



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:	5KS447XAA100
Catalog Number:	M9005
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG20
Outline Drawing:	239C6801GW

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:	5KS447XAA100	Estimated Weight:	2840 Lbs
Outline Drawing:	239C6801GW	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG20	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	841
Design Code:	49BD0192A	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	447TSC	Insulation Class:	H
Phases:	3	NEMA Design:	B
Poles:	2	Nominal Efficiency:	95.4 %
Output Power:	200HP 148KW	Guaranteed Efficiency:	95.0 %
RPM:	3580	3/4 Load Efficiency:	--
Voltage:	460	KVA Code:	G
Hertz:	60	Max KVAR:	30.1
Amps - FL:	212.0	Power Factor:	92.5
Service Factor:	1.15	Bearing - DE:	6314ZC3
Alt Service Factor:	--	Bearing - ODE:	6314ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

EXCEPTION TO IEEE-STD-841-2009
ESTIMATED SOUND POWER AT NO-LOAD: 93DBA
DE BRG 70BC03JP30, ODE BRG 70BC03JP30
STAMP NP249A5564P051 AS BELOW:
MODEL:5KS447XAA100 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 215C CT OR --C CHP PWM CONTROL
ALTERNATE RATING FOR PWM CONTROL 1.0SF 40C AMB
VT 0 - 60 HZ, CT 30 - 60 HZ, CHP -- HZ.



Additional Information:

2P - TS EXTN - SPLIT LEAD
PAINTED FRAME ID & SHAFT,
FAN COVER INSIDE & ODE E/S OUTSIDE
C FACE WITH 16.00 RABBIT ON DE
C/BOX 700 CU IN - 3.00" NPT WITH DRAIN HOLES
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: 49BD0192A

Marks:

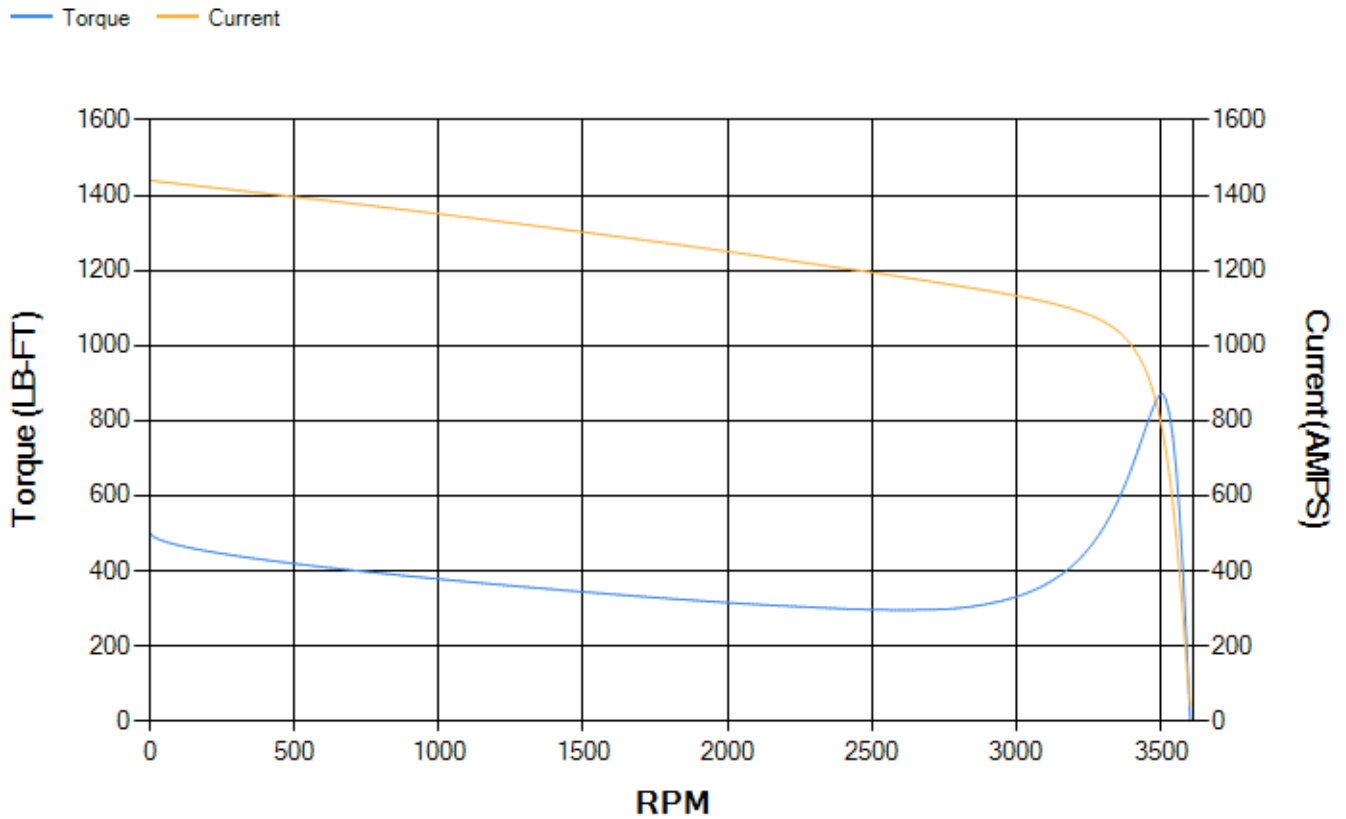
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	95.27	95.46	95.87	95.81	95.4	93.01	0.00
% PF	92.06	92.25	92.31	91.5	88.08	74.3	7.35
AMPS	266.78	244.46	211.53	160.15	111.38	67.72	41.93

TORQ(FL)#FT	293.32	TORQ(LR)%FL	171.51	TORQ(BD)%FL	297.47
AMPS(LR)	1439.37	PF AT START	0.24		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 775 Lb-Ft Sq (32.63 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 33 seconds. Safe stall time at 100% voltage is 75 seconds cold, 40 seconds hot. Rotor inertia is 51.17 Lb-Ft Sq (2.15 Kg-meter Sq).

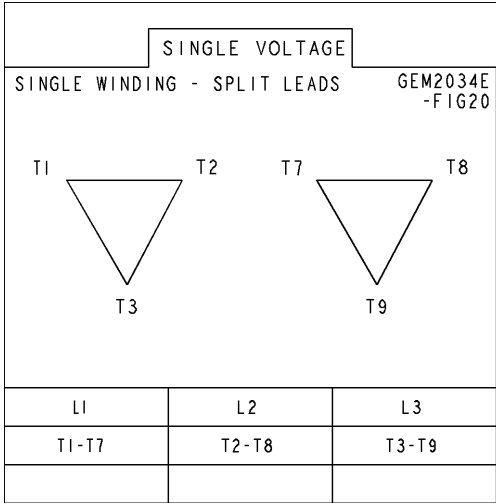
Open Circuit A-C:	2.41	Short Circuit D-C:	0.034
Short Circuit A-C:	0.072	X/R Ratio:	12.927
Stator Slots:	48	Rotor Slots:	38

Speed Torque Current Curve (First Connection, First Speed)



Marks:

Connection Diagram
GEM2034E-FIG20



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	115E4357KA1	115E4354LL1
Bearing	235A2516AC01	235A2516AC01
Slinger/Inproseal	235A4575GS3	235A4575GS3

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	159C7100AA1
Fan Cover	128D6841AA1

Conduit & Accessories Box Assembly	
Part Description	Part#
Conduit Box	118D4408DG2

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

