

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :					
Product line	: W22 IEEE 841 NEMA Premium Efficiency Three-Phase	Product code :	16687098		
		Catalog # :	00718ST3QAP213T-W22		
Frame	: 213/5T	Cooling method	: IC411 - TEFC		
Insulation class	: F	Mounting	: W-8		
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	: 181 lb		
Protection degree	: IP56	Moment of inertia (J)	: 1.34 sq.ft.lb		
Design	: B				
Output [HP]	7.5	7.5	7.5	7.5	
Poles	4	4	4	4	
Frequency [Hz]	60	50	50	50	
Rated voltage [V]	460	380	400	415	
Rated current [A]	9.18	11.0	10.6	10.3	
L. R. Amperes [A]	65.2	61.6	65.7	69.0	
LRC [A]	7.1x(Code H)	5.6x(Code F)	6.2x(Code G)	6.7x(Code H)	
No load current [A]	4.20	4.10	4.40	4.70	
Rated speed [RPM]	1765	1455	1460	1465	
Slip [%]	1.94	3.00	2.67	2.33	
Rated torque [ft.lb]	22.3	27.1	27.0	26.9	
Locked rotor torque [%]	220	170	190	210	
Breakdown torque [%]	310	240	270	290	
Service factor	1.15	1.15	1.15	1.15	
Temperature rise	80 K	80 K	80 K	80 K	
Locked rotor time	36s (cold) 20s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	
Noise level ²	58.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	
Efficiency (%)	25%	88.6	89.2	89.2	89.3
	50%	89.5	89.5	89.5	89.5
	75%	91.0	89.5	90.2	90.2
	100%	91.7	89.6	90.2	90.2
Power Factor	25%	0.40	0.47	0.43	0.40
	50%	0.66	0.72	0.69	0.66
	75%	0.76	0.81	0.78	0.76
	100%	0.82	0.85	0.83	0.82
Losses at normative operating points (speed;torque), in percentage of rated output power					
Losses (%)	P1 (0,9;1,0)	8.8	8.8	8.8	8.8
	P2 (0,5;1,0)	7.0	7.0	7.0	7.0
	P3 (0,25;1,0)	6.5	6.5	6.5	6.5
	P4 (0,9;0,5)	4.9	4.9	4.9	4.9
	P5 (0,5;0,5)	3.3	3.3	3.3	3.3
	P6 (0,5;0,25)	2.4	2.4	2.4	2.4
	P7 (0,25;0,25)	1.6	1.6	1.6	1.6
Bearing type	: Drive end : NU-308 C3 Non drive end : 6207 C3	Foundation loads			
Sealing	: Inpro/Seal Inpro/Seal	Max. traction : 349 lb			
Lubrication interval	: 16000 h 20000 h	Max. compression : 530 lb			
Lubricant amount	: 11 g 7 g				
Lubricant type	: Mobil Polyrex EM				
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).			These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.		
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Notes

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TORQUE AND CURRENT VS SPEED CURVE



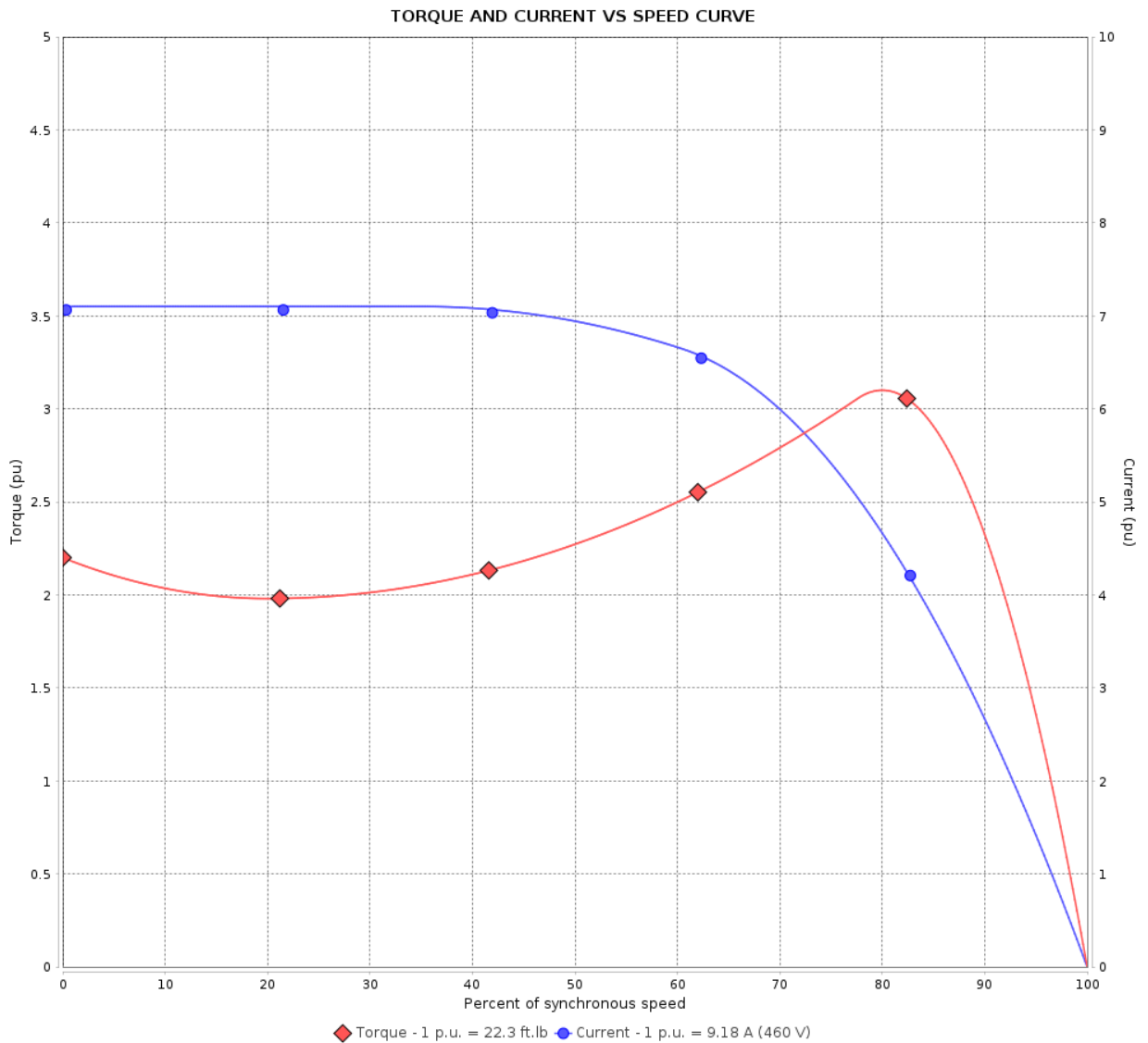
Three Phase Induction Motor - Squirrel Cage

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Product code : 16687098

Catalog # : 00718ST3QAP213T-W22



Performance : 460 V 60 Hz 4P

Rated current	: 9.18 A	Moment of inertia (J)	: 1.34 sq.ft.lb
LRC	: 7.1	Duty cycle	: Cont.(S1)
Rated torque	: 22.3 ft.lb	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.15
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 1765 rpm	Design	: B

Locked rotor time : 36s (cold) 20s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

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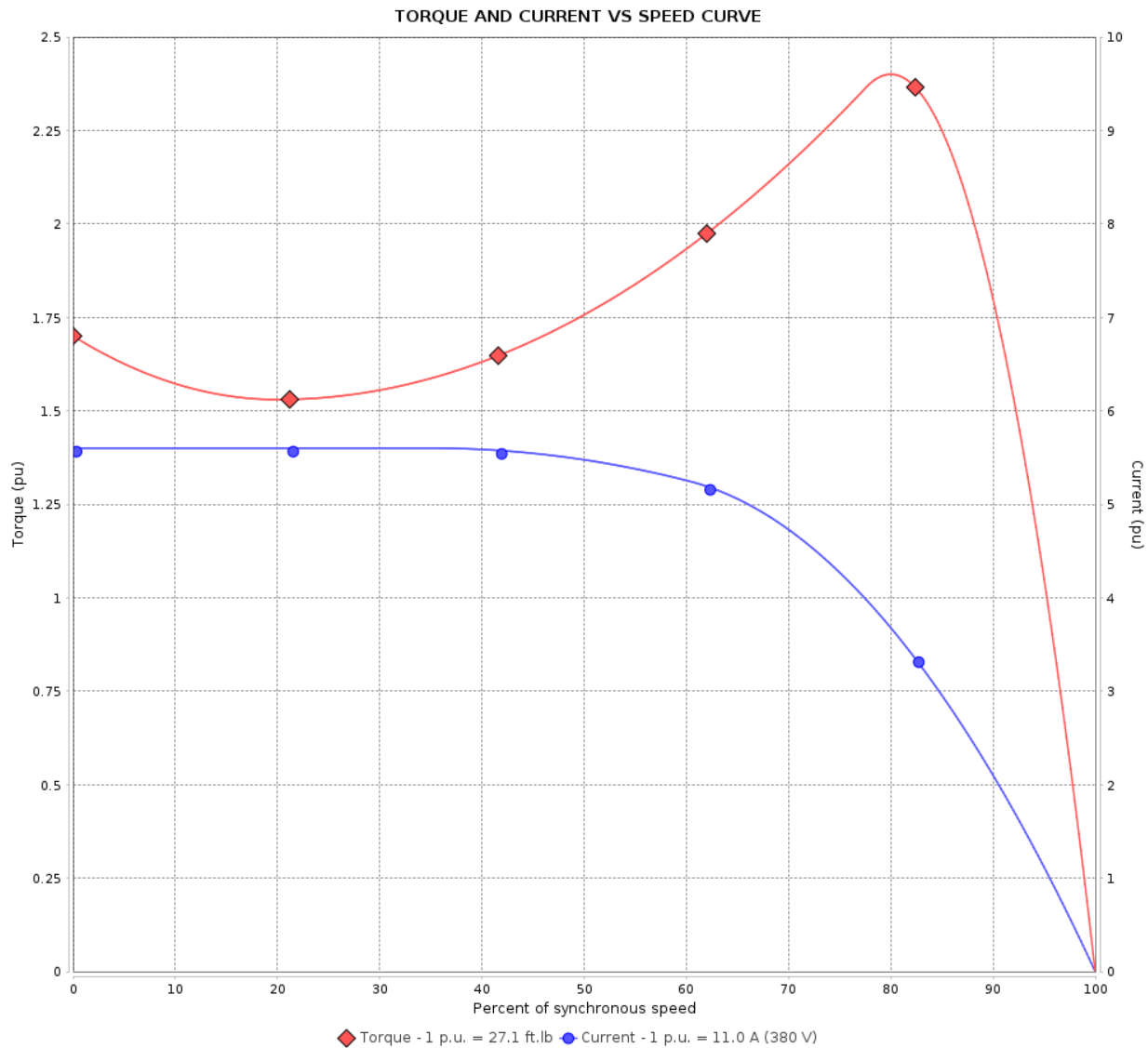


Customer :

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Product code : 16687098

Catalog # : 00718ST3QAP213T-W22



Performance : 380 V 50 Hz 4P IE3

Rated current	: 11.0 A	Moment of inertia (J)	: 1.34 sq.ft.lb
LRC	: 5.6	Duty cycle	: Cont.(S1)
Rated torque	: 27.1 ft.lb	Insulation class	: F
Locked rotor torque	: 170 %	Service factor	: 1.15
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 1455 rpm	Design	: B

Locked rotor time : 27s (cold) 15s (hot)

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TORQUE AND CURRENT VS SPEED CURVE



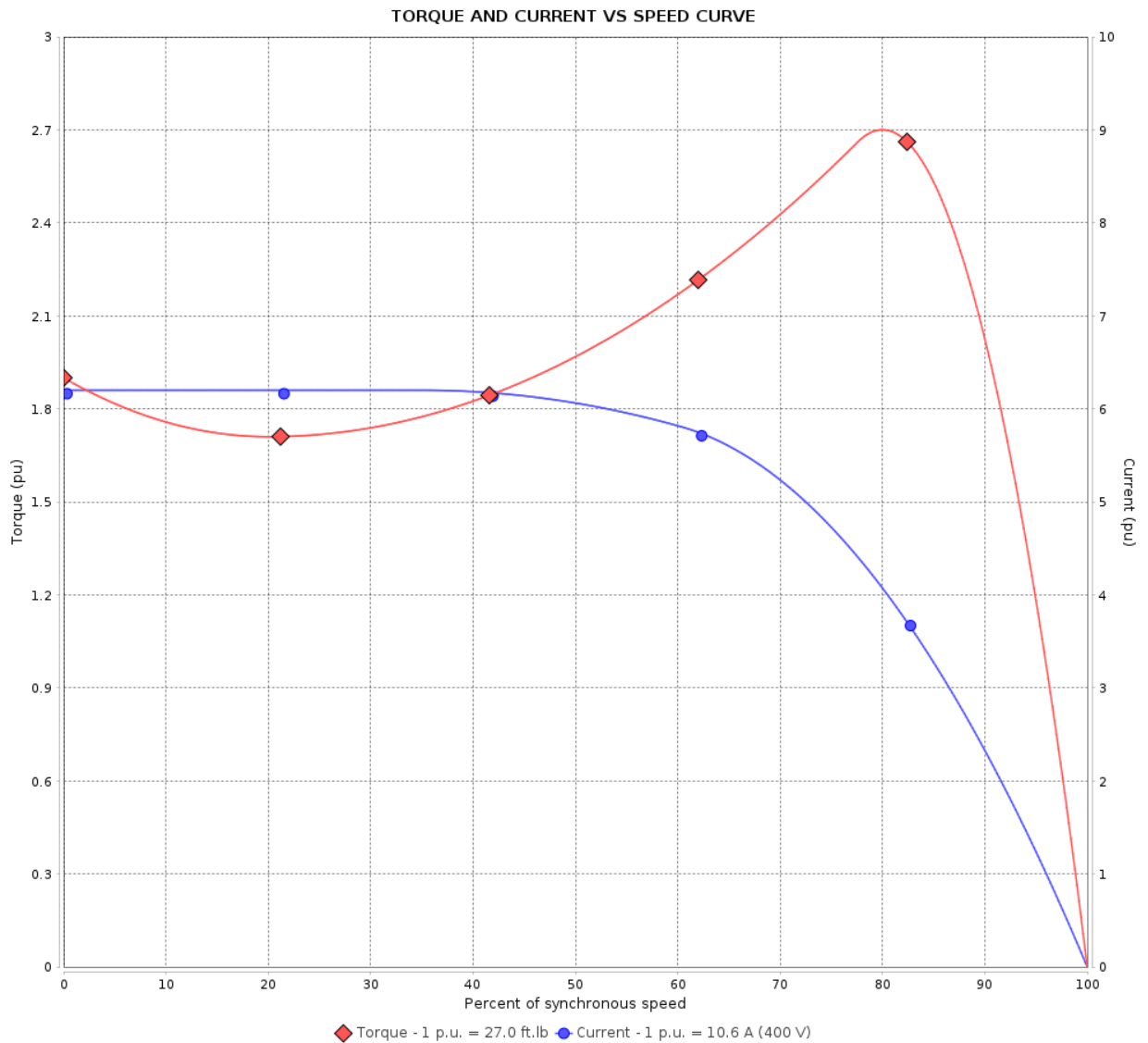
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Performance : 400 V 50 Hz 4P IE3

Rated current	: 10.6 A	Moment of inertia (J)	: 1.34 sq.ft.lb
LRC	: 6.2	Duty cycle	: Cont.(S1)
Rated torque	: 27.0 ft.lb	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.15
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 1460 rpm	Design	: B

Locked rotor time : 27s (cold) 15s (hot)

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TORQUE AND CURRENT VS SPEED CURVE



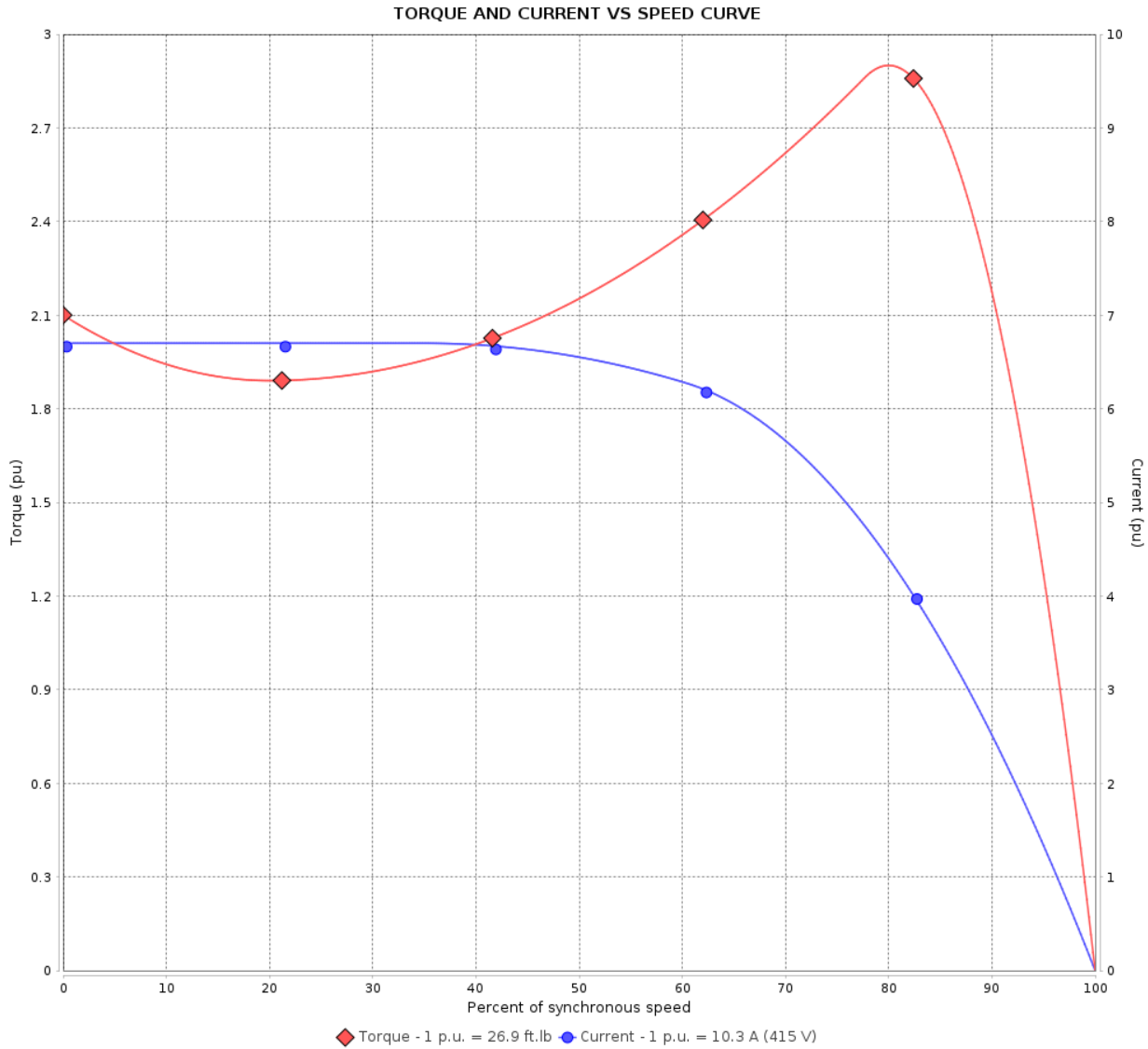
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Performance : 415 V 50 Hz 4P IE3

Rated current	: 10.3 A	Moment of inertia (J)	: 1.34 sq.ft.lb
LRC	: 6.7	Duty cycle	: Cont.(S1)
Rated torque	: 26.9 ft.lb	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.15
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 1465 rpm	Design	: B

Locked rotor time : 27s (cold) 15s (hot)

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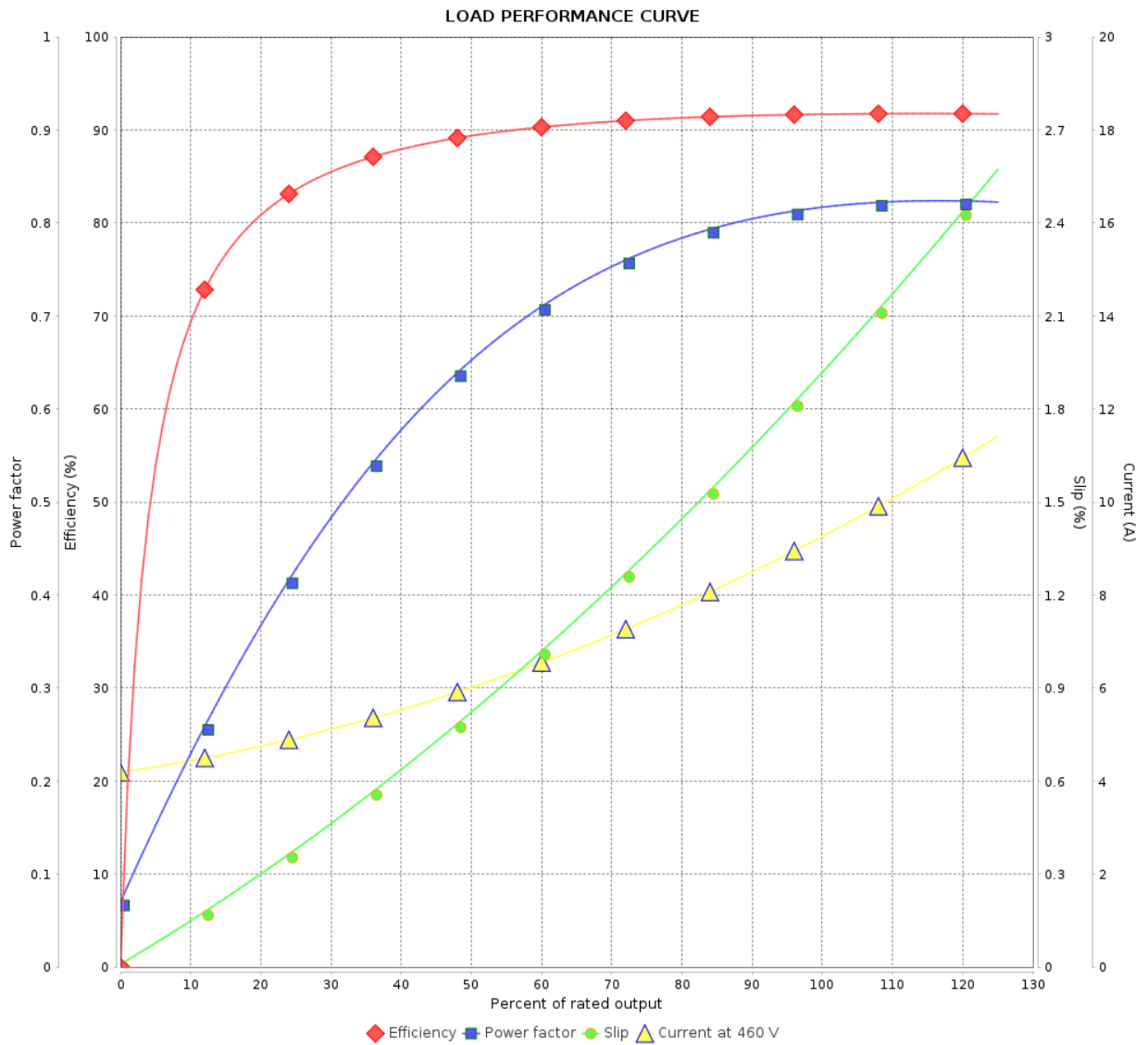


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Performance : 460 V 60 Hz 4P

Rated current : 9.18 A
 LRC : 7.1
 Rated torque : 22.3 ft.lb
 Locked rotor torque : 220 %
 Breakdown torque : 310 %
 Rated speed : 1765 rpm

Moment of inertia (J) : 1.34 sq.ft.lb
 Duty cycle : Cont.(S1)
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 Service factor : 1.15
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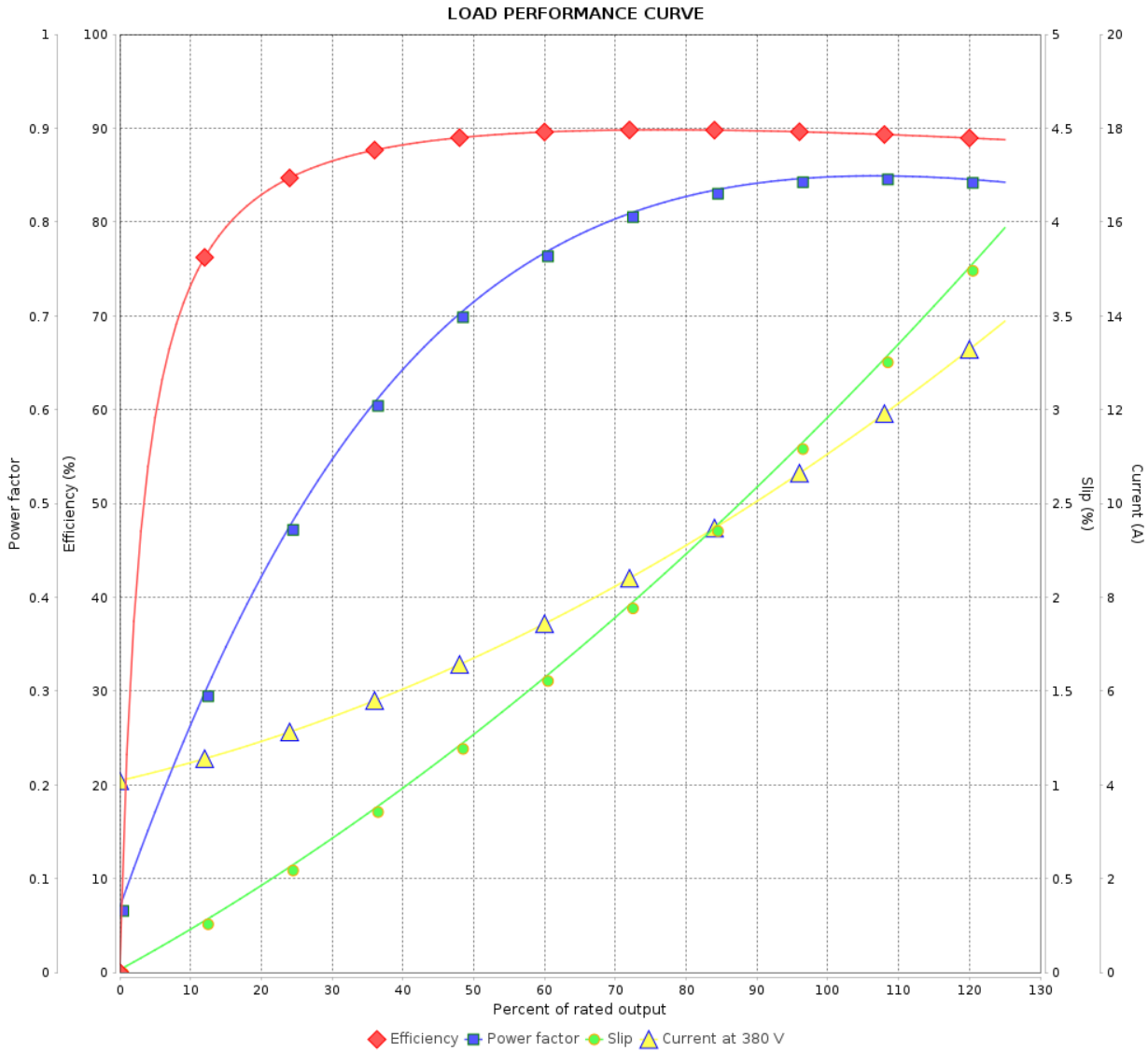


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Performance : 380 V 50 Hz 4P IE3

Rated current : 11.0 A
 LRC : 5.6
 Rated torque : 27.1 ft.lb
 Locked rotor torque : 170 %
 Breakdown torque : 240 %
 Rated speed : 1455 rpm

Moment of inertia (J) : 1.34 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
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Three Phase Induction Motor - Squirrel Cage

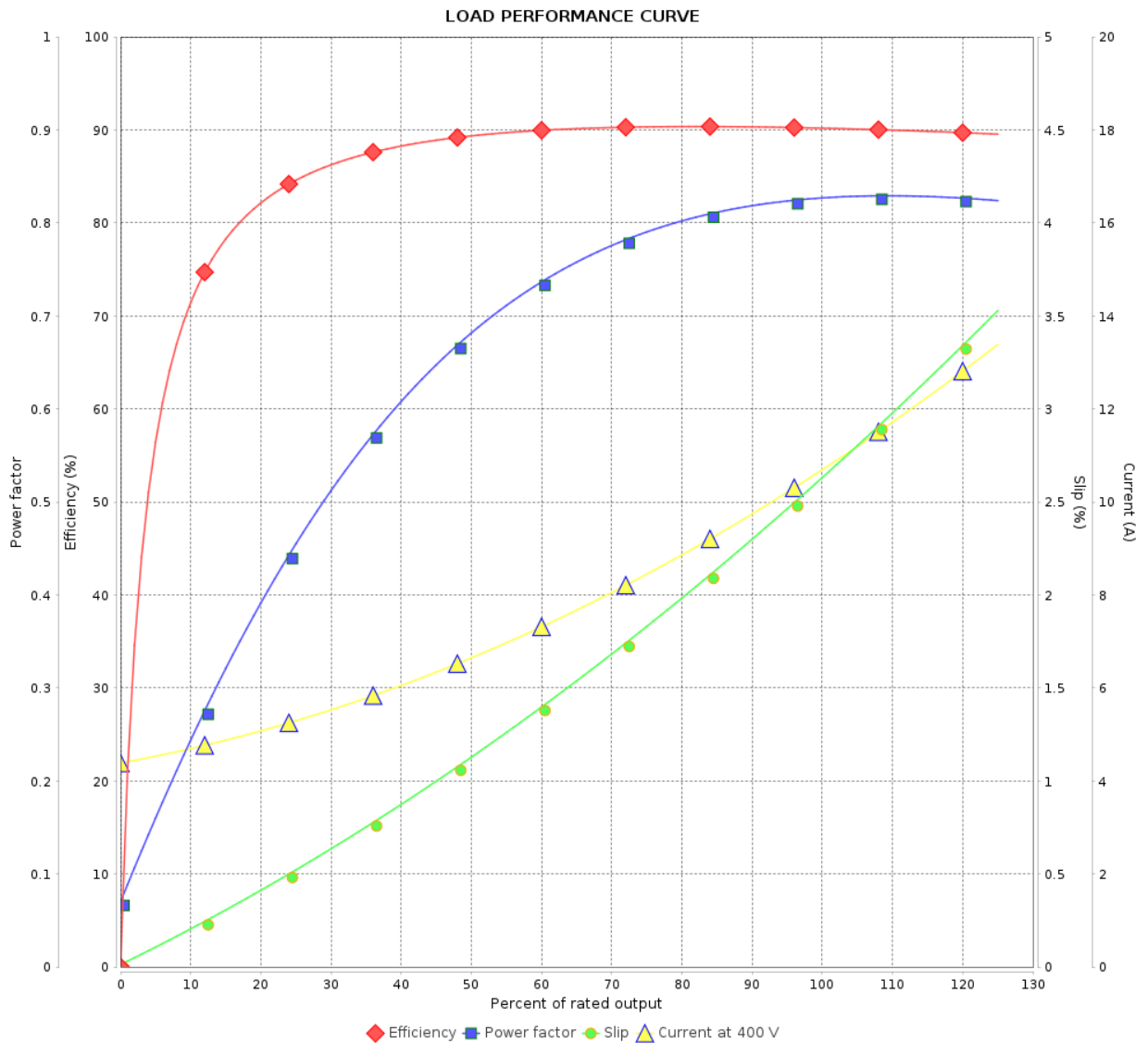


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Performance : 400 V 50 Hz 4P IE3

Rated current : 10.6 A
 LRC : 6.2
 Rated torque : 27.0 ft.lb
 Locked rotor torque : 190 %
 Breakdown torque : 270 %
 Rated speed : 1460 rpm

Moment of inertia (J) : 1.34 sq.ft.lb
 Duty cycle : Cont.(S1)
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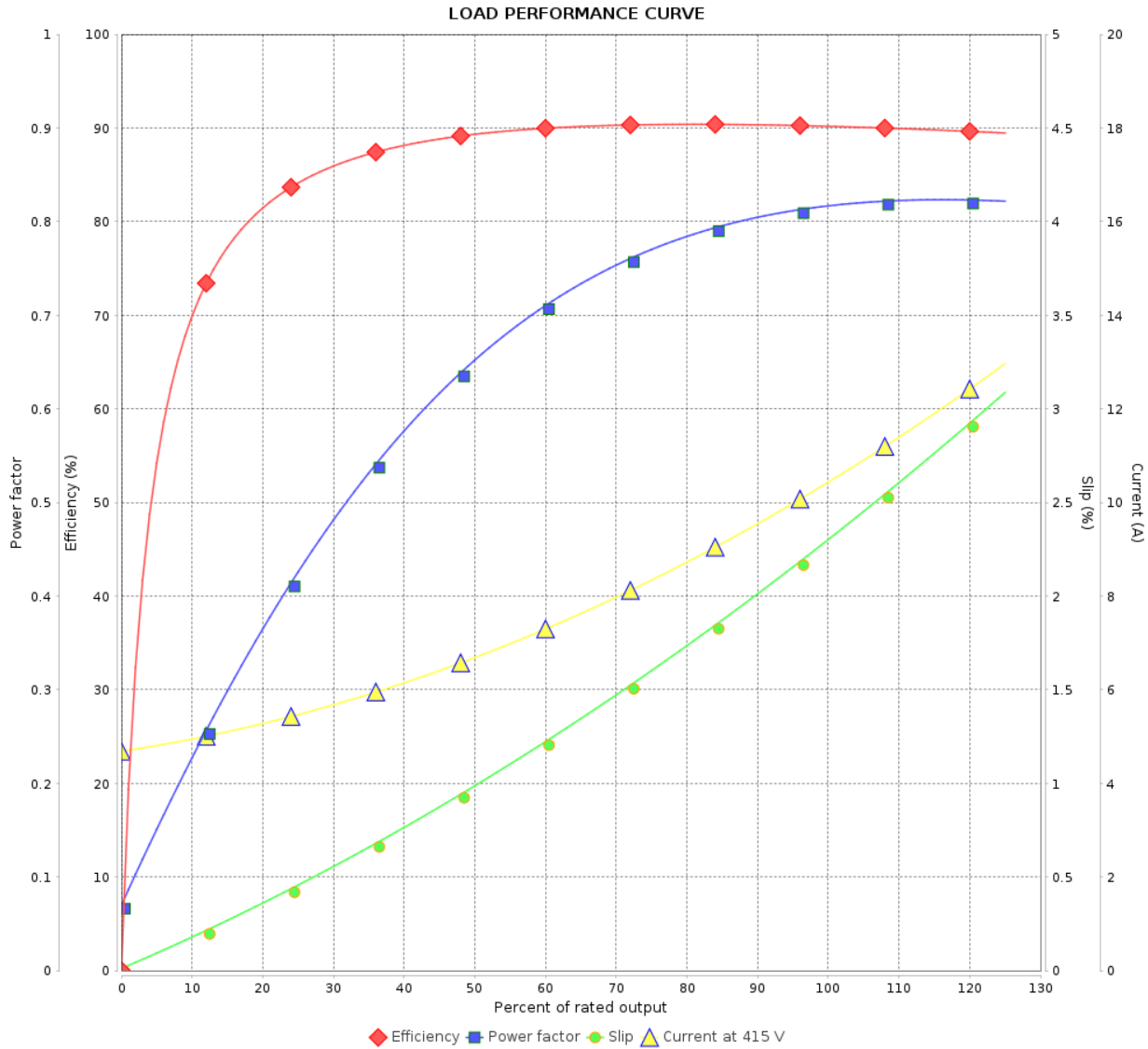


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 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
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THERMAL LIMIT CURVE



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Heating constant

Cooling constant

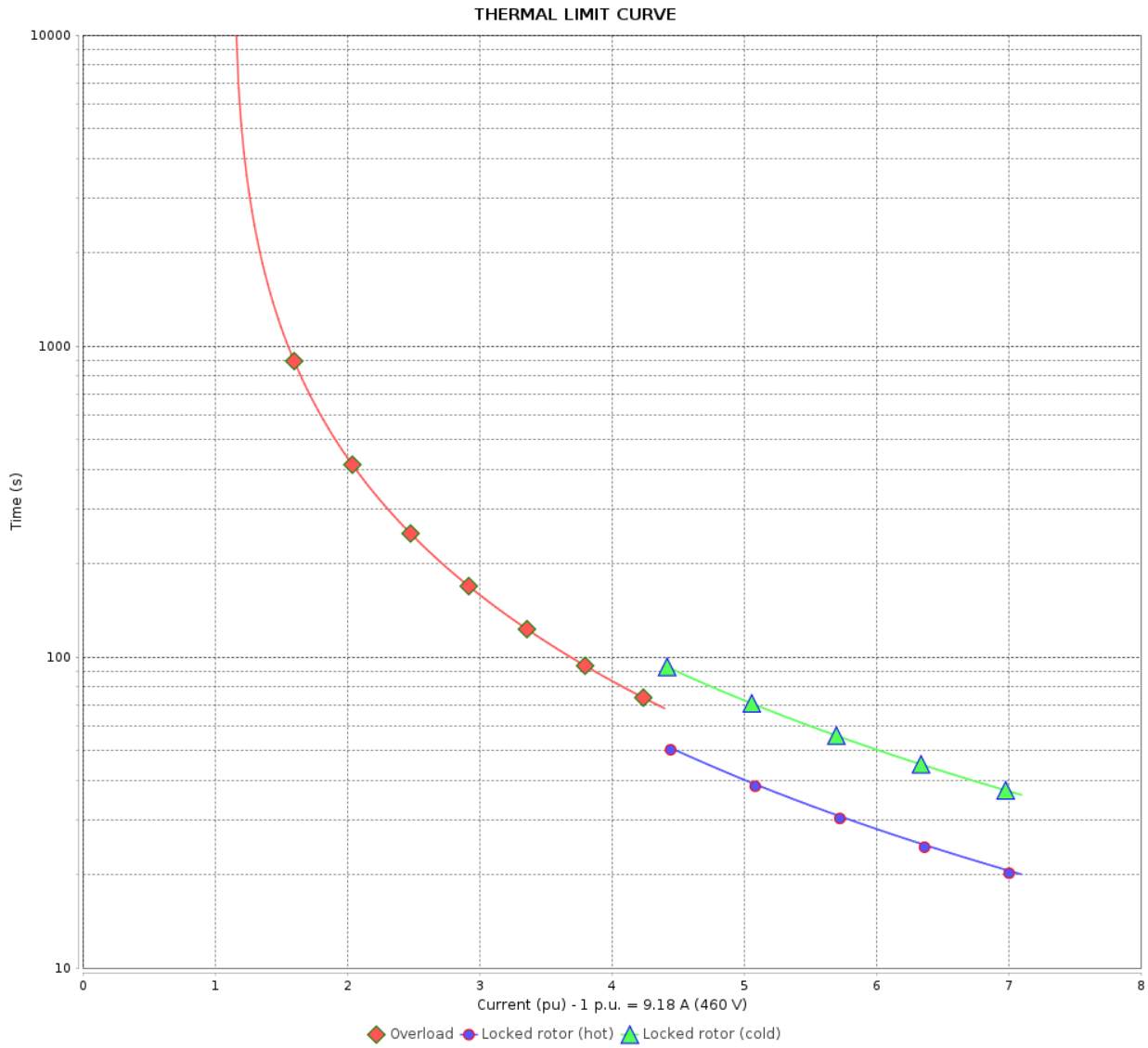
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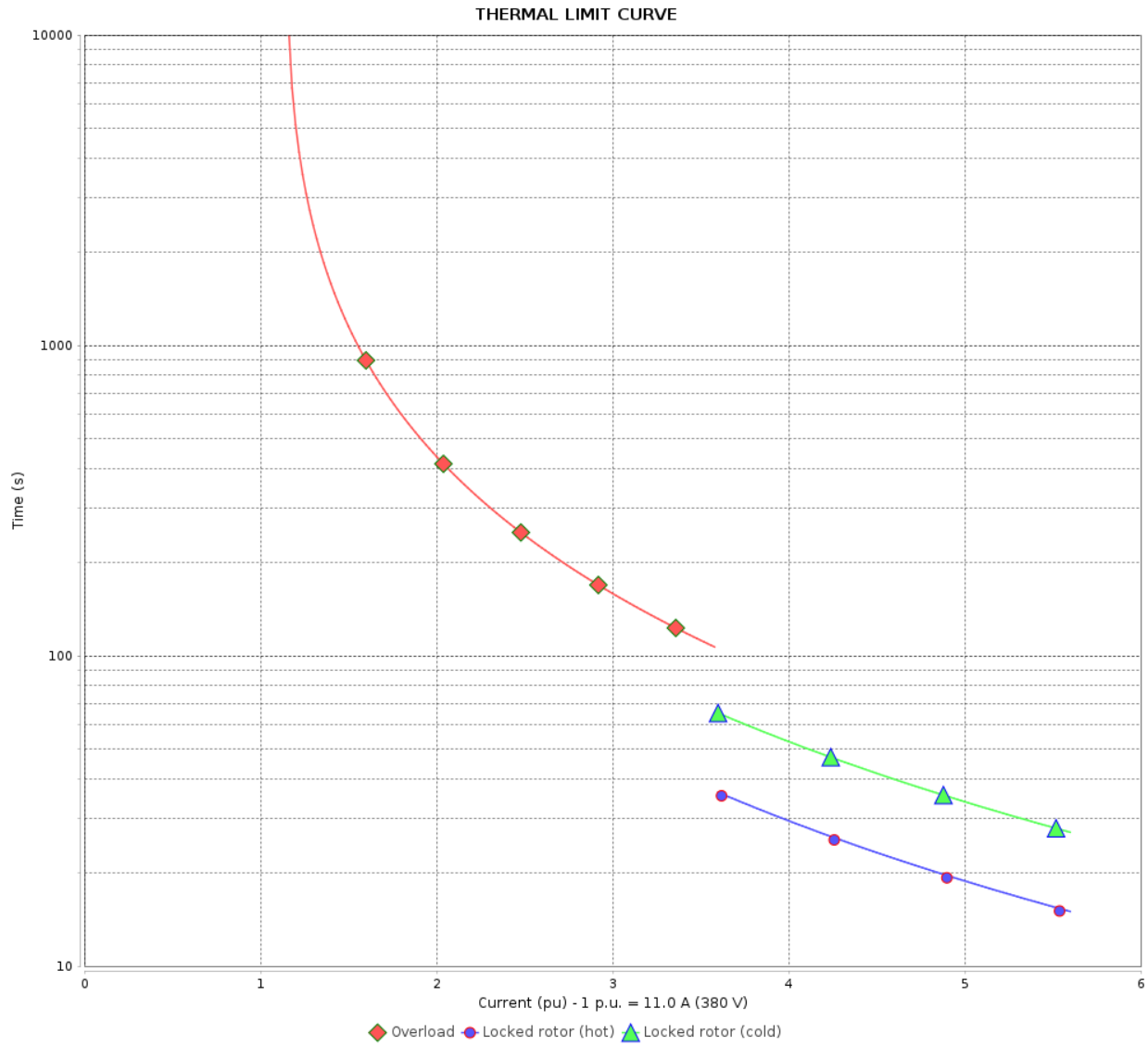
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LRC : 6.2	Duty cycle : Cont.(S1)
Rated torque : 27.0 ft.lb	Insulation class : F
Locked rotor torque : 190 %	Service factor : 1.15
Breakdown torque : 270 %	Temperature rise : 80 K
Rated speed : 1460 rpm	Design : B

Heating constant

Cooling constant

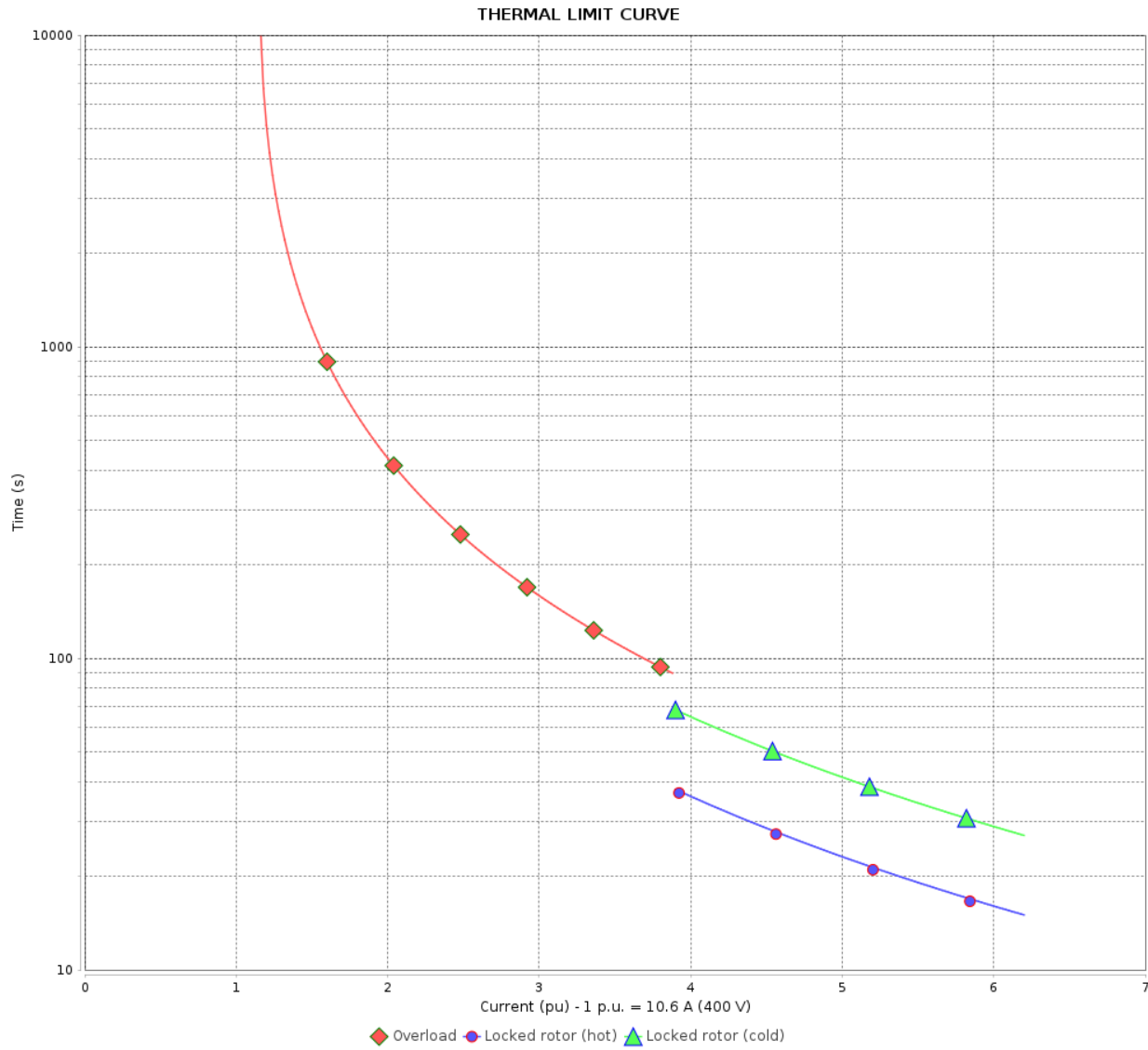
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LRC : 6.7	Duty cycle : Cont.(S1)
Rated torque : 26.9 ft.lb	Insulation class : F
Locked rotor torque : 210 %	Service factor : 1.15
Breakdown torque : 290 %	Temperature rise : 80 K
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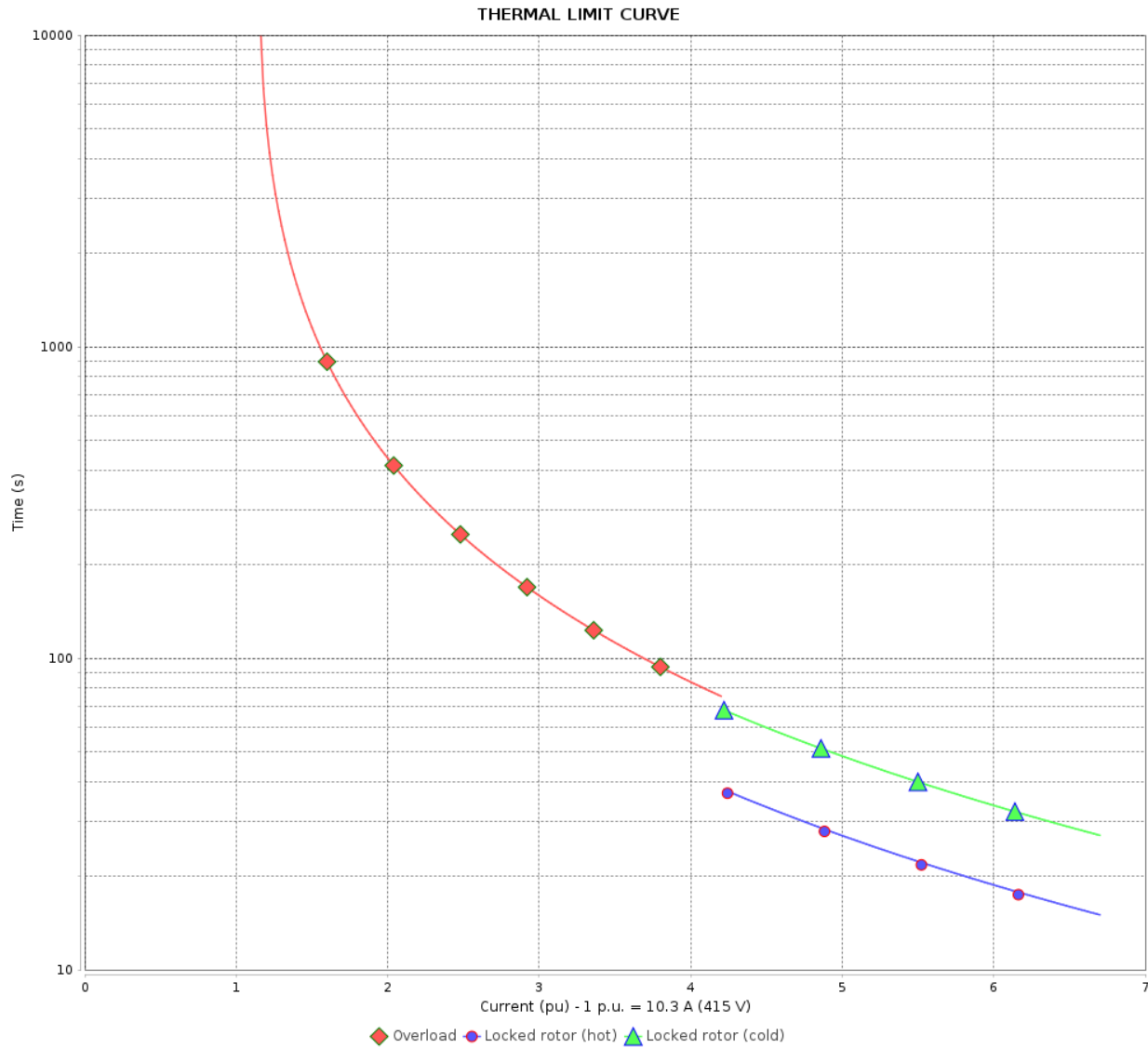
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VFD OPERATION CURVE

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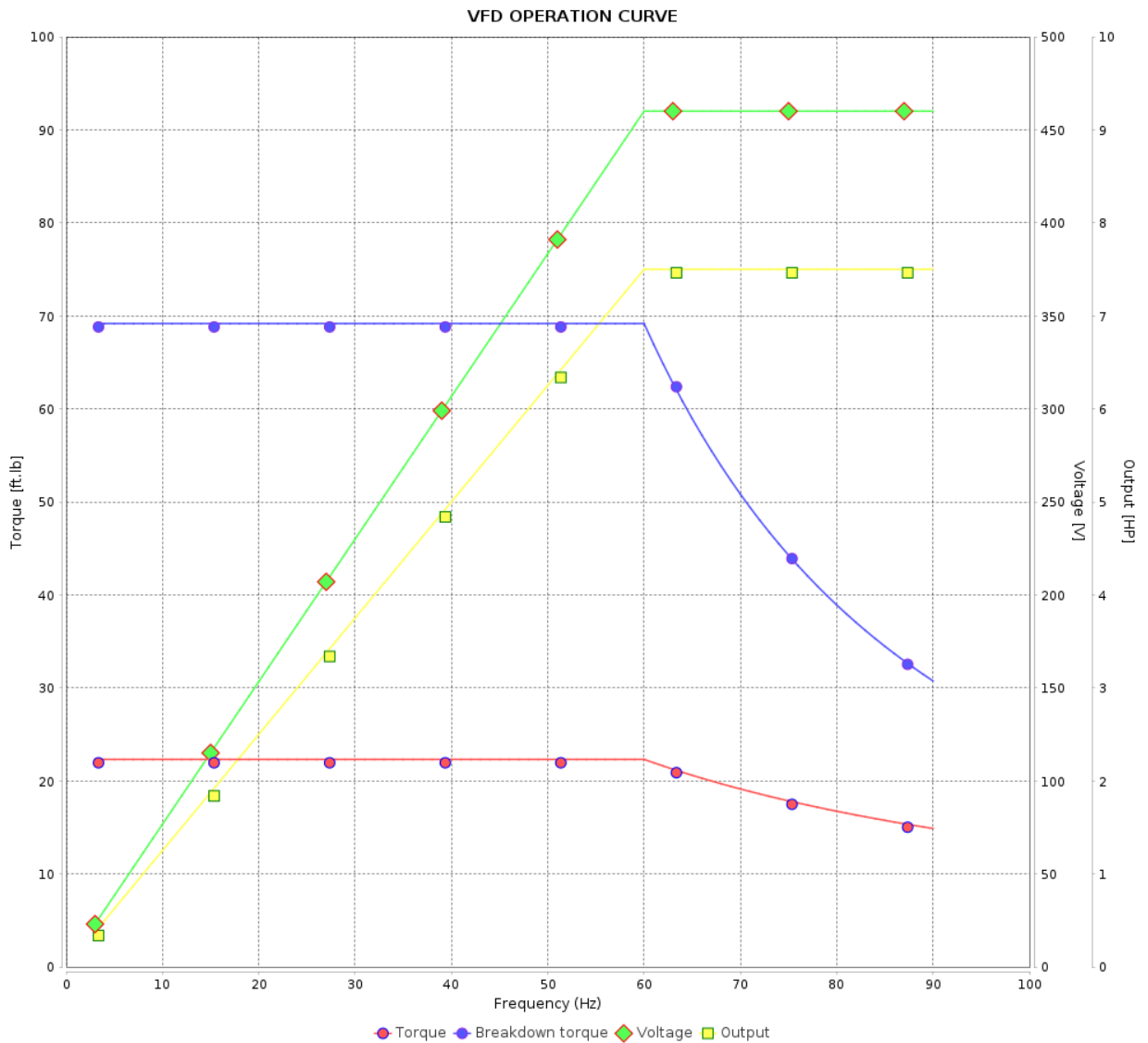


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Performance : 460 V 60 Hz 4P

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 Rated speed : 1765 rpm

Moment of inertia (J) : 1.34 sq.ft.lb
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VFD OPERATION CURVE

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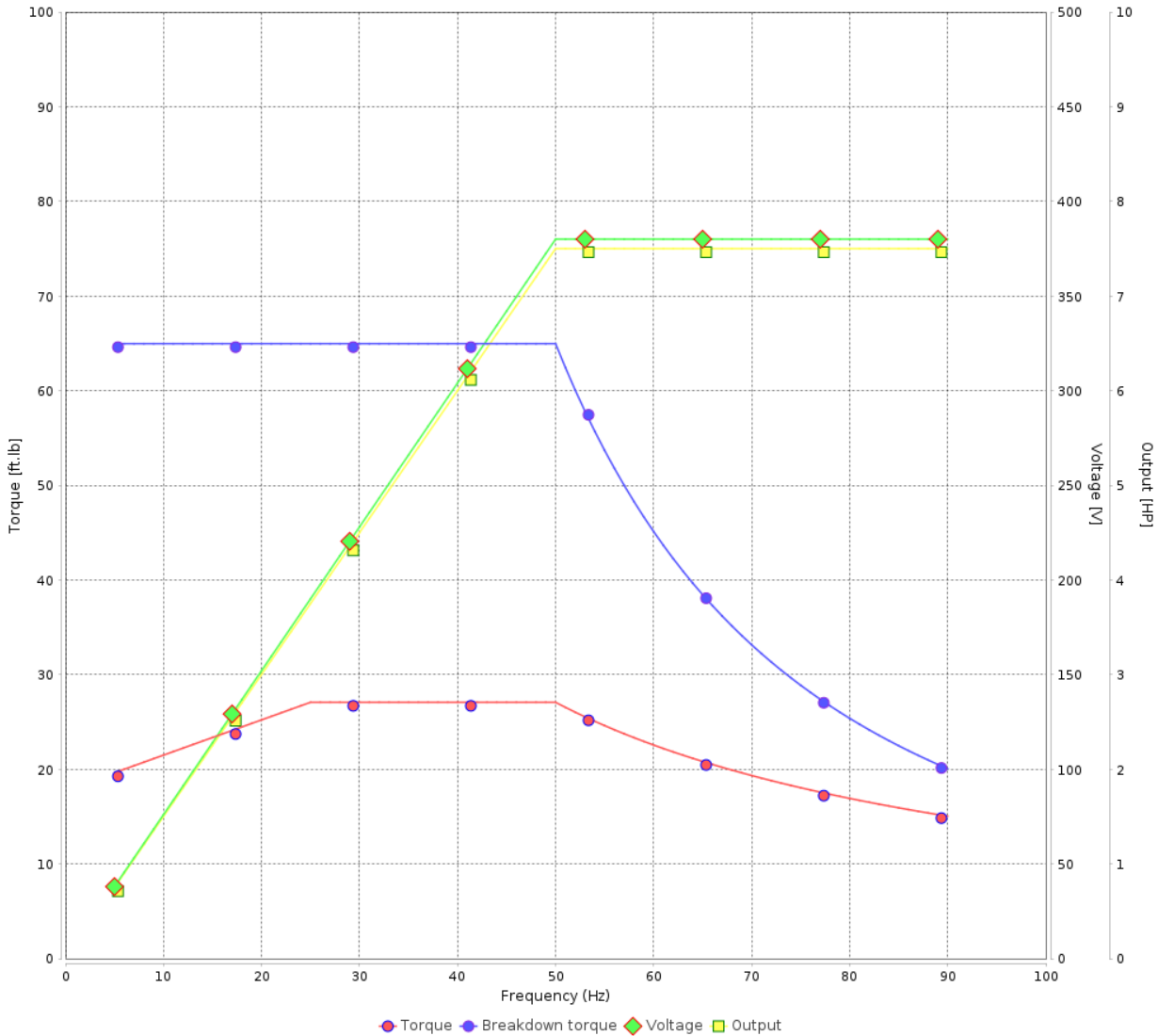
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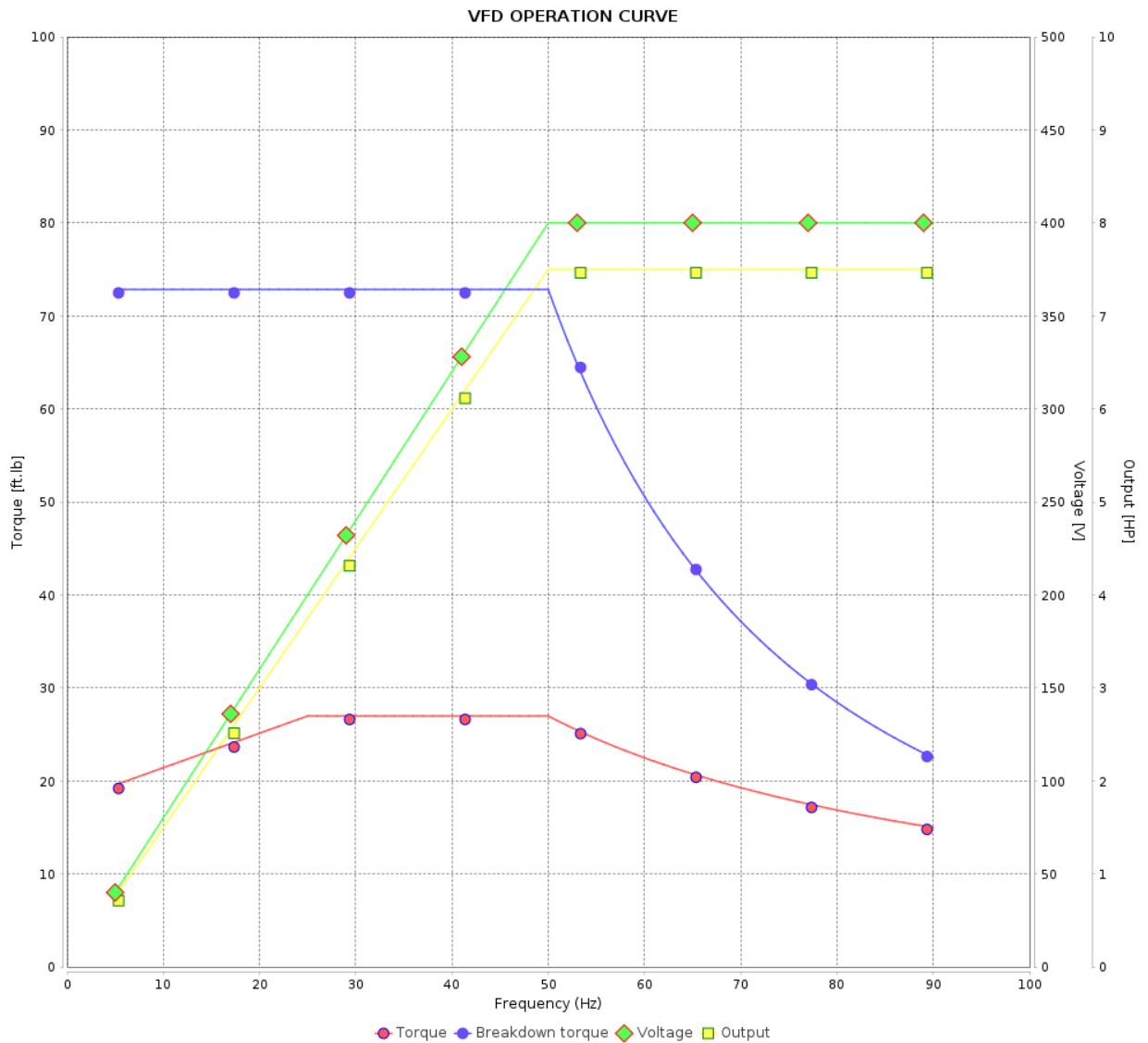


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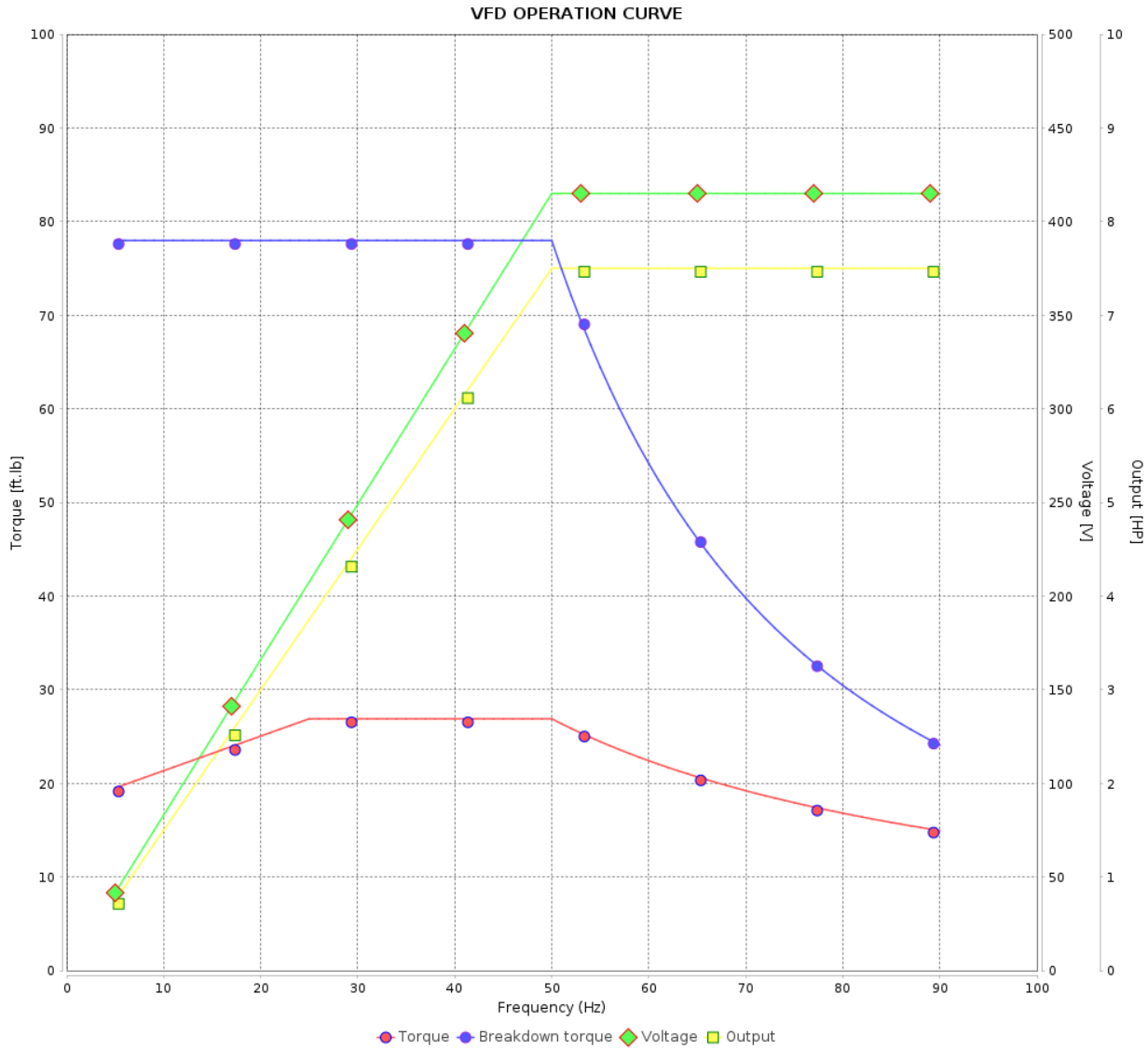


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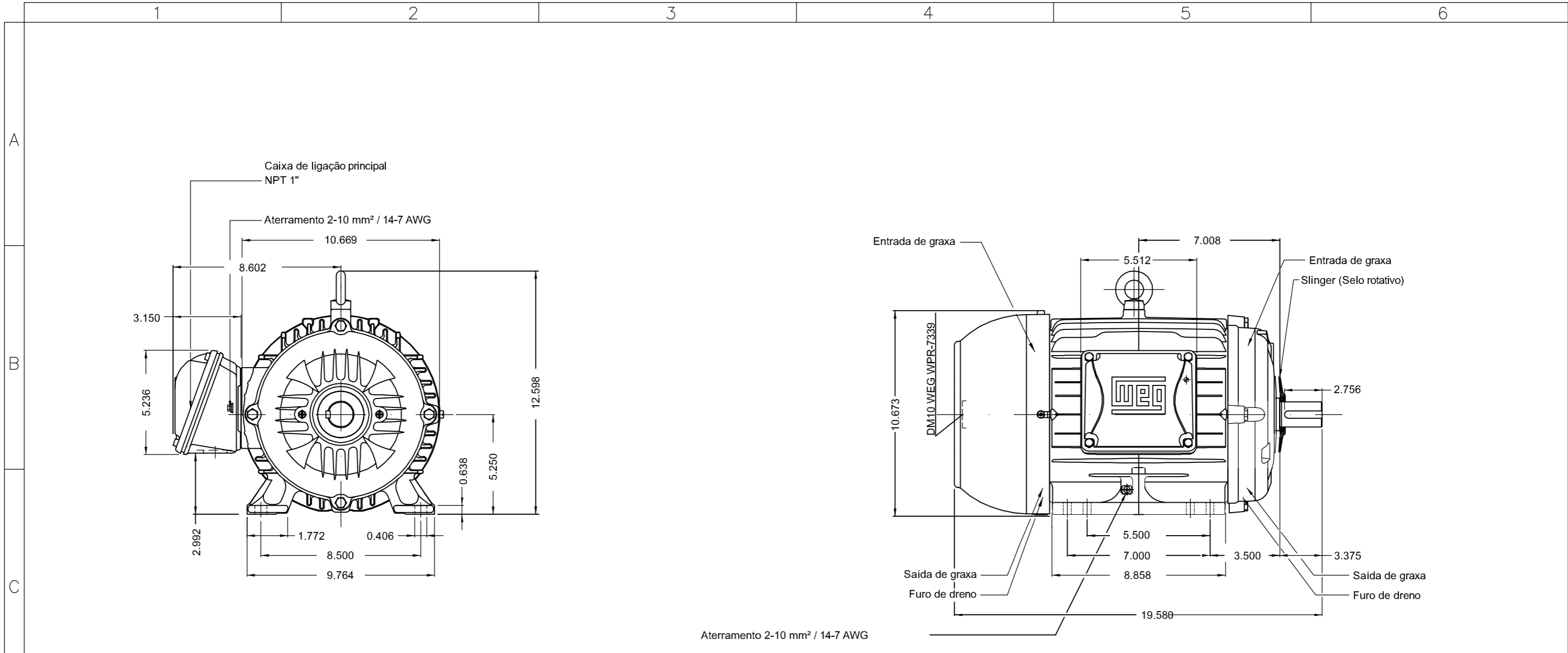


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 Rated torque : 26.9 ft.lb
 Locked rotor torque : 210 %
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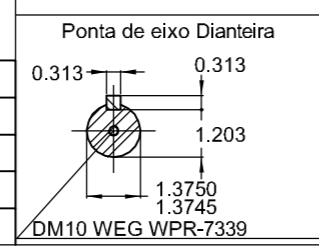
Aterramento 2-10 mm² / 14-7 AWG

420104067
421801240 PLACAS

7.5 HP 04 Polos 60 Hz A

WEG HOUSE ACCOUNT MOTORS

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ECM	LOC	RESUMO MODIFICAÇÃO			EXECUTADO	VERIFICADO	LIBERADO	DATA	VER
EXECUTOR	SCARMAGNANI	MOTOR TRIF. W22 NEMA P. EFF. IEEEE841		10009784053					
VERIFICADOR	SCARMAGNANI	CARÇAÇA 213/5T IP56 TEFC		000	05				
LIBERADOR	MARLONB								
DATA LB.	08.06.2022	WMO	JARAGUA DO SUL	Engenharia de Produto	FOLHA	1 / 1			



- Placa de identificação com a marcação API 661
- Placa de identificação com marcação especial
- Saída de graxa conforme IEEEE841
- Forma construtiva NEMA W-8
- Forma construtiva V6D

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Dimensões em polegadas

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