



GE INDUSTRIAL MOTORS
a **WOLONG** company

Product Technical Information

December 5, 2020

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

Model Number:	5KS284SAE6054A
Catalog Number:	V4031
Instruction Manual:	GEK-95351
Connection Diagram:	GEM2034E-FIG9
Outline Drawing:	4002B5828PSP5335

Accessory Connection Diagrams

Bearing Thermocouple:	None	Heater:	3027JE-1C
RTD:	None	Thermistor:	None
Thermostat:	None	Winding Thermocouple:	None
Bearing RTD:	None		

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Marks:

MODEL NUMBER:	5KS284SAE6054A
Outline Drawing:	4002B5828PSP5335
Connection Diagram:	GEM2034E-FIG9
Instruction Book:	GEK-95351
Design Code:	28BD1162A
Type:	KS
Frame:	L284TP16
Phases:	3
Poles:	4
Output Power:	25HP 18.5KW
RPM:	1780
Voltage:	230/460
Hertz:	60
Amps - FL:	58.2/29.1
Service Factor:	1.15
Alt Service Factor:	1.00

Estimated Weight:	460 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:	93.6 %
Guaranteed Efficiency:	92.4 %
3/4 Load Efficiency:	--
KVA Code:	G
Max KVAR:	7.0
Power Factor:	86.0
Bearing - DE:	7310
Bearing - ODE:	6210-2ZC3

Enclosure is Totally Enclosed Fan-Cooled

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



Additional Information:

4P - TP EXTN
C/BOX 137 CU IN-1.50 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 12.00 INCHES
HOLLOW SHAFT HIGH THRUST
NON REV CPLG W/BX=1.00" KW=0.25"
OIL RESISTANT SLEEVING ON LEADS
BEARING LIFE 8617 HOURS AT 2976 LB THRUST
BEARING LIFE 8760 HOURS AT 2959 LB THRUST



Performance Characteristics

1st Winding 1st Connection

Design: 28BD1162A

Marks:

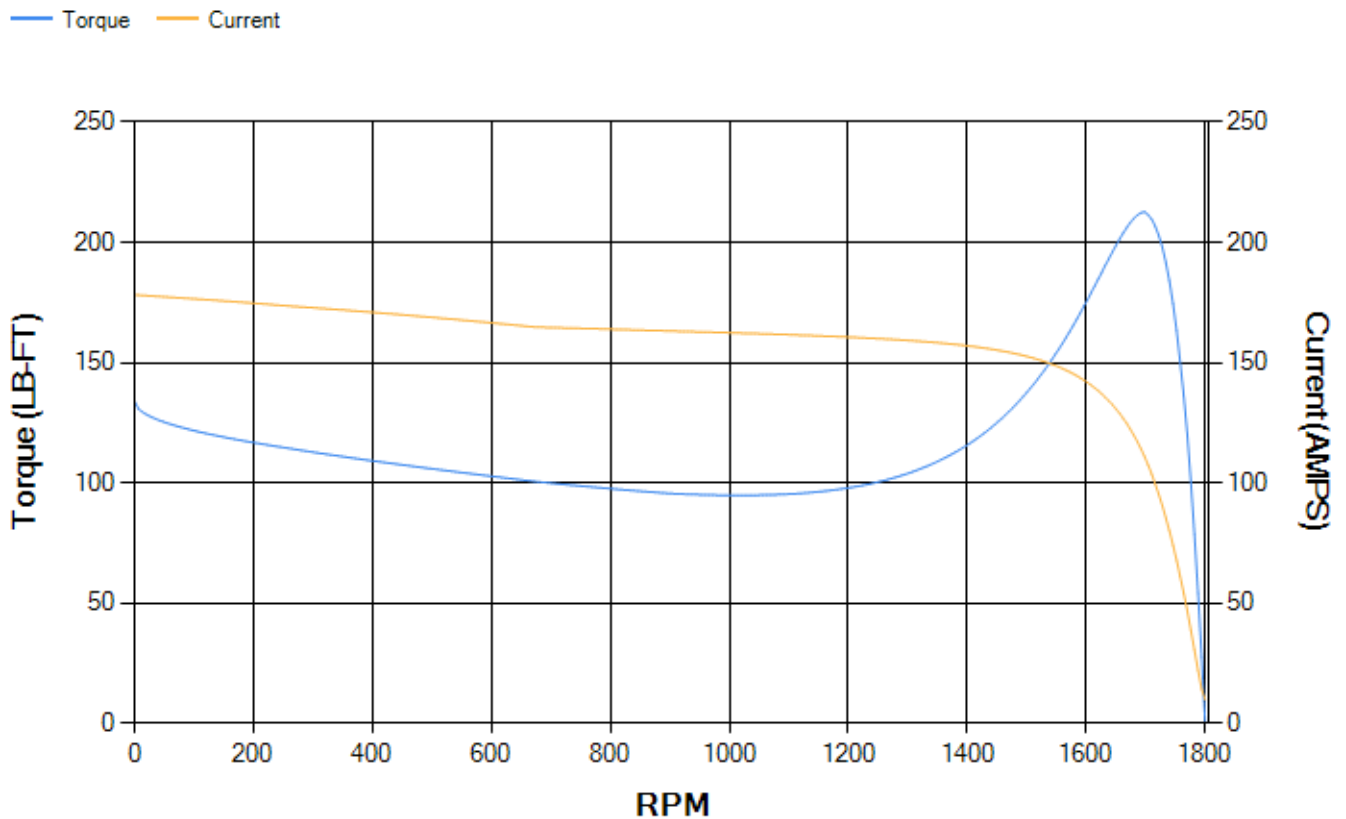
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	92.51	92.93	93.67	94.08	94.02	91.68	0.00
% PF	86.95	86.71	85.9	82.65	74.39	52.87	4.42
AMPS	36.36	33.39	29.06	22.57	16.73	12.07	9.81

TORQ(FL)#FT	73.83	TORQ(LR)%FL	181.27	TORQ(BD)%FL	286.95
AMPS(LR)	178.14	PF AT START	0.38		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 887 Lb-Ft Sq (37.34 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 56 seconds. Safe stall time at 100% voltage is 100 seconds cold, 67 seconds hot. Rotor inertia is 4.88 Lb-Ft Sq (0.21 Kg-meter Sq).

Open Circuit A-C:	0.626	Short Circuit D-C:	0.016
Short Circuit A-C:	0.028	X/R Ratio:	5.887
Stator Slots:	48	Rotor Slots:	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	128D6234AA1	128D6232PB1
Bearing	235A2508ET01	235A2508AK01
Slinger/Inproseal	235A2300FL2	

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	
Fan Cover	4003C5528AE-G01

Conduit & Accessories Box Assembly	
Part Description	Part#
Conduit Box	4002B5728PA-G01

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

