

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :				
Product line	: Rolled Steel NEMA Premium Efficiency Three-Phase	Product code :	13484505	
		Catalog # :	00318OT3ER182TC-S	
Frame	: 182/4TC	Cooling method	: IC01 - ODP	
Insulation class	: F	Mounting	: W-6	
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	: 76.7 lb	
Design	: B	Moment of inertia (J)	: 0.3092 sq.ft.lb	
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]	7.72/3.86	9.08/4.54	8.41/4.46	
L. R. Amperes [A]	64.8/32.4	58.1/29.1	59.7/31.7	
LRC [A]	8.4x(Code K)	6.4x(Code H)	7.1x(Code J)	
No load current [A]	4.14/2.07	4.08/2.04	4.20/2.22	
Rated speed [RPM]	1765	1460	1465	
Slip [%]	1.94	2.67	2.33	
Rated torque [ft.lb]	8.93	10.8	10.8	
Locked rotor torque [%]	220	150	170	
Breakdown torque [%]	330	240	280	
Service factor	1.15	1.15	1.15	
Temperature rise	80 K	80 K	80 K	
Locked rotor time	27s (cold) 15s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)	
Noise level ²	55.0 dB(A)	53.0 dB(A)	53.0 dB(A)	
Efficiency (%)	25%	86.4	85.6	88.0
	50%	87.5	86.0	87.3
	75%	88.5	86.5	87.9
	100%	89.5	86.7	86.9
Power Factor	25%	0.35	0.42	0.37
	50%	0.60	0.68	0.63
	75%	0.73	0.79	0.76
	100%	0.80	0.85	0.82
Bearing type	: <u>Drive end</u> 6206 ZZ <u>Non drive end</u> 6205 ZZ	Foundation loads		
Sealing	: Without Without Bearing Seal Bearing Seal	Max. traction	: 154 lb	
		Max. compression	: 230 lb	
Lubrication interval	: - -			
Lubricant amount	: - -			
Lubricant type	: Mobil Polyrex EM			
Notes USABLE @208V 8.54A SF 1.00 SFA 8.54A				
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



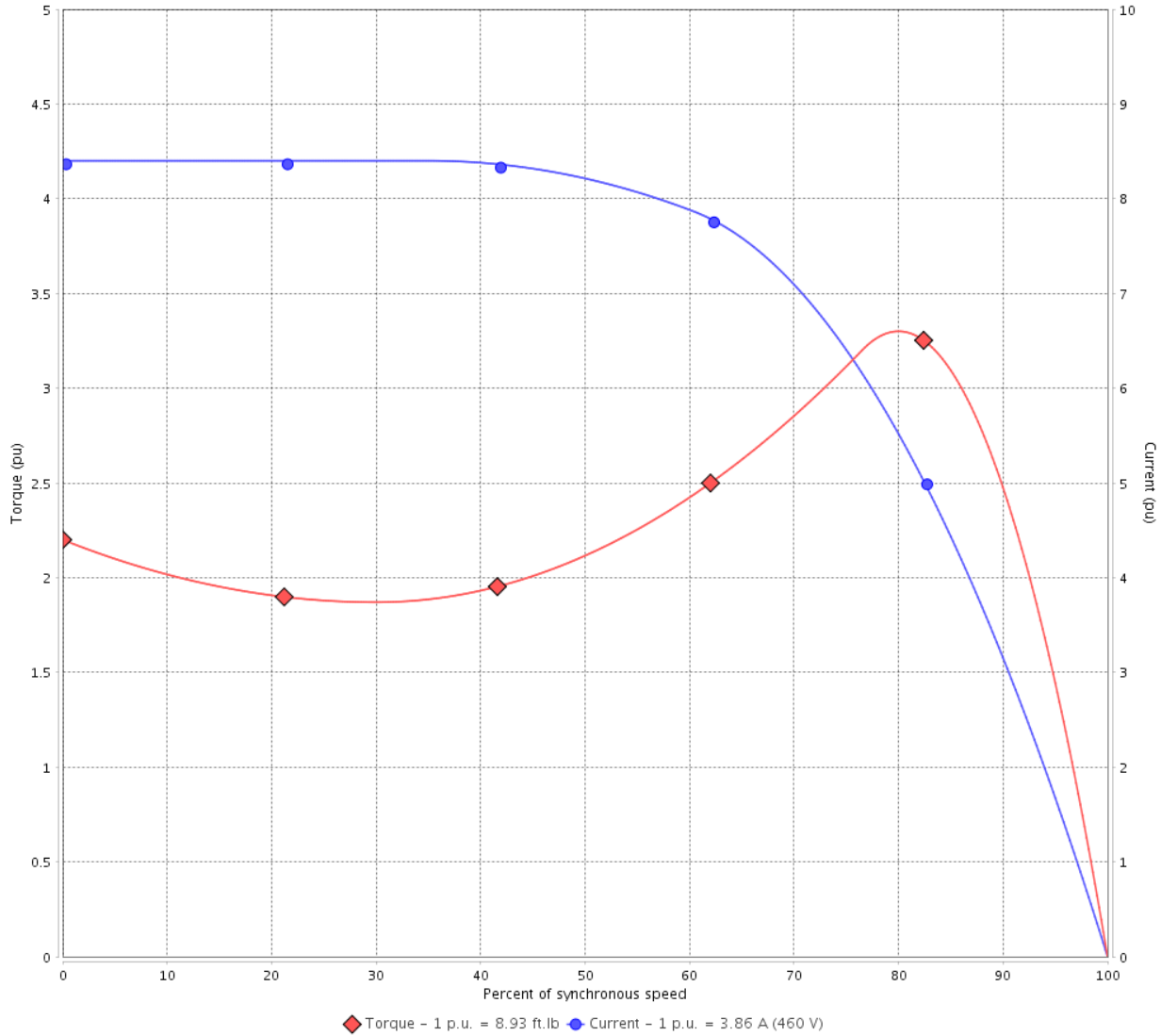
Customer :

Product line : Rolled Steel NEMA Premium
Efficiency Three-Phase

Product code : 13484505

Catalog # : 003180T3ER182TC-S

TORQUE AND CURRENT VS SPEED CURVE



Performance : 230/460 V 60 Hz 4P

Rated current	: 7.72/3.86 A	Moment of inertia (J)	: 0.3092 sq.ft.lb
LRC	: 8.4	Duty cycle	: Cont.(S1)
Rated torque	: 8.93 ft.lb	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.15
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 1765 rpm	Design	: B

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

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TORQUE AND CURRENT VS SPEED CURVE



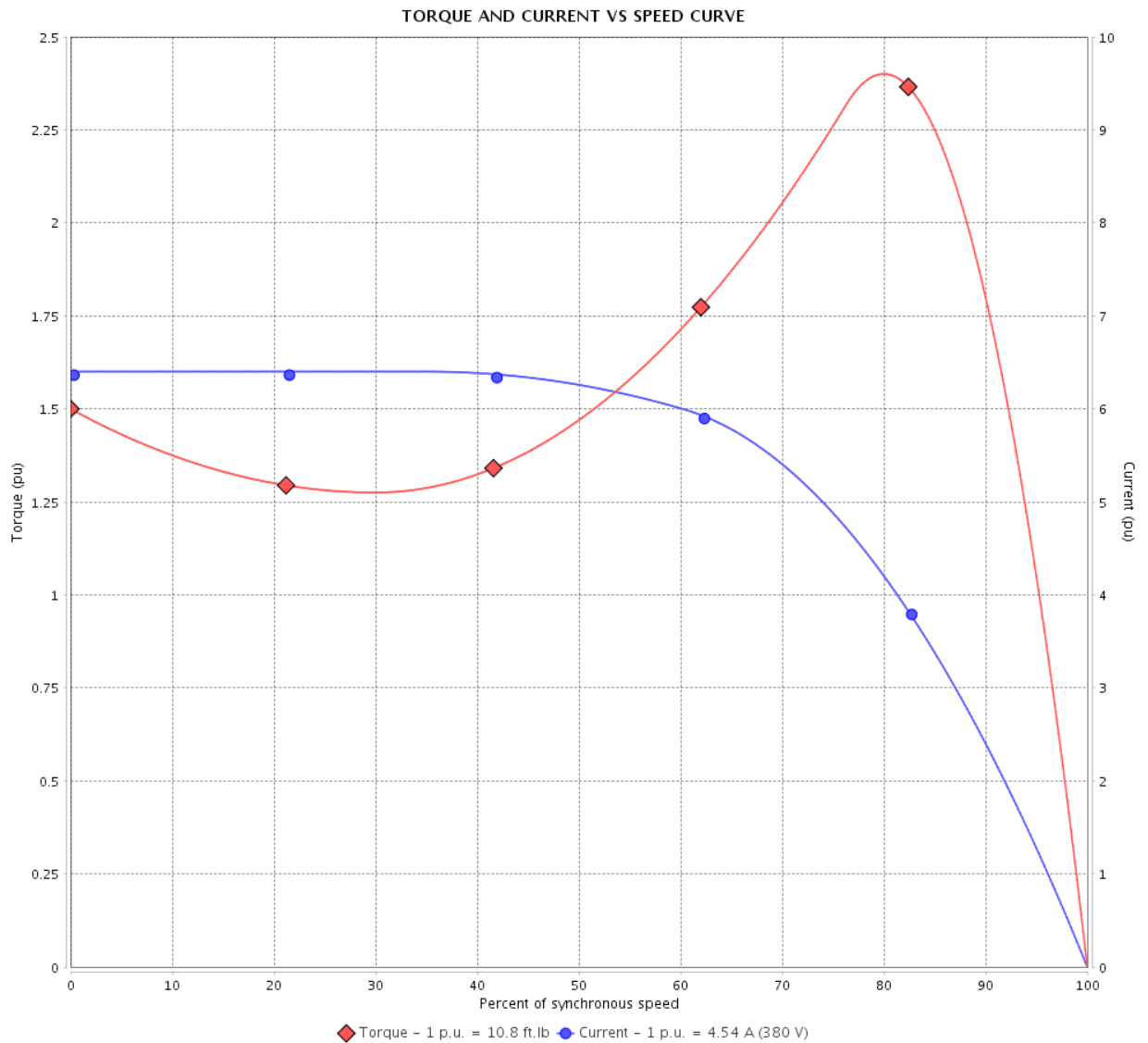
Three Phase Induction Motor - Squirrel Cage

Customer :

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Product code : 13484505

Catalog # : 00318OT3ER182TC-S



Performance : 190/380 V 50 Hz 4P

Rated current : 9.08/4.54 A
 LRC : 6.4
 Rated torque : 10.8 ft.lb
 Locked rotor torque : 150 %
 Breakdown torque : 240 %
 Rated speed : 1460 rpm

Moment of inertia (J) : 0.3092 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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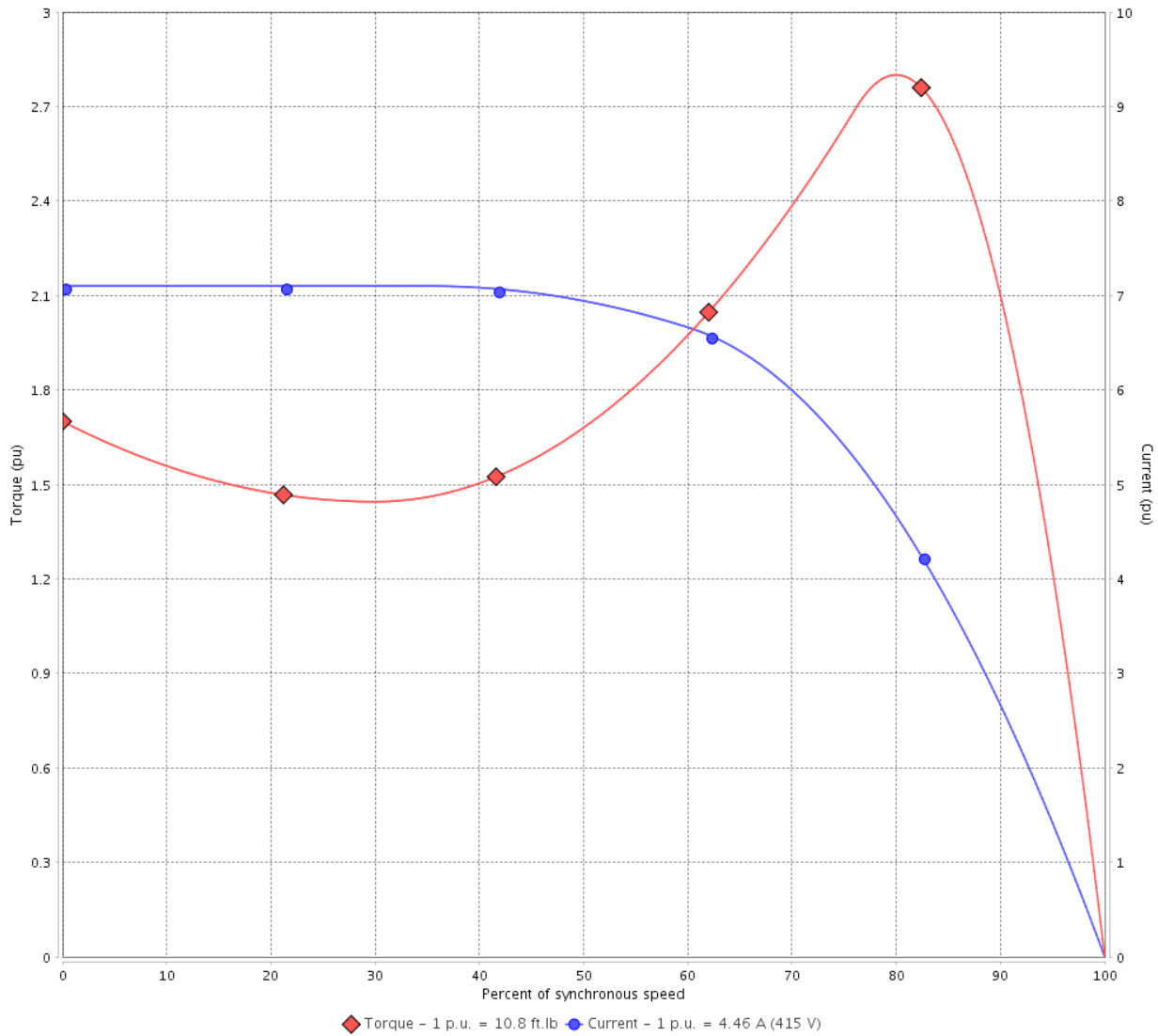
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TORQUE AND CURRENT VS SPEED CURVE



Performance : 220/415 V 50 Hz 4P

Rated current : 8.41/4.46 A
 LRC : 7.1
 Rated torque : 10.8 ft.lb
 Locked rotor torque : 170 %
 Breakdown torque : 280 %
 Rated speed : 1465 rpm

Moment of inertia (J) : 0.3092 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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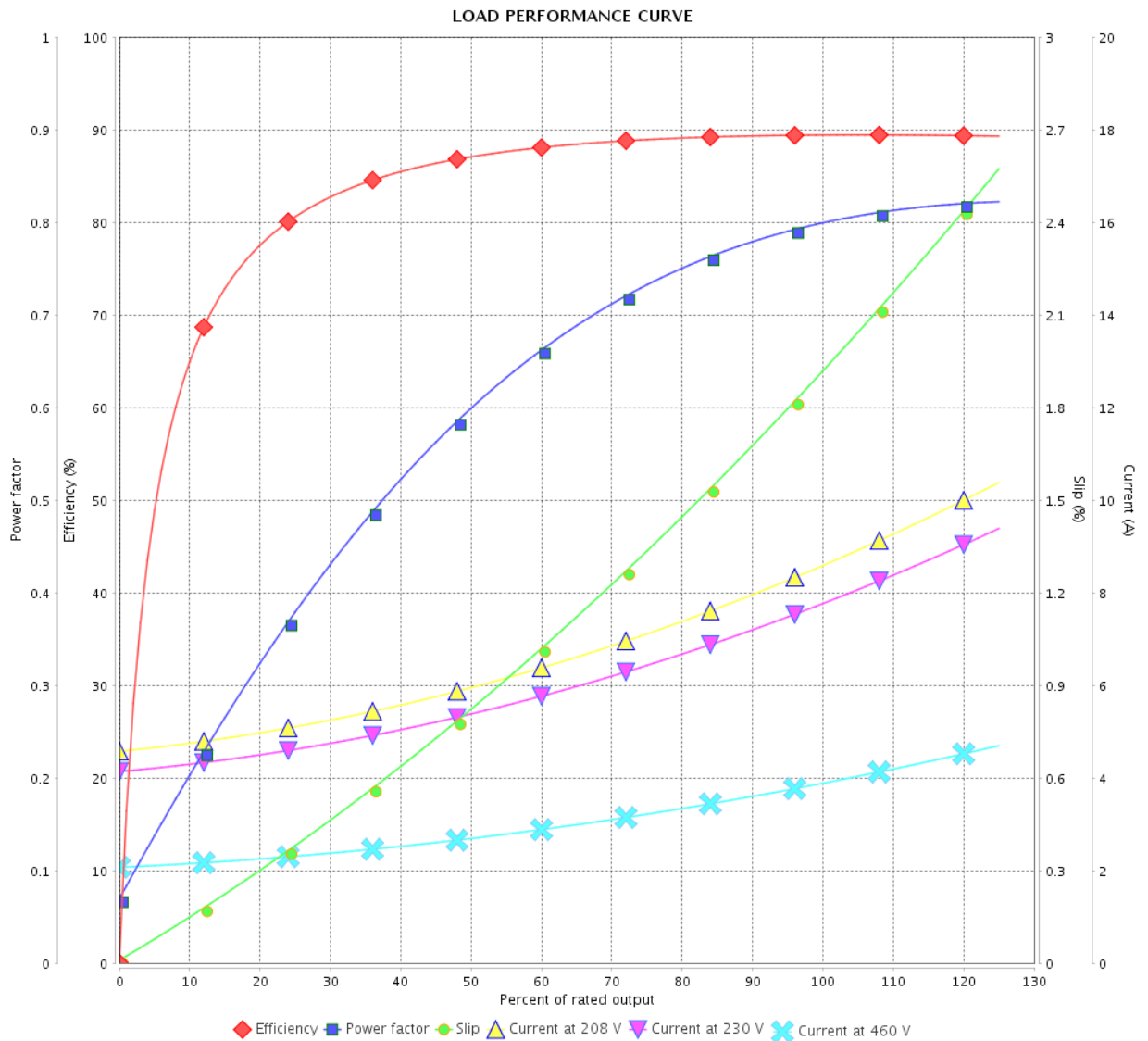


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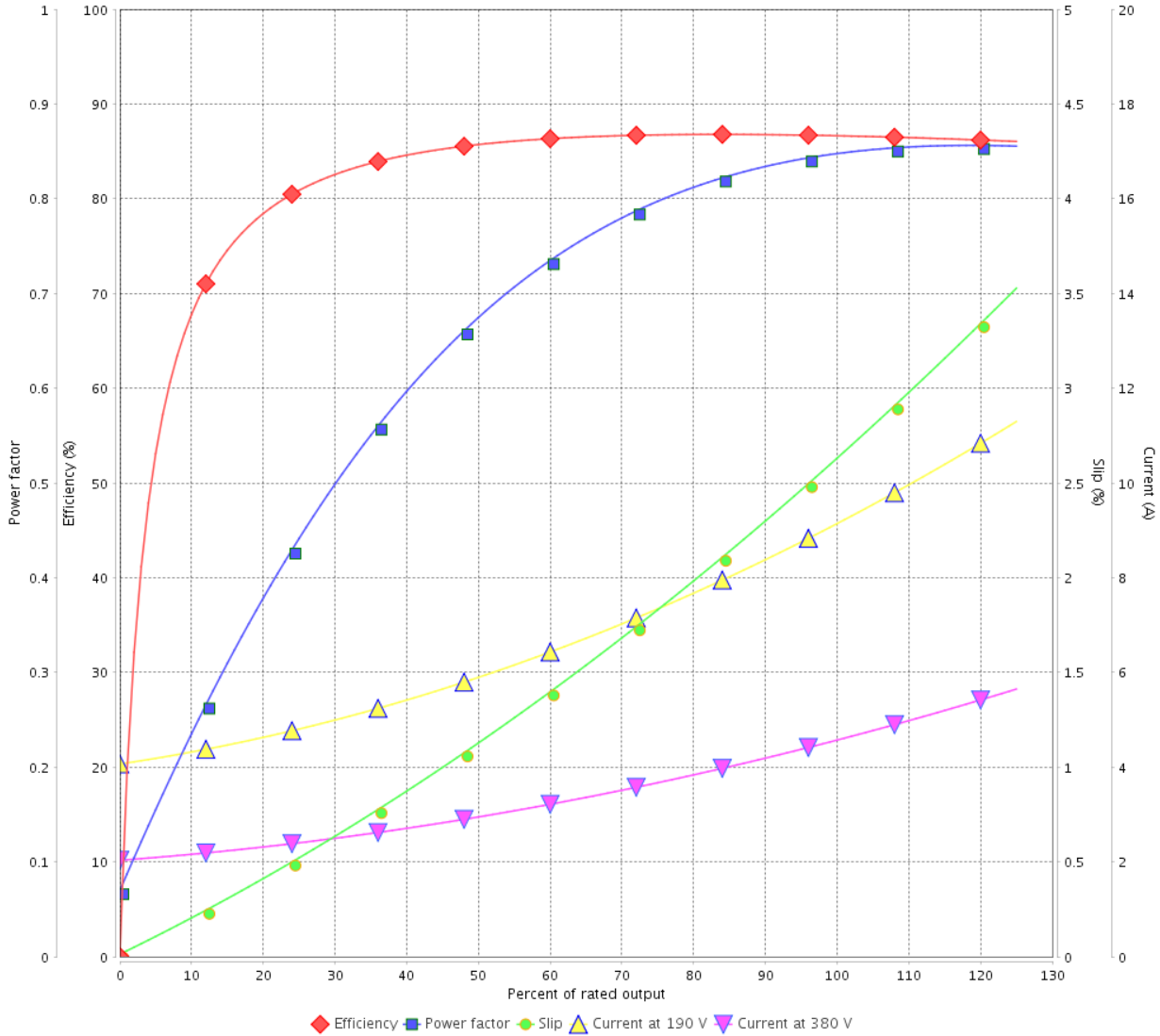
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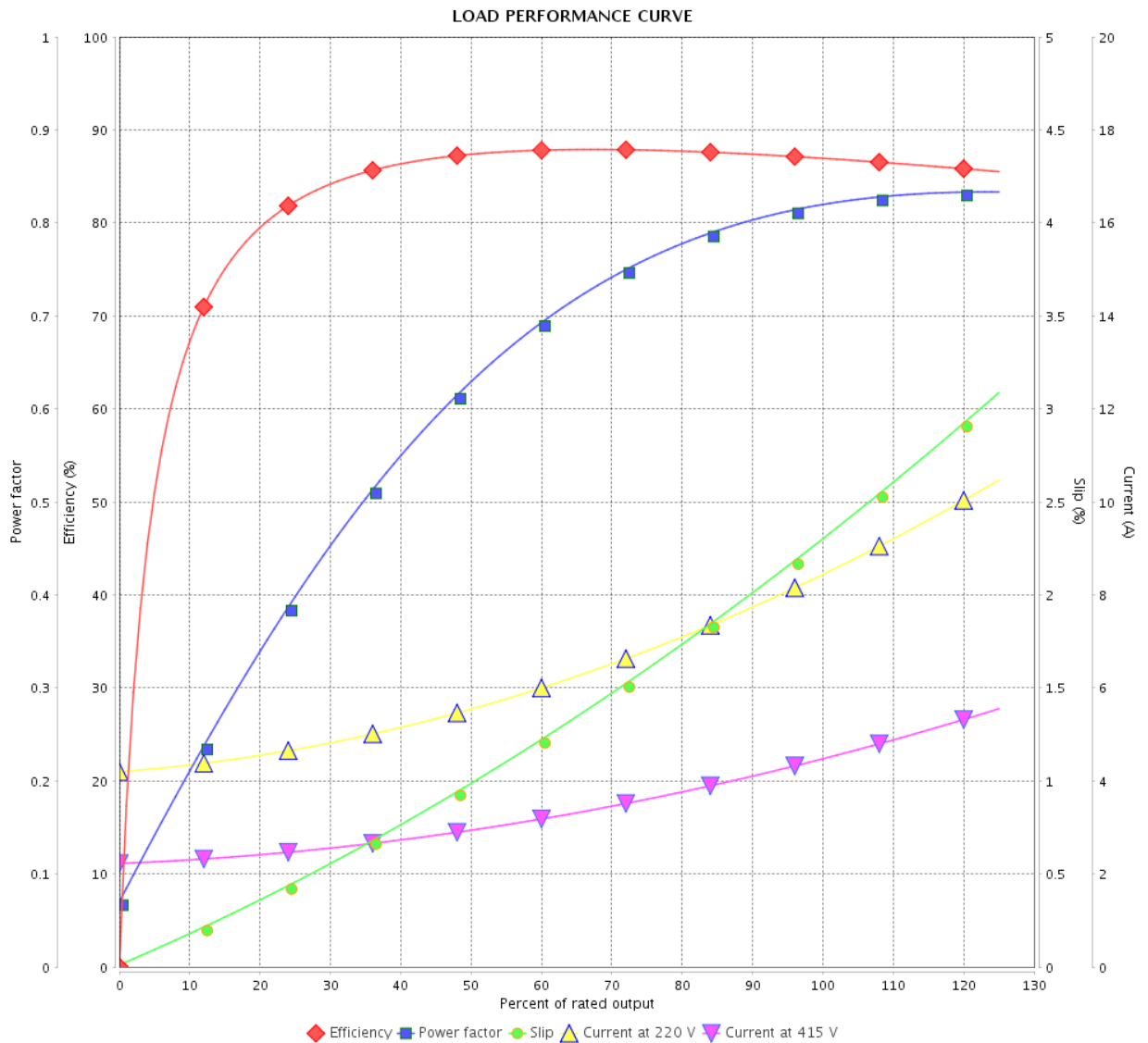


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THERMAL LIMIT CURVE



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Heating constant

Cooling constant

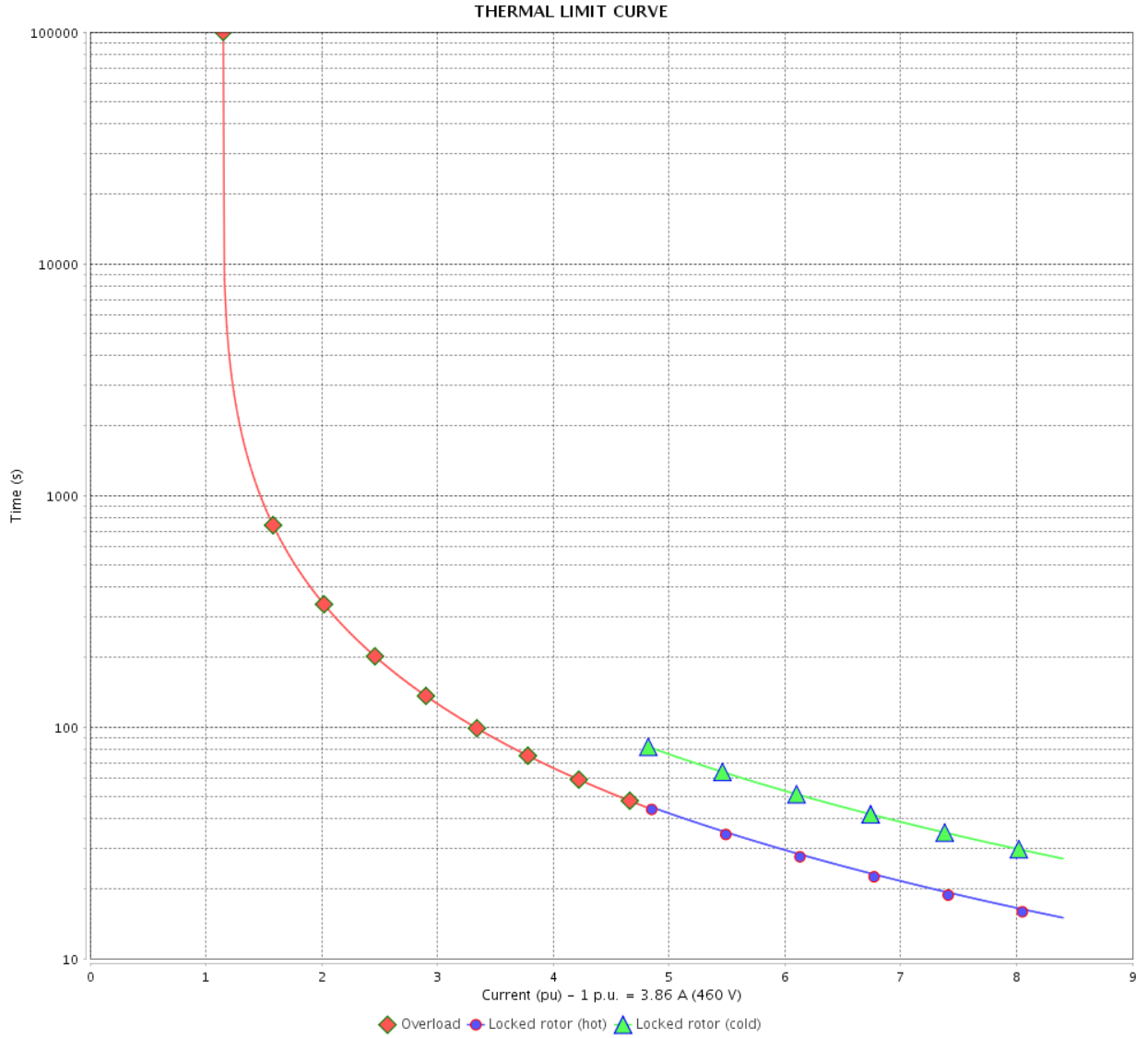
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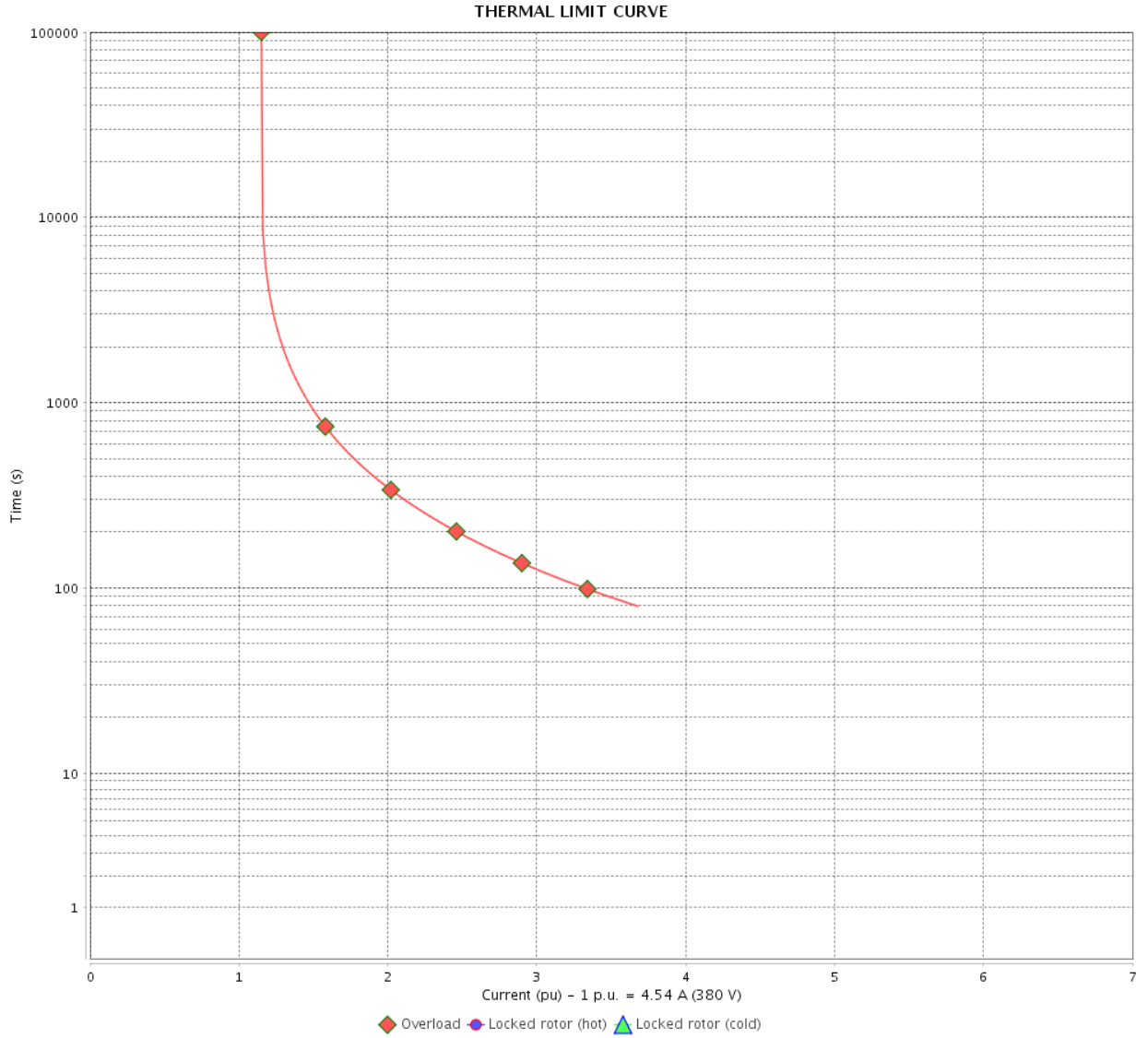
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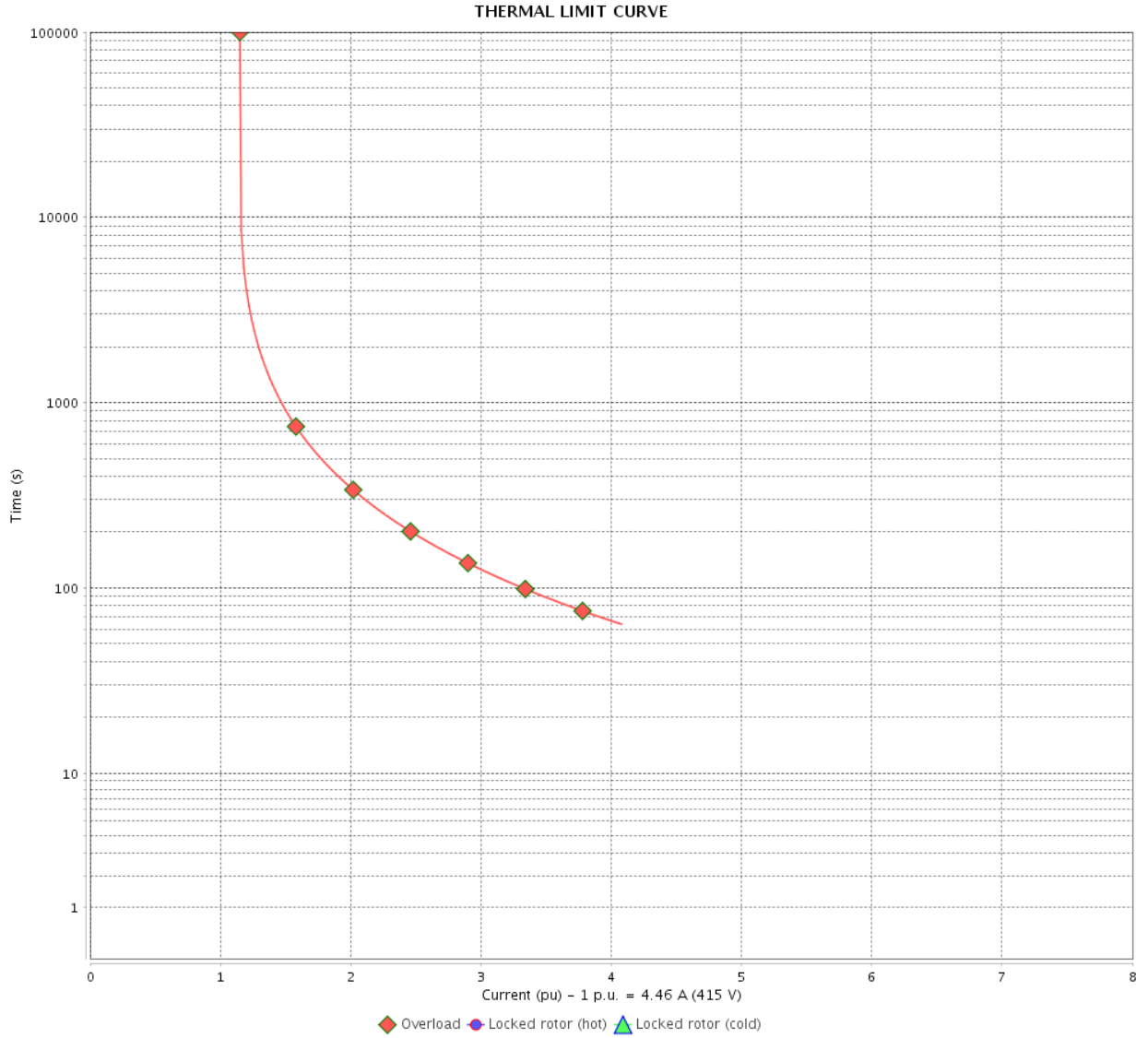
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

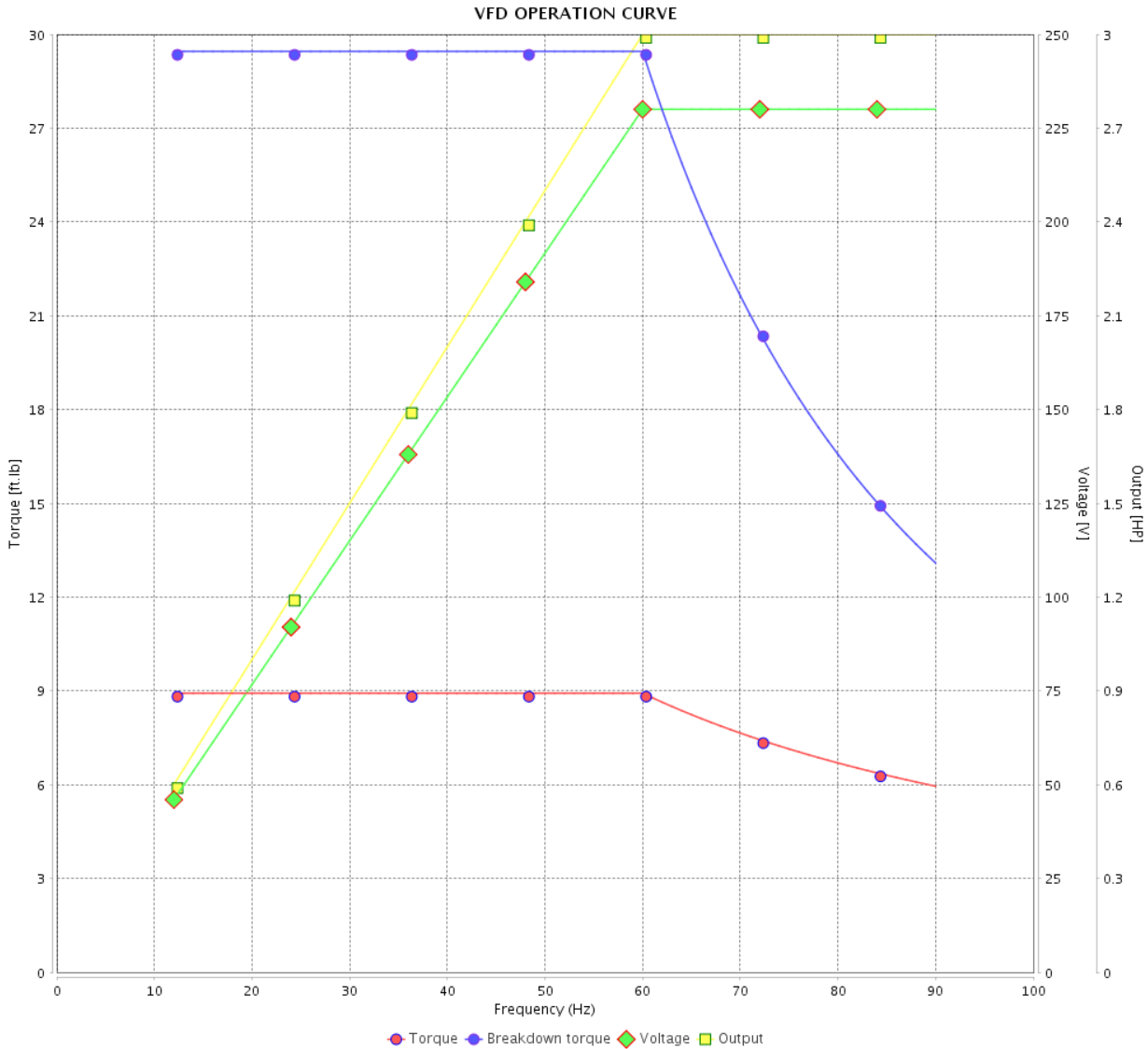


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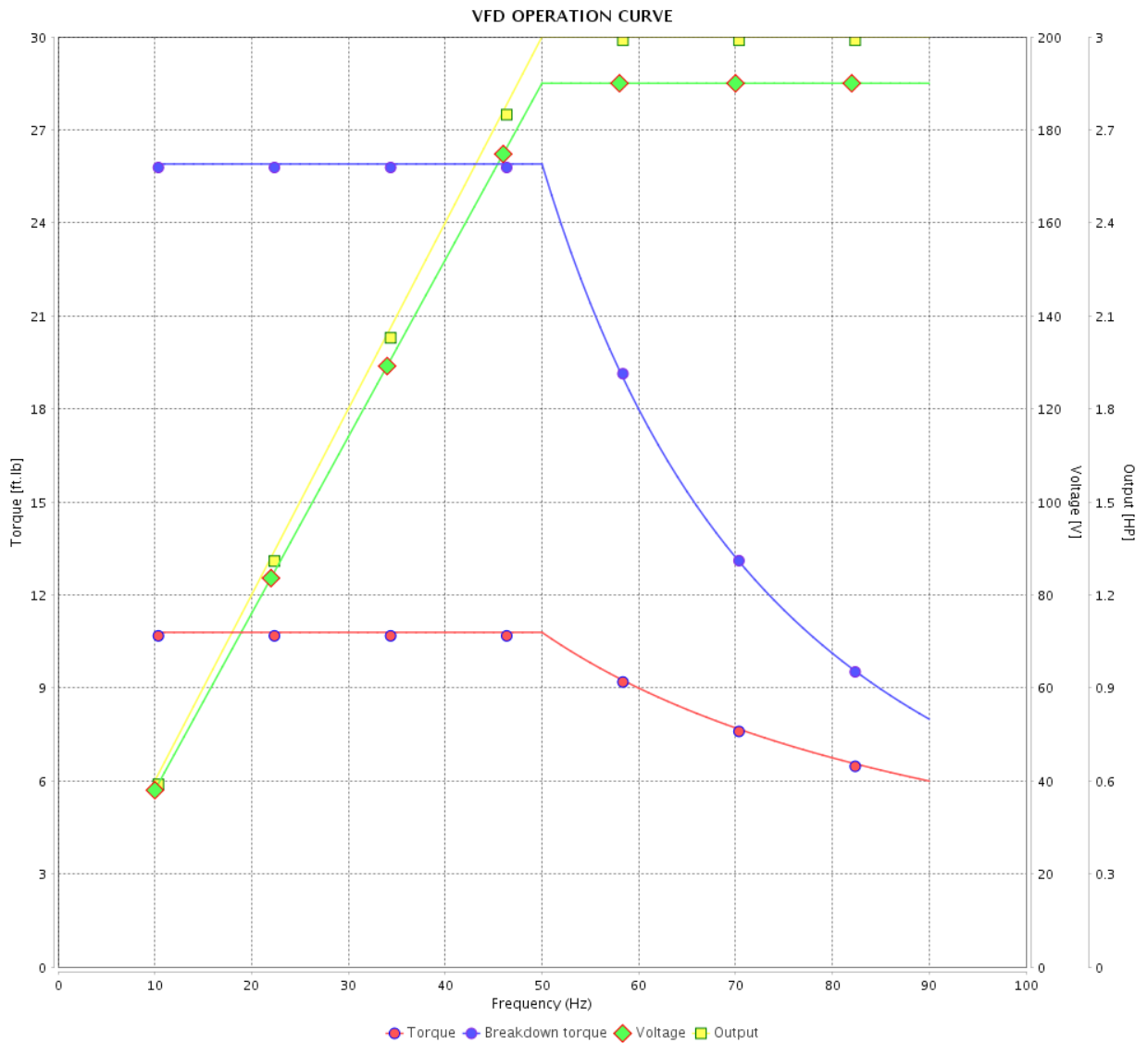


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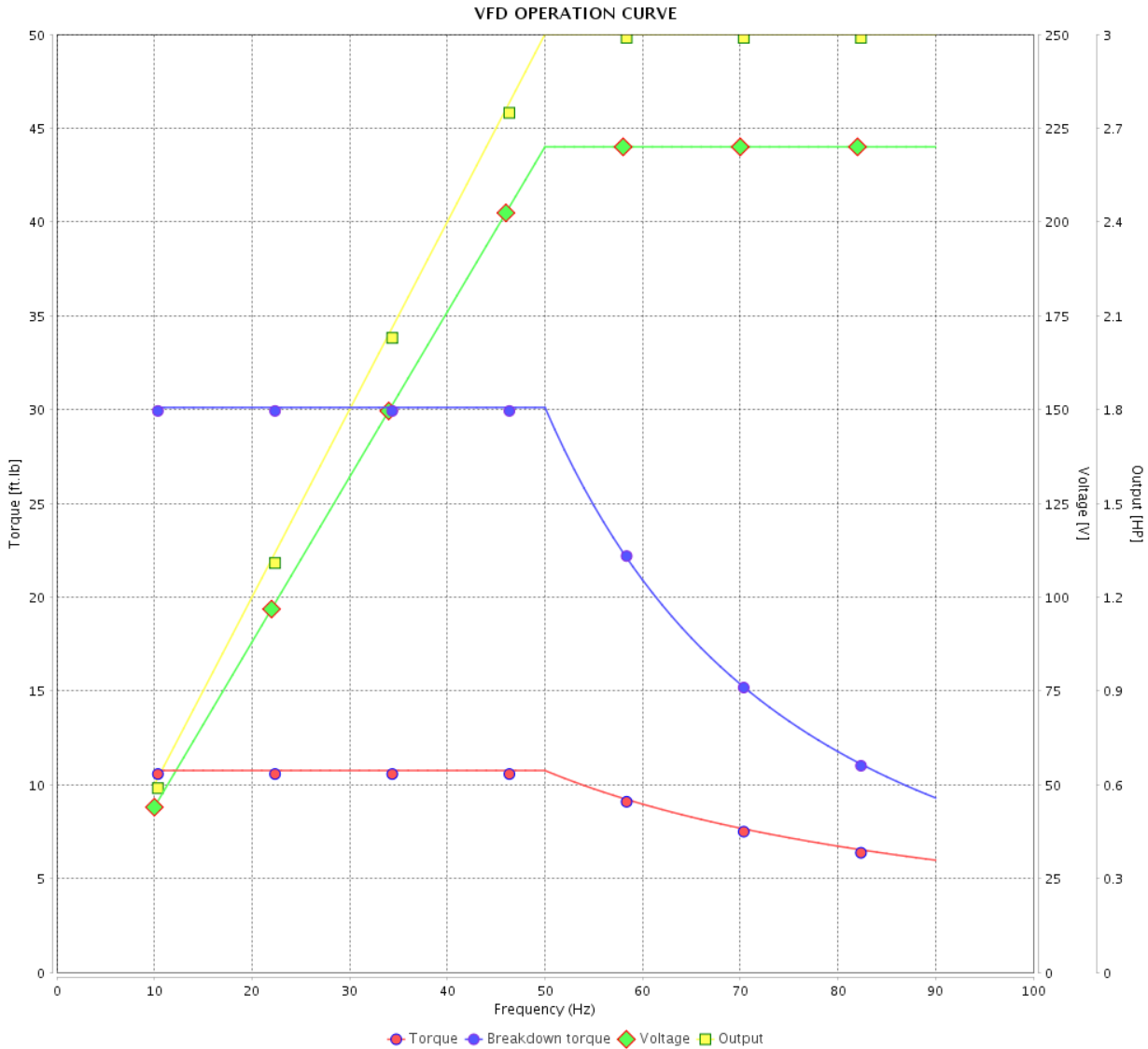


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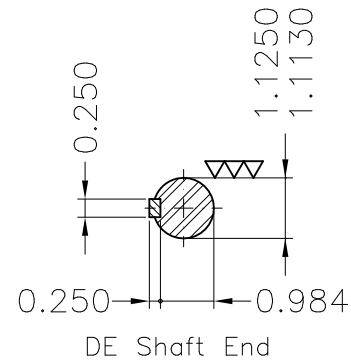
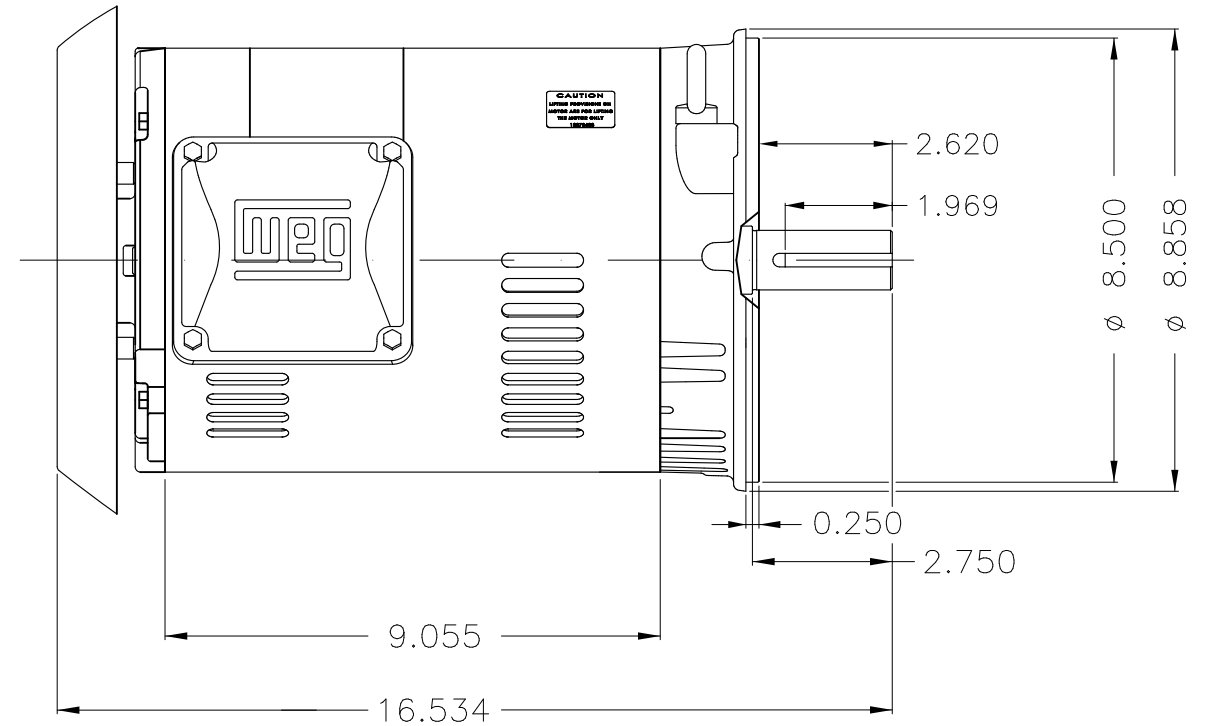
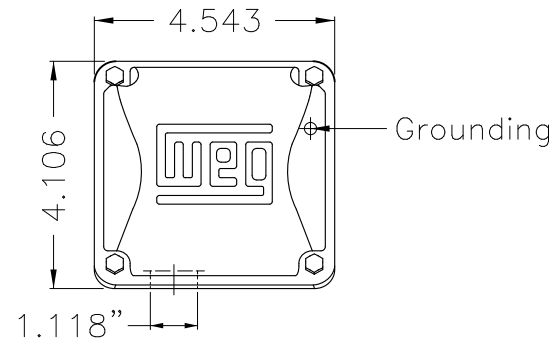
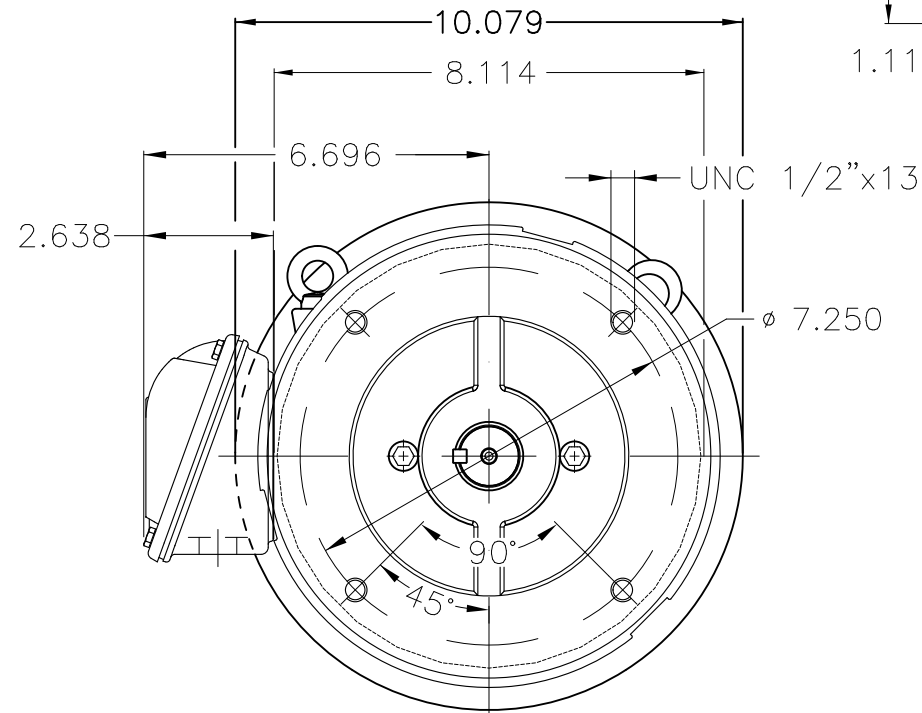
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EIXO	
PADRÃO	X
OPCIONAL	
ESPECIAL	

Dimensões em polegada
Dimensions in inches

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



Color Munsell N 1 matte black
Painting plan 207N
Mounting W-6/V18R(D)

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	USERADMIN	THREE P. MOTOR OPEN ROLLED STEEL NEMA PREM					
CHECKED		FRAME 182/4TC ODP					
RELEASED		WEG code: 13484505					
REL DT	16.02.2022	WMO Jaragua do Sul	Product Engineering	SHEET	1 / 1		

3 HP 04 Poles 60Hz

A



ZME A3



NEMA
Premium



MADE IN MEXICO

MAT: 13484505 CC029A

W01.T00IC0X0N

CP003404NPSW01

18OCT2021 S/N:



PH 3	Hz 60	HP 3.0
FR 182/4TC		KW 2.2
DUTY CONT.		V 230/460
ALT 1000 m.a.s.l.		A 7.72/3.86
INS CL F AT 80K		SFA 8.88/4.44
AMB 40°C	DES B	SF 1.15
ENCL ODP	CODE K	PF 0.80
USABLE @ 208V 8.54A		RPM 1765
SF1.00		NEMA NOM. EFF 89.5%

ALTERNATE RATING: 3.0HP 50Hz 190-220/380-415V SF1.15
9.08-8.17/4.54-4.33A 1460RPM EFF 86.7% (IE3) IEC 60034-1

Inverter duty motor For 80Hz use on VPWM 1000:1 VT, 5:1 CT

DE 6206-ZZ	ODE 6205-ZZ	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

INTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION



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.

