

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line		: Jet Pump - J type Standard Efficiency Three-Phase		Product code : 12658480
			Catalog # :	00236OS3EJPR56J-S
Frame	: 56J	Cooling method	: IC01 - ODP	
Insulation class	: F	Mounting	: F-1	
Duty cycle	: Cont.(S1)	Rotation ¹	: CCW	
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line	
Altitude	: 1000 m.a.s.l.	Approx. weight ²	: 27.7 lb	
Design	: A	Moment of inertia (J)	: 0.0774 sq.ft.lb	
Output [HP]	2	1.5	1.5	
Poles	2	2	2	
Frequency [Hz]	60	50	50	
Rated voltage [V]	230/460	190/380	220/415	
Rated current [A]	5.64/2.82	4.82/2.41	4.58/2.43	
L. R. Amperes [A]	39.5/19.7	35.2/17.6	35.3/18.7	
LRC [A]	7.0x(Code J)	7.3x(Code J)	7.7x(Code K)	
No load current [A]	2.60/1.30	2.60/1.30	2.83/1.50	
Rated speed [RPM]	3470	2885	2895	
Slip [%]	3.61	3.83	3.50	
Rated torque [ft.lb]	3.03	2.73	2.72	
Locked rotor torque [%]	229	240	270	
Breakdown torque [%]	250	280	310	
Service factor		1.20	1.20	
Temperature rise	80 K	80 K	80 K	
Locked rotor time	18s (cold) 10s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)	
Noise level ²	62.0 dB(A)	60.0 dB(A)	60.0 dB(A)	
Efficiency (%)	25%	76.7	76.7	74.1
	50%	77.0	77.1	75.1
	75%	78.5	79.9	78.9
	100%	78.5	79.8	79.6
Power Factor	25%	0.41	0.39	0.34
	50%	0.66	0.67	0.60
	75%	0.79	0.80	0.74
	100%	0.85	0.87	0.82
Bearing type	: <u>Drive end</u> 6203 2RS <u>Non drive end</u> 6202 2RS	Foundation loads		
Sealing	: Without Without Bearing Seal Bearing Seal	Max. traction	: 69 lb	
Lubrication interval	: - -	Max. compression	: 96 lb	
Lubricant amount	: - -			
Lubricant type	: Mobil Polyrex EM			
Notes USABLE @208V 6.24A SF 1.00 SFA 6.24A				
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

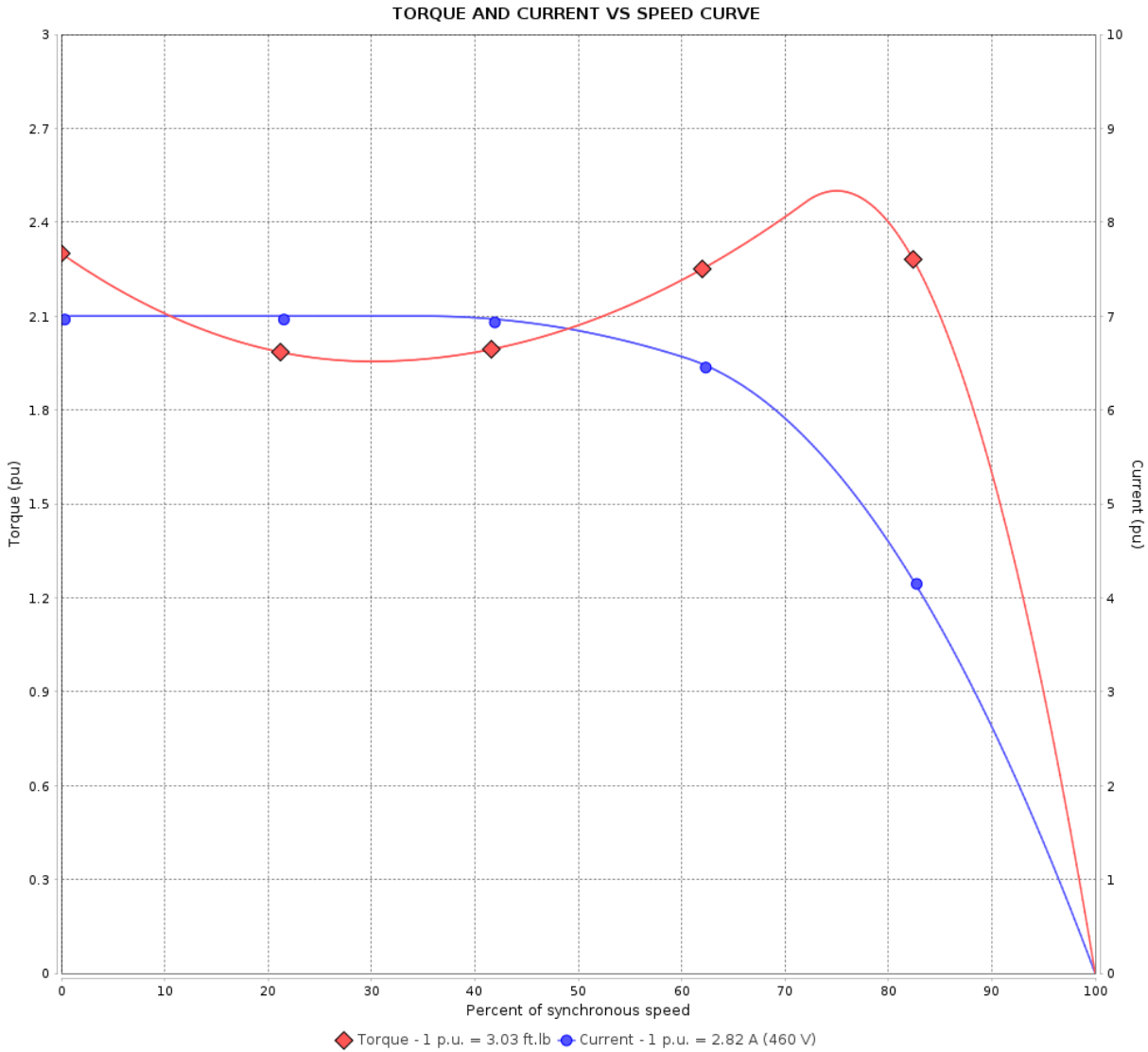


Customer :

Product line : Jet Pump - J type Standard Efficiency
Three-Phase

Product code : 12658480

Catalog # : 00236OS3EJPR56J-S



Performance : 230/460 V 60 Hz 2P

Rated current : 5.64/2.82 A
 LRC : 7.0
 Rated torque : 3.03 ft.lb
 Locked rotor torque : 229 %
 Breakdown torque : 250 %
 Rated speed : 3470 rpm

Moment of inertia (J) : 0.0774 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K
 Design : A

Locked rotor time : 18s (cold) 10s (hot)

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TORQUE AND CURRENT VS SPEED CURVE



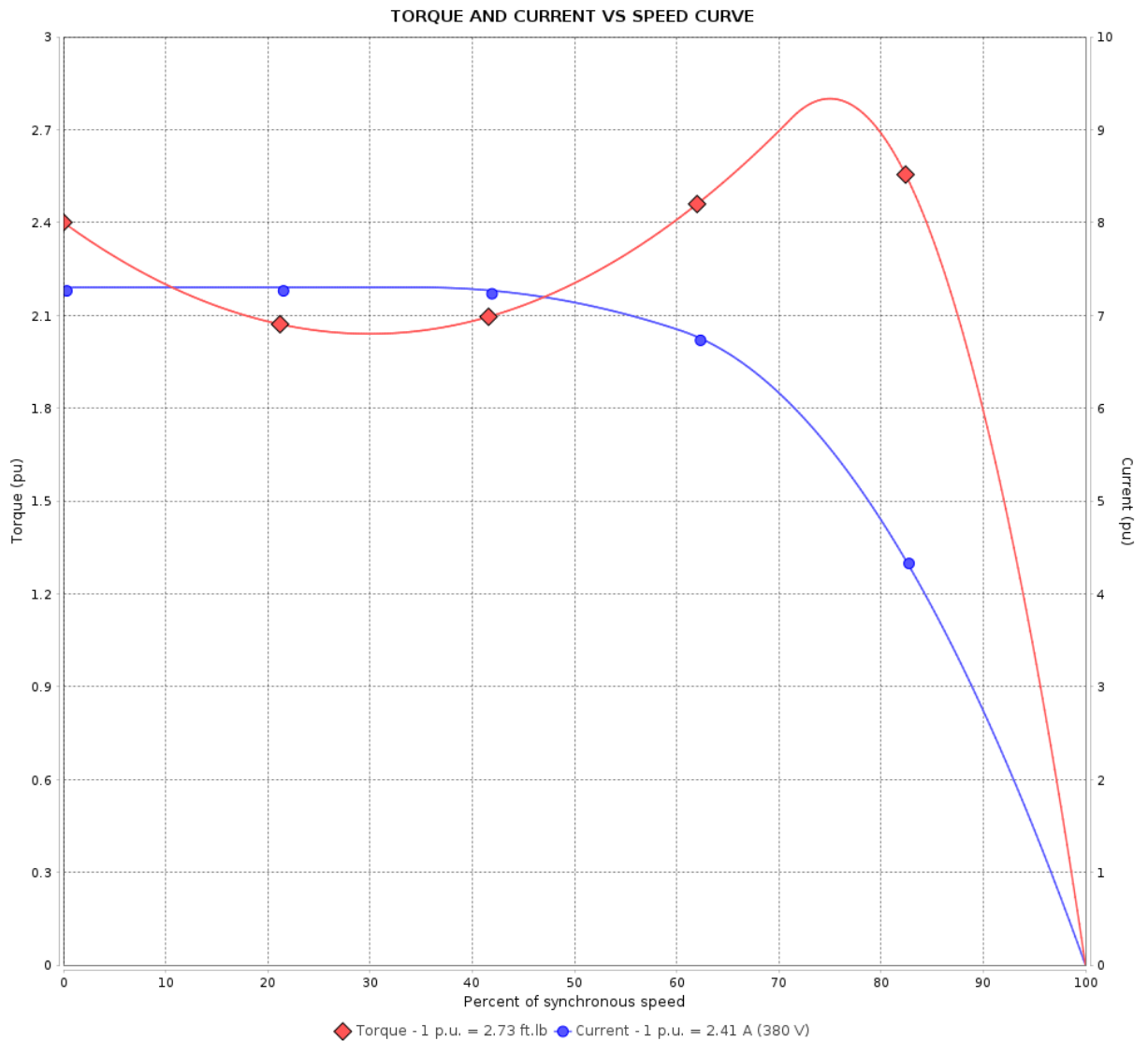
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Customer :

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Product code : 12658480

Catalog # : 00236OS3EJPR56J-S



Performance : 190/380 V 50 Hz 2P

Rated current : 4.82/2.41 A
 LRC : 7.3
 Rated torque : 2.73 ft.lb
 Locked rotor torque : 240 %
 Breakdown torque : 280 %
 Rated speed : 2885 rpm

Moment of inertia (J) : 0.0774 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.20
 Temperature rise : 80 K
 Design : A

Locked rotor time : 0s (cold) 0s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

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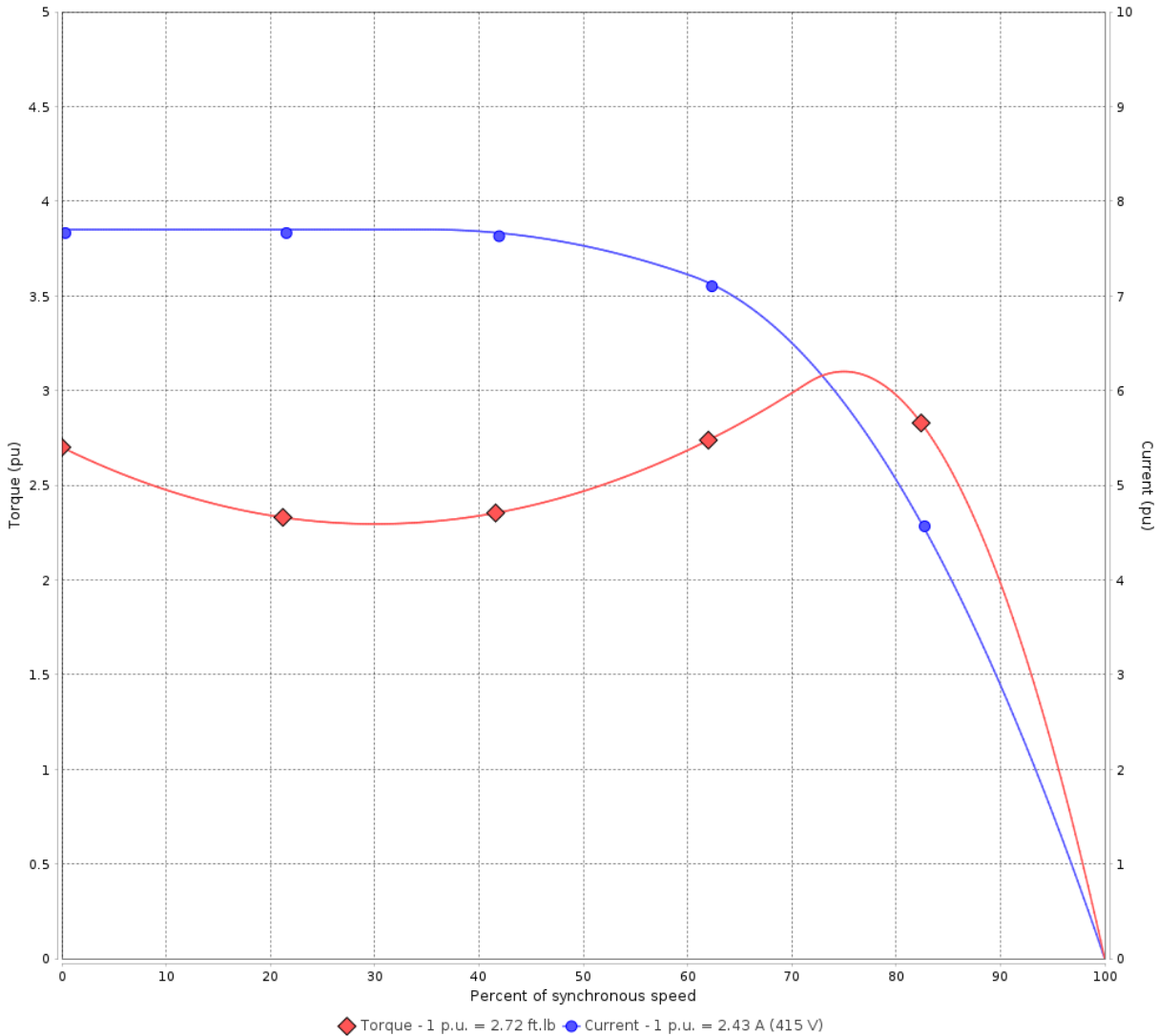
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TORQUE AND CURRENT VS SPEED CURVE



Performance : 220/415 V 50 Hz 2P

Rated current : 4.58/2.43 A
LRC : 7.7
Rated torque : 2.72 ft.lb
Locked rotor torque : 270 %
Breakdown torque : 310 %
Rated speed : 2895 rpm

Moment of inertia (J) : 0.0774 sq.ft.lb
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Insulation class : F
Service factor : 1.20
Temperature rise : 80 K
Design : A

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LOAD PERFORMANCE CURVE

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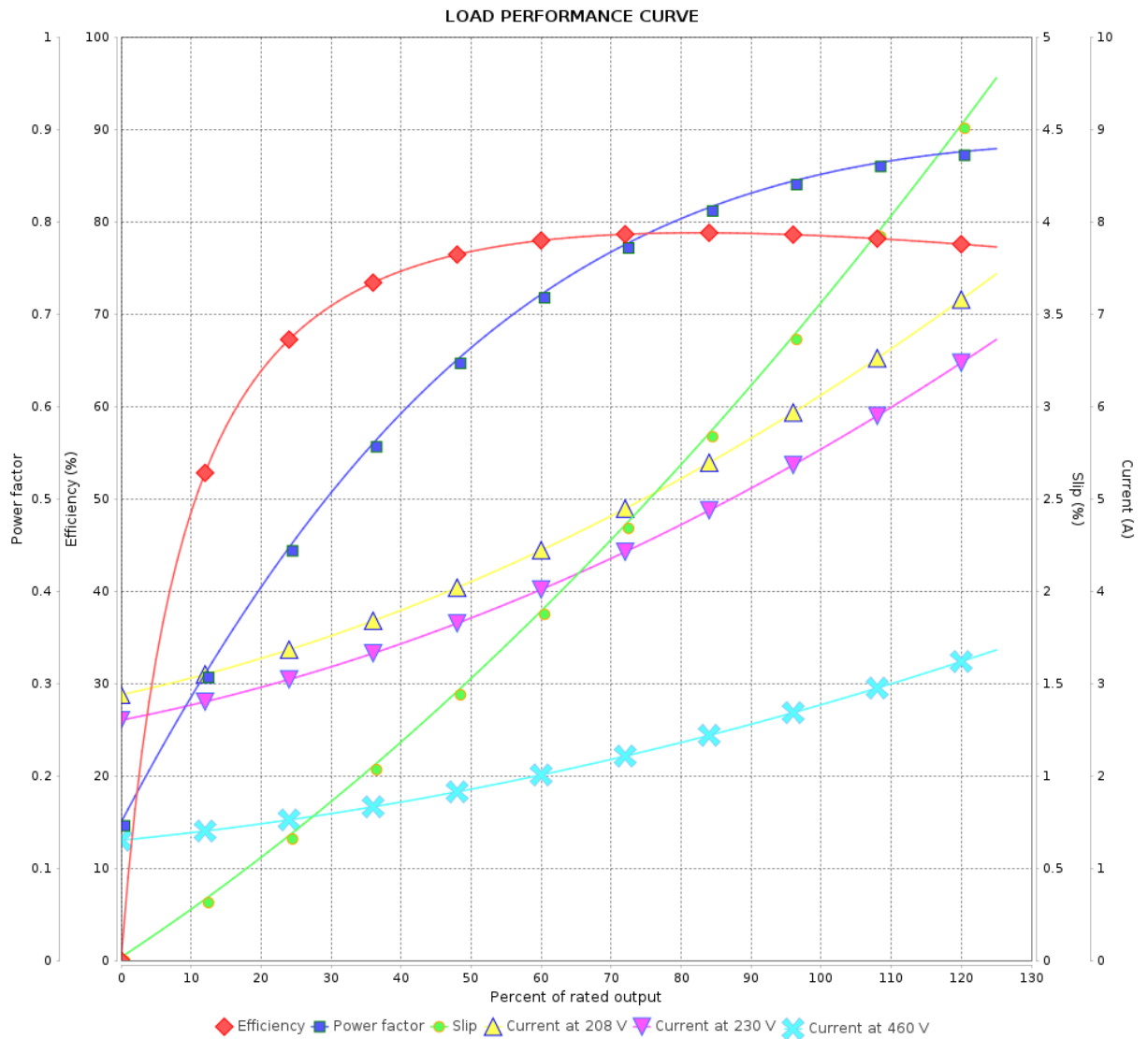


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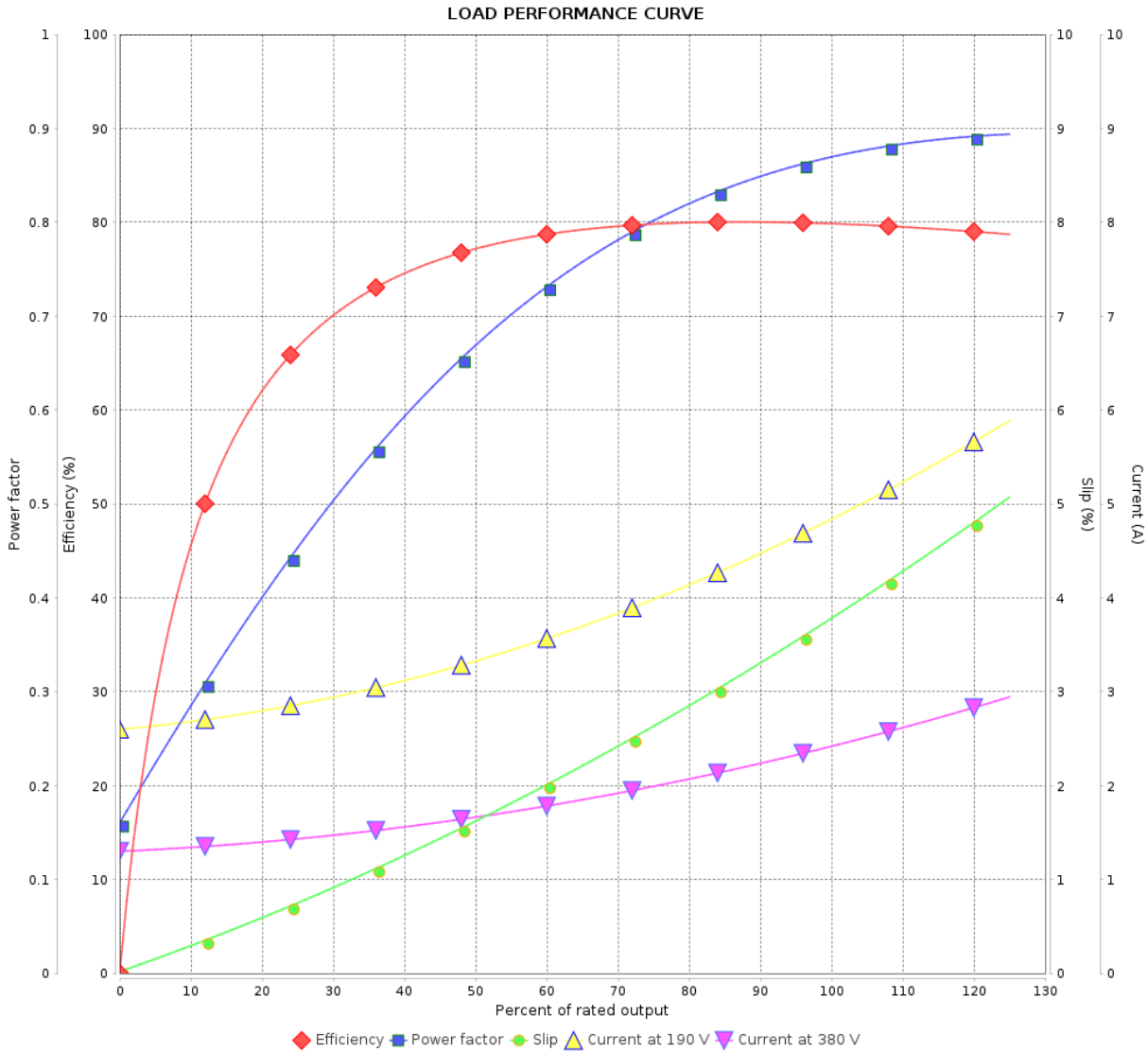


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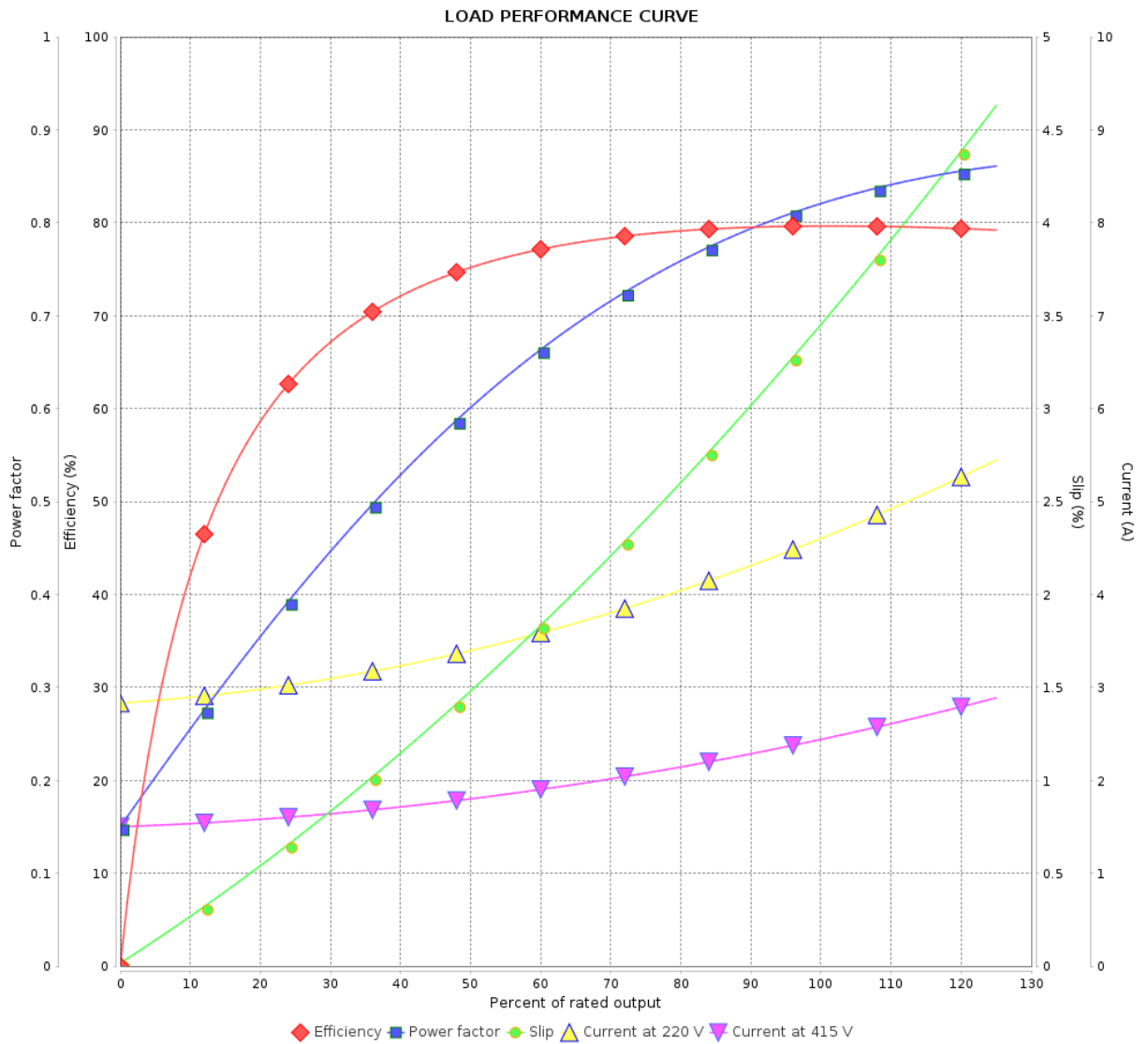


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THERMAL LIMIT CURVE

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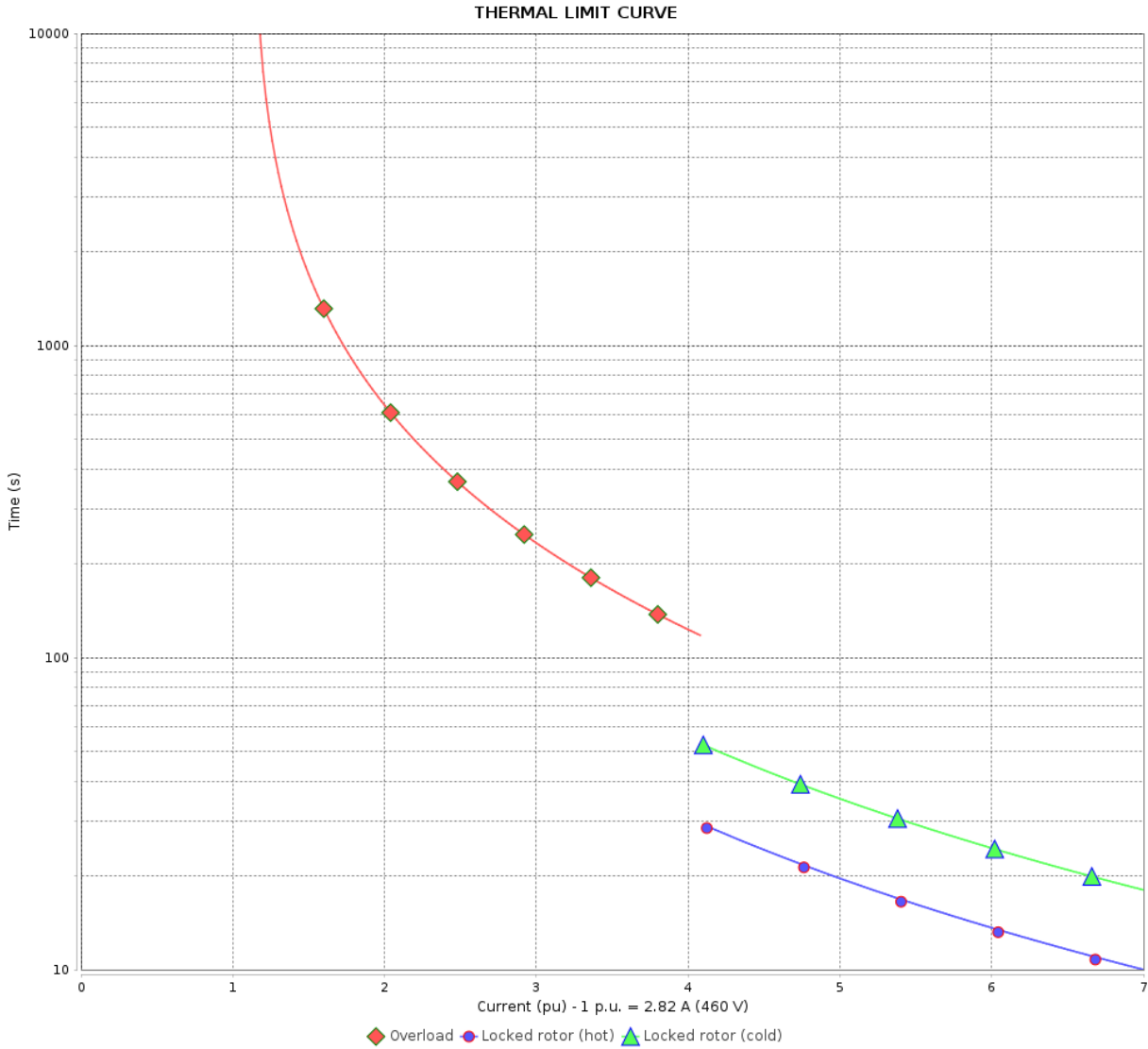


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Heating constant
 Cooling constant

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THERMAL LIMIT CURVE



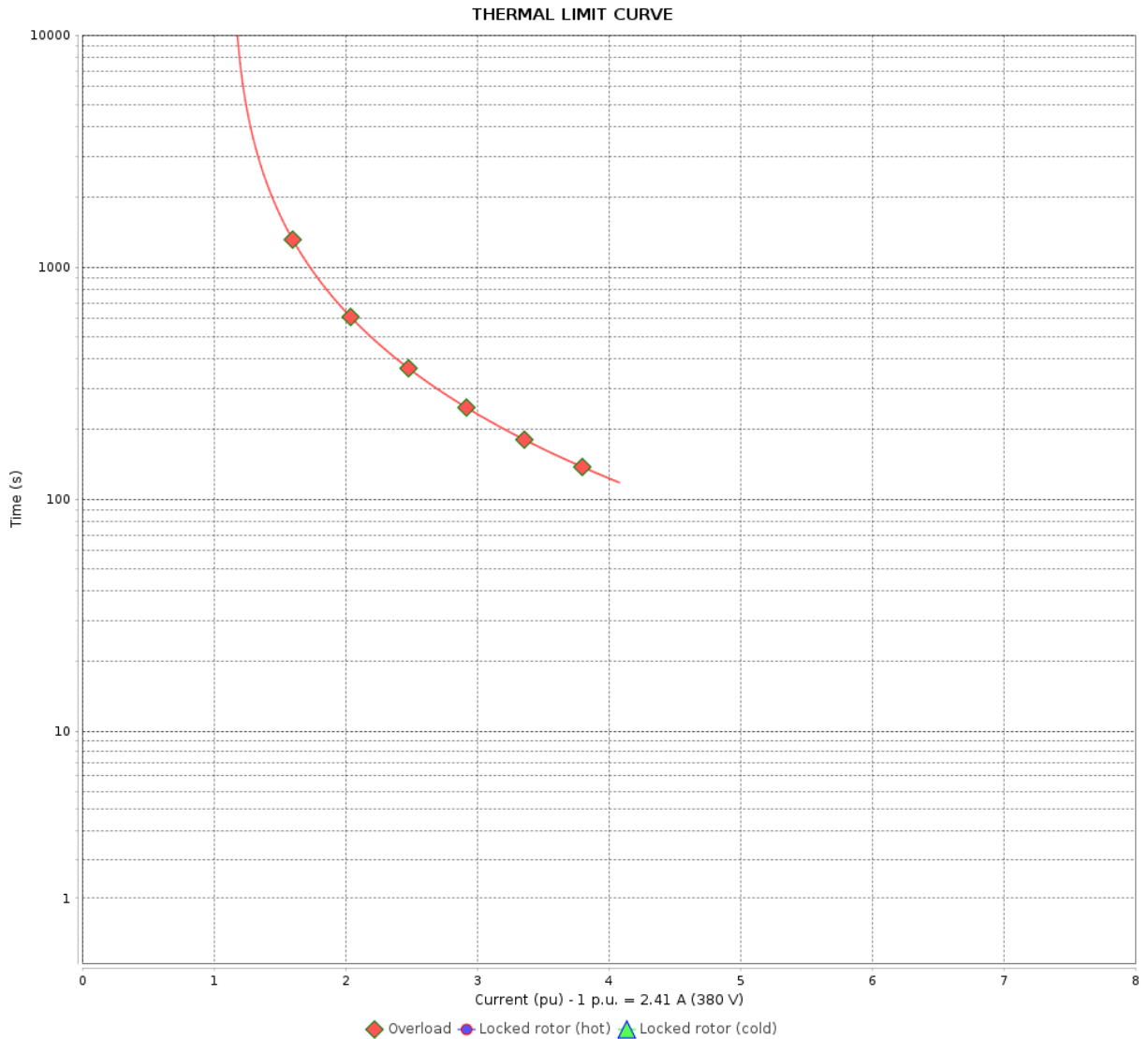
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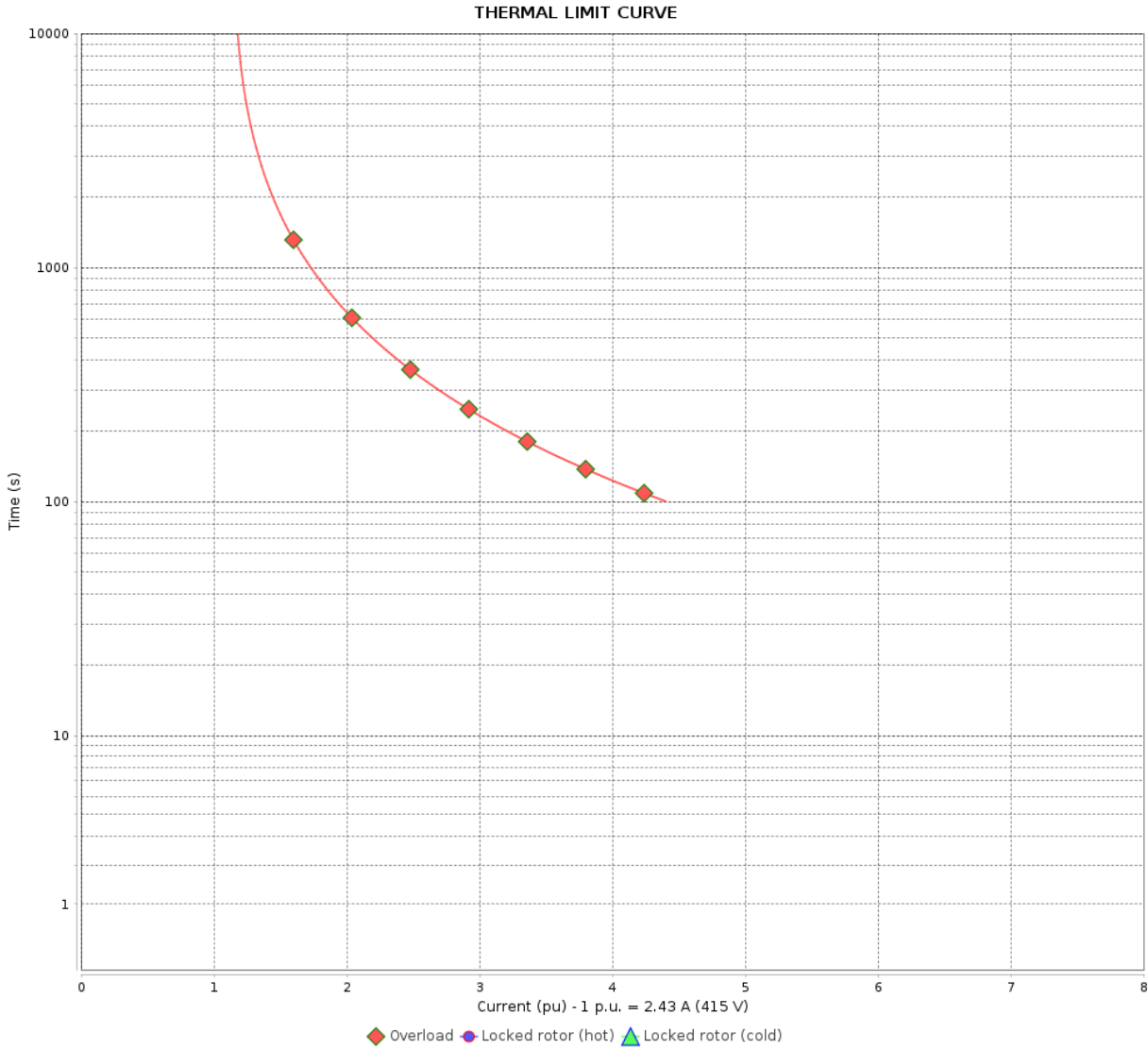


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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

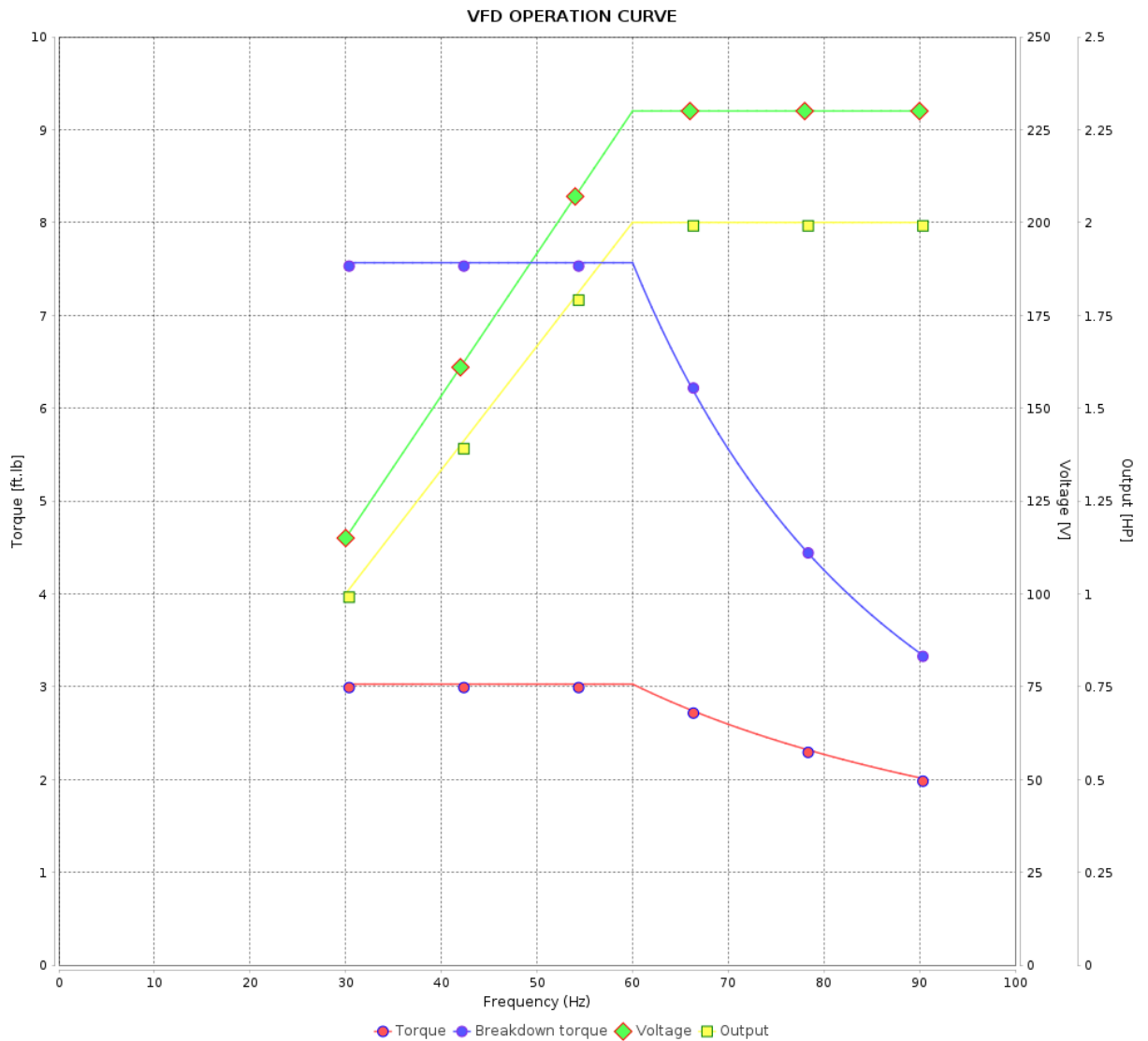


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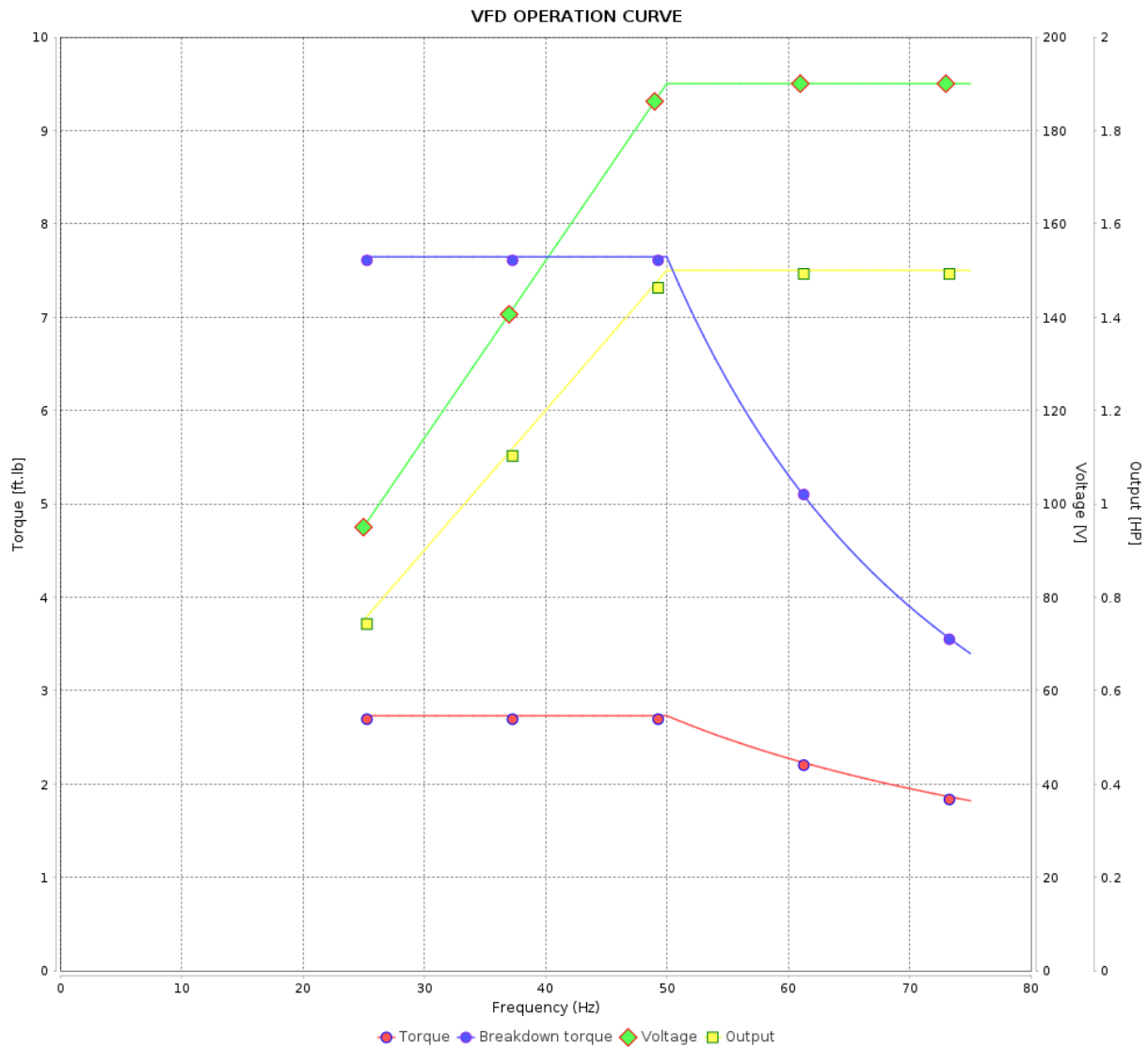


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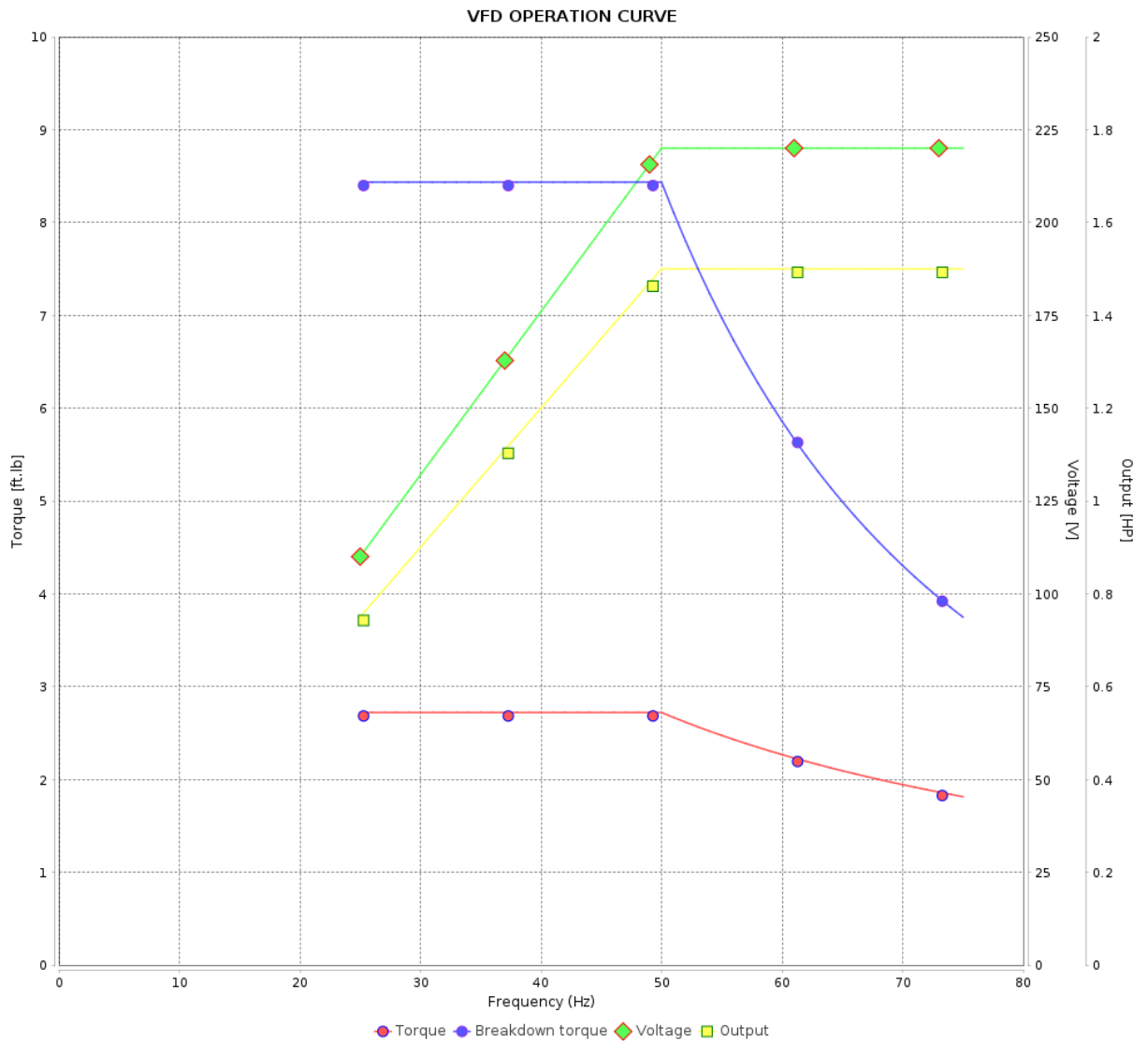


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MADE IN MEXICO

MAT: 12658480

W01.T00IC0X0X

MODEL 002360S3EJPR56J-S



PH 3	Hz 60	HP 2.0
FR 56J		KW 1.5
DUTY CONT.		V 208-230/460
ALT 1000 m.a.s.l		A 6.24-5.64/2.82
INS CL F AT 80K		SFA 6.24-6.77/3.38
AMB 40°C	DES A	SF 1.20
ENCL ODP	CODE J	PF 0.85
USABLE @ 208V SF1.00		RPM 3470
		NEMA NOM. EFF 78.5%

ALTERNATE RATING: 1.5HP 50Hz 190-220/380-415V SF1.40
4.82-4.86/2.41-2.47A 2885RPM EFF 79.1% (IE1) IEC 60034-1

Inverter duty motor For 80Hz use on VPWM 1000:1 VT, 2:1 CT

DE 6203-2RS	ODE 6202-2RS	MOBIL POLYREX EM
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T1-BLU T2-WHT
 T3-ORG T4-YEL
 T5-BLK T6-GRY
 T7-PNK T8-RED
 T9-BRK RED



WARNING: Motor must be grounded in accordance with local and national electrical codes to prevent serious electrical shocks. Disconnect power source before servicing unit.

AVERTISSEMENT: Le moteur doit être mis à la terre conformément aux codes électriques locaux et nationaux afin d'éviter tout choc électrique grave. Déconnectez l'alimentation avant l'entretien de la machine.

