

Product Information Packet

November 9, 2016

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

Model Number:	5KS184XAE5724C
Catalog Number:	V769
Instruction Manual:	GEK-95351
Connection Diagram:	GEM2034E-FIG1
Outline Drawing:	4002B5818PPP5325

Accessory Connection Diagrams			
Bearing Thermocouple:	None	Heater:	None
RTD:	None	Thermistor:	None
Thermostat:	None	Winding Thermocouple:	None
Bearing RTD:	None		

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Marks:

MODEL NUMBER:	5KS184XAE5724C	Estimated Weight:	101 Lbs
Outline Drawing:	4002B5818PPP5325	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG1	Enclosure:	TEFC
Instruction Book:	GEK-95351	Encl Construction:	841
Design Code:	18BD0103A	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	L184LP10	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:	460	KVA Code:	J
Hertz:	60	Max KVAR:	1.9
Amps - FL:	6.6	Power Factor:	80.5
Service Factor:	1.15	Bearing - DE:	5307
Alt Service Factor:	--	Bearing - ODE:	6206-2ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

VERTICAL-841
 PREMIUM EFFICIENT MOTOR
 DE BRG 5307 ODE BRG 30BC02JP3
 INLINE MOTOR
 EXCEPTION TO IEEE-STD-841-2009:THRUST BRG ON DE
 INVERTER DUTY PER NEMA MG1 PART 31
 ALTERNATE RATING FOR PWM CONTROL:
 1.0 SF VAR TORQUE RANGE 0-60 HZ
 MAX EXPOSED INTERNAL AND EXTERNAL SURFACE
 TEMPERATURES UNDER USUAL SERVICE CONDITIONS
 AT 1.00 S.F. DO NOT EXCEED 200 DEG C
 STAMP NP249A5499AP AS BELOW:
 MODEL:5KS184XAE5724C S/N: XXX
 EX NA IIC T3 GC CSA.09.2216219
 CLASS I, ZONE 2, AEX NA IIC T3
 CLASS I, DIV 2, GROUPS A, B, C, D T3
 -25C <= TAMB <= 40C

Additional Information:

2P - LP EXTN
 C/BOX 55 CU IN-1.00 NPT
 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
 BURNDY SERVIT POST ON FRAME
 SHAFT RUNOUT LIMIT .001" TIR

RCF 5000 CPM, STATIC DEFLECTION .0014 INCHES &
CENTER OF GRAVITY 6.5 INCHES
SOLID SHAFT INLINE
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
BEARING LIFE 26280 HOURS AT 698 LB THRUST

Performance Characteristics

1st Winding 1st Connection

Design: 18BD0103A

Marks:

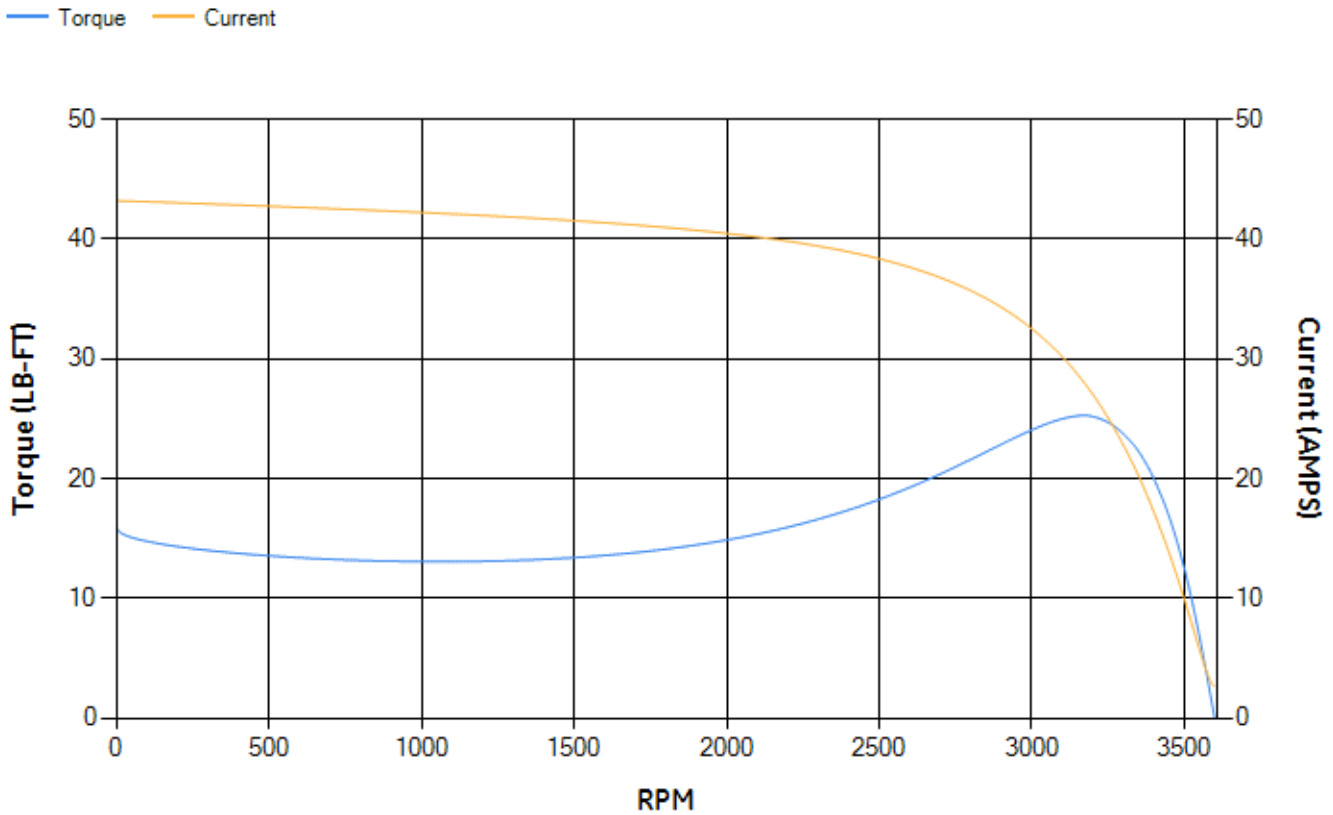
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	88.58	88.92	89.48	89.29	87.84	81.49	0.00
% PF	83.43	82.52	84.25	74.86	63.69	42.37	9.05
AMPS	7.92	7.33	6.21	5.25	4.18	3.39	2.61

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

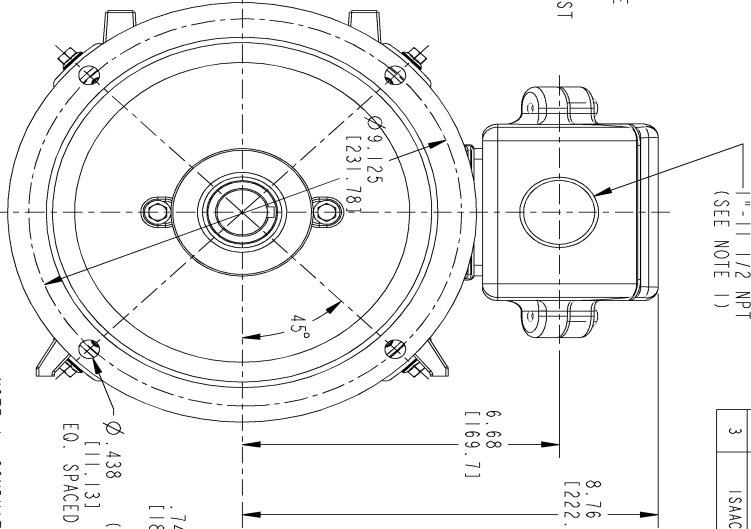
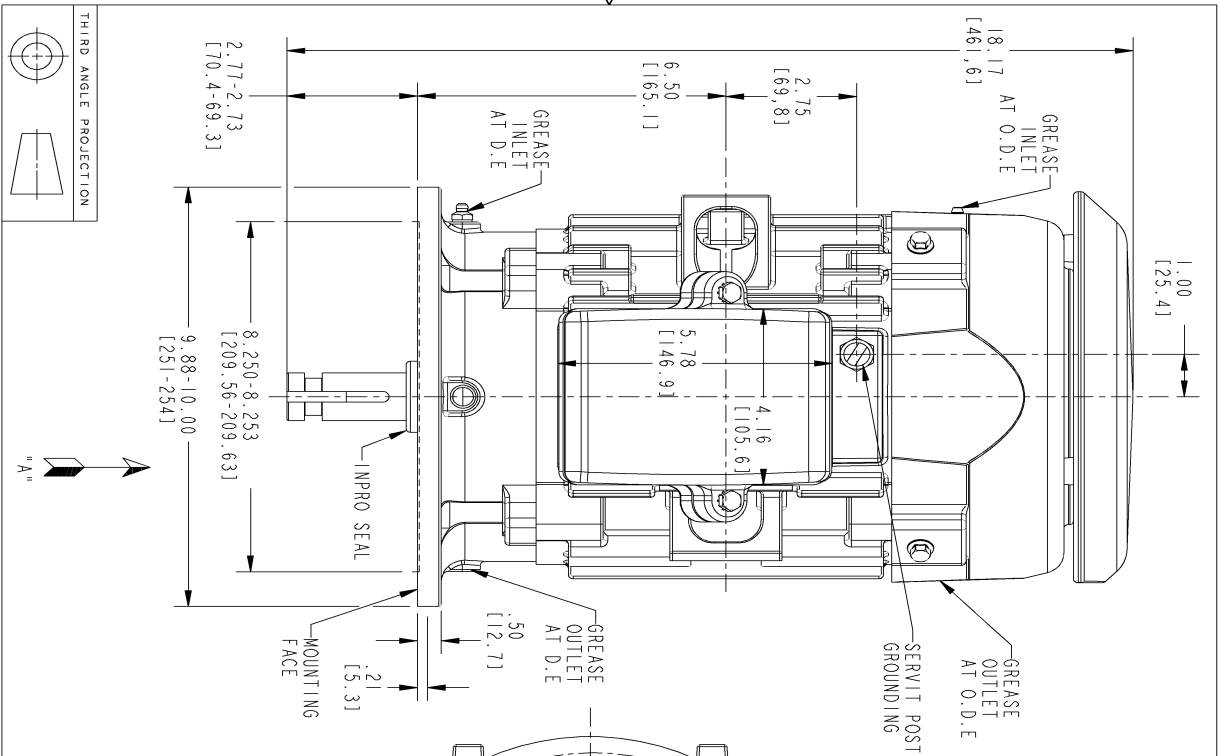
This motor is capable of two cold or one hot start with a maximum connected load inertia of 45 Lb-Ft Sq (1.89 Kg-meter Sq)at 100% voltage, where the load torque varies with the square of the speed. Acceleration time with maximum inertia and the above load type is 38 seconds. Safe stall time at 100% voltage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

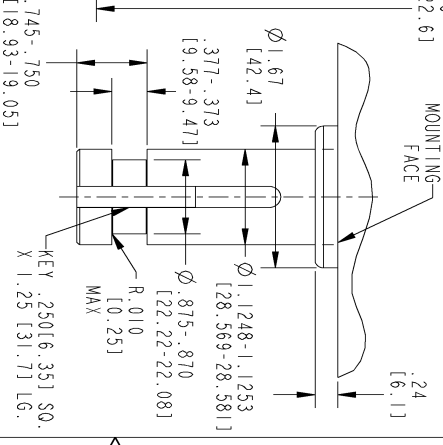


Marks:



VIEW AT ARROW "A"

ENLARGED VIEW OF SHAFT EXTENSION

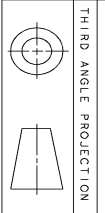


NOTE 1: CONDUIT BOX MAY BE ASSEMBLED WITH ENTRANCE DOWN OR TO EITHER SIDE.
 NOTE 2: MOUNTING SURFACES WILL BE SQUARE AND CONCENTRIC WITH SHAFT WITHIN .004 T.I.R.
 NOTE 3: SHAFT RUNOUT WILL NOT EXCEED .001 T.I.R.

REV.	DESCRIPTION	DATE	APPROVED
1	ISAAC 11-0298 KARTIK	05/05/2011	VJAY
2	ISAAC# 11-0832 GIREESH	11/24/11	ADI
3	ISAAC# 13-0820 DHEERAJ	09/27/13	ADI

MODEL	SMITH (12/28/01)	SIGNATURES	DATE
DESIGNED	HEMANTH (12/28/01)		
CHKD			
ENG			
QUALITY			
ISSUED	SMITH (12/28/01)		
SOLD MODEL	4002B5818PP5325		

GE Consumer & Industrial GENERAL ELECTRIC COMPANY	
INDUCTION MOTOR OUTLINE SOLID SHAFT INLINE WITH IEEE-941 SPEC FME: FR180LP TFC 'P' BASE (BD-10)	
SCALE: 0.400	REF. NO.: 4002B5818PP5321
SIZE DRAWING	REV 3



"A"

SIZE DRAWING NO. 4002B5818PP5325 3

REVISIONS

Marks:

Connection Diagram
GEM2034E-FIG1



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	4004D5261PH1	4004D5281SD1
Bearing	235A2501AL01	235A2502AF01
Slinger/Inproseal	4002B5918CD1	4002B5914AG2

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

Conduit & Accessories Box Assembly	
Part Description	Part#
Conduit Box	4002B5721PA-G01

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	