

INDUCTION MOTOR DATA
Siemens Energy & Automation, Inc
Norwood, Ohio

Customer : METSO MINERALS (SAFFORD, ARIZONA)
Order Number: 3000148667-000027

SPECIFIED REQUIREMENTS

Horsepower : 1000
Service Factor : 1.15
Voltage : 4000
Number of Phases : 3
Frequency, hertz : 60
Ambient, deg C : 45
Enclosure : TEFC
Synchronous Speed, RPM : 1200
Percent Starting Voltage: 90
Elevation : 4200

FRAME DATA

Frame : 788S
Type : CGZ
Rotor Construction : Fabricated Copper Bar
Load Inertia (wk2), lb-ft2 :
Rotor Inertia (wk2), lb-ft2 : 1336
Rotor Weight, lbs : 3538
Motor Weight, lbs : 13600

PERFORMANCE DATA

Full Load Speed, RPM :	1182	Full Load Torque, lb-ft :	4443
Current, Amps :	134	Starting Torque, %FLT :	125
Locked Rotor Current, % FLA :	647	Breakdown Torque, %FLT :	254
KVA/Hp :	5.99		
Code :	G		

	0.50	0.75	Full	No	Locked
	<u>Load</u>	<u>Load</u>	<u>Load</u>	<u>Load</u>	<u>Rotor</u>
Percent Efficiency :	94.3	94.8	94.7	N/A	N/A
Percent Power Factor :	74.1	82.0	85.1	5.1	21.9
Current, Amps :	77.0	103.9	133.6	44.3	864.5

	<u>100</u>	<u>90</u>	<u>% Voltage</u>
Safe Stalled Time, Motor Hot :	12.0	18.0	Seconds
Safe Stalled Time, Motor Cold:	16.0	21.0	Seconds

Time Constants : 0.505 Seconds Open Circuit
0.028 Seconds Short Circuit (AC)
X/R Ratio : 28.970

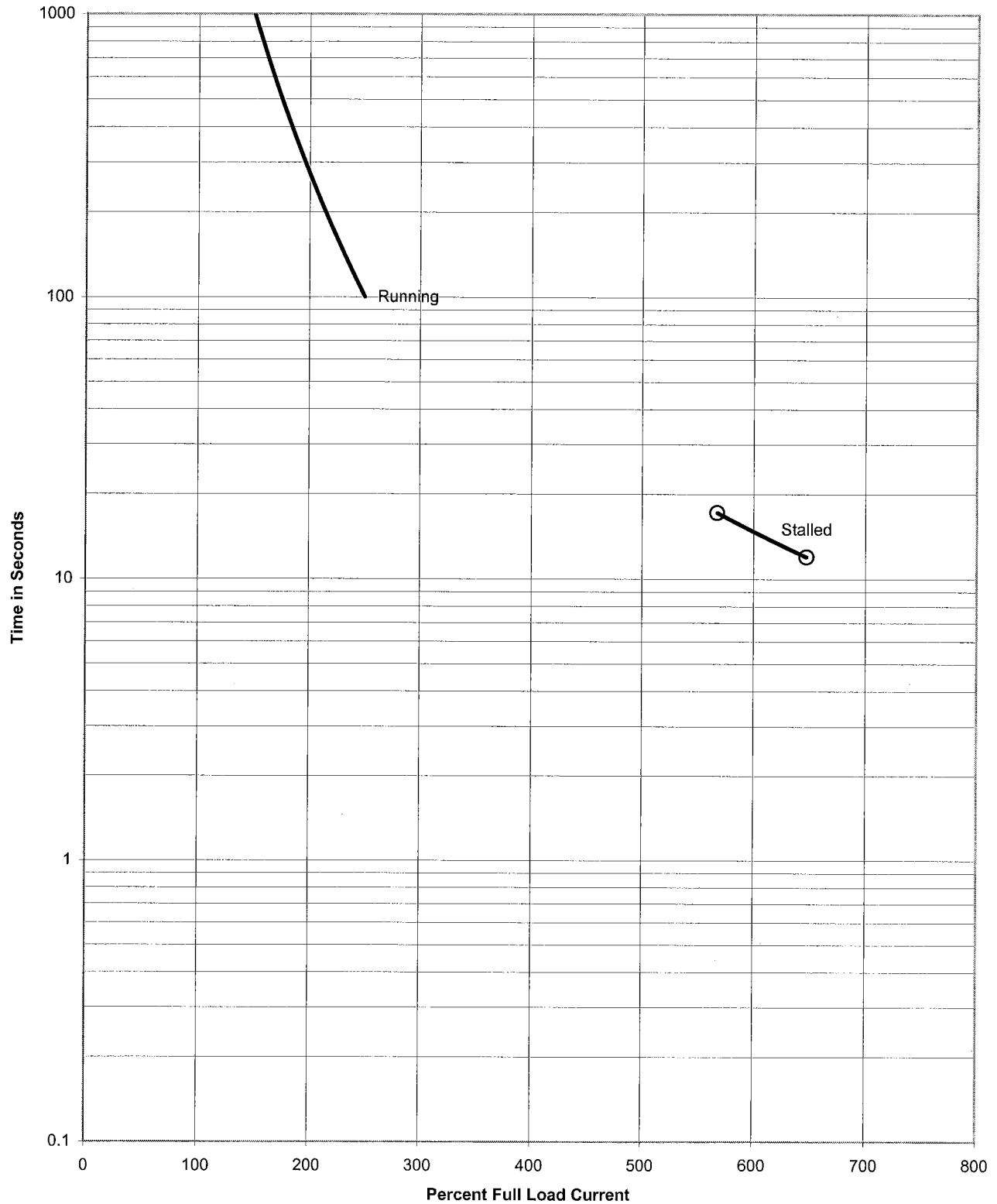
Please Note:

1. All values are typical.
2. Guaranteed values are indicated in (GUAR)

Siemens Energy & Automation, Inc.

Induction Motor

Calculated Time vs. Percent Full Load Current



ID Number: 3000148667-000027

HP: 1000 HP

Rated Voltage: 4000 V

Rated Current: 133.6 A

Rated Speed: 1182 RPM

Date: 7/24/2006