

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line : IE3 Three-Phase	Product code : 12867354			
Frame : 90L Insulation class : F Duty cycle : S1 Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l. Protection degree : IP55 Design : N	Cooling method : IC411 - TEFC Mounting : B3T Rotation ¹ : Both (CW and CCW) Starting method : Direct On Line Approx. weight ² : 52.4 lb Moment of inertia (J) : 0.0610 sq.ft.lb			
Output [kW]	2.2			
Poles	2			
Frequency [Hz]	50			
Rated voltage [V]	220/380			
Rated current [A]	7.81/4.52			
L. R. Amperes [A]	54.7/31.6			
LRC [A]	7.0			
No load current [A]	3.11/1.80			
Rated speed [RPM]	2850			
Slip [%]	5.00			
Rated torque [ft.lb]	5.40			
Locked rotor torque [%]	300			
Breakdown torque [%]	300			
Service factor	1.00			
Temperature rise	80 K			
Locked rotor time	21s (cold) 12s (hot)			
Noise level ²	62.0 dB(A)			
Efficiency (%)	25%			
	50%			
	75%			
	100%			
Power Factor	25%			
	50%			
	75%			
	100%			
Bearing type : Drive end 6205 ZZ Non drive end 6204 ZZ Sealing : V'Ring V'Ring Lubrication interval : - - Lubricant amount : - - Lubricant type : Mobil Polyrex EM	Foundation loads Max. traction : 144 lb Max. compression : 196 lb			
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 IEC 60034-1.			
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Customer : _____

Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermistor - 2 wires	1 x Phase	155 °C

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TORQUE AND CURRENT VS SPEED CURVE

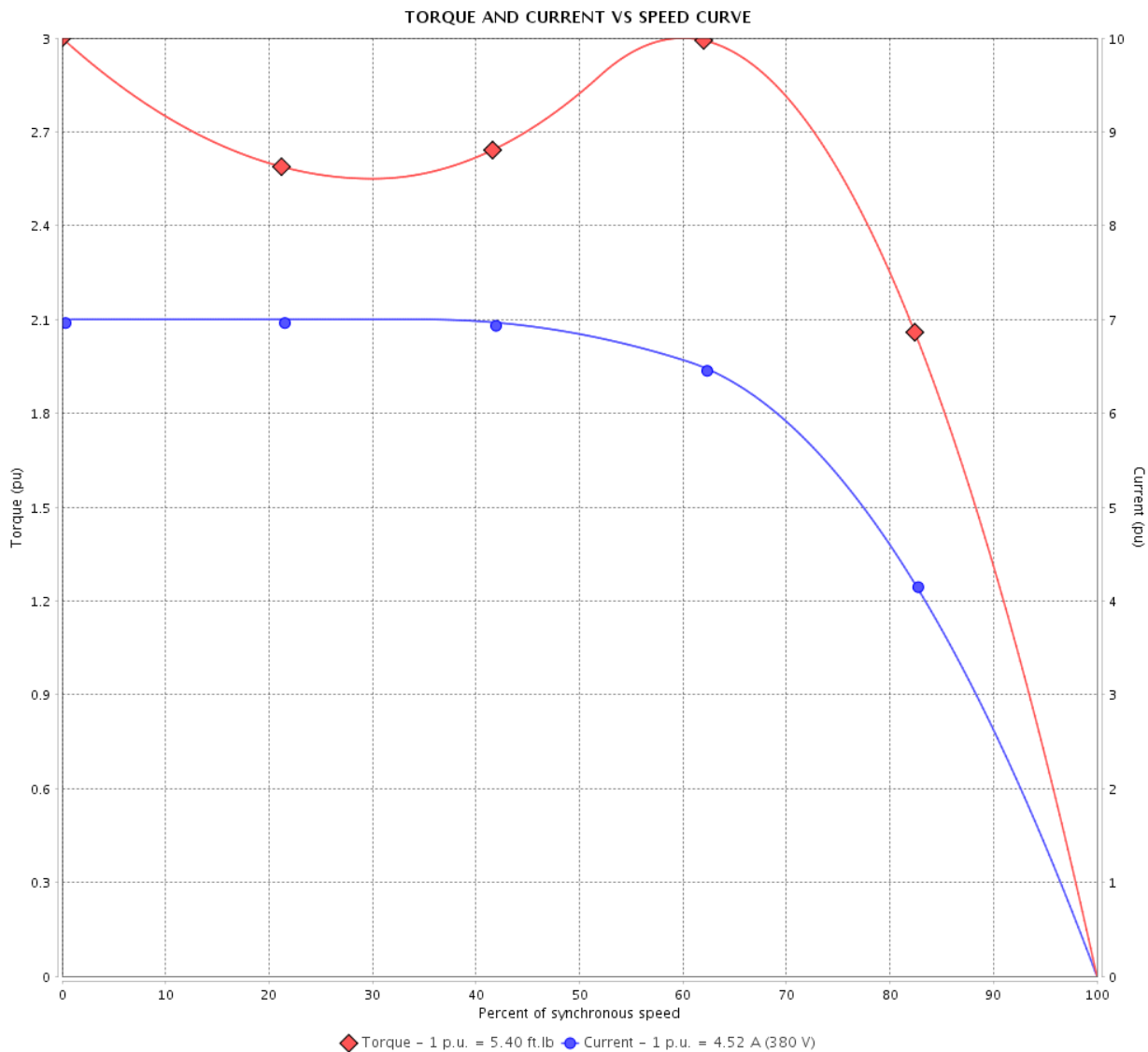


Three Phase Induction Motor - Squirrel Cage

Customer : _____

Product line : IE3 Three-Phase

Product code : 12867354



Performance : 220/380 V 50 Hz 2P

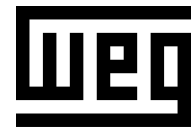
Rated current	: 7.81/4.52 A	Moment of inertia (J)	: 0.0610 sq.ft.lb
LRC	: 7.0	Duty cycle	: S1
Rated torque	: 5.40 ft.lb	Insulation class	: F
Locked rotor torque	: 300 %	Service factor	: 1.00
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 2850 rpm	Design	: N

Locked rotor time : 21s (cold) 12s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

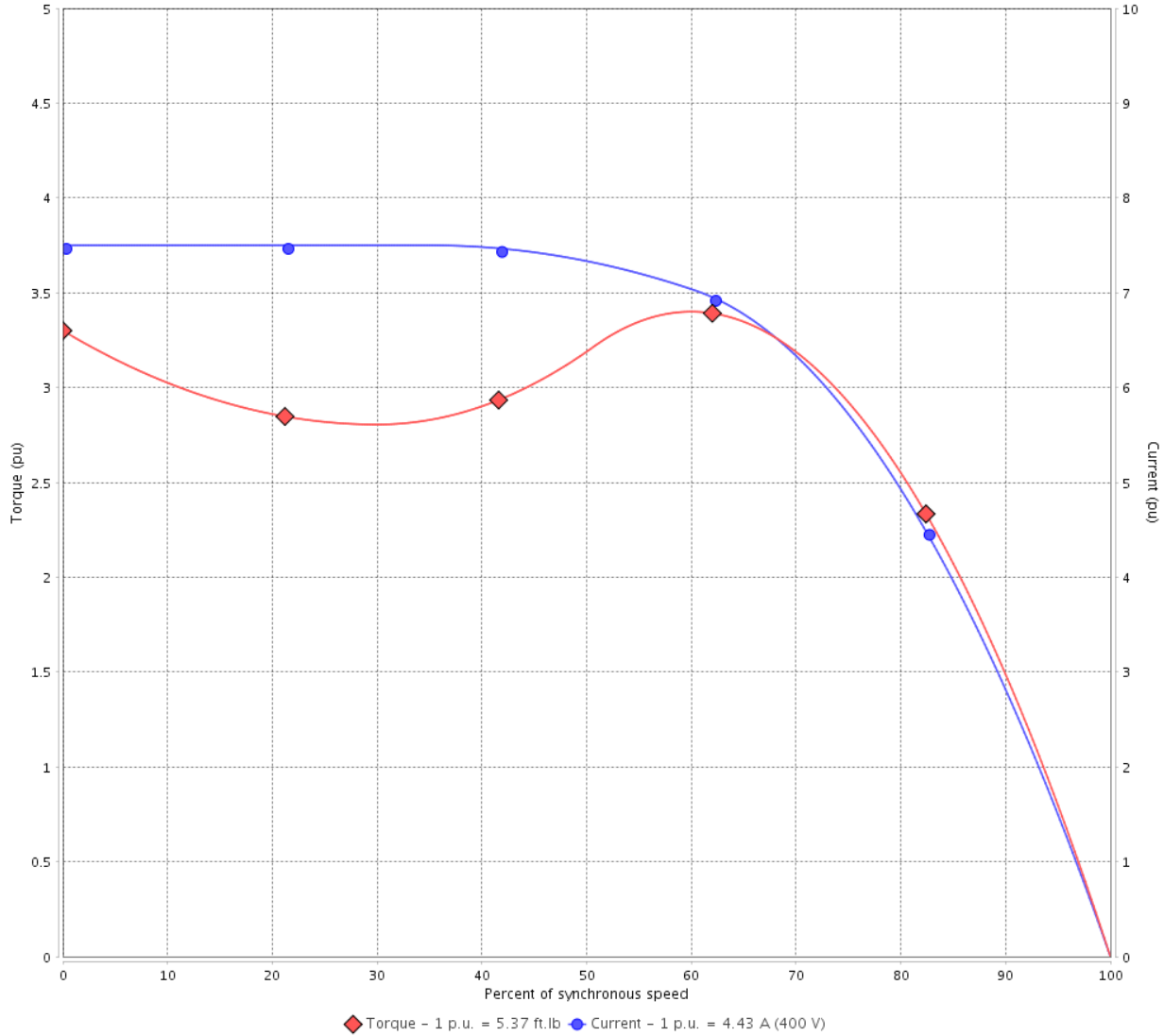


Customer :

Product line : IE3 Three-Phase

Product code : 12867354

TORQUE AND CURRENT VS SPEED CURVE



Performance : 230/400 V 50 Hz 2P

Rated current	: 7.70/4.43 A	Moment of inertia (J)	: 0.0610 sq.ft.lb
LRC	: 7.5	Duty cycle	: S1
Rated torque	: 5.37 ft.lb	Insulation class	: F
Locked rotor torque	: 340 %	Service factor	: 1.00
Breakdown torque	: 340 %	Temperature rise	: 80 K
Rated speed	: 2870 rpm	Design	: N

Locked rotor time : 21s (cold) 12s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

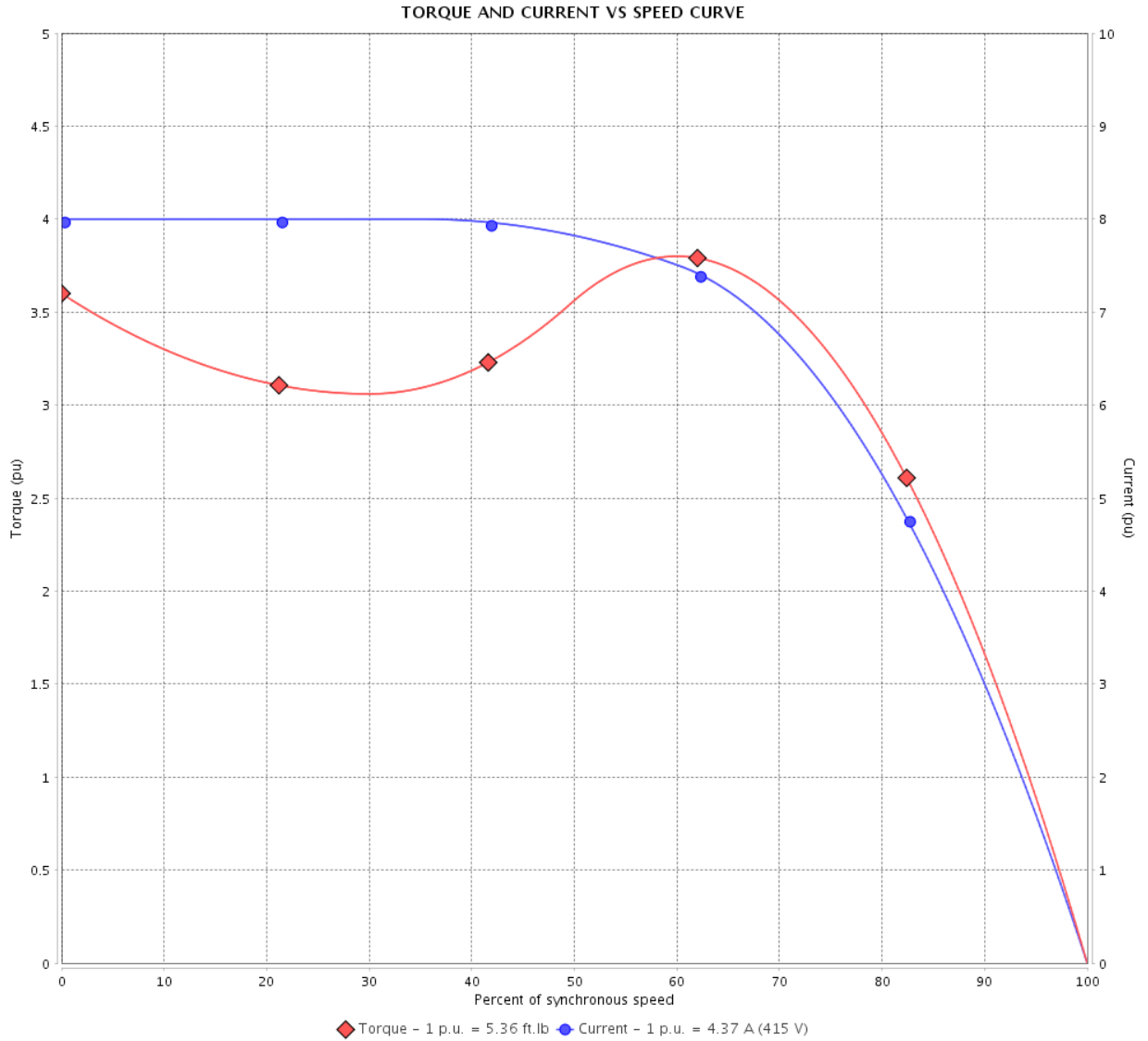
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : IE3 Three-Phase

Product code : 12867354



Performance : 240/415 V 50 Hz 2P

Rated current	: 7.56/4.37 A	Moment of inertia (J)	: 0.0610 sq.ft.lb
LRC	: 8.0	Duty cycle	: S1
Rated torque	: 5.36 ft.lb	Insulation class	: F
Locked rotor torque	: 380 %	Service factor	: 1.00
Breakdown torque	: 380 %	Temperature rise	: 80 K
Rated speed	: 2880 rpm	Design	: N

Locked rotor time : 21s (cold) 12s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

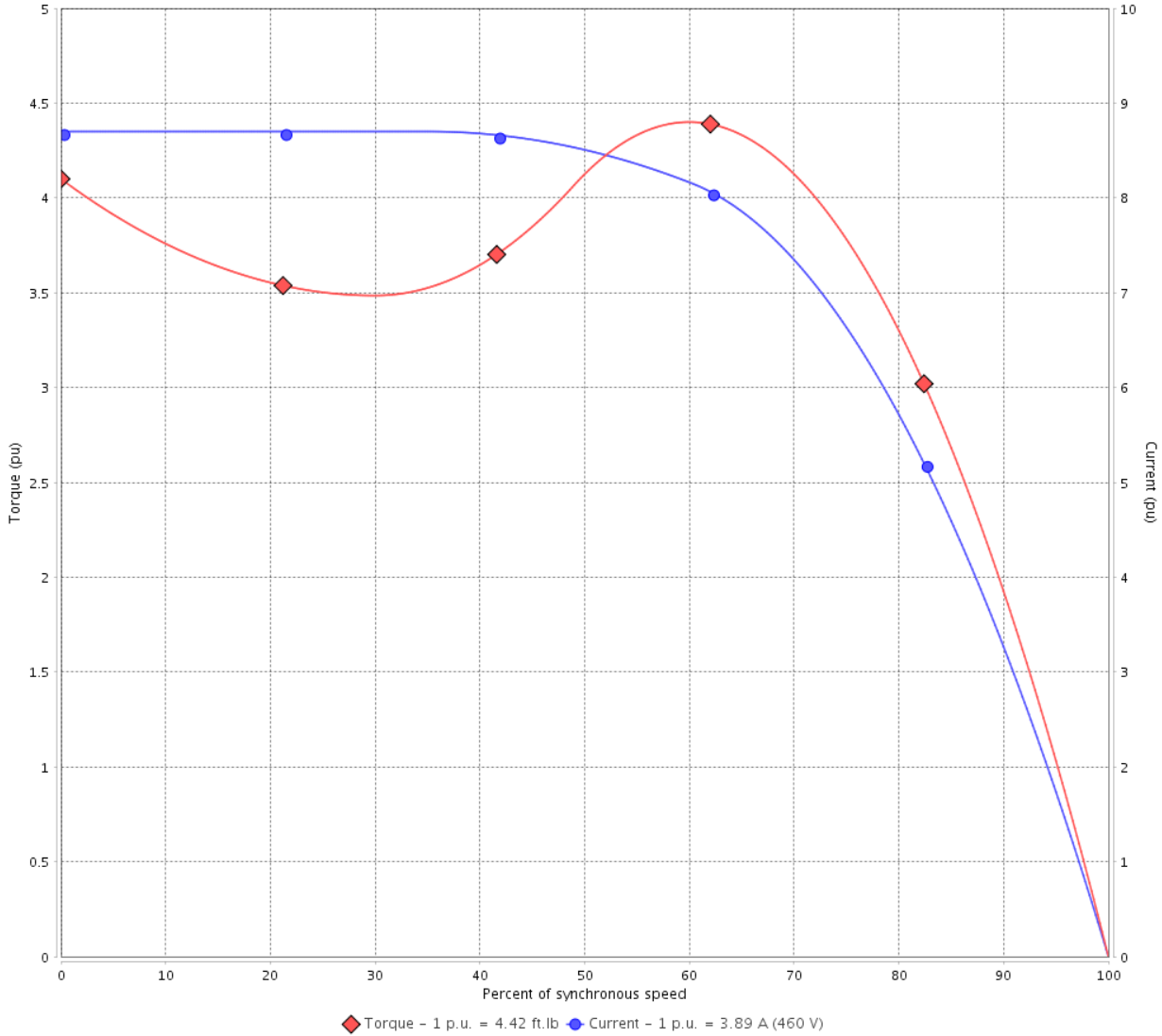


Customer :

Product line : IE3 Three-Phase

Product code : 12867354

TORQUE AND CURRENT VS SPEED CURVE



Performance : 460 V 60 Hz 2P

Rated current	: 3.89 A	Moment of inertia (J)	: 0.0610 sq.ft.lb
LRC	: 8.7	Duty cycle	: S1
Rated torque	: 4.42 ft.lb	Insulation class	: F
Locked rotor torque	: 430 %	Service factor	: 1.00
Breakdown torque	: 440 %	Temperature rise	: 80 K
Rated speed	: 3490 rpm	Design	: N

Locked rotor time : 21s (cold) 12s (hot)

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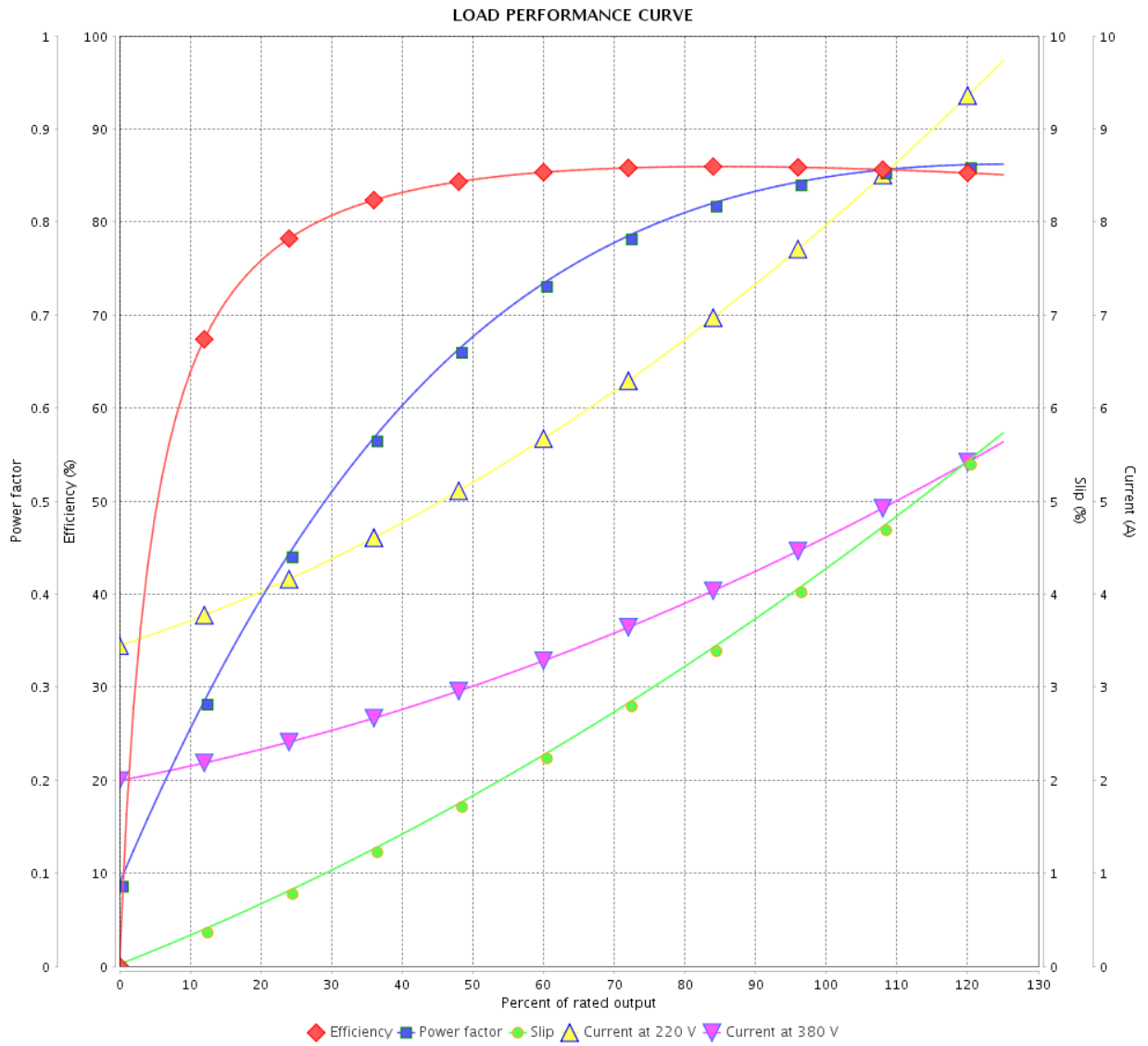
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : IE3 Three-Phase

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Performance : 220/380 V 50 Hz 2P

Rated current : 7.81/4.52 A
 LRC : 7.0
 Rated torque : 5.40 ft.lb
 Locked rotor torque : 300 %
 Breakdown torque : 300 %
 Rated speed : 2850 rpm

Moment of inertia (J) : 0.0610 sq.ft.lb
 Duty cycle : S1
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : N

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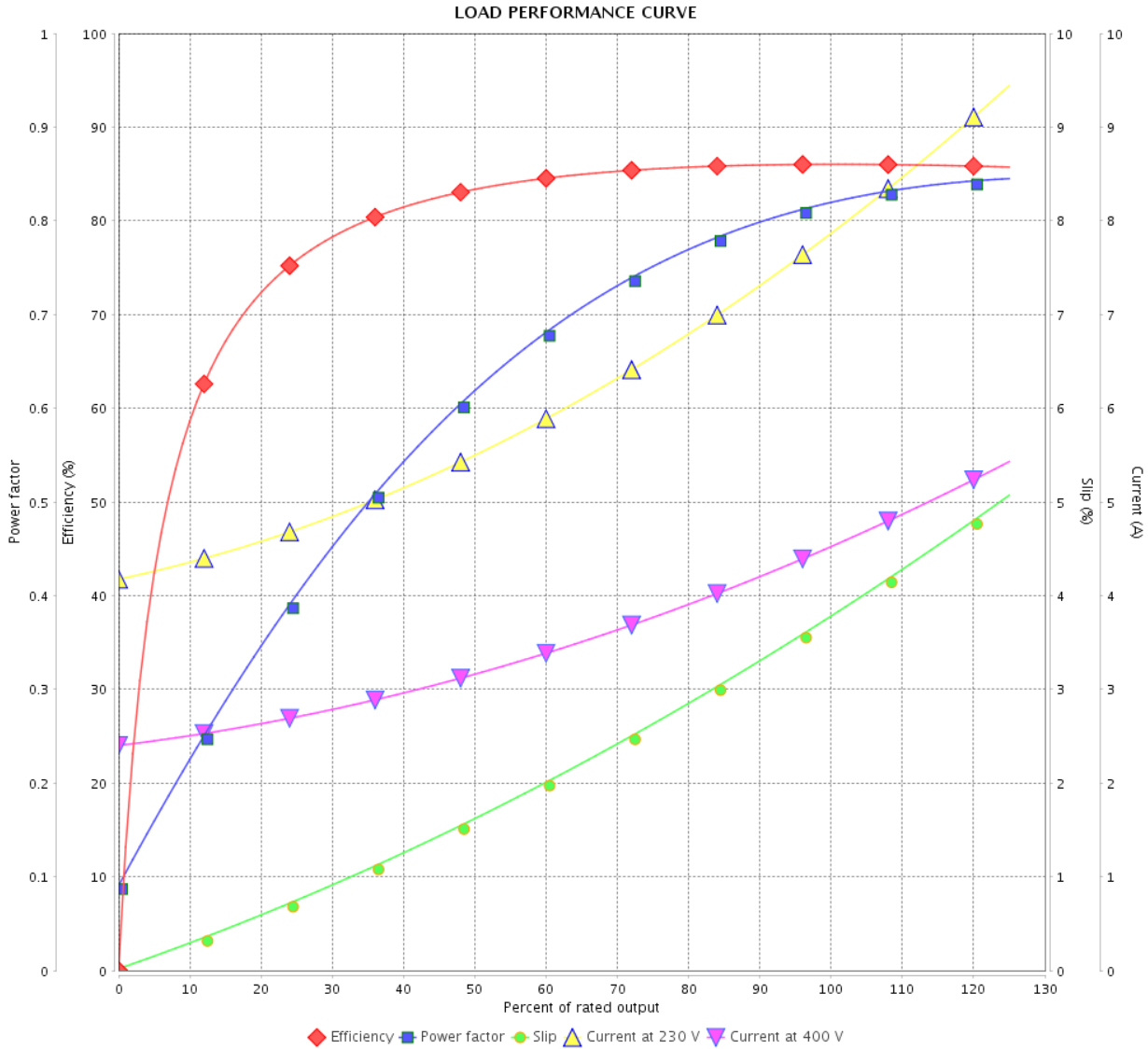
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 Breakdown torque : 340 %
 Rated speed : 2870 rpm

Moment of inertia (J) : 0.0610 sq.ft.lb
 Duty cycle : S1
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : N

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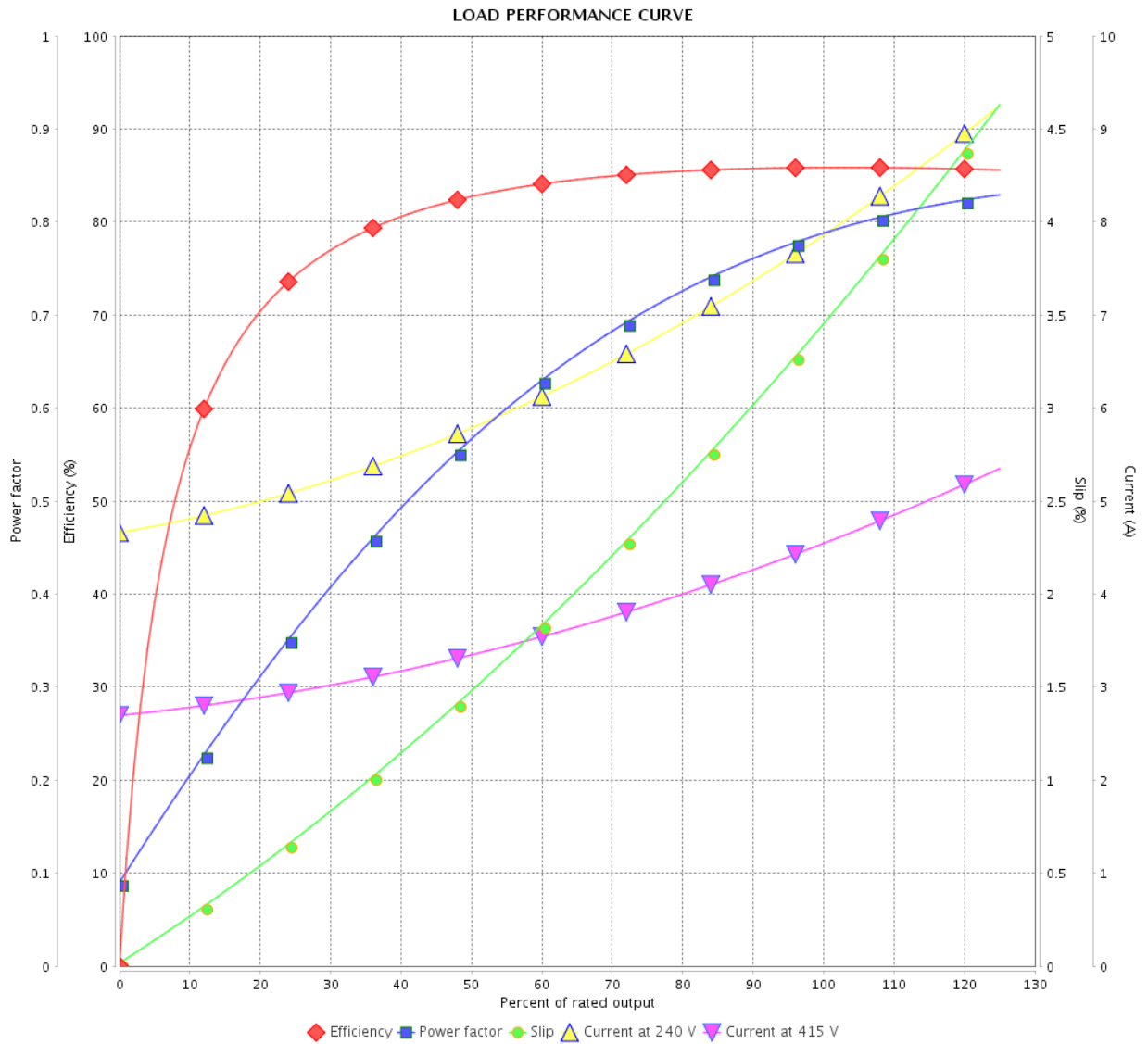
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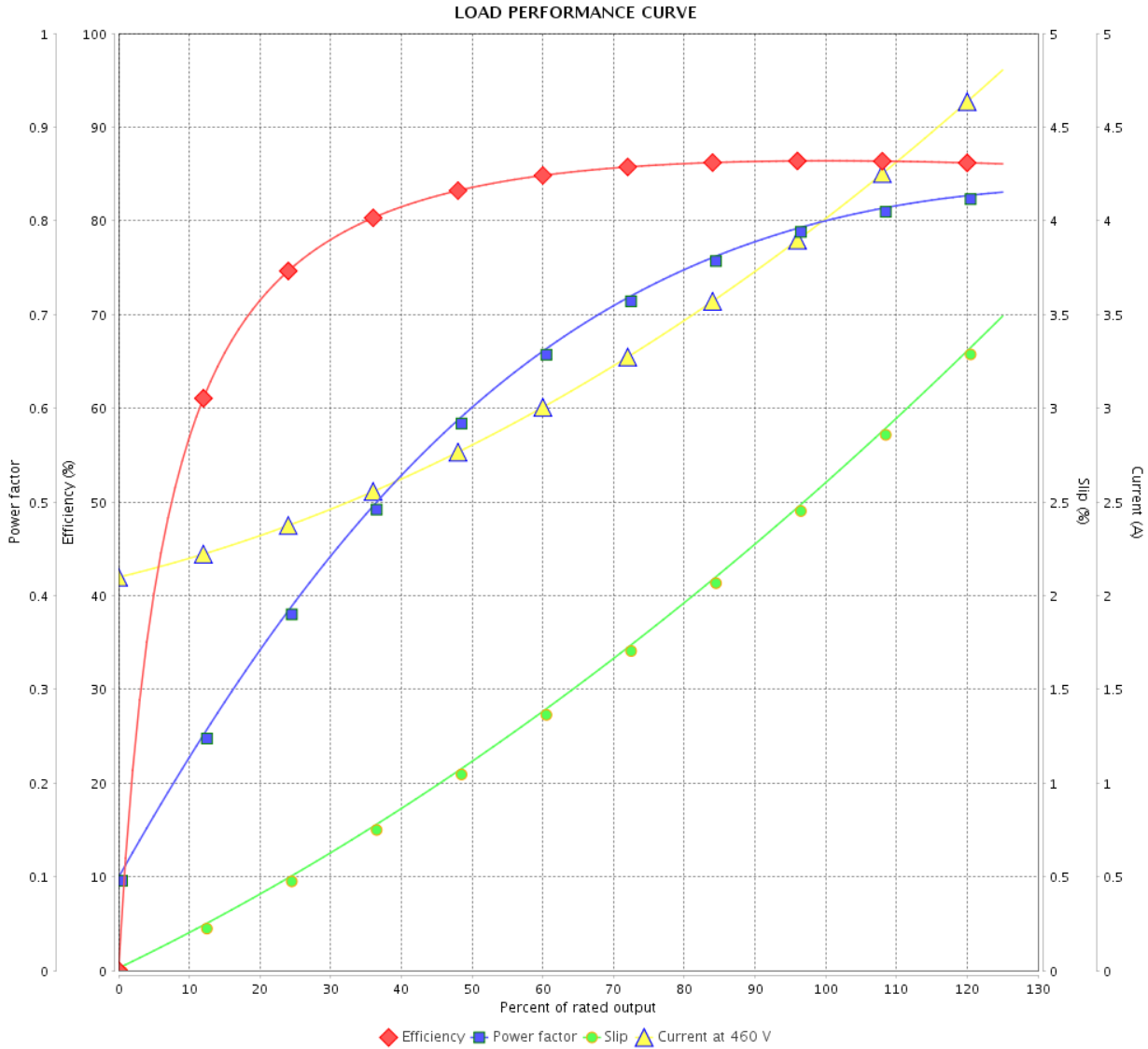
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 Duty cycle : S1
 Insulation class : F
 Service factor : 1.00
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THERMAL LIMIT CURVE

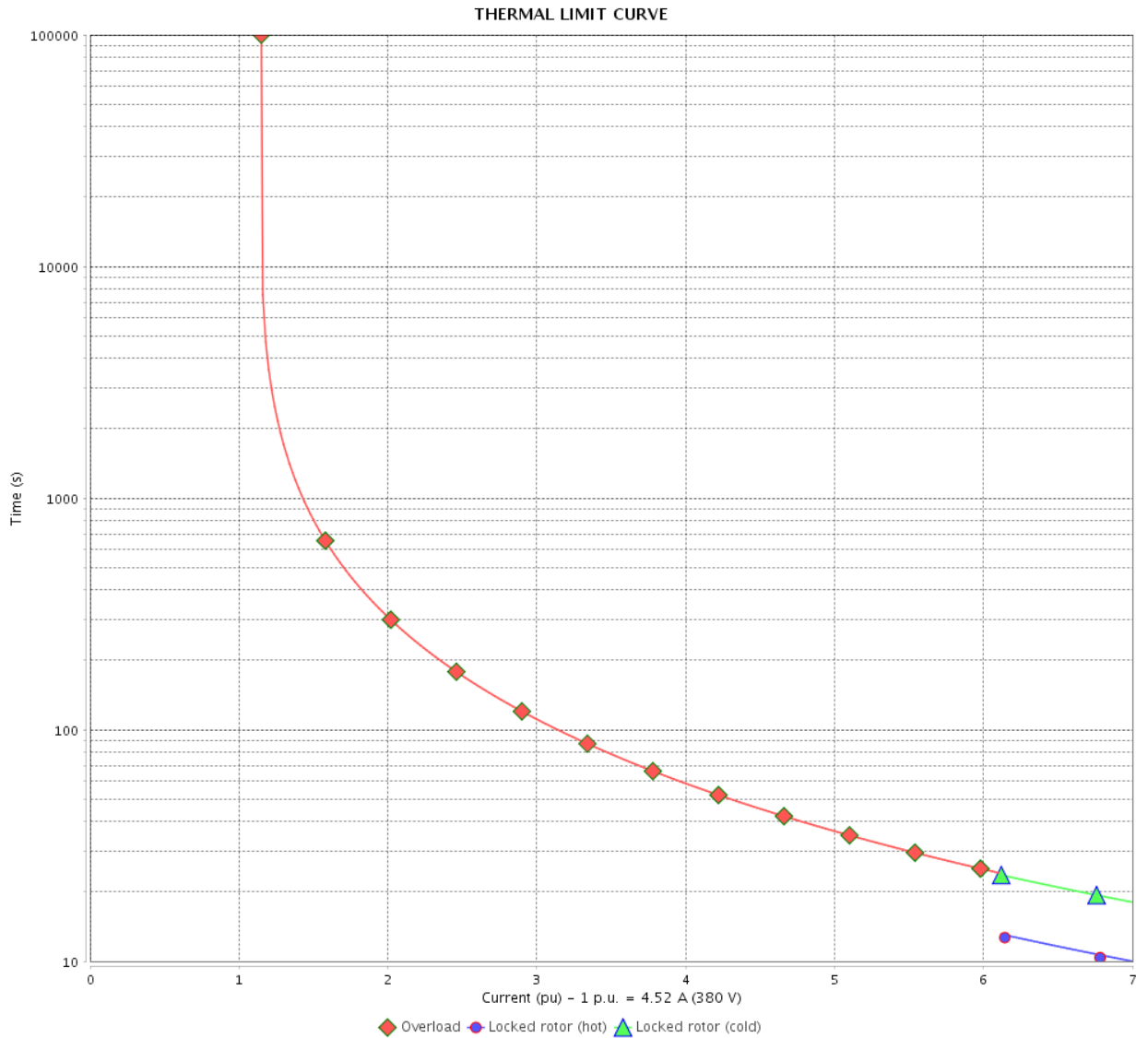
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 Duty cycle : S1
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : N

Heating constant

Cooling constant

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THERMAL LIMIT CURVE

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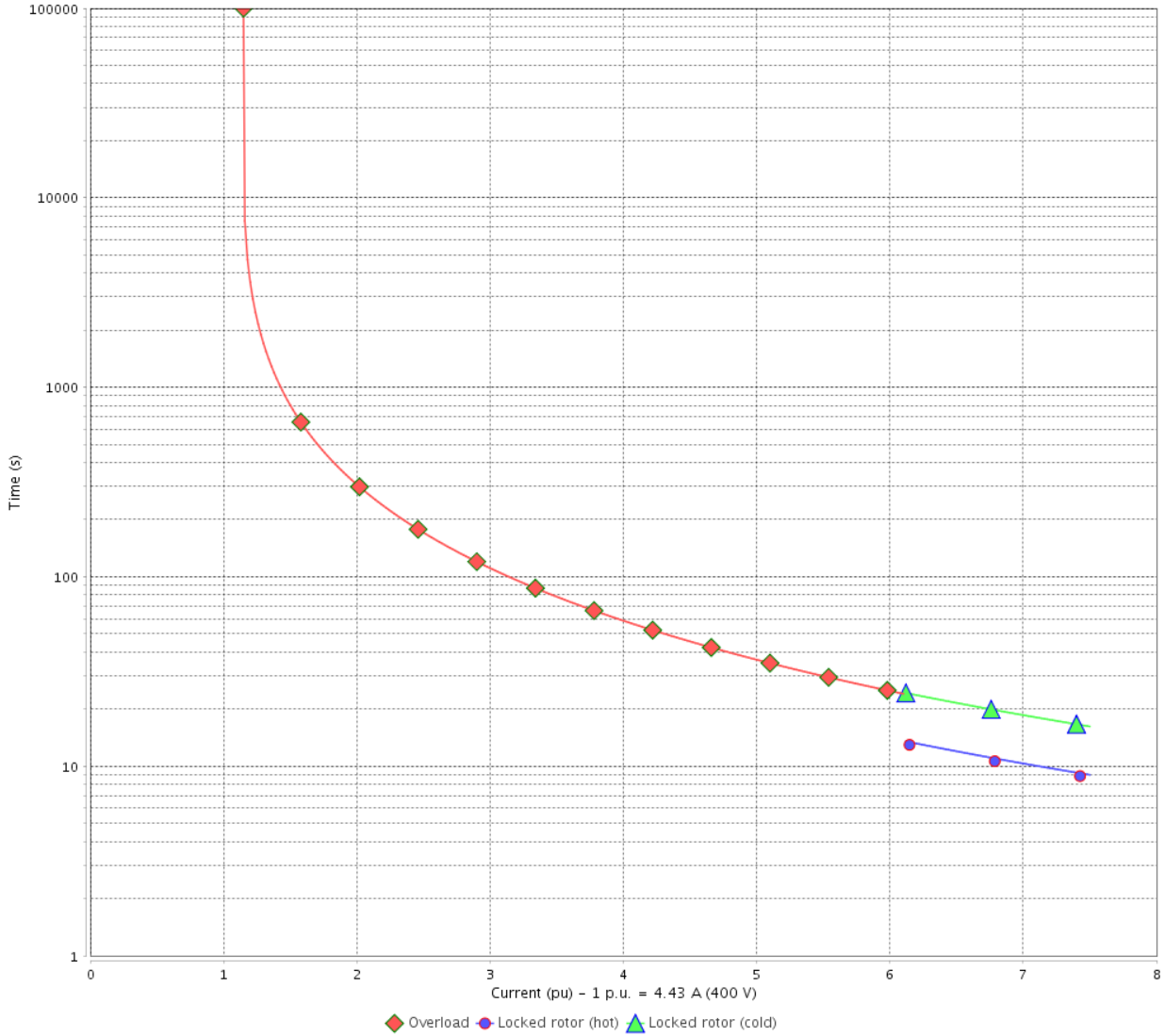


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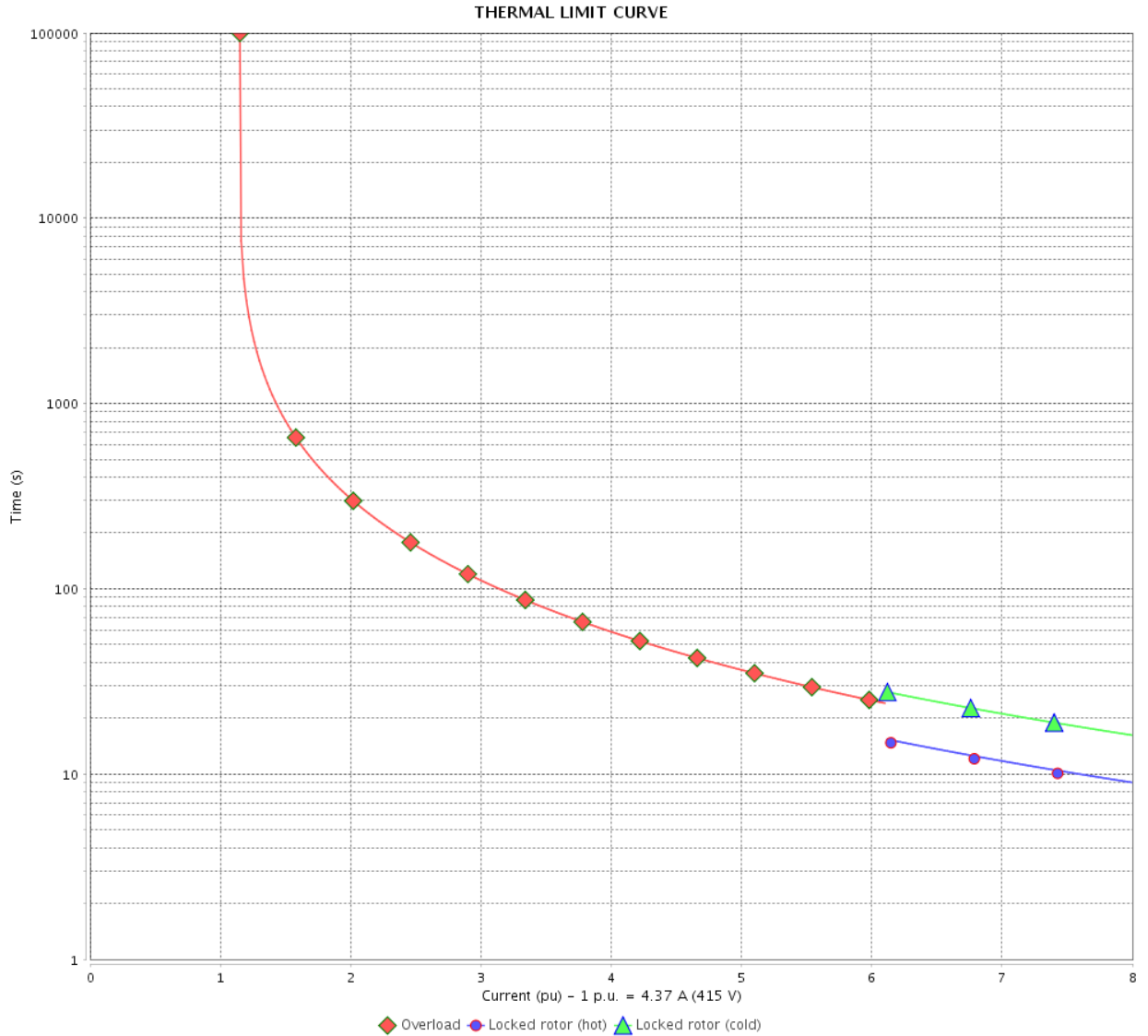


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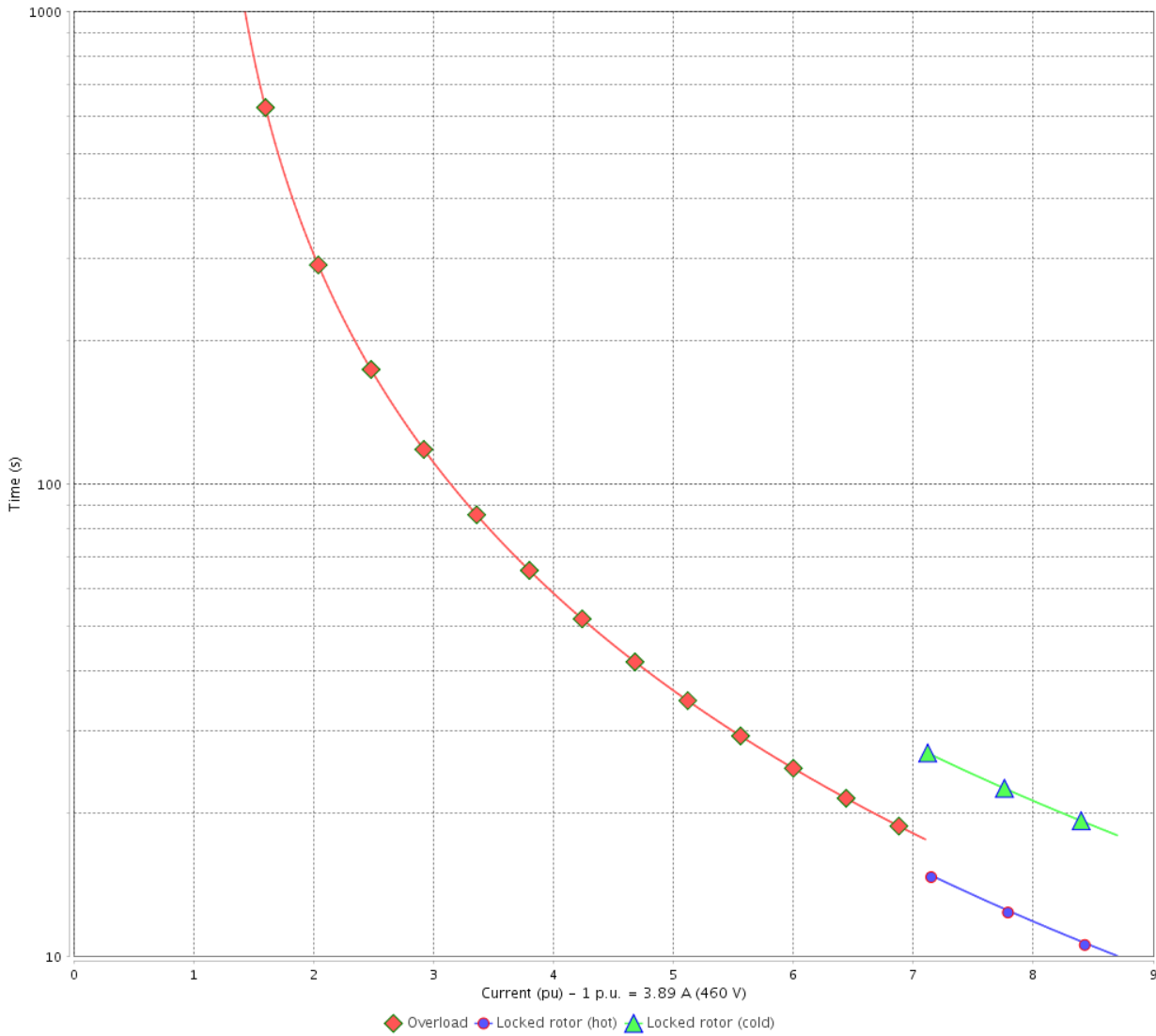


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VFD OPERATION CURVE

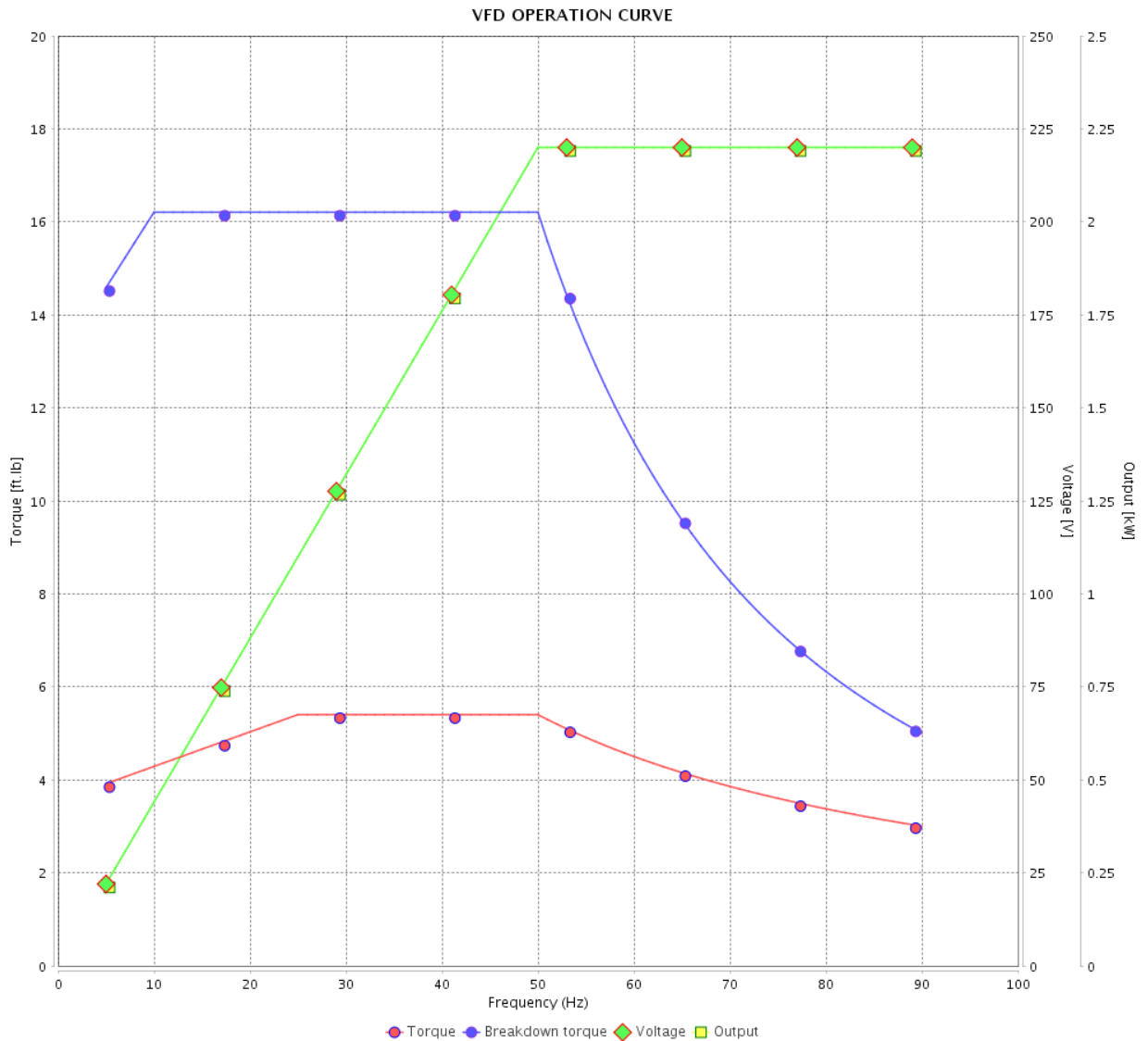
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 Service factor : 1.00
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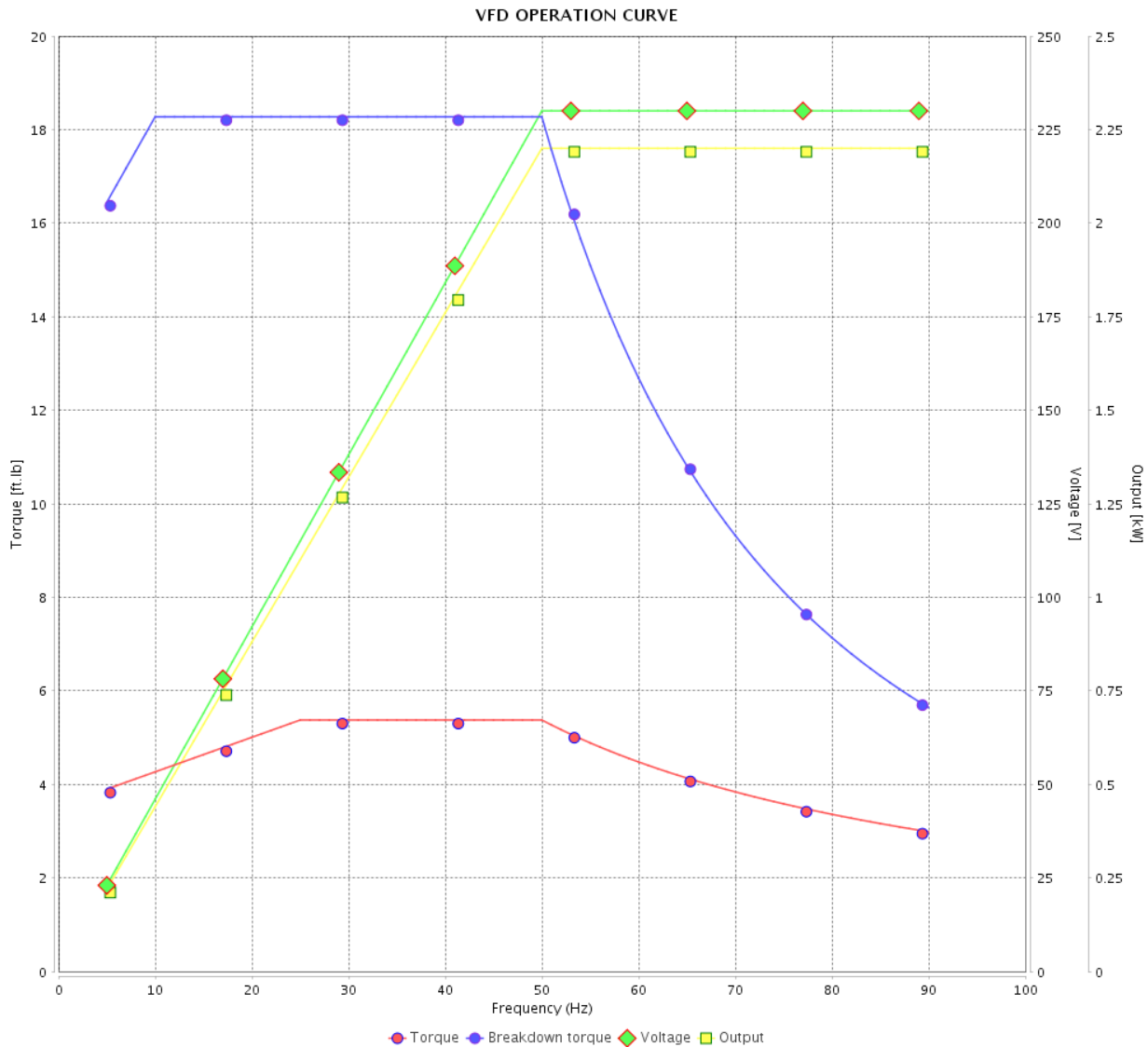
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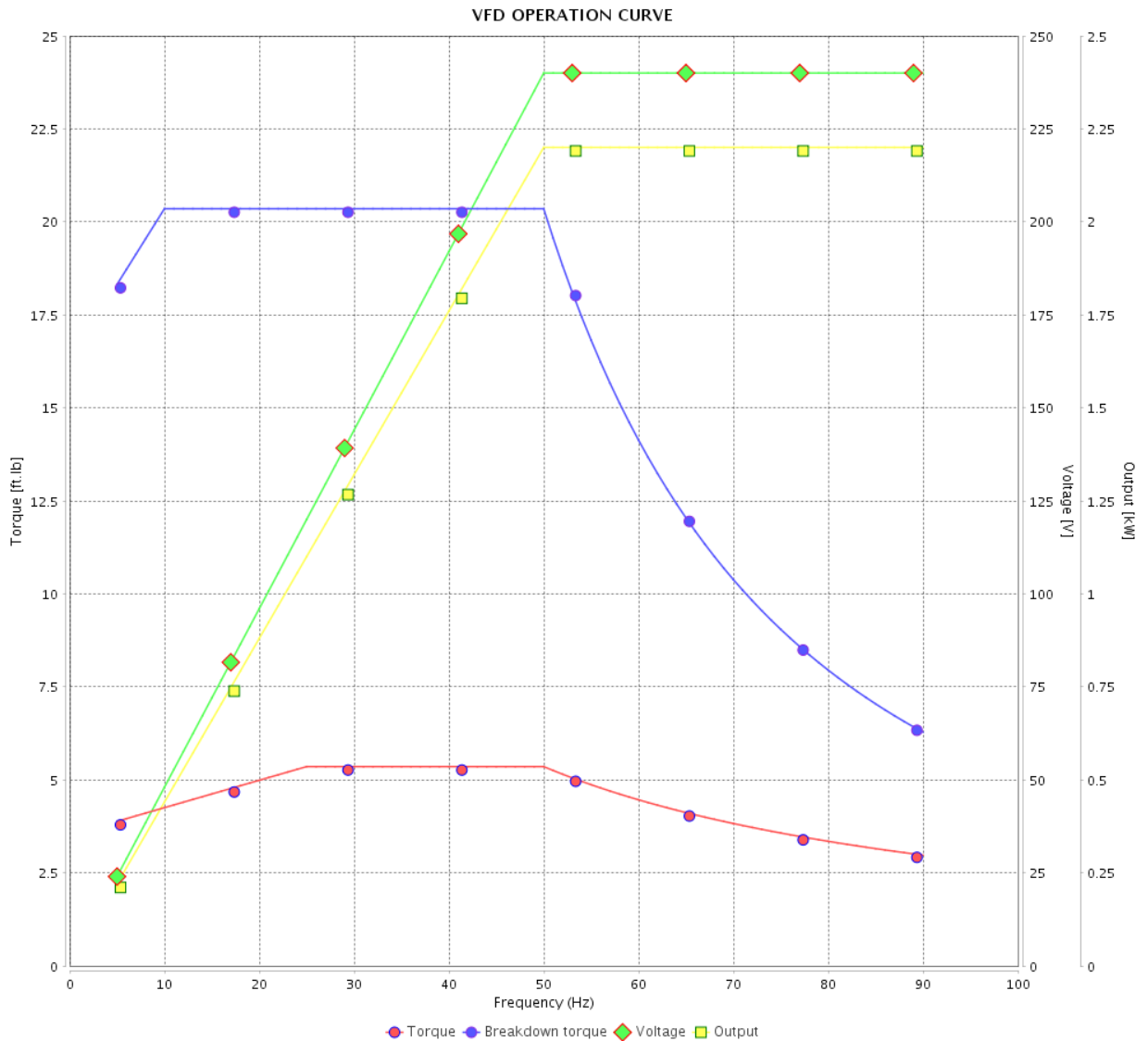
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VFD OPERATION CURVE

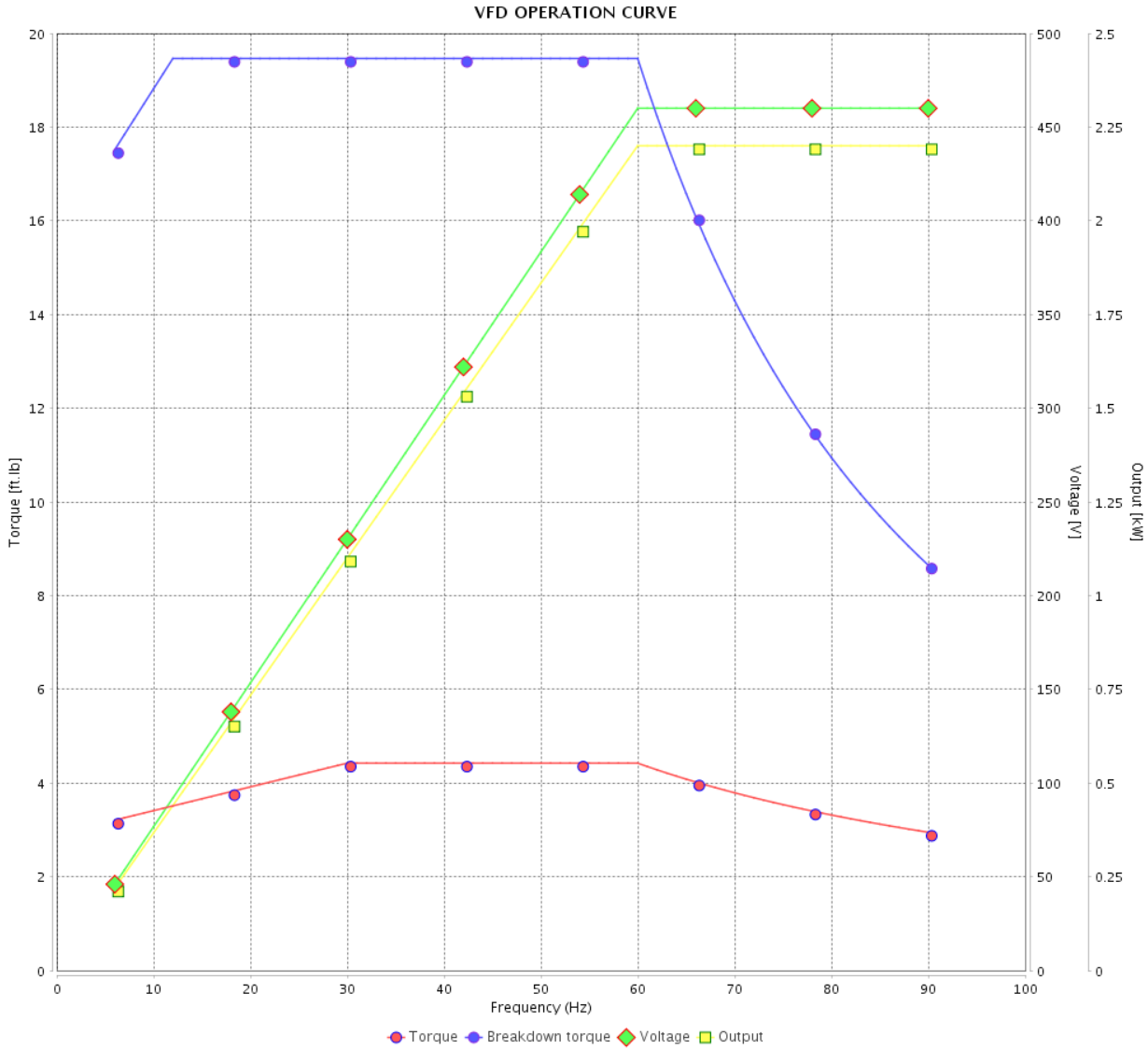
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