

Product Information Packet

January 12, 2017

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

Model Number:	5KS405CAG118A
Catalog Number:	E9280
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG7
Outline Drawing:	225B5700AW

Accessory Connection Diagrams			
Bearing Thermocouple:	None	Heater:	None
RTD:	None	Thermistor:	None
Thermostat:	3027JE-2	Winding Thermocouple:	None
Bearing RTD:	None		

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Marks:

MODEL NUMBER:	5KS405CAG118A	Estimated Weight:	1470 Lbs
Outline Drawing:	225B5700AW	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG7	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	XP
Design Code:	40ED0031A	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	XX
Frame:	405TS	Insulation Class:	F
Phases:	3	NEMA Design:	B
Poles:	2	Nominal Efficiency:	94.1 %
Output Power:	100HP 74KW	Guaranteed Efficiency:	93.0
RPM:	3560	3/4 Load Efficiency:	94.5
Voltage:	460	KVA Code:	G
Hertz:	60	Max KVAR:	12.7
Amps - FL:	108.0	Power Factor:	92.5
Service Factor:	1.0	Bearing - DE:	6314ZC3
Alt Service Factor:	XX	Bearing - ODE:	6314ZC3

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
2 POLE, TS SHAFT EXTN
(3)NC THERMOSTAT LEADS TO MAIN CONDUIT BOX
920 Cu. In. CBOX

Performance Characteristics

1st Winding 1st Connection

Design: 40ED0031A

Marks:

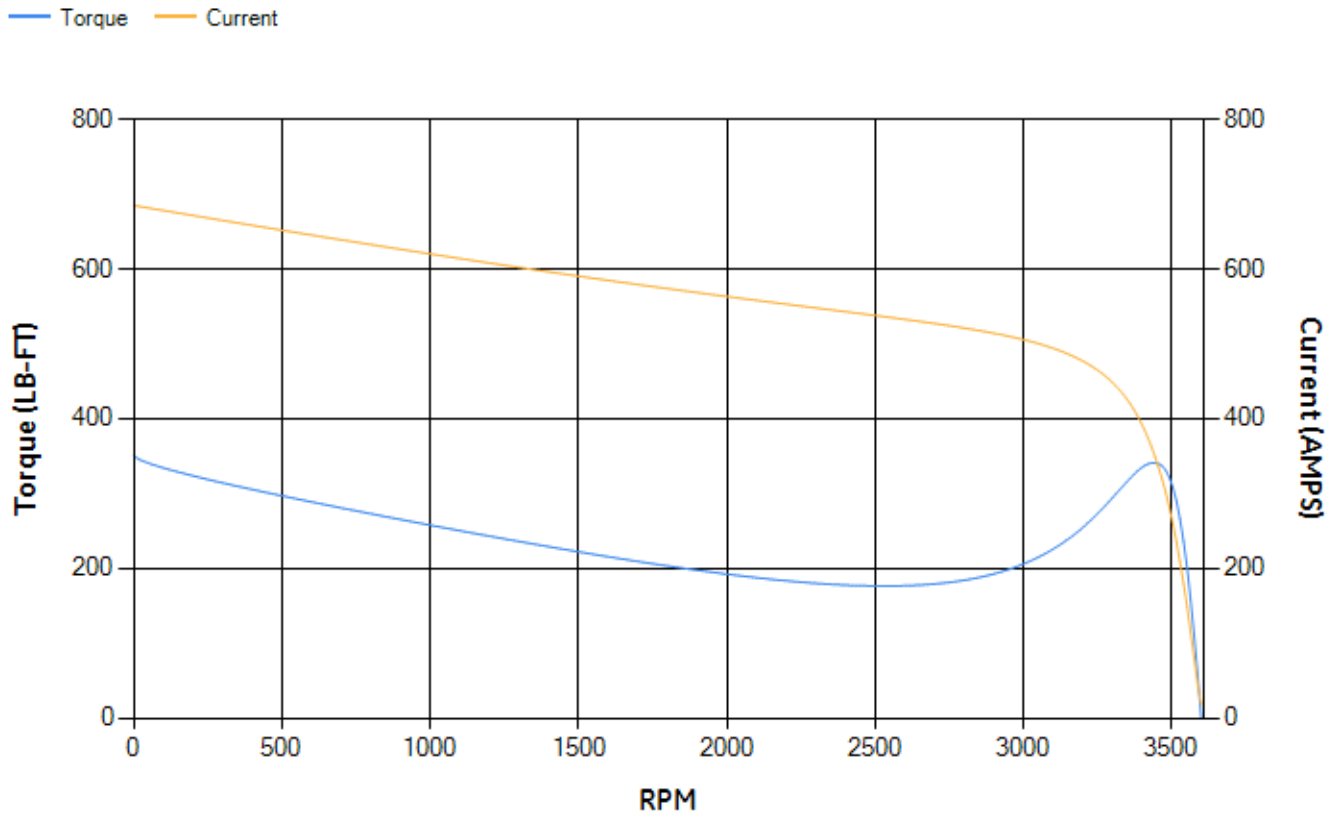
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	93.68	93.96	94.49	94.54	94.07	91.11	0.00
% PF	91.95	92.34	92.7	92.49	90.22	79.5	11.35
AMPS	135.81	124.06	106.86	80.28	55.14	32.3	17.64

TORQ(FL)#FT	147.39	TORQ(LR)%FL	238.6	TORQ(BD)%FL	230.82
AMPS(LR)	684.99	PF AT START	0.39		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 180 Lb-Ft Sq (7.58 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 12 seconds. Safe stall time at 100% voltage is 31 seconds cold, 14 seconds hot. Rotor inertia is 16.2 Lb-Ft Sq (0.68 Kg-meter Sq).

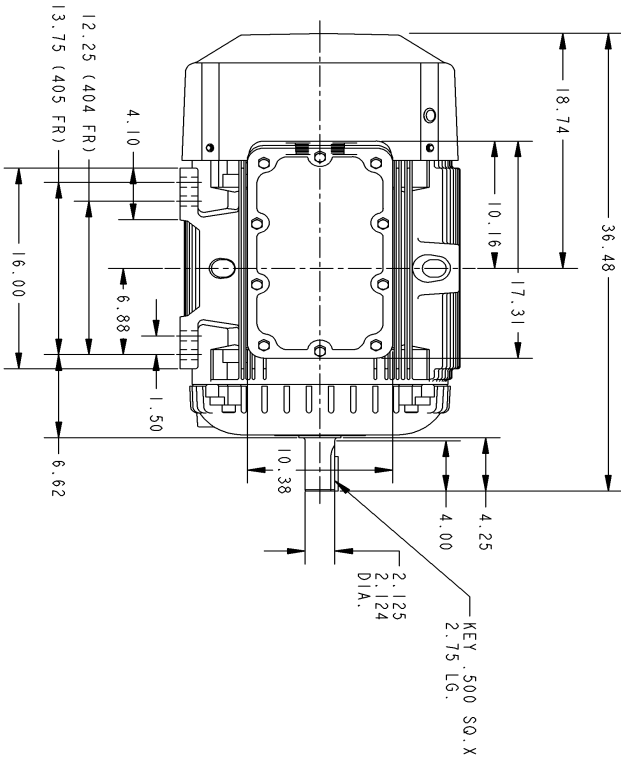
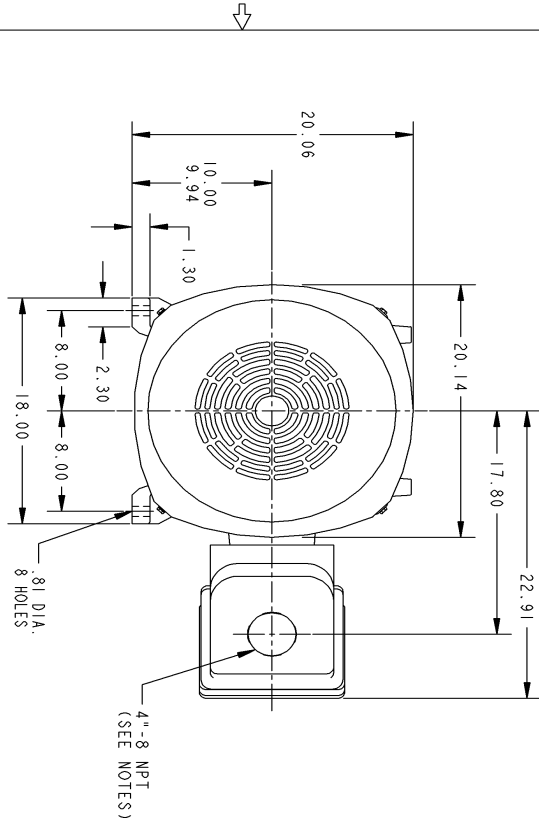
Open Circuit A-C:	1.569	Short Circuit D-C:	0.025
Short Circuit A-C:	0.041	X/R Ratio:	9.402
Stator Slots:	60	Rotor Slots:	50

Speed Torque Current Curve (First Connection, First Speed)



NAME: PT-296 OBJECT: 225B5700AW DATE: 03-Feb-03 20:28:48

Marks:



THIRD ANGLE PROJECTION



NOTES:

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

SIZE B DWG NO 225B5700AW SH 1 REV 0

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

UNLESS OTHERWISE SPECIFIED		SIGNATURES		DATE
DIMENSIONS ARE IN INCHES		DRAWN	MANOHAR	02/03/03
TOLERANCES UNLESS NOTED:		CHECKED	GV KADAM	02/03/03
2 PL DECIMALS ± .005		ENGINEER		
3 PL DECIMALS ± .001		ISSUED	GV KADAM	02/03/03
FRACTIONS ± 1/32				
ANGLES ± 1'				
MATERIALS:				
APPLIED PRACTICES:				

GE Motors
Fort Wayne, Indiana

OUTLINE

404/405 "TS" XP (920 CU. IN. BOX)

SIZE FSCM NO B DWG NO 225B5700AW SCALE .12 SHEET 1 OF 1

DISTR TO

Marks:

Connection Diagram
GEM2034E-FIG7



Thermostat Connection
3027JE-2

FIG. 2
THERMOSTAT CONN.

