



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:	5KS286SAA404D4
Catalog Number:	M9886
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG7
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: 5KS286SAA404D4
Outline Drawing: 4002B5828PAP5943
Connection Diagram: GEM2034E-FIG7
Instruction Book: GEI-56128
Design Code: 28BD4035B
Type: KS
Frame: 286T
Phases: 3
Poles: 8
Output Power: 15HP 11.1KW
RPM: 885
Voltage: 575
Hertz: 60
Amps - FL: 16.8
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: A
Nominal Efficiency: 89.5 %
Guaranteed Efficiency: 88.5 %
3/4 Load Efficiency: --
KVA Code: J
Max KVAR: 7.4
Power Factor: 74.5
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:5KS286SAA404D4 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 SLEEVE ON LEADS



Performance Characteristics

1st Winding 1st Connection

Design: 28BD4035B**Marks:**

LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	87.77	88.51	89.66	90.5	90.44	86.82	0.00
% PF	77.84	76.87	74.68	68.27	56.28	35.25	4.02
AMPS	20.55	18.98	16.76	13.63	11.03	9.18	8.29

TORQ(FL)#FT 89.07
AMPS(LR) 118.36

TORQ(LR)%FL 228.22
PF AT START 0.36

TORQ(BD)%FL 356.46

This motor is capable of two cold or one hot start with a maximum connected load inertia of 1035 Lb-Ft Sq (43.57 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 23 seconds. Safe stall time at 100% voltage is 61 seconds cold, 35 seconds hot. Rotor inertia is 7.36 Lb-Ft Sq (0.31 Kg-meter Sq).

Open Circuit A-C: 0.291

Short Circuit D-C: 0.009

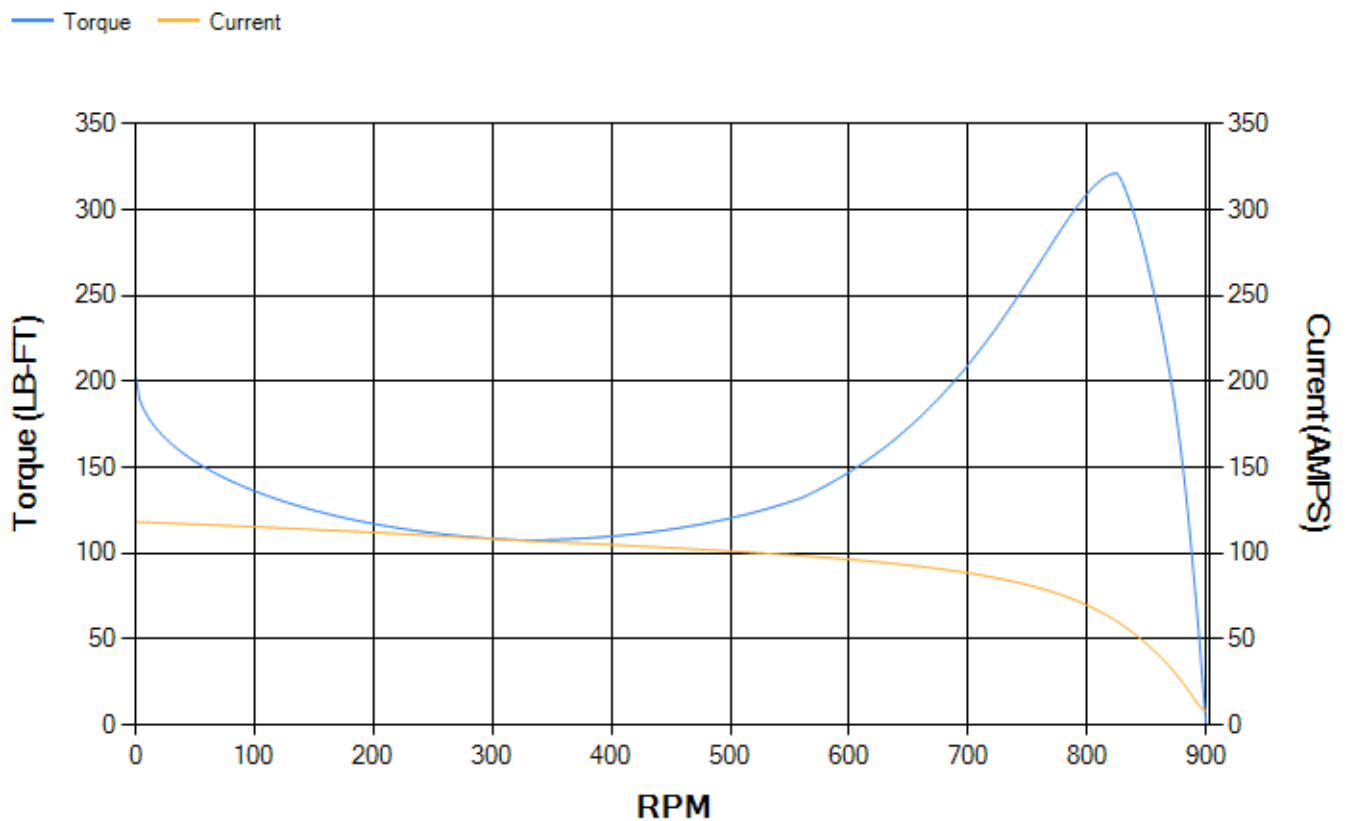
Short Circuit A-C: 0.019

X/R Ratio: 3.51

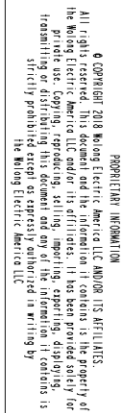
Stator Slots: 54

Rotor Slots: 70

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: FI ASSEMBLY AS SHOWN.
NOTE 3: ALL DIMENSIONS ARE IN INCHES, BRACKETED DIMENSIONS ARE IN METRIC (MILLIMETERS).



AP5943	REV 000	SHEET 1	REVISIONS		
REV.		DESCRIPTION	DATE	APPROVED	

SIGNATURES		DATE
MODEL	RAGHU	02/18/21
DETAIL	RAGHU	02/18/21
CHECKED	RAGHU	02/18/21
EMERG	RAGHU	02/18/21
W/E		
QUALITY		
ISSUED	RAGHU	02/18/21
SOLID MODEL : 4002B5828PAP5943		



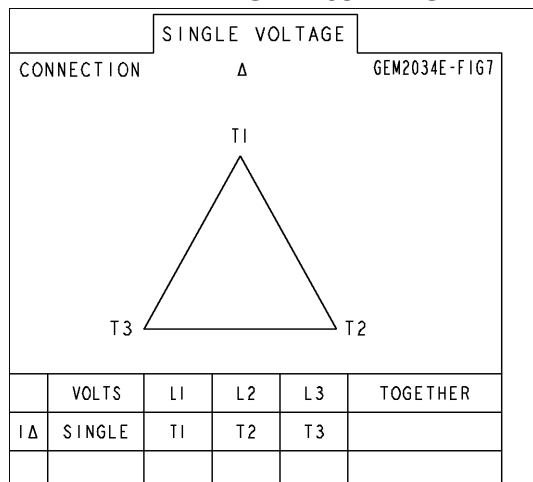
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INDUCTION MOTOR LINE

284/286 T, TFC XSD

C/BOX 137 CULN. GROUND PAD

SIZE DRAWING		REV
B	4002B5828PAP5943	000
SCALE : 0.250 REF. No. : 4002B5828PAP5311		SHEET 1 of 1

Marks:**Connection Diagram****GEM2034E-FIG7**

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	

