



GE INDUSTRIAL MOTORS
a **WOLONG** company

Product Technical Information

June 25, 2020

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

Model Number:	5KS405XAA100
Catalog Number:	M9002
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG7
Outline Drawing:	239C6401FH

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:	5KS405XAA100	Estimated Weight:	1510 Lbs
Outline Drawing:	239C6401FH	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG7	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	841
Design Code:	40BD0052A	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	405TSC	Insulation Class:	H
Phases:	3	NEMA Design:	B
Poles:	2	Nominal Efficiency:	95.0 %
Output Power:	100HP 74KW	Guaranteed Efficiency:	94.5 %
RPM:	3565	3/4 Load Efficiency:	--
Voltage:	460	KVA Code:	G
Hertz:	60	Max KVAR:	17.1
Amps - FL:	108.0	Power Factor:	91.0
Service Factor:	1.15	Bearing - DE:	6213ZC3
Alt Service Factor:	--	Bearing - ODE:	6213ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

EXCEPTION TO IEEE-STD-841-2009:SOUND POWER 91 DBA
 DE BRG 65BC02JP30, ODE BRG 65BC02JP30
 STAMP NP249A5564P051 AS BELOW:
 MODEL:5KS405XAA100 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 215C AT 1.15SF ON SINE-WAVE PWR
 OR 200C VT OR 230C CT OR ---C CHP PWM CONTROL
 ALTERNATE RATING FOR PWM CONTROL 1.0SF 40C AMB
 VT 0 - 60 HZ, CT 8.6 - 60 HZ, CHP --- HZ.



Additional Information:

2P - TS EXTN
PAINTED FRAME ID & SHAFT,
FAN COVER INSIDE & ODE E/S OUTSIDE
C FACE WITH 12.50 RABBIT ON DE
C/BOX 700 CU IN - 3.00" NPT
INPRO SEAL BOTH ENDS
OIL RESISTANT SLEEVING ON LEADS
.0015" TIR SHAFT RUNOUT
ROUTINE TEST REPORT AND 5 POINT VIBRATION TEST
REPORT INCLUDED IN C/B
COPPER WASHER UNDER HEADS OF BEARING CAP BOLTS,
APPLY TITE-SEAL (A50CD427A) ON BEARING CAP SCREWS,
RABBETS AND PLUG THREADS.
GROUND PAD
F1 MOUNTING



Performance Characteristics

1st Winding 1st Connection

Design: 40BD0052A

Marks:

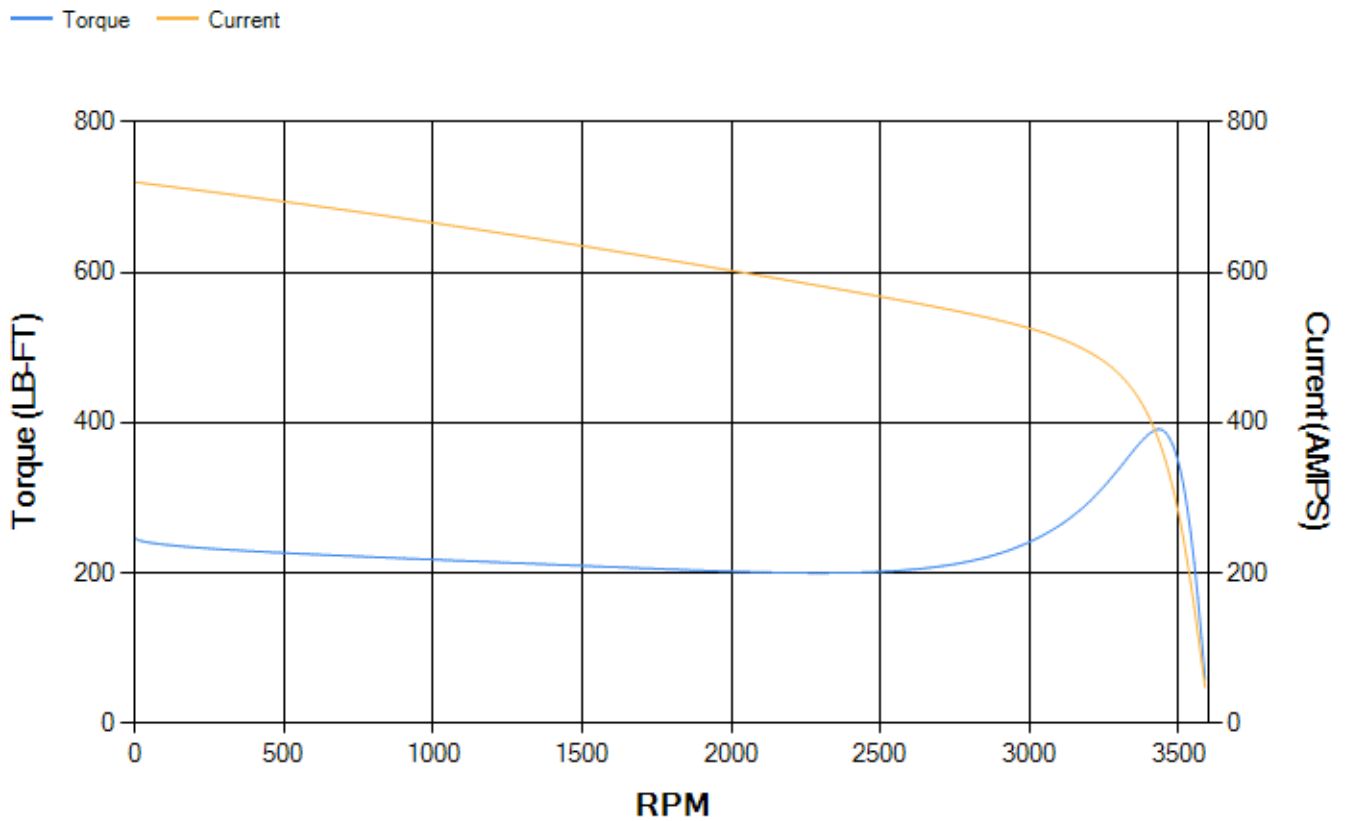
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	94.74	94.97	95.45	95.48	95.12	92.72	0.00
% PF	90.92	91.11	91.12	90.05	85.92	70.37	6.67
AMPS	135.81	124.39	107.62	81.65	57.26	35.86	23.79

TORQ(FL)#FT	147.31	TORQ(LR)%FL	167.5	TORQ(BD)%FL	265.45
AMPS(LR)	720.25	PF AT START	0.25		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 362 Lb-Ft Sq (15.24 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 24 seconds. Safe stall time at 100% voltage is 58 seconds cold, 29 seconds hot. Rotor inertia is 15.02 Lb-Ft Sq (0.63 Kg-meter Sq).

Open Circuit A-C:	1.211	Short Circuit D-C:	0.03
Short Circuit A-C:	0.044	X/R Ratio:	11.377
Stator Slots:	48	Rotor Slots:	38

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	115E4303KA1	115E4305LL1
Bearing	235A2517AC01	235A2517AC01
Slinger/Inproseal	235A4575GS3	235A4575GS3

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	159C7100AA11
Fan Cover	128D6832AA1

Conduit & Accessories Box Assembly	
Part Description	Part#
Conduit Box	118D4408AD2

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

