

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :				
Product line	: NEMA Premium Efficiency Three-Phase	Product code :	12750583	
		Catalog # :	00212ET3E184T-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	: 81.8 lb	
Protection degree	: IP55	Moment of inertia (J)	: 0.3424 sq.ft.lb	
Design	: B			
Output [HP]	2	2	2	
Poles	6	6	6	
Frequency [Hz]	60	50	50	
Rated voltage [V]	230/460	190/380	220/415	
Rated current [A]	6.00/3.00	7.00/3.50	6.49/3.44	
L. R. Amperes [A]	45.0/22.5	42.7/21.3	43.5/23.0	
LRC [A]	7.5x(Code K)	6.1x(Code H)	6.7x(Code J)	
No load current [A]	3.74/1.87	3.69/1.85	3.77/2.00	
Rated speed [RPM]	1170	955	960	
Slip [%]	2.50	4.50	4.00	
Rated torque [ft.lb]	8.98	11.0	10.9	
Locked rotor torque [%]	260	210	250	
Breakdown torque [%]	370	280	320	
Service factor	1.15	1.15	1.15	
Temperature rise	80 K	80 K	80 K	
Locked rotor time	79s (cold) 44s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)	
Noise level ²	52.0 dB(A)	50.0 dB(A)	50.0 dB(A)	
Efficiency (%)	25%	82.0	85.5	84.3
	50%	84.0	85.3	84.5
	75%	86.5	86.4	86.3
	100%	88.5	85.7	86.1
Power Factor	25%	0.28	0.33	0.30
	50%	0.50	0.57	0.53
	75%	0.62	0.69	0.66
	100%	0.71	0.76	0.73
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	: 183 lb	
		Max. compression	: 264 lb	
Lubrication interval	: -			
Lubricant amount	: -			
Lubricant type	: Mobil Polyrex EM			
Notes USABLE @208V 6.63A SF 1.00 SFA 6.63A				
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



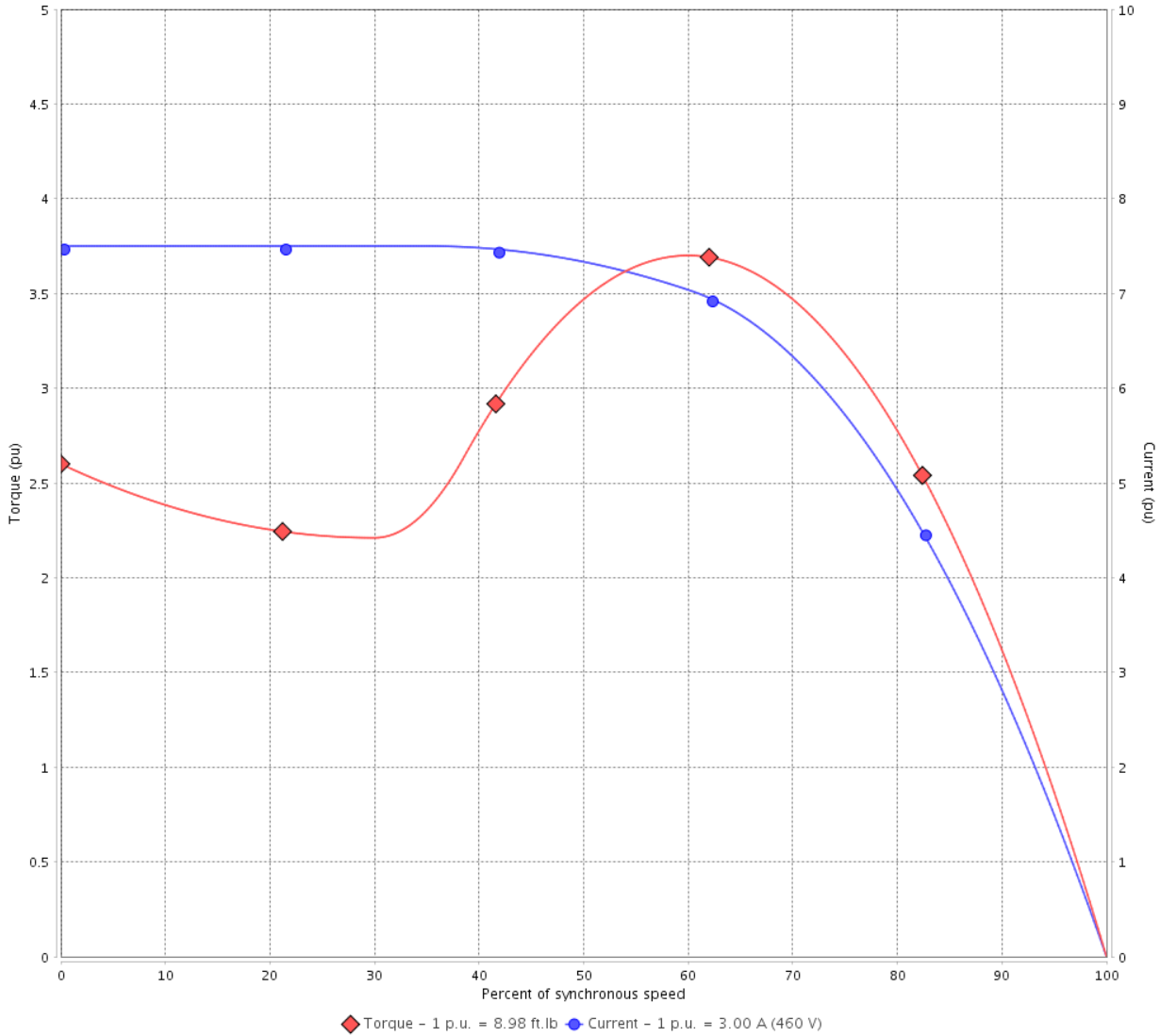
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12750583

Catalog # : 00212ET3E184T-S

TORQUE AND CURRENT VS SPEED CURVE



Performance : 230/460 V 60 Hz 6P

Rated current	: 6.00/3.00 A	Moment of inertia (J)	: 0.3424 sq.ft.lb
LRC	: 7.5	Duty cycle	: Cont.(S1)
Rated torque	: 8.98 ft.lb	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.15
Breakdown torque	: 370 %	Temperature rise	: 80 K
Rated speed	: 1170 rpm	Design	: B

Locked rotor time : 79s (cold) 44s (hot)

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TORQUE AND CURRENT VS SPEED CURVE



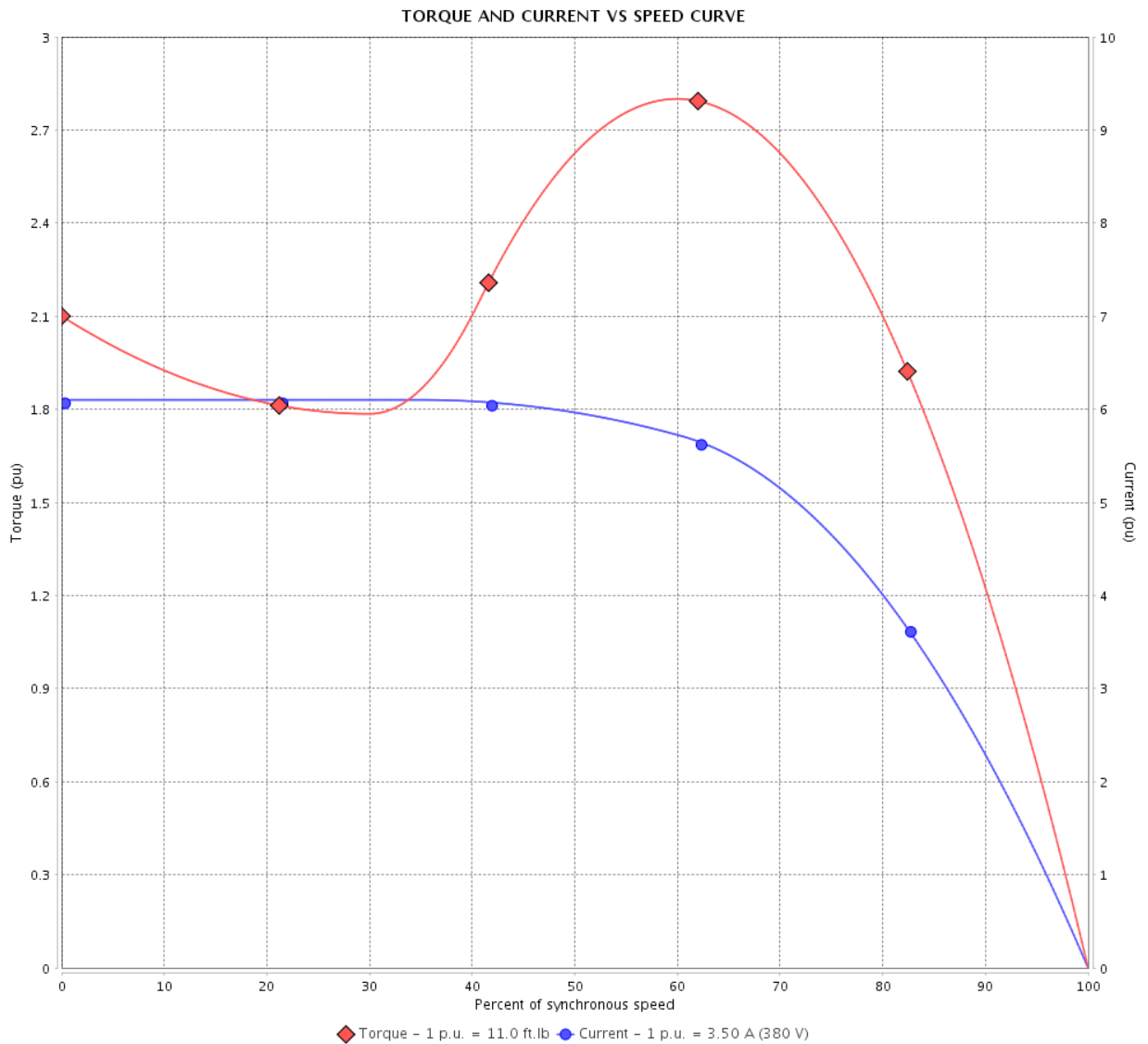
Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12750583

Catalog # : 00212ET3E184T-S



Performance : 190/380 V 50 Hz 6P

Rated current : 7.00/3.50 A
 LRC : 6.1
 Rated torque : 11.0 ft.lb
 Locked rotor torque : 210 %
 Breakdown torque : 280 %
 Rated speed : 955 rpm

Moment of inertia (J) : 0.3424 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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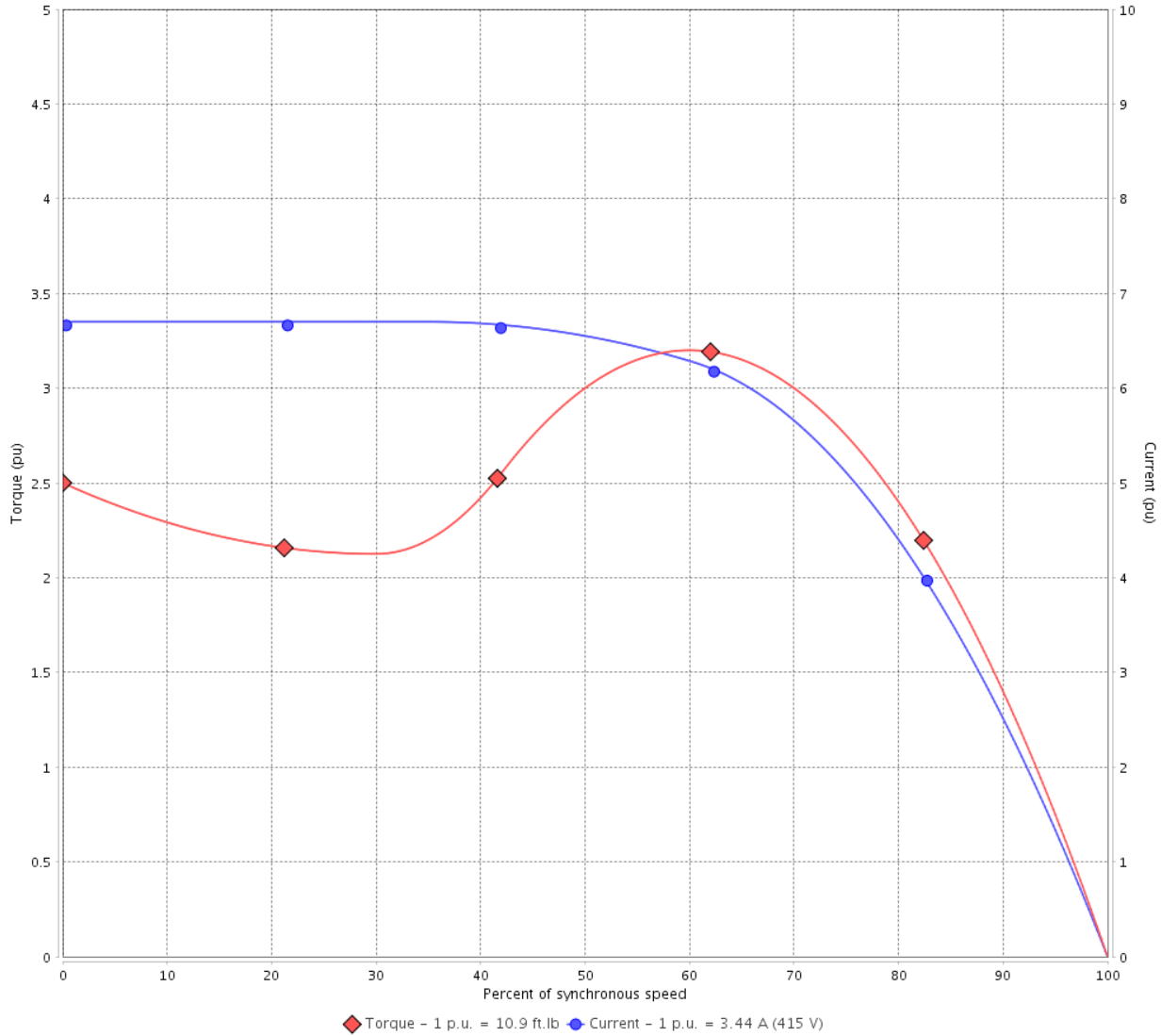
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TORQUE AND CURRENT VS SPEED CURVE



Performance : 220/415 V 50 Hz 6P

Rated current	: 6.49/3.44 A	Moment of inertia (J)	: 0.3424 sq.ft.lb
LRC	: 6.7	Duty cycle	: Cont.(S1)
Rated torque	: 10.9 ft.lb	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.15
Breakdown torque	: 320 %	Temperature rise	: 80 K
Rated speed	: 960 rpm	Design	: B

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

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LOAD PERFORMANCE CURVE

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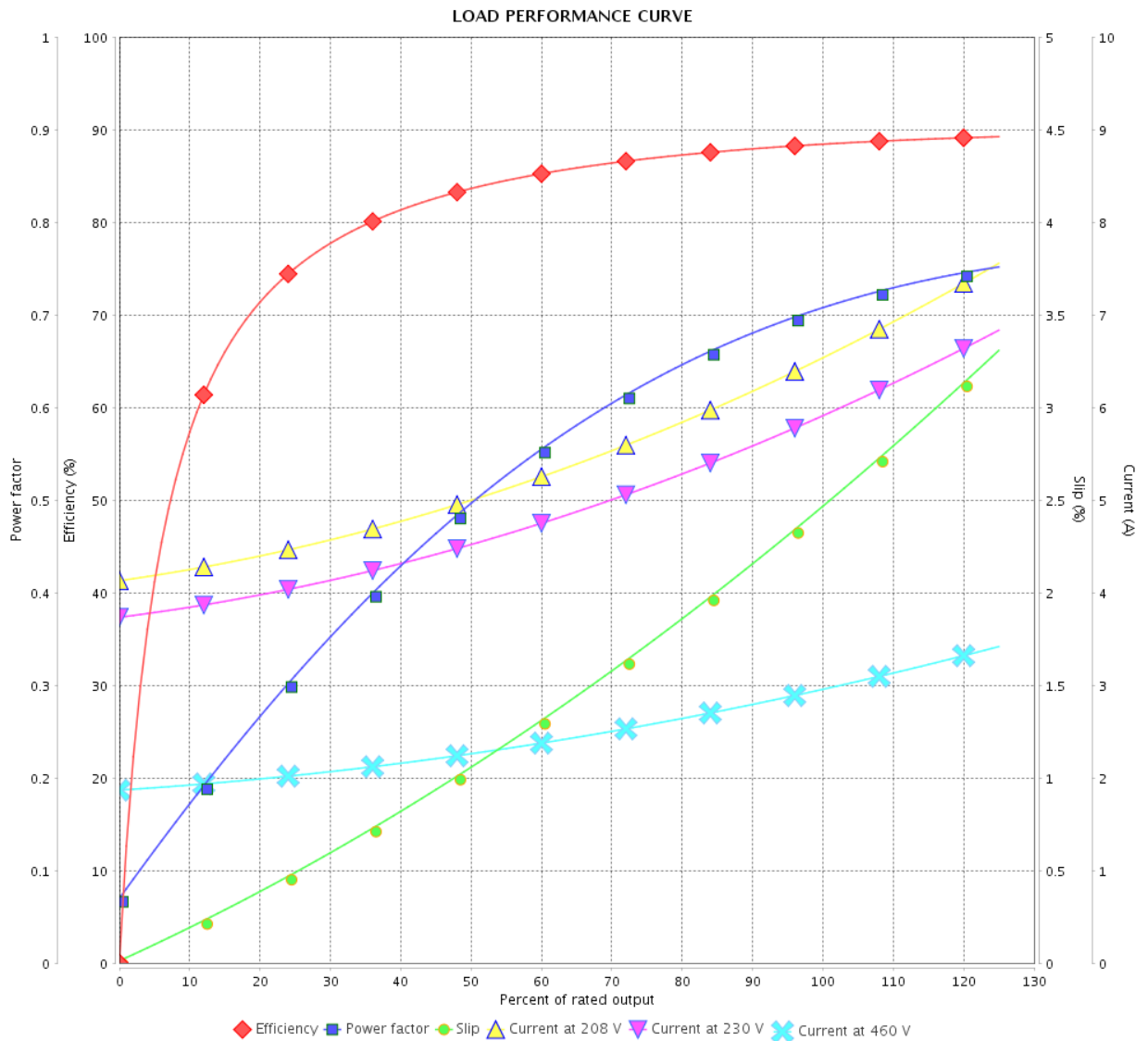


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 Breakdown torque : 370 %
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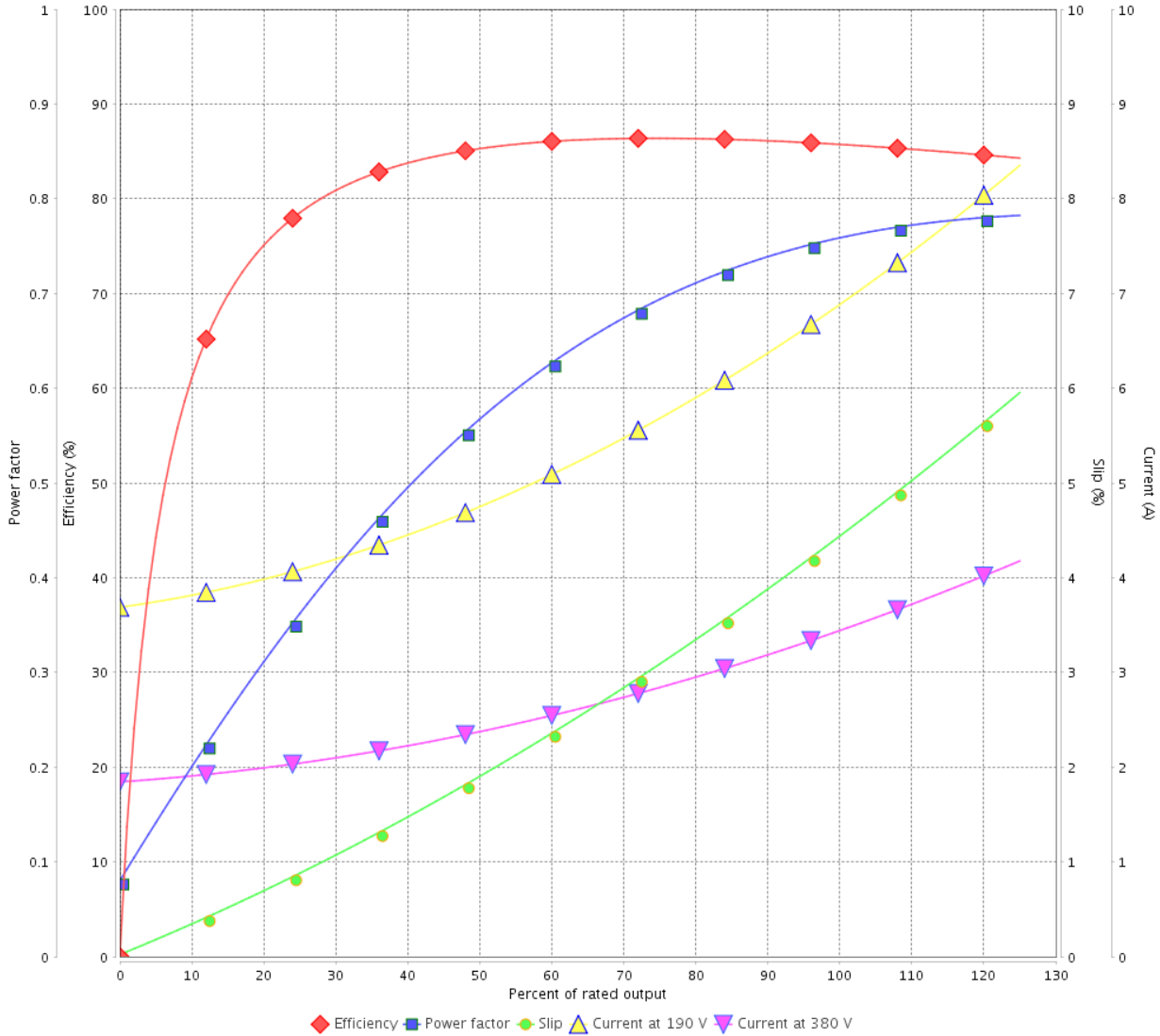
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 LRC : 6.1
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 Locked rotor torque : 210 %
 Breakdown torque : 280 %
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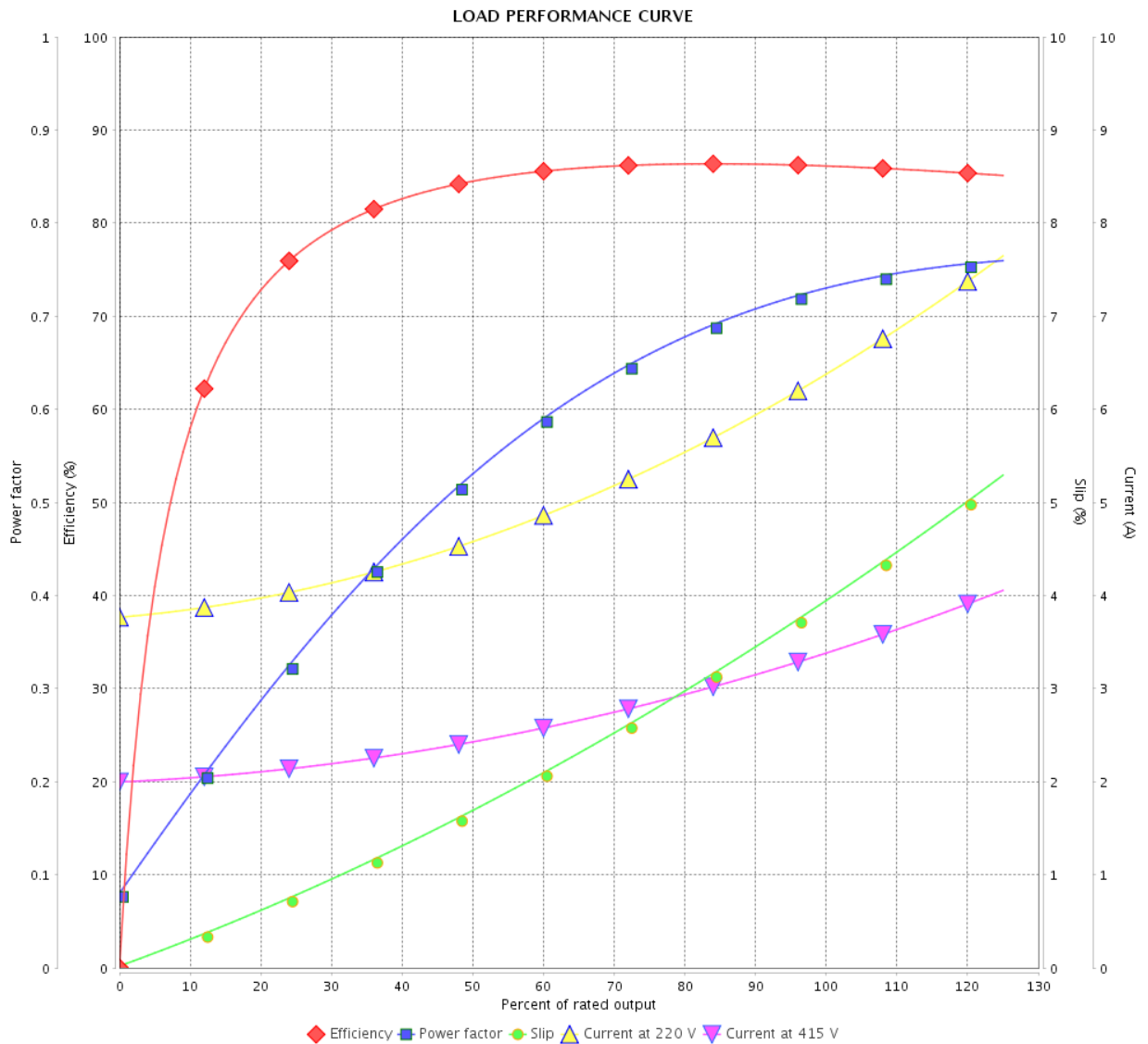


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THERMAL LIMIT CURVE

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Heating constant

Cooling constant

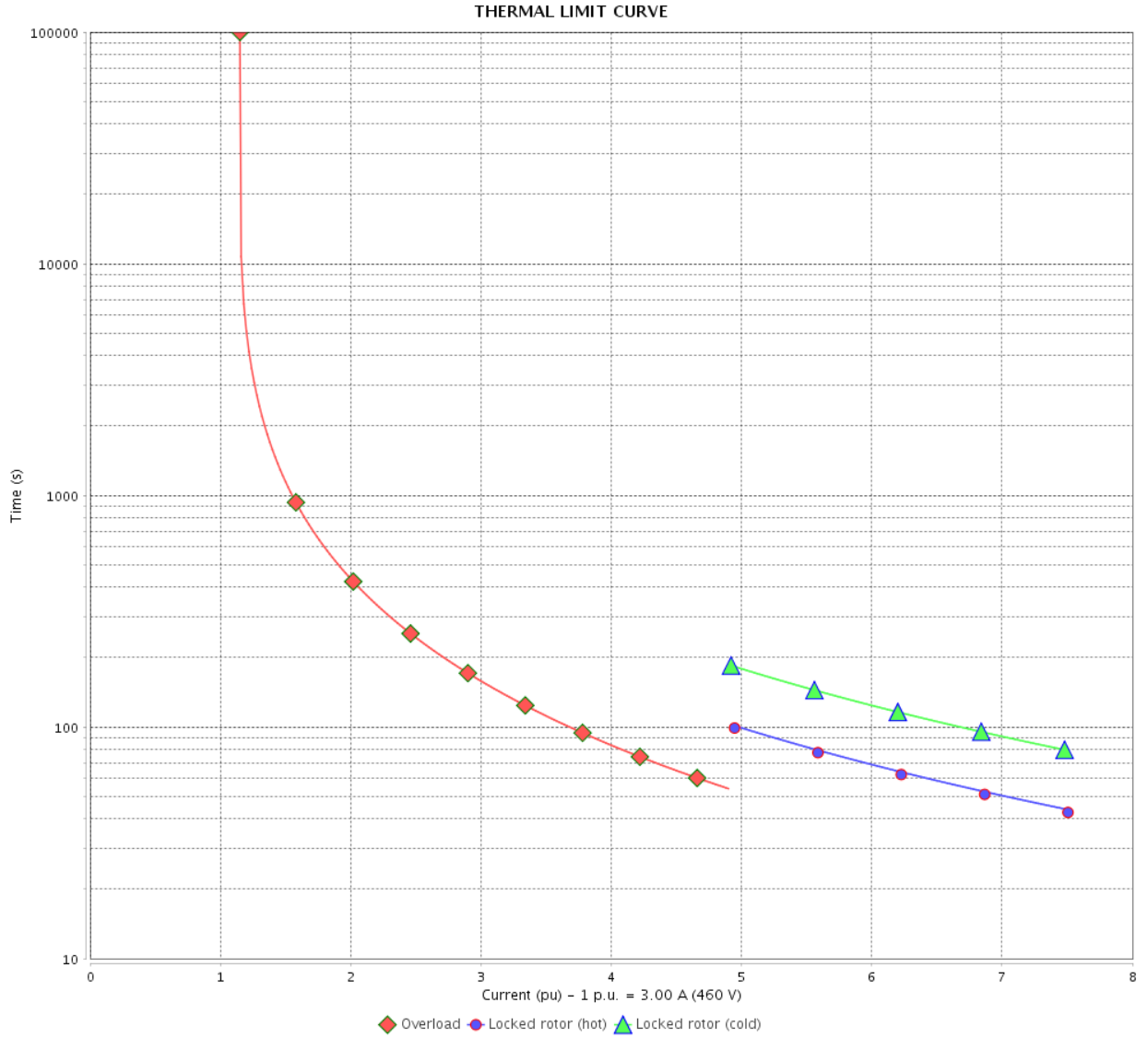
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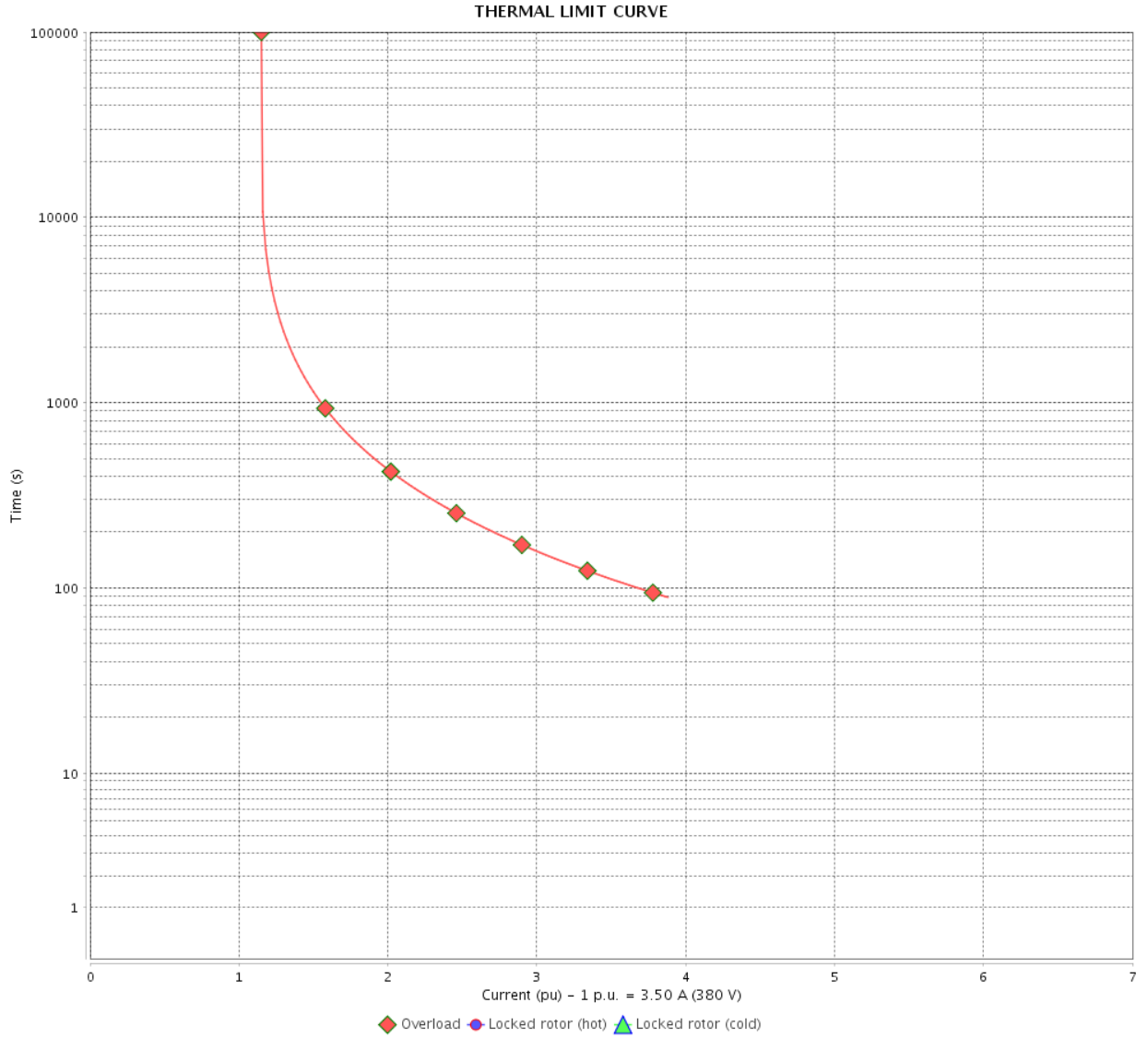
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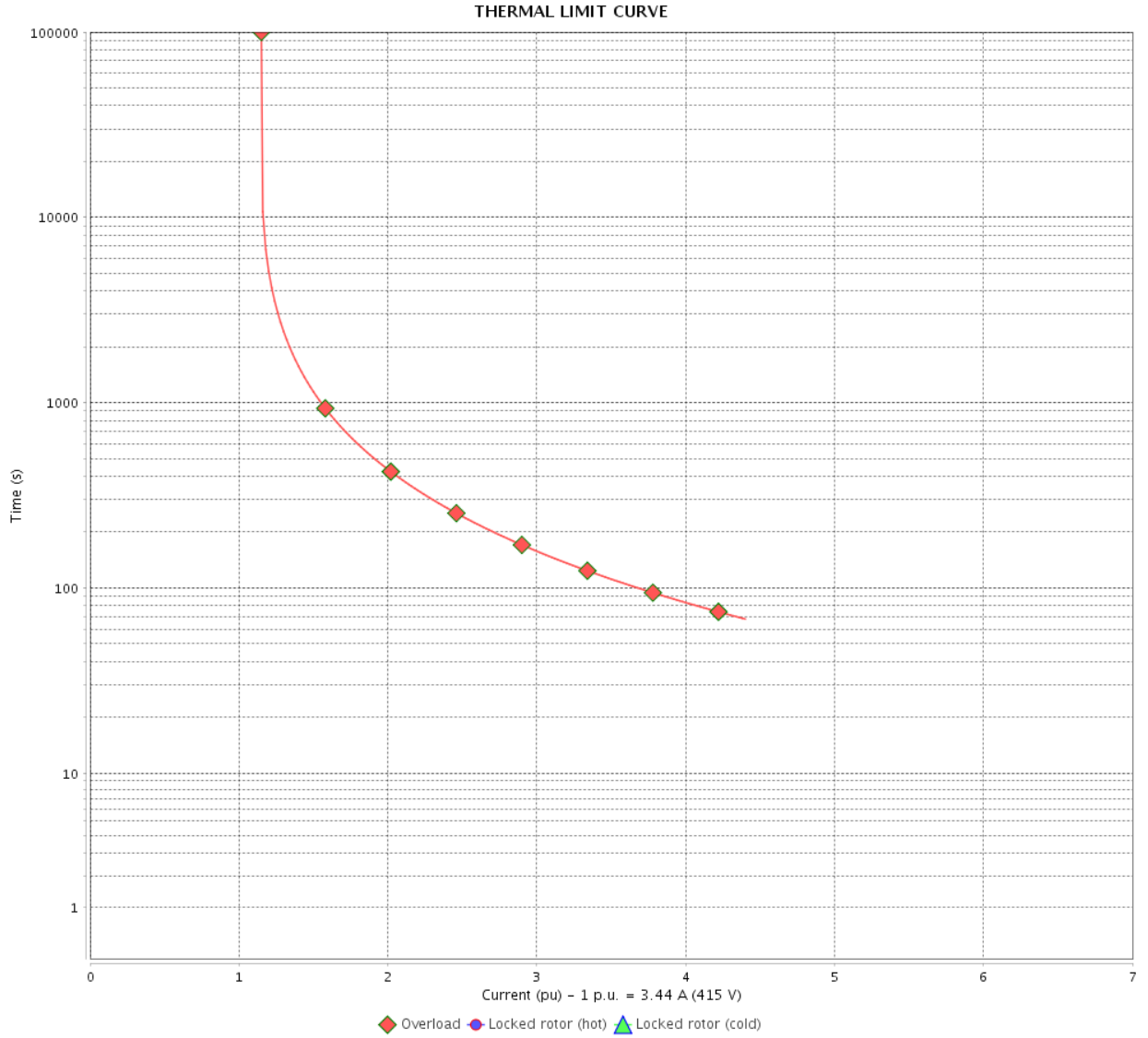
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



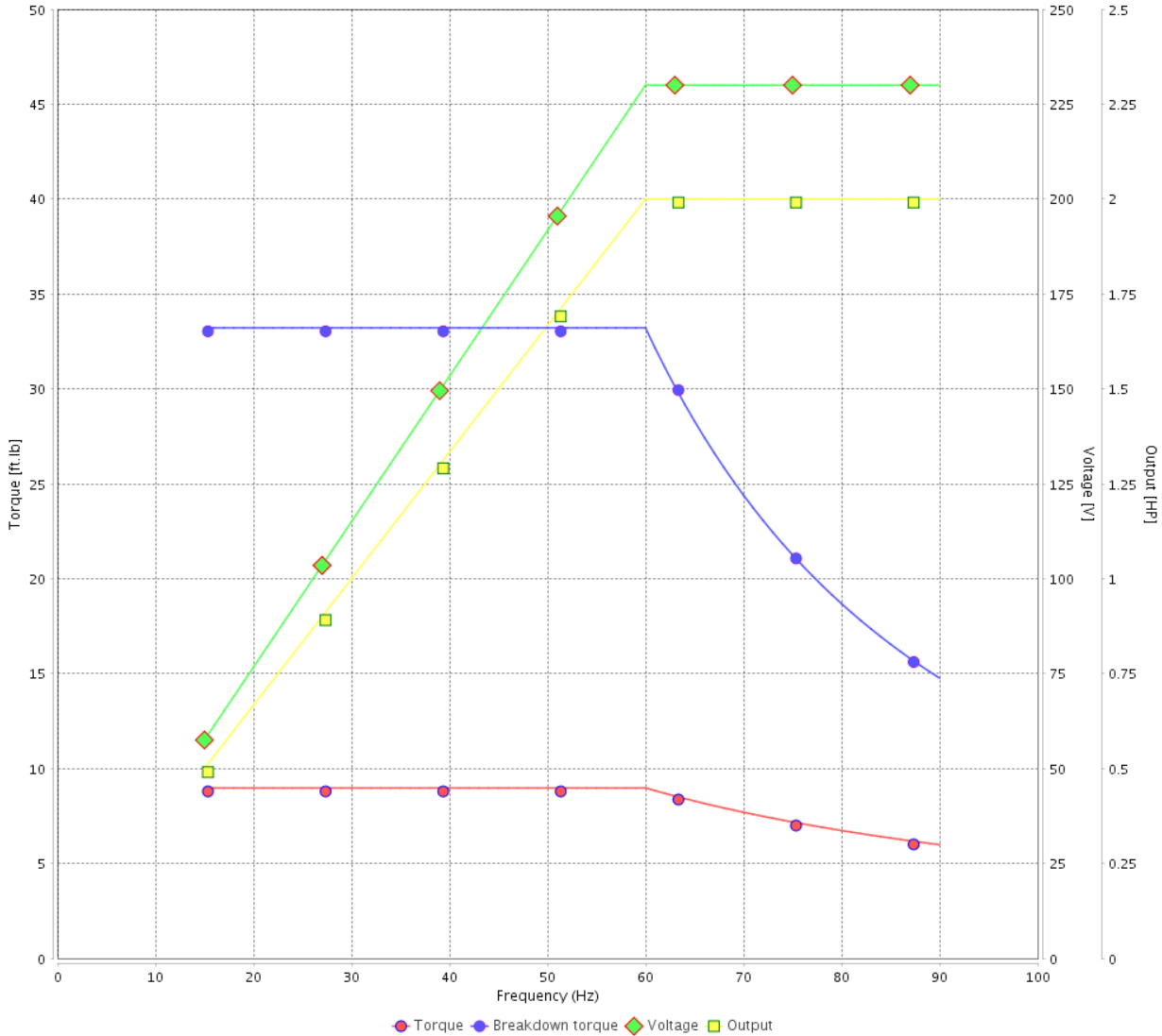
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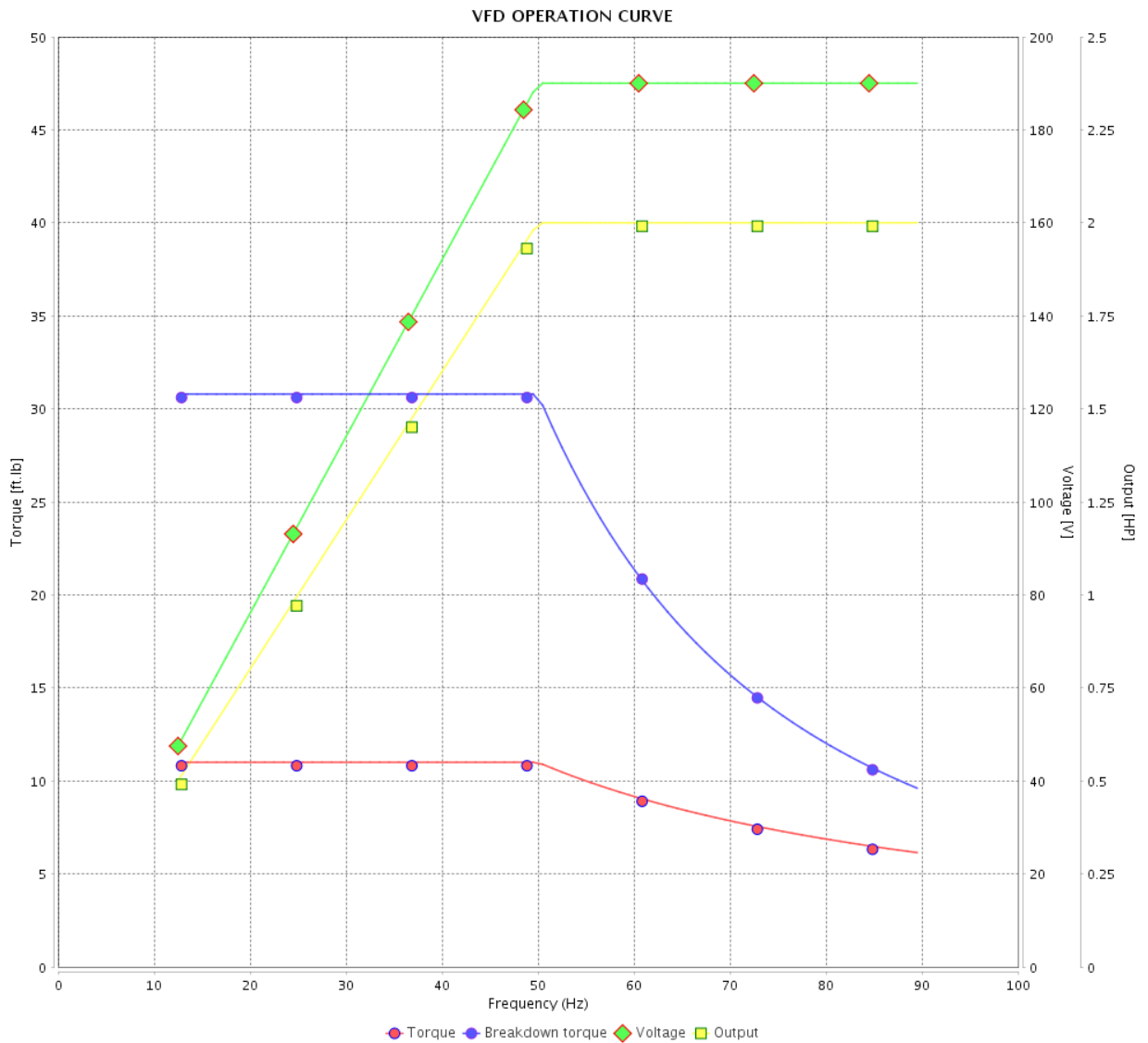


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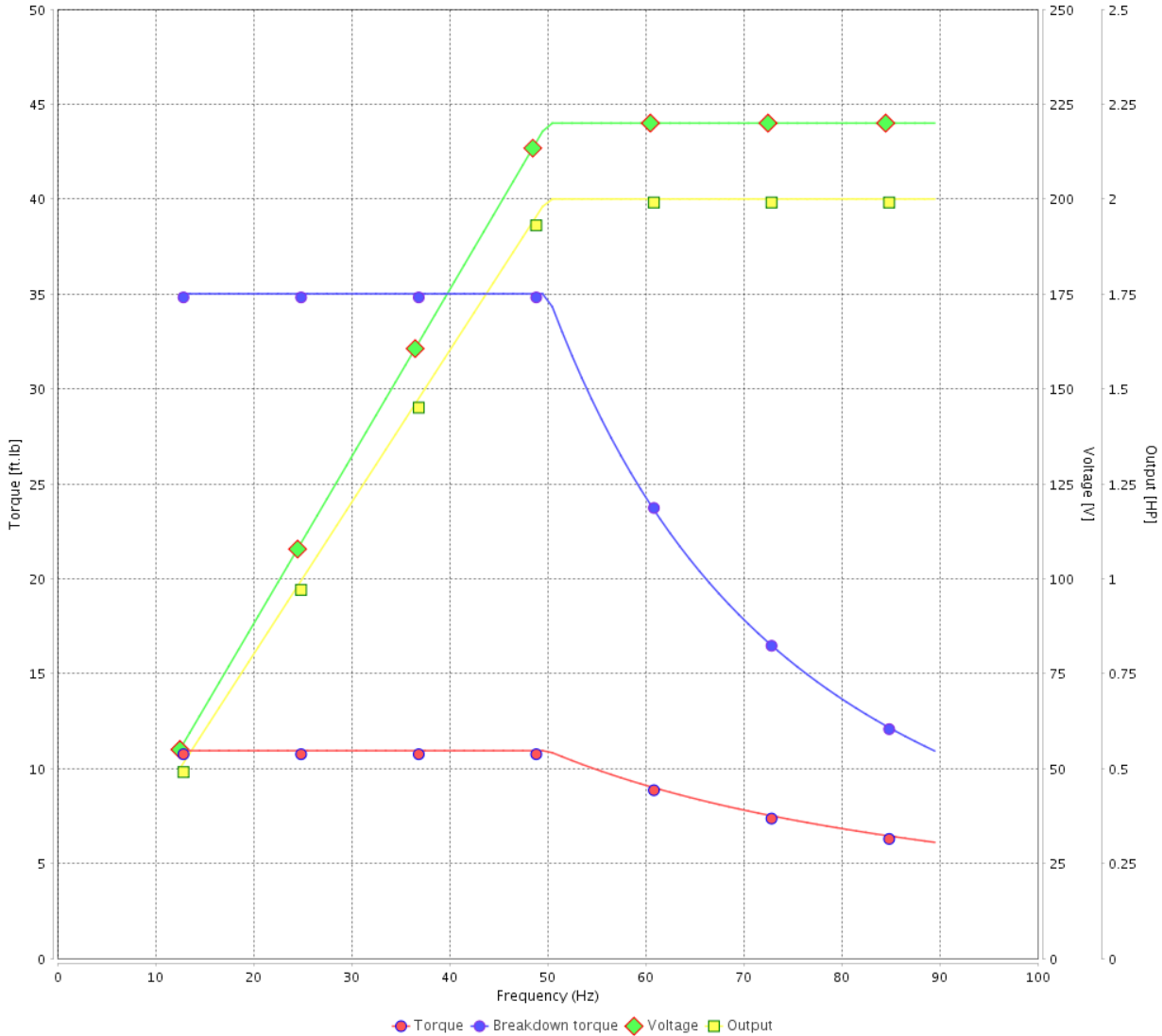
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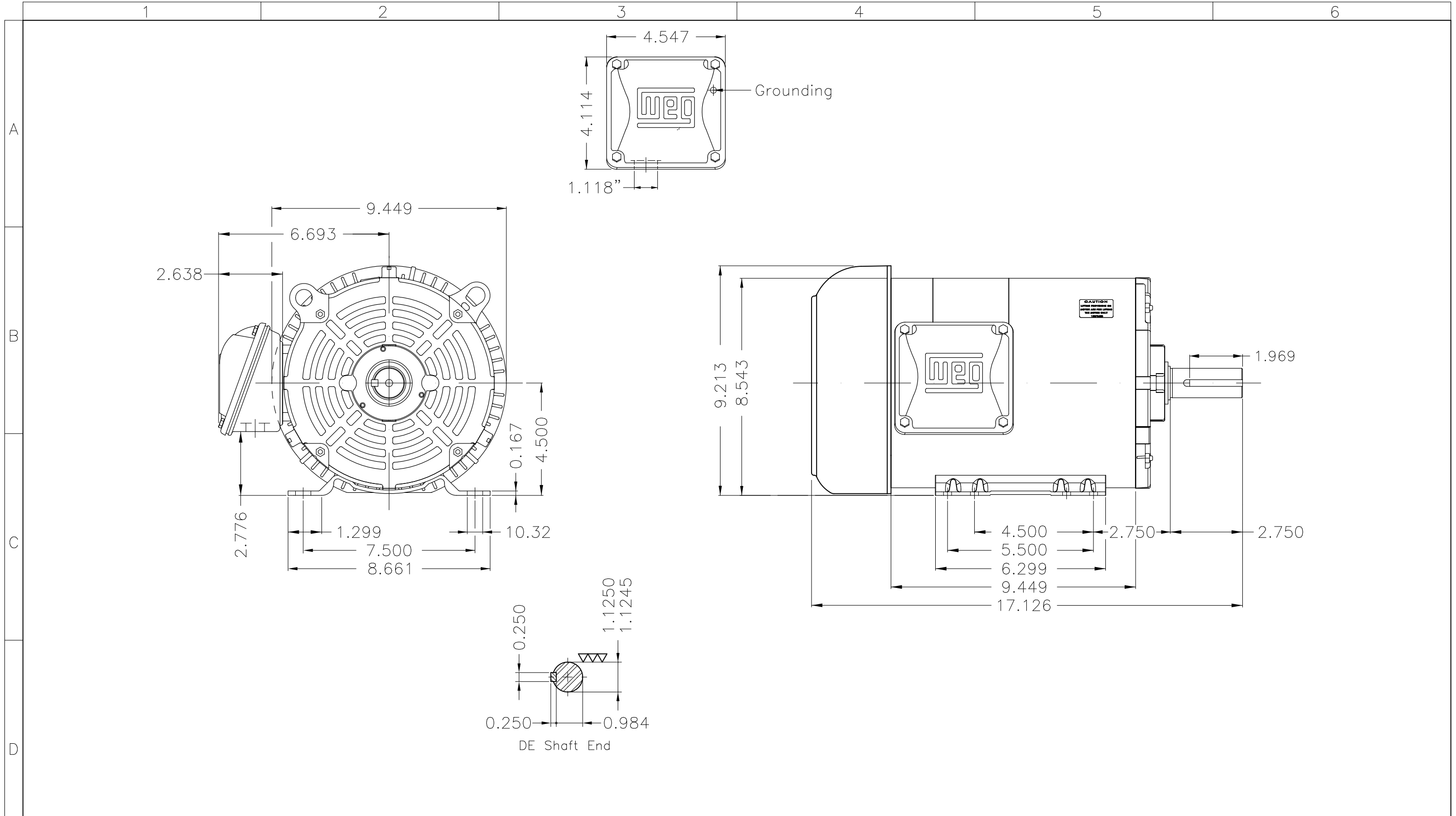



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Color Munsell N 1 matte black										
Painting plan 207N										
Mounting F-1/B3R(D)										
ECM	LOC	SUMMARY OF MODIFICATIONS				EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	PIRWBUSER	THREE PH. MOTOR ROLLED STEEL PREM. EFF.				PREVIEW	WDD	SHEET	1 / 1	
CHECKED		FRAME 182/4T IP55 TEFC								
RELEASED										
REL DT.	WMO	Jaragua do Sul	Product Engineering							

2 HP 06 Poles 60 Hz

A

Dimensions in inches XME A3



NEMA
Premium



MADE IN MEXICO

MAT: 12750583 CC029A
W01.TE0IC0X0N
MODEL 00212ET3E184T-S
21APR2022 S/N:

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

PH 3	Hz 60	HP 2.0
FR 182/4T		KW 1.5
DUTY CONT.		V 230/460
ALT 1000 m.a.s.l.		A 6.00/3.00
INS CL F AT 80K	IP55	SFA 6.90/3.45
AMB 40°C	DES B	SF 1.15
ENCL TEFC	CODE K	PF 0.71
USABLE @ 208V 6.83A		RPM 1170
SF1.00		NEMA NOM. EFF 88.5%

ALTERNATE RATING: 2.0HP 50Hz 190-220/380-415V SF1.15
7.00-6.43/3.50-3.41A 955RPM EFF 85.7% (IE3) 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-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.

