



GE INDUSTRIAL MOTORS
a **WOLONG** company

Product Technical Information

June 24, 2020

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

Model Number:	5KS256XAA198C
Catalog Number:	M9513
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG7
Outline Drawing:	4002B5825PDP5459

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:	5KS256XAA198C	Estimated Weight:	350 Lbs
Outline Drawing:	4002B5825PDP5459	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG7	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	841
Design Code:	25BD0065A	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	256TC	Insulation Class:	H
Phases:	3	NEMA Design:	B
Poles:	2	Nominal Efficiency:	91 %
Output Power:	20HP 14.8KW	Guaranteed Efficiency:	90.2 %
RPM:	3540	3/4 Load Efficiency:	92.6 %
Voltage:	460	KVA Code:	G
Hertz:	60	Max KVAR:	2.3
Amps - FL:	22.6	Power Factor:	91.0
Service Factor:	1.15	Bearing - DE:	6310ZC3
Alt Service Factor:	--	Bearing - ODE:	6309ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

IEEE-STD-841-2009
 DE BRG 50BC03JP30 ODE BRG 45BC03JP30
 STAMP NP249A5564P051 AS BELOW:
 MODEL:5KS256XAA198C 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 -25C <= AMB <= 40C, 1.0 SF ON SINE-WAVE PWR
 SURF TEMP 300C 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 15-60HZ, CHP 60-90HZ.



Additional Information:

2P - T EXTN
C/BOX 137 CU IN-1.25 NPT
"C" FACE AT DE ENDSHIELD ROUND FRAME
VERTICAL MOUNT SHAFT DOWN WITH DRIPCOVER
PAINTED FRAME ID & SHAFT,
FAN COVER INSIDE & ODE E/S OUTSIDE
ROUTINE AND 5 POINT VIBRATION TESTS INCL IN C/BOX
INPRO SEAL BOTH ENDS
E/SHLD GROUND STUD MTD ON DE C/BOX SIDE NEAR FOOT
ROTATE D.E. E/SHIELD 90 DEG. PER OUTLINE
SHAFT RUNOUT LIMIT .001" TIR
COPPER WASHER UNDER HEADS OF BEARING CAP BOLTS
APPLY TITE-SEAL (A50CD427A) ON BEARING CAP SCREWS, RABBETS,
AND PLUG THREADS
OIL RESISTANT SLEEVING ON LEADS



Performance Characteristics

1st Winding 1st Connection

Design: 25BD0065A

Marks:

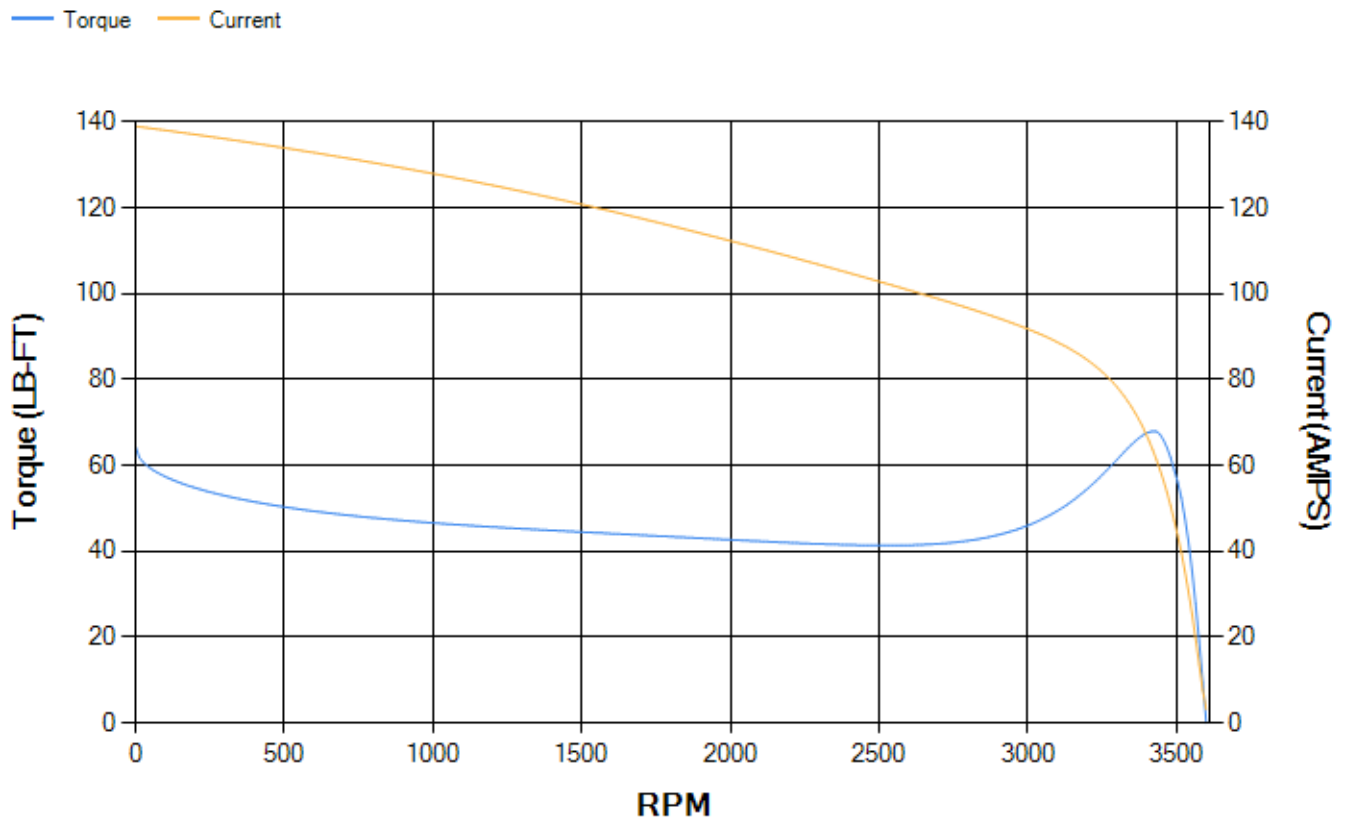
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	89.26	90.15	91.45	92.55	93.01	91.04	0.00
% PF	88.86	89.88	90.97	91.68	90.29	81.18	11.53
AMPS	29.5	26.57	22.5	16.54	11.15	6.33	3.19

TORQ(FL)#FT	29.65	TORQ(LR)%FL	217.26	TORQ(BD)%FL	228.28
AMPS(LR)	139.04	PF AT START	0.33		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 143 Lb-Ft Sq (6.02 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 44 seconds. Safe stall time at 100% voltage is 94 seconds cold, 55 seconds hot. Rotor inertia is 1.88 Lb-Ft Sq (0.08 Kg-meter Sq).

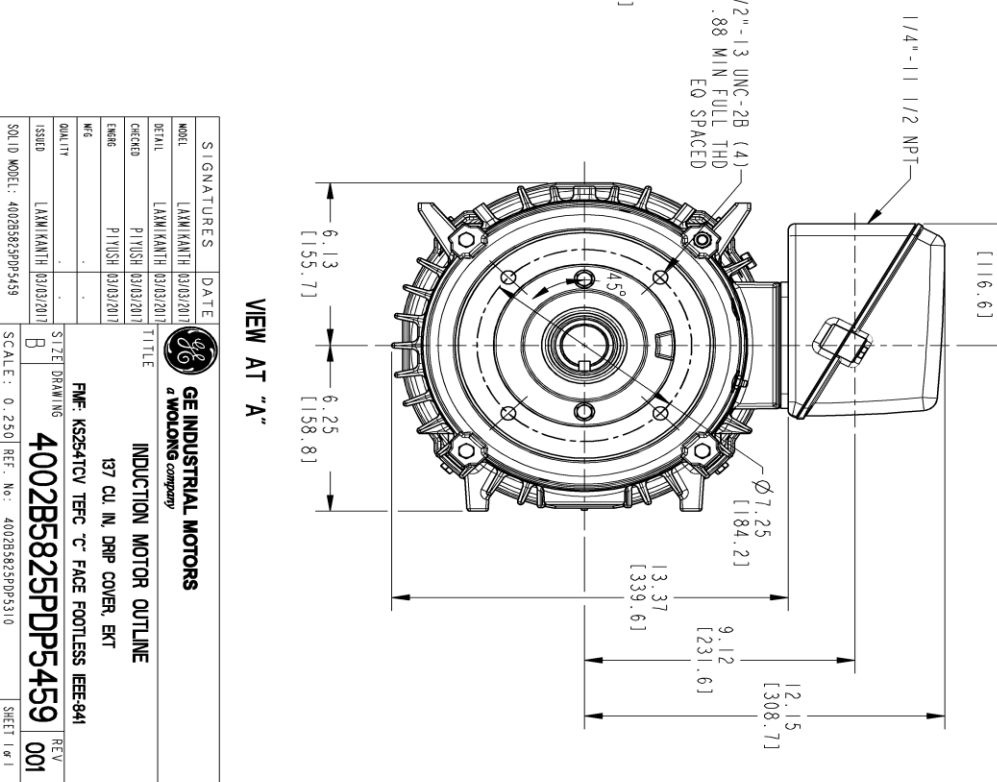
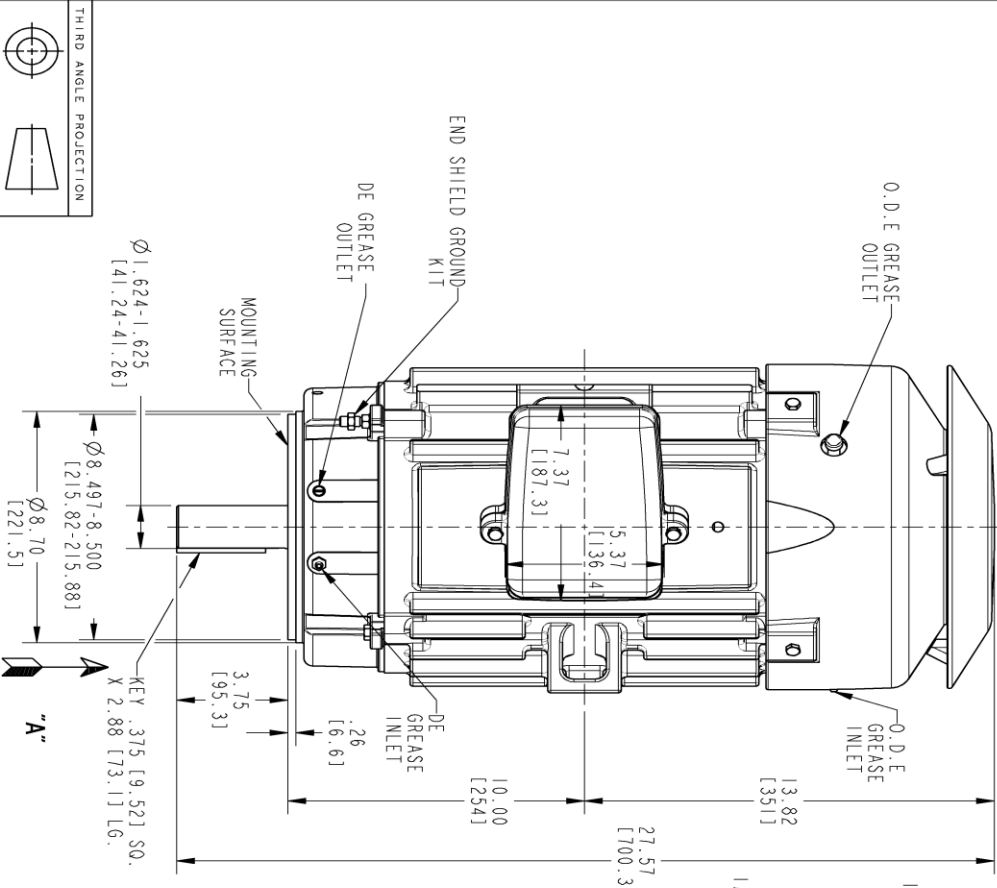
Open Circuit A-C:	1.246	Short Circuit D-C:	0.013
Short Circuit A-C:	0.028	X/R Ratio:	4.894
Stator Slots:	36	Rotor Slots:	26

Speed Torque Current Curve (First Connection, First Speed)



Marks:

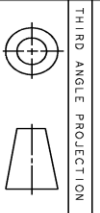
NOTE 1: CONDUIT BOX MAY BE ASSEMBLED WITH ENTRANCE UP, DOWN OR TO EITHER SIDE.
 NOTE 2: F1 ASSEMBLY AS SHOWN. F2 ASSEMBLY CONDUIT BOX ON OPPOSITE SIDE FROM SHOWN LOCATION.
 NOTE 3: MOUNTING SURFACES TO BE SQUARE AND CONCENTRIC WITH SHAFT WITHIN .004 T.I.R.
 NOTE 4: SHAFT RUNOUT WILL NOT EXCEED .001 T.I.R.
 NOTE 5: DE ENDSHIELD ROTATED 90° COUNTER CLOCKWISE
 NOTE 6: ALL DIMENSIONS ARE IN INCHES, BRACKETED DIMENSIONS ARE IN METRIC (MILLIMETERS)



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REV.	DESCRIPTION	DATE	APPROVED
1	ISAC# 18-0869	11/05/18	PRASHANTH

SIGNATURES		DATE	
MODEL: LAKMIKANTH	03/03/2017		
DETAIL: LAKMIKANTH	03/03/2017		
ORDER: PIVUSH	03/03/2017		
ENGR: PIVUSH	03/03/2017		
TITLE			
INDUCTION MOTOR OUTLINE		INDUCTION MOTOR OUTLINE	
137 CL IN. DRP COVER, EXT		137 CL IN. DRP COVER, EXT	
REV: K5254TCV TFC 'C' FACE FOOTLESS IEEB-94			
QUALITY: LAKMIKANTH 03/03/2017			
ISSUED: LAKMIKANTH 03/03/2017			
SOLID MODEL: 4002B5825PDP5459			
SCALE: 0.250		REV: B	SHEET 1 of 1



Marks:

Connection Diagram
GEM2034E-FIG7



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	128D6106RF1	4004D5283SE1
Bearing	235A2508EC01	235A2507EB01
Slinger/Inproseal	4002B5914GF4	4002B5914AG4

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	159C6704G02
Fan Cover	4003C5525BN-G01

Conduit & Accessories Box Assembly	
Part Description	Part#
Conduit Box	4002B5728PA-G04

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

