



GE INDUSTRIAL MOTORS
a **WOLONG** company

Product Technical Information

May 8, 2021

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

Model Number:	5KS286SAA200D3
Catalog Number:	M9896
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG7
Outline Drawing:	4002B5828PBP5844

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: 5KS286SAA200D3
Outline Drawing: 4002B5828PBP5844
Connection Diagram: GEM2034E-FIG7
Instruction Book: GEI-56128
Design Code: 28BD1157A
Type: KS
Frame: 286TC
Phases: 3
Poles: 4
Output Power: 30HP 22.2KW
RPM: 1775
Voltage: 460
Hertz: 60
Amps - FL: 34.9
Service Factor: 1.15
Alt Service Factor: --

Estimated Weight: 510 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: 93.6 %
Guaranteed Efficiency: 93.0 %
3/4 Load Efficiency: --
KVA Code: G
Max KVAR: 8.2
Power Factor: 86.0
Bearing - DE: 6310ZC3
Bearing - ODE: 6310ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

IEEE-STD-841-2009
 DE BRG 50BC03JP30 ODE BRG 50BC03JP30
 STAMP NP249A5564P051 AS BELOW:
 MODEL:5KS286SAA200D3 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 6-60 HZ, CHP 60-90 HZ.



Additional Information:

4P - T EXTN
STANDARD FLOOR MOUNT
C/BOX 137 CU IN-1.50 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
GROUND SCREW ON FRAME
ROTATE D.E. E/SHIELD 90 DEG. PER OUTLINE
SHAFT RUNOUT LIMIT .0015" TIR
OIL RESISTANT SLEEVING ON LEADS



Performance Characteristics

1st Winding 1st Connection

Design: 28BD1157A

Marks:

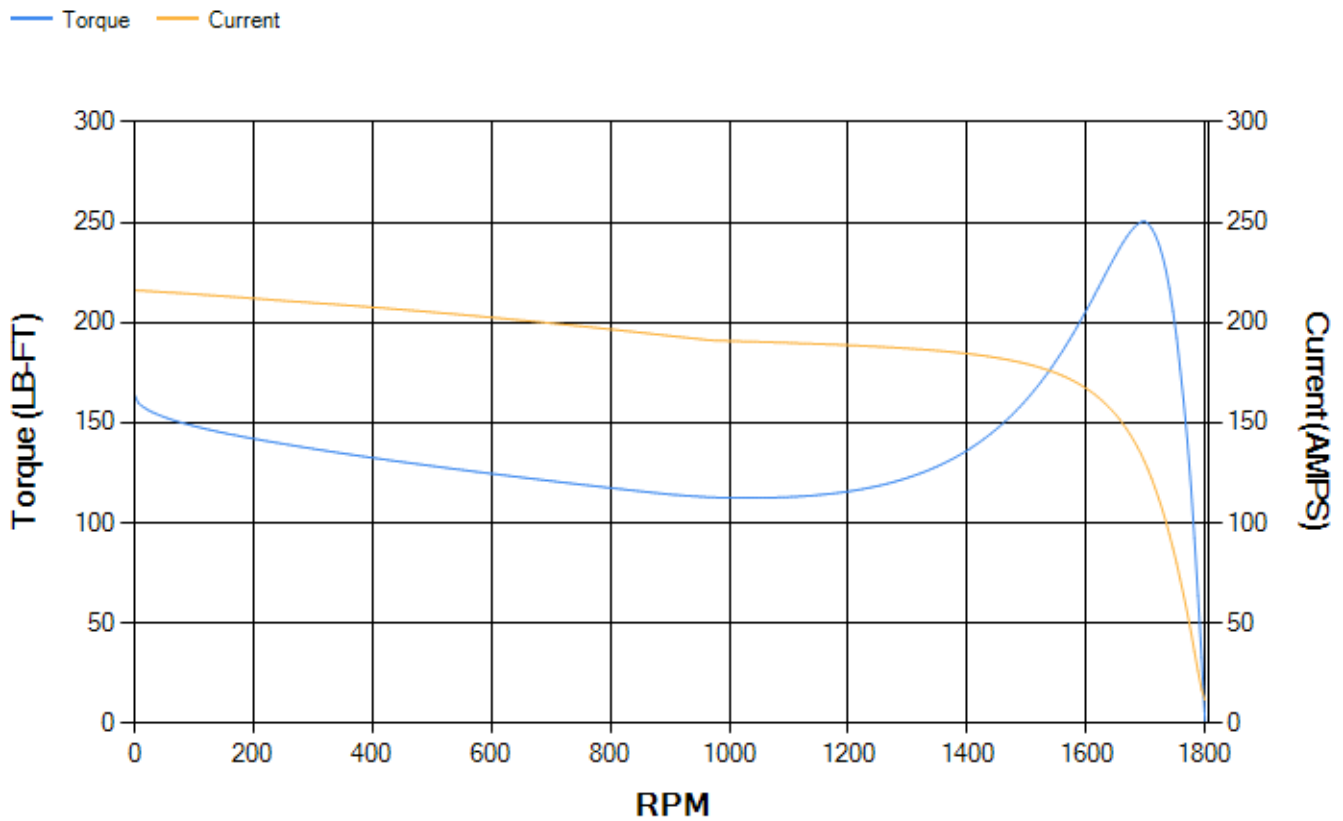
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	92.5	92.93	93.68	94.1	94.05	91.74	0.00
% PF	86.91	86.73	86.02	82.95	74.96	53.68	4.49
AMPS	43.66	40.06	34.83	26.98	19.91	14.25	11.5

TORQ(FL)#FT	88.62	TORQ(LR)%FL	184.77	TORQ(BD)%FL	281.74
AMPS(LR)	216.09	PF AT START	0.38		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 969 Lb-Ft Sq (40.79 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 51 seconds. Safe stall time at 100% voltage is 90 seconds cold, 61 seconds hot. Rotor inertia is 5.39 Lb-Ft Sq (0.23 Kg-meter Sq).

Open Circuit A-C:	0.634	Short Circuit D-C:	0.016
Short Circuit A-C:	0.027	X/R Ratio:	5.921
Stator Slots:	48	Rotor Slots:	40

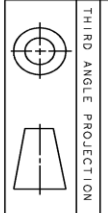
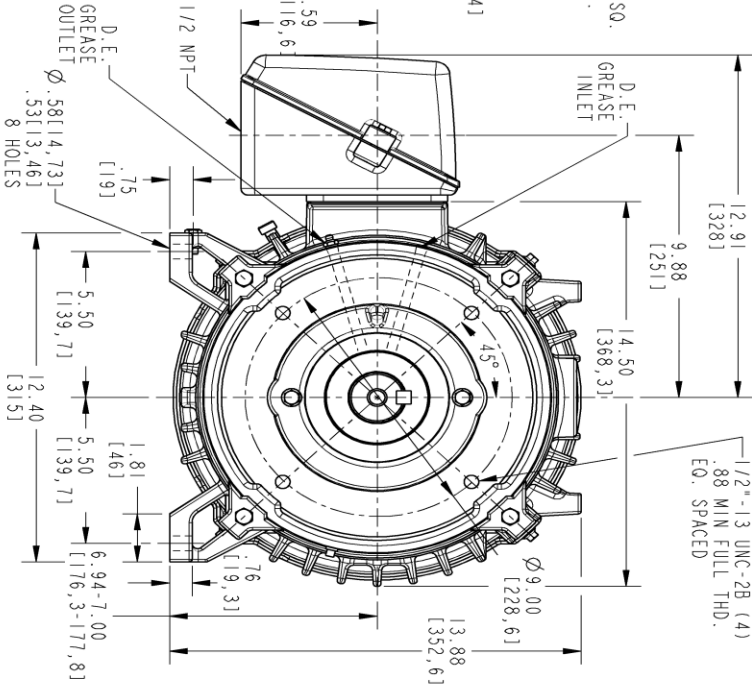
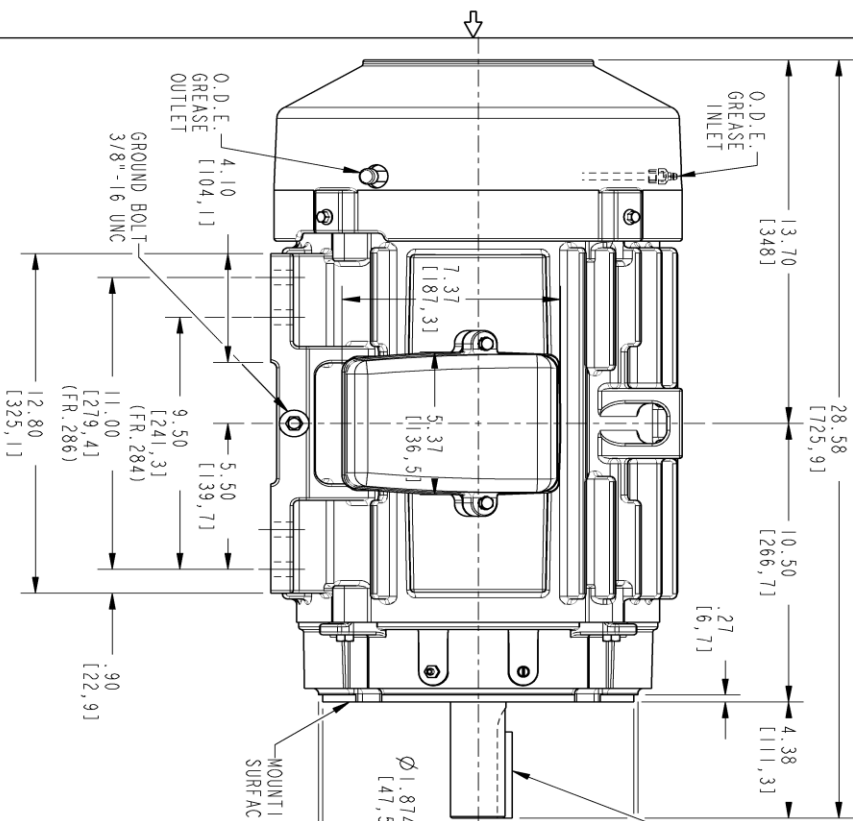
Speed Torque Current Curve (First Connection, First Speed)



Marks:

NOTE 1: CONDUIT BOX MAY BE ASSEMBLED WITH ENTRANCE UP, DOWN OR TO EITHER SIDE.
 NOTE 2: FT. ASSEMBLY AS SHOWN.
 NOTE 3: MOUNTING SURFACES WILL BE SQUARE AND CONCENTRIC WITH SHAFT WITHIN .004 T.I.R.
 NOTE 4: DE ENDSHIELD ROTATED 90° COUNTER CLOCKWISE.
 NOTE 5: ALL DIMENSIONS ARE IN INCHES, BRACKETED DIMENSIONS ARE IN METRIC (MILLIMETERS)

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SIGNATURES	DATE
MOEL	RAGHU 02/18/21
DETAIL	RAGHU 02/18/21
DESIGN	RAGHU 02/18/21
ENGR	
QC	
QUALITY	
ISSUED	RAGHU 02/18/21
SOLD ID MODEL:	4002B5828BP5844

TITLE	SCALE:
INDUCTION MOTOR OUTLINE	0.250
284/286 TC, C-FACE AT DE NOS RABBIT	
TEFC XSD, GROUND PAD	

REV	DESCRIPTION	DATE	APPROVED
000			

SIZE DRAWING NO. B
 4002B5828BP5844
 REV SHEET 1

REV SHEET 1

SCALE: 0.250
 REF. No.: 4002B5828BP5311
 SHEET 1 of 1

Marks:

Connection Diagram
GEM2034E-FIG7



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	128D6206WF1	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	

