stall time at 100% voltage is 75 seconds cold, 41 seconds hot. Rotor inertia is 22.28 Lb-Ft Sq (0.94 Kg-meter Sq).

Open Circuit A-C:	0.483	Short Circuit D-C:	0.014
Short Circuit A-C:	0.024	X/R Ratio:	5.391
Stator Slots:	72	Rotor Slots:	58

Speed Torque Current Curve (First Connection, First Speed)

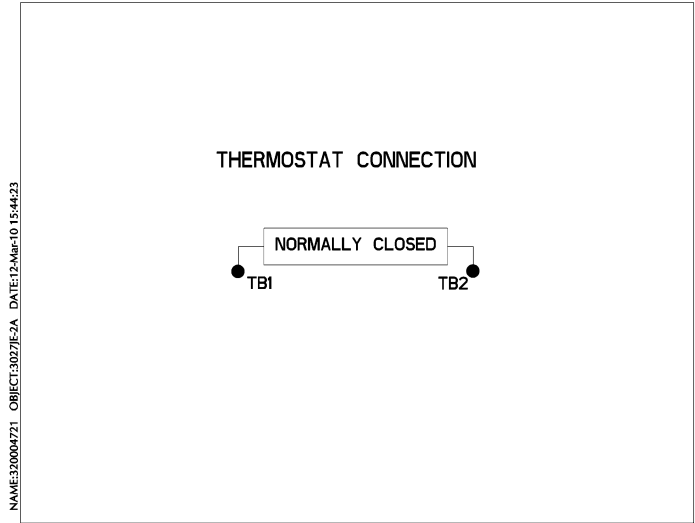


Marks:

Connection Diagram
GEM2034E-FIG7



Thermostat Connection
3027JE-2A



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	115E4250AA1	115E4250LK1
Bearing	235A2524AA01	235A2516AC01
Slinger/Inproseal	149C4399G05	149C4399G05

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	159C7100G01
Fan Cover	128D6810AA1

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

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

