



WEG Indústrias S.A - Máquinas

Date: 12/18/2003

Performance Curves

Nº: 21122-0/2003

Three Phase Induction Motor - Squirrel Cage Rotor

FD:

Customer: WEG ELECTRIC MOTORS CORP.

Customer reference: Turbo Steam Corp - PO# 03241

Product code:

Line: MGP

Identification

Frame: 6810

Output: 1126 HP

Frequency: 60 Hz

Poles: 2

Rated speed: 3631 rpm

Rated voltage: 480 V

Rated current: 1200 A

Locked rotor current (p.u.): 6.2

Design: B

Locked rotor torque: 60 %

Rated torque: 1630 lb.ft

Breakdown torque: 200 %

Insulation class: F

Service factor: 1.15

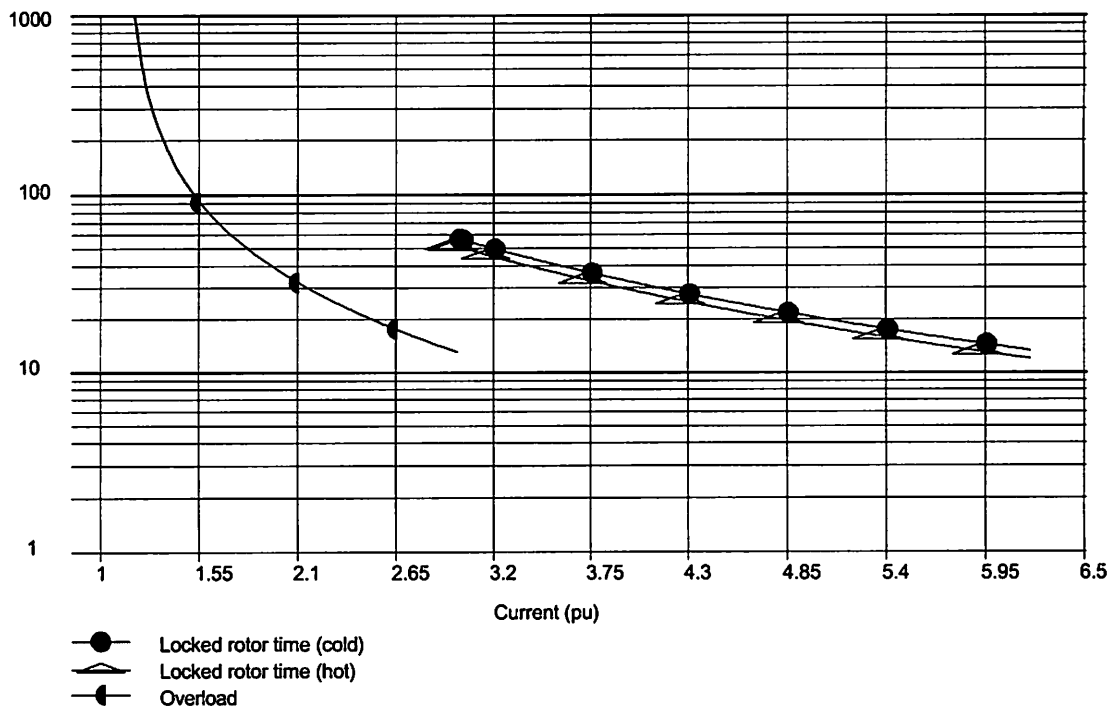
Duty: S1

Power factor: 0.88

Efficiency: 95.7 %

Temperature rise: 80 °C

Thermal Damage



Notes

TEMPERATURE RISE AT S.F. OF 1.15 = 115K.

Turbo Steam Corp - PO# 03241.

Job Name: Schweitzer Project # 03154.

Edition

Performed	Checked	Date	Site
SARTORI	MAURICIOB	12/18/2003	WM

Changes

Performed Checked Date

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	WEG Indústrias S.A - Máquinas			Date: 01/14/2004	
	Data Sheet			Nº: FD 28100-2/2003	
	Three Phase Induction Motor - Squirrel Cage Rotor			Dimensional Drawing 9301.2425	
Customer: WEG ELECTRIC MOTORS CORP. Customer reference: Turbo Steam Corp - PO# 03241 Product code: Line: MGP					
Identification					
Frame: 6810 Output: 1126 HP Frequency: 60 Hz Poles: 2 Rated speed: 3631 rpm Slip: Rated voltage: 480 V Connection:D Rated current: 1200 A Rotor voltage: Not aplicable Rotor current: Not aplicable Locked rotor current: 7440 A Locked rotor current (p.u.): 6.2 kVA/HP: 5.49 No load current: 168 A Design: B Rated torque: 1630 lb.ft Locked rotor torque: 60 % Breakdown torque: 200 %			Insulation class: F Temperature rise: 80 °C Locked rotor time: 11 s Service factor: 1.15 Duty: S1 Ambient temperature: 40 °C Altitude: 3300 ft Degree of protection: WP-II Cooling: SELF-VENTILATED (IC 01) Mounting: F-1 Vibration: NORMAL Aprox. weight: 8600 lb Moment of inertia (J=GD ² /4): 200 lb.ft ² Noise level: 85 dB(A) Direction of rotation: COUNTER CLOCKWISE (Facing the motor drive end shaft) Starting method: DIRECT ON LINE (100%) Coupling: DIRECT		
Performance Data			Load Data		
Output	50%	75%	100%	Load type:	
Efficiency(%):	94.8	95.5	95.7	Resistant torque: J(J=GD ² /4):	
Power factor:	0.83	0.87	0.88	Acceleration time:	
Notes/Accessories					
- GROUNDING LUG IN THE FRAME - GROUNDING LUG IN THE TERMINAL BOX - SPACE HEATER 120 V, 180 W - TEMPERATURE DETECTOR : PT 100 02 PER PHASE 03 WIRE, - TEMPERATURE DETECTOR : PT 100 01 PER BEARING 03 WIRE, - VALUES FOR MACHINE AS INDUCTION GENERATOR. - TEMPERATURE RISE AT S.F. OF 1.15 = 115K. - ELECTRICALLY INSULATED N.D.E. BEARING Turbo Steam Corp - PO# 03241. Job Name: Schweitzer Project # 03154.					
Standards					
Specification:	MG1 - Part 10				
Test:	MG1 - Part 12				
Noise:	MG1 - Part 9				
Vibration:	MG1 - Part 7				
Tolerance:	MG1 - Part 4				
Edition					
Performed	Checked	Date	Site		
THIAGOK	CELIONEIB	12/04/2003	WM		
Changes			Performed	Checked	Date
2	FDI was Preliminary and Aprox. weight was 7275 lb.			EDUARDOT SARTORI	01/14/2004
1	Changed Performance values, add customer reference.			CELIONEIB ALEXH	12/18/2003

CERTIFIED

WEG MÁQUINAS