



GE INDUSTRIAL MOTORS
a **WOLONG** company

Product Technical Information

April 1, 2021

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

Model Number:	5KS184SAA108D4
Catalog Number:	M9940
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG1
Outline Drawing:	4002B5818PAP5933

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: 5KS184SAA108D4
Outline Drawing: 4002B5818PAP5933
Connection Diagram: GEM2034E-FIG1
Instruction Book: GEI-56128
Design Code: 18BD0103A
Type: KS
Frame: 184T
Phases: 3
Poles: 2
Output Power: 5HP 3.7KW
RPM: 3530
Voltage: 460
Hertz: 60
Amps - FL: 6.6
Service Factor: 1.15
Alt Service Factor: --

Estimated Weight: 101 Lbs
Time Rating: CONT
Enclosure: TEFC
Encl Construction: 841
Ambient Max(°C): 40
Alt Ambient Max(°C): --
Insulation Class: H
NEMA Design: B
Nominal Efficiency: 88.5 %
Guaranteed Efficiency: 87.5 %
3/4 Load Efficiency: --
KVA Code: J
Max KVAR: 1.9
Power Factor: 80.0
Bearing - DE: 6206ZC3
Bearing - ODE: 6206ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

IEEE-STD-841-2009
 DE BRG 30BC02JP30 ODE BRG 30BC02JP30
 STAMP NP249A5564P051 AS BELOW:
 MODEL:5KS184SAA108D4 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 -40C <= AMB <= 40C, 1.0 SF ON SINE-WAVE PWR
 SURF TEMP 200C 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:

2P - 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
GROUND SCREW ON FRAME
SHAFT RUNOUT LIMIT .001" TIR
OIL RESISTANT SLEEVING ON LEADS



Performance Characteristics

1st Winding 1st Connection

Design: 18BD0103A**Marks:**

LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	88.54	88.88	89.44	89.25	87.78	81.41	0.00
% PF	83.05	82.11	83.84	74.24	62.93	41.64	8.89
AMPS	7.96	7.37	6.24	5.3	4.24	3.45	2.67

TORQ(FL)#FT 7.44
AMPS(LR) 43.22

TORQ(LR)%FL 213.15
PF AT START 0.4

TORQ(BD)%FL 336.72

This motor is capable of two cold or one hot start with a maximum connected load inertia of 45 Lb-Ft Sq (1.89 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 38 seconds. Safe stall time at 100% voltage is 78 seconds cold, 57 seconds hot. Rotor inertia is 0.15 Lb-Ft Sq (0.01 Kg-meter Sq).

Open Circuit A-C: 0.299

Short Circuit D-C: 0.01

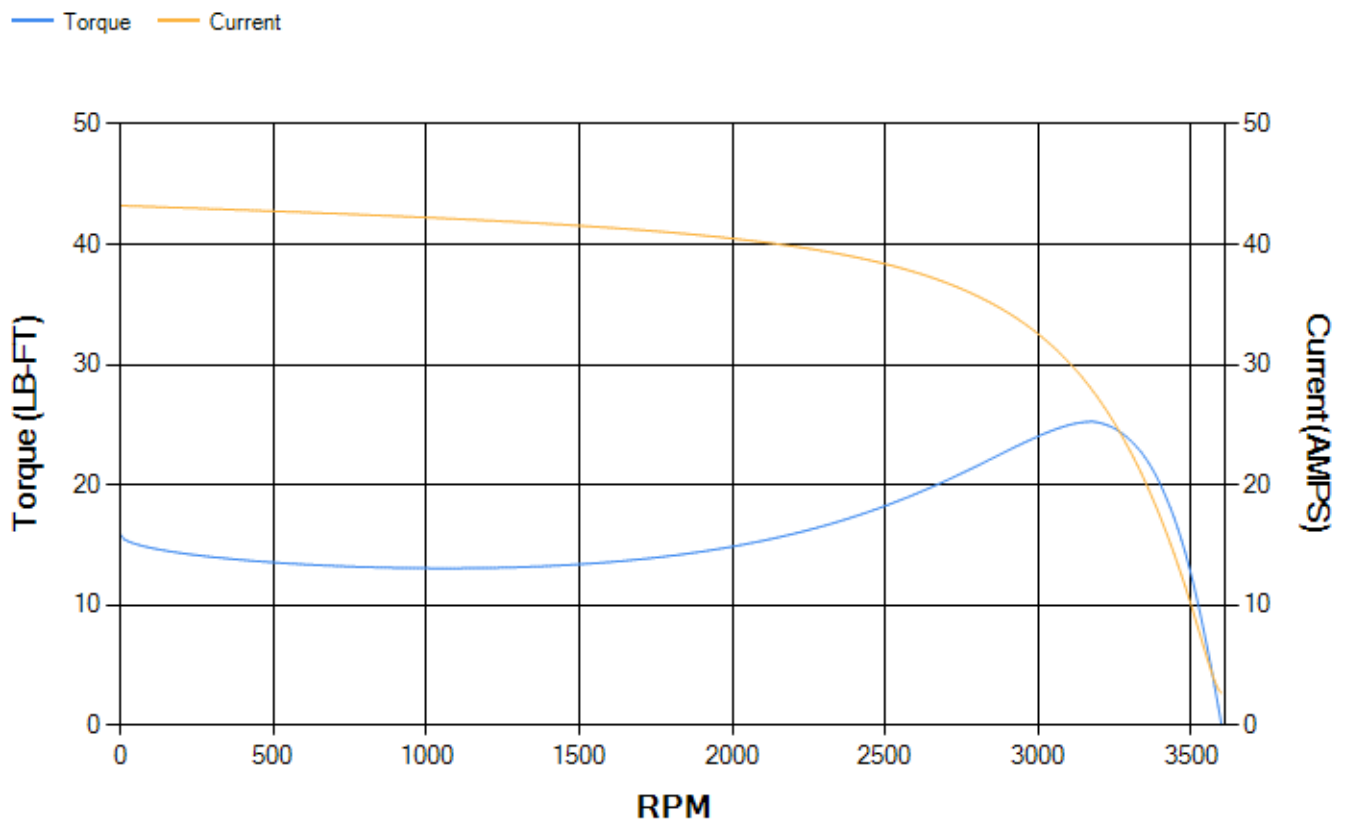
Short Circuit A-C: 0.017

X/R Ratio: 3.957

Stator Slots: 36

Rotor Slots: 28

Speed Torque Current Curve (First Connection, First Speed)

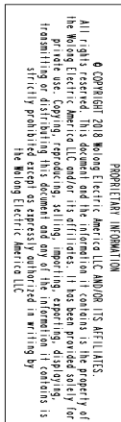


NOTE 1: CONDUIT BOX MAY BE ASSEMBLED WITH ENTRANCE UP, DOWN OR TO EITHER SIDE.

NOTE 2: FIT ASSEMBLY AS SHOWN.

NOTE 3: SHAFT RUNOUT WILL NOT EXCEED .001 T. I. R.

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



AP5933	REV 0	SHEET 1	REVIEWS		
REV.	DESCRIPTION		DATE	APPROVED	

SIGNATURES		DATE
MODEL	DHECRAB	04/03/21
DETAIL	DHECRAB	04/03/21
CHECKED	DHECRAB	04/03/21
EMERG	DHECRAB	04/03/21
W/E		
QUALITY		
ISSUED	DHECRAB	04/03/21
SOLID MODEL: 4002B5818PAP5933		



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INDUCTION MOTOR OUTLINE

STANDARD CONSTRUCTION

FRB2/84 T TFC

SCALE: 0.400

REF. No.: 4002B5818PAP5301

SIZE DRAWING

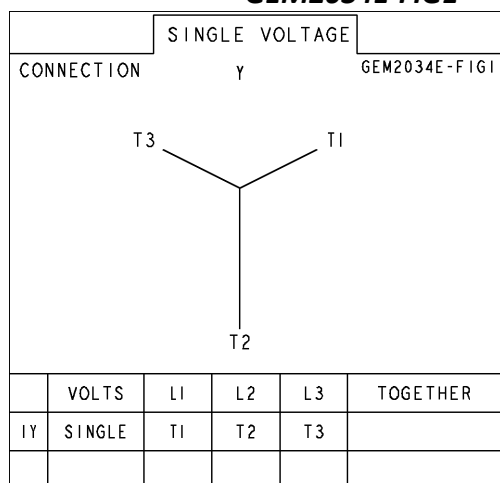
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REV

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SHEET 1 of 1

WOLONG

Marks:**Connection Diagram****GEM2034E-FIG1**

End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	4004D5281PB1	4004D5281SG1
Bearing	235A2502AM01	235A2502AM01
Slinger/Inproseal	149C4399G16	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	

