

Product Information Packet

January 12, 2017

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

Model Number:	5KFS202XAA207A
Catalog Number:	N445
Instruction Manual:	GEI-M1036
Connection Diagram:	GEM2034E-FIG116
Outline Drawing:	240C1500AC

Accessory Connection Diagrams			
Bearing Thermocouple:	None	Heater:	None
RTD:	None	Thermistor:	235A3027VD
Thermostat:	None	Winding Thermocouple:	None
Bearing RTD:	None		

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Marks:

MODEL NUMBER:	5KFS202XAA207A	Estimated Weight:	331 Kg
Outline Drawing:	240C1500AC	Duty:	S1
Connection Diagram:	GEM2034E-FIG116	Enclosure:	TEFC
Connection:	DELTA	Encl Construction:	841
Instruction Book:	GEI-M1036	Cooling(IC):	411
Design Code:	32RD1004H	Protection (IP):	55
Type:	KFS	Ambient Max (°C):	40
Frame:	200M	Alt Ambient Max (°C):	--
Mounting(IM):	B3T	Ambient Min (°C):	-40
Phases:	3	Insulation Class:	H
Poles:	4	IEC Design:	N
Output Power:	30 KW	Nominal Efficiency:	93.6 %
RPM:	1480	Guaranteed Efficiency:	92.6
Voltage:	400	Max KVAR:	14.4
Hertz:	50	Power Factor:	81.5
Amps - FL:	56.8	Bearing - DE:	6312ZC3
Service Factor:	1.00	Bearing - ODE:	6312ZC3
Alt Service Factor:	--	Vibration:	1.4 mm/s

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

DE BRG 60BC03JP3, ODE BRG 60BC03JP3
 OVER TEMP PROT 2
 MAXIMUM EXPOSED INTERNAL AND EXTERNAL SURFACE
 TEMPERATURES DO NOT EXCEED 200C UNDER USUAL
 SERVICE CONDITIONS AT 1.0SF

Additional Information:

4P - 55 MM DIA X 110 MM LONG EXTN - WYE START DELTA RUN
 PAINTED FRAME ID & SHAFT
 FAN COVER INSIDE & ODE E/S OUTSIDE
 CONDUIT BOX ASSEMBLY WITH CABLE ENTRY TOWARDS RIGHT SIDE
 WHEN VIEWED FROM DRIVE END
 346 CONDUIT BOX - GLAND PLATE (2) M50X1.5 - M8 TERM BLOCK
 - AUX TERM BLOCK - TOP
 OIL RESISTANT SLEEVING ON LEADS
 ROUTINE TEST REPORT AND 5 POINT VIBRATION TEST
 REPORT INCLUDED IN C/B
 SPL PAINTED SURFACES: FRAME ID, SHAFT, INSIDE OF
 FAN COVER, AND ODE/SHLD TO PREVENT CORROSION
 TOP MOUNTED CONDUIT BOX
 170 DEG C THERMISTOR LDS TO AUX T/B IN MAIN C/BOX
 GROUND SCREWS ON FRAME

Performance Characteristics

1st Winding 1st Connection

Design: 32RD1004H

Marks:

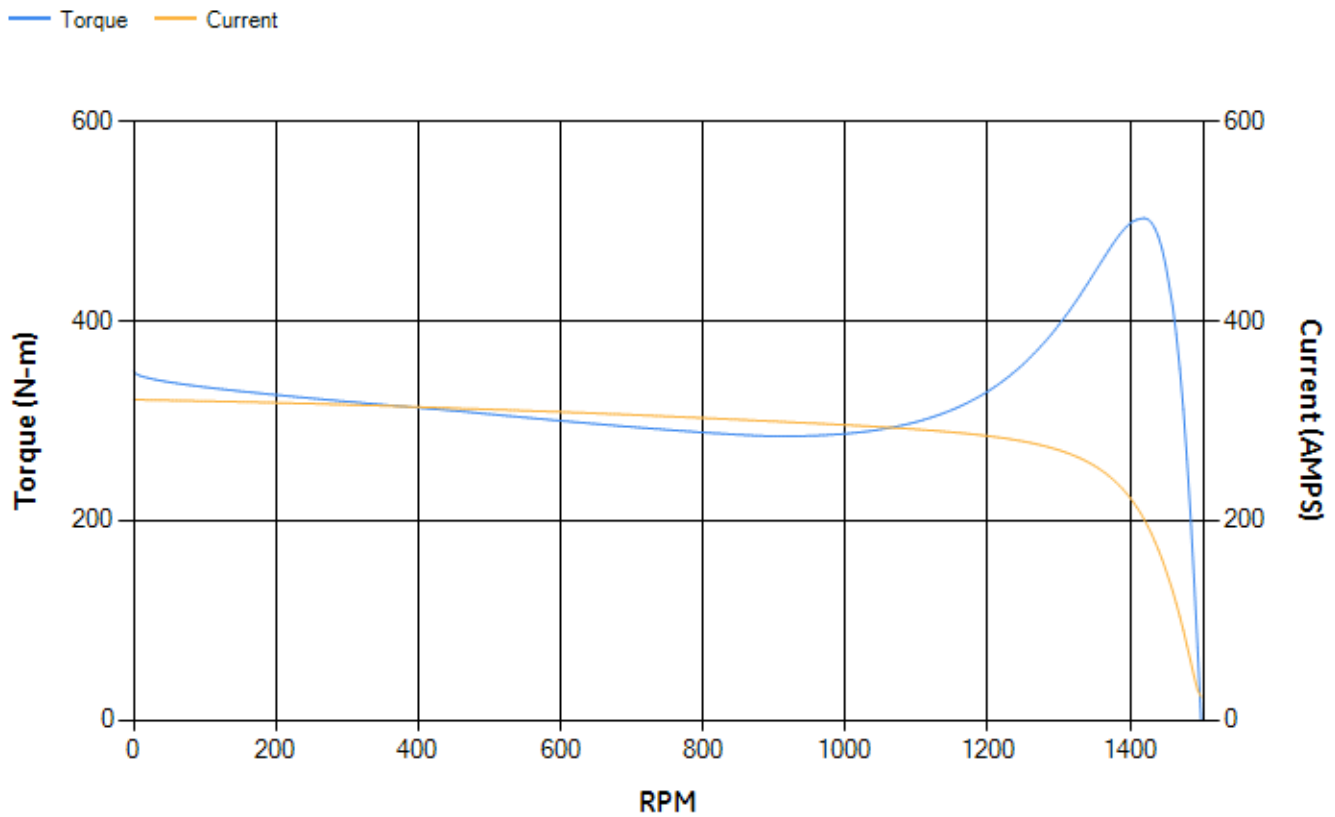
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	94	94.29	94.86	95.03	94.81	92.51	0.00
% PF	83.58	83.01	81.58	76.85	66.46	43.88	3.02
AMPS	68.89	63.62	55.85	44.47	34.36	26.67	23.09

TORQ(FL)N-m	193.33	TORQ(LR)%FL	180.75	TORQ(BD)%FL	259.09
AMPS(LR)	320.98	PF AT START	0.35		

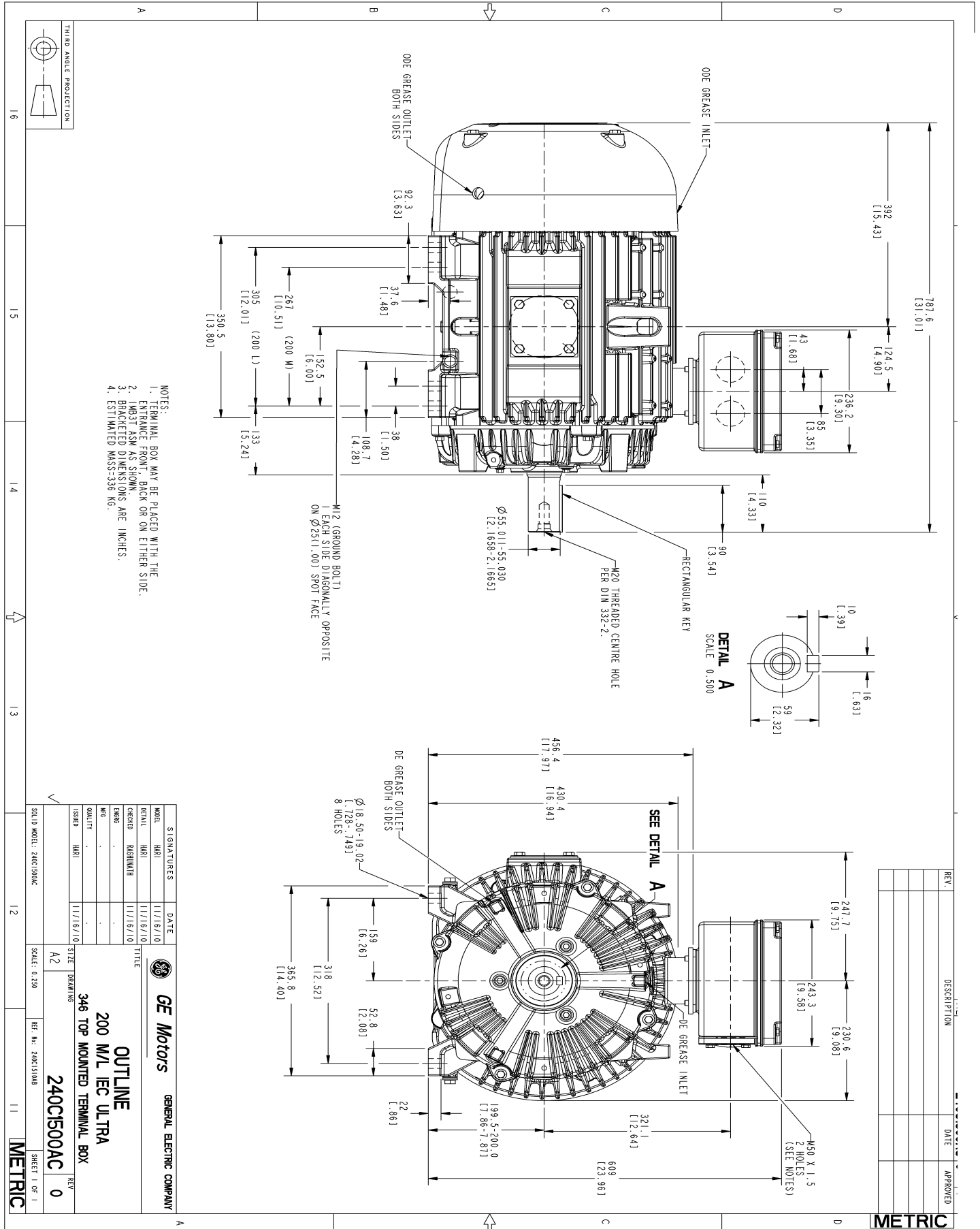
This motor is capable of two cold or one hot start with a maximum connected load inertia of 88.2 Kg-meter Sqat 100% voltage, where the load torque varies with the square of the speed. Acceleration time with maximum inertia and the above load type is 53 seconds. Safe stall time at 100% voltage is 104 seconds cold, 63 seconds hot. Rotor inertia is 0.4 Kg-meter Sq.

Open Circuit A-C:	0.585	Short Circuit D-C:	0.027
Short Circuit A-C:	0.035	X/R Ratio:	8.412
Stator Slots:	48	Rotor Slots:	38

Speed Torque Current Curve (First Connection, First Speed)

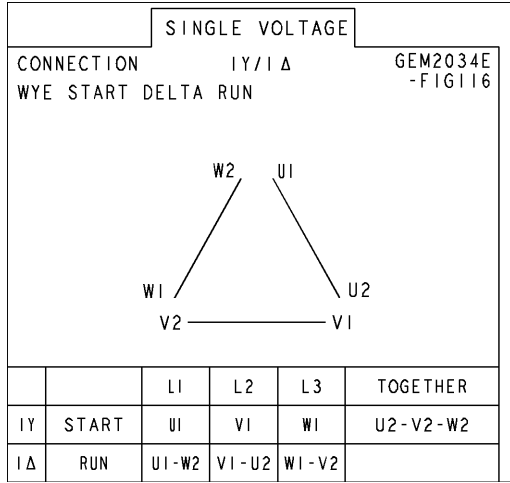


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Marks:

Connection Diagram
GEM2034E-FIG116





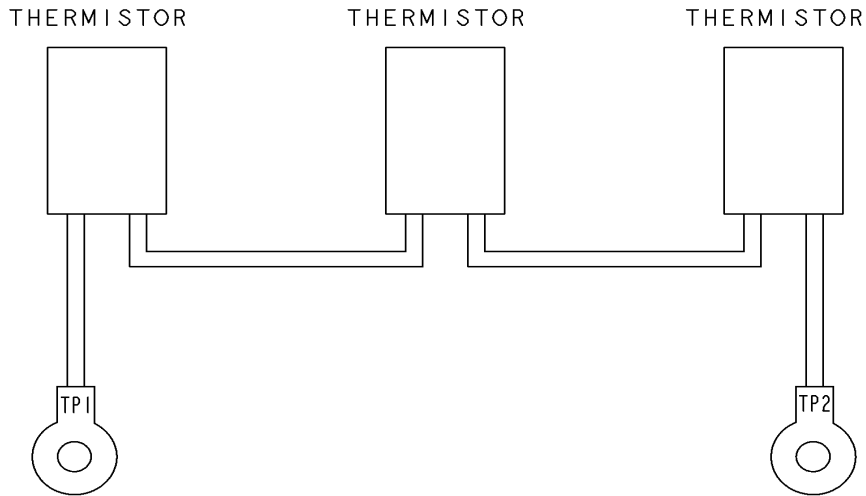
SH 1 REV 0	THIRD ANGLE PROJECTION	REVISIONS			
		REV	DESCRIPTION	DATE	APPROVED

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GE MOTORS

DWG NO 235A3027VD
SIZE A



NOTE:
THREE THERMISTORS, ONE IN EACH PHASE, ARE CONNECTED IN SERIES.
TWO LEADS ARE BROUGHT OUT INTO THE MAIN TERMINAL BOX OR AUXILIARY TERMINAL BOX.
LEADS ARE MARKED WITH TP1 AND TP2.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: 2 PL DECIMALS ± 3 PL DECIMALS ± ANGLES ± 1 FRACTIONS ± MATERIAL: APPLIED PRACTICES:	SIGNATURES	DATE	Fort Wayne, Indiana <h2 style="margin: 0;">CONNECTION DIAGRAM</h2> PTC THERMISTORS SINGLE WINDING	DISTR TO	
	DRAWN	ARPIT			11/10/09
	CHECKED	BHASKAR			11/10/09
	ISSUED	BHASKAR			11/10/09
	CAD NO. F500:235A3027VD	SIZE A	FSCM NO	DWG NO 235A3027VD	
		SCALE 1:1		SHEET 1 OF 1	

