



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:	5KS182SAA308D2
Catalog Number:	M9943
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: 5KS182SAA308D2
Outline Drawing: 4002B5818PAP5933
Connection Diagram: GEM2034E-FIG1
Instruction Book: GEI-56128
Design Code: 18BD3001A
Type: KS
Frame: 182T
Phases: 3
Poles: 6
Output Power: 1.5HP 1.1KW
RPM: 1170
Voltage: 460
Hertz: 60
Amps - FL: 2.4
Service Factor: 1.15
Alt Service Factor: --

Estimated Weight: 76 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: 87.5 %
Guaranteed Efficiency: 86.5 %
3/4 Load Efficiency: --
KVA Code: M
Max KVAR: 1.0
Power Factor: 68.0
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:5KS182SAA308D2 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 200C 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:

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



Performance Characteristics

1st Winding 1st Connection

Design: 18BD3001A**Marks:**

LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	87.54	87.89	88.44	88.19	86.52	79.52	0.00
% PF	73.61	71.71	69.9	59.67	46.87	28.66	5.86
AMPS	2.72	2.56	2.27	2	1.73	1.54	1.37

TORQ(FL)#FT 6.72
AMPS(LR) 17.41

TORQ(LR)%FL 218.45
PF AT START 0.46

TORQ(BD)%FL 396.11

This motor is capable of two cold or one hot start with a maximum connected load inertia of 260 Lb-Ft Sq (10.95 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 63 seconds. Safe stall time at 100% voltage is 139 seconds cold, 117 seconds hot. Rotor inertia is 0.34 Lb-Ft Sq (0.01 Kg-meter Sq).

Open Circuit A-C: 0.162

Short Circuit D-C: 0.008

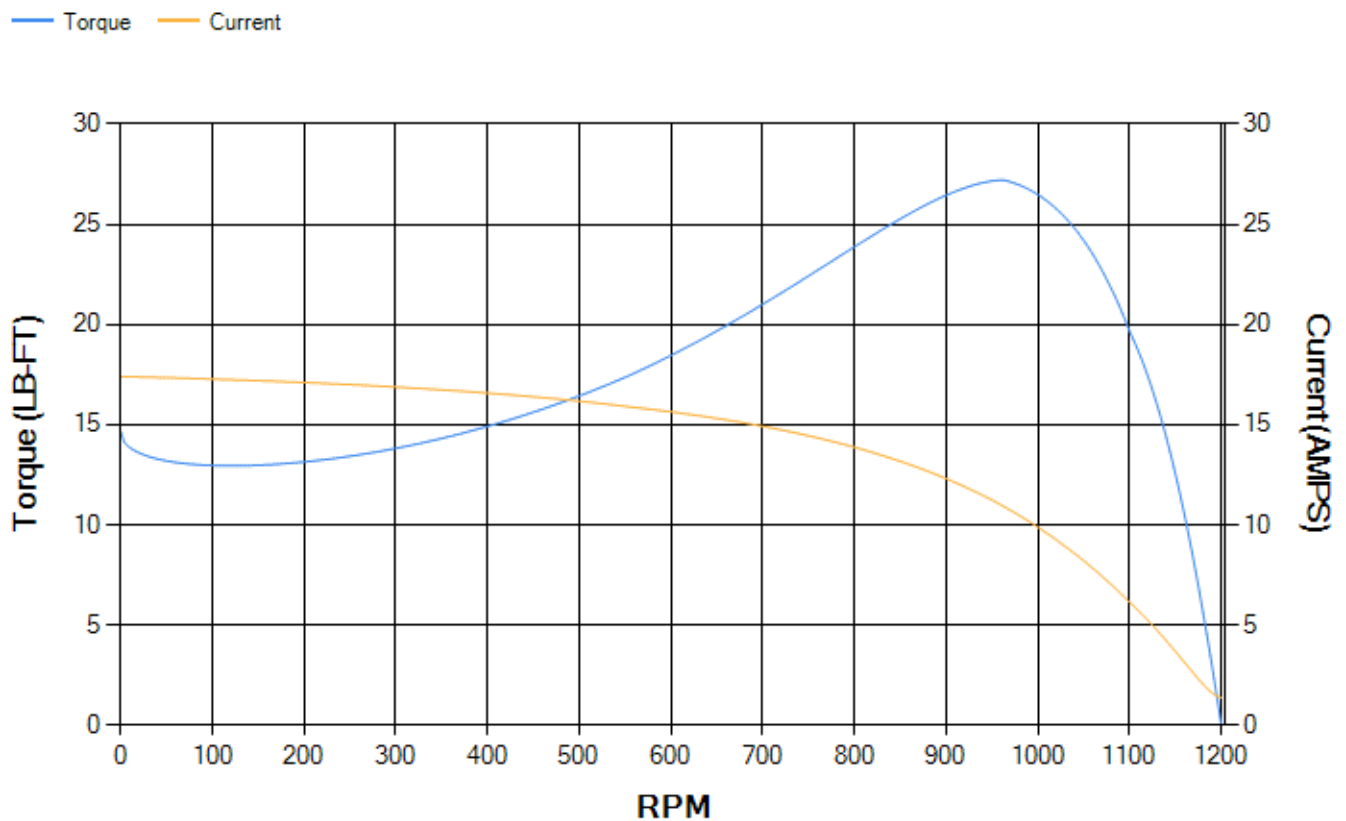
Short Circuit A-C: 0.011

X/R Ratio: 3.204

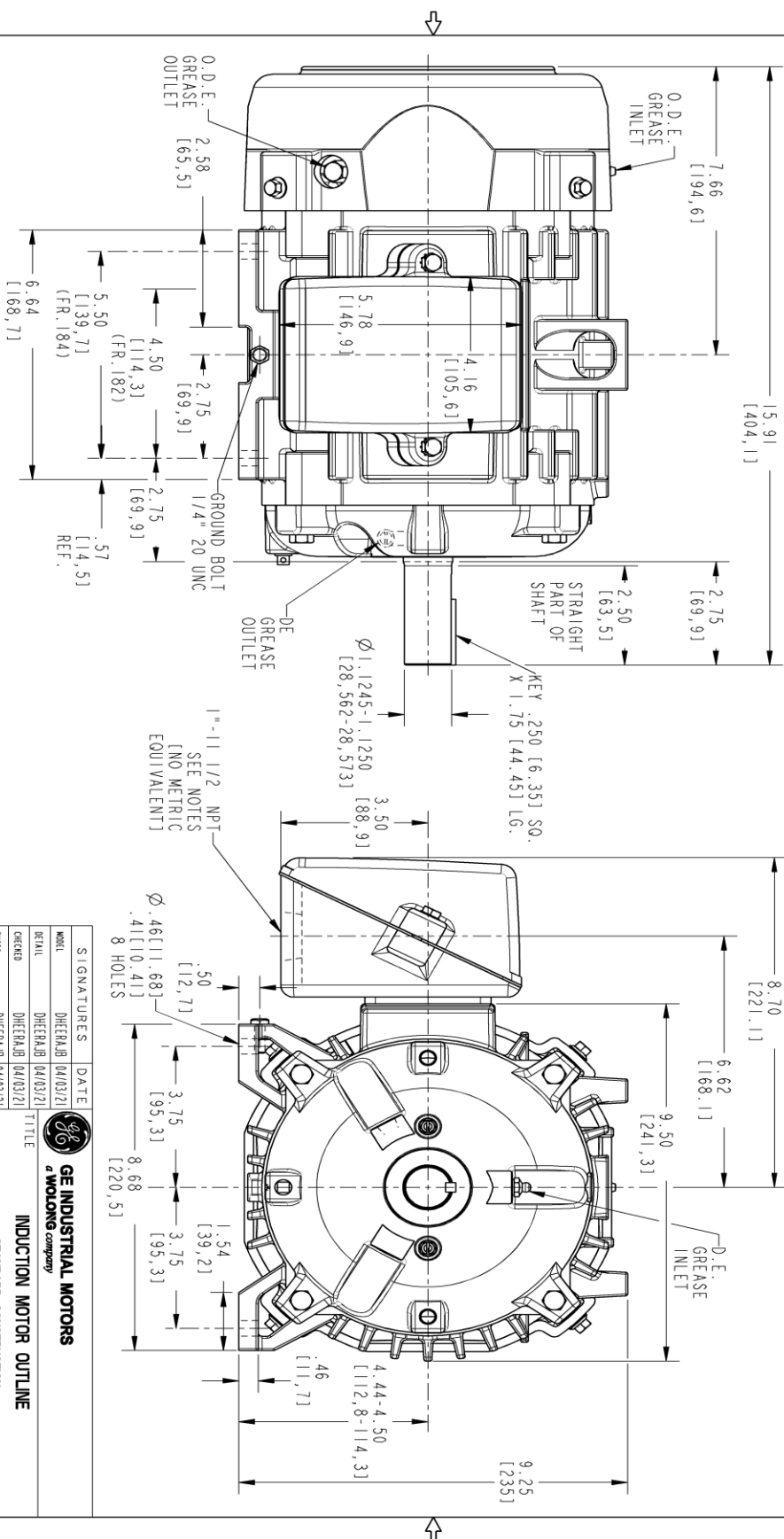
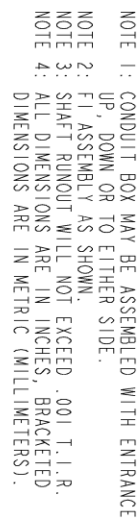
Stator Slots: 36

Rotor Slots: 48

Speed Torque Current Curve (First Connection, First Speed)

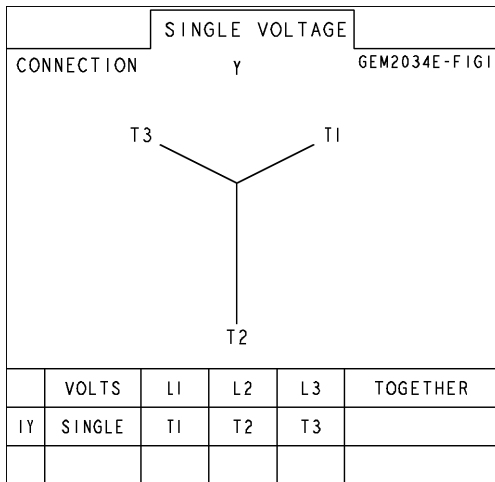


Marks:



	S I Z E		D R A W I N G N O.		4002B58IBPAP5933	
	B					
PROPRIETARY INFORMATION						
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REVISIONS						
REV.	DESCR I P T I O N		DATE		APPROVED	

SIGNATURES		DATE
MODEL	DHECRAB	04/03/21
DETAIL	DHECRAB	04/03/21
CHECKED	DHECRAB	04/03/21
DRAWN	DHECRAB	04/03/21
WG		
QUALITY		
ISSUED	DHECRAB	04/03/21
 GE INDUSTRIAL MOTORS <i>a WOLSK company</i>		
INDUCTION MOTOR OUTLINE STANDARD CONSTRUCTION FR182/184, 1 T TEC		
SIZE DRAWING		REV
B		0
4002B5818PAP5933 SCALE : 0.400 REF. No. : 4002B5818PAP5381		
SHEET		1 of 1

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	

