

Product Information Packet

November 8, 2016

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

Model Number:	5KS444XAA2028D
Catalog Number:	M9358
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG7
Outline Drawing:	239C6600ZA

Accessory Connection Diagrams			
Bearing Thermocouple:	None	Heater:	None
RTD:	None	Thermistor:	None
Thermostat:	None	Winding Thermocouple:	None
Bearing RTD:	None		

Table of Contents

Specification	01
Performance Characteristics	02
Outline Drawing	03
Connection Drawing(s)	04
Spare parts	05



Marks:

MODEL NUMBER:	5KS444XAA2028D	Estimated Weight:	1810 Lbs
Outline Drawing:	239C6600ZA	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG7	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	841
Design Code:	44BD1156A	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	444T	Insulation Class:	H
Phases:	3	NEMA Design:	B
Poles:	4	Nominal Efficiency:	95.4 %
Output Power:	125HP 92.5KW	Guaranteed Efficiency:	95.0
RPM:	1785	3/4 Load Efficiency:	95.7
Voltage:	460	KVA Code:	G
Hertz:	60	Max KVAR:	39.8
Amps - FL:	145.0	Power Factor:	84.5
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:5KS444XAA2028D 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 200 C VT OR 230 C CT OR 260 C CHP PWM CONTROL
 ALTERNATE RATING FOR PWM CONTROL 1.0SF 40C AMB
 VT 0-60 HZ, CT 6.7-60 HZ, CHP 60-90 HZ.

Additional Information:

4P - T EXTN
 PAINTED FRAME ID & SHAFT,
 FAN COVER INSIDE & ODE E/S OUTSIDE
 700 CU IN - 3.00" NPT
 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: 44BD1156A

Marks:

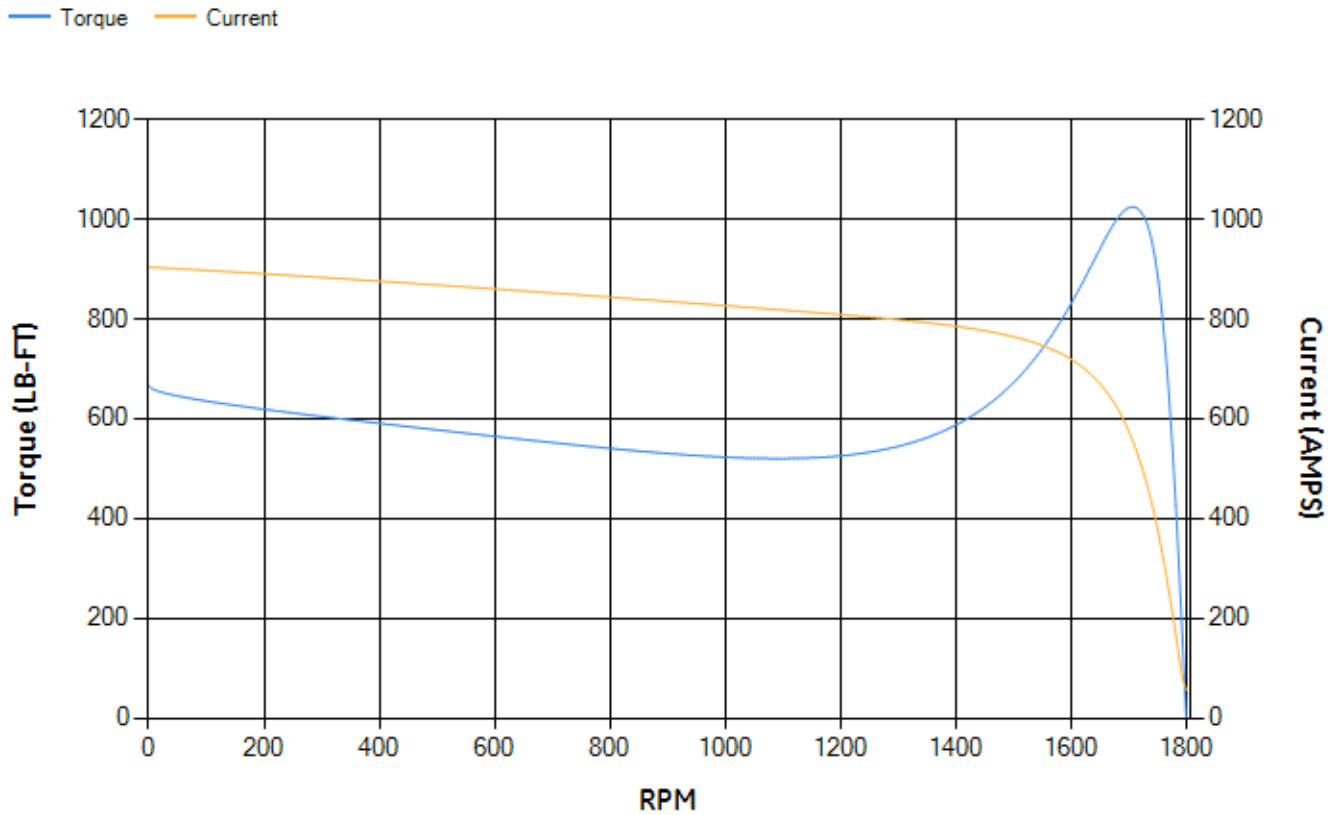
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	95.06	95.26	95.69	95.67	95.3	92.94	0.00
% PF	86.37	85.86	84.61	80.41	70.79	48.18	3.41
AMPS	178.12	164.5	144.51	114.06	86.71	65.31	55.48

TORQ(FL)#FT	368.12	TORQ(LR)%FL	181	TORQ(BD)%FL	277.88
AMPS(LR)	903.77	PF AT START	0.32		

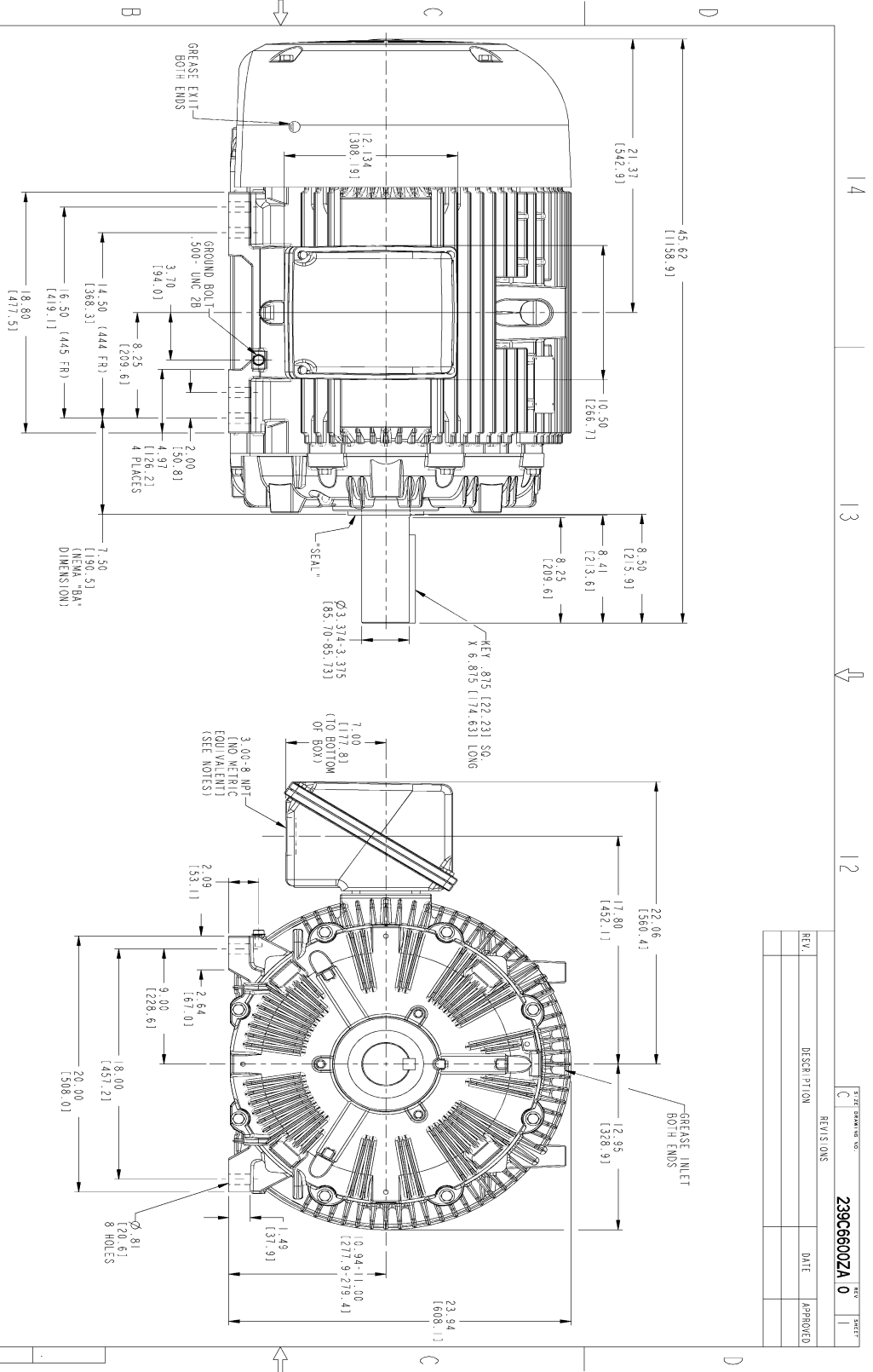
This motor is capable of two cold or one hot start with a maximum connected load inertia of 1901 Lb-Ft Sq (80.03 Kg-meter Sq)at 100% voltage, where the load torque varies with the square of the speed. Acceleration time with maximum inertia and the above load type is 23 seconds. Safe stall time at 100% voltage is 55 seconds cold, 28 seconds hot. Rotor inertia is 47.92 Lb-Ft Sq (2.02 Kg-meter Sq).

Open Circuit A-C:	0.687	Short Circuit D-C:	0.028
Short Circuit A-C:	0.039	X/R Ratio:	10.63
Stator Slots:	72	Rotor Slots:	58

Speed Torque Current Curve (First Connection, First Speed)

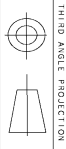


Marks:



NOTES:

1. CONDUIT BOX MAY BE PLACED WITH THE ENTRANCE DOWN, UP OR ON EITHER.
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 MINIMUM IS .002 T.I.R.



REV.	DESCRIPTION	DATE	APPROVED

MODEL	TEKAM	DATE	01/21/15
SCALE	TEKAM	DATE	01/21/15
DESIGN	HANSHAN	DATE	01/21/15
DATE	HANSHAN	DATE	01/21/15
SCALE	TEKAM	DATE	01/21/15
SCALE	0.200	REF. NO.	239C66002A
SCALE	0.200	REF. NO.	239C66002A
SCALE	0.200	REF. NO.	239C66002A
SCALE	0.200	REF. NO.	239C66002A

GENERAL ELECTRIC COMPANY
OUTLINE
 444/445 T TEFC XSD 841
 700 CU. IN. CONDUIT BOX
239C66002A
 SHEET 1 OF 1

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	159C7100AA2
Fan Cover	128D6841AA1

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

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	