



GE INDUSTRIAL MOTORS
a **WOLONG** company

Product Technical Information

June 24, 2020

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

Model Number:	5KS254XAA408D2
Catalog Number:	M9425
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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Marks:

MODEL NUMBER:	5KS254XAA408D2	Estimated Weight:	315 Lbs
Outline Drawing:	4002B5825PAP5311	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG7	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	841
Design Code:	25BD4028A	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	254T	Insulation Class:	H
Phases:	3	NEMA Design:	B
Poles:	8	Nominal Efficiency:	86.5 %
Output Power:	5HP 3.7KW	Guaranteed Efficiency:	85.5 %
RPM:	880	3/4 Load Efficiency:	87.9 %
Voltage:	460	KVA Code:	J
Hertz:	60	Max KVAR:	3.4
Amps - FL:	7.9	Power Factor:	68.5
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:5KS254XAA408D2 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 215C 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: 25BD4028A

Marks:

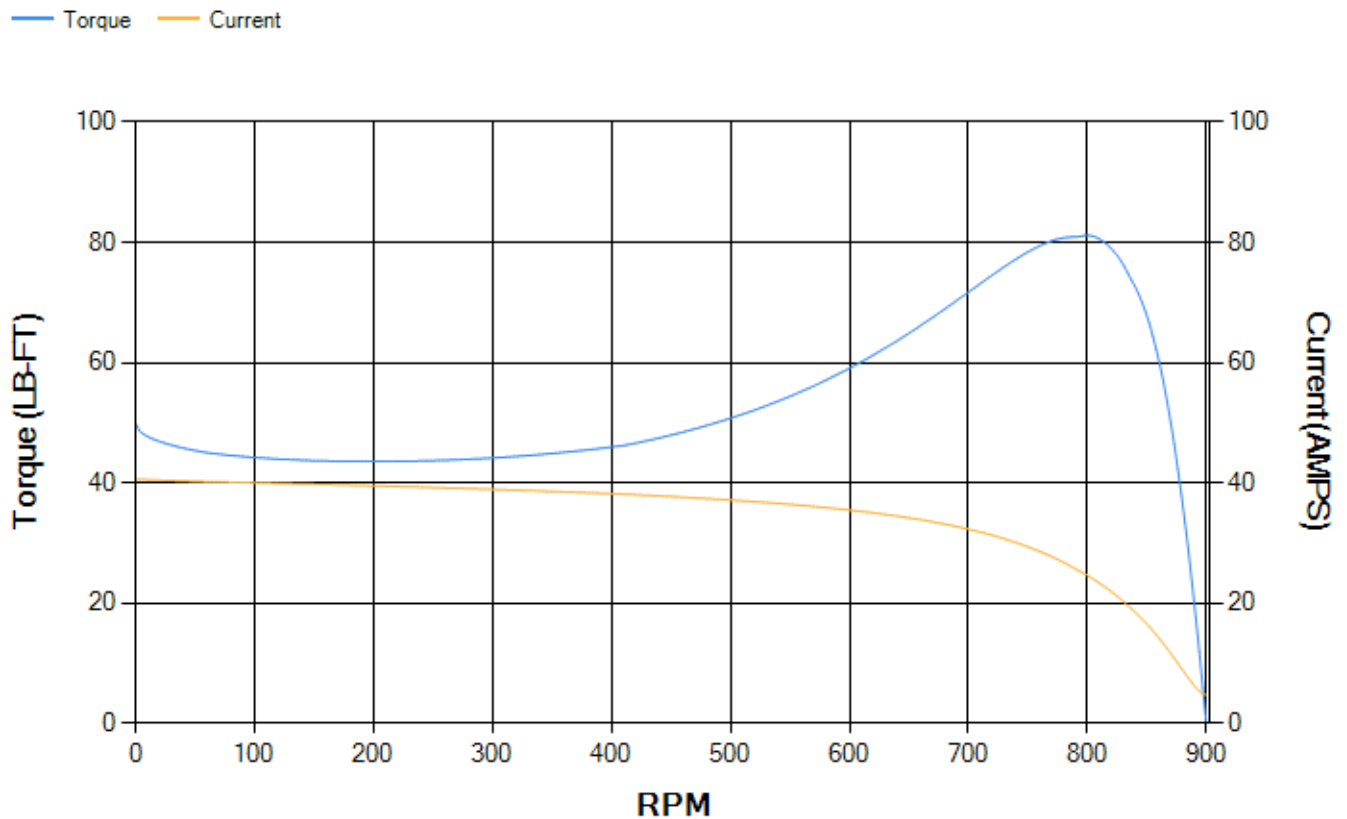
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	86.6	87.12	87.89	87.94	86.56	79.93	0.00
% PF	73.32	71.72	68.55	60.57	47.91	29.3	5.25
AMPS	9.21	8.61	7.77	6.59	5.64	4.99	4.69

TORQ(FL)#FT	29.86	TORQ(LR)%FL	167.01	TORQ(BD)%FL	270.21
AMPS(LR)	40.56	PF AT START	0.36		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 874 Lb-Ft Sq (36.8 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 57 seconds. Safe stall time at 100% voltage is 127 seconds cold, 82 seconds hot. Rotor inertia is 1.57 Lb-Ft Sq (0.07 Kg-meter Sq).

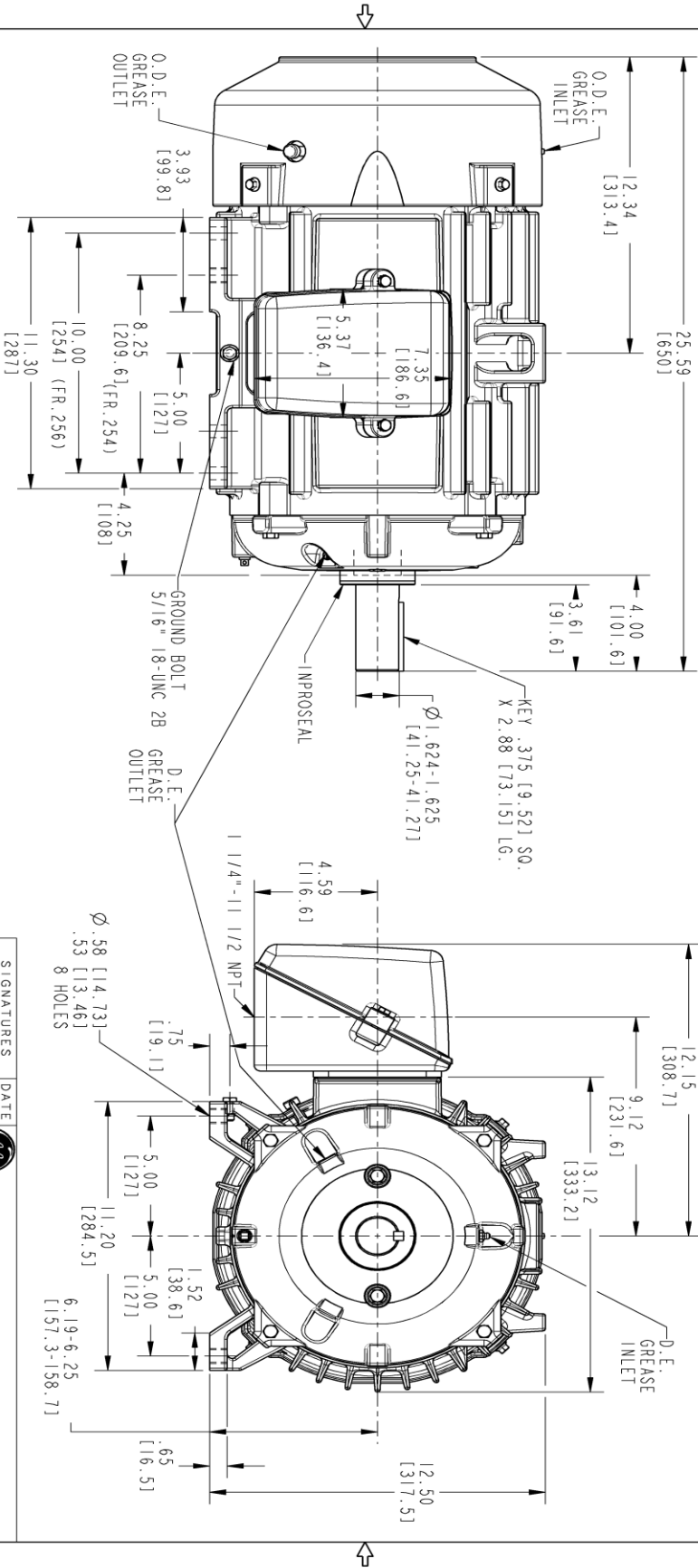
Open Circuit A-C:	0.166	Short Circuit D-C:	0.01
Short Circuit A-C:	0.018	X/R Ratio:	3.9
Stator Slots:	54	Rotor Slots:	70

Speed Torque Current Curve (First Connection, First Speed)



Marks:

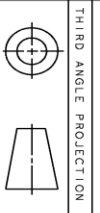
NOTE 1: CONDUIT BOX MAY BE ASSEMBLED WITH ENTRANCE UP, DOWN OR TO EITHER SIDE.
 NOTE 2: F1 ASSEMBLY AS SHOWN. F2 ASSEMBLY CONDUIT BOX ON OPPOSITE SIDE FROM SHOWN LOCATION.
 NOTE 3: SHAFT RUNOUT WILL NOT EXCEED .001 T. I. R.



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REV.	DESCRIPTION	DATE	APPROVED
1	ISAC# 18-0869	11/05/18	PRASHANTH

SIZE	DRAWING NO.	REV	SHEET
B	4002B5825PAP5311	001	1



THIRD ANGLE PROJECTION

SIGNATURES	DATE	TITLE
TEJASNI	05/18/15	INDUCTION MOTOR OUTLINE
TEJASNI	05/18/15	STANDARD CONSTRUCTION FOR IEEE-941 SPEC.
KARTHIK	05/18/15	FMR FR250T TERC X8D ULTRA
SRIVANTHI	05/18/15	
TEJASNI	05/18/15	

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SCALE: 0.250 REF. No.: 4002B5825PAP301

4002B5825PAP5311

Marks:

Connection Diagram
GEM2034E-FIG7



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	4004D5283PB1	4004D5283SE1
Bearing	235A2507EB01	235A2507EB01
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	

