

Product Information Packet

November 8, 2016

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

Model Number:	5KS254XAA304D2
Catalog Number:	M9498
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG1
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:	5KS254XAA304D2	Estimated Weight:	315 Lbs
Outline Drawing:	4002B5825PAP5311	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG1	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	841
Design Code:	25BD3062B	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	254T	Insulation Class:	H
Phases:	3	NEMA Design:	B
Poles:	6	Nominal Efficiency:	91 %
Output Power:	7.5HP 5.6KW	Guaranteed Efficiency:	90.2
RPM:	1175	3/4 Load Efficiency:	91.5
Voltage:	575	KVA Code:	H
Hertz:	60	Max KVAR:	3.0
Amps - FL:	7.8	Power Factor:	79.5
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:5KS254XAA304D2 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:

6P - 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: 25BD3062B**Marks:**

LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	89.93	90.42	91.21	91.53	90.99	86.87	0.00
% PF	82.01	81.3	79.61	74.33	63.46	41.77	5.33
AMPS	9.52	8.79	7.73	6.19	4.86	3.87	3.39

TORQ(FL)#FT 33.53
AMPS(LR) 46.86

TORQ(LR)%FL 184.7
PF AT START 0.4

TORQ(BD)%FL 265.26

This motor is capable of two cold or one hot start with a maximum connected load inertia of 900 Lb-Ft Sq (37.89 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 62 seconds. Safe stall time at 100% voltage is 137 seconds cold, 103 seconds hot. Rotor inertia is 1.9 Lb-Ft Sq (0.08 Kg-meter Sq).

Open Circuit A-C: 0.273

Short Circuit D-C: 0.012

Short Circuit A-C: 0.017

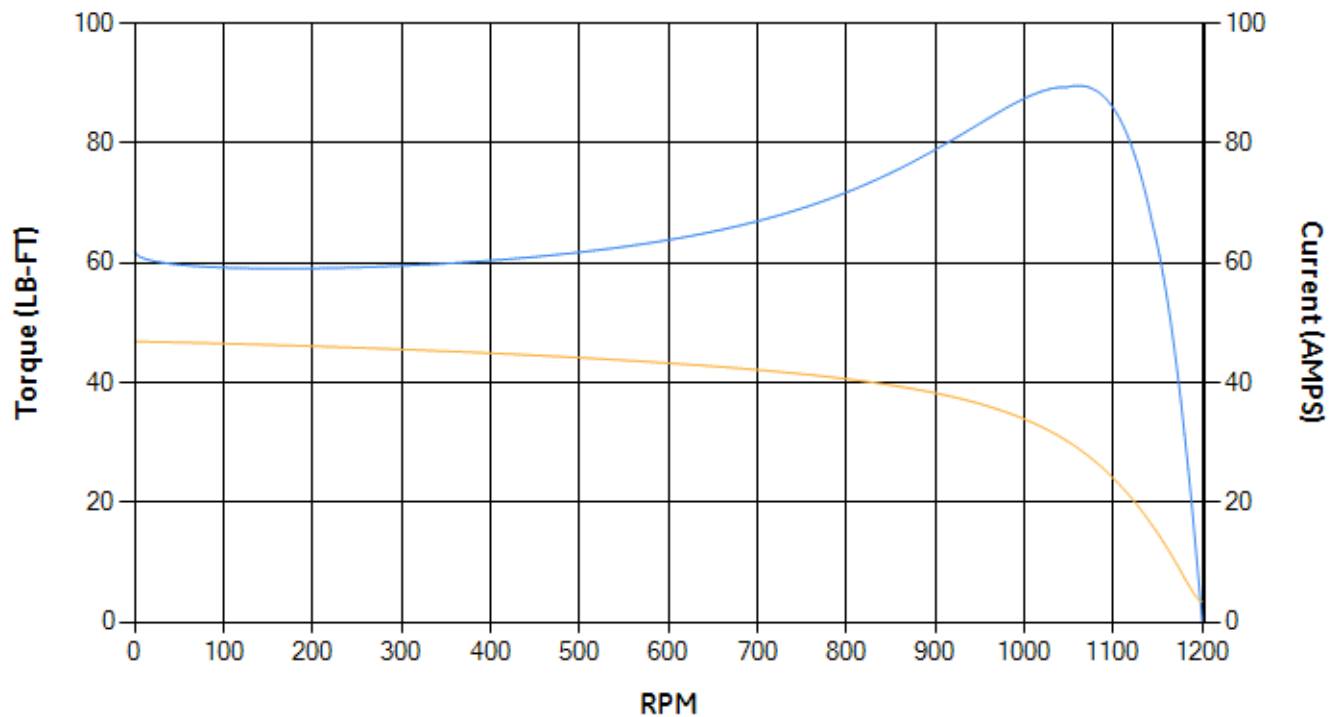
X/R Ratio: 4.404

Stator Slots: 54

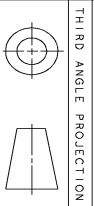
Rotor Slots: 42

Speed Torque Current Curve (First Connection, First Speed)

— Torque — Current



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.

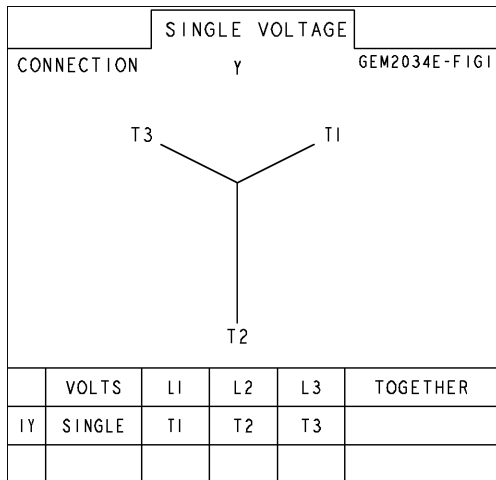


S I G N A T U R E S		DATE	
TEJASWII		05/18/15	
DETAIL		TEJASWII 05/18/15	
CHECKED		MARHILK 05/18/15	
EXCISE		SARANATHI 05/18/15	
Q U A L I T Y			
ISSUED		TEJASWII 05/18/15	
S O L I D M O D E L : 4002B5825PAP531I			
 GE Motors			
GENERAL ELECTRIC COMPANY			
TITLE			
INDUCTION MOTOR OUTLINE			
STANDARD CONSTRUCTION FOR IEEE-841 SPEC.			
FMR, FR250T TEFC XSD ULTRA			
SIZE		REV	
DRAIN NO			
B		4002B5825PAP531I 0	
SCALE: 0.250		REF. No: 4002B5825PAP530I	
SHEET 1 of 1			

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED

Marks:

Connection Diagram
GEM2034E-FIG1



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	

