

Product Information Packet

January 12, 2017

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

Model Number:	5KS286CAA304D2
Catalog Number:	E9628
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG7
Outline Drawing:	4002B5828RAP5201

Accessory Connection Diagrams			
Bearing Thermocouple:	None	Heater:	None
RTD:	None	Thermistor:	None
Thermostat:	3027JE-2A	Winding Thermocouple:	None
Bearing RTD:	None		

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Marks:

MODEL NUMBER:	5KS286CAA304D2	Estimated Weight:	510 Lbs
Outline Drawing:	4002B5828RAP5201	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG7	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	XP
Design Code:	28BD3094B	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	286T	Insulation Class:	F
Phases:	3	NEMA Design:	B
Poles:	6	Nominal Efficiency:	91.7 %
Output Power:	20HP 14.8KW	Guaranteed Efficiency:	90.2
RPM:	1180	3/4 Load Efficiency:	92.3
Voltage:	575	KVA Code:	G
Hertz:	60	Max KVAR:	9.0
Amps - FL:	21.1	Power Factor:	77.5
Service Factor:	1.00	Bearing - DE:	6310ZC3
Alt Service Factor:	--	Bearing - ODE:	6310ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

EXPLOSION PROOF MOTOR
TEMP CODE T3C
THERMOSTAT LEADS TB1-TB2
STAMP NP249A5571AD "CL I (C & D) CL II (F & G)"

Additional Information:

6P - T EXTN
STANDARD FLOOR MOUNT
C/BOX 250 CU IN-2.00 NPT
F1 CONDUIT BOX MOUNTING
AUX LEADS EXIT WITH MOTOR LEADS
CL I C & D CL II F & G EXPLOSION PROOF MOTOR

Performance Characteristics

1st Winding 1st Connection

Design: 28BD3094B

Marks:

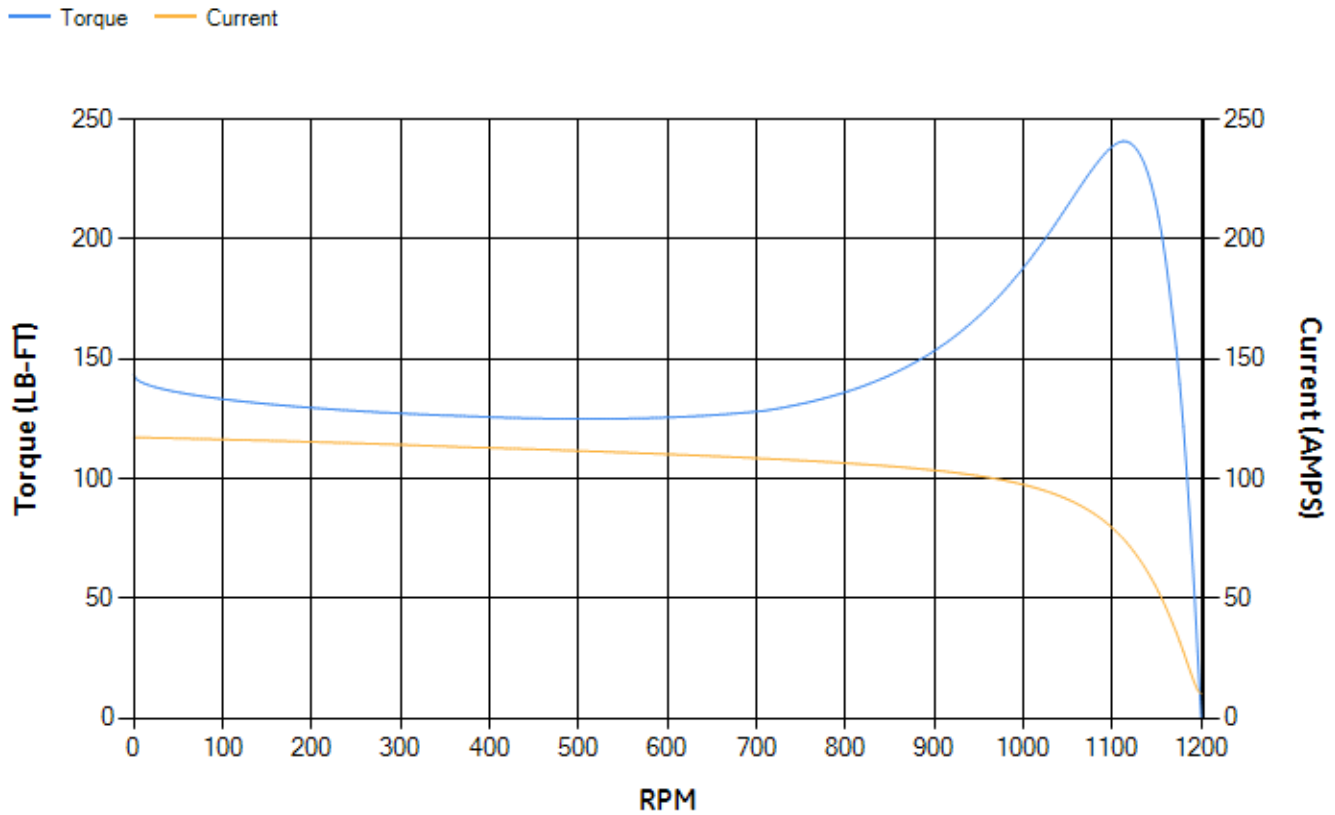
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	90.77	91.23	92	92.32	91.86	88.15	0.00
% PF	79.94	79.16	77.31	71.54	60.02	38.28	4.18
AMPS	25.8	23.85	21.07	17	13.58	11.1	10

TORQ(FL)#FT	88.87	TORQ(LR)%FL	161.3	TORQ(BD)%FL	270.35
AMPS(LR)	117.17	PF AT START	0.37		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 982 Lb-Ft Sq (41.34 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 33 seconds. Safe stall time at 100% voltage is 83 seconds cold, 48 seconds hot. Rotor inertia is 6.17 Lb-Ft Sq (0.26 Kg-meter Sq).

Open Circuit A-C:	0.341	Short Circuit D-C:	0.013
Short Circuit A-C:	0.026	X/R Ratio:	4.82
Stator Slots:	54	Rotor Slots:	42

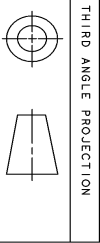
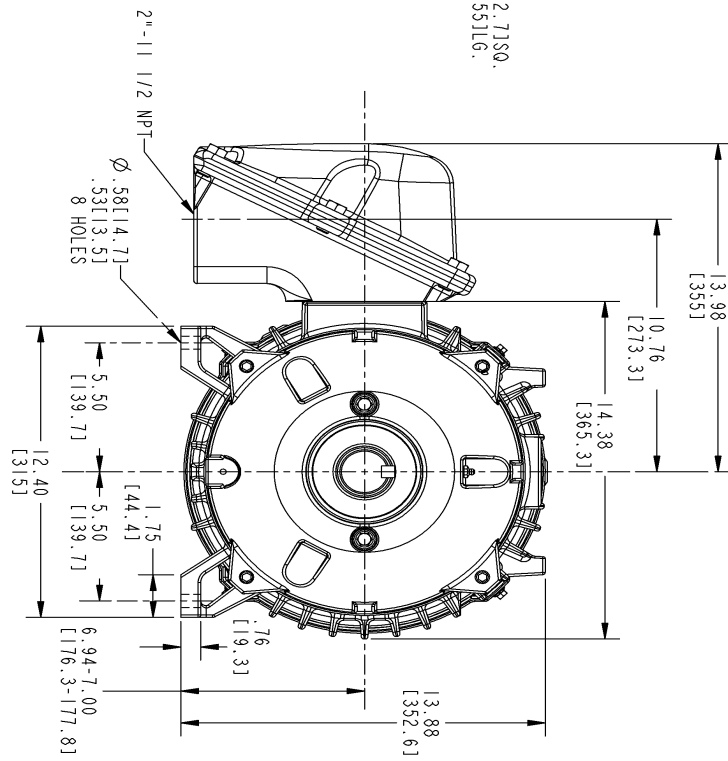
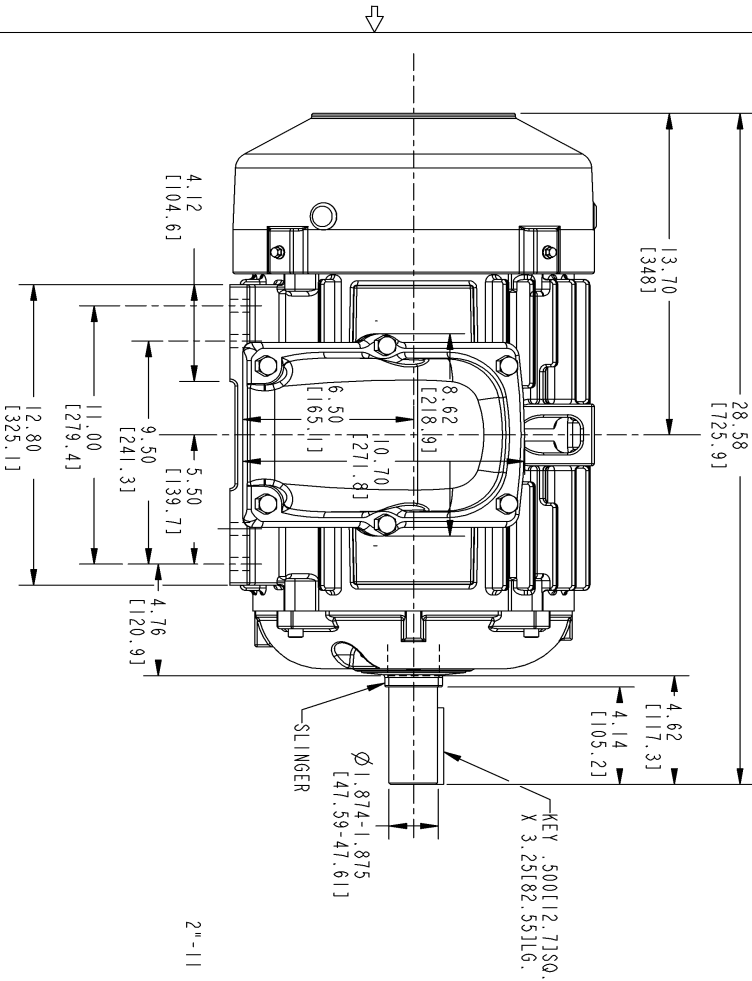
Speed Torque Current Curve (First Connection, First Speed)



NAME:320002276 OBJECT:4002B5828RAP5201 DATE:19-Feb-09 13:17:55

Marks:

NOTE 1 : CONDUIT BOX MAY BE ASSEMBLED WITH ENTRANCE UP, DOWN OR TO EITHER SIDE.
 NOTE 2 : F1 ASSEMBLY AS SHOWN. F2 ASSEMBLY CONDUIT BOX ON OPPOSITE SIDE FROM SHOWN LOCATION.



SIZE DRAWING NO. 4002B5828RAP5201 SH REV 2

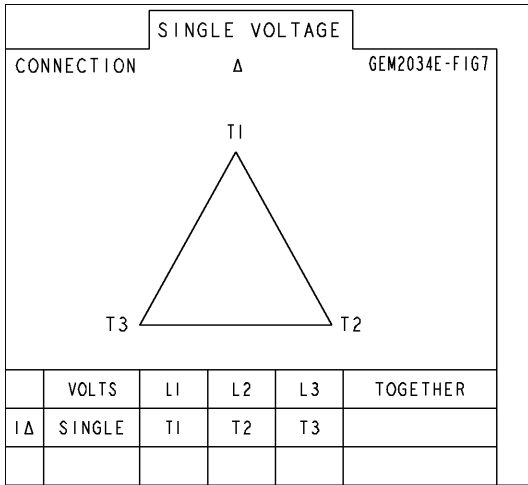
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
1	AS PER ISAC-07-1243	09/07/07	ROOPA
2	ISAC NO: #09-0164 ATUL	02/19/09	RAGHUNATH

SIGNATURES	DATE	 GE Industrial Systems GENERAL ELECTRIC COMPANY Fort Wayne, Indiana
DRWN: GARY WARRNER	FEB 19/02	
CHECKED: GARY WARRNER	FEB 21/02	
ENGR: GARY WARRNER	APR 03/02	
ISSUED: GARY WARRNER	APR 03/02	
APPLIED PRACTICES:		
SIZE DRAWING: B	SCALE: 0.225	REF. NO.: 4002B5828RAP5201
INDUCTION MOTOR OUTLINE	STANDARD CONSTRUCTION	FME: FR280T FCXP XSD ULTRA
4002B5828RAP5201	REV. 2	

DISTRIBUTION: PMP-18K15

Marks:

Connection Diagram
GEM2034E-FIG7



Thermostat Connection
3027JE-2A

