

* Original Motor before Repair

K11M

GE MOTORS - DATA SHEET -

CUSTOM 8000 (R)
SQUIRREL CAGE MOTOR

CUSTOMER : ROCKFA - PROJECT NUMBER 7402-6823
PURCHASER ORDER : FLORIDA ROCK INDUSTRIES
GE MODEL : 5K84111548502
SO : 2840255
QTY : 1
DESIGN : KK425W440D
RI : 132-0-7755/03
SERIAL # : 284001173

POWER : 1250 HP
POLES : 8
VOLTAGE : 4000 V
FREQUENCY : 60 HZ
PHASES : 3
TEMPERATURE RISE: 40 C / RES @ SF 1.0
TYPE : K
FRAME : 8411S
ENCLOSURE : WP11
SERVICE FACTOR : 1.00
INSULATION CLASS: F (POLYSEAL)

DRIVEN LOAD : FAN
MAX. ALTITUDE : 3300 Ft
LOAD WK2 REF. TO MOTOR SHAFT : 99807 Lbft2

RATED RPM : 890
RATED CURRENT : 163 A
RATED TORQUE : 7374 Lbft
RATED KVA : 1129
STATOR CONNECTION : Y
MIN. STG. VOLTAGE : 90% V
TIME RATING : CONTINUOUS
Calculated Performance
NEMA STARTING CODE : G
LOCKED ROTOR CURRENT : 650 %
LOCKED ROTOR TORQUE : 88 %
BREAKDOWN TORQUE : 224 %
COUPLING TYPE : DIRECT
ARRANGEMENT : F1

AMB. TEMP. (MIN/MAX) : -18/40 C
TOTAL WEIGHT (calc.) : 13500 lb
ROTOR WK2 (calculated): 2000 Lbft2
NOISE LEVEL (dBA) : 85.0 @ 3.3 ft
MAX CAPACITOR KVAR : 300
STATOR RESIST. @ 25C : 0.1980 Ohms L-L
X/R RATIO : 17.000
OPEN CIRC. CONSTANT : 1.0800 S
ROTATION : DUAL
MAX. BRG. VIBR. (PK-PK) : 0.0030 in
BEARING TYPE : SLEEVE
BEARING LUBRICATION : OIL
END PLAY : 0.50 in
LOCKED ROTOR TIME : 0.50
COLD : 25 Sec
HOT : 18 Sec
NUMBER OF STARTS (NEMA MGT-20.43)
COLD : 2
OR HOT : 1

OUTLINE NUMBER : M84C100456
INSTRUCTION BOOK : GEEP-T-12-1

NOTES:
ABRASION TREATMENT ON STATOR WINDING


PREPARED BY : JOSE LUIZ DE MORAES
APPROVED: *

Dec 5, 97 | REV:1

SH 1 OF 2

DS2840255

* Brand new motor designed for same application

 GE Motors		- DATA SHEET -		GE Industrial Systems Custom 8000 (R) SQUIRREL CAGE MOTOR	
CUSTOMER :		ITEM 2K1101			
CUSTOMER ORDER :					
GE MODEL : 5K84111558502 SO. : 2841201 QTY : 1		DESIGN : KC430W440A RI : 132-1-632004 SERIAL # : 284002741			
POWER : 1500.0 HP POLES : 08 VOLTAGE : 4000 V FREQUENCY : 60.0 Hz PHASES : 03 TEMPERATURE RISE : 80°C / RTD @ SF 1.0		TYPE : K FRAME : 8411S ENCLOSURE / COOLING : WPII SERVICE FACTOR : 1.0 INSULATION CLASS : F (POLYSEAL) TEMPERATURE CLASS : B			
DRIVEN LOAD : KILN ID FAN LOAD WK2 REF. TO MOTOR SHAFT : 97746 Lbf*		MAX. ALTITUDE : 3300 ft AMB. TEMP. (MIN/MAX) : -18/40 °C			
Calculated Performance RATED RPM : 885 RATED CURRENT : 200 A RATED TORQUE : 8886 Lbf* RATED KVA : 1386 STATOR CONNECTION : Y MIN. STG. VOLTAGE : 90% V TIME RATING : CONTINUOUS		NEMA STARTING CODE : G LOCKED ROTOR CURRENT : 650% LOCKED ROTOR TORQUE : 100% PULL UP TORQUE : 100% BREAKDOWN TORQUE : 240% COUPLING TYPE : FLEXIBLE ARRANGEMENT : F2 ROTATION : DUAL			
TOTAL WEIGHT (calculated) : 13600 Lb ROTOR WK2 (calculated) : 2470 Lbf* NOISE PRESSURE LEVEL (dBA) : 85 @ 3.3 ft MAX CAPACITOR KVAR : 390 STATOR RESIST. @ 25C : 0.1910 Ohms L-L X/R RATIO : 13.730 OPEN CIRC. TIME CONSTANT : 0.5540 s OUTLINE NUMBER : M84C101495 INSTRUCTION BOOK : GEEP-1411		MAX. BRG. VIB. [in] : 0.12 in/sec BEARING TYPE : SLEEVE BEARING LUBRICATION : OIL END PLAY : 0.5 in LOCKED ROTOR TIME (100% V) COLD : 40 s HOT : 30 s ACCELERATION TIME : 27 s NUMBER OF STARTS : (NEMA MG1-20.12) COLD : 2 HOT : 1 STATOR / ROTOR (SLOTS) : 96 / 117			
NOTES VIBRATION LIMITS BASED ON MOTOR RUNNING UNCOUPLED AND WITH BEARING TEMPERATURE STABILIZED IN STIFF BASE.					
PREPARED BY : JOSE LUIZ DE MORAES APPROVED :		12-26-2006 REV : 01		SH 1 OF 2 DS2841201	

* Fan load data

ROBINSON INDUSTRIES INC.

FAN: 123 X 19 BC0814

FOR: POLYSIUS CORP.

FAN SPEED : 880

TEMP: 70 DEG. F

DENSITY : 0.0752 #/FT³

DATE : 8-15-06

QUOTE # :

FO # : 229-06

KILL ID
ITEM 2K1101

TORQUE
REQUIRED
AT MOTOR
SHAFT
(FT-LBS)

1232.00 FT-LBS
BREAKAWAY
TORQUE

