



- DATA SHEET -

Custom 8000 (R)
SQUIRREL CAGE MOTOR

GE MODEL : 5K58114376601M SO : 7820049 QTY : 1	DESIGN : KC214A345A RI : 5012027 SERIAL # : TBD
POWER : 700 HP POLES : 6 VOLTAGE : 4000 / 2300 V FREQUENCY : 60 Hz PHASES : 3 TEMPERATURE RISE : 90°C / RTD @ SF 1.00	TYPE : K FRAME : 5811S ENCLOSURE / COOLING : TEFC SERVICE FACTOR : 1.15 INSULATION CLASS : F TEMPERATURE CLASS : B
DRIVEN LOAD : UNKNOWN LOAD WK2 REF.TO MOTOR SHAFT : 6903 Lbft ²	MAX. ALTITUDE : 3300 ft AMB. TEMP. (MIN/MAX) : -18/40 °C

Calculated Performance

RATED RPM : 1190 RPM RATED CURRENT : 90.4 / 157 A RATED TORQUE : 3087 Lbft RATED KVA : 626 STATOR CONNECTION : Y MIN. STG .VOLTAGE : 90% V TIME RATING : CONTINUOUS TOTAL WEIGHT (calculated) : 7250 Lb ROTOR WK2 (calculated) : 591 Lbft ² NOISE LEVEL(dBA) : 85 @ 3.3 ft MAX CAPACITOR KVar : 165 STATOR RESIST. @ 25C : 0.3977 ohm L-L X / R RATIO : 11.865 OPEN CIRC. CONSTANT : 1.1942 s OUTLINE NUMBER : D0023319 INSTRUCTION BOOK : GEEP-156I	NEMA STARTING CODE : G LOCKED ROTOR CURRENT : 700% LOCKED ROTOR TORQUE : 130% PULL UP TORQUE : 130% BREAKDOWN TORQUE : 225% COUPLING TYPE : DIRECT ARRANGEMENT : F1 ROTATION : DUAL MAX. BRG.VIBR. [pk] : 0.12 in/sec BEARING TYPE : ANTI-FRICTION BEARING LUBRICATION : GREASE LOCKED ROTOR TIME (100% V) COLD : 20 s HOT : 15 s NUMBER OF STARTS (NEMA MG1-20.12) COLD : 2 HOT : 1 STATOR / ROTOR (SLOTS) : 72 / 86
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NOTES

VIBRATION LIMITS BASED ON MOTOR RUNNING UNCOUPLED AND WITH BEARING TEMPERATURE STABILIZED IN STIFF BASE.

PREPARED BY : DOUGLAS TARDOCHI

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09-26-2017 REV : 0

DS7820049_700



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SQUIRREL CAGE MOTOR

MODEL : 5K58114376601M

SO : 7820049

RI : 5012027

Calculated Performance at 4000 V

Load(%)	P.F (pu)	Eff(%)	Curr. (A)
No Load			26
115	0.88	94.6	104
100	0.88	94.7	90.4
75	0.86	94.6	69.5
50	0.80	93.8	50.2

Calculated Performance at 2300 V

Load(%)	P.F (pu)	Eff(%)	Curr. (A)
No Load			45.2
115	0.88	94.6	181
100	0.88	94.7	157
75	0.86	94.6	121
50	0.80	93.8	87.3

ACCESSORIES

- 2 BEARING RTD - PT100 - SINGLE
Alarm = 90 °C Trip = 100 °C
- 1 HEATER - 200W - 120V 1PH
- 6 STATOR RTD-Pt 100Ohms AT 0C
Alarm = 135 °C Trip = 140 °C

TESTS

AC HIGH-POTENTIAL
PHASE SEQUENCE
NO-LOAD LOSSES
INSULATION RESISTANCE
NO-LOAD CURRENT EACH PHASE
NO-LOAD SPEED
WINDING RESISTANCE
MECHANICAL VIBRATION

REVISIONS

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