



GE INDUSTRIAL MOTORS
a **WOLONG** company

Product Technical Information

September 18, 2021

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

Model Number:	5KS215XAA2070C
Catalog Number:	M9550
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG7
Outline Drawing:	4002B5821PBP5463

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:	5KS215XAA2070C	Estimated Weight:	220 Lbs
Outline Drawing:	4002B5821PBP5463	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG7	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	841
Design Code:	21BD1267B	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	215TC	Insulation Class:	H
Phases:	3	NEMA Design:	B
Poles:	4	Nominal Efficiency:	91.7 %
Output Power:	10HP 7.4KW	Guaranteed Efficiency:	91.0 %
RPM:	1770	3/4 Load Efficiency:	--
Voltage:	575	KVA Code:	H
Hertz:	60	Max KVAR:	3.2
Amps - FL:	9.8	Power Factor:	83.0
Service Factor:	1.15	Bearing - DE:	6309ZC3
Alt Service Factor:	--	Bearing - ODE:	6208ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

IEEE-STD-841-2009

DE BRG 45BC03JP30 ODE BRG 40BC02JP30

STAMP NP249A5564P051 AS BELOW:

MODEL:5KS215XAA2070C 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 200C VT OR 200C CT OR 200C CHP PWM CONTROL

ALTERNATE RATING FOR PWM CONTROL 1.0SF 40C AMB

VT 0 - 60 HZ, CT 3-60HZ, CHP 60-90HZ.



Additional Information:

4P - T EXTN
STANDARD FLOOR MOUNT
C/BOX 55 CU IN-1.00 NPT
F1 CONDUIT BOX MOUNTING
"C" FACE AT DE ENDSHIELD
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
ROTATE D.E. E/SHIELD 90 DEG. PER OUTLINE
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: 21BD1267B

Marks:

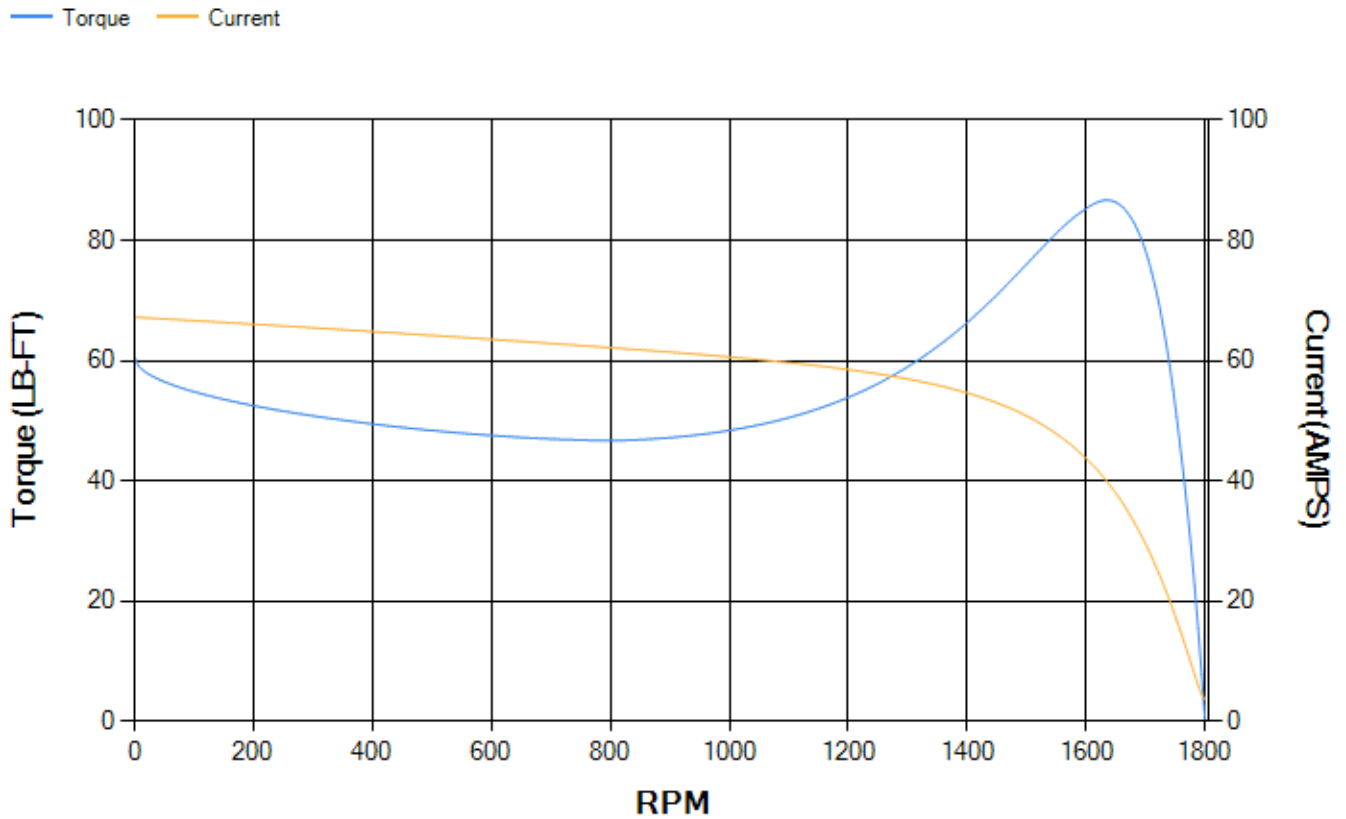
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	90.57	91.08	91.92	92.33	91.99	88.48	0.00
% PF	84.05	83.81	82.89	79.2	70.2	48.8	5.71
AMPS	12.3	11.28	9.83	7.68	5.8	4.34	3.63

TORQ(FL)#FT	29.68	TORQ(LR)%FL	203.99	TORQ(BD)%FL	290.22
AMPS(LR)	67.22	PF AT START	0.41		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 318 Lb-Ft Sq (13.39 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 40 seconds. Safe stall time at 100% voltage is 89 seconds cold, 60 seconds hot. Rotor inertia is 1.12 Lb-Ft Sq (0.05 Kg-meter Sq).

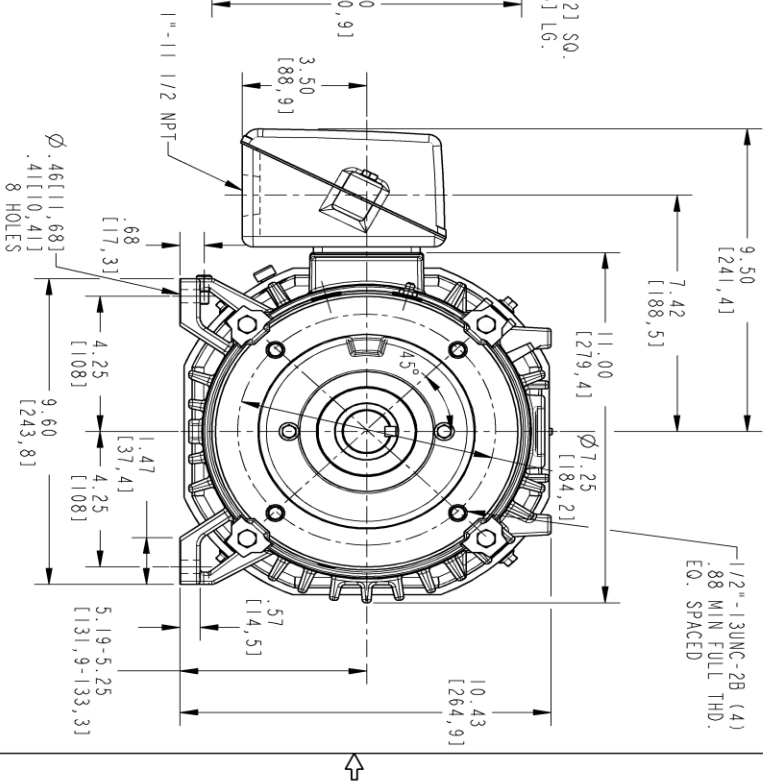
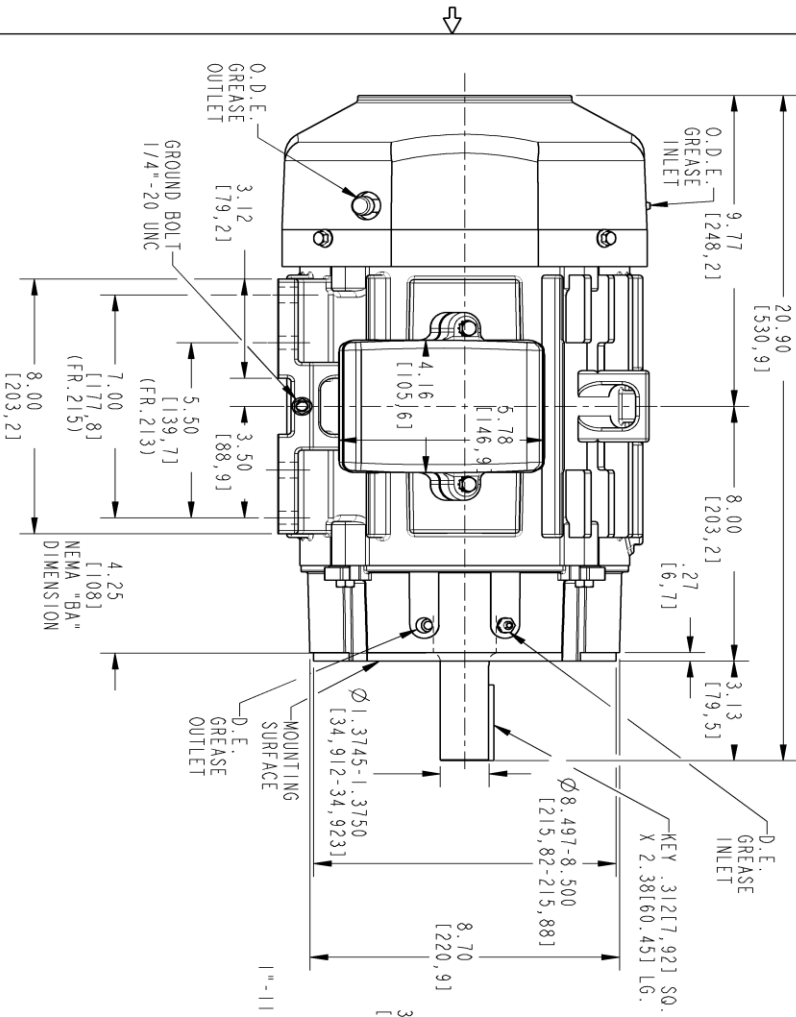
Open Circuit A-C:	0.412	Short Circuit D-C:	0.012
Short Circuit A-C:	0.02	X/R Ratio:	4.709
Stator Slots:	36	Rotor Slots:	28

Speed Torque Current Curve (First Connection, First Speed)



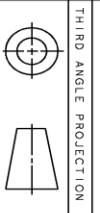
Marks:

- NOTE 1: CONDUIT BOX MAY BE ASSEMBLED WITH ENTRANCE UP, DOWN OR TO EITHER SIDE.
- NOTE 2: F1 ASSEMBLY AS SHOWN.
- NOTE 3: MOUNTING SURFACES WILL BE SQUARE AND CONCENTRIC WITH SHAFT WITHIN .004 T.I.R.
- NOTE 4: SHAFT RUNOUT NOT TO EXCEED .001 T.I.R.
- NOTE 5: D.E. ENDSHIELD ROTATED 90° COUNTER CLOCKWISE.
- NOTE 6: ALL DIMENSIONS ARE IN INCHES, BRACKETED DIMENSIONS ARE IN METRIC (MILLIMETERS)



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REV.	DESCRIPTION	DATE	APPROVED
1	ISAC# 18-0869	11/01/18	PRASHANTH
2	ISAC# 21-0175	SACHIN 31/05/21	RAGHU



THIRD ANGLE PROJECTION

SIGNATURES	DATE	 GE INDUSTRIAL MOTORS <i>a Wolog company</i>
MODEL: LAKSHIKANTH	03/02/21	
DETAIL: LAKSHIKANTH	03/02/21	TITLE INDUCTION MOTOR OUTLINE IEEE-841 SPEC, "C" FACE AT DE (185° RABBIT) FR 2187C/216 TC TERC, 55 CL IN BOX
CREATED: PIVUSH	03/02/21	
CHKD: PIVUSH	03/02/21	
DATE: PIVUSH	03/02/21	
QUALITY: LAKSHIKANTH	03/11/21	SCALE: 0.300 REF. No.: 4002B5821PBP5311
ISSUED: LAKSHIKANTH	03/11/21	
SOLID MODEL: 4002B5821PBP5463		SHEET 1 OF 1

SIZE: DRAWING NO. **4002B5821PBP5463** REV. **002** SHEET **1**

Marks:

Connection Diagram
GEM2034E-FIG7



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	128D6006RF1	4004D5282SJ1
Bearing	235A2507EB01	235A2503AE01
Slinger/Inproseal	4002B5914GF3	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	

