



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:	5KS286SAA305D5
Catalog Number:	M9155
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG9
Outline Drawing:	4002B5828PAP5943

Accessory Connection Diagrams

Bearing Thermocouple:	None	Heater:	None
RTD:	None	Thermistor:	None
Thermostat:	None	Winding Thermocouple:	None
Bearing RTD:	None		

Table of Contents

Specification	01
Performance Characteristics	02
Outline Drawing	03
Connection Drawing(s)	04
Spare parts	05

Marks:

MODEL NUMBER:	5KS286SAA305D5	Estimated Weight:	510 Lbs
Outline Drawing:	4002B5828PAP5943	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG9	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	841
Design Code:	28BD3135A	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	286T	Insulation Class:	H
Phases:	3	NEMA Design:	B
Poles:	6	Nominal Efficiency:	91.7 %
Output Power:	20HP 14.8KW	Guaranteed Efficiency:	91.0 %
RPM:	1180	3/4 Load Efficiency:	--
Voltage:	230/460	KVA Code:	G
Hertz:	60	Max KVAR:	8.5
Amps - FL:	52.0/26.0	Power Factor:	78.5
Service Factor:	1.15	Bearing - DE:	6310ZC3
Alt Service Factor:	--	Bearing - ODE:	6310ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

DE BRG 50BC03JP30 ODE BRG 50BC03JP30
 EXCEPTION TO IEEE-STD-841-2009: DUAL VOLTAGE
 STAMP NP249A5564P051 AS BELOW:
 MODEL:5KS286SAA305D5 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 7.5-60 HZ, CHP 60-90 HZ.



Additional Information:

6P - T EXTN
STANDARD FLOOR MOUNT
C/BOX 137 CU IN-1.50 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 .0015" TIR
OIL RESISTANT SLEEVING ON LEADS



Performance Characteristics

1st Winding 1st Connection

Design: 28BD3135A

Marks:

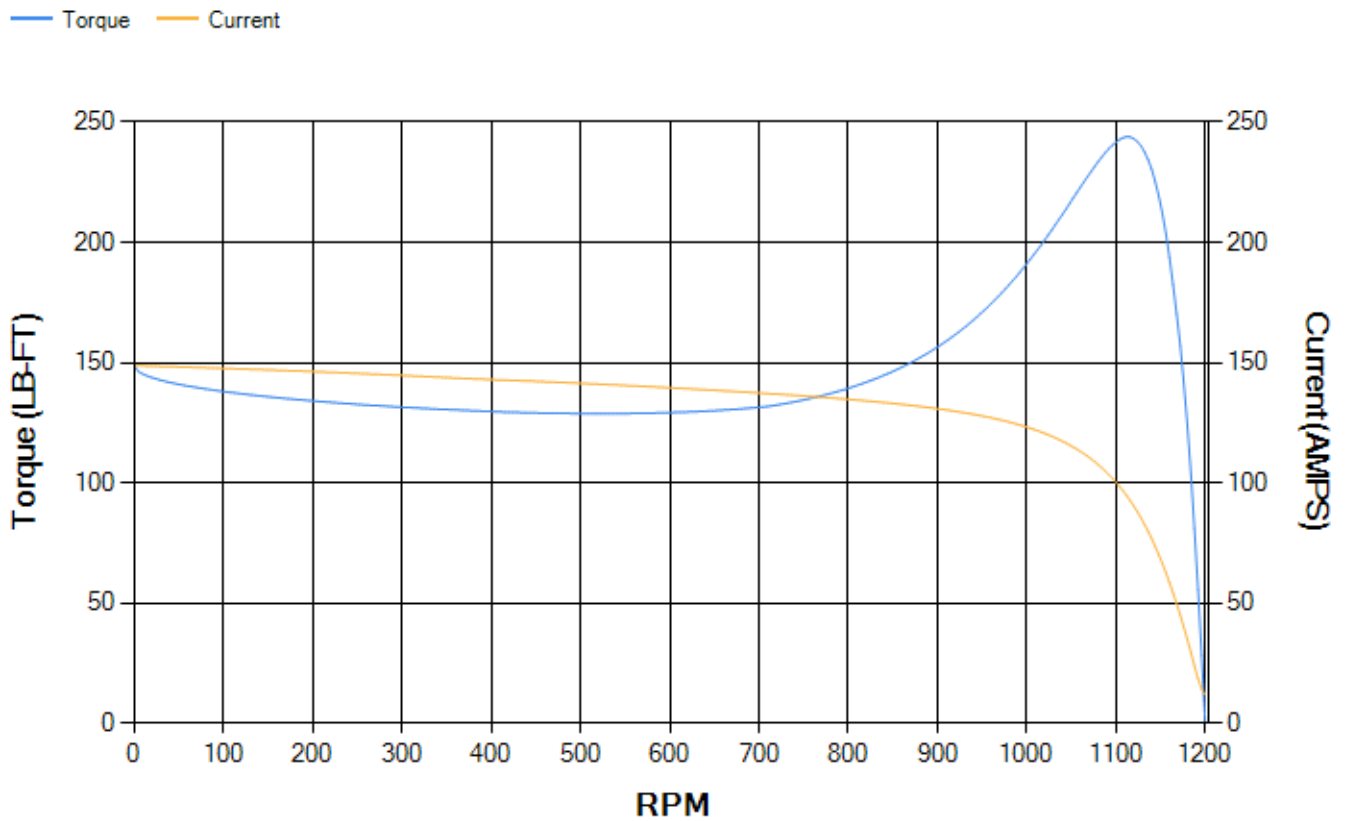
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	91.13	91.58	92.33	92.64	92.24	88.73	0.00
% PF	80.88	80.16	78.41	72.9	61.64	39.69	4.17
AMPS	31.74	29.32	25.88	20.79	16.46	13.29	11.87

TORQ(FL)#FT	88.82	TORQ(LR)%FL	167.21	TORQ(BD)%FL	273.98
AMPS(LR)	148.77	PF AT START	0.37		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 1056 Lb-Ft Sq (44.46 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 82 seconds cold, 50 seconds hot. Rotor inertia is 6.59 Lb-Ft Sq (0.28 Kg-meter Sq).

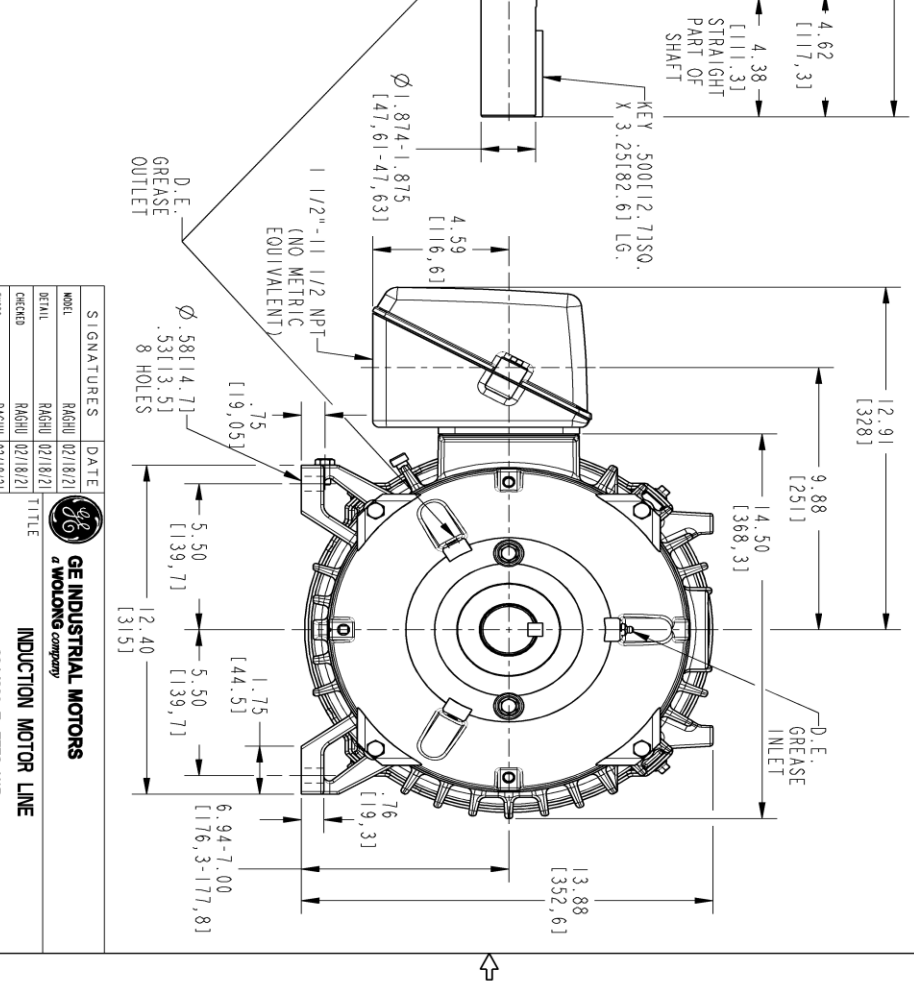
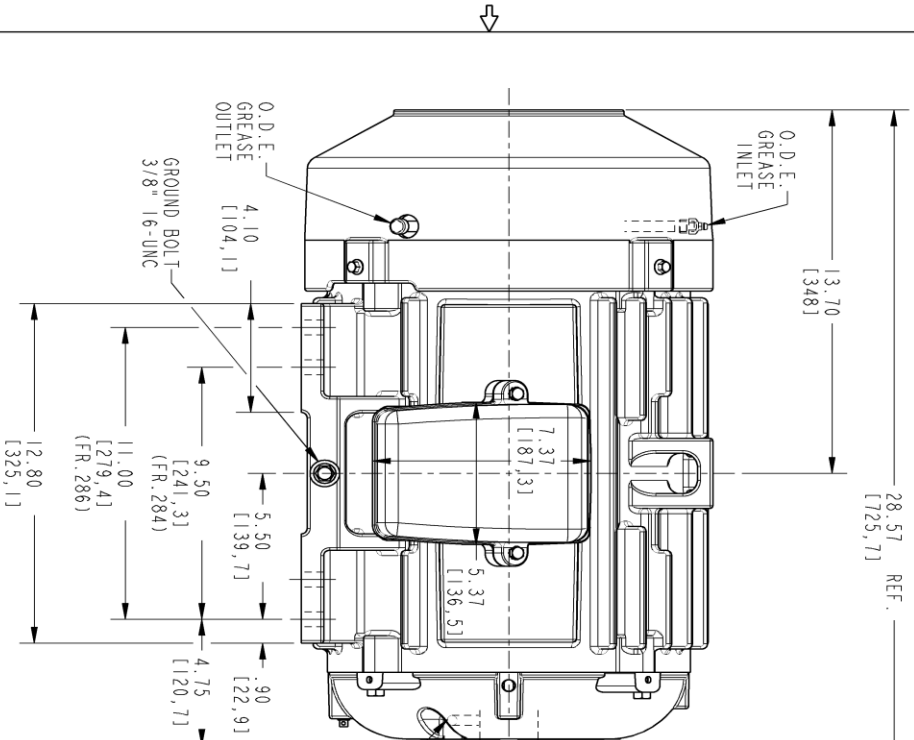
Open Circuit A-C:	0.37	Short Circuit D-C:	0.013
Short Circuit A-C:	0.026	X/R Ratio:	4.83
Stator Slots:	54	Rotor Slots:	42

Speed Torque Current Curve (First Connection, First Speed)



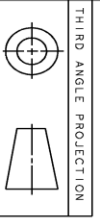
Marks:

NOTE 1: CONDUIT BOX MAY BE ASSEMBLED WITH ENTRANCE UP, DOWN OR TO EITHER SIDE.
 NOTE 2: FIT ASSEMBLY AS SHOWN.
 NOTE 3: ALL DIMENSIONS ARE IN INCHES, BRACKETED DIMENSIONS ARE IN METRIC (MILLIMETERS).



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REV.	DESCRIPTION	DATE	APPROVED



SIGNATURES	DATE	REV.	DESCRIPTION

GE INDUSTRIAL MOTORS
 a Wolog company

INDUCTION MOTOR LINE
 284/286 T, TEFC XSD
 C/BOX 137 CUIN GROUND PAD

4002B5828PAP5943

SCALE: 0.250 REF. No.: 4002B5828PAP5311

SHEET 1 OF 1

Marks:

Connection Diagram
GEM2034E-FIG9



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	4004D5284PB1	4004D5284SE1
Bearing	235A2508EC01	235A2508EC01
Slinger/Inproseal	149C4399G03	149C4399G03

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	159C6900G01
Fan Cover	4003C5789PA1

Conduit & Accessories Box Assembly	
Part Description	Part#
Conduit Box	4002B5728PA-G01

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

