

Product Information Packet

December 16, 2016

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

Model Number:	5KS445XAA218B
Catalog Number:	M9616
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG7
Outline Drawing:	239C6600YH

Accessory Connection Diagrams

Bearing Thermocouple:	None	Heater:	None
RTD:	None	Thermistor:	None
Thermostat:	None	Winding Thermocouple:	None
Bearing RTD:	None		

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imagination at work

Marks:

MODEL NUMBER:	5KS445XAA218B	Estimated Weight:	1970 Lbs
Outline Drawing:	239C6600YH	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG7	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	841
Design Code:	44BD1157A	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	445TS	Insulation Class:	H
Phases:	3	NEMA Design:	B
Poles:	4	Nominal Efficiency:	95.8 %
Output Power:	150HP 111KW	Guaranteed Efficiency:	95.4
RPM:	1780	3/4 Load Efficiency:	96.1
Voltage:	460	KVA Code:	G
Hertz:	60	Max KVAR:	42.4
Amps - FL:	169.0	Power Factor:	86.5
Service Factor:	1.15	Bearing - DE:	6318ZC3
Alt Service Factor:	--	Bearing - ODE:	6318ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

IEEE-STD-841-2009
 DE BRG 90BC03JP3, ODE BRG 90BC03JP3
 STAMP NP249A5564P051 AS BELOW:
 MODEL:5KS445XAA218B 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 200C AT 1.15SF ON SINE-WAVE PWR
 OR 200 C VT OR 230 C CT OR 200 C 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 - TS 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
 .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: 44BD1157A**Marks:**

LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	95.39	95.58	96.03	96.06	95.8	93.81	0.00
% PF	87.63	87.27	86.28	82.75	74.13	52.05	3.3
AMPS	209.94	193.55	169.44	132.47	98.84	71.88	59.15

TORQ(FL)#FT 441.8
AMPS(LR) 1086.94

TORQ(LR)%FL 196.74
PF AT START 0.33

TORQ(BD)%FL 277.41

This motor is capable of two cold or one hot start with a maximum connected load inertia of 2366 Lb-Ft Sq (99.61 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 53 seconds cold, 27 seconds hot. Rotor inertia is 63.32 Lb-Ft Sq (2.67 Kg-meter Sq).

Open Circuit A-C: 0.755

Short Circuit D-C: 0.03

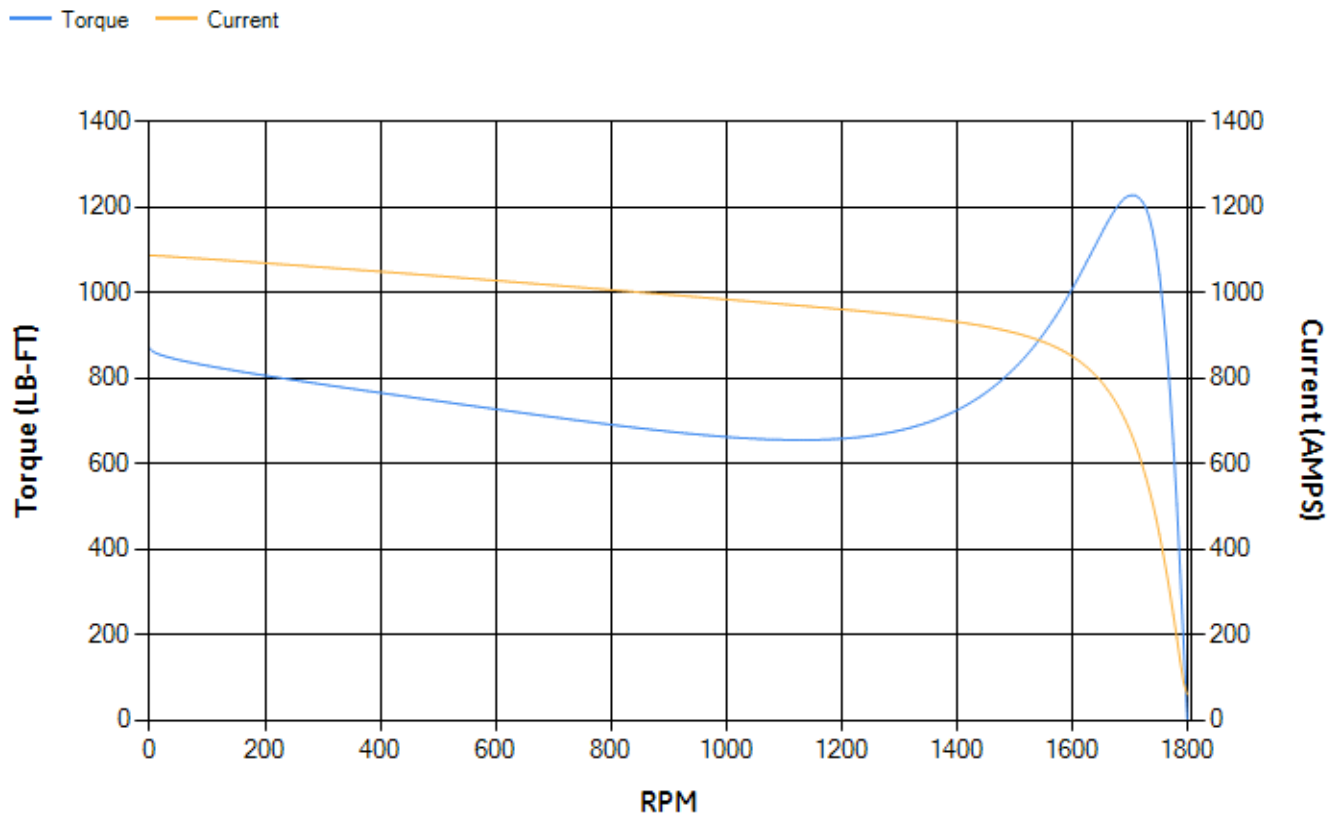
Short Circuit A-C: 0.037

X/R Ratio: 11.458

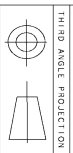
Stator Slots: 72











Rotor Slots: 58

Speed Torque Current Curve (First Connection, First Speed)



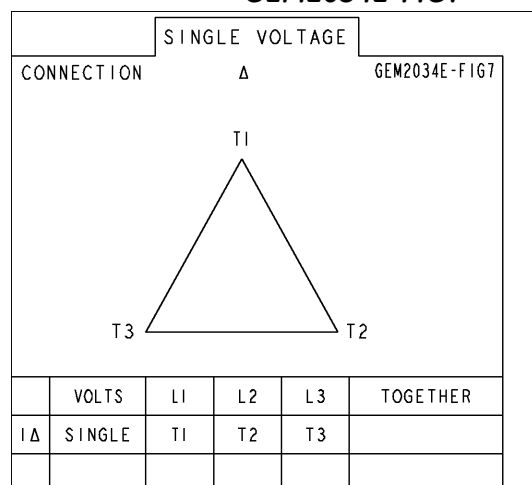
REV.	DESCRPTION	DATE	APPROVED



- | | | | |
|--|----------|----------|--|
| S. G. NATURE | DATE | | |
| TE. ASH | 06/29/15 | | |
| RETEL | 06/29/15 | | |
| TE. ASH | 06/29/15 | | |
| MOECHAN | 06/29/15 | | |
| EMOIS | 06/29/15 | | |
| VEAM | 06/29/15 | | |
| ME | | | |
| QAL. 7 | | | |
| ISSLED | TE. ASH | 06/29/15 | |
| <div>  GE Motors </div> | | | |
| <div>  GENERAL ELECTRIC COMPANY </div> | | | |
| <div>  OUTLINE </div> | | | |
| <div>  444/445 TS TEC XSD 841 </div> | | | |
| <div>  700 CU IN CONDUT BOX, .0015 SHAFT RUNOUT </div> | | | |
| <div>  5/16 BORE DRILLING </div> | | | |
| <div>  239C6600YH 0 </div> | | | |
| <div>  DISTRIBUTION: MMP </div> | | | |
| <div>  SCALE: 0.200 </div> | | | |
| <div>  REF. NO.: 239C6600AH </div> | | | |
| <div> SHEET 1 OF 1 </div> | | | |

Marks:

Connection Diagram
GEM2034E-FIG7



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	115E4355AA1	115E4355LM1
Bearing	235A2514AG01	235A2514AG01
Slinger/Inproseal	235A4575HD4	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	

