

Product Information Packet

November 8, 2016

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

Model Number:	5KS445SAA2029C
Catalog Number:	M7758
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG1
Outline Drawing:	239C6600AA

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:	5KS445SAA2029C	Estimated Weight:	2060 Lbs
Outline Drawing:	239C6600AA	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG1	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	X\$D
Design Code:	44BD1174A	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	65
Frame:	445T	Insulation Class:	H
Phases:	3	NEMA Design:	B
Poles:	4	Nominal Efficiency:	95.8 %
Output Power:	150HP 111KW	Guaranteed Efficiency:	95.4
RPM:	1785	3/4 Load Efficiency:	95.7
Voltage:	460	KVA Code:	G
Hertz:	60	Max KVAR:	40.3
Amps - FL:	168.0	Power Factor:	87.0
Service Factor:	1.25	Bearing - DE:	NU 318
Alt Service Factor:	1.00	Bearing - ODE:	6318ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

ROLLER BEARING - FOR BELTED LOAD ONLY
 SF AMPS 209.0
 STAMP NP249A5564P051 AS BELOW:
 MODEL:5KS445SAA2029C 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 230C CT OR 200C CHP PWM CONTROL
 ALTERNATE RATING FOR PWM CONTROL 1.0SF 40C AMB
 VT 0-60 HZ, CT 15-60 HZ, CHP 60-90 HZ.

Additional Information:

4P - T EXTN
 C/BOX 700 CU IN - 3.00" NPT
 OIL RESISTANT SLEEVING ON LEADS
 B5F4C4 HIGH FATIGUE STEEL AISI 4142 SHAFT MATERIAL
 F1 MOUNTING

Performance Characteristics

1st Winding 1st Connection

Design: 44BD1174A

Marks:

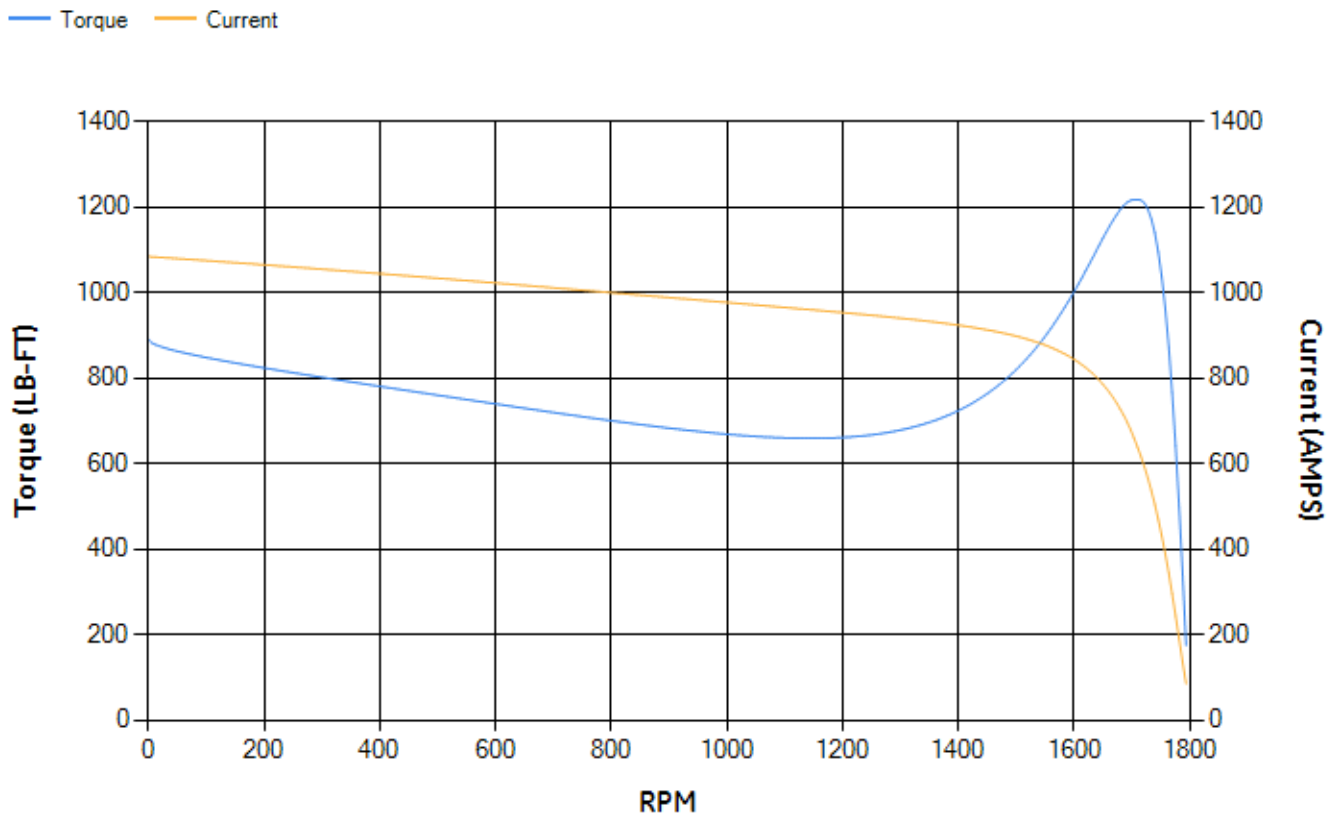
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	95.33	95.48	95.85	95.71	95.18	92.53	0.00
% PF	88.07	87.77	86.9	83.69	75.65	54.33	4.44
AMPS	209.03	192.66	168.54	131.45	97.48	69.82	56.22

TORQ(FL)#FT	441.48	TORQ(LR)%FL	201.51	TORQ(BD)%FL	275.26
AMPS(LR)	1083.71	PF AT START	0.33		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 3238 Lb-Ft Sq (136.32 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 30 seconds. Safe stall time at 100% voltage is 58 seconds cold, 37 seconds hot. Rotor inertia is 71.88 Lb-Ft Sq (3.03 Kg-meter Sq).

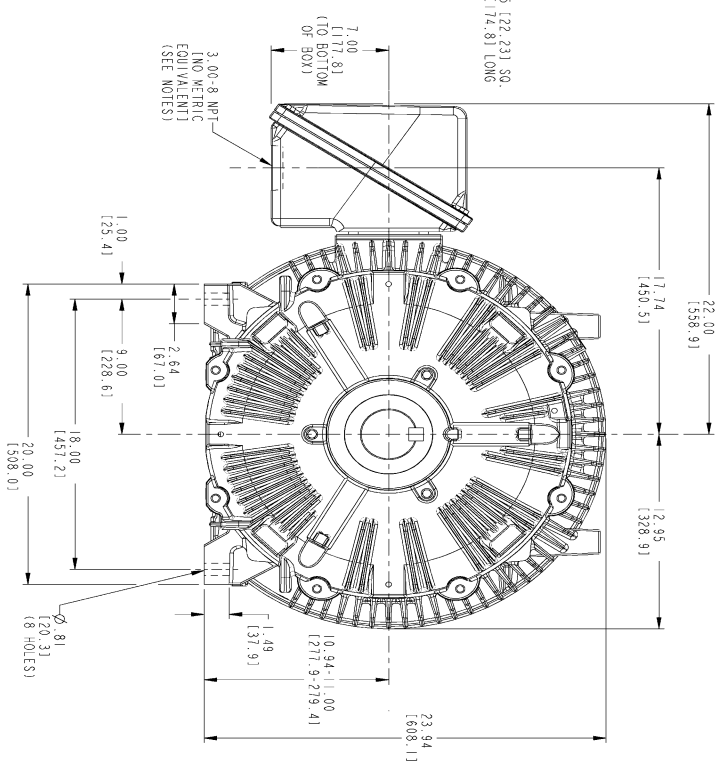
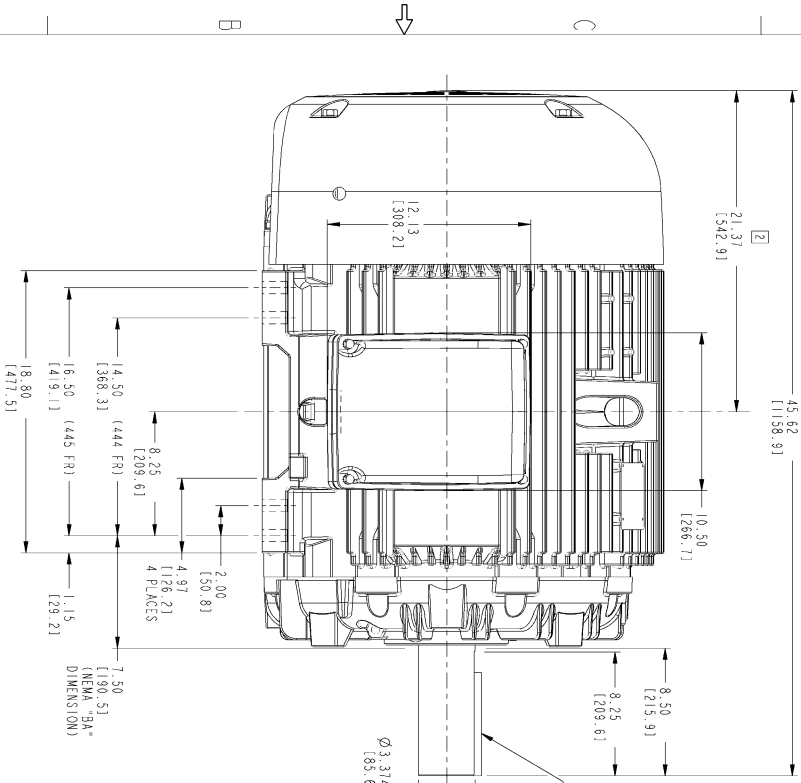
Open Circuit A-C:	0.857	Short Circuit D-C:	0.033
Short Circuit A-C:	0.04	X/R Ratio:	12.52
Stator Slots:	72	Rotor Slots:	58

Speed Torque Current Curve (First Connection, First Speed)

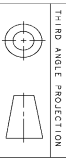


Marks:

REV.	DESCRIPTION	DATE	APPROVED
1	ECH 01-0371	02/05/01	
2	ADDED FAN COVER FIG. CPA	04/30/01	
3	SAC 02-0273 MARGAJ	02/04/02	
4	SAC 03-2024	08/06/03	
5	SAC 13-0248	03/22/13	



- NOTES:
- CONDUIT BOX MAY BE PLACED WITH THE ENTRANCE DOWN, UP OR ON EITHER SIDE.
 - F-1 ASSEMBLY AS SHOWN.
 - F-2 ASSEMBLY HAS CONDUIT BOX ON OPPOSITE SIDE.
 - BRACKETED DIMENSIONS ARE METRIC (MILLIMETERS).



THIRD ANGLE PROJECTION

SIGNATURES	DATE	GE Industrial Systems	GENERAL ELECTRIC COMPANY
SALES J.M. JUREN 04/17/00			Fort Wayne, Indiana
ORDER M. ELSWORTH 04/17/00			
SALES D. STARK 04/17/00			
ORDER M. ELSWORTH 04/17/00			
APPLIED PRACTICES			
SIZE DRAWING			
SCALE: 0.200	REF. NO.	239C6600AA	SHEET 1 OF 5
		700 CU. IN. CONDUIT BOX	
		444/445T TEFC	
		OUTLINE	

Marks:

Connection Diagram
GEM2034E-FIG1



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	115E4355AA1	115E4355LL1
Bearing	235A2519AA01	235A2514AG01
Slinger/Inproseal	149C4399G07	149C4399G07

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	159C7100G02
Fan Cover	128D6841AA1

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

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	