

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 JP Pump High Efficiency
Three-Phase

Product code : 14830339

Catalog # : 02518OP3EFP284JPV-W4

Frame : 284/6JP
Output : 25 HP (18.5 kW)
Poles : 4
Frequency : 60 Hz
Rated voltage : 230/460 V
Rated current : 60.2/30.1 A
L. R. Amperes : 361/181 A
LRC : 6.0x(Code G)
No load current : 20.0/10.0 A
Rated speed : 1765 rpm
Slip : 1.94 %
Rated torque : 74.4 ft.lb
Locked rotor torque : 229 %
Breakdown torque : 229 %
Insulation class : F
Service factor : 1.15
Moment of inertia (J) : 2.88 sq.ft.lb
Design : B

Locked rotor time : 41s (cold) 23s (hot)
Temperature rise : 80 K
Duty cycle : Cont.(S1)
Ambient temperature : -20°C to +40°C
Altitude : 1000 m.a.s.l.
Protection degree : IP23
Cooling method : IC01 - ODP
Mounting : W-6
Rotation¹ : Both (CW and CCW)
Starting method : Direct On Line
Approx. weight³ : 389 lb

Output	25%	50%	75%	100%
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Efficiency (%)	90.8	91.0	91.7	91.7
Power Factor	0.46	0.68	0.79	0.84

Foundation loads

Max. traction

Max. compression

	Drive end	Non drive end
Bearing type	6311 Z C3	6211 Z C3
Sealing	Without Bearing Seal	Without Bearing Seal
Lubrication interval	20000 h	20000 h
Lubricant amount	18 g	11 g
Lubricant type	Mobil Polyrex EM	

Notes

USABLE @208V 66.6A SF 1.00 SFA 66.6A

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

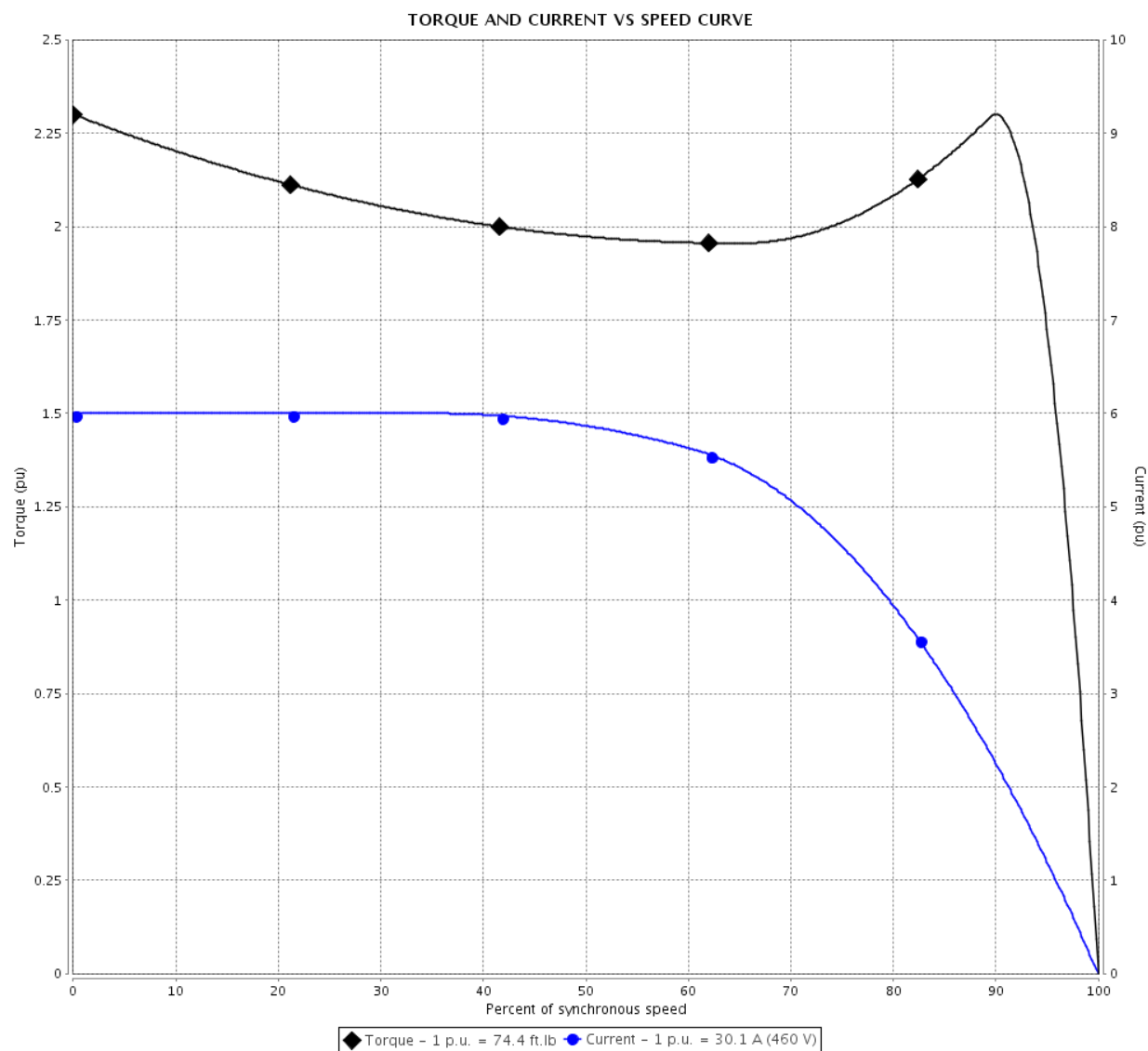


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LOAD PERFORMANCE CURVE

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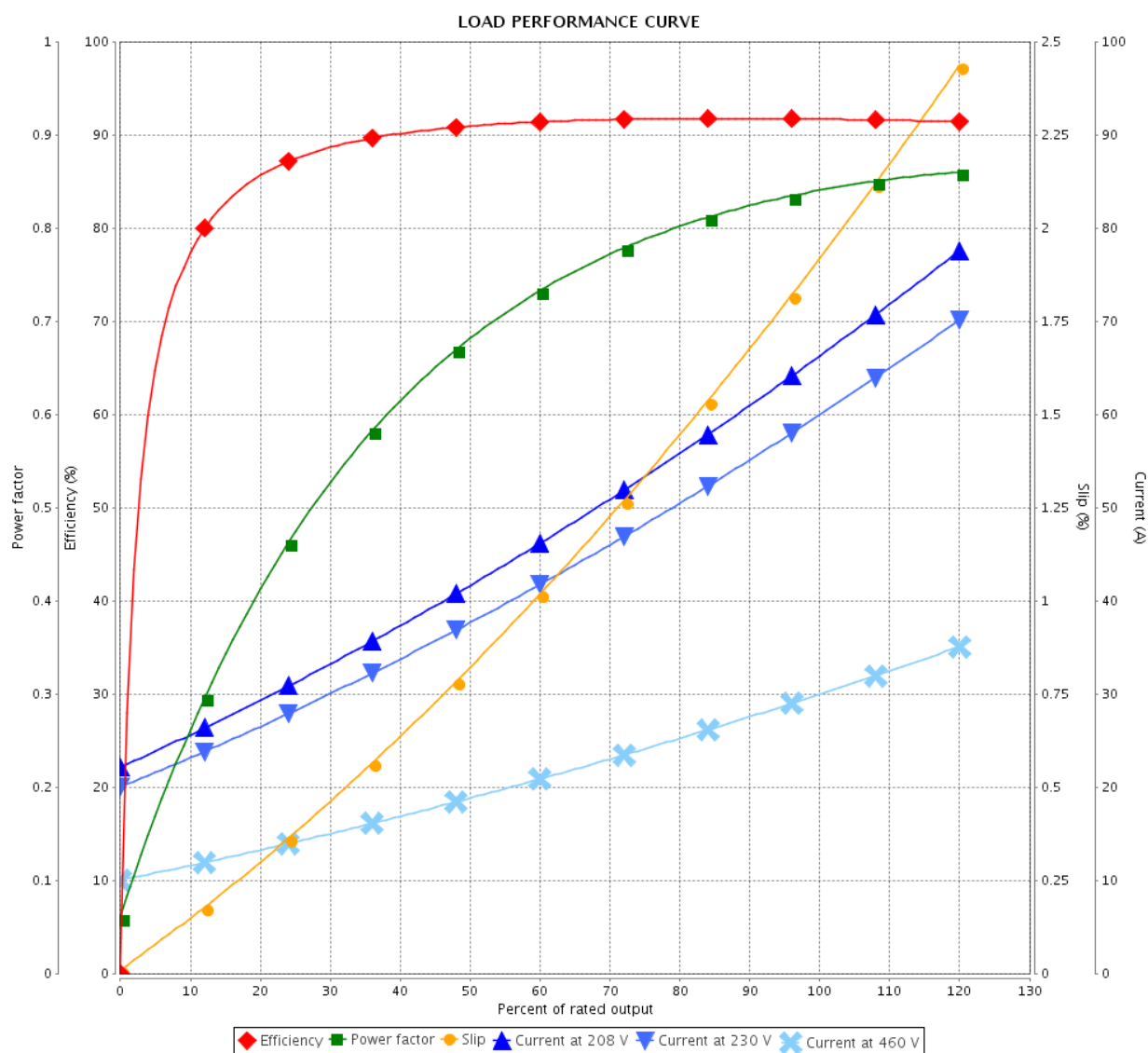


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THERMAL LIMIT CURVE

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Heating constant

Cooling constant

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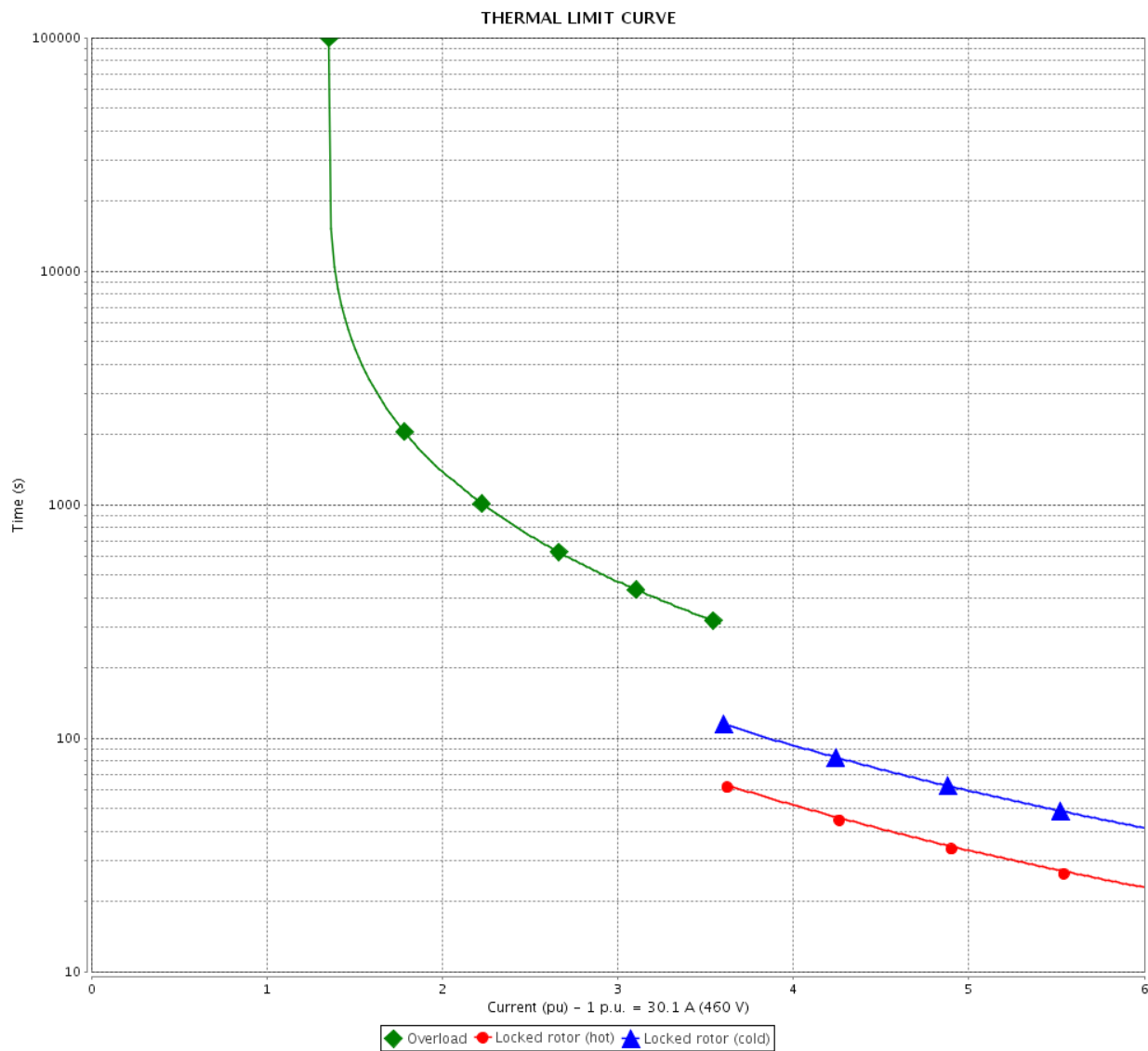
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THERMAL LIMIT CURVE

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VFD OPERATION CURVE

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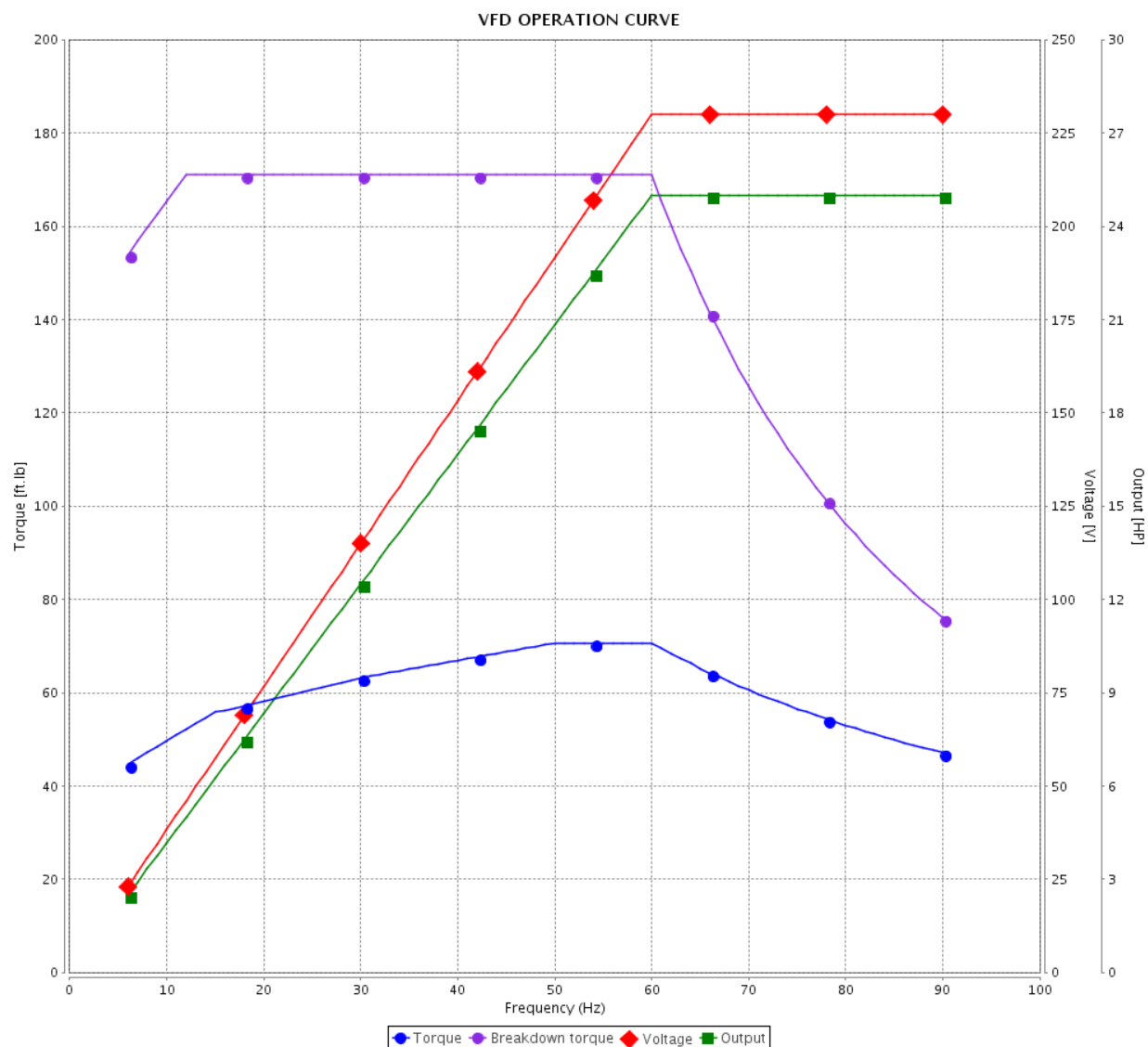


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