



GE INDUSTRIAL MOTORS
a **WOLONG** company

Product Technical Information

April 14, 2021

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

Model Number:	5KS184SAA200D1
Catalog Number:	M9890
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG1
Outline Drawing:	4002B5818PBP5311

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:	5KS184SAA200D1	Estimated Weight:	101 Lbs
Outline Drawing:	4002B5818PBP5311	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG1	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	841
Design Code:	18BD1247A	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	65
Frame:	184TC	Insulation Class:	H
Phases:	3	NEMA Design:	B
Poles:	4	Nominal Efficiency:	89.5 %
Output Power:	5HP 3.7KW	Guaranteed Efficiency:	88.5 %
RPM:	1755	3/4 Load Efficiency:	--
Voltage:	460	KVA Code:	J
Hertz:	60	Max KVAR:	2.1
Amps - FL:	6.7	Power Factor:	78.5
Service Factor:	1.15	Bearing - DE:	6307ZC3
Alt Service Factor:	1.00	Bearing - ODE:	6206ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

IEEE-STD-841-2009

DE BRG 35BC03JP30 ODE BRG 30BC02JP30

STAMP NP249A5564P051 AS BELOW:

MODEL:5KS184SAA200D1 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 200C VT OR 215C CT OR 200C 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:

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 DE / SLINGER ODE
GROUND SCREW ON FRAME
SHAFT RUNOUT LIMIT .001" TIR
OIL RESISTANT SLEEVING ON LEADS



Performance Characteristics

1st Winding 1st Connection

Design: 18BD1247A

Marks:

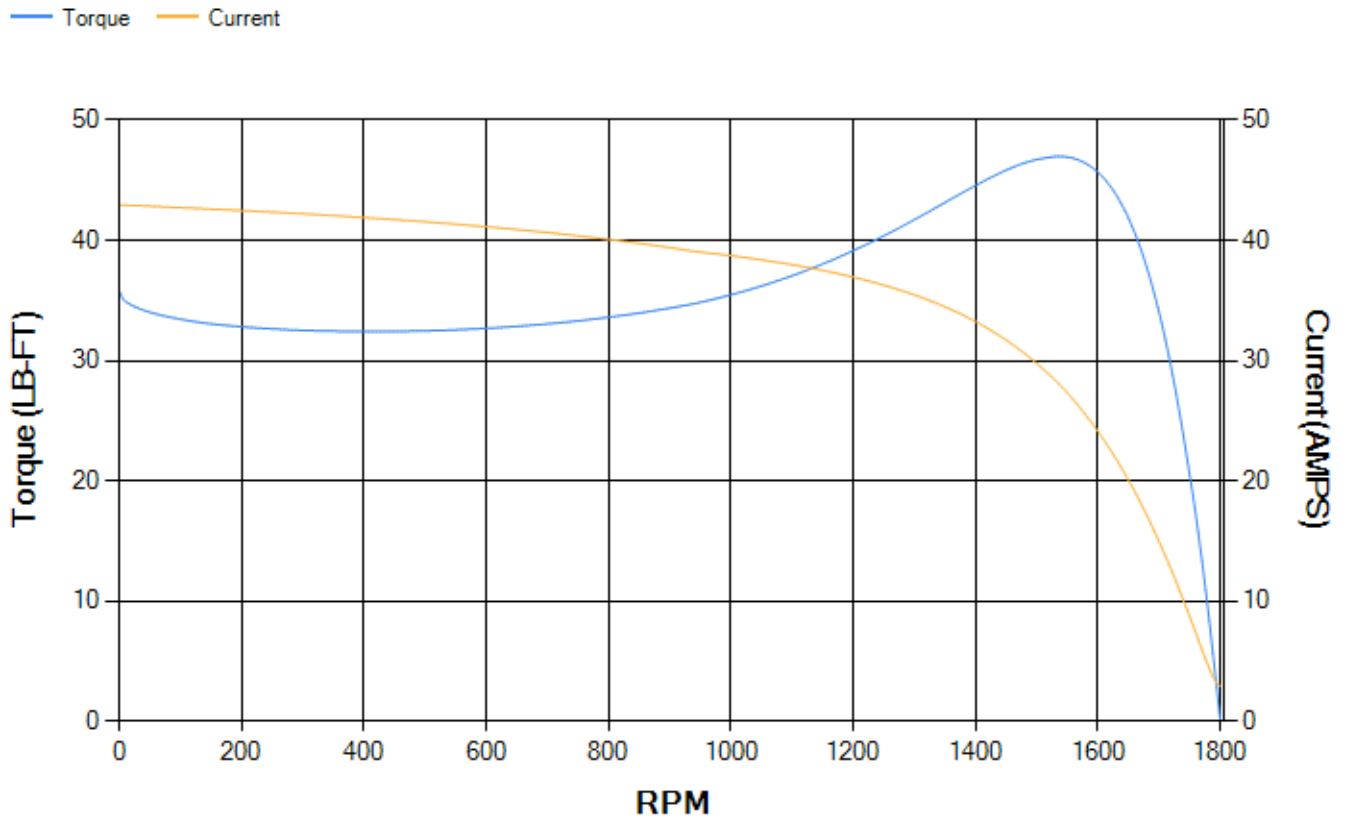
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	88.41	89.01	89.94	90.43	89.92	85.48	0.00
% PF	80.89	80.12	79.74	72.64	61.3	39.72	5.7
AMPS	8.18	7.55	6.53	5.34	4.25	3.45	2.93

TORQ(FL)#FT	14.95	TORQ(LR)%FL	239.03	TORQ(BD)%FL	311.31
AMPS(LR)	42.95	PF AT START	0.51		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 185 Lb-Ft Sq (7.79 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 34 seconds. Safe stall time at 100% voltage is 76 seconds cold, 49 seconds hot. Rotor inertia is 0.34 Lb-Ft Sq (0.01 Kg-meter Sq).

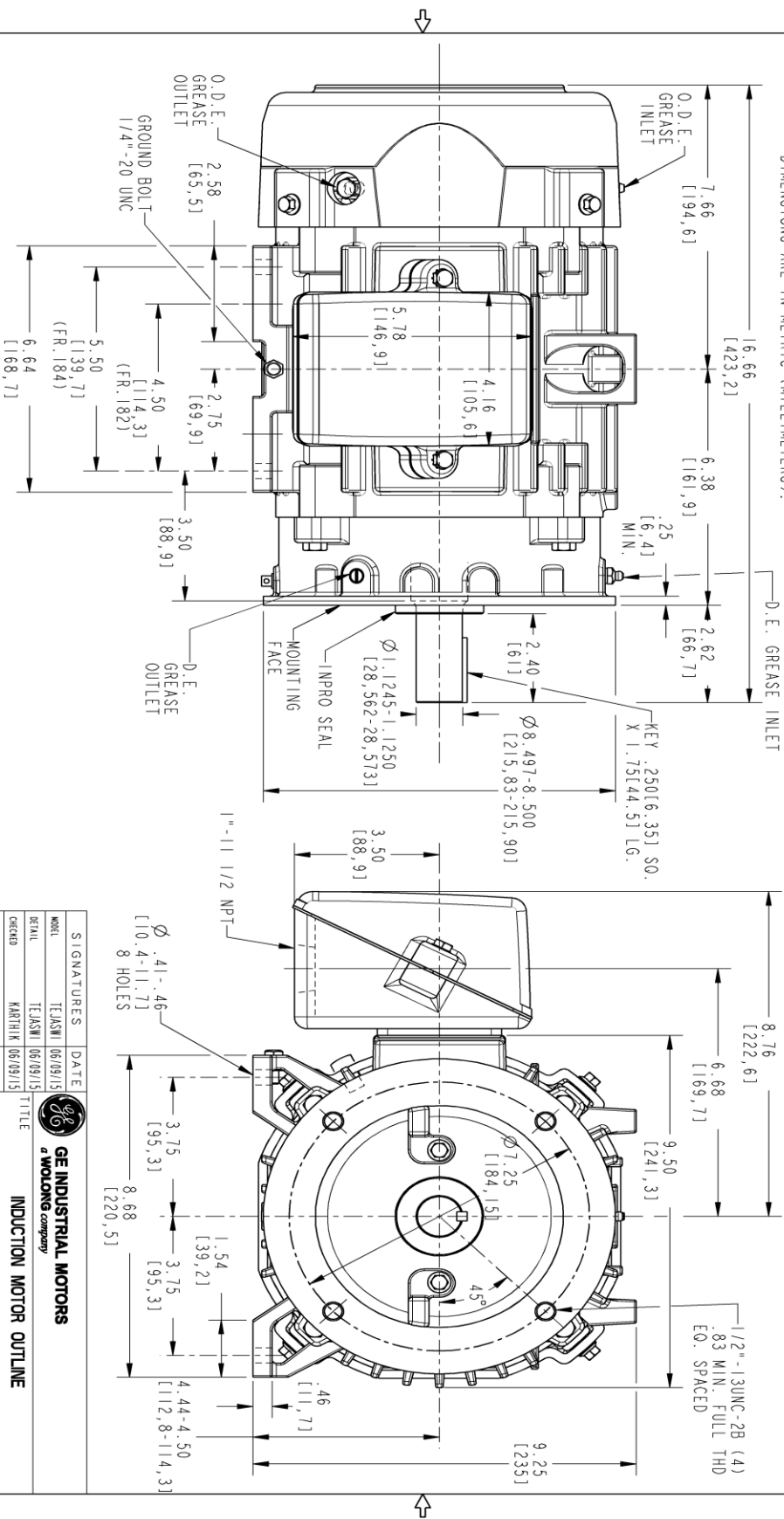
Open Circuit A-C:	0.231	Short Circuit D-C:	0.008
Short Circuit A-C:	0.012	X/R Ratio:	3.155
Stator Slots:	36	Rotor Slots:	28

Speed Torque Current Curve (First Connection, First Speed)



Marks:

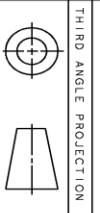
NOTE 1: CONDUIT BOX MAY BE ASSEMBLED WITH ENTRANCE UP OR DOWN.
 NOTE 2: F1 ASSEMBLY AS SHOWN, F2 ASSEMBLY CONDUIT BOX ON OPPOSITE SIDE FROM SHOWN LOCATION.
 NOTE 3: MOUNTING SURFACES WILL BE SQUARE AND CONCENTRIC WITH SHAFT WITHIN .004 T.I.R.
 NOTE 4: SHAFT RUNOUT WILL NOT EXCEED .001 T.I.R.
 NOTE 5: ALL DIMENSIONS ARE IN INCHES, BRACKETED DIMENSIONS ARE IN METRIC (MILLIMETERS).



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REV.	DESCRIPTION	DATE	APPROVED
1	ISAC# 18-0869	SREDEV1 10/26/18	PRASHANTH

SIZE	DRAWING NO.	REV	SHEET
B	4002B5818BP5311	001	1



THIRD ANGLE PROJECTION

SIGNATURES	DATE	TITLE
TEJASNI	06/09/15	INDUCTION MOTOR OUTLINE
TEJASNI	06/09/15	
KARTHIK	06/09/15	
VENKAT	06/09/15	

GE INDUSTRIAL MOTORS
 a WOLOG company

IEEE-841 SPEC, "C" FACE AT DE (185° RABBIT)
 FR182/184 TC TERC

SCALE: 0.400 REF. No.: 4002B5818BP5311

ISSUED	SIZE	DRAWING	REV
B	4002B5818BP5311	001	1

Marks:

Connection Diagram
GEM2034E-FIG1



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	4004D5286PE1	4004D5281SG1
Bearing	235A2501AE01	235A2502AM01
Slinger/Inproseal	316A5384AJ1	149C4399G16

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	4001A5914AM-G01
Fan Cover	4003C5786PA1

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

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

