

Product Information Packet

November 8, 2016

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

Model Number:	5KS449XAA351B
Catalog Number:	M9365
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG7
Outline Drawing:	239C6800ZB

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:	5KS449XAA351B	Estimated Weight:	3060 Lbs
Outline Drawing:	239C6800ZB	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG7	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	841
Design Code:	49BD3013B	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	449T	Insulation Class:	H
Phases:	3	NEMA Design:	B
Poles:	6	Nominal Efficiency:	95.8 %
Output Power:	200HP 148KW	Guaranteed Efficiency:	95.4
RPM:	1190	3/4 Load Efficiency:	96.0
Voltage:	575	KVA Code:	G
Hertz:	60	Max KVAR:	49.2
Amps - FL:	182.0	Power Factor:	86.0
Service Factor:	1.15	Bearing - DE:	NU 318
Alt Service Factor:	--	Bearing - ODE:	6318ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

IEEE-STD-841-2009
 ROLLER BEARING - FOR BELTED LOAD ONLY
 DE BRG 90RU03M, ODE BRG 90BC03JP3
 STAMP NP249A5564P051 AS BELOW:
 MODEL:5KS449XAA351B 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 200C CHP PWM CONTROL
 ALTERNATE RATING FOR PWM CONTROL 1.0SF 40C AMB
 VT 0 - 60 HZ, CT 20-60 HZ, CHP 60-90 HZ.

Additional Information:

6P - T EXTN
 PAINTED FRAME ID & SHAFT,
 FAN COVER INSIDE & ODE E/S OUTSIDE
 700 CU IN - 3.00" NPT WITH DRAIN HOLES
 INPRO SEAL BOTH ENDS
 OIL RESISTANT SLEEVING ON LEADS
 .002" 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.
 B5F4C4 HIGH FATIGUE STEEL AISI 4142 SHAFT MATERIAL



GROUND PAD
F1 MOUNTING

Performance Characteristics

1st Winding 1st Connection

Design: 49BD3013B

Marks:

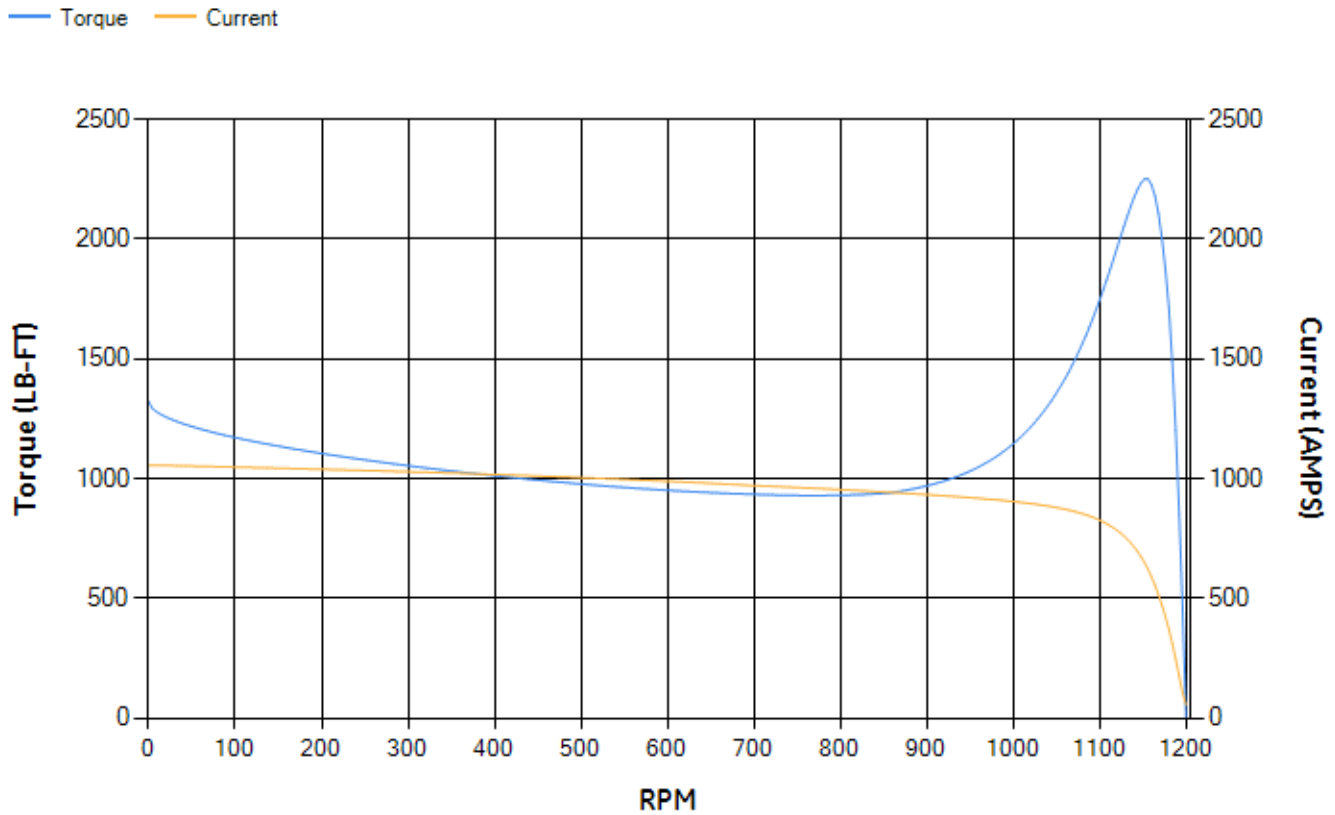
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	94.93	95.21	95.77	95.97	95.9	94.24	0.00
% PF	86.49	86.5	86.08	83.67	76.67	56.31	3.44
AMPS	227.99	209.11	181.64	139.87	101.83	70.55	54.87

TORQ(FL)#FT	881.84	TORQ(LR)%FL	149.95	TORQ(BD)%FL	255.18
AMPS(LR)	1056	PF AT START	0.27		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 13692 Lb-Ft Sq (576.43 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 65 seconds. Safe stall time at 100% voltage is 142 seconds cold, 78 seconds hot. Rotor inertia is 194.39 Lb-Ft Sq (8.18 Kg-meter Sq).

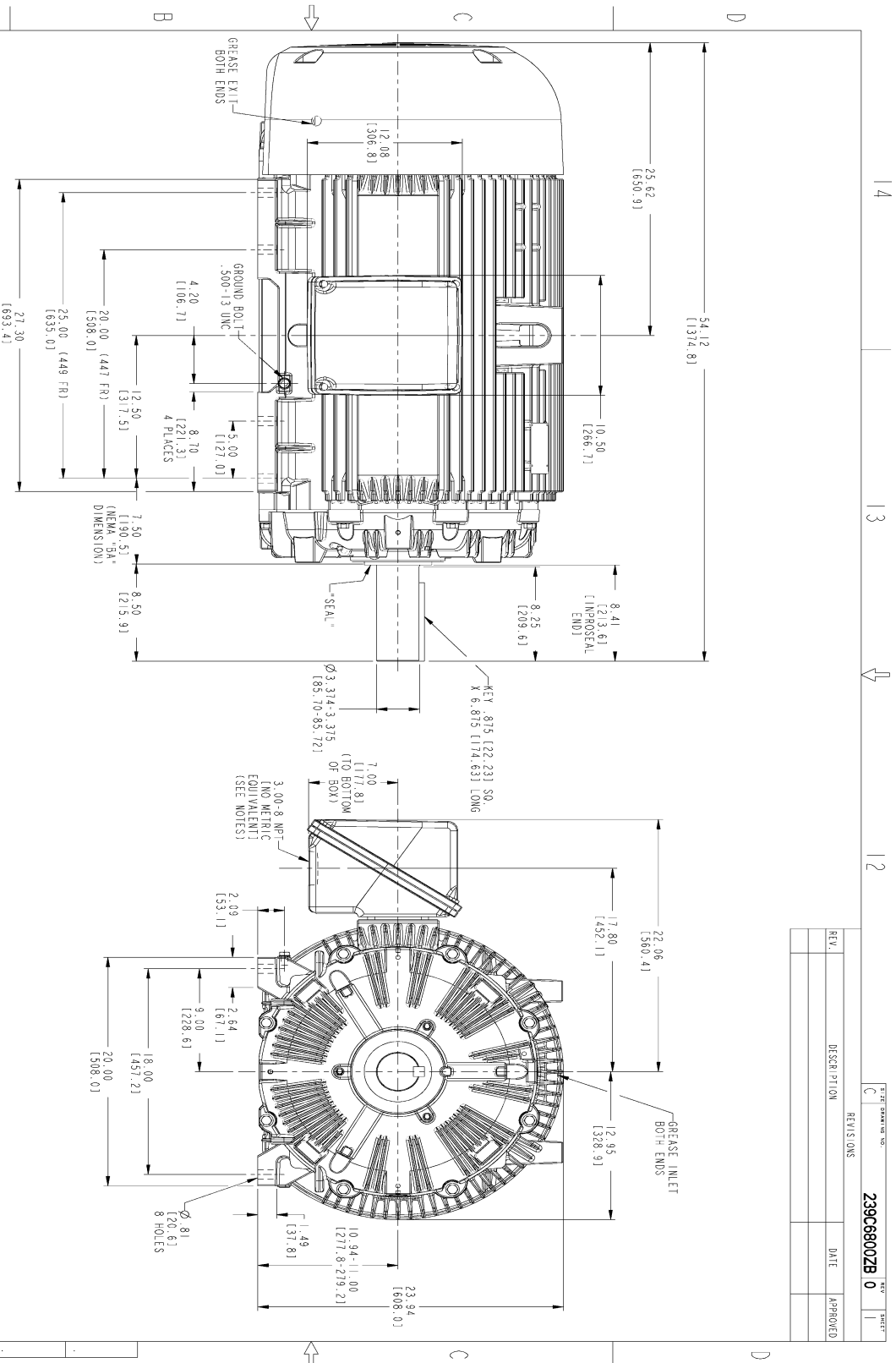
Open Circuit A-C:	1.133	Short Circuit D-C:	0.032
Short Circuit A-C:	0.054	X/R Ratio:	12.146
Stator Slots:	72	Rotor Slots:	58

Speed Torque Current Curve (First Connection, First Speed)



Marks:

SHEET NUMBER	0		
REV	REV'S	DATE	APPROVED
REV.	DESCRIPTION	DATE	APPROVED



NOTES:

1. CONDUIT BOX MAY BE PLACED WITH THE ENTRANCE DOWN, UP OR ON EITHER SIDE.
2. F-1 ASSEMBLY AS SHOWN.
3. F-2 ASSEMBLY CONDUIT BOX ON OPPOSITE SIDE.
4. BRACKETED DIMENSIONS ARE METRIC (MILLIMETERS).
5. TOLERANCE ON PERMISSIBLE SHAFT EXTENSION RANOUT IS .002 T.I.R.



THIRD ANGLE PROJECTION

SIGNATURES	DATE	GENERAL ELECTRIC COMPANY OUTLINE 447/449 T TFC 841 700 CU. IN. C. BOX, .002 TIR 239C6800ZB
MODEL	239C6800ZB	
SCALE	SCALE: 0.180	
CHECKED	DATE	
DESIGN		

Marks:

Connection Diagram
GEM2034E-FIG7



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	115E4355AA1	115E4355LL1
Bearing	235A2519AA01	235A2514AG01
Slinger/Inproseal	235A4575GS5	235A4575GS5

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	159C7100G03
Fan Cover	128D6841AA1

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

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	