

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 JP Pump NEMA Premium Efficiency Three-Phase Product code : 14836782
Catalog # : 04036OT3V286JPV-W40

Frame	: 284/6JP	Locked rotor time	: 14s (cold) 8s (hot)
Output	: 40 HP (30 kW)	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 200/400 V	Altitude	: 1000 m.a.s.l.
Rated current	: 108/53.8 A	Protection degree	: IP23
L. R. Amperes	: 700/350 A	Cooling method	: IC01 - ODP
LRC	: 6.5x(Code G)	Mounting	: W-6
No load current	: 34.3/17.1 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3540 rpm	Noise level ²	: 73.0 dB(A)
Slip	: 1.67 %	Starting method	: Direct On Line
Rated torque	: 59.3 ft.lb	Approx. weight ³	: 361 lb
Locked rotor torque	: 190 %		
Breakdown torque	: 260 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 2.02 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads
Efficiency (%)	91.5	91.7	92.4	92.4	Max. traction
Power Factor	0.51	0.76	0.84	0.87	Max. compression

	Drive end	Non drive end
Bearing type	: 6311 Z C3	: 6211 Z C3
Sealing	: Without Bearing Seal	: Without Bearing Seal
Lubrication interval	: 11517 h	: 14226 h
Lubricant amount	: 18 g	: 11 g
Lubricant type	Mobil Polyrex EM	

Notes

This revision replaces and cancel the previous one, which must be eliminated.

- (1) Looking the motor from the shaft end.
- (2) Measured at 1m and with tolerance of +3dB(A).
- (3) Approximate weight subject to changes after manufacturing process.
- (4) At 100% of full load.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

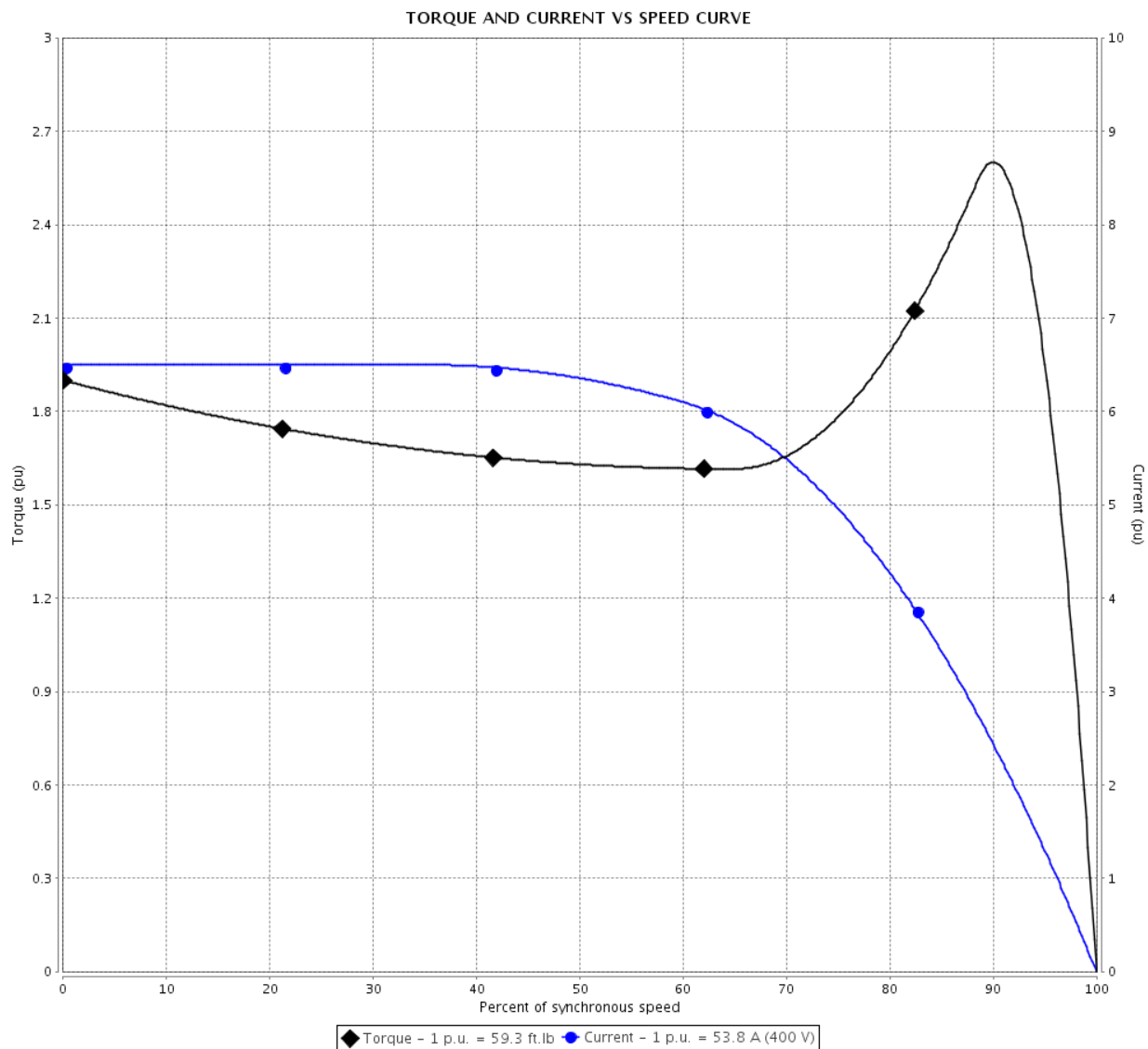


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Product code : 14836782

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Performance : 200/400 V 60 Hz 2P

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LRC : 6.5
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Locked rotor torque : 190 %
Breakdown torque : 260 %
Rated speed : 3540 rpm

Moment of inertia (J) : 2.02 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

Locked rotor time : 14s (cold) 8s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

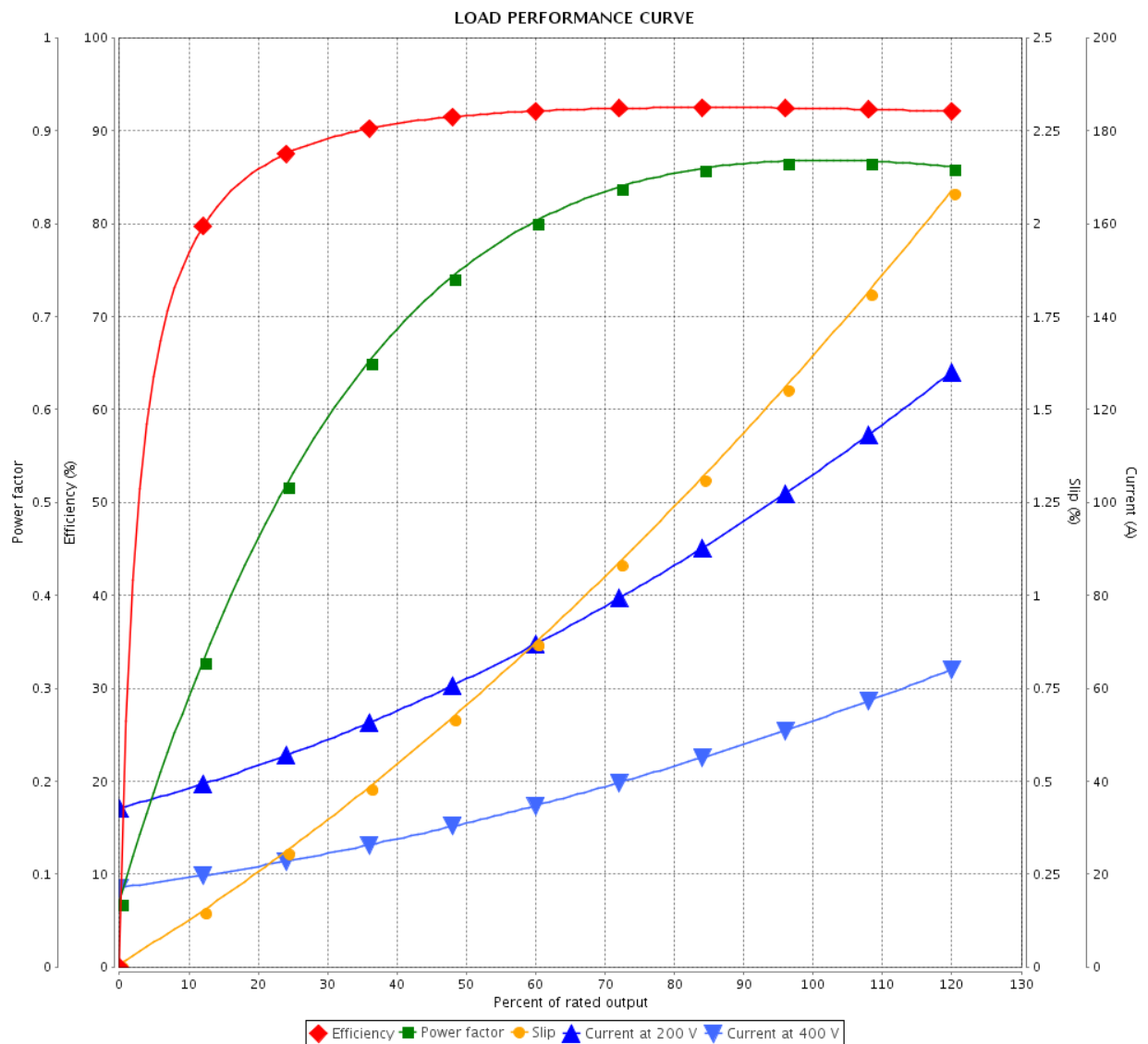


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THERMAL LIMIT CURVE

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Breakdown torque : 260 %

Rated speed : 3540 rpm

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Insulation class : F

Service factor : 1.25

Temperature rise : 80 K

Design : B

Heating constant

Cooling constant

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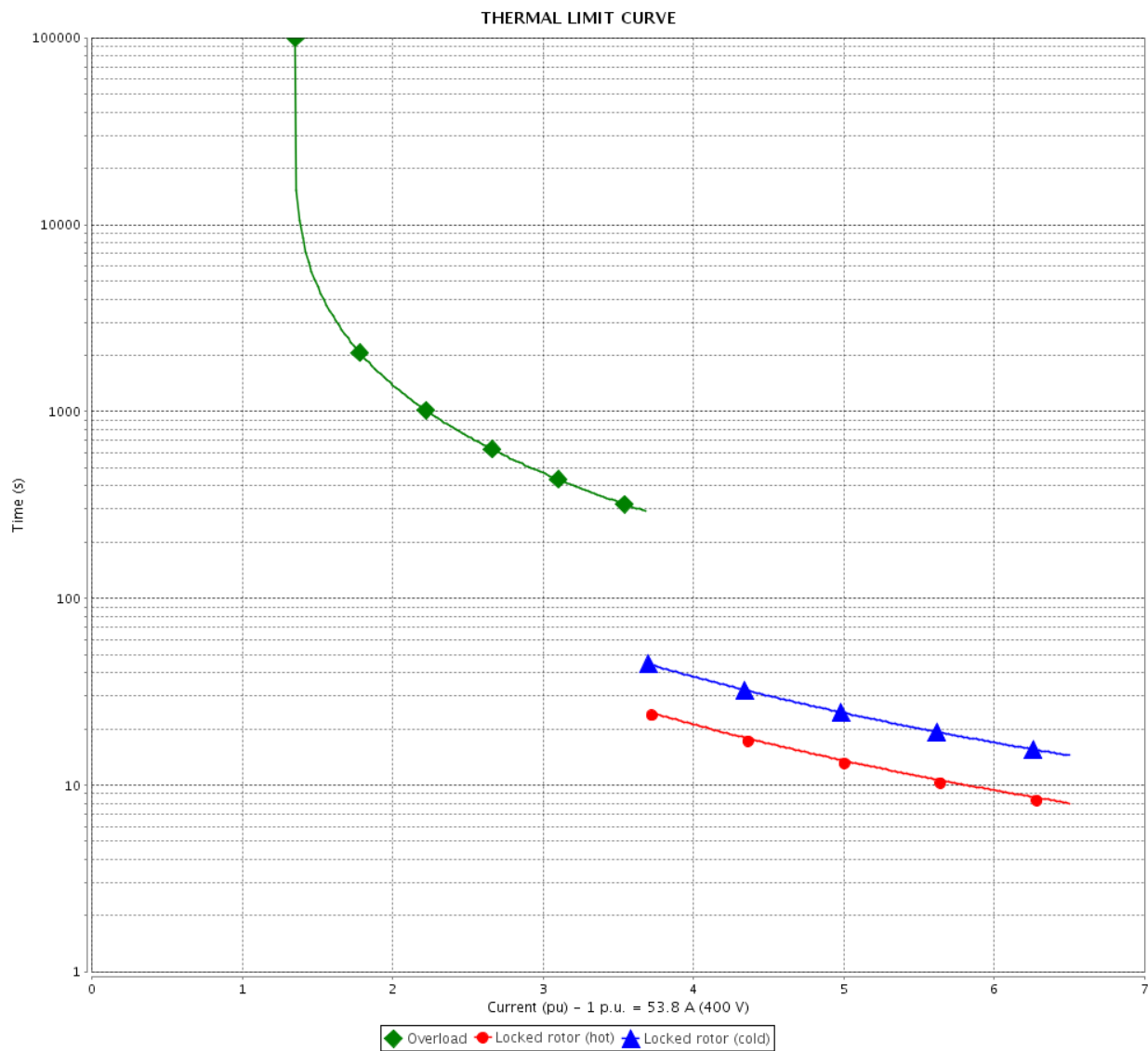
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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VFD OPERATION CURVE

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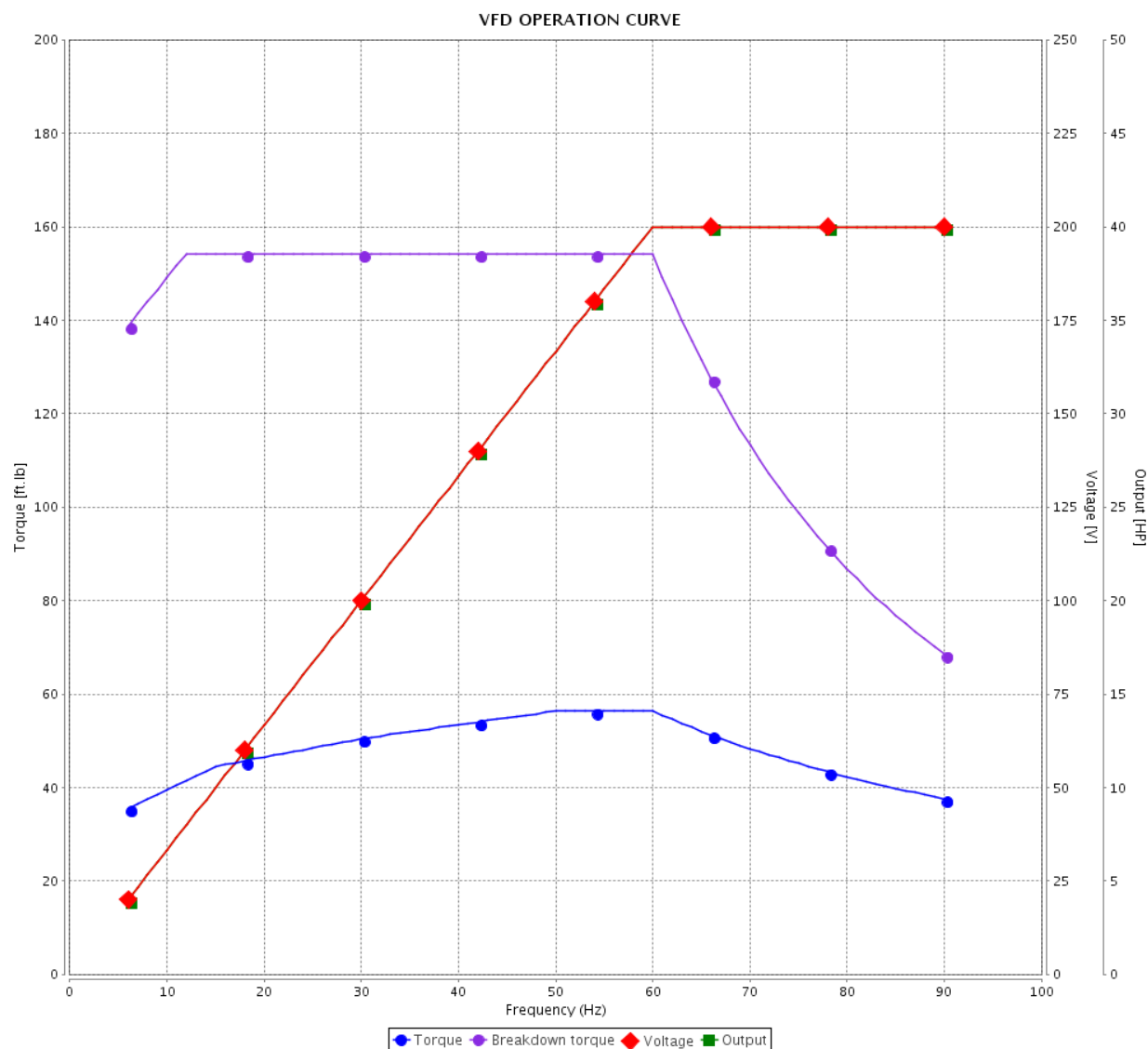


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