

DATA SHEET

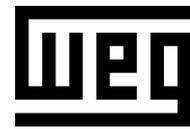


Three Phase Induction Motor - Squirrel Cage

Customer :			
Product line	: Rolled Steel NEMA Premium Efficiency Three-Phase	Product code :	12674983
		Catalog # :	00318ET3E182T-SG
Frame	: 182/4T	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: F-1
Duty cycle	: Cont.(S1)	Rotation ¹	: Both (CW and CCW)
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line
Altitude	: 1000 m.a.s.l.	Approx. weight ²	: 84.8 lb
Protection degree	: IP55	Moment of inertia (J)	: 0.4017 sq.ft.lb
Design	: B		
Output [HP]	3	3	3
Poles	4	4	4
Frequency [Hz]	60	50	50
Rated voltage [V]	230/460	190/380	220/415
Rated current [A]	7.62/3.81	9.08/4.54	8.30/4.40
L. R. Amperes [A]	67.1/33.5	60.8/30.4	62.3/33.0
LRC [A]	8.8x(Code K)	6.7x(Code H)	7.5x(Code J)
No load current [A]	4.00/2.00	3.95/1.97	3.99/2.11
Rated speed [RPM]	1765	1455	1460
Slip [%]	1.94	3.00	2.67
Rated torque [ft.lb]	8.93	10.8	10.8
Locked rotor torque [%]	220	170	200
Breakdown torque [%]	300	260	290
Service factor	1.15	1.15	1.15
Temperature rise	80 K	80 K	80 K
Locked rotor time	32s (cold) 18s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level ²	56.0 dB(A)	53.0 dB(A)	53.0 dB(A)
Efficiency (%)	25%	86.4	87.8
	50%	87.5	87.2
	75%	88.5	87.9
	100%	89.5	87.0
Power Factor	25%	0.36	0.39
	50%	0.61	0.65
	75%	0.74	0.77
	100%	0.81	0.83
Bearing type	: <u>Drive end</u> 6206 ZZ <u>Non drive end</u> 6205 ZZ	Foundation loads	
Sealing	: V'Ring V'Ring	Max. traction	: 157 lb
Lubrication interval	: - -	Max. compression	: 242 lb
Lubricant amount	: - -		
Lubricant type	: Mobil Polyrex EM		
Notes USABLE @208V 8.43A SF 1.00 SFA 8.43A			
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

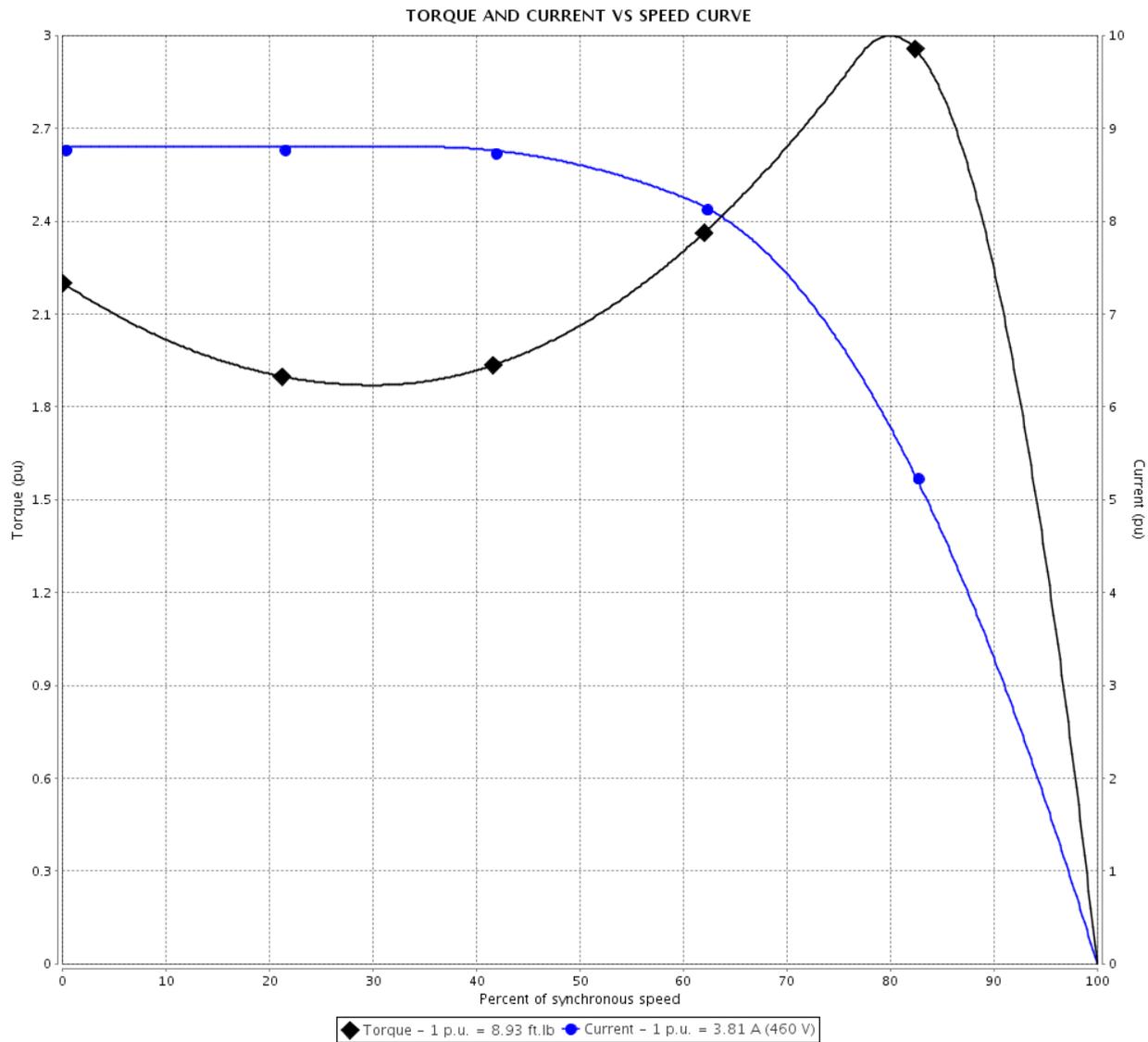


Customer :

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Product code : 12674983

Catalog # : 00318ET3E182T-SG



Performance : 230/460 V 60 Hz 4P

Rated current	: 7.62/3.81 A	Moment of inertia (J)	: 0.4017 sq.ft.lb
LRC	: 8.8	Duty cycle	: Cont.(S1)
Rated torque	: 8.93 ft.lb	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1765 rpm	Design	: B

Locked rotor time : 32s (cold) 18s (hot)

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TORQUE AND CURRENT VS SPEED CURVE



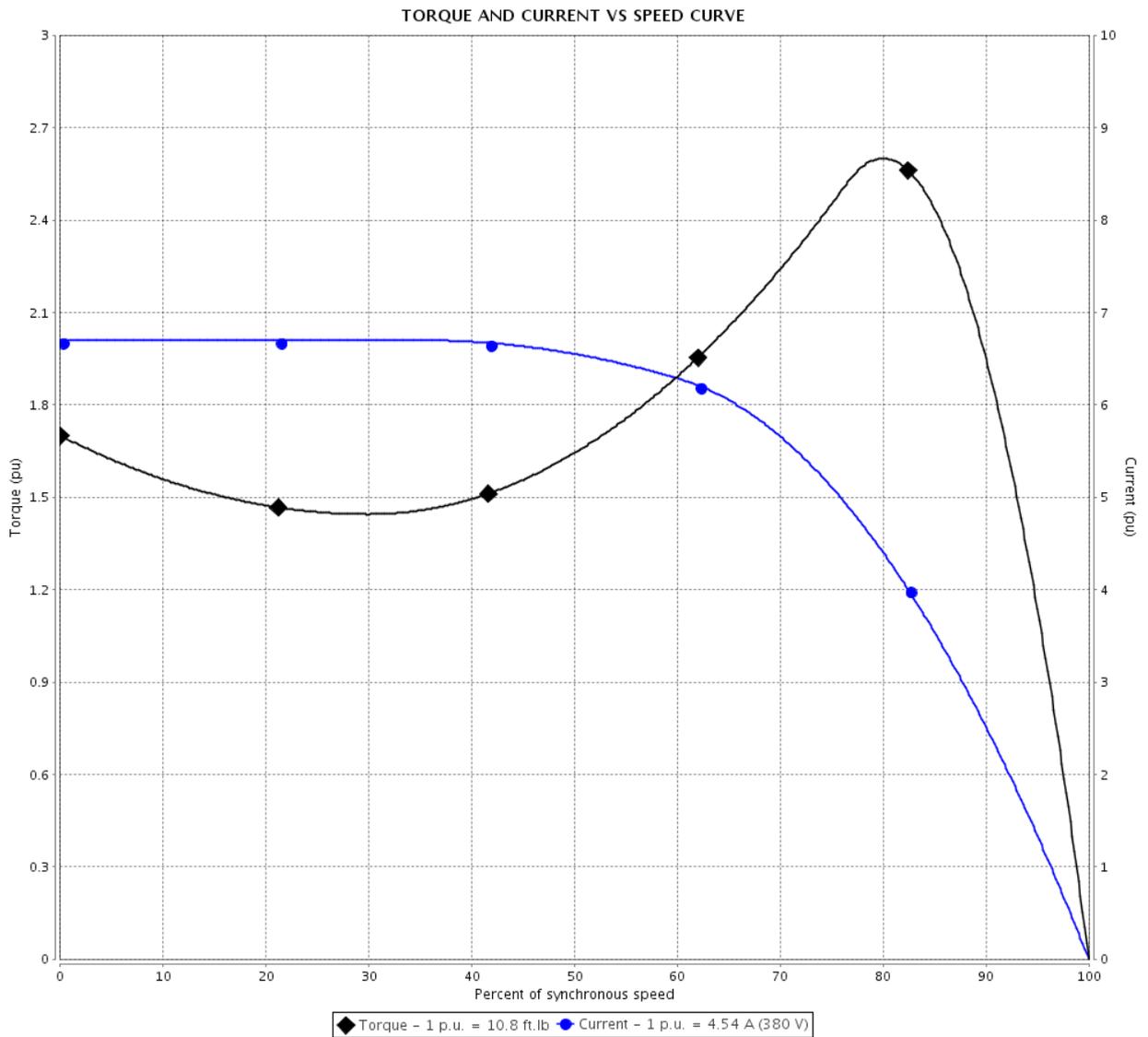
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Performance : 190/380 V 50 Hz 4P

Rated current : 9.08/4.54 A
 LRC : 6.7
 Rated torque : 10.8 ft.lb
 Locked rotor torque : 170 %
 Breakdown torque : 260 %
 Rated speed : 1455 rpm

Moment of inertia (J) : 0.4017 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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

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TORQUE AND CURRENT VS SPEED CURVE

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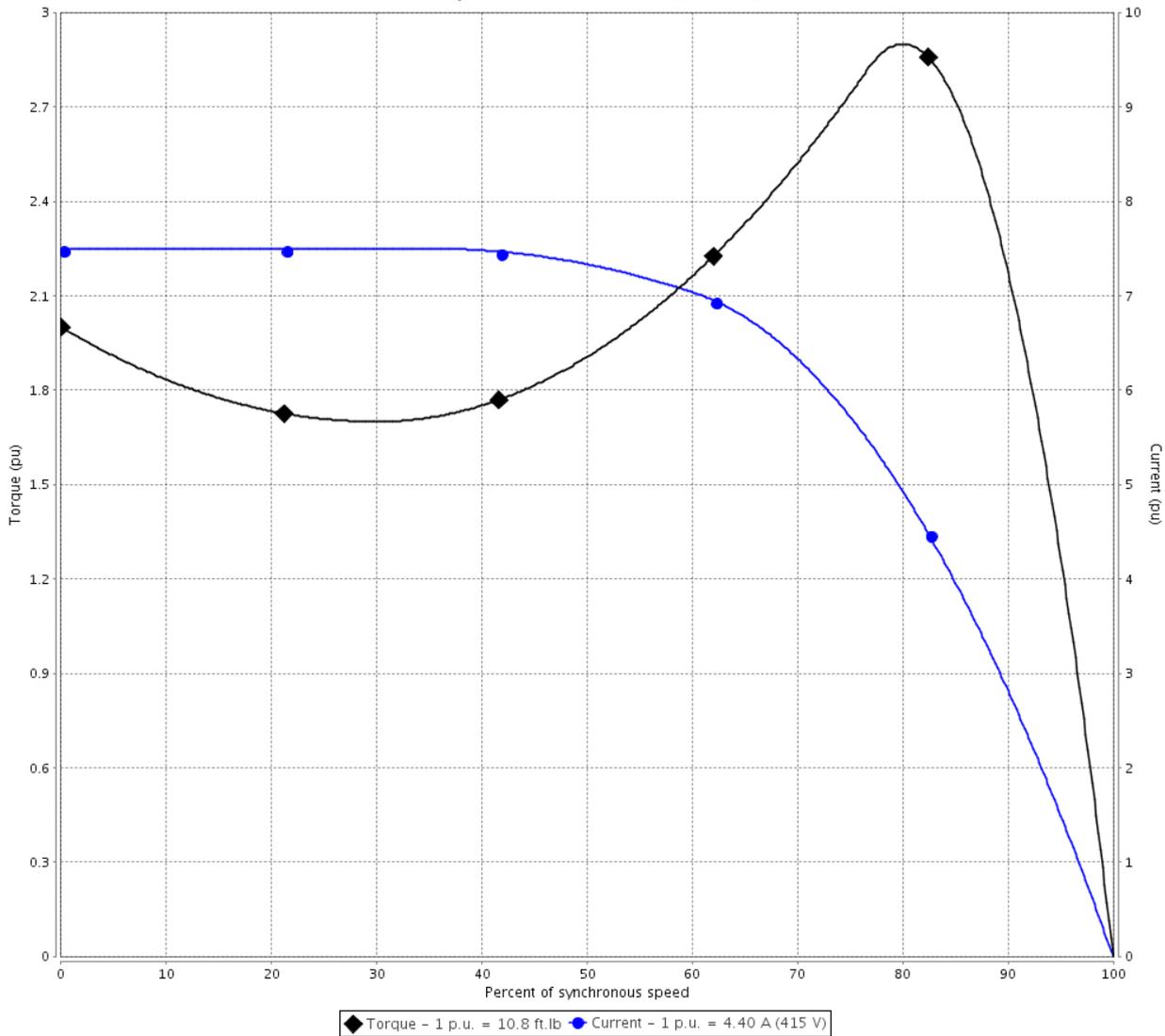
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TORQUE AND CURRENT VS SPEED CURVE



Performance : 220/415 V 50 Hz 4P

Rated current : 8.30/4.40 A
 LRC : 7.5
 Rated torque : 10.8 ft.lb
 Locked rotor torque : 200 %
 Breakdown torque : 290 %
 Rated speed : 1460 rpm

Moment of inertia (J) : 0.4017 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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

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LOAD PERFORMANCE CURVE

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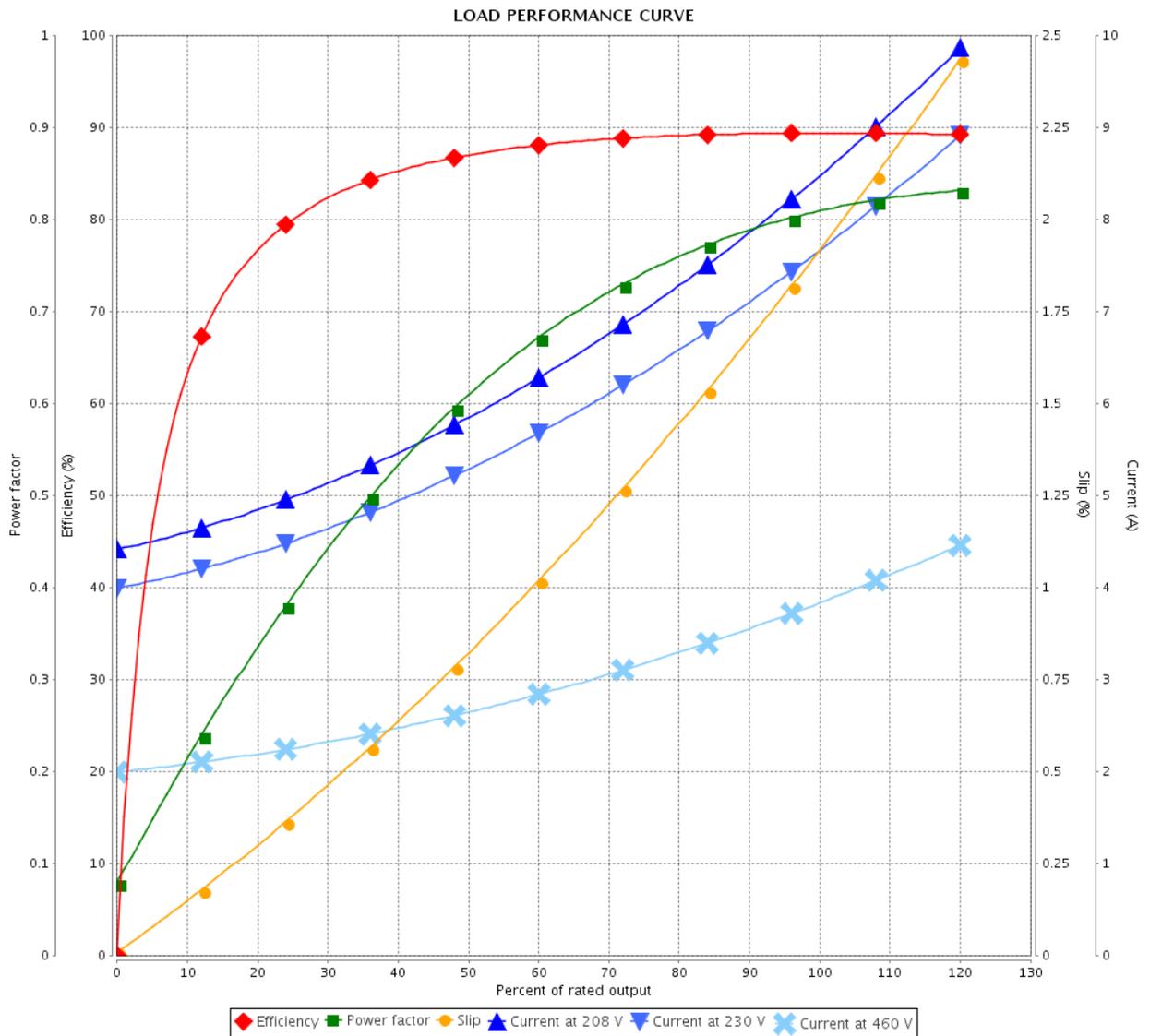


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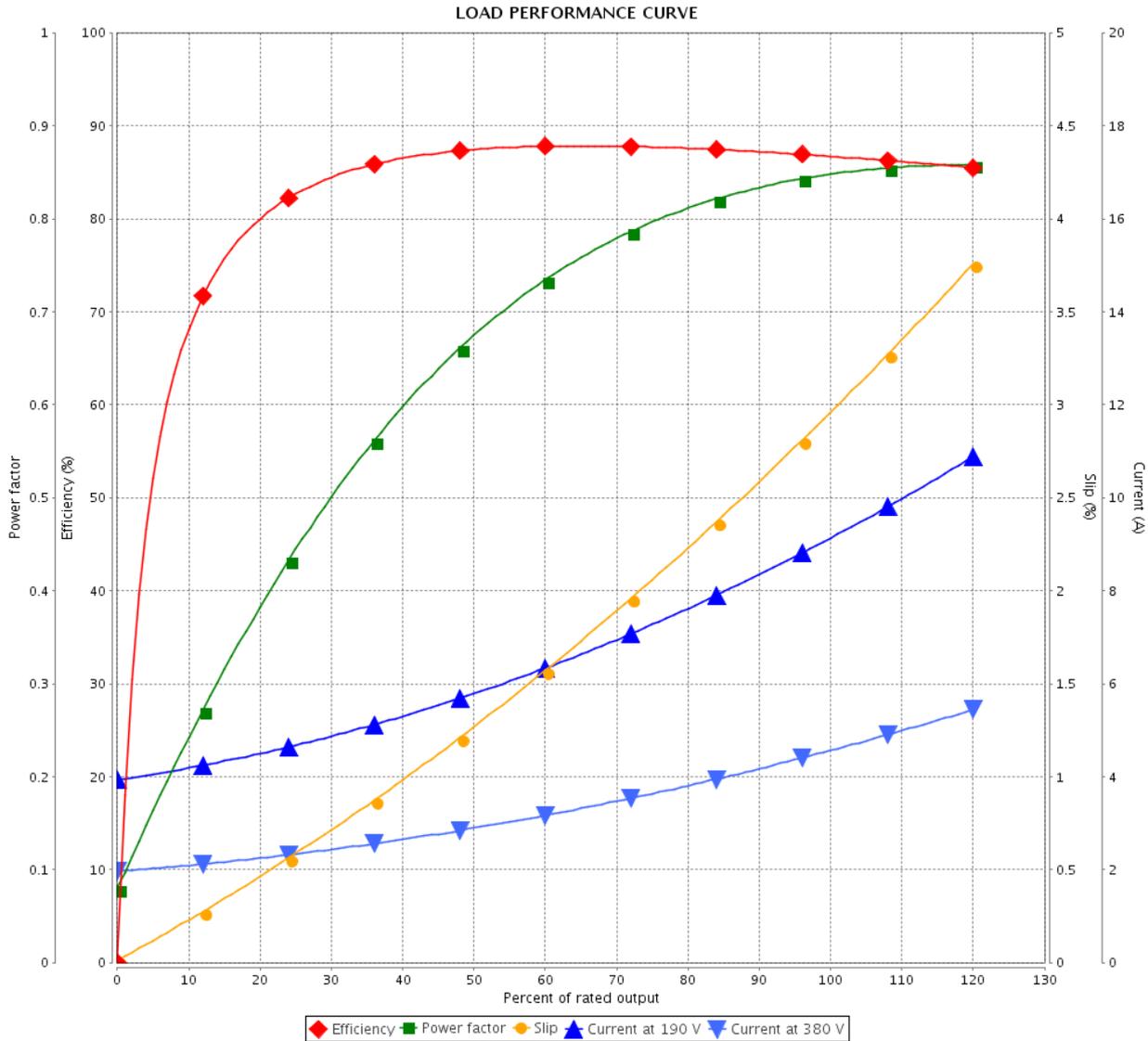


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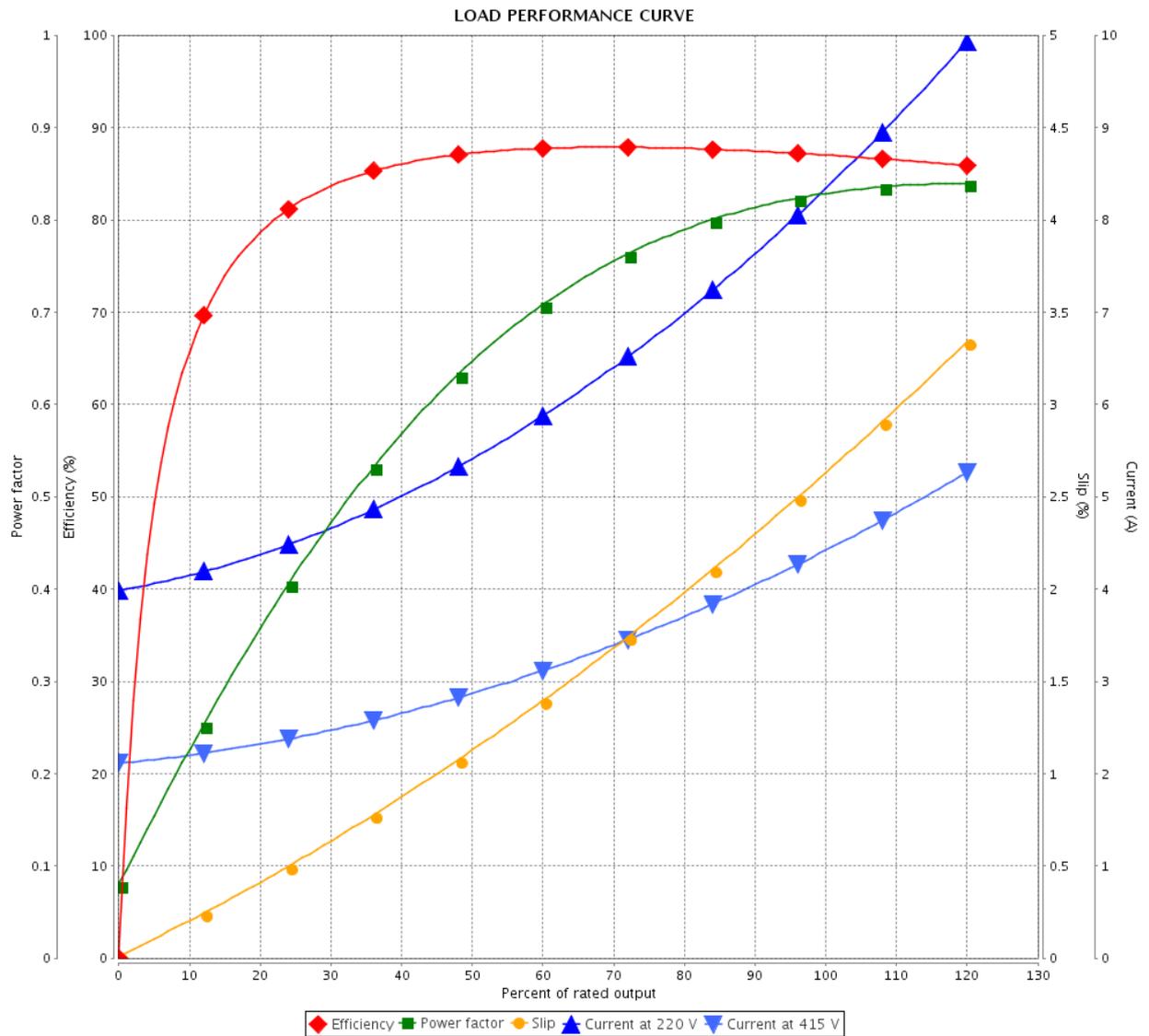


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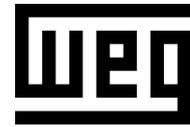
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THERMAL LIMIT CURVE



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Temperature rise : 80 K
Design : B

Heating constant

Cooling constant

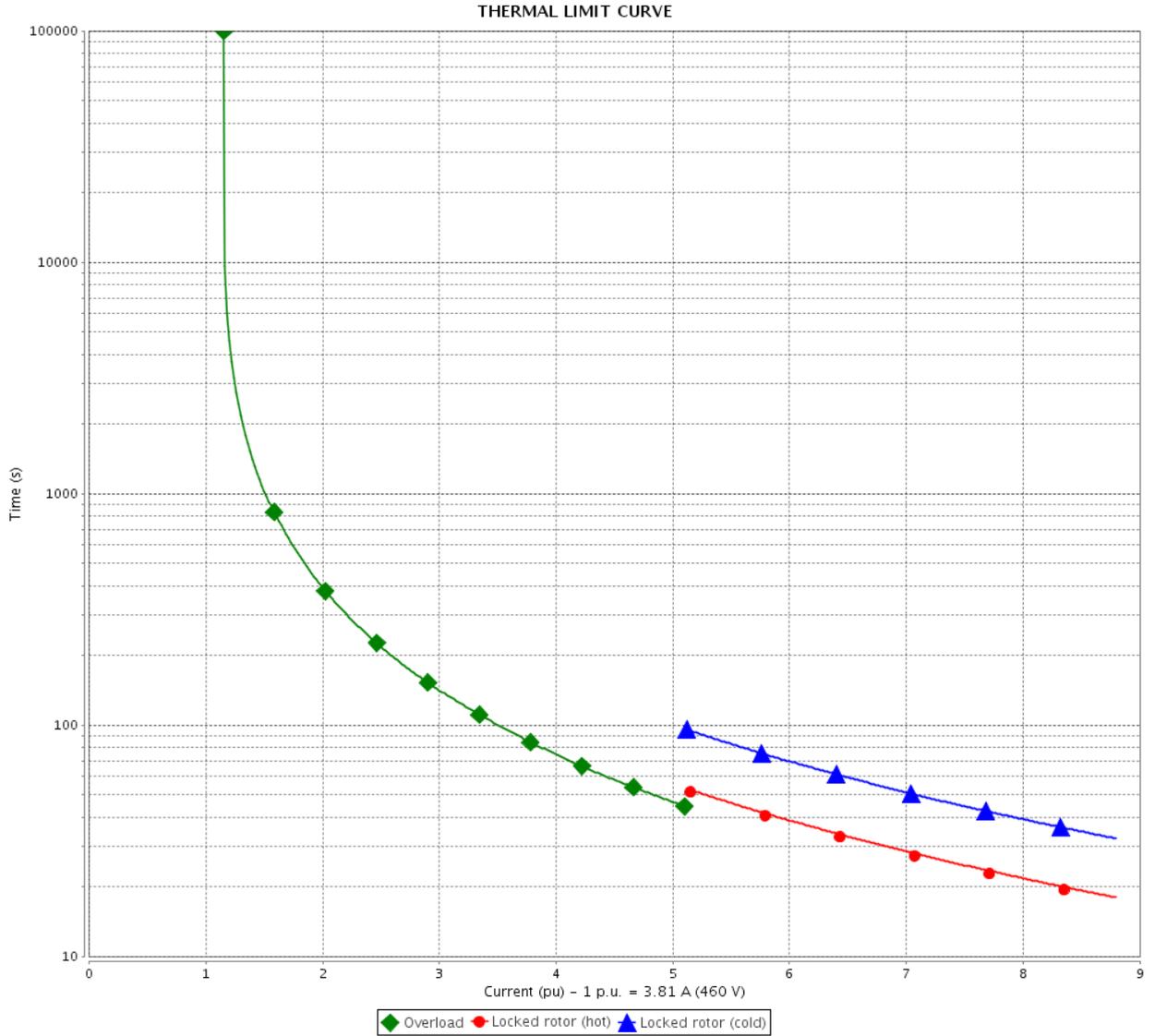
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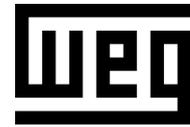


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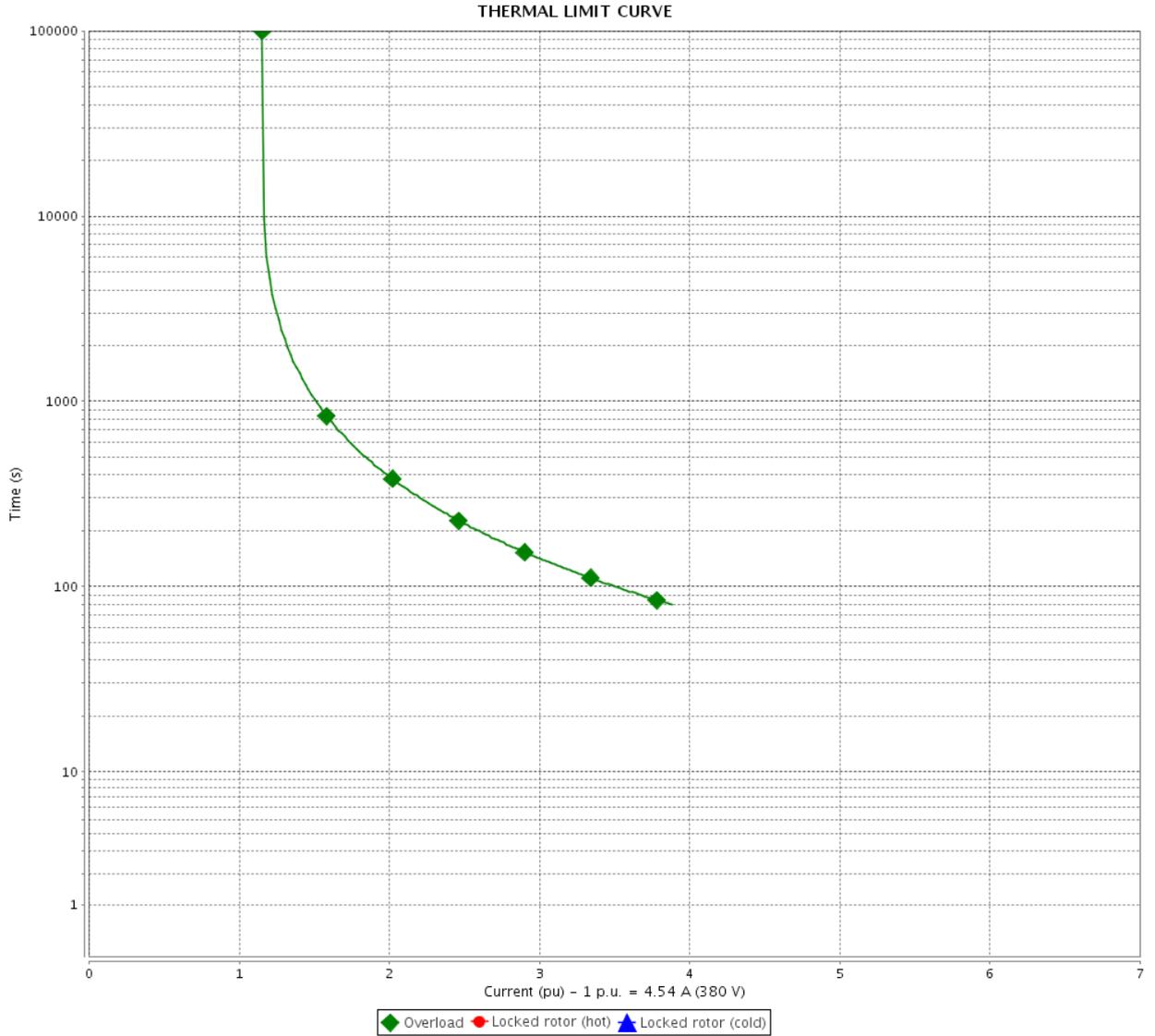
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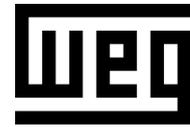


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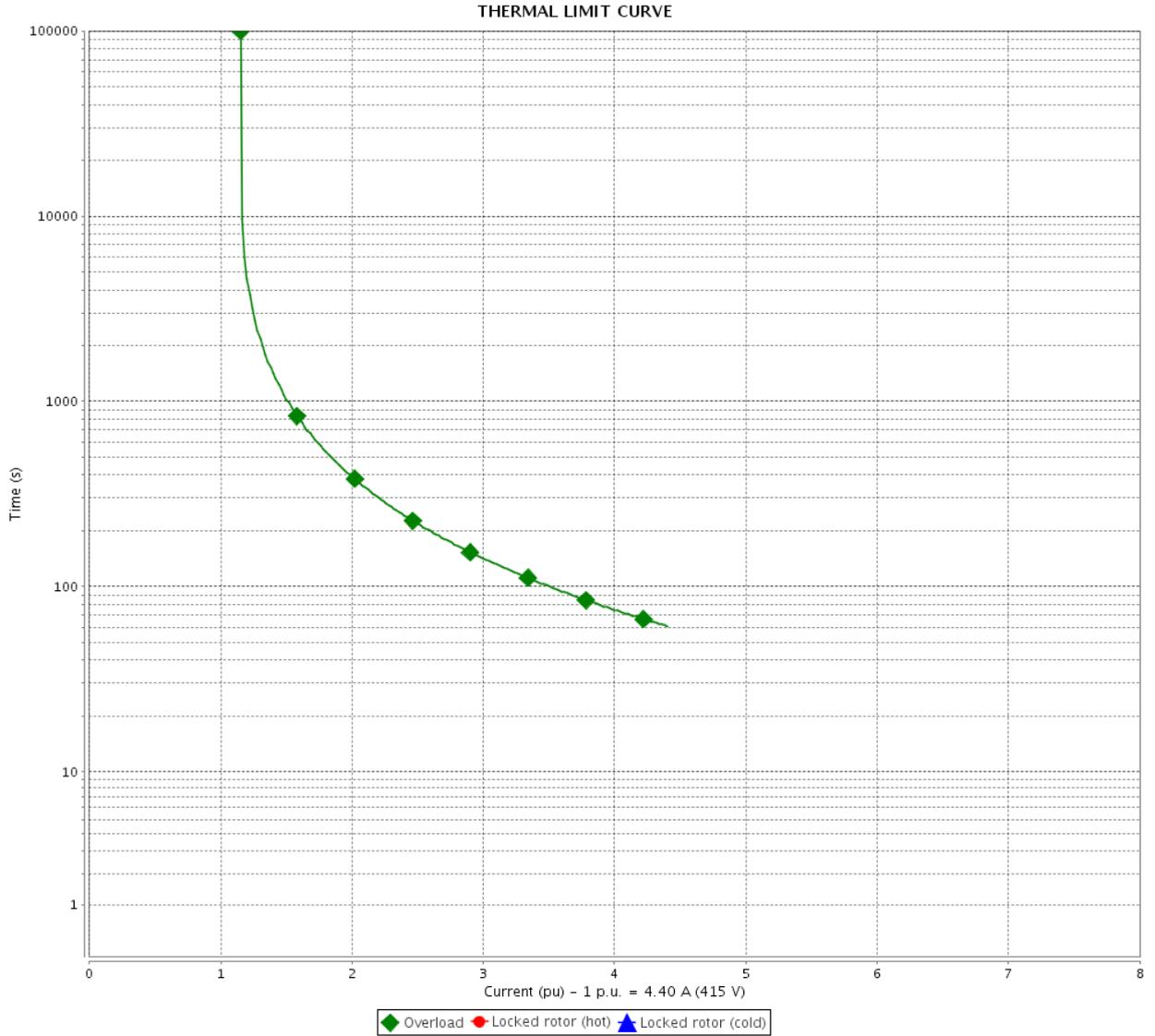
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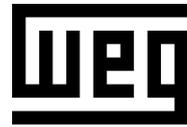
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VFD OPERATION CURVE

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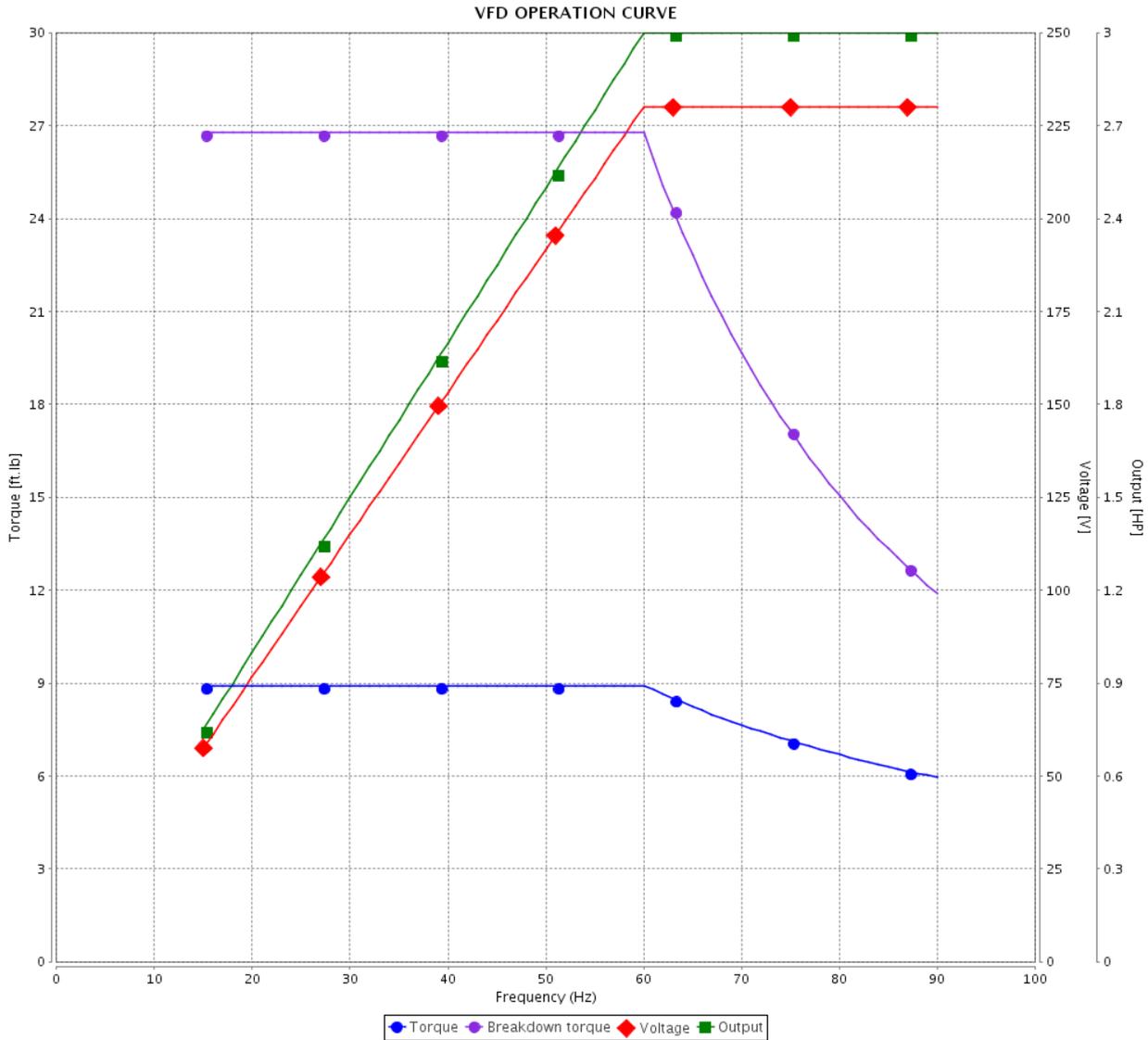


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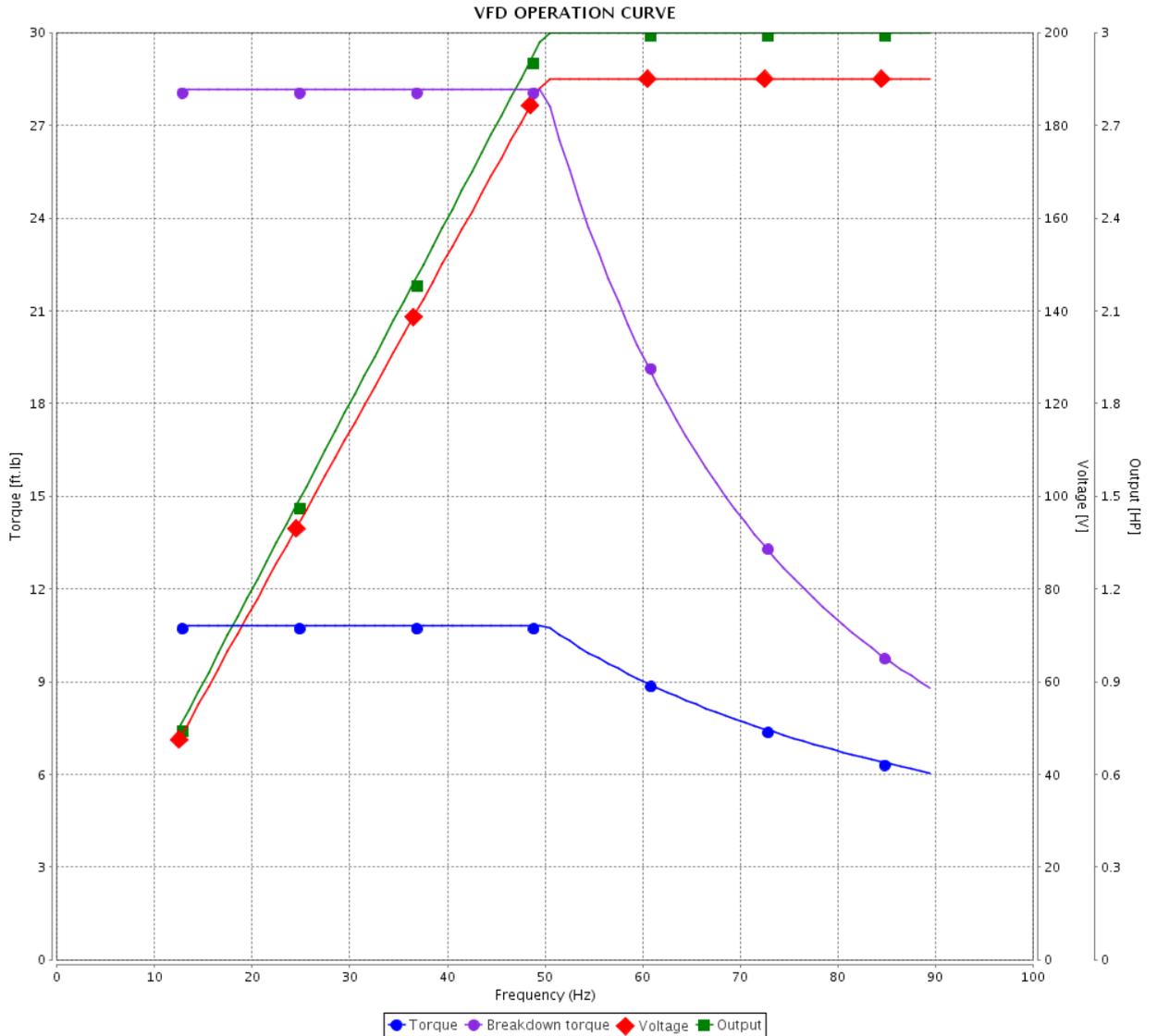


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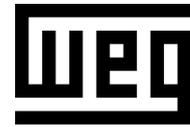
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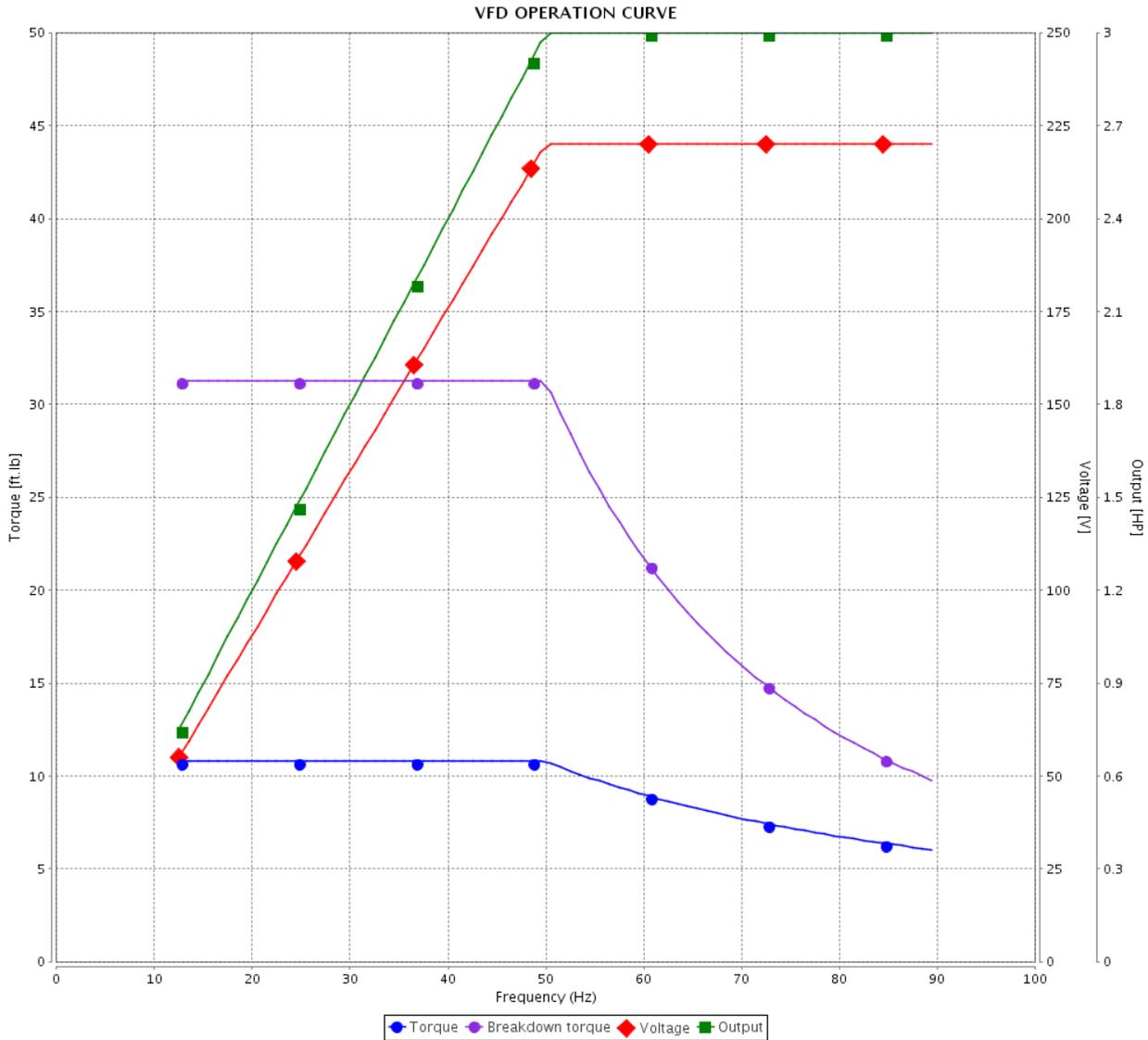


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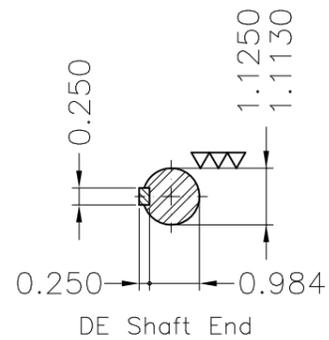
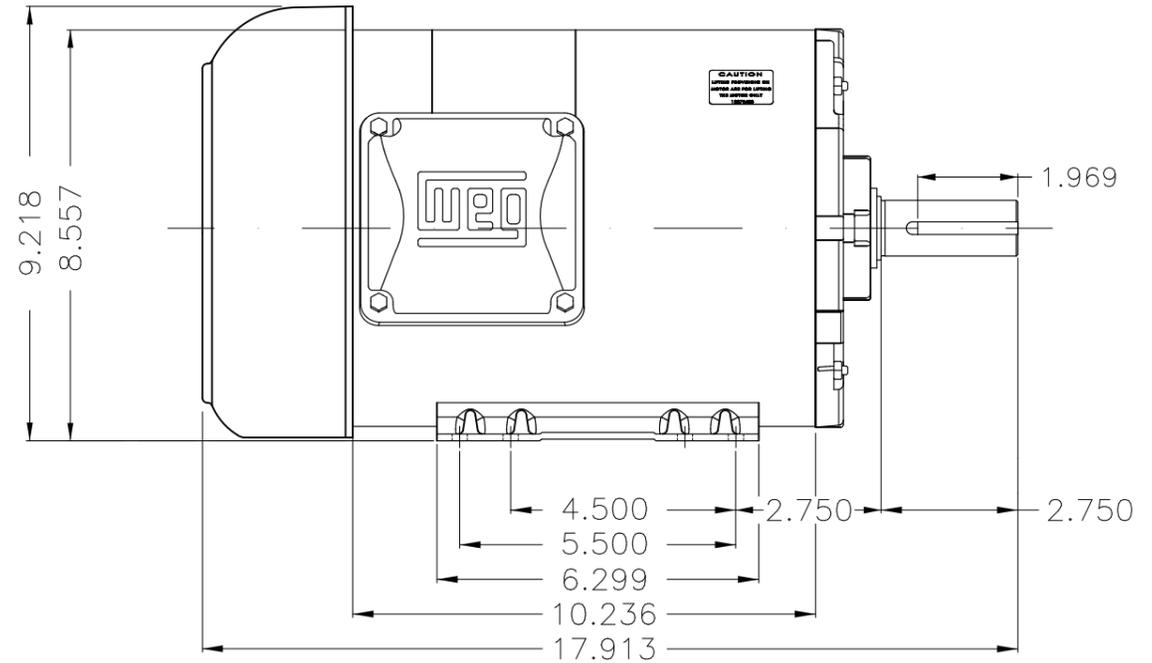
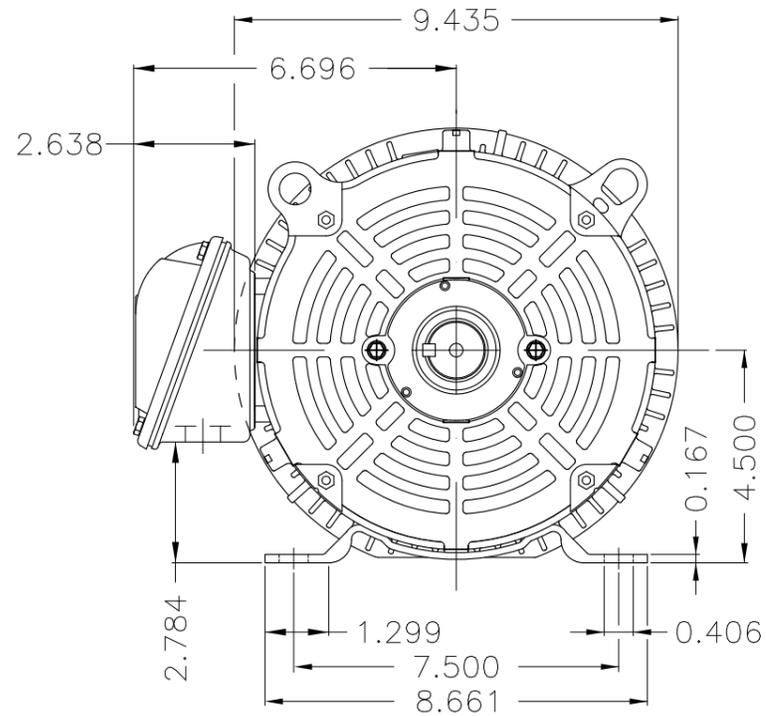
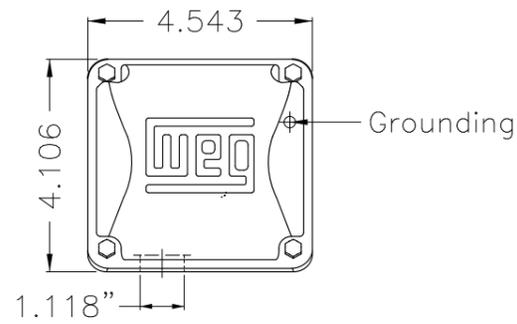
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EIXO
 PADRÃO
 OPCIONAL
 ESPECIAL

Dimensões em polegada
 Dimensions in inches

THIS IS AN UPDATED REVISION, THE PREVIOUS ONE MUST BE DISREGARDED.



Internal AEGIS ground ring on the DE
 Bearing cap
 Color Munsell N 1 matte black
 Painting plan 207N
 Mounting F-1/B3R(D)

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	USERADMIN	THREE P. MOTOR CLOS ROLLED STEEL NEMA PREM					
CHECKED		FRAME 182/4T IP55 TEFC					
RELEASED		WEG code: 12674983					
REL DT	22.03.2021	WMO Jaragua do Sul	Product Engineering	SHEET	1 / 1		

3 HP 04 Poles 60Hz

A



ZME A3