

Product Information Packet

January 13, 2017

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

Model Number:	5KS184SAE120C
Catalog Number:	V961
Instruction Manual:	GEK-95655
Connection Diagram:	GEM2034E-FIG3
Outline Drawing:	4002B5818PLP5210

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

Table of Contents

Specification	01
Performance Characteristics	02
Outline Drawing	03
Connection Drawing(s)	04
Spare parts	05



Marks:

MODEL NUMBER:	5KS184SAE120C	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:	18BD0103A	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	L184HP10	Insulation Class:	H
Phases:	3	NEMA Design:	B
Poles:	2	Nominal Efficiency:	88.5 %
Output Power:	5HP 3.7KW	Guaranteed Efficiency:	86.5
RPM:	3530	3/4 Load Efficiency:	89.3
Voltage:	230/460	KVA Code:	J
Hertz:	60	Max KVAR:	1.9
Amps - FL:	13.2/6.6	Power Factor:	80.5
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 HE1-HE2 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
15.2/7.6 AMPS AND 2880 RPM AT 1.0 SF

Additional Information:

2P - HP EXTN
C/BOX 30 CU IN-0.75 NPT
SPACE HEATER 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 522 LB THRUST

Performance Characteristics

1st Winding 1st Connection

Design: 18BD0103A

Marks:

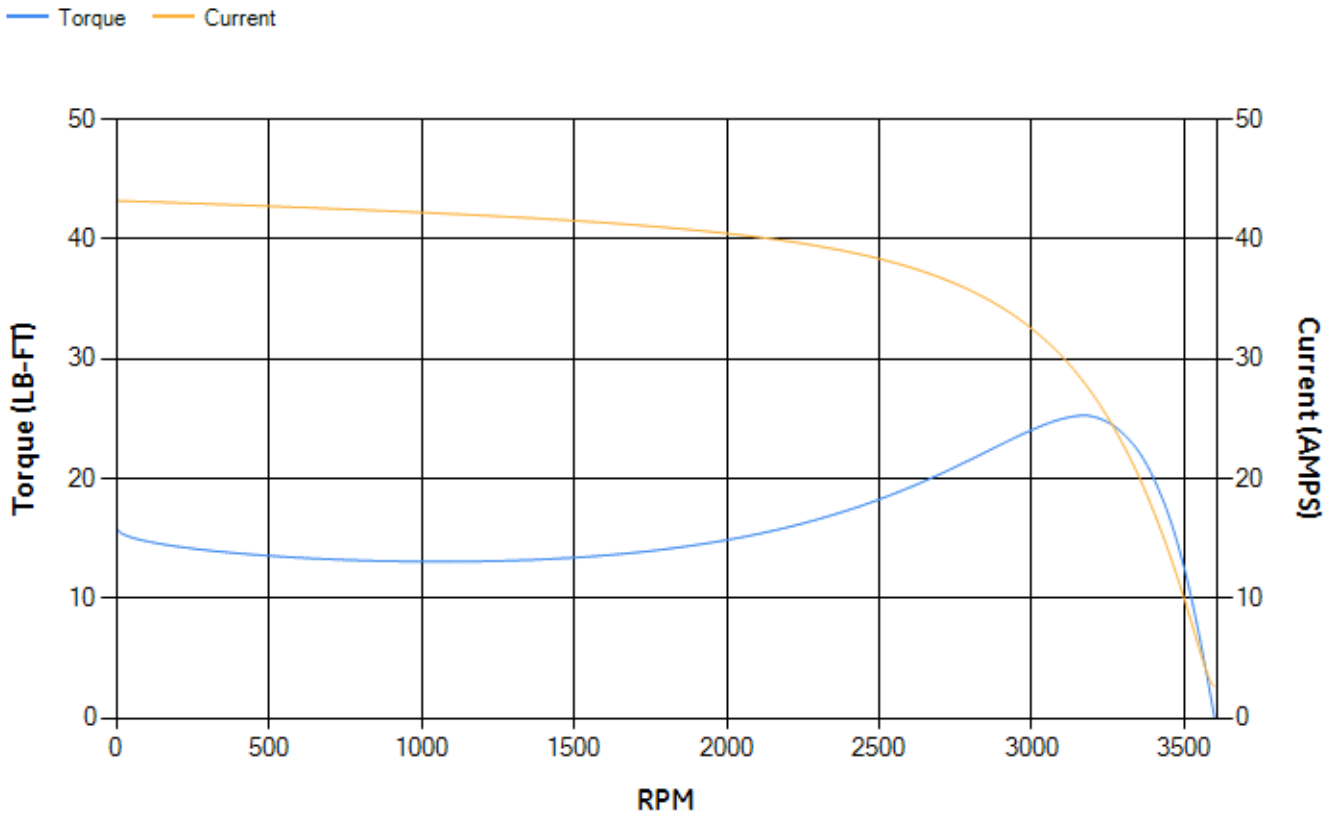
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	88.58	88.92	89.48	89.29	87.84	81.49	0.00
% PF	83.43	82.52	84.25	74.86	63.69	42.37	9.05
AMPS	7.92	7.33	6.21	5.25	4.18	3.39	2.61

TORQ(FL)#FT	7.44	TORQ(LR)%FL	213.31	TORQ(BD)%FL	337.03
AMPS(LR)	43.21	PF AT START	0.4		

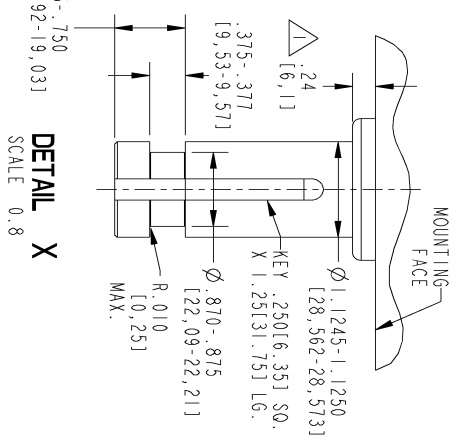
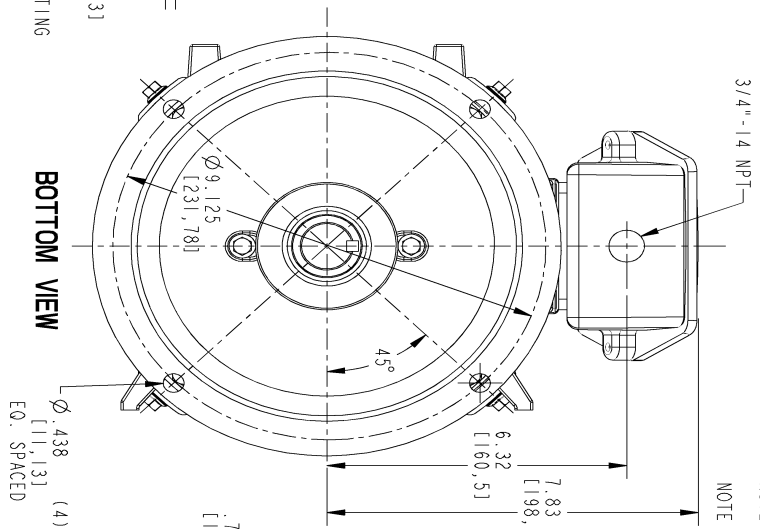
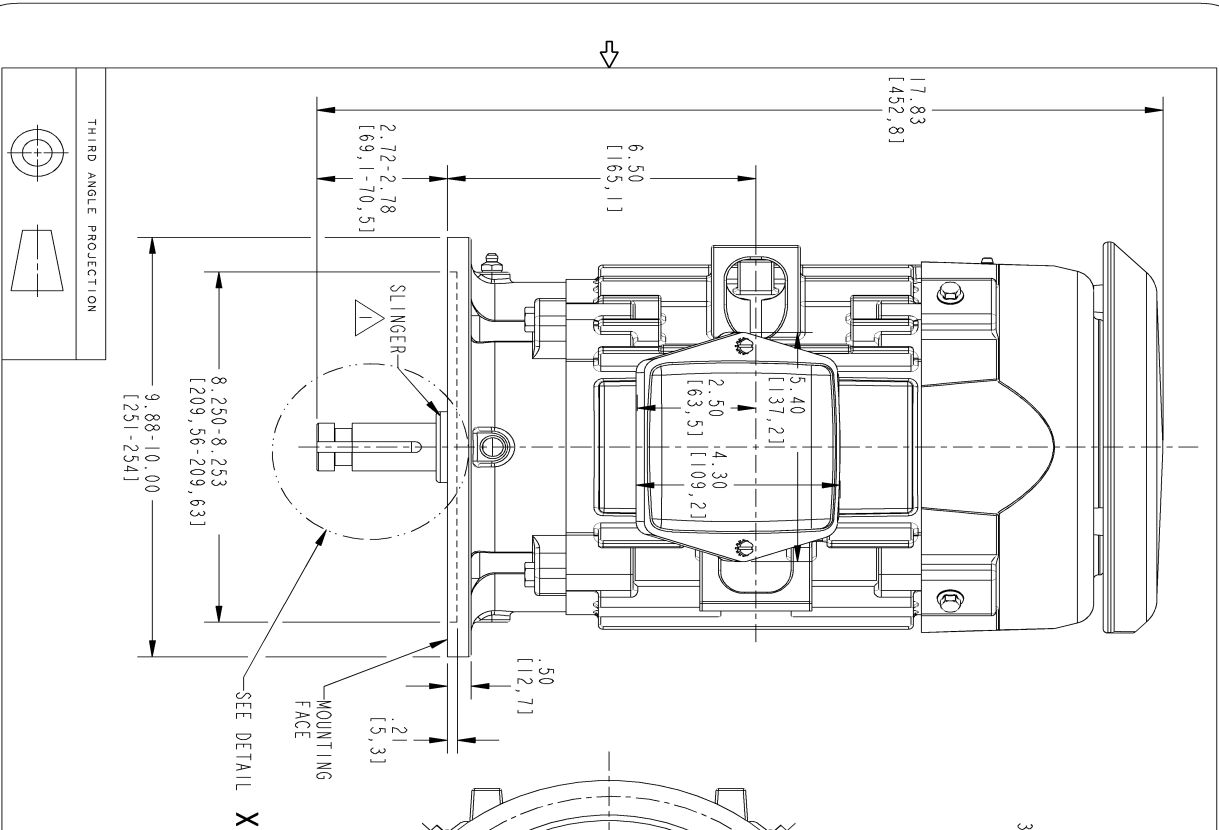
This motor is capable of two cold or one hot start with a maximum connected load inertia of 45 Lb-Ft Sq (1.89 Kg-meter Sq) at 100% voltage, where the load torque varies with the square of the speed. Acceleration time with maximum inertia and the above load type is 38 seconds. Safe stall time at 100% voltage is 77 seconds cold, 56 seconds hot. Rotor inertia is 0.16 Lb-Ft Sq (0.01 Kg-meter Sq).

Open Circuit A-C:	0.305	Short Circuit D-C:	0.01
Short Circuit A-C:	0.017	X/R Ratio:	3.956
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).

SIZE B DRAWING NO. 4002B5818PLP5210

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

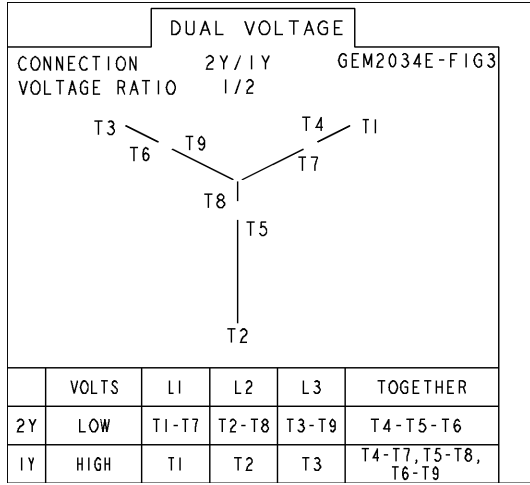
SIGNATURES	DATE
DRAWN: GARY WARRNER	APR 22/02
CHECKED: GARY WARRNER	MAR 01/02
ENGR: GARY WARRNER	MAR 02/02

GE Industrial Systems	GENERAL ELECTRIC COMPANY
Fort Wayne, Indiana	
INDUCTION MOTOR OUTLINE	
SOLID SHAFT - NORMAL THRUST	
FIVE-FLYBHP VERTICAL "P" BASE DIA 10.0"	
SIZE DRAWING	REV.
B	3
SCALE: 0.400	REF. NO.: 4003C5618PLP210
SHEET 1 OF 1	

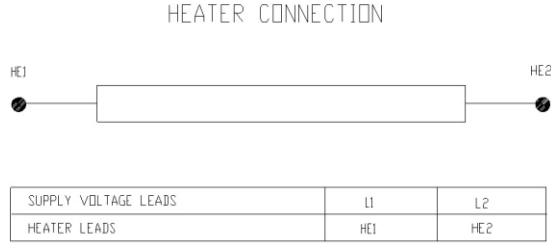
DISTRIBUTION: PMP-18K15

Marks:

Connection Diagram
GEM2034E-FIG3



Heater Connection
3027JE-1C



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	4004D5261PA1	4004D5281SY1
Bearing	235A2501AE01	235A2502AF01
Slinger/Inproseal	235A2300BE1	149C4399G16

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	346L620AP-G01
Fan Cover	4003C5518BN-G01

Conduit & Accessories Box Assembly	
Part Description	Part#
Conduit Box	4002B5718PA-G01

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	