



**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.

<b>Model Number:</b>	<b>5KS256XAA2041C</b>
<b>Catalog Number:</b>	<b>M9515</b>
<b>Instruction Manual:</b>	GEI-56128
<b>Connection Diagram:</b>	GEM2034E-FIG1
<b>Outline Drawing:</b>	4002B5825PDP5459

Accessory Connection Diagrams			
<b>Bearing Thermocouple:</b>	None	<b>Heater:</b>	None
<b>RTD:</b>	None	<b>Thermistor:</b>	None
<b>Thermostat:</b>	None	<b>Winding Thermocouple:</b>	None
<b>Bearing RTD:</b>	None		

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Marks:

<b>MODEL NUMBER:</b>	<b>5KS256XAA2041C</b>	<b>Estimated Weight:</b>	350 Lbs
<b>Outline Drawing:</b>	4002B5825PDP5459	<b>Time Rating:</b>	CONT
<b>Connection Diagram:</b>	GEM2034E-FIG1	<b>Enclosure:</b>	TEFC
<b>Instruction Book:</b>	GEI-56128	<b>Encl Construction:</b>	841
<b>Design Code:</b>	25BD1231A	<b>Ambient Max(°C):</b>	40
<b>Type:</b>	KS	<b>Alt Ambient Max(°C):</b>	--
<b>Frame:</b>	256TC	<b>Insulation Class:</b>	H
<b>Phases:</b>	3	<b>NEMA Design:</b>	B
<b>Poles:</b>	4	<b>Nominal Efficiency:</b>	93 %
<b>Output Power:</b>	20HP 14.8KW	<b>Guaranteed Efficiency:</b>	92.4 %
<b>RPM:</b>	1775	<b>3/4 Load Efficiency:</b>	93.9 %
<b>Voltage:</b>	460	<b>KVA Code:</b>	G
<b>Hertz:</b>	60	<b>Max KVAR:</b>	6.6
<b>Amps - FL:</b>	24.0	<b>Power Factor:</b>	84.0
<b>Service Factor:</b>	1.15	<b>Bearing - DE:</b>	6310ZC3
<b>Alt Service Factor:</b>	--	<b>Bearing - ODE:</b>	6309ZC3

Enclosure is Totally Enclosed Fan-Cooled

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Stamped Nameplate Notes:

IEEE-STD-841-2009  
 DE BRG 50BC03JP30 ODE BRG 45BC03JP30  
 STAMP NP249A5564P051 AS BELOW:  
 MODEL:5KS256XAA2041C 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 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 6-60HZ, CHP 60-90HZ.



**Additional Information:**

4P - 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: 25BD1231A**

**Marks:**

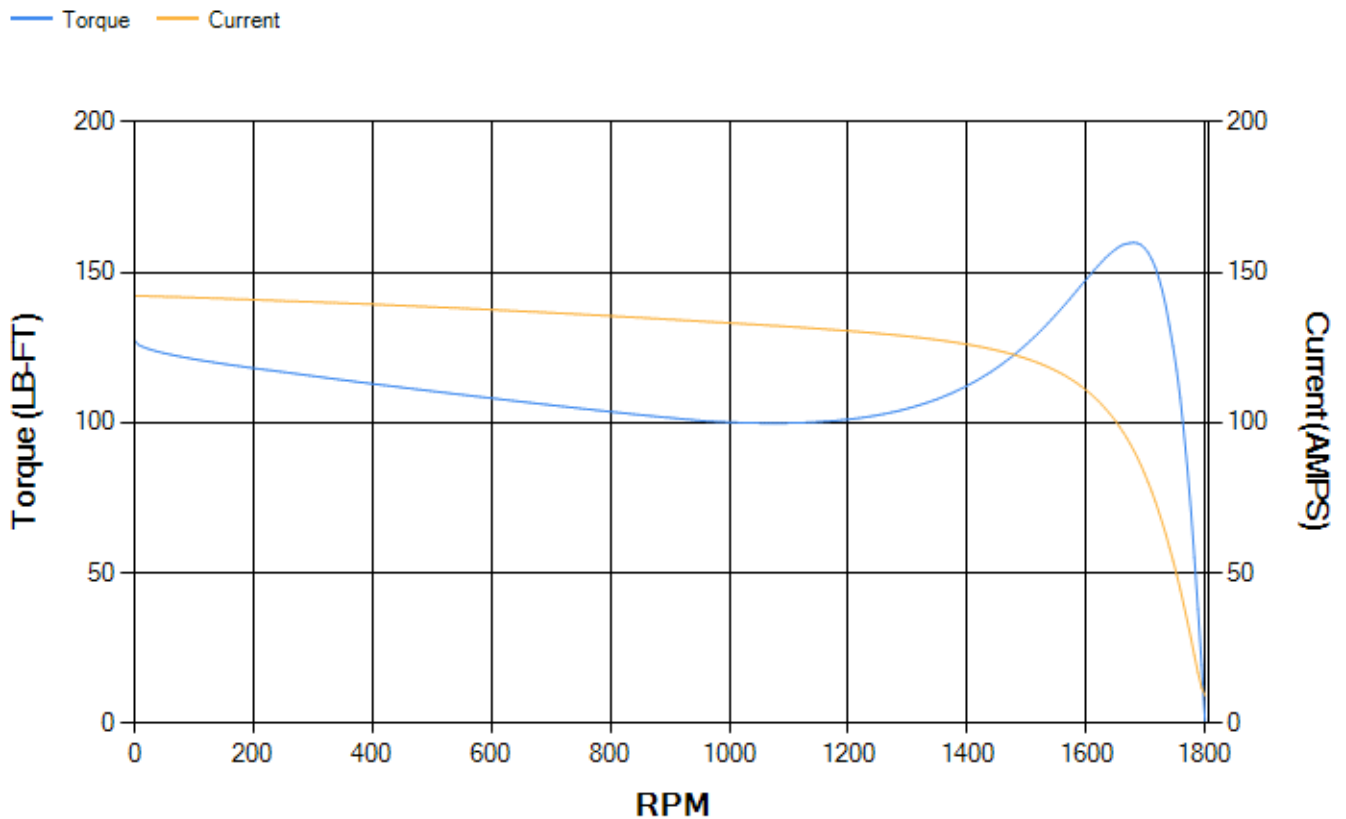
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	92.54	92.92	93.59	93.87	93.62	90.86	0.00
% PF	85.7	85.21	83.96	79.72	70.03	47.68	4.28
AMPS	29.5	27.19	23.82	18.76	14.27	10.8	9.18

<b>TORQ(FL)#FT</b>	59.15	<b>TORQ(LR)%FL</b>	215.43	<b>TORQ(BD)%FL</b>	269.28
<b>AMPS(LR)</b>	142.25	<b>PF AT START</b>	0.45		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 726 Lb-Ft Sq (30.56 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 45 seconds. Safe stall time at 100% voltage is 98 seconds cold, 64 seconds hot. Rotor inertia is 3.01 Lb-Ft Sq (0.13 Kg-meter Sq).

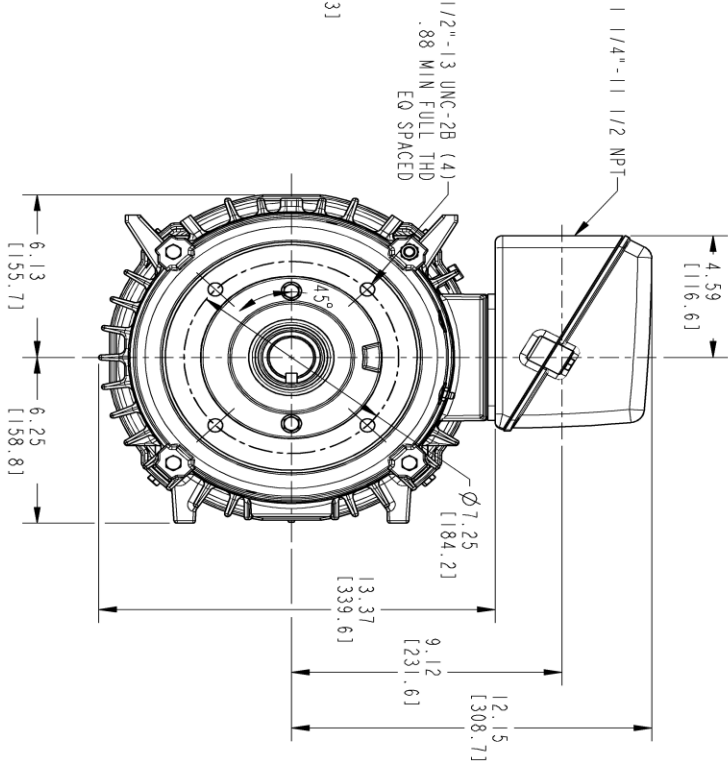
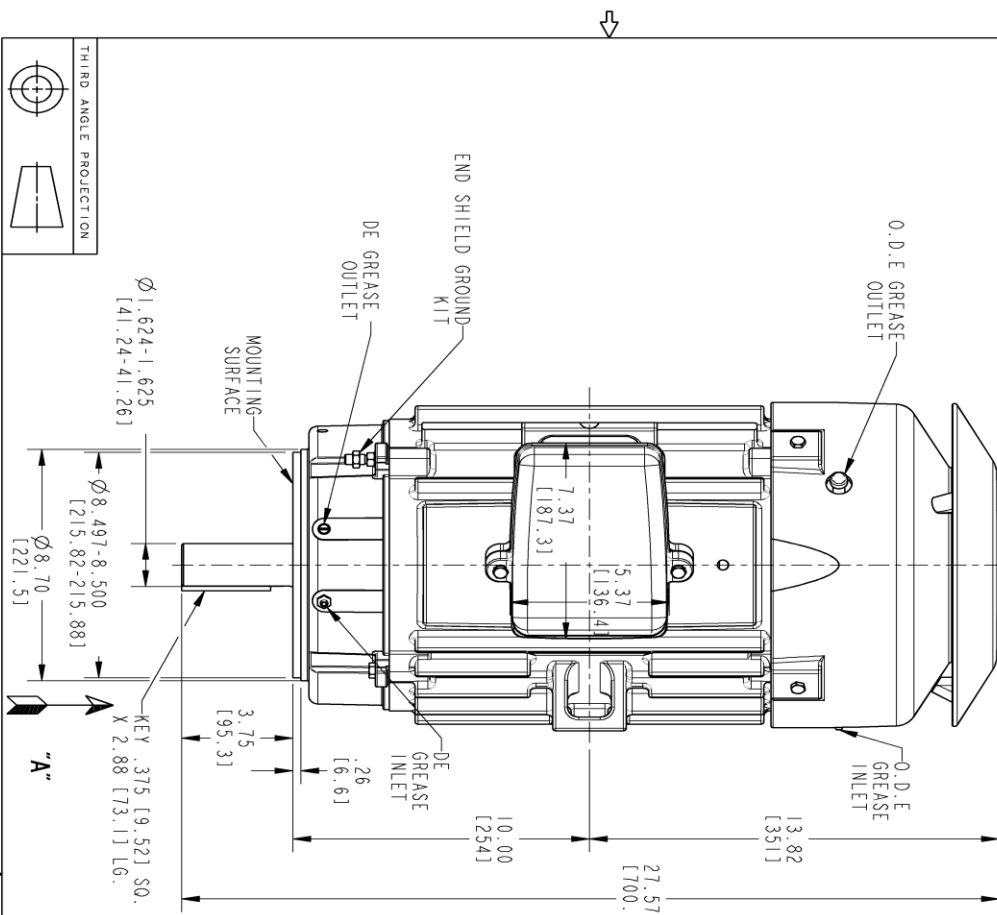
<b>Open Circuit A-C:</b>	0.48	<b>Short Circuit D-C:</b>	0.014
<b>Short Circuit A-C:</b>	0.024	<b>X/R Ratio:</b>	5.314
<b>Stator Slots:</b>	48	<b>Rotor Slots:</b>	40

**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: 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)

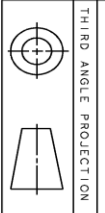


VIEW AT "A"

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

SIGNATURES	DATE	<p><b>GE INDUSTRIAL MOTORS</b>                  a Wolog company</p>
MODEL	03/03/2017	
DETAIL	03/03/2017	
CREATED	03/03/2017	
DATE	03/03/2017	TITLE
ENG	03/03/2017	INDUCTION MOTOR OUTLINE
ISSUED	03/03/2017	137 CU. IN. DRP COVER, EXT
SOLID MODEL	4002B5825PDP5459	SCALE: 0.250
		REF. No.: 4002B5825PDP5310
		REV
		001



**Marks:**

**Connection Diagram**  
**GEM2034E-FIG1**



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	159C6700G02
Fan Cover	4003C5525BN-G01

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

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

