

Product Information Packet

January 12, 2017

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

Model Number:	5KS324CAG308A
Catalog Number:	E9294
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG1
Outline Drawing:	225B4700AA

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:	5KS324CAG308A	Estimated Weight:	730 Lbs
Outline Drawing:	225B4700AA	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG1	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	XP
Design Code:	32ED3006A	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	XX
Frame:	324T	Insulation Class:	F
Phases:	3	NEMA Design:	A
Poles:	6	Nominal Efficiency:	93.0 %
Output Power:	25HP 18.5KW	Guaranteed Efficiency:	91.7
RPM:	1180	3/4 Load Efficiency:	93.5
Voltage:	460	KVA Code:	H
Hertz:	60	Max KVAR:	7.2
Amps - FL:	30.9	Power Factor:	81.5
Service Factor:	1.0	Bearing - DE:	6312ZC3
Alt Service Factor:	XX	Bearing - ODE:	6312ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

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

Additional Information:

STAMP NP249A5571AD AS FOLLOWS:
CL I GR C&D CL II GR F&G
6 POLE, T SHAFT EXTN
(3)NC THERMOSTAT LEADS TO MAIN CONDUIT BOX
250 Cu. In. CBOX

Performance Characteristics

1st Winding 1st Connection

Design: 32ED3006A

Marks:

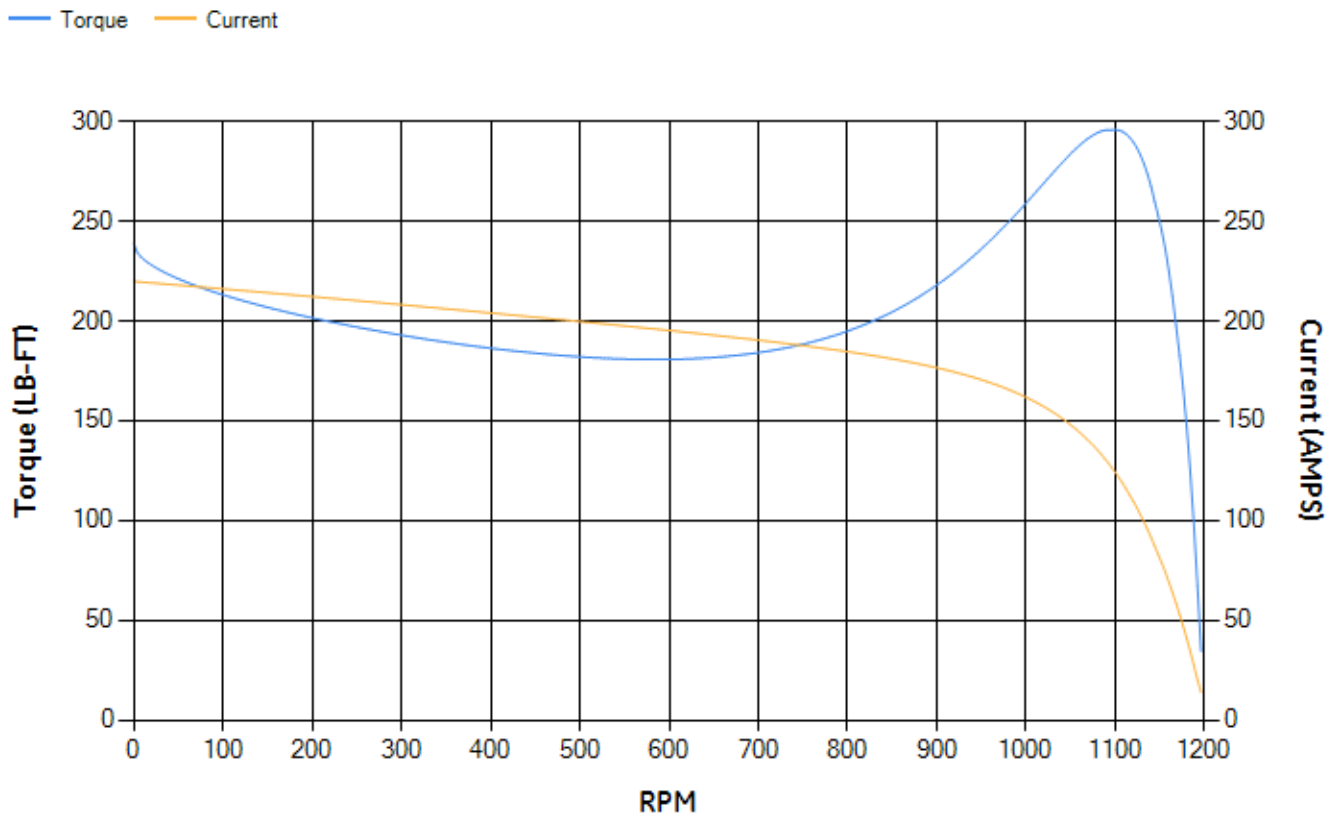
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	92.16	92.57	93.27	93.5	93.09	89.84	0.00
% PF	82.22	82.23	81.71	78.82	71.04	51.04	5.63
AMPS	38.6	35.35	30.7	23.81	17.69	12.76	10.08

TORQ(FL)#FT	111.02	TORQ(LR)%FL	215.29	TORQ(BD)%FL	265.17
AMPS(LR)	219.78	PF AT START	0.33		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 1978 Lb-Ft Sq (83.27 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 45 seconds. Safe stall time at 100% voltage is 99 seconds cold, 72 seconds hot. Rotor inertia is 15.03 Lb-Ft Sq (0.63 Kg-meter Sq).

Open Circuit A-C:	0.556	Short Circuit D-C:	0.016
Short Circuit A-C:	0.024	X/R Ratio:	5.981
Stator Slots:	54	Rotor Slots:	42

Speed Torque Current Curve (First Connection, First Speed)

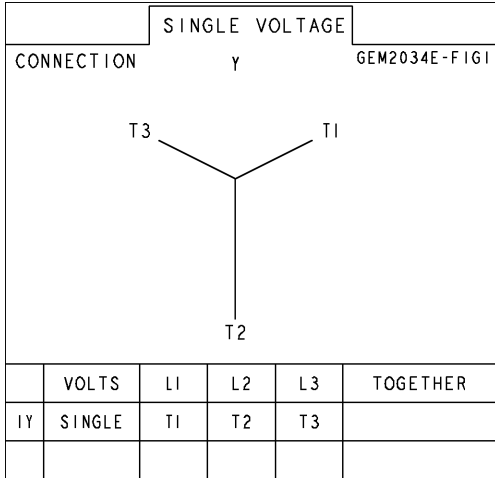


Marks:

SHEET 1 OF 1 225B4700AA 324/326 FR TFFC, 250 CU. IN. CONDUIT BOX OUTLINE (XP) Fort Wayne, Indiana GE Motors METRIC EQUIV. 225B4700AD	SCALE 1:15 CMO NO. F320-225B4700AA SIZE FRM NO. 04/12/82 13880 04/06/82 DRAWN MT DUFFS CHECKED ENGRG 2 PL. DESIGNED 1 PL. DESIGNED 13880 04/12/82 13880 04/12/82 13880	APPLICABLE REVISIONS: REVISIONS AND IN CHARGE DATE SIGNATURES	THRU ANGLE PROJECTION CONDUIT BOX MAY BE PLACED WITH THE ENTRANCE DOWN, UP, OR ON EITHER SIDE F-1 ASM HAS CONDUIT BOX ON OPPOSITE SIDE F-2 ASM HAS CONDUIT BOX ON OPPOSITE SIDE											
REVISIONS <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>REV</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>09/21/83</td> <td>ADDED METRIC EQUIVALENT TM</td> </tr> <tr> <td>2</td> <td>10/17/91</td> <td>910-963 CLF</td> </tr> </tbody> </table>		REV	DATE	DESCRIPTION	1	09/21/83	ADDED METRIC EQUIVALENT TM	2	10/17/91	910-963 CLF	225B4700AA 1 REV 2			
REV	DATE	DESCRIPTION												
1	09/21/83	ADDED METRIC EQUIVALENT TM												
2	10/17/91	910-963 CLF												

Marks:

Connection Diagram
GEM2034E-FIG1



Thermostat Connection
3027JE-2

FIG. 2
THERMOSTAT CONN.

