



GE INDUSTRIAL MOTORS
a **WOLONG** company

Product Technical Information

April 11, 2021

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

Model Number:	5KS286SAA405D4
Catalog Number:	M9885
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		

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Marks:

MODEL NUMBER:	5KS286SAA405D4	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:	28BD4035A	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	286T	Insulation Class:	H
Phases:	3	NEMA Design:	A
Poles:	8	Nominal Efficiency:	89.5 %
Output Power:	15HP 11.1KW	Guaranteed Efficiency:	88.5 %
RPM:	885	3/4 Load Efficiency:	--
Voltage:	230/460	KVA Code:	J
Hertz:	60	Max KVAR:	7.1
Amps - FL:	41.6/20.8	Power Factor:	75.5
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:5KS286SAA405D4 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 6-60 HZ, CHP 60-90 HZ.



Additional Information:

8P - 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: 28BD4035A

Marks:

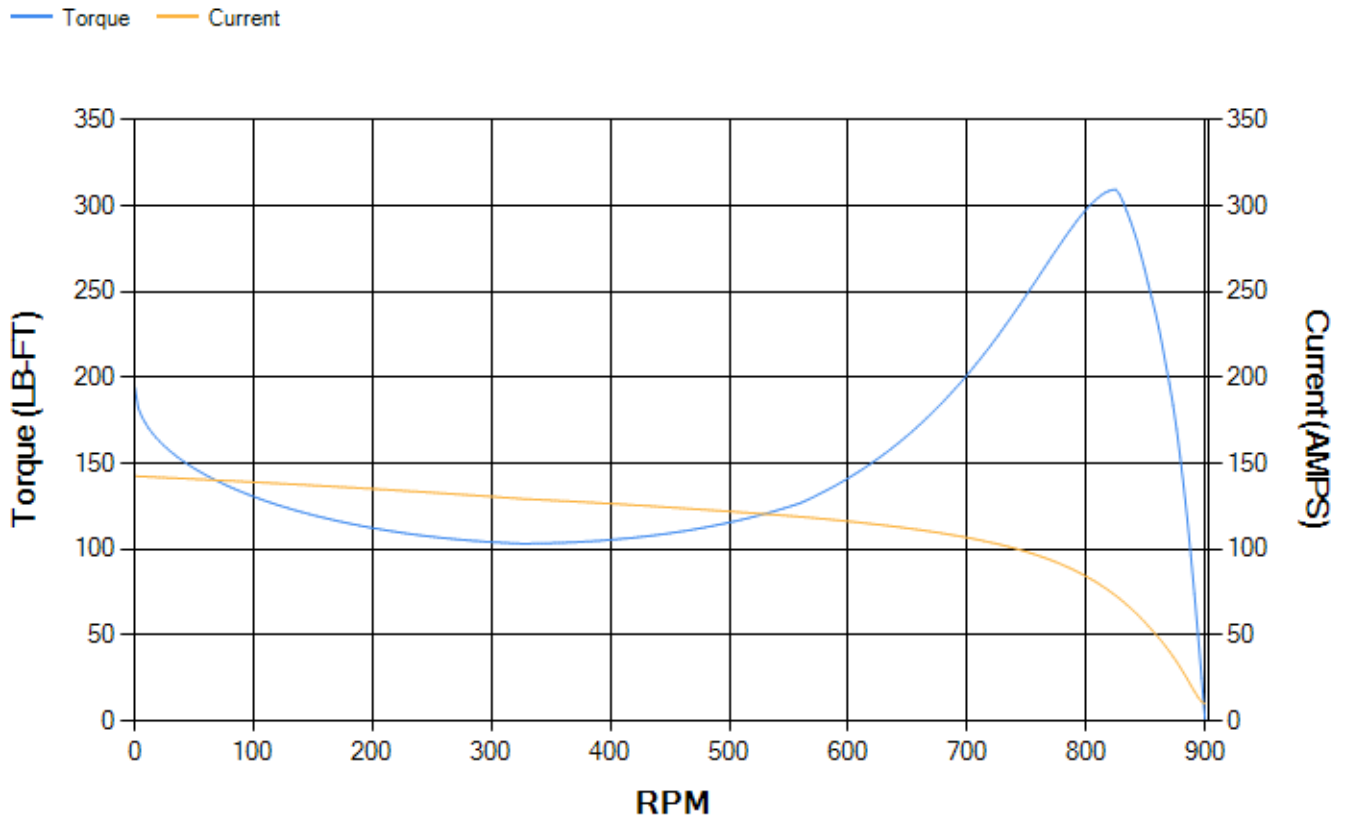
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	87.51	88.32	89.54	90.5	90.57	87.2	0.00
% PF	78.21	77.35	75.34	69.24	57.5	36.29	4.01
AMPS	25.64	23.63	20.79	16.8	13.48	11.09	9.95

TORQ(FL)#FT	89.14	TORQ(LR)%FL	218.65	TORQ(BD)%FL	343.14
AMPS(LR)	142.68	PF AT START	0.36		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 1047 Lb-Ft Sq (44.08 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 25 seconds. Safe stall time at 100% voltage is 65 seconds cold, 37 seconds hot. Rotor inertia is 7.36 Lb-Ft Sq (0.31 Kg-meter Sq).

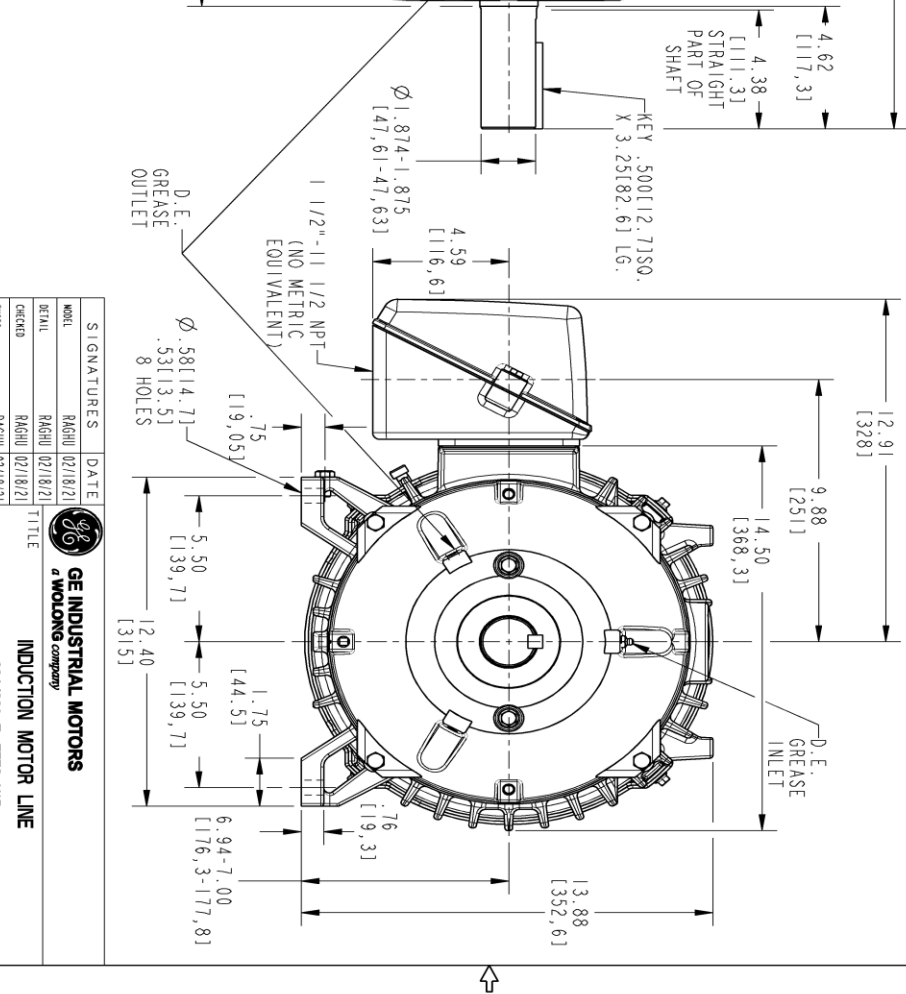
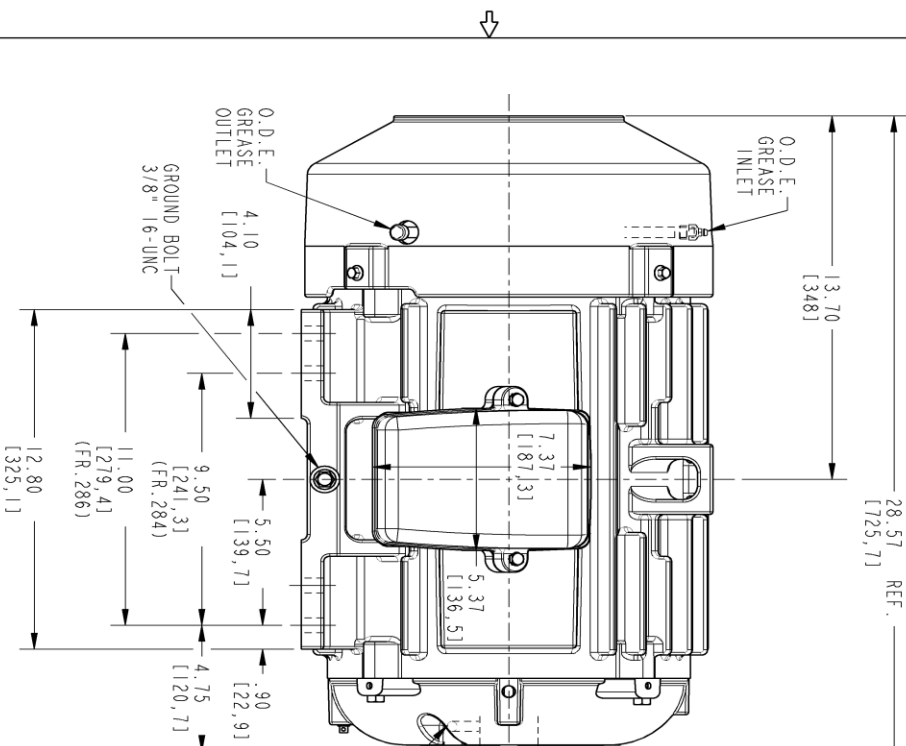
Open Circuit A-C:	0.292	Short Circuit D-C:	0.009
Short Circuit A-C:	0.02	X/R Ratio:	3.558
Stator Slots:	54	Rotor Slots:	70

Speed Torque Current Curve (First Connection, First Speed)



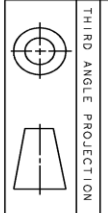
Marks:

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
MODEL	02/18/21
DETAIL	02/18/21
CHECKED	02/18/21
ENGR	02/18/21
QC	
ISSUED	02/18/21
SOLID MODEL:	4002B5828PAP5943

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

REV	DESCRIPTION
000	

SHEET DRAWING
 4002B5828PAP5943
 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	

