



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:	5KS215XAA304D2
Catalog Number:	M9494
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG1
Outline Drawing:	4002B5821PAP5311

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:	5KS215XAA304D2	Estimated Weight:	220 Lbs
Outline Drawing:	4002B5821PAP5311	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG1	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	841
Design Code:	21BD3000B	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	215T	Insulation Class:	H
Phases:	3	NEMA Design:	B
Poles:	6	Nominal Efficiency:	89.5 %
Output Power:	5HP 3.7KW	Guaranteed Efficiency:	88.5 %
RPM:	1170	3/4 Load Efficiency:	90.5 %
Voltage:	575	KVA Code:	J
Hertz:	60	Max KVAR:	2.2
Amps - FL:	5.5	Power Factor:	76.5
Service Factor:	1.15	Bearing - DE:	6208ZC3
Alt Service Factor:	--	Bearing - ODE:	6208ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

IEEE-STD-841-2009
 DE BRG 40BC02JP30 ODE BRG 40BC02JP30
 STAMP NP249A5564P051 AS BELOW:
 MODEL:5KS215XAA304D2 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 55 CU IN-1.00 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: 21BD300B

Marks:

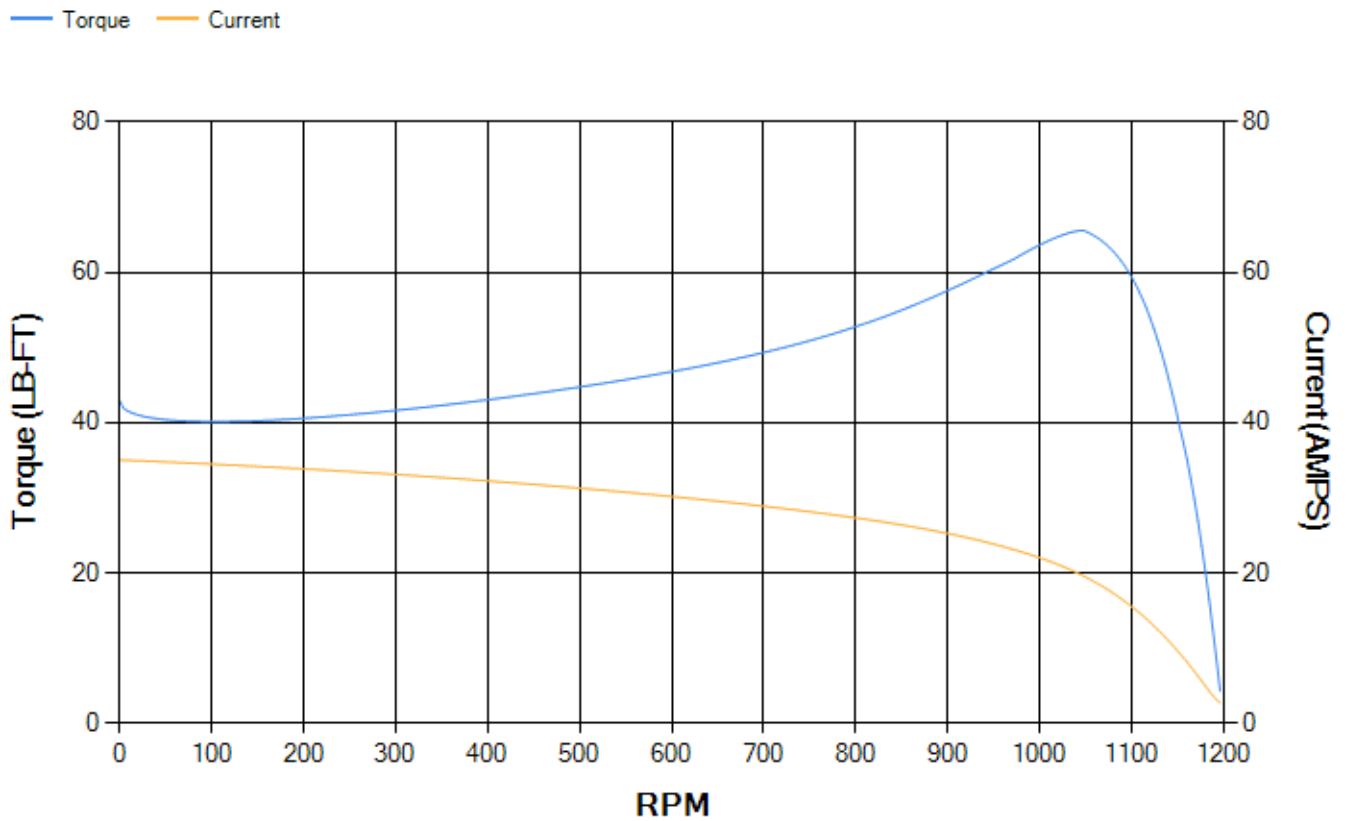
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	88.1	88.79	89.84	90.48	90.15	86.04	0.00
% PF	79.05	78.36	76.62	71.06	59.88	38.7	5.07
AMPS	6.72	6.19	5.44	4.37	3.47	2.81	2.5

TORQ(FL)#FT	22.4	TORQ(LR)%FL	191.85	TORQ(BD)%FL	289.97
AMPS(LR)	35.04	PF AT START	0.46		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 541 Lb-Ft Sq (22.78 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 51 seconds. Safe stall time at 100% voltage is 114 seconds cold, 82 seconds hot. Rotor inertia is 0.9 Lb-Ft Sq (0.04 Kg-meter Sq).

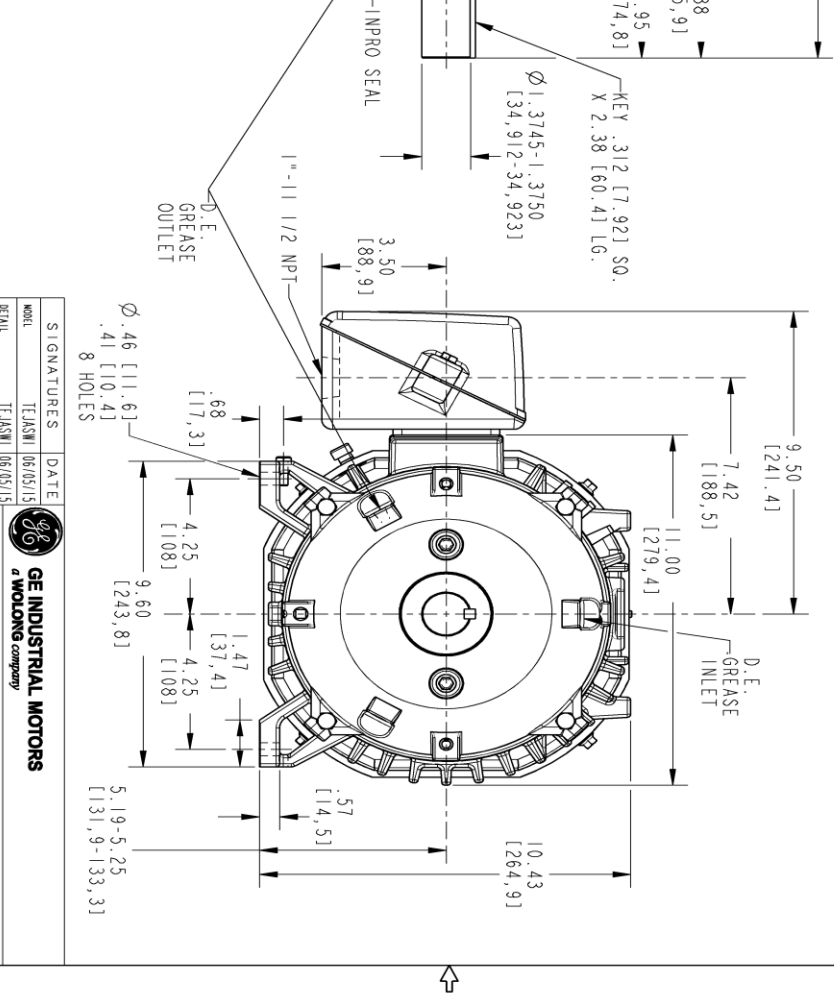
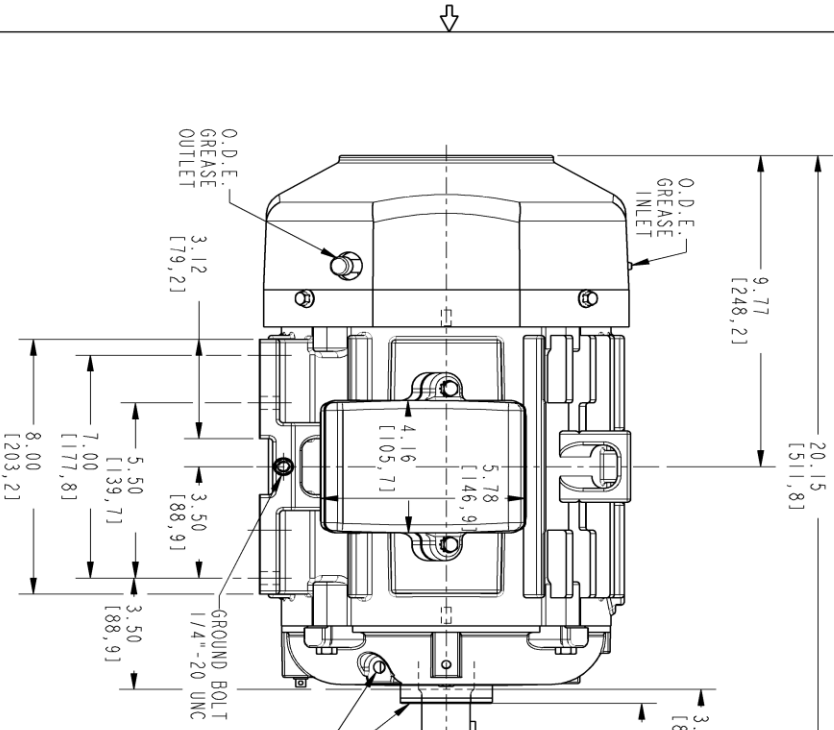
Open Circuit A-C:	0.237	Short Circuit D-C:	0.009
Short Circuit A-C:	0.014	X/R Ratio:	3.578
Stator Slots:	36	Rotor Slots:	44

Speed Torque Current Curve (First Connection, First Speed)



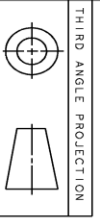
Marks:

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.
 NOTE 4: ALL DIMENSIONS ARE IN INCHES. BRACKETED DIMENSIONS ARE IN METRIC (MILLIMETERS).



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REV.	DESCRIPTION	DATE	APPROVED
1	AS PER ISAAC #17-0343	04/20/2017	DEEPMANI
2	REMOVED CENTER OF GRAVITY	04/27/2017	DEEPMANI
3	ISAAC# 18-0869	11/01/2018	PRAASHANTH



SIGNATURES	DATE
MOEL TEJASNI	06/05/19
DETAIL TEJASNI	06/05/19
CHECKED VENKAT	06/05/19
ENG'G VENKAT	06/05/19
QC	
QUALITY	
ISSUED	TEJASNI 06/05/19
SOLID MODEL: 4002B5821PAP5311	SCALE: 0.300 REF. No.: 4002B5821PAP5301

GE INDUSTRIAL MOTORS
 a WOLONG company
INDUCTION MOTOR OUTLINE
 STANDARD CONSTRUCTION FOR IEEE-941 SPEC
 FME: R219/216 T TERC
4002B5821PAP5311
 SHEET 1 OF 1

Marks:

Connection Diagram
GEM2034E-FIG1



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	4004D5282PB1	4004D5282SJ1
Bearing	235A2503AE01	235A2503AE01
Slinger/Inproseal	4002B5914AF3	4002B5914AG3

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	159C6700G01
Fan Cover	4003C5787PA1

Conduit & Accessories Box Assembly	
Part Description	Part#
Conduit Box	4002B5721PA-G01

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

