

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :			
Product line	: Rolled Steel NEMA Premium Efficiency Three-Phase	Product code :	12630776
		Catalog # :	00518ET3E184T-S
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	: 74.6 lb
Protection degree	: IP55	Moment of inertia (J)	: 0.3080 sq.ft.lb
Design	: B		
Output [HP]	5	5	5
Poles	4	4	4
Frequency [Hz]	60	50	50
Rated voltage [V]	230/460	190-220/380	415
Rated current [A]	13.0/6.49	15.8-13.6/7.88	7.47
L. R. Amperes [A]	90.9/45.4	91.4-78.9/45.7	50.8
LRC [A]	7.0x(Code J)	5.8x(Code G)	6.8x(Code J)
No load current [A]	6.89/3.44	6.74-5.82/3.37	4.16
Rated speed [RPM]	1750	1425	1440
Slip [%]	2.78	5.00	4.00
Rated torque [ft.lb]	15.0	18.4	18.2
Locked rotor torque [%]	220	170	220
Breakdown torque [%]	300	229	290
Service factor	1.15	1.00	1.00
Temperature rise	80 K	105 K	105 K
Locked rotor time	28s (cold) 16s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)
Noise level ²	56.0 dB(A)	53.0 dB(A)	53.0 dB(A)
Efficiency (%)	25%		
	50%	88.5	87.9
	75%	89.5	87.2
	100%	89.5	86.1
Power Factor	25%		
	50%	0.60	0.68
	75%	0.73	0.80
	100%	0.80	0.80
Bearing type	: <u>Drive end</u> 6206 ZZ <u>Non drive end</u> 6205 ZZ	Foundation loads	
Sealing	: V'Ring Without Bearing Seal	Max. traction	: 301 lb
		Max. compression	: 375 lb
Lubrication interval	: -		
Lubricant amount	: -		
Lubricant type	: Mobil Polyrex EM		
Notes USABLE @208V 14.4A SF 1.00 SFA 14.4A			
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

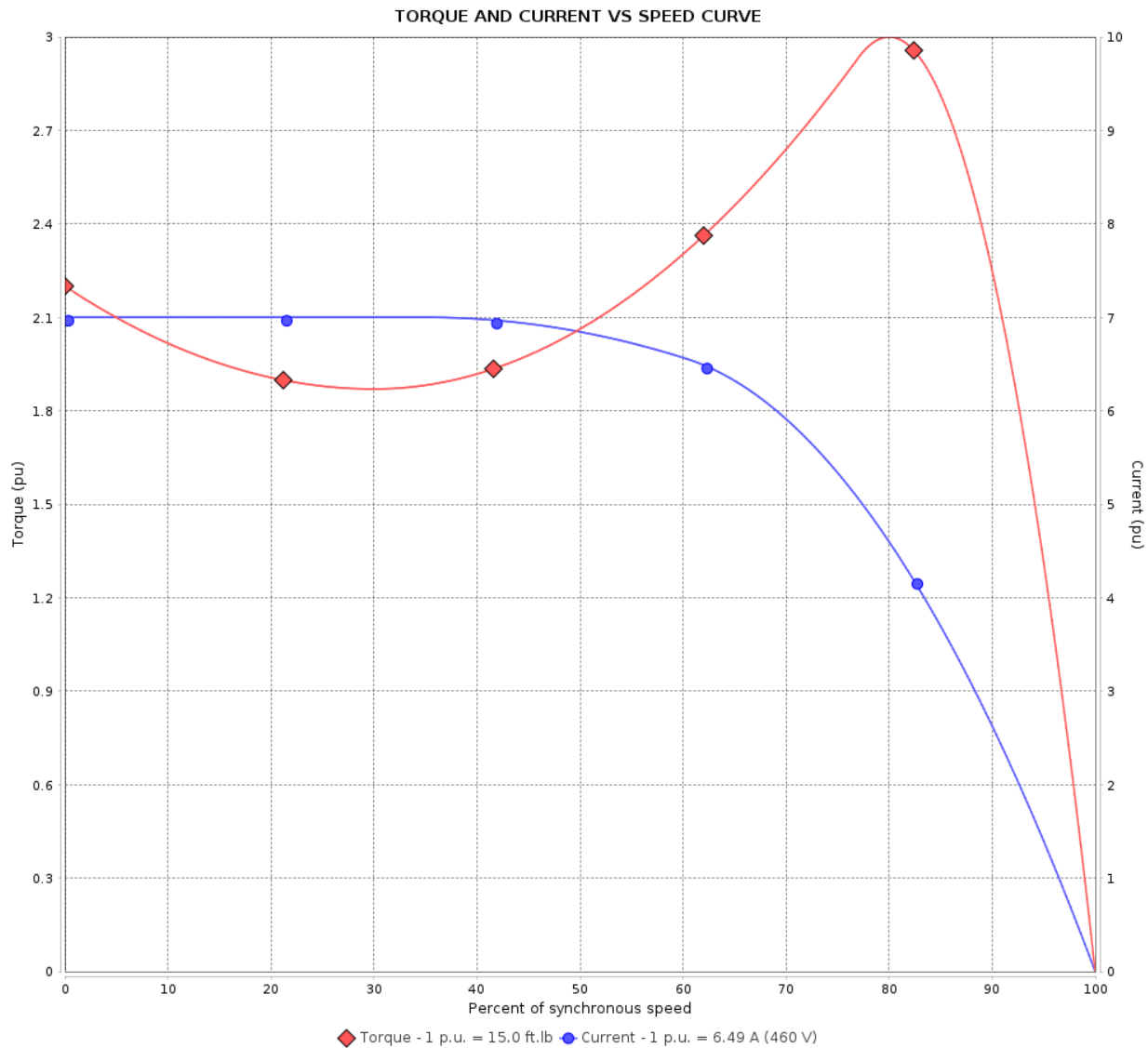


Customer :

Product line : Rolled Steel NEMA Premium Efficiency
Three-Phase

Product code : 12630776

Catalog # : 00518ET3E184T-S



Performance : 230/460 V 60 Hz 4P

Rated current	: 13.0/6.49 A	Moment of inertia (J)	: 0.3080 sq.ft.lb
LRC	: 7.0	Duty cycle	: Cont.(S1)
Rated torque	: 15.0 ft.lb	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1750 rpm	Design	: B

Locked rotor time : 28s (cold) 16s (hot)

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TORQUE AND CURRENT VS SPEED CURVE



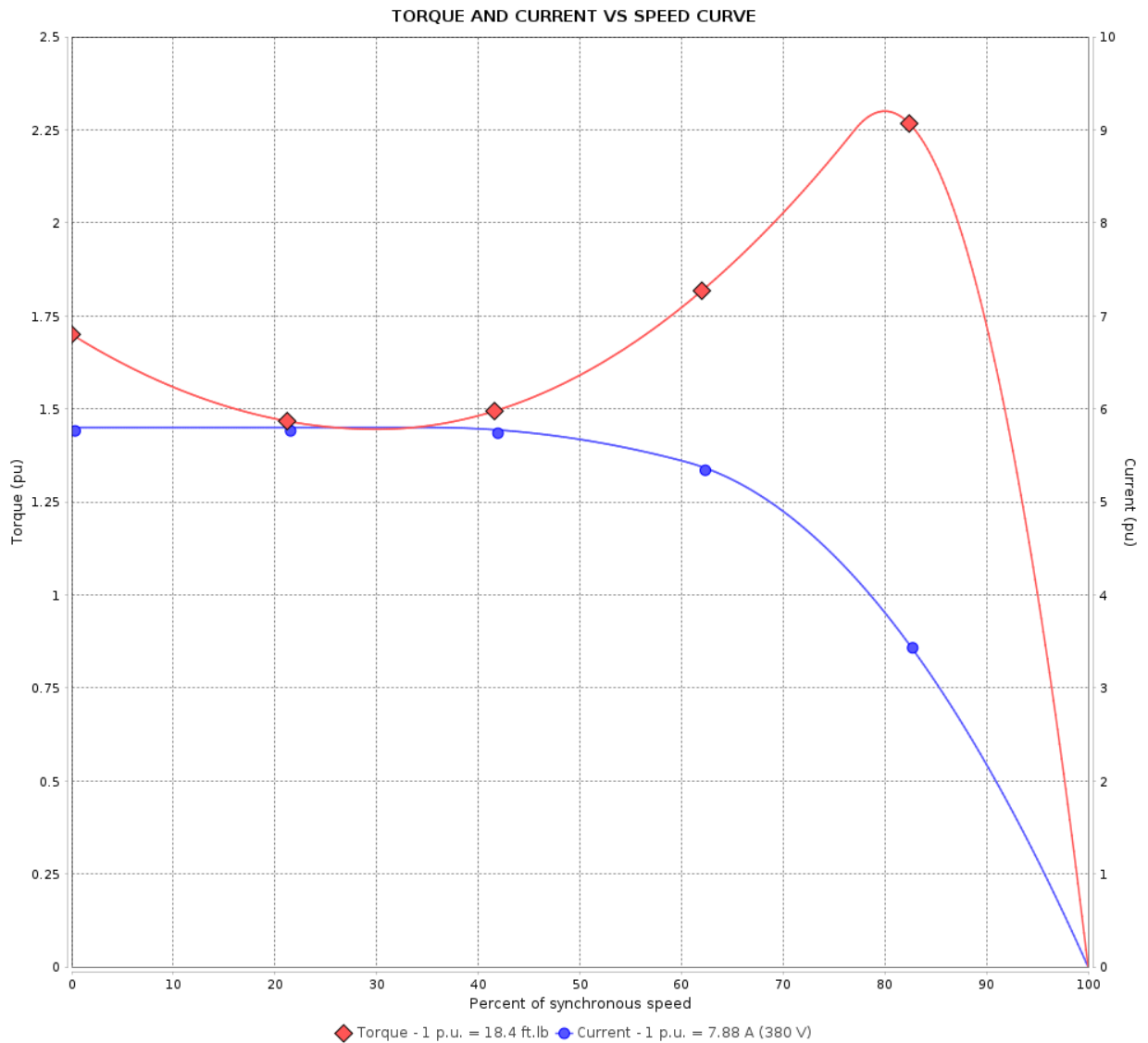
Three Phase Induction Motor - Squirrel Cage

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Performance : 190-220/380 V 50 Hz 4P

Rated current	: 15.8-13.6/7.88 A	Moment of inertia (J)	: 0.3080 sq.ft.lb
LRC	: 5.8	Duty cycle	: Cont.(S1)
Rated torque	: 18.4 ft.lb	Insulation class	: F
Locked rotor torque	: 170 %	Service factor	: 1.00
Breakdown torque	: 229 %	Temperature rise	: 105 K
Rated speed	: 1425 rpm	Design	: B

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

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TORQUE AND CURRENT VS SPEED CURVE

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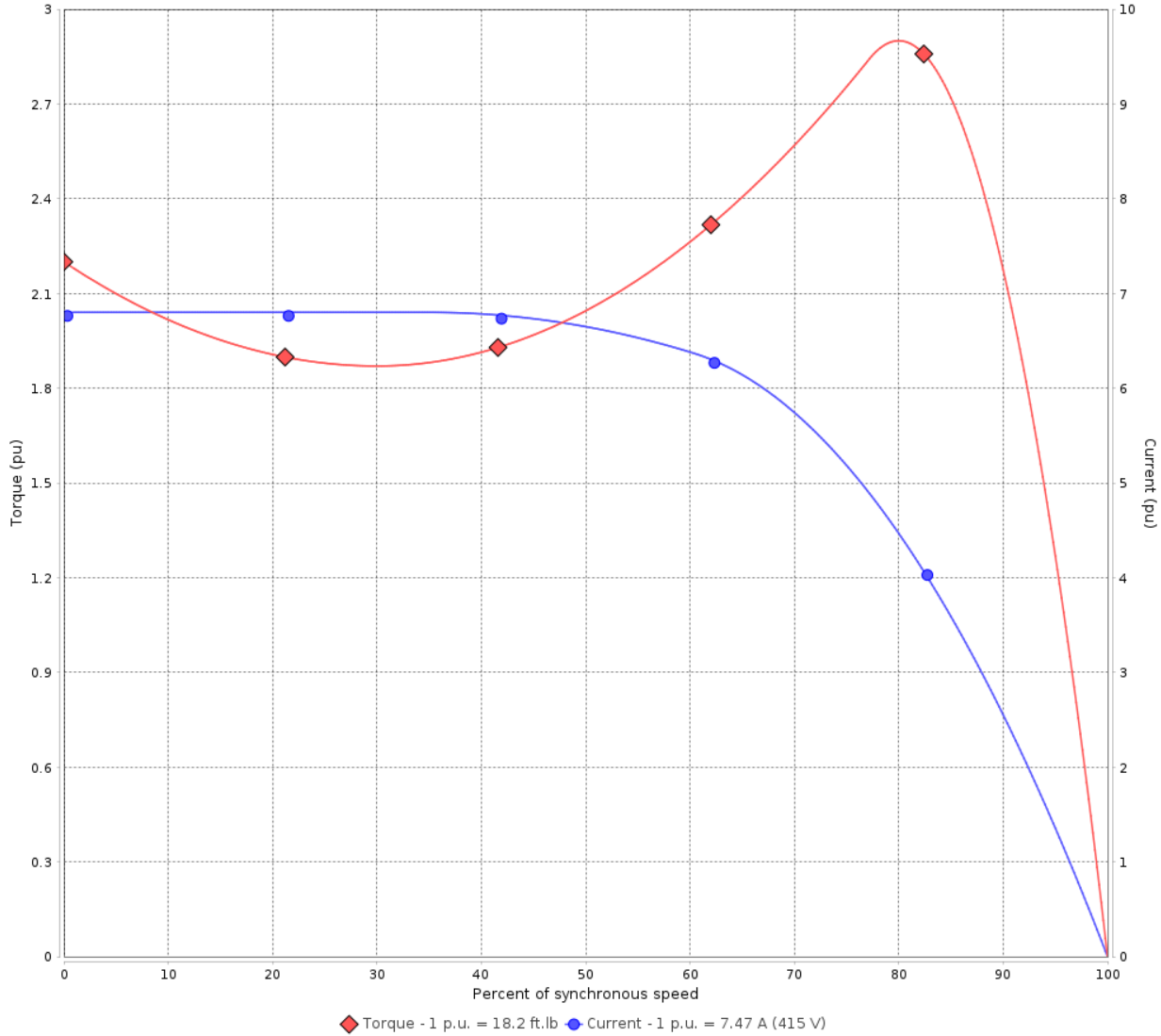
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TORQUE AND CURRENT VS SPEED CURVE



Performance : 415 V 50 Hz 4P

Rated current	: 7.47 A	Moment of inertia (J)	: 0.3080 sq.ft.lb
LRC	: 6.8	Duty cycle	: Cont.(S1)
Rated torque	: 18.2 ft.lb	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.00
Breakdown torque	: 290 %	Temperature rise	: 105 K
Rated speed	: 1440 rpm	Design	: B

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

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LOAD PERFORMANCE CURVE

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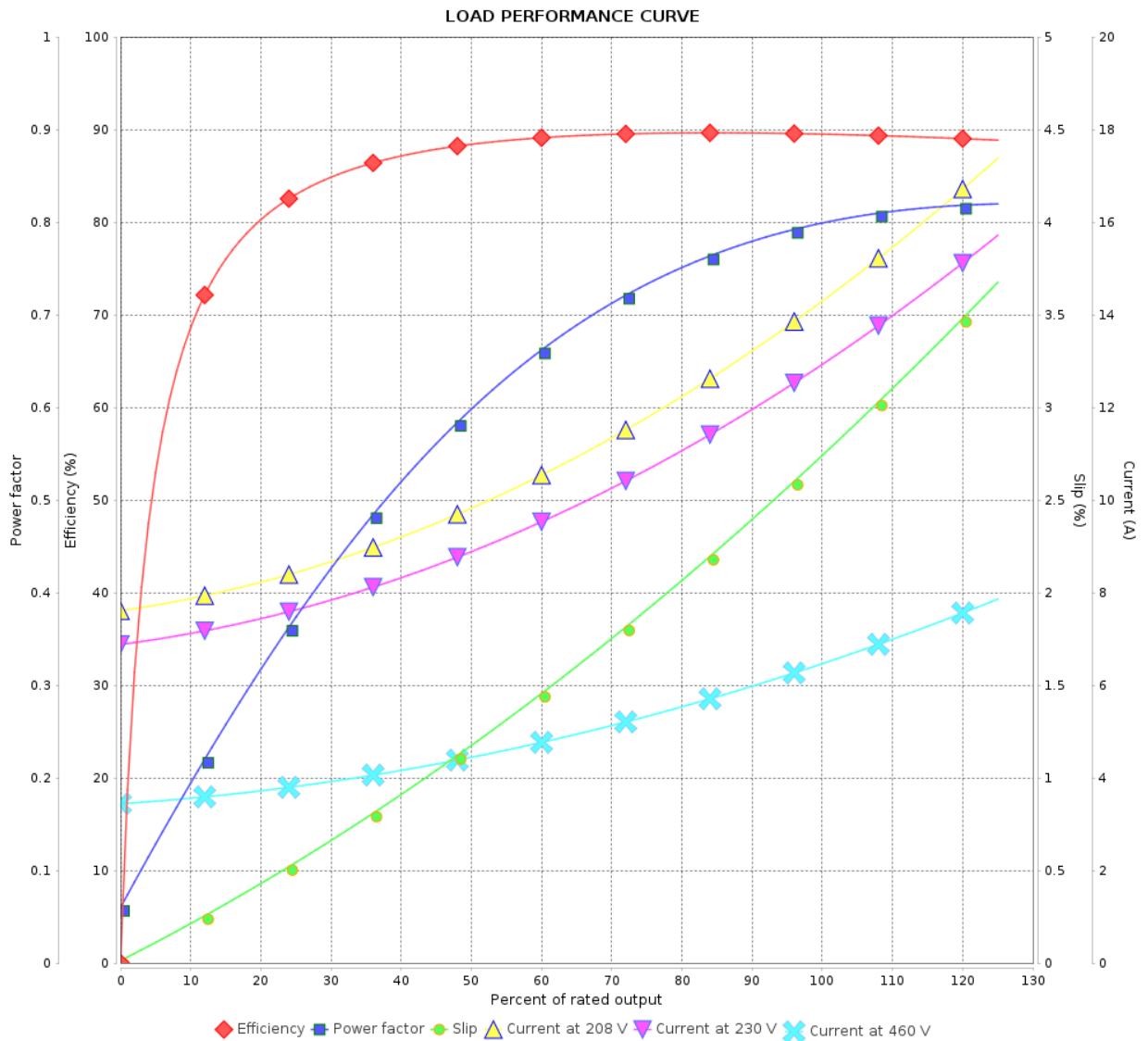


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 Rated torque : 15.0 ft.lb
 Locked rotor torque : 220 %
 Breakdown torque : 300 %
 Rated speed : 1750 rpm

Moment of inertia (J) : 0.3080 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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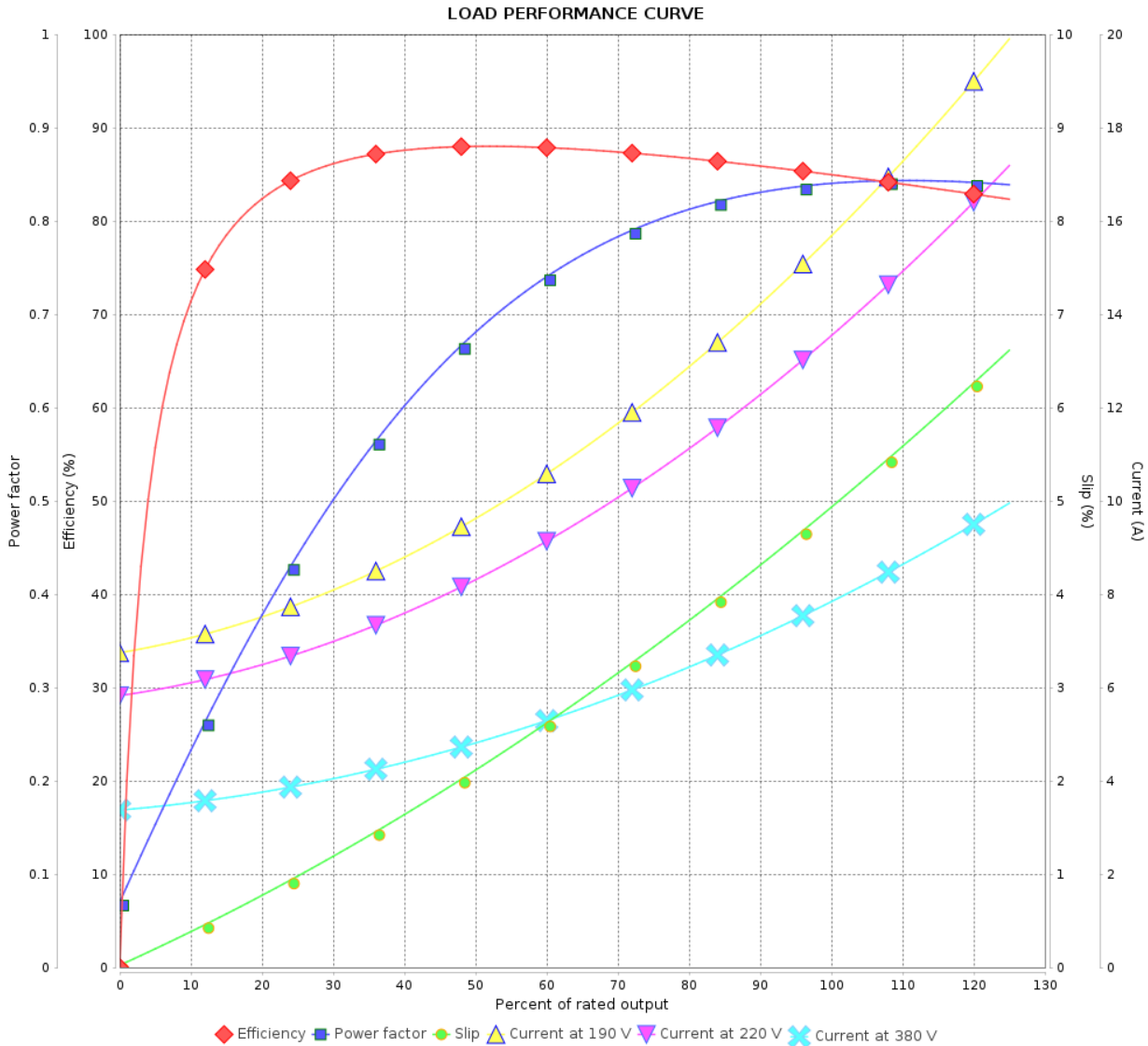


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Performance : 190-220/380 V 50 Hz 4P

Rated current : 15.8-13.6/7.88 A
 LRC : 5.8
 Rated torque : 18.4 ft.lb
 Locked rotor torque : 170 %
 Breakdown torque : 229 %
 Rated speed : 1425 rpm

Moment of inertia (J) : 0.3080 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
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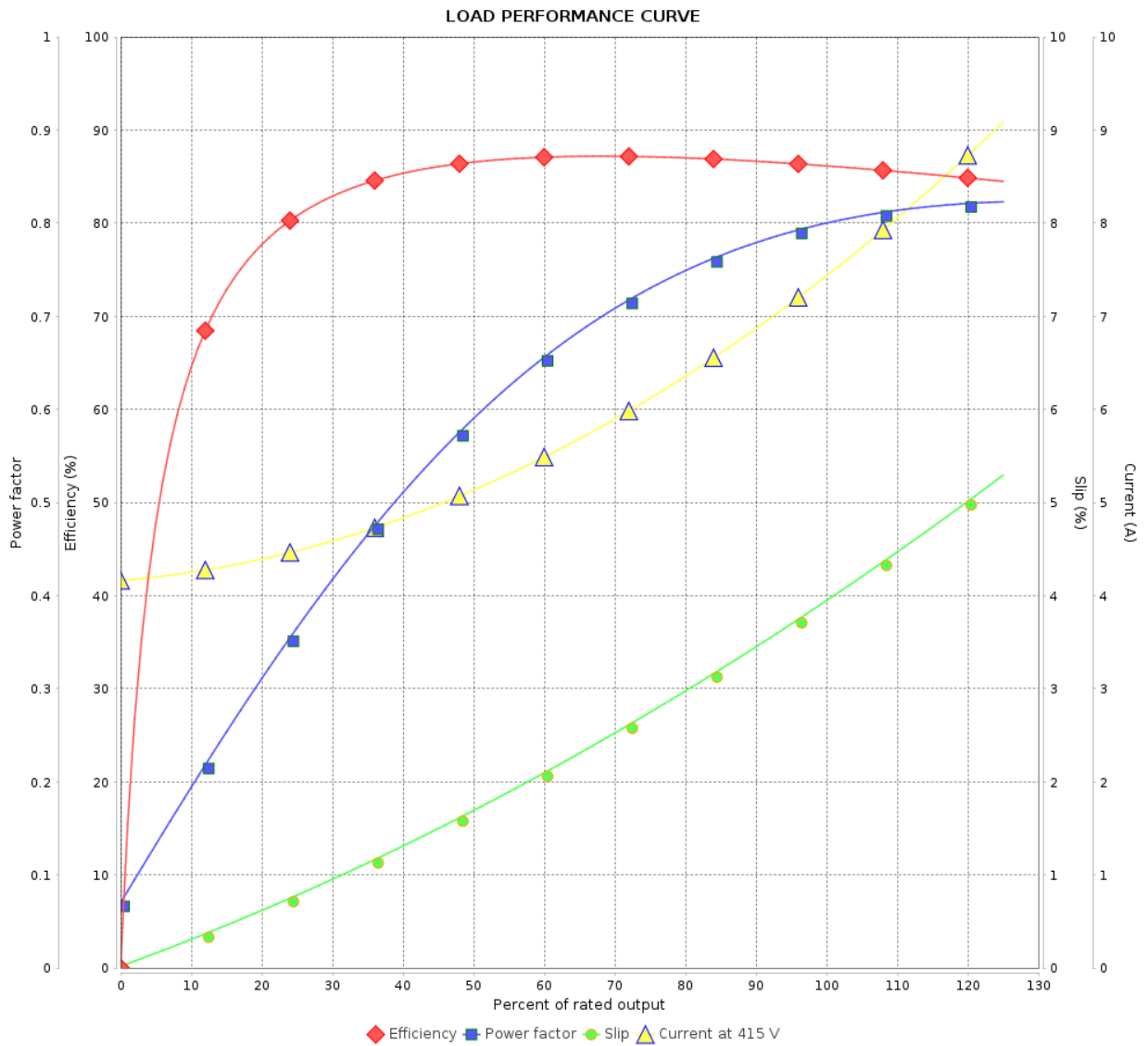


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Performance : 415 V 50 Hz 4P

Rated current : 7.47 A
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 Rated torque : 18.2 ft.lb
 Locked rotor torque : 220 %
 Breakdown torque : 290 %
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THERMAL LIMIT CURVE



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Heating constant

Cooling constant

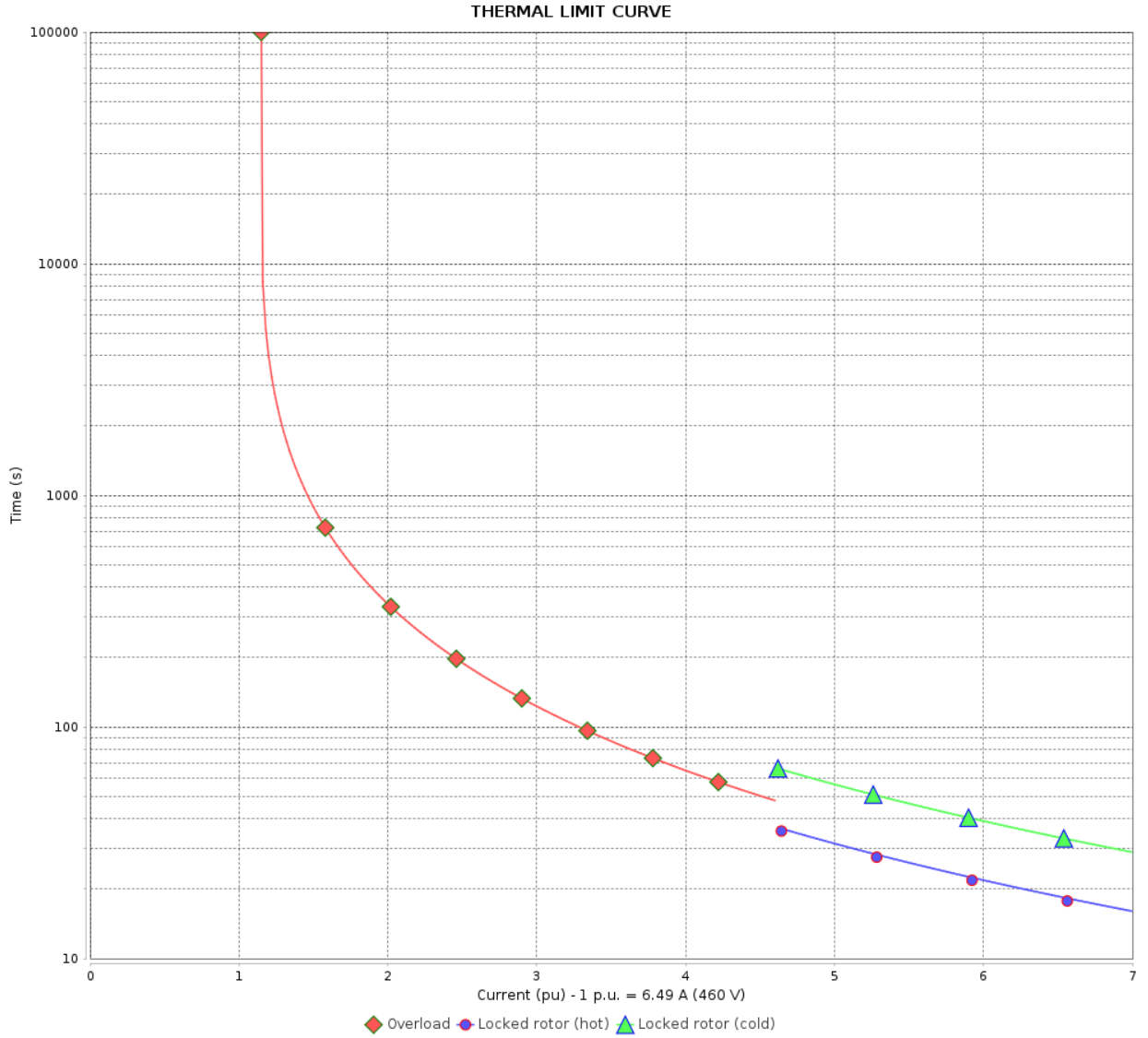
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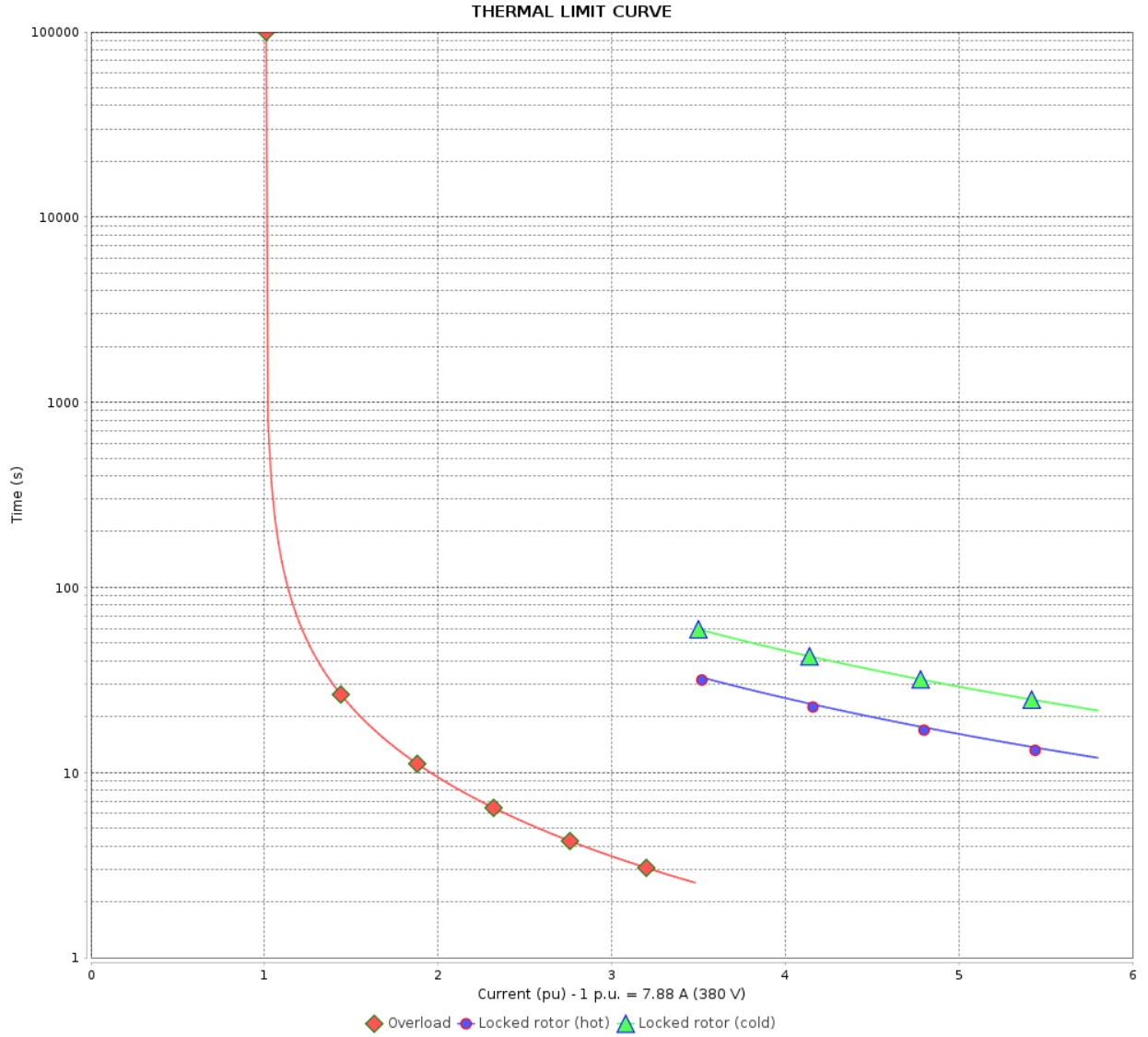
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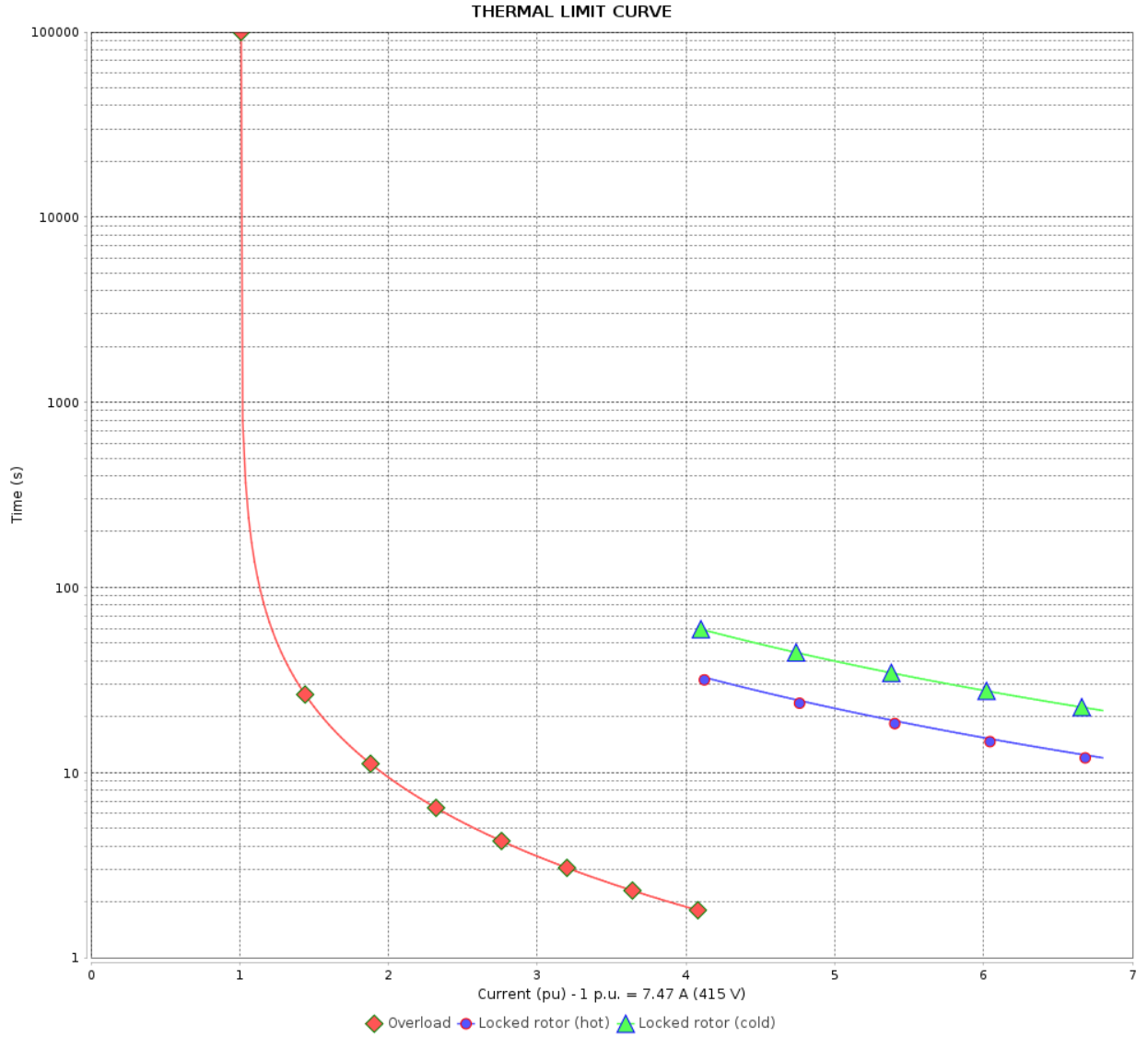
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VFD OPERATION CURVE

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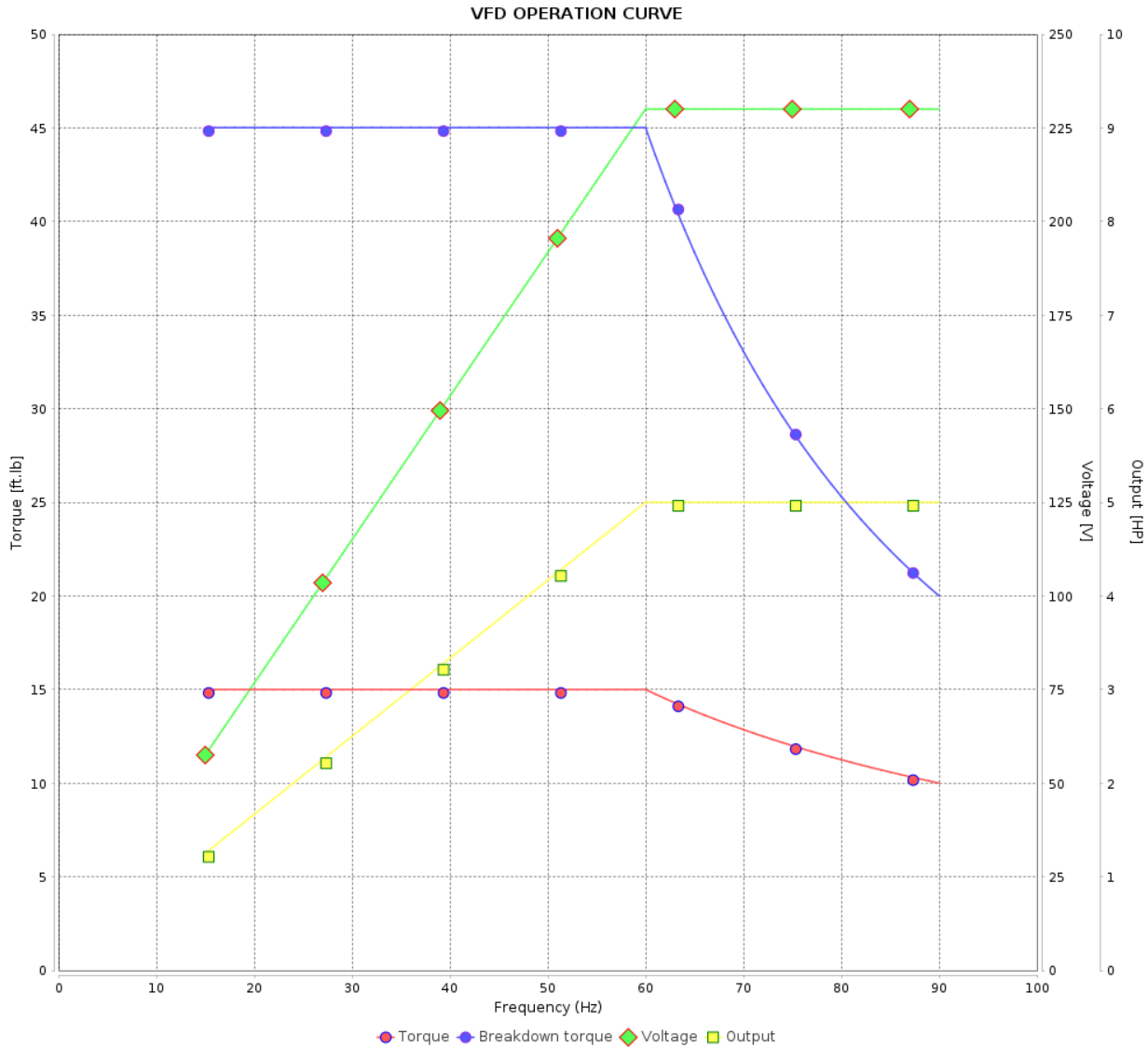


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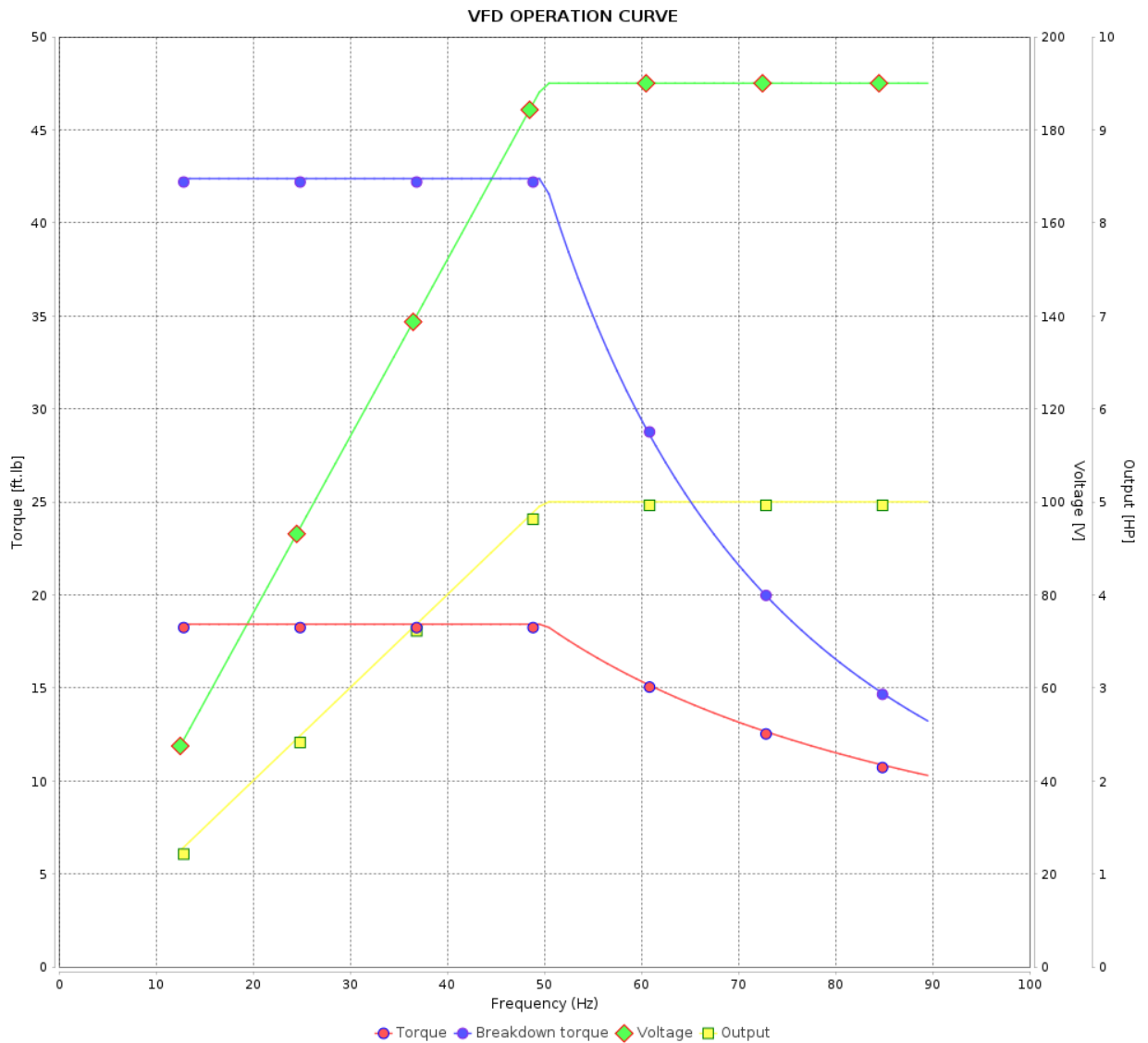


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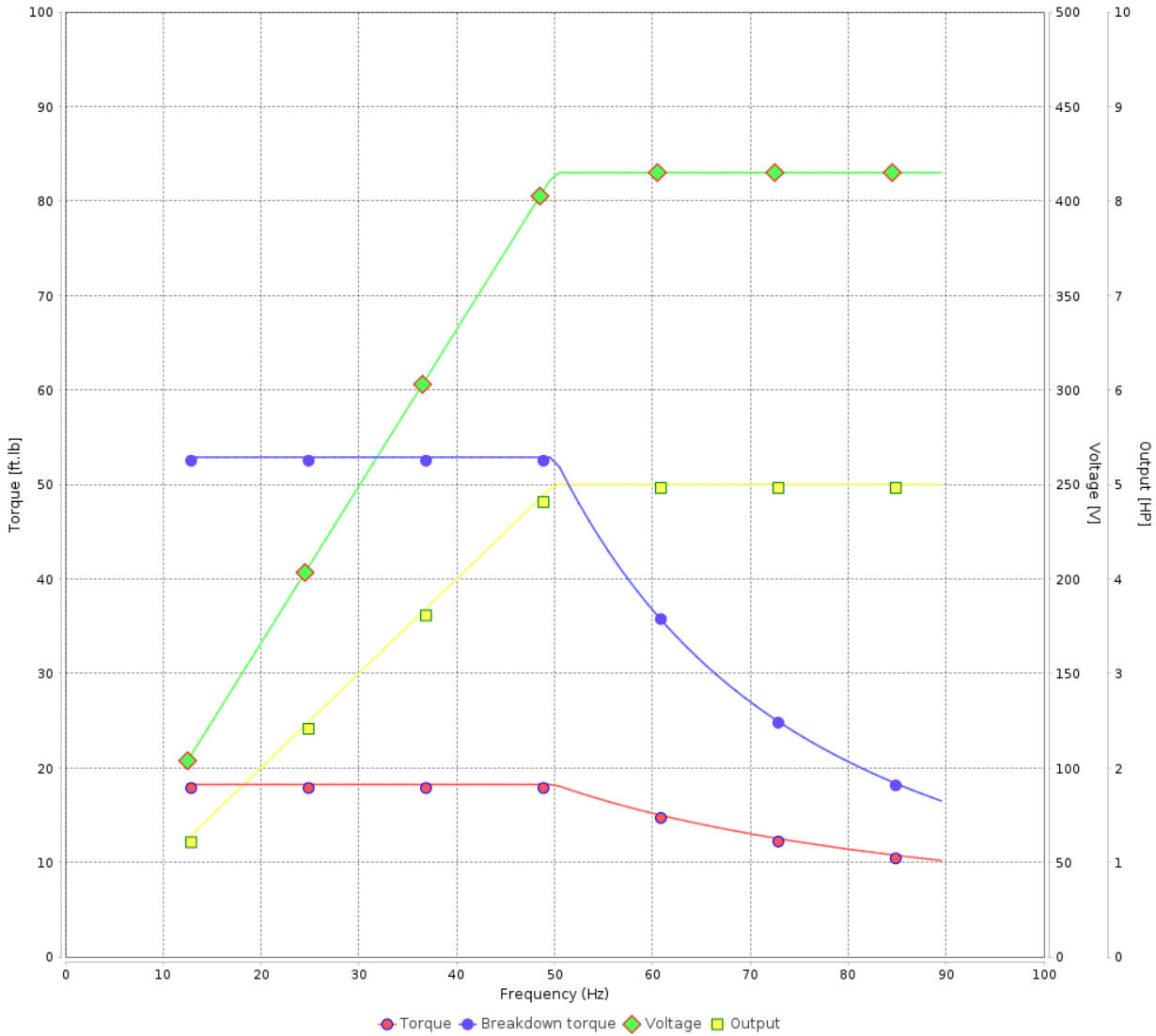
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NEMA
Premium



MADE IN MEXICO

MAT: 12630776 CC029A
W01.TE0IC0X0N
MODEL 00518ET3E184T-S

For 60Hz: Class I, Zone 2, IIC
Class I, Div.2, Gr. A,B,C,D - T3
DIP 2 Inverter Duty (SF1.00)
CT 2:1/VT 1000:1

PH 3	Hz 60	HP 5.0
FR 182/4T		KW 3.7
DUTY CONT.		V 230/460
ALT 1000 m.a.s.l.		A 13.0/6.49
INS CL F AT 80K	IP55	SFA 14.9/7.46
AMB 40°C	DES B	SF 1.15
ENCL TEFC	CODE J	PF 0.80
		RPM 1750
		NEMA NOM. EFF 89.5%

ALTERNATE RATING: 5.0HP 50Hz 190-220/380-415V SF1.00
15.8-14.17.88-7.47A 1425RPM EFF 84.9% (IE1) IEC 60034-1

For safe area-inverter duty motor For 60Hz use on VPWM 1000:1 VT, 4:1 CT

DE 6206-ZZ ODE 6205-ZZ MOBIL POLYREX EM



T1-BLU T2-WHT
T3-ORG T4-YEL
T5-BLK T6-GRY
T7-PNK T8-RED
T9-RED BRK

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.

