



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:	5KS143SAA140D
Catalog Number:	M9171
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG1
Outline Drawing:	4002B5814PAP5425

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: 5KS143SAA140D
Outline Drawing: 4002B5814PAP5425
Connection Diagram: GEM2034E-FIG1
Instruction Book: GEI-56128
Design Code: 14BD0044A
Type: KS
Frame: 143T
Phases: 3
Poles: 2
Output Power: 1HP 0.7KW
RPM: 3475
Voltage: 460
Hertz: 60
Amps - FL: 1.5
Service Factor: 1.15
Alt Service Factor: --

Estimated Weight: 43 Lbs
Time Rating: CONT
Enclosure: TEFC
Encl Construction: 841
Ambient Max(°C): 40
Alt Ambient Max(°C): --
Insulation Class: H
NEMA Design: --
Nominal Efficiency: 80.0 %
Guaranteed Efficiency: 78.5 %
3/4 Load Efficiency: --
KVA Code: N
Max KVAR: 0.4
Power Factor: 80.5
Bearing - DE: 6205ZC3
Bearing - ODE: 6205ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

IEEE-STD-841-2009
 DE BRG 25BC02JP30 ODE BRG 25BC02JP30
 STAMP NP249A5564P051 AS BELOW:
 MODEL:5KS143SAA140D 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 30-75 HZ.



Additional Information:

2P - T EXTN
STANDARD FLOOR MOUNT
C/BOX 30 CU IN-0.75 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: 14BD0044A**Marks:**

LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	80.25	80.59	81	80.05	76.68	65.67	0.00
% PF	84.24	83.07	84.38	74.47	63.37	44.18	17.24
AMPS	1.73	1.61	1.35	1.18	0.96	0.81	0.61

TORQ(FL)#FT 1.49
AMPS(LR) 9.82

TORQ(LR)%FL 245.08
PF AT START 0.56

TORQ(BD)%FL 354.31

This motor is capable of two cold or one hot start with a maximum connected load inertia of 10 Lb-Ft Sq (0.42 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 39 seconds. Safe stall time at 100% voltage is 87 seconds cold, 66 seconds hot. Rotor inertia is 0.03 Lb-Ft Sq (0 Kg-meter Sq).

Open Circuit A-C: 0.235

Short Circuit D-C: 0.005

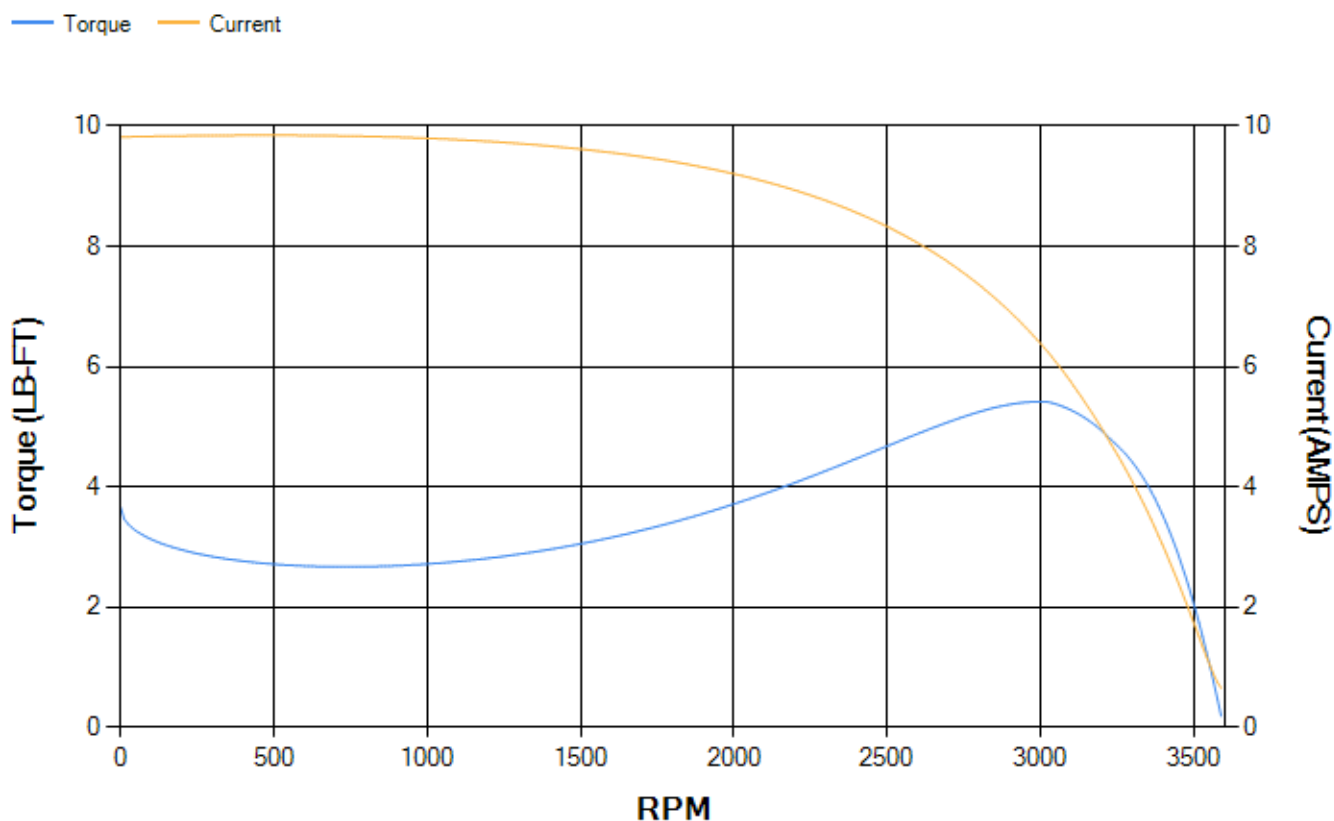
Short Circuit A-C: 0.011

X/R Ratio: 1.835

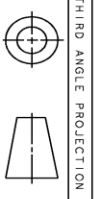
Stator Slots: 24

Rotor Slots: 34

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 DIMENTIONS ARE IN INCHES AND BRACKETED DIMENSIONS ARE IN METRIC [mm].



		SIZE DRAWING NO.		4002B5814AP5425	
0		B		0	
REV		SHEET		0	
PROJECT INFORMATION					
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REVIEWS					
REV.		DESCRIPTION		DATE	
APPROVED					

SIGNATURES	DATE
MODEL	DHEERAB 18 (02/21)
REF. TITLE	DHEERAB 18 (02/21)
CHECKED	DHEERAB 18 (02/21)
DESIGN	
WFG	
QUALITY	
ISSUED	DHEERAB 18 (02/21)
SOL ID MODEL: 4002B5814PAP5425	



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INDUCTION MOTOR OUTLINE

STANDARD CONSTRUCTION, GND PAD

FR 43/45 T 1EFC XSD

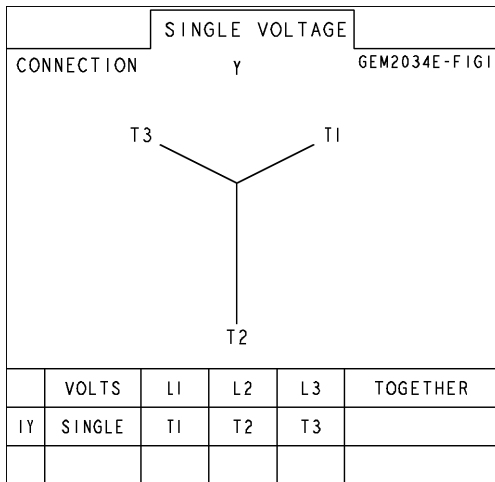
SIZE DRAWING

4002B5814PAP5425

REV

SCALE: 0.500 REF. No.: 4002B5814PAP5425

SHEET 1 of 1

Marks:**Connection Diagram****GEM2034E-FIG1**

End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	4004D5280PB1	4004D5280SG1
Bearing	235A2500AF01	235A2500AF01
Slinger/Inproseal	149C4399G15	149C4399G15

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	4001A5914AM-G01
Fan Cover	4003C5785PA1

Conduit & Accessories Box Assembly	
Part Description	Part#
Conduit Box	4002B5718PA-G01

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

