



GE INDUSTRIAL MOTORS
a **WOLONG** company

Product Technical Information

March 7, 2021

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

Model Number:	5KS145SAA408D
Catalog Number:	M9170
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: 5KS145SAA408D
Outline Drawing: 4002B5814PAP5425
Connection Diagram: GEM2034E-FIG1
Instruction Book: GEI-56128
Design Code: 14BD4008AA
Type: KS
Frame: 145T
Phases: 3
Poles: 8
Output Power: 0.75HP 0.6KW
RPM: 840
Voltage: 460
Hertz: 60
Amps - FL: 1.8
Service Factor: 1.15
Alt Service Factor: --

Estimated Weight: 50 Lbs
Time Rating: CONT
Enclosure: TEFC
Encl Construction: 841
Ambient Max(°C): 40
Alt Ambient Max(°C): --
Insulation Class: H
NEMA Design: --
Nominal Efficiency: 70.0 %
Guaranteed Efficiency: 68.0 %
3/4 Load Efficiency: --
KVA Code: P
Max KVAR: 0.9
Power Factor: 55.0
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:5KS145SAA408D 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 200 C VT OR 200 C CT OR 200 C CHP PWM CONTROL
 ALTERNATE RATING FOR PWM CONTROL 1.0SF 40C AMB
 VT 0 - 60 HZ, CT 3-60 HZ, CHP 60-90 HZ.



Additional Information:

8P - 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: 14BD4008AA**Marks:**

LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	72.59	73.5	74.54	74.07	70.42	58.16	0.00
% PF	62.08	59.44	56.81	45.88	34.96	22.52	8.78
AMPS	1.95	1.85	1.68	1.55	1.43	1.34	1.26

TORQ(FL)#FT 4.65
AMPS(LR) 5.98

TORQ(LR)%FL 227.61
PF AT START 0.57

TORQ(BD)%FL 274.57

This motor is capable of two cold or one hot start with a maximum connected load inertia of 277 Lb-Ft Sq (11.66 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 82 seconds. Safe stall time at 100% voltage is 183 seconds cold, 120 seconds hot. Rotor inertia is 0.11 Lb-Ft Sq (0 Kg-meter Sq).

Open Circuit A-C: 0.047

Short Circuit D-C: 0.006

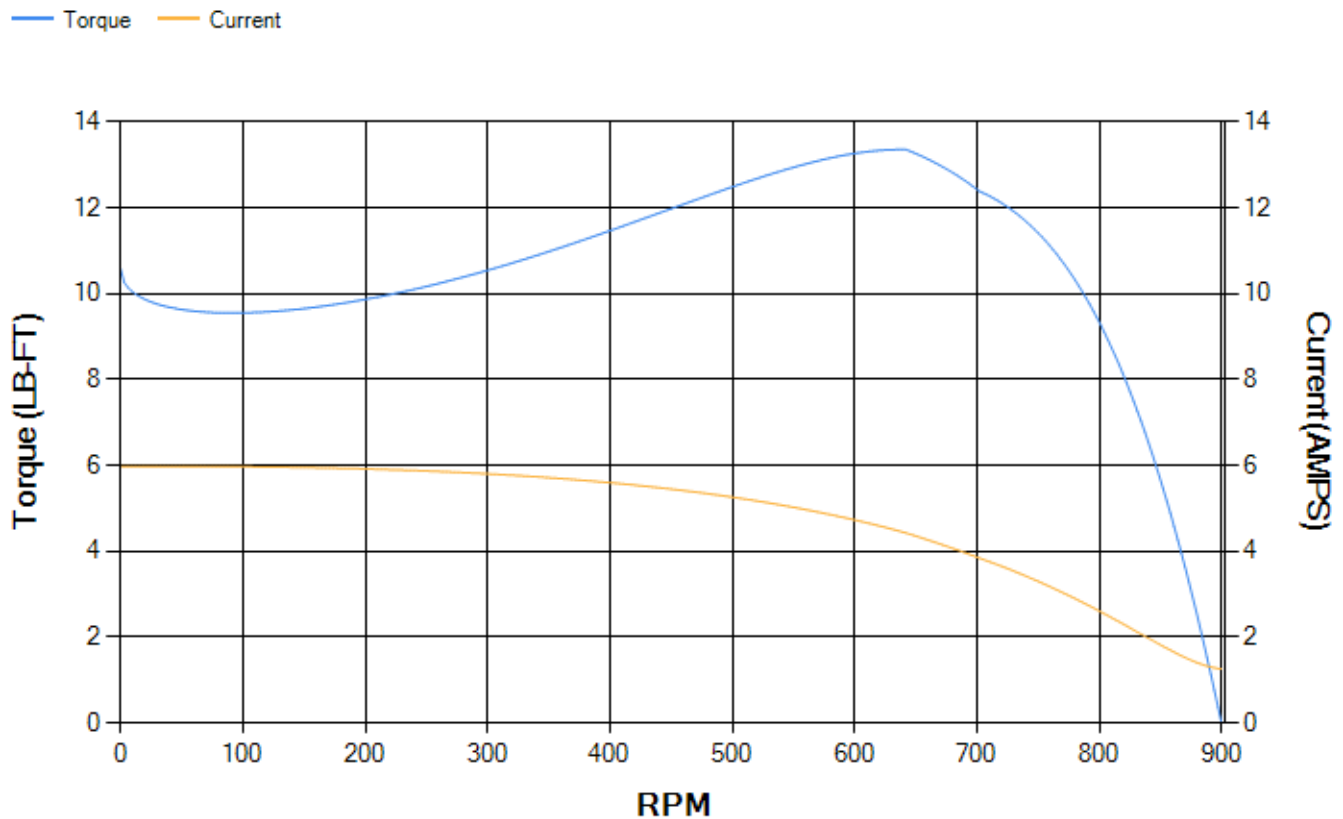
Short Circuit A-C: 0.007

X/R Ratio: 2.251

Stator Slots: 36

Rotor Slots: 48

Speed Torque Current Curve (First Connection, First Speed)



SIGNATURES	DATE
MODEL	
DETAIL	DHEERABJ 18/02/21
CHECKED	DHEERABJ 18/02/21
ENGRG	
WRG	
QUALITY	
ISSUED	DHEERABJ 18/02/21
SOLID MODEL: 4002B5814PAP5425	



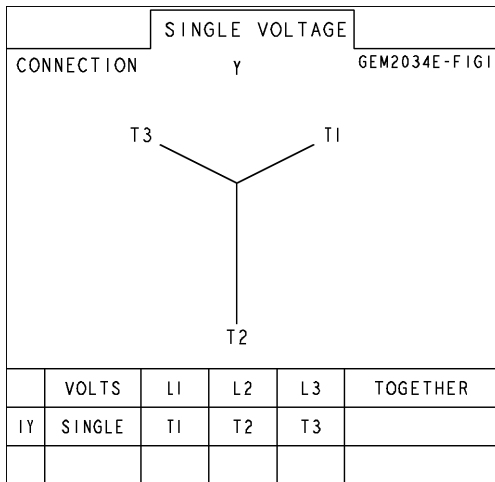
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INDUCTION MOTOR OUTLINE

STANDARD CONSTRUCTION, GND PAD

FR. 43/45 T 1TEC XSD

SIZE/ DRAWING		REV
B	4002B5814PAP5425	0
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	

