



**GE INDUSTRIAL MOTORS**  
a **WOLONG** company

# Product Technical Information

November 26, 2020

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

<b>Model Number:</b>	<b>5KS254SAE6057A</b>
<b>Catalog Number:</b>	<b>V4029</b>
<b>Instruction Manual:</b>	GEK-95351
<b>Connection Diagram:</b>	GEM2034E-FIG9
<b>Outline Drawing:</b>	4002B5825PSP5317

## Accessory Connection Diagrams

<b>Bearing Thermocouple:</b>	None	<b>Heater:</b>	3027JE-1C
<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:

**MODEL NUMBER:** 5KS254SAE6057A  
**Outline Drawing:** 4002B5825PSP5317  
**Connection Diagram:** GEM2034E-FIG9  
**Instruction Book:** GEK-95351  
**Design Code:** 25BD1162A  
**Type:** KS  
**Frame:** L254TP10  
**Phases:** 3  
**Poles:** 4  
**Output Power:** 15HP 11.1KW  
**RPM:** 1775  
**Voltage:** 230/460  
**Hertz:** 60  
**Amps - FL:** 37.8/18.9  
**Service Factor:** 1.15  
**Alt Service Factor:** 1.00

**Estimated Weight:** 315 Lbs  
**Time Rating:** CONT  
**Enclosure:** TEFC  
**Encl Construction:** SD  
**Ambient Max(°C):** 40  
**Alt Ambient Max(°C):** 65  
**Insulation Class:** H  
**NEMA Design:** B  
**Nominal Efficiency:** 92.4 %  
**Guaranteed Efficiency:** 91.0 %  
**3/4 Load Efficiency:** --  
**KVA Code:** G  
**Max KVAR:** 6.1  
**Power Factor:** 80.5  
**Bearing - DE:** 7309  
**Bearing - ODE:** 6209-2ZC3

**Enclosure is Totally Enclosed Fan-Cooled**

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**Stamped Nameplate Notes:**

PREMIUM EFFICIENT MOTOR  
 ROT CCW FACING ODE LEAD/PH SEQUENCE 1-2-3/1-2-3  
 HTR LDS HE1-HE2 115V 60W  
 SEVERE DUTY  
 INVERTER DUTY PER NEMA MG1 PART 31  
 ALTERNATE RATING FOR PWM CONTROL:  
 1.0 SF VAR TORQUE RANGE 5-60 HZ  
 50HZ DATA:10 HP 190/380 V WITH FLA-31.6/15.8 A



**Additional Information:**

4P - TP EXTN  
C/BOX 137 CU IN-1.25 NPT  
HEATER LEADS EXIT WITH MOTOR LEADS  
E/SHLD GROUND STUD MTD ON DE C/BOX SIDE  
RCF 5000 CPM, STATIC DEFLECTION .0014 INCHES &  
CENTER OF GRAVITY 10.75 INCHES  
HOLLOW SHAFT HIGH THRUST  
NON REV CPLG W/BX=1.00" KW=0.25"  
OIL RESISTANT SLEEVING ON LEADS  
BEARING LIFE 8760 HOURS AT 2574 LB THRUST



**Performance Characteristics**

1st Winding 1st Connection

**Design: 25BD1162A**

**Marks:**

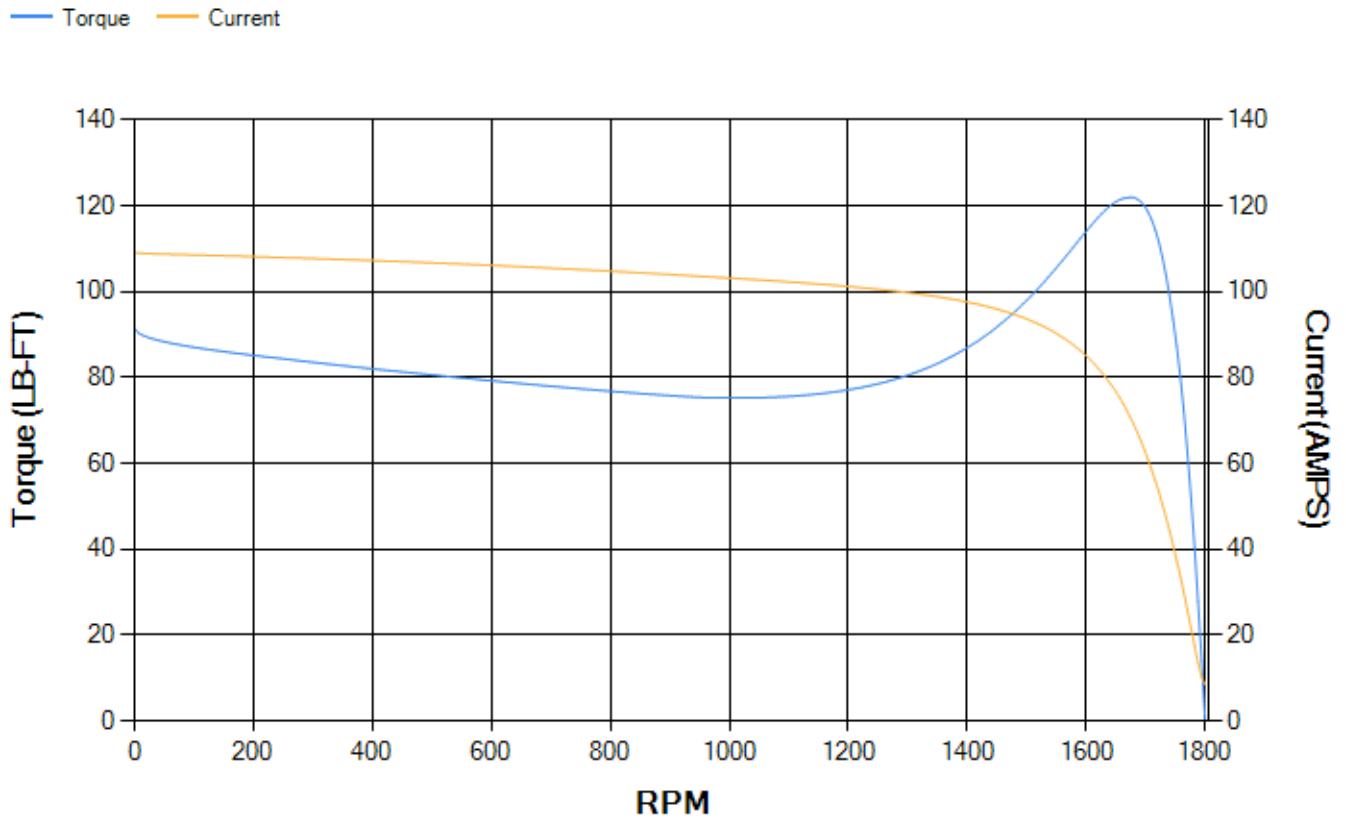
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	91.42	91.81	92.48	92.68	92.17	88.49	0.00
% PF	83.36	82.54	80.7	75.12	63.77	41.34	4.49
AMPS	23.03	21.3	18.81	15.12	11.94	9.6	8.55

<b>TORQ(FL)#FT</b>	44.38	<b>TORQ(LR)%FL</b>	206.19	<b>TORQ(BD)%FL</b>	273.88
<b>AMPS(LR)</b>	109.14	<b>PF AT START</b>	0.46		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 457 Lb-Ft Sq (19.24 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 38 seconds. Safe stall time at 100% voltage is 85 seconds cold, 54 seconds hot. Rotor inertia is 1.97 Lb-Ft Sq (0.08 Kg-meter Sq).

<b>Open Circuit A-C:</b>	0.386	<b>Short Circuit D-C:</b>	0.012
<b>Short Circuit A-C:</b>	0.023	<b>X/R Ratio:</b>	4.434
<b>Stator Slots:</b>	48	<b>Rotor Slots:</b>	40

**Speed Torque Current Curve (First Connection, First Speed)**





Marks:

**Connection Diagram**  
**GEM2034E-FIG9**



**Heater Connection**  
**3027JE-1C**



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	128D6129PA1	128D6131PA1
Bearing	235A2507AC01	235A2507EE01
Slinger/Inproseal	235A2300FL3	

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	
Fan Cover	4003C5525AD-G01

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

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

