

# Product Information Packet

November 9, 2016

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

<b>Model Number:</b>	<b>5KFS111XAA208A</b>
<b>Catalog Number:</b>	<b>N514</b>
<b>Instruction Manual:</b>	GEI-M1036
<b>Connection Diagram:</b>	GEM2034E-FIG116
<b>Outline Drawing:</b>	240C1150AA

Accessory Connection Diagrams			
<b>Bearing Thermocouple:</b>	None	<b>Heater:</b>	None
<b>RTD:</b>	None	<b>Thermistor:</b>	None
<b>Thermostat:</b>	None	<b>Winding Thermocouple:</b>	None
<b>Bearing RTD:</b>	None		

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**Marks:**

<b>MODEL NUMBER:</b>	<b>5KFS111XAA208A</b>	<b>Estimated Weight:</b>	35 Kg
<b>Outline Drawing:</b>	240C1150AA	<b>Duty:</b>	S1
<b>Connection Diagram:</b>	GEM2034E-FIG116	<b>Enclosure:</b>	TEFC
<b>Connection:</b>	DELTA	<b>Encl Construction:</b>	841
<b>Instruction Book:</b>	GEI-M1036	<b>Cooling(IC):</b>	411
<b>Design Code:</b>	18RD1008AB	<b>Protection (IP):</b>	56
<b>Type:</b>	KFS	<b>Ambient Max (°C):</b>	40
<b>Frame:</b>	112S	<b>Alt Ambient Max (°C):</b>	--
<b>Mounting(IM):</b>	B3T	<b>Ambient Min (°C):</b>	-25
<b>Phases:</b>	3	<b>Insulation Class:</b>	H
<b>Poles:</b>	4	<b>IEC Design:</b>	N
<b>Output Power:</b>	2.2 KW	<b>Nominal Efficiency:</b>	IE3-89.5 %
<b>RPM:</b>	1765	<b>Guaranteed Efficiency:</b>	87.9
<b>Voltage:</b>	460	<b>Max KVAR:</b>	1.4
<b>Hertz:</b>	60	<b>Power Factor:</b>	77.0
<b>Amps - FL:</b>	4.0	<b>Bearing - DE:</b>	6206ZC3
<b>Service Factor:</b>	1.00	<b>Bearing - ODE:</b>	6206ZC3
<b>Alt Service Factor:</b>	--	<b>Vibration:</b>	1.4 mm/s

**Enclosure is Totally Enclosed Fan-Cooled**

**Stamped Nameplate Notes:**

DE BRG 30BC02XP3 ODE BRG 30BC02XP3  
 IP 56  
 STAMP ON NP249A5499AH AS FOLLOWS:  
 MODEL: 5KFS111XAA208A S/N:  
 EX NA IIC T3 GC SIRA 11ATEX4118  
 CLASS I, ZONE 2, AEX NA IIC T3 IECEX CSA.09.0012  
 -25 DEG C <= TAMB <= +40

**Additional Information:**

4P - 28MM DIA X 60MM LONG EXTN-WYE START DELTA RUN  
 FOOT MOUNTED  
 55 CONDUIT BOX - GLAND PLATE (2) M32X1.5 - M6 TERM BLOCK  
 SPL PAINTED SURFACES: FRAME ID, SHAFT, INSIDE OF  
 FAN COVER, AND ODE/SHLD TO PREVENT CORROSION  
 ROUTINE AND 5 POINT VIBRATION TESTS INCL IN C/BOX  
 INPRO SEAL BOTH ENDS  
 GROUND SCREWS ON FRAME  
 SHAFT RUNOUT LIMIT .025 MM TIR  
 COPPER WASHER UNDER HEADS OF BEARING CAP BOLTS  
 PIPE PLUGS IN DRAINS  
 APPLY TITE-SEAL (A50CD427A) ON BEARING CAP SCREWS, RABBETS,  
 AND PLUG THREADS  
 OIL RESISTANT SLEEVING ON LEADS  
 CONDUIT BOX IS ON TOP





**Performance Characteristics**

1st Winding 1st Connection

**Design: 18RD1008AB**

**Marks:**

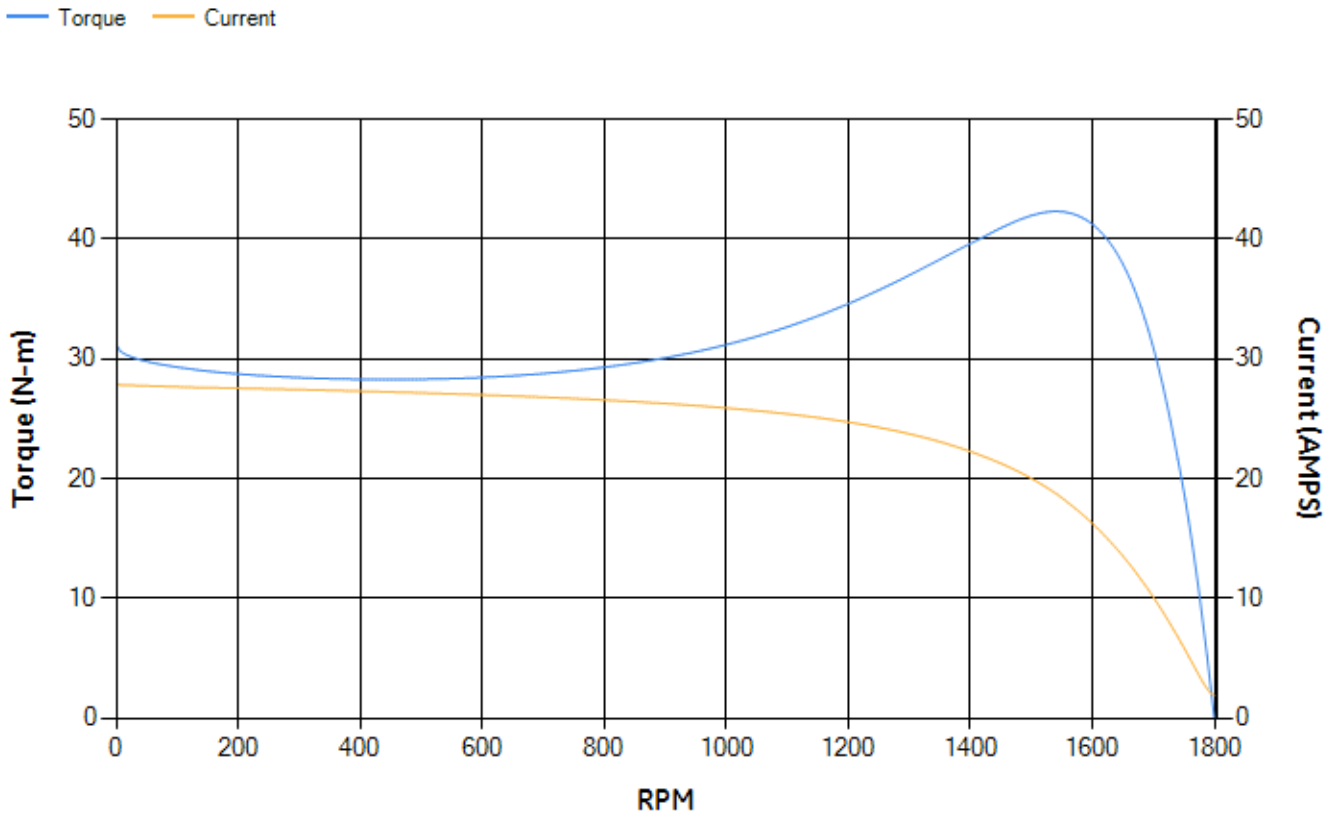
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	89.38	89.73	90.31	90.21	88.96	83.2	0.00
% PF	80.4	79.28	78.44	70.43	58.47	37.48	6.46
AMPS	4.8	4.46	3.9	3.26	2.65	2.21	1.91

<b>TORQ(FL)N-m</b>	11.89	<b>TORQ(LR)%FL</b>	262.11	<b>TORQ(BD)%FL</b>	352.83
<b>AMPS(LR)</b>	27.83	<b>PF AT START</b>	0.52		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 6.9 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 46 seconds. Safe stall time at 100% voltage is 103 seconds cold, 80 seconds hot. Rotor inertia is 0.01 Kg-meter Sq.

<b>Open Circuit A-C:</b>	0.265	<b>Short Circuit D-C:</b>	0.009
<b>Short Circuit A-C:</b>	0.014	<b>X/R Ratio:</b>	3.264
<b>Stator Slots:</b>	36	<b>Rotor Slots:</b>	28

**Speed Torque Current Curve (First Connection, First Speed)**





Marks:

**Connection Diagram**  
**GEM2034E-FIG116**

