

Product Information Packet

January 13, 2017

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

Model Number:	5KS184SAE228A
Catalog Number:	V981
Instruction Manual:	GEK-95655
Connection Diagram:	GEM2034E-FIG3
Outline Drawing:	4002B5818PLP5210

Accessory Connection Diagrams

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

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imagination at work

Marks:

MODEL NUMBER:	5KS184SAE228A	Estimated Weight:	101 Lbs
Outline Drawing:	4002B5818PLP5210	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG3	Enclosure:	TEFC
Instruction Book:	GEK-95655	Encl Construction:	SD
Design Code:	18BD1001A	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	L184HP10	Insulation Class:	H
Phases:	3	NEMA Design:	B
Poles:	4	Nominal Efficiency:	89.5 %
Output Power:	5HP 3.7KW	Guaranteed Efficiency:	87.5
RPM:	1755	3/4 Load Efficiency:	90.4
Voltage:	230/460	KVA Code:	J
Hertz:	60	Max KVAR:	2.0
Amps - FL:	13.2/6.6	Power Factor:	79.5
Service Factor:	1.15	Bearing - DE:	6307ZC3
Alt Service Factor:	--	Bearing - ODE:	6206-2ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

PREMIUM EFFICIENT MOTOR
HTR LDS H 115V 45W
SEVERE DUTY
INVERTER DUTY PER NEMA MG1 PART 31
ALTERNATE RATING FOR PWM CONTROL:
1.0 SF VAR TORQUE RANGE 0-60 HZ
IP 55
SUITABLE FOR 190/380V 50 HZ WITH
15.4/7.7 AMPS AND 1430 RPM AT 1.0 S.F

Additional Information:

4P - HP EXTN
C/BOX 30 CU IN-0.75 NPT
AUX LEADS EXIT WITH MOTOR LEADS
RCF 5000 CPM, STATIC DEFLECTION .0014 INCHES &
CENTER OF GRAVITY 6.5 INCHES
SOLID SHAFT NORMAL THRUST
OIL RESISTANT SLEEVING ON LEADS
BEARING LIFE 8760 HOURS AT 652 LB THRUST



Performance Characteristics

1st Winding 1st Connection

Design: 18BD1001A**Marks:**

LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	88.12	88.78	89.81	90.44	90.1	85.98	0.00
% PF	81.6	80.98	80.8	74.23	63.37	41.66	5.79
AMPS	8.14	7.49	6.45	5.23	4.1	3.27	2.74

TORQ(FL)#FT 14.97
AMPS(LR) 41.06

TORQ(LR)%FL 228.66
PF AT START 0.51

TORQ(BD)%FL 298.67

This motor is capable of two cold or one hot start with a maximum connected load inertia of 183 Lb-Ft Sq (7.7 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 36 seconds. Safe stall time at 100% voltage is 79 seconds cold, 51 seconds hot. Rotor inertia is 0.35 Lb-Ft Sq (0.01 Kg-meter Sq).

Open Circuit A-C: 0.237

Short Circuit D-C: 0.008

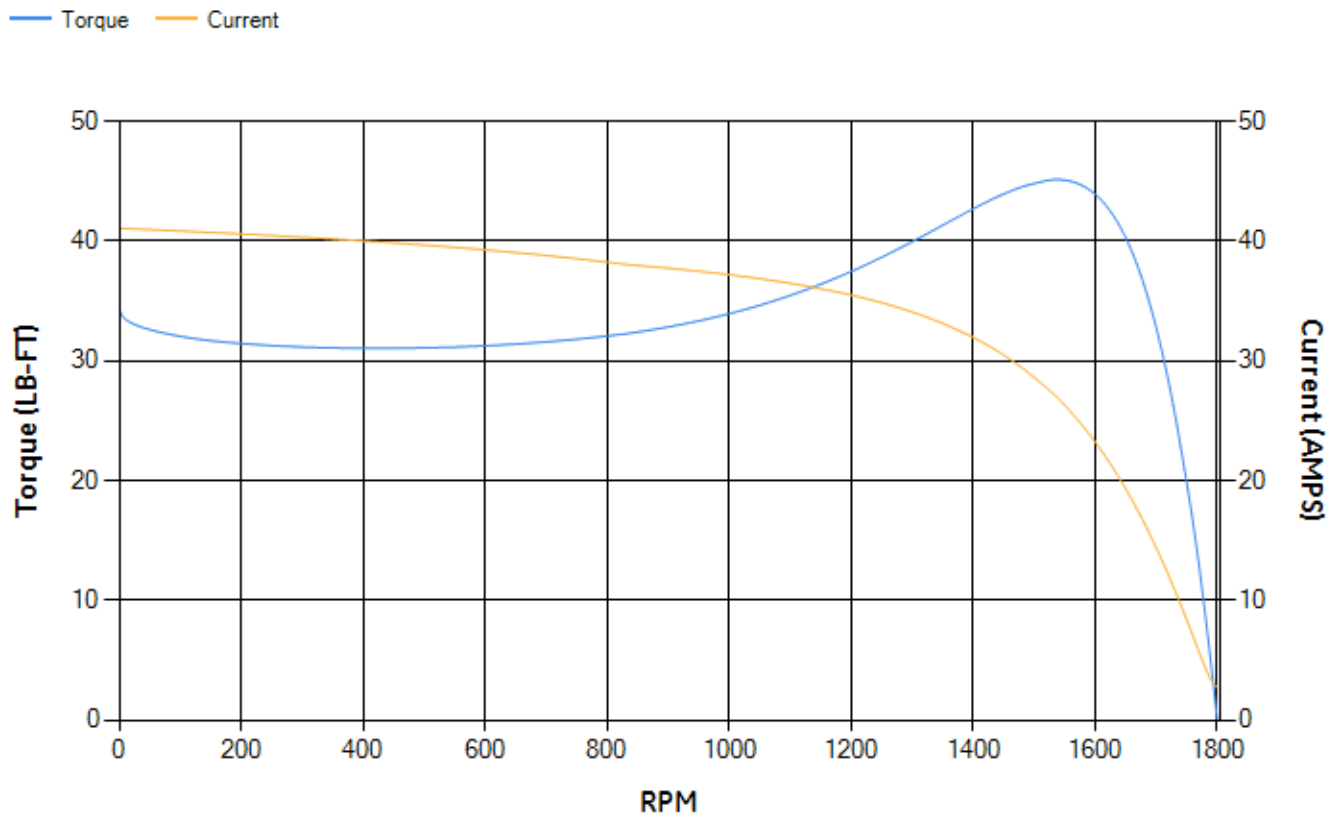
Short Circuit A-C: 0.012

X/R Ratio: 3.151

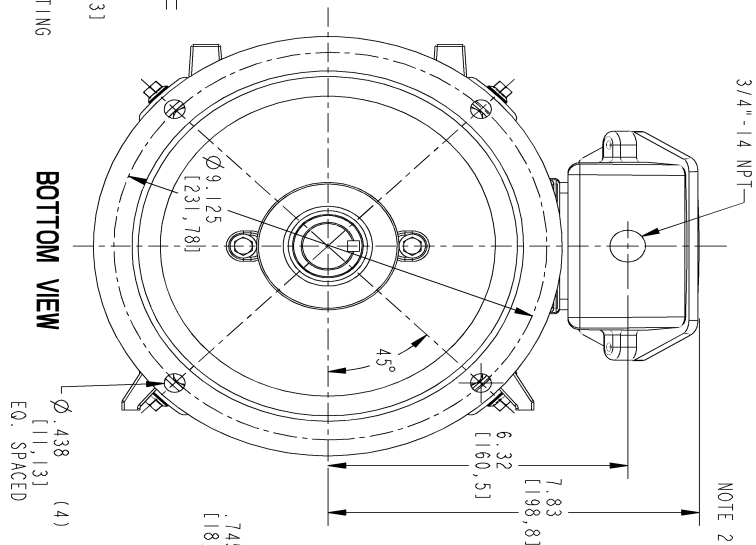
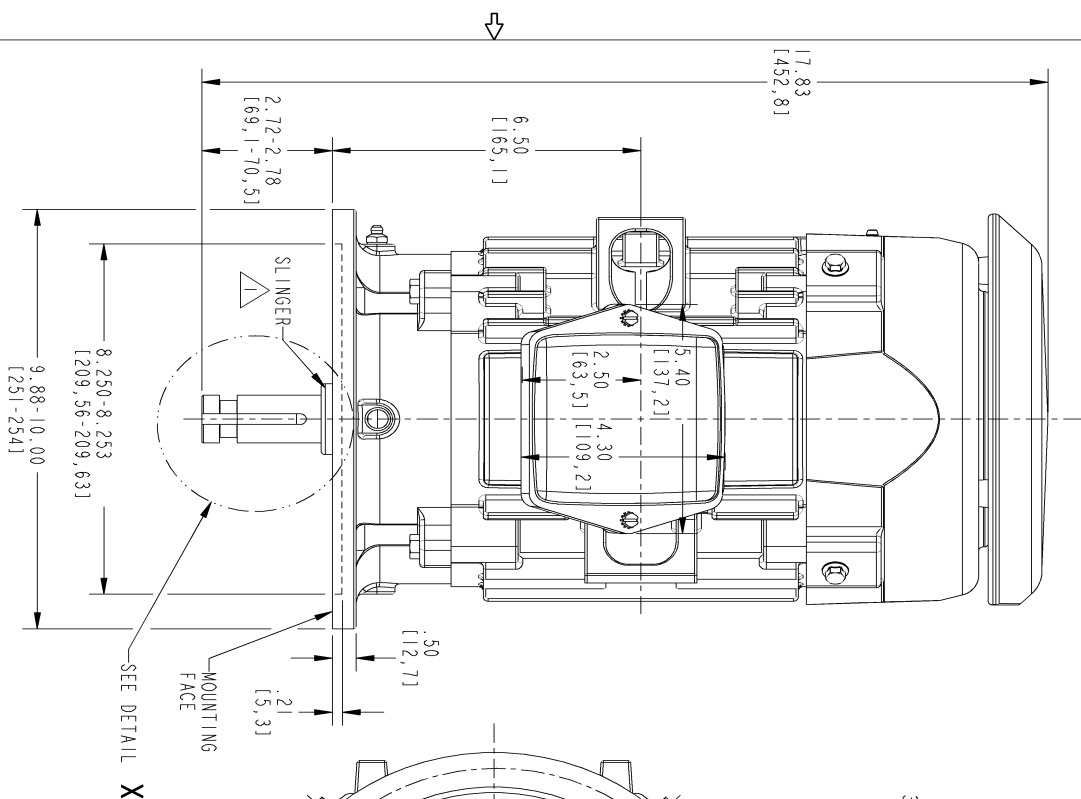
Stator Slots: 36

Rotor Slots: 28

Speed Torque Current Curve (First Connection, First Speed)

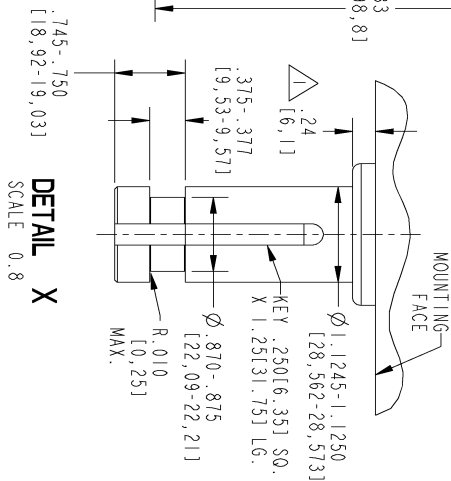


Marks:




NOTE 1: CONDUIT BOX MAY BE ASSEMBLED WITH ENTRANCE UP, DOWN OR TO EITHER SIDE.

NOTE 2: ALL DIMENSIONS ARE IN INCHES, BRACKETED DIMENSIONS ARE IN METRIC (MILLIMETERS).



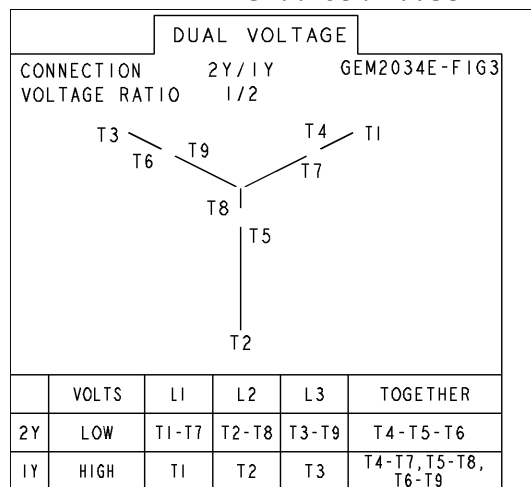
SH	REV	REVISIONS			
	3				
REV.	DESCRIPTION	DATE	APPROVED		
1	DIMENSION .24 ADDED	04/21/04	SHIVA		
2	ISAAC #12-0695	07/04/12	VJAY		
3	ISAAC #12-1164	12/12/12	HARIKIRAN		

SIGNATURES	DATE	 GE Industrial Systems GENERAL ELECTRIC COMPANY Fort Wayne, Indiana
DRAWN	WRT 02/02	
CHECKED	WRT 01/02	
ENG'G		
ISSUED	WRT 02/02	
APPLIED PRACTICES		
SIZE DRAWING		
B		
SCALE: 0.4001 REF. NO: 4003C5618PLP210		
SHEET 1 OF 1		
DISTRIBUTION:		PMP-18K

DISTRIBUTION:	PMP-18K15
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Marks:

Connection Diagram
GEM2034E-FIG3



Heater Connection

3027JE-1

FIG. 1
HEATER CONN.

