

Product Information Packet

November 8, 2016

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

Model Number:	5KS256XAA408D2
Catalog Number:	M9429
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG7
Outline Drawing:	4002B5825PAP5311

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:	5KS256XAA408D2	Estimated Weight:	350 Lbs
Outline Drawing:	4002B5825PAP5311	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG7	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	841
Design Code:	25BD4020A	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	256T	Insulation Class:	H
Phases:	3	NEMA Design:	B
Poles:	8	Nominal Efficiency:	87.5 %
Output Power:	7.5HP 5.6KW	Guaranteed Efficiency:	86.5
RPM:	875	3/4 Load Efficiency:	89.2
Voltage:	460	KVA Code:	H
Hertz:	60	Max KVAR:	4.3
Amps - FL:	11.1	Power Factor:	72.0
Service Factor:	1.15	Bearing - DE:	6309ZC3
Alt Service Factor:	--	Bearing - ODE:	6309ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

IEEE-STD-841-2009
 DE BRG 45BC03JP30 ODE BRG 45BC03JP30
 STAMP NP249A5564P051 AS BELOW:
 MODEL:5KS256XAA408D2 S/N: XXX
 CSA CERTIFIED CSA09.2216219 FOR EX NA IIC 200C 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 200 C CT OR 200 C CHP PWM CONTROL
 ALTERNATE RATING FOR PWM CONTROL 1.0SF 40C AMB
 VT 0-60 HZ, CT 3-60 HZ, CHP 60-90 HZ.

Additional Information:

8P - T EXTN
 STANDARD FLOOR MOUNT
 C/BOX 137 CU IN-1.25 NPT
 F1 CONDUIT BOX MOUNTING
 PAINTED FRAME ID & SHAFT,
 FAN COVER INSIDE & ODE E/S OUTSIDE
 ROUTINE AND 5 POINT VIBRATION TESTS INCL IN C/BOX
 INPRO SEAL BOTH ENDS
 GROUND SCREW ON FRAME
 SHAFT RUNOUT LIMIT .001" TIR
 COPPER WASHER UNDER HEADS OF BEARING CAP BOLTS
 APPLY TITE-SEAL (A50CD427A) ON BEARING CAP SCREWS, RABBETS,
 AND PLUG THREADS
 OIL RESISTANT SLEEVING ON LEADS





Performance Characteristics

1st Winding 1st Connection

Design: 25BD4020A**Marks:**

LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	86.83	87.55	88.63	89.25	88.7	83.83	0.00
% PF	75.46	74.32	71.84	64.86	52.56	32.52	4.62
AMPS	13.39	12.41	11.03	9.09	7.53	6.44	5.93

TORQ(FL)#FT 44.98
AMPS(LR) 54.41

TORQ(LR)%FL 154.61
PF AT START 0.34

TORQ(BD)%FL 242.97

This motor is capable of two cold or one hot start with a maximum connected load inertia of 1233 Lb-Ft Sq (51.91 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 59 seconds. Safe stall time at 100% voltage is 142 seconds cold, 86 seconds hot. Rotor inertia is 2.11 Lb-Ft Sq (0.09 Kg-meter Sq).

Open Circuit A-C: 0.166

Short Circuit D-C: 0.012

Short Circuit A-C: 0.017

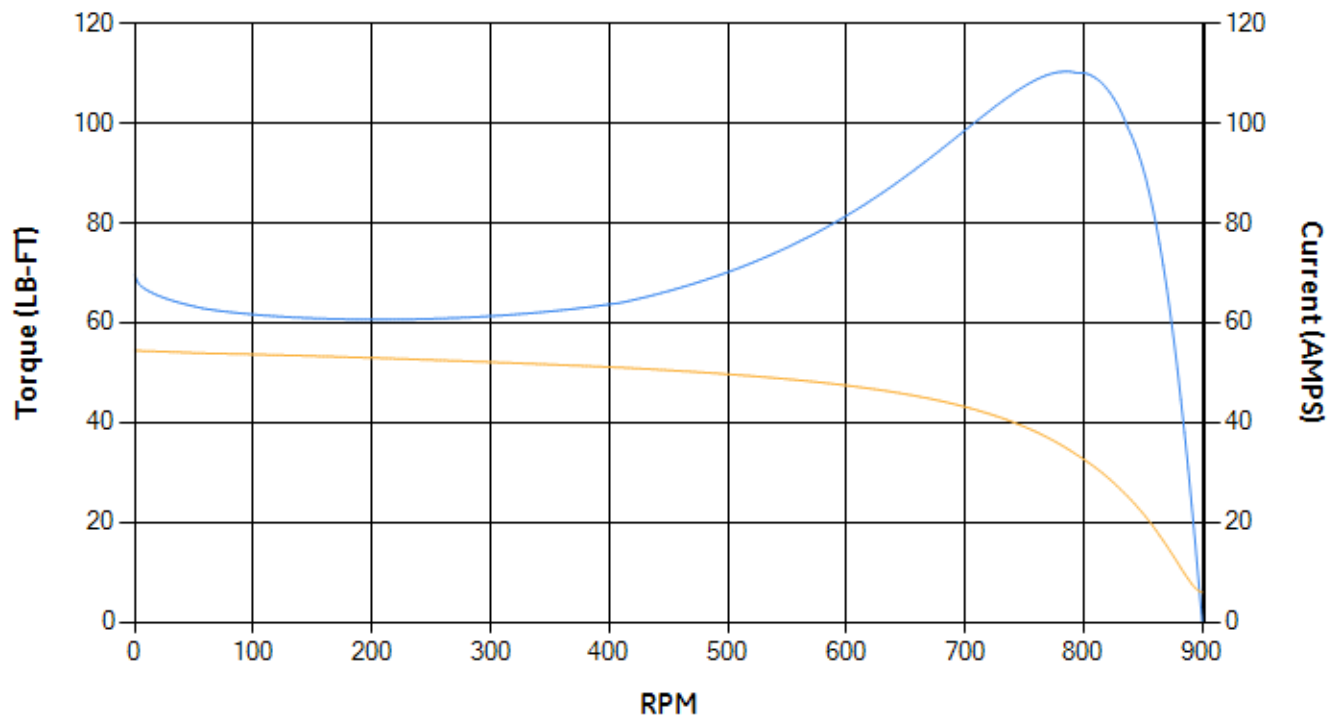
X/R Ratio: 4.461

Stator Slots: 54

Rotor Slots: 70

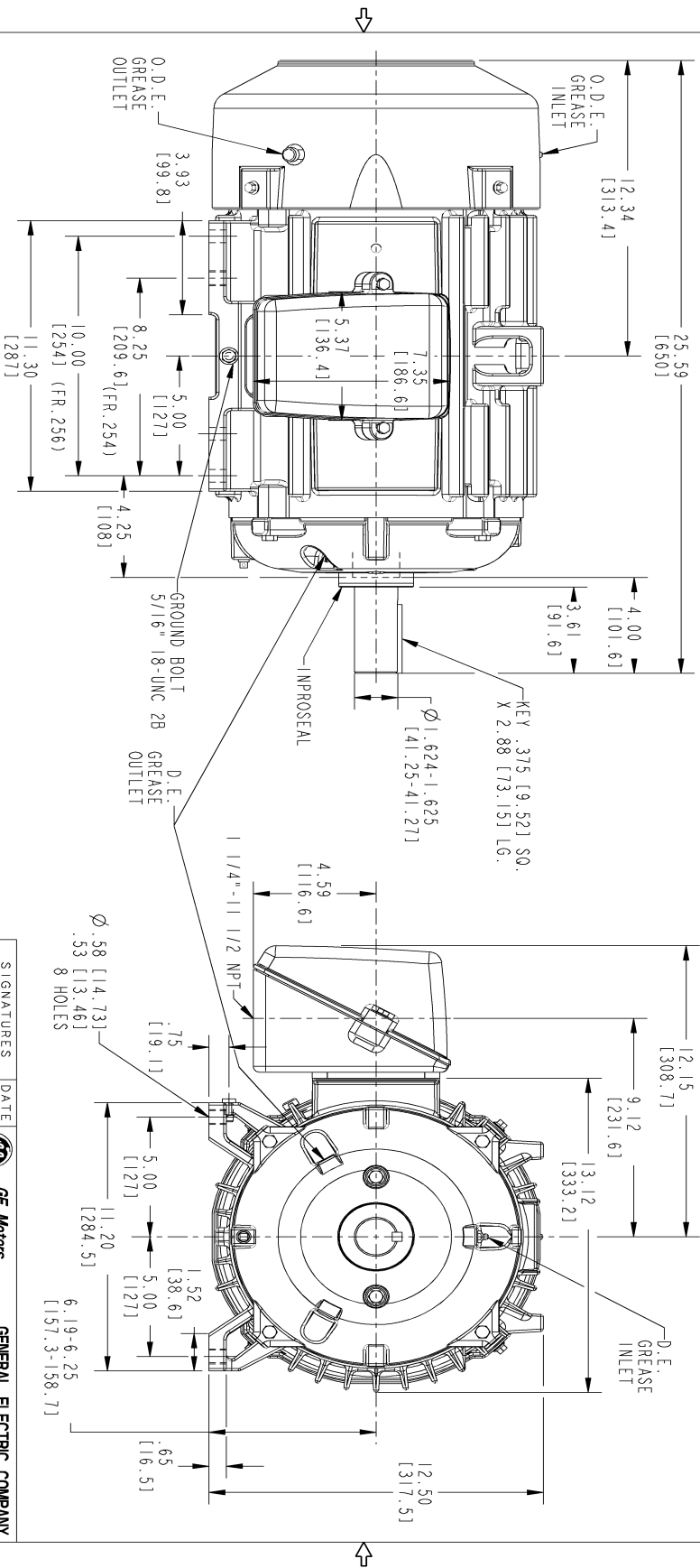
Speed Torque Current Curve (First Connection, First Speed)

— Torque — Current



Marks:

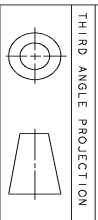
NOTE 1: CONDUIT BOX MAY BE ASSEMBLED WITH ENTRANCE UP, DOWN OR TO EITHER SIDE.
NOTE 2: F1 ASSEMBLY AS SHOWN. F2 ASSEMBLY CONDUIT BOX ON OPPOSITE SIDE FROM SHOWN LOCATION.
NOTE 3: SHAFT RUNOUT WILL NOT EXCEED .001 T. I.R.




SIZE DRAWING NO. B

REV SHEET 4002B5825PAP5311 0

REVISIONS		
REV.	DESCRIPTION	DATE

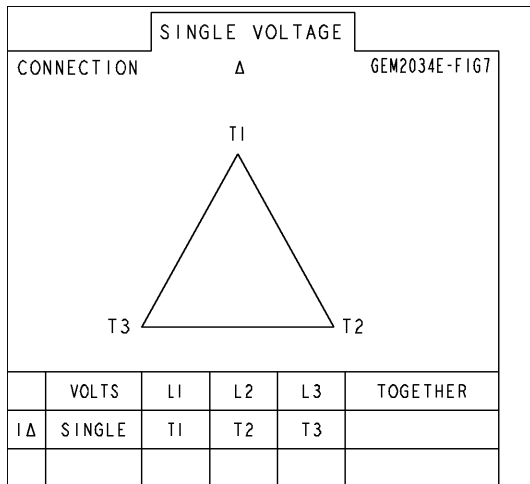


THIRD ANGLE PROJECTION

SIGNATURES		DATE	<div><div>GE Motors</div></div>		GENERAL ELECTRIC COMPANY
MODEL	TEJASW	05/18/15	<div><div>TITLE</div><div>INDUCTION MOTOR OUTLINE</div><div>STANDARD CONSTRUCTION FOR IEEE-841 SPEC.</div><div>FMR, FR250T TFC XSD ULTRA</div></div>		
DETAIL	TEJASW	05/18/15			
CHECKED	MARTIN	05/18/15			
ENG	SPRANTH	05/18/15			
QUALITY	TEJASW	05/18/15			
ISSUED	TEJASW	05/18/15	<div><div>SIZE DRAWING</div><div>B</div><div>4002B5825PAP5311</div><div>0</div></div>		
SCALE: 0.250					
REF. No. 4002B5825PAP301					
SHEET 1 of 1					

Marks:

Connection Diagram GEM2034E-FIG7



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	4004D5283PB1	4004D5283SE1
Bearing	235A2607AA01	235A2607AA01
Slinger/Inproseal	4002B5914AF4	4002B5914AG4

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	159C6800G01
Fan Cover	4003C5788PA1

Conduit & Accessories Box Assembly	
Part Description	Part#
Conduit Box	4002B5728PA-G04

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

