

Product Information Packet

November 7, 2016

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

Model Number:	5KS445CAG208B
Catalog Number:	E9303
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG7
Outline Drawing:	225B6200AC

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:	5KS445CAG208B	Estimated Weight:	2050 Lbs
Outline Drawing:	225B6200AC	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG7	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	XP
Design Code:	44ED1114A	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	XX
Frame:	445T	Insulation Class:	F
Phases:	3	NEMA Design:	B
Poles:	4	Nominal Efficiency:	95.8 %
Output Power:	150HP 111KW	Guaranteed Efficiency:	95.0
RPM:	1785	3/4 Load Efficiency:	95.7
Voltage:	460	KVA Code:	G
Hertz:	60	Max KVAR:	46.2
Amps - FL:	174.0	Power Factor:	84.0
Service Factor:	1.0	Bearing - DE:	6318ZC3
Alt Service Factor:	XX	Bearing - ODE:	6318ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

EXPLOSION PROOF MOTOR
TEMP CODE T3C
THERMOSTAT LEADS TB1-TB2:TRIP

Additional Information:

STAMP NP235A3574 AS FOLLOWS:
CL I GR C&D CL II GR F&G
4 POLE, T SHAFT EXTN
EXPLOSION PROOF
(3)NC THERMOSTAT LEADS TO MAIN CONDUIT BOX
920 Cu. In. CBOX

Performance Characteristics

1st Winding 1st Connection

Design: 44ED1114A

Marks:

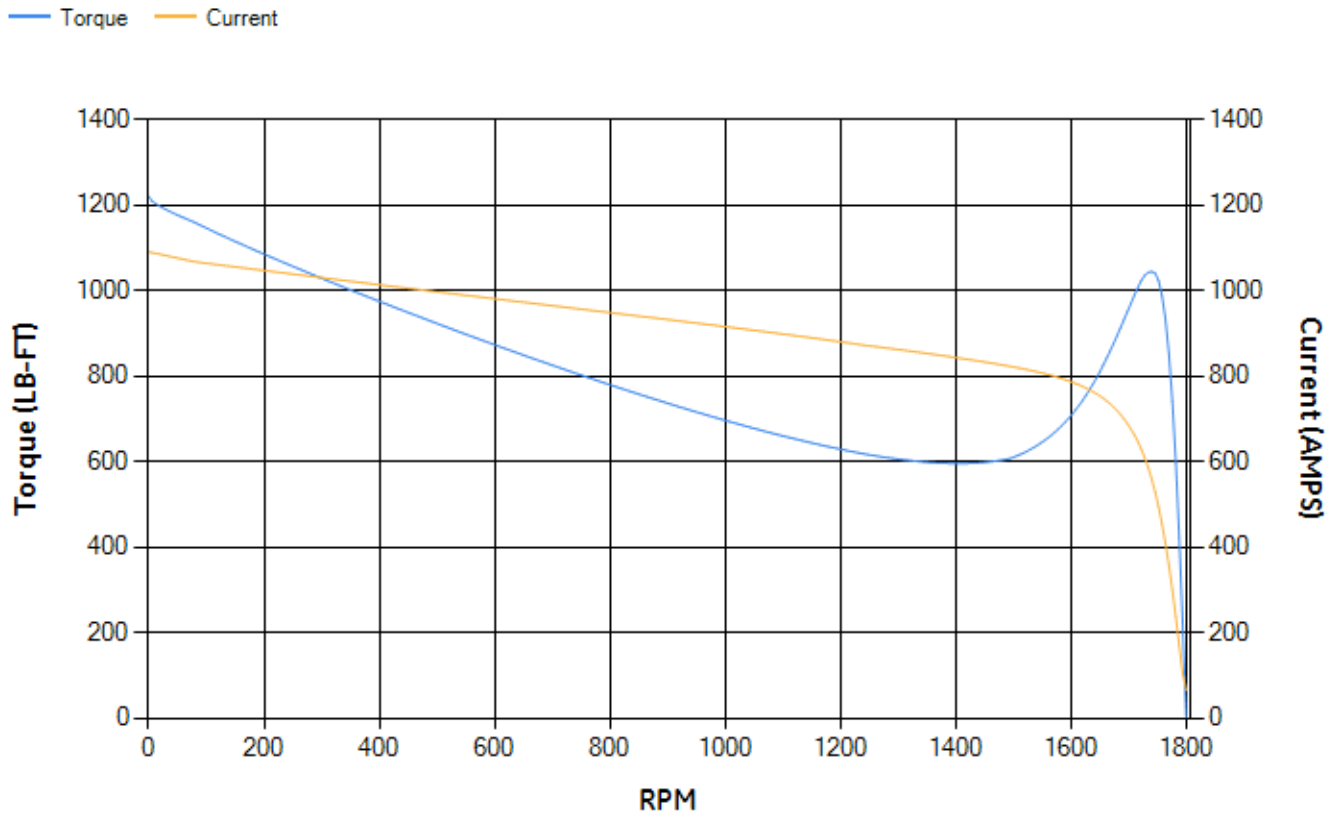
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	95.28	95.45	95.85	95.74	95.26	92.69	0.00
% PF	85.45	85.13	84.15	80.46	71.45	49.36	3.75
AMPS	215.54	198.69	174.06	136.69	103.13	76.72	64.49

TORQ(FL)#FT	440.8	TORQ(LR)%FL	276.69	TORQ(BD)%FL	236.41
AMPS(LR)	1089.81	PF AT START	0.41		

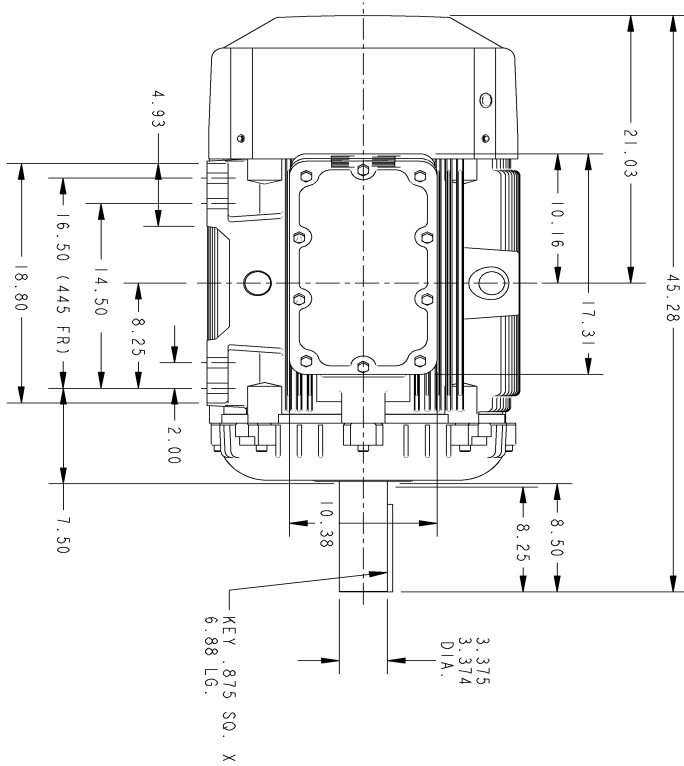
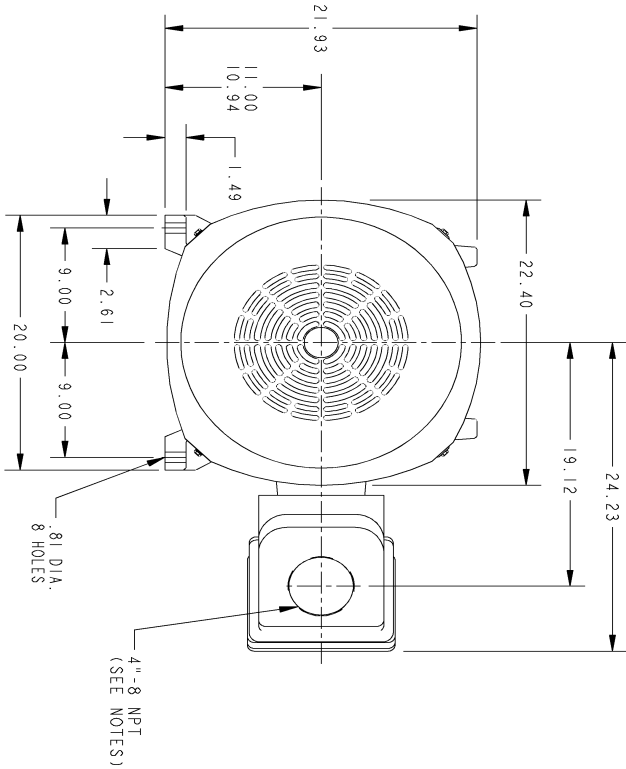
This motor is capable of two cold or one hot start with a maximum connected load inertia of 3432 Lb-Ft Sq (144.49 Kg-meter Sq)at 100% voltage, where the load torque varies with the square of the speed. Acceleration time with maximum inertia and the above load type is 30 seconds. Safe stall time at 100% voltage is 66 seconds cold, 36 seconds hot. Rotor inertia is 61 Lb-Ft Sq (2.57 Kg-meter Sq).

Open Circuit A-C:	0.92	Short Circuit D-C:	0.034
Short Circuit A-C:	0.053	X/R Ratio:	12.788
Stator Slots:	72	Rotor Slots:	58

Speed Torque Current Curve (First Connection, First Speed)



Marks:



- NOTES:
- CONDUIT BOX MAY BE PLACED WITH THE ENTRANCE ON EITHER SIDE OR UP.
 - F-1 ASM AS SHOWN.
 - F-2 ASM-COND. BOX ON OPPOSITE SIDE.

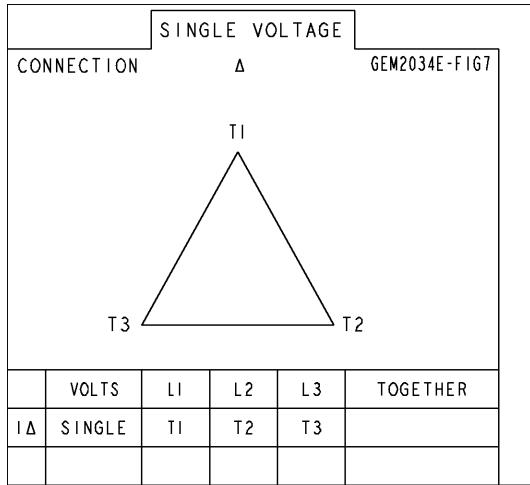
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GE PROPRIETARY INFORMATION		REV. 3	
REV.	DESCRIPTION	DATE	APPROVED
1	AN 890-114 WSE	04/06/89	
2	REDRAWN ON PROJE UPDATED	08/21/02	AB
3	ISAC # 15-0592 HAREHARAN	06/15/15	KARTHIK

UNLESS OTHERWISE SPECIFIED:		SIGNATURES		DATE	
DIMENSIONS ARE IN INCHES	DRAWN	D.E.M	02/16/83	GE Industrial Systems	
TOLERANCE ON:	CHECKED	D.E.M	02/16/83	GENERAL ELECTRIC COMPANY	
2 PL DECIMALS ± 0.02	ENGR			Fort Wayne, Indiana	
3 PL DECIMALS ± 0.005	ISSUED	D.E.M	02/17/83	OUTLINE	
ANGLES ± 0.5	APPLIED PRACTICES			444/445 T ⁺ XP (920 CU IN CBOX)	
MATERIAL:	SCALE: .12	SIZE: DRAWING	REV. 3	SHEET 1 OF 1	
				DISTRIBUTION:	

Marks:

Connection Diagram
GEM2034E-FIG7



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	128D6682CA1	128D6682CB1
Bearing	235A2514AG01	235A2514AG01
Slinger/Inproseal		

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	159C7100AA2
Fan Cover	44FC6650G001

Conduit & Accessories Box Assembly	
Part Description	Part#
Conduit Box	179B9027G01

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	