

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: NEMA Premium Efficiency Three-Phase	Product code :	12675351
		Catalog # :	00336ET3E182TC-S
Frame	: 182/4TC	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	: 77.5 lb
Protection degree	: IP55	Moment of inertia (J)	: 0.1564 sq.ft.lb
Design	: B		
Output [HP]	3	3	3
Poles	2	2	2
Frequency [Hz]	60	50	50
Rated voltage [V]	230/460	190/380	220/415
Rated current [A]	7.34/3.67	8.70/4.35	7.81/4.14
L. R. Amperes [A]	64.6/32.3	60.0/30.0	59.4/31.5
LRC [A]	8.8x(Code K)	6.9x(Code H)	7.6x(Code J)
No load current [A]	3.22/1.61	3.18/1.59	3.22/1.71
Rated speed [RPM]	3515	2885	2900
Slip [%]	2.36	3.83	3.33
Rated torque [ft.lb]	4.48	5.46	5.43
Locked rotor torque [%]	220	180	210
Breakdown torque [%]	300	280	310
Service factor	1.15	1.15	1.15
Temperature rise	80 K	80 K	80 K
Locked rotor time	39s (cold) 22s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level ²	68.0 dB(A)	65.0 dB(A)	65.0 dB(A)
Efficiency (%)	25%	83.6	86.0
	50%	84.0	85.7
	75%	86.5	86.8
	100%	86.5	86.1
Power Factor	25%	0.44	0.46
	50%	0.71	0.73
	75%	0.82	0.84
	100%	0.87	0.89
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	: 69 lb
		Max. compression	: 146 lb
Lubrication interval	: -		
Lubricant amount	: -		
Lubricant type	: Mobil Polyrex EM		
Notes USABLE @208V 8.12A SF 1.00 SFA 8.12A			
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



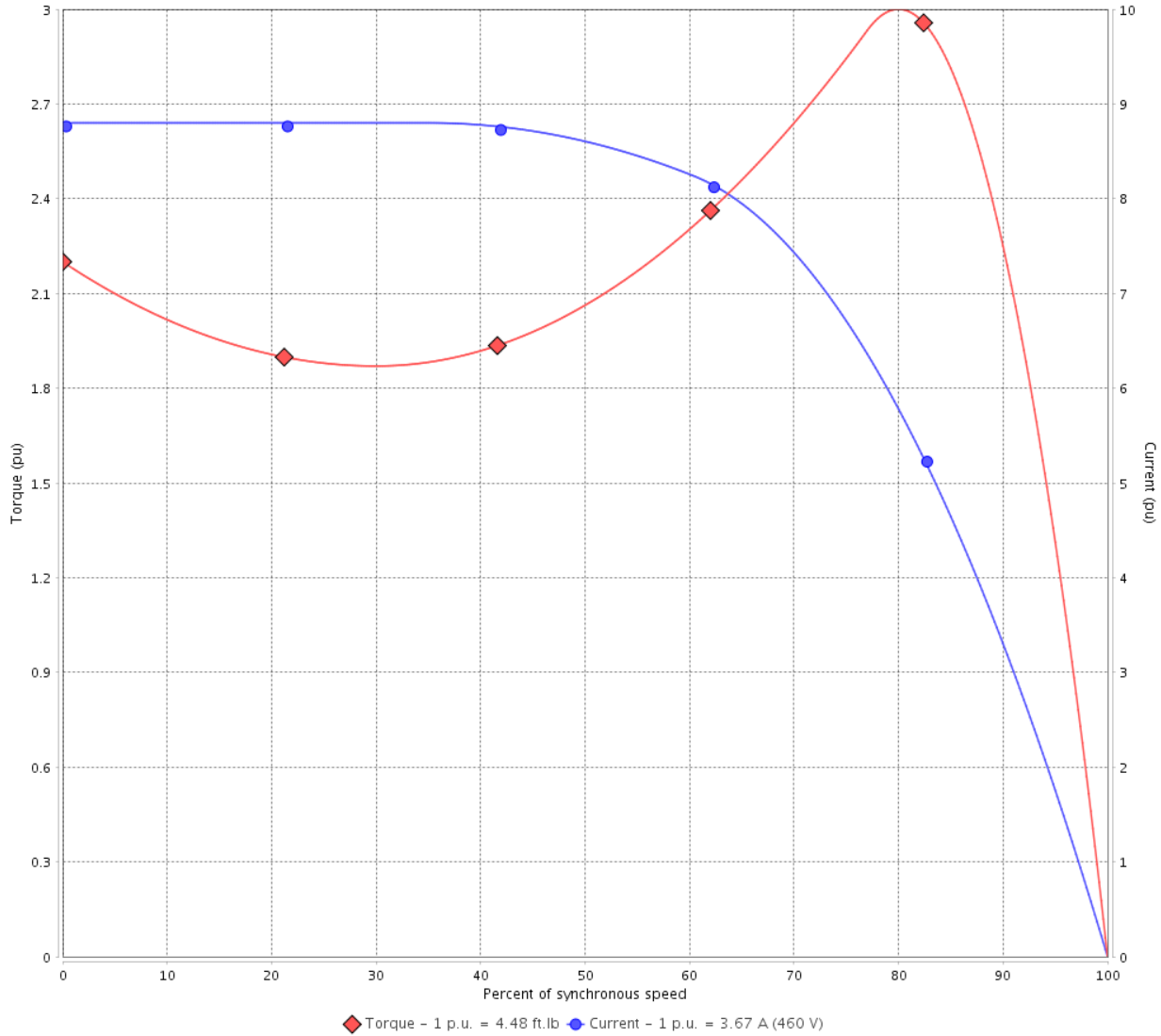
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12675351

Catalog # : 00336ET3E182TC-S

TORQUE AND CURRENT VS SPEED CURVE



Performance : 230/460 V 60 Hz 2P

Rated current	: 7.34/3.67 A	Moment of inertia (J)	: 0.1564 sq.ft.lb
LRC	: 8.8	Duty cycle	: Cont.(S1)
Rated torque	: 4.48 ft.lb	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 3515 rpm	Design	: B

Locked rotor time : 39s (cold) 22s (hot)

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TORQUE AND CURRENT VS SPEED CURVE



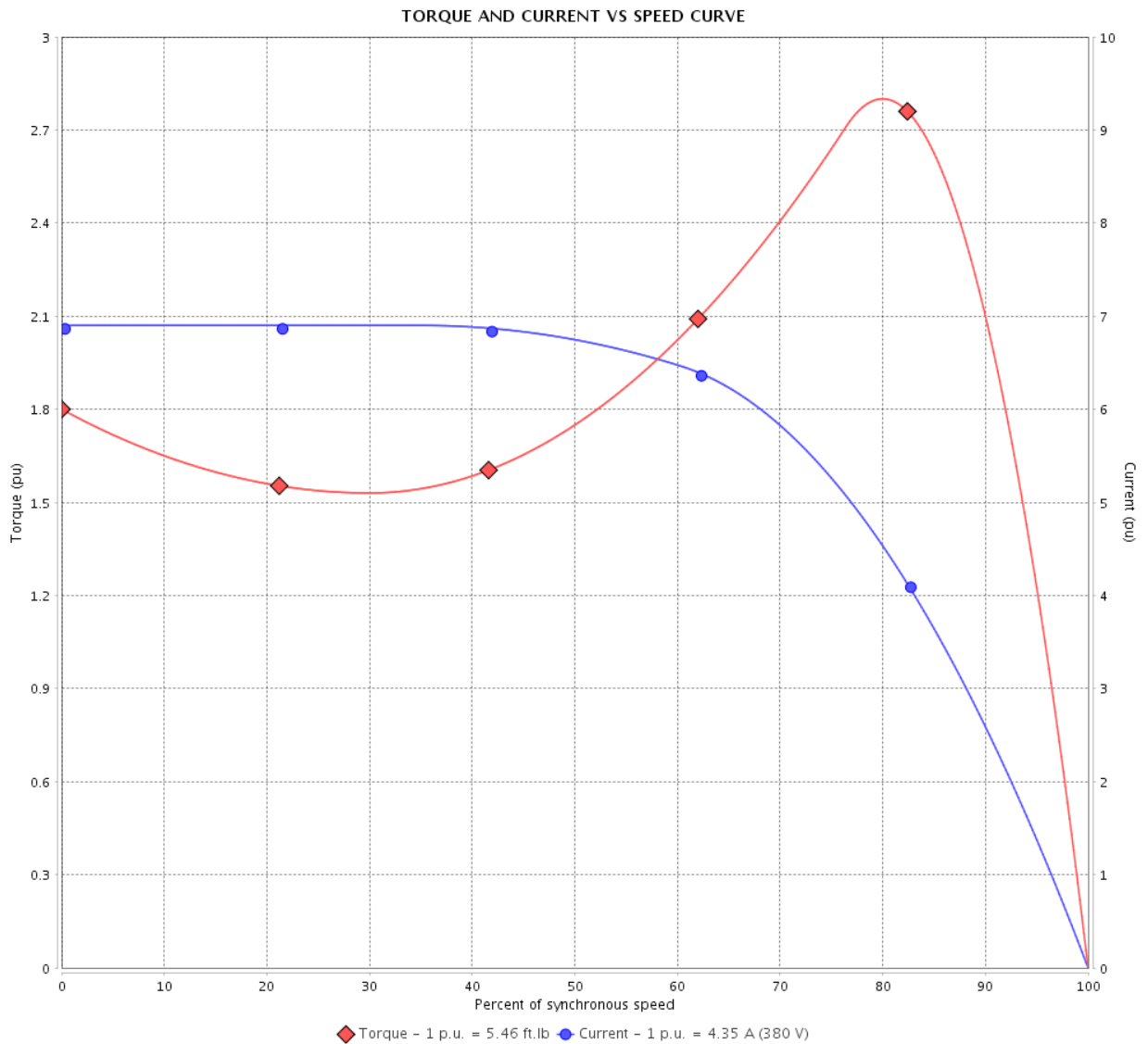
Three Phase Induction Motor - Squirrel Cage

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Performance : 190/380 V 50 Hz 2P

Rated current : 8.70/4.35 A
 LRC : 6.9
 Rated torque : 5.46 ft.lb
 Locked rotor torque : 180 %
 Breakdown torque : 280 %
 Rated speed : 2885 rpm

Moment of inertia (J) : 0.1564 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

Three Phase Induction Motor - Squirrel Cage



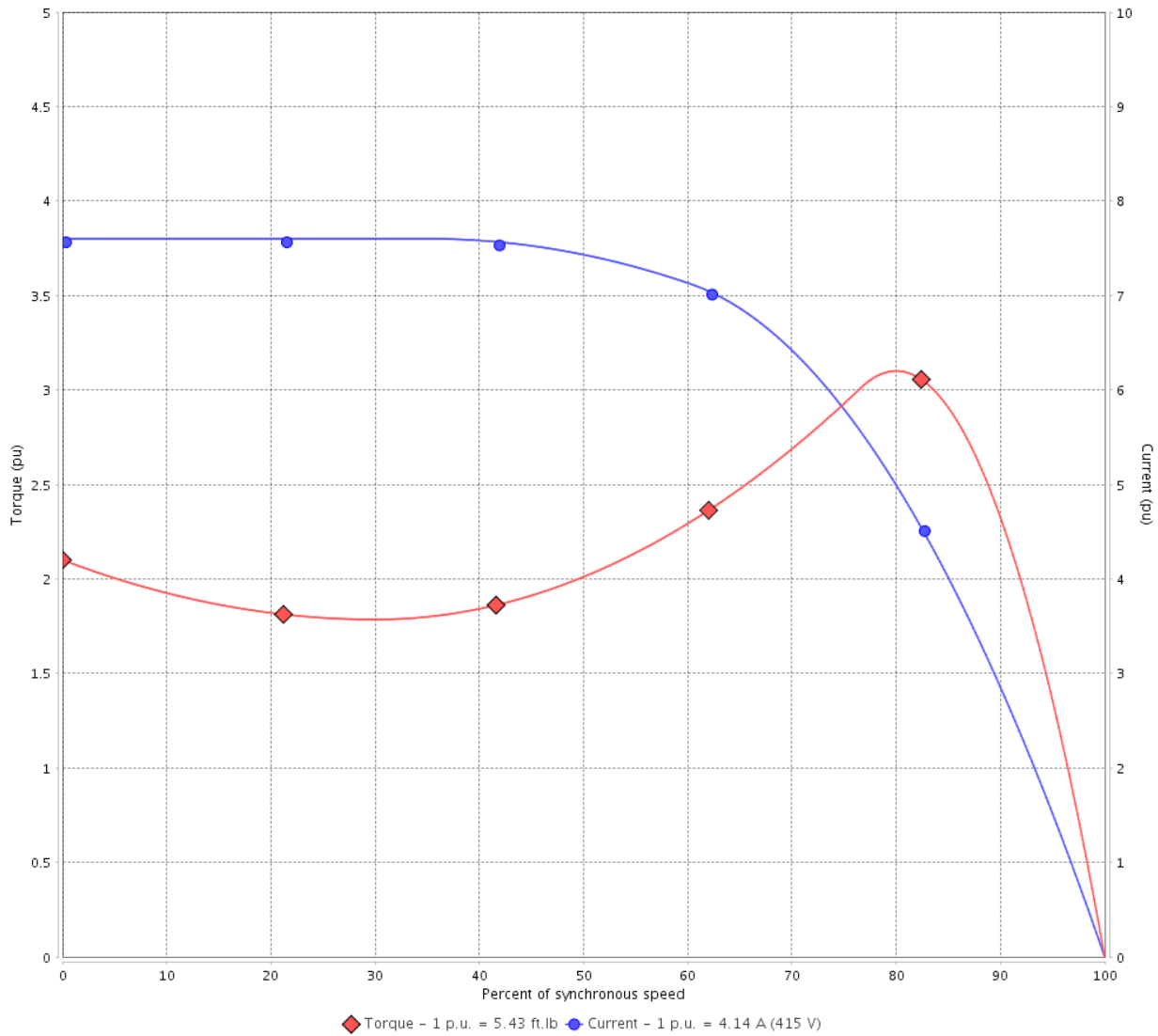
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TORQUE AND CURRENT VS SPEED CURVE



Performance : 220/415 V 50 Hz 2P

Rated current	: 7.81/4.14 A	Moment of inertia (J)	: 0.1564 sq.ft.lb
LRC	: 7.6	Duty cycle	: Cont.(S1)
Rated torque	: 5.43 ft.lb	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.15
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 2900 rpm	Design	: B

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

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

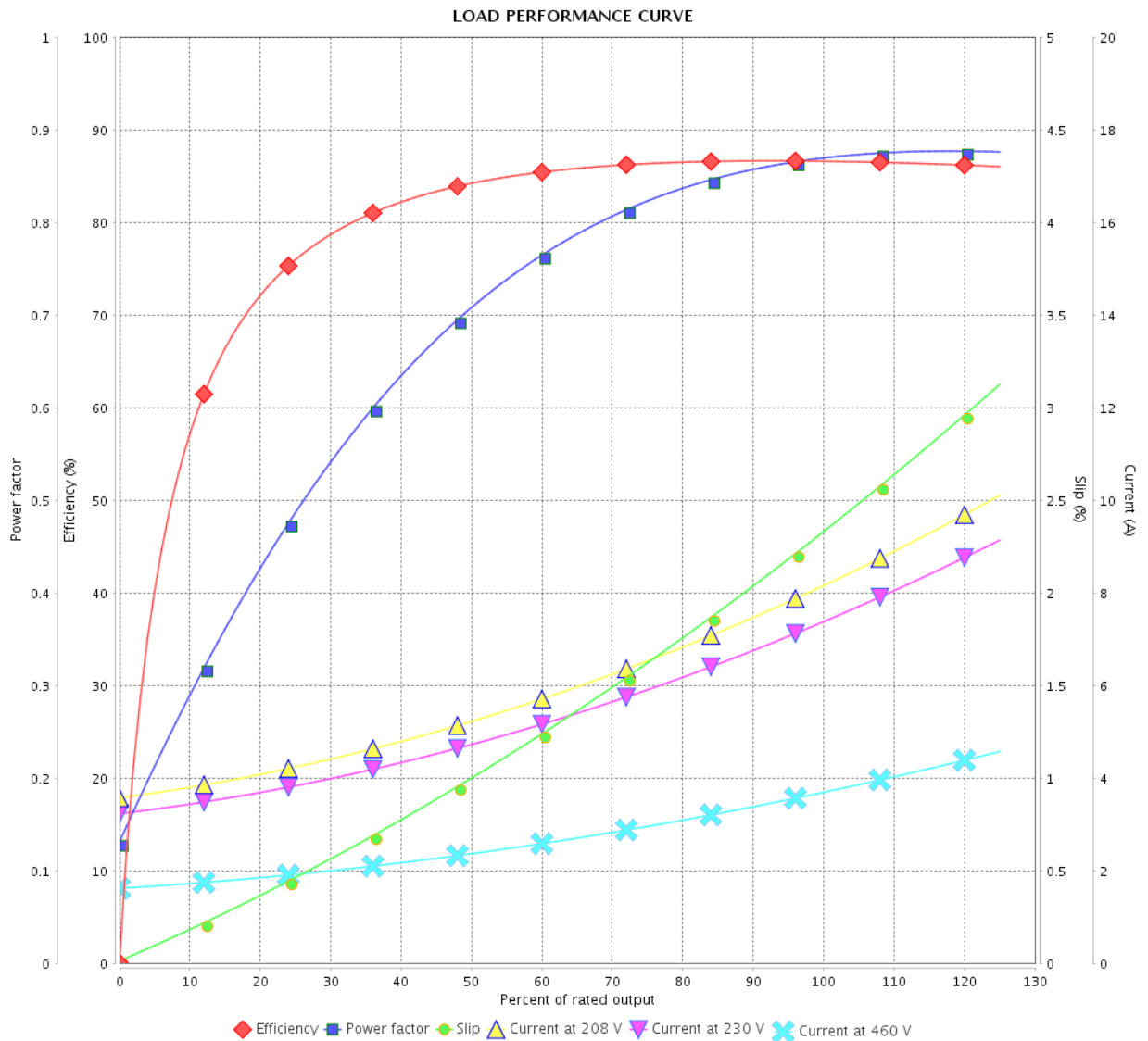


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 Rated torque : 4.48 ft.lb
 Locked rotor torque : 220 %
 Breakdown torque : 300 %
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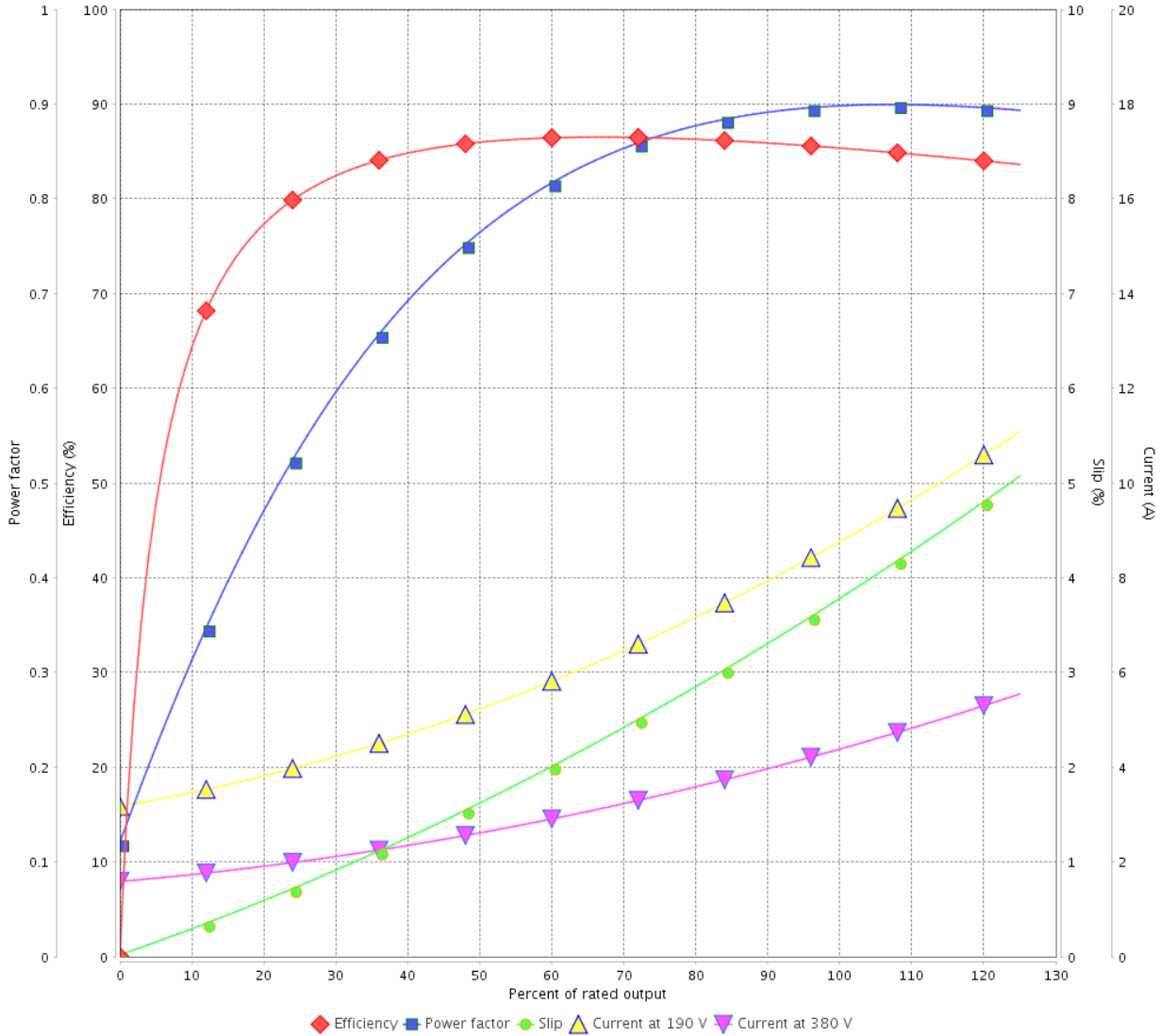
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Performance : 190/380 V 50 Hz 2P

Rated current : 8.70/4.35 A
 LRC : 6.9
 Rated torque : 5.46 ft.lb
 Locked rotor torque : 180 %
 Breakdown torque : 280 %
 Rated speed : 2885 rpm

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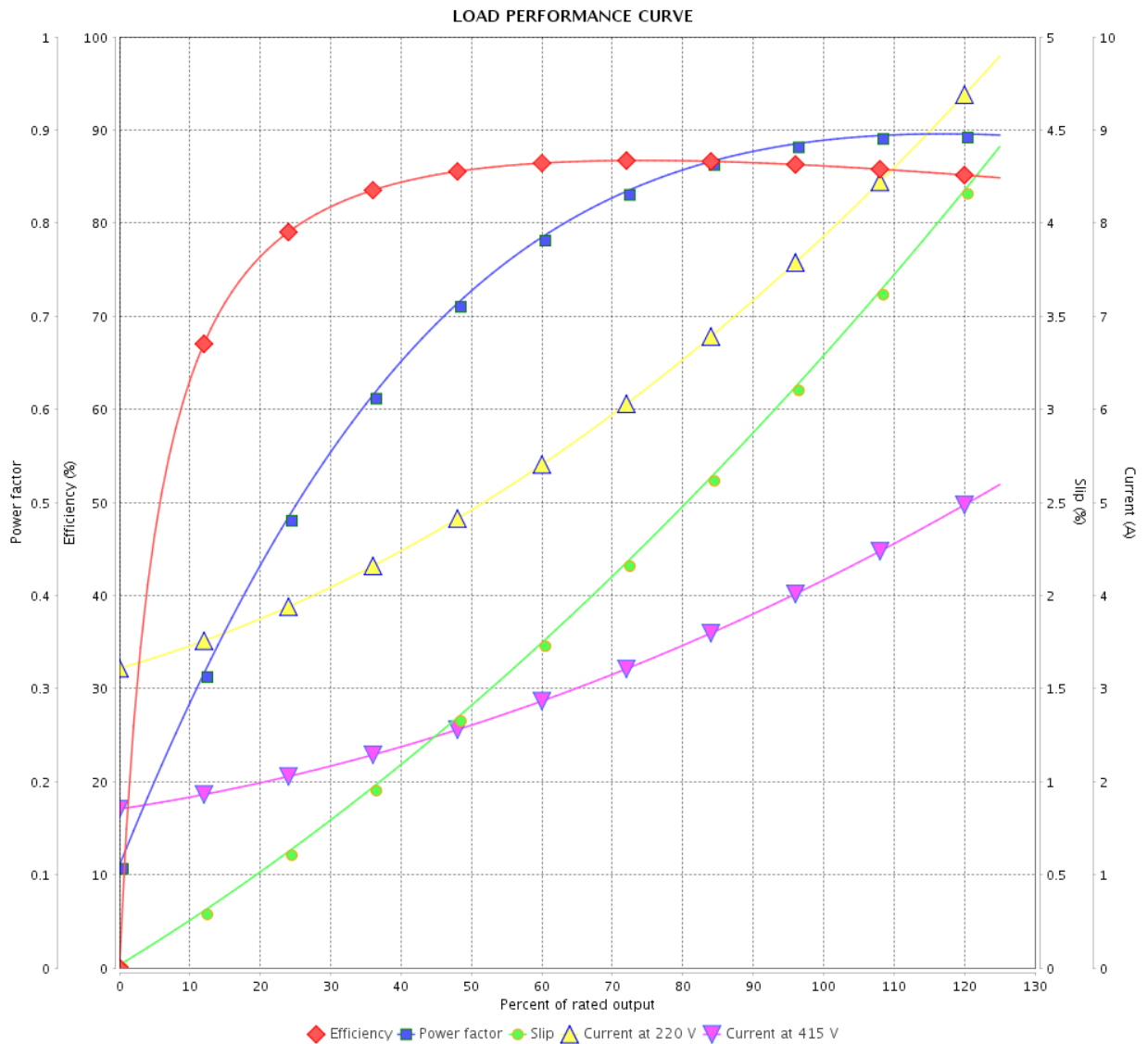


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THERMAL LIMIT CURVE



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Heating constant

Cooling constant

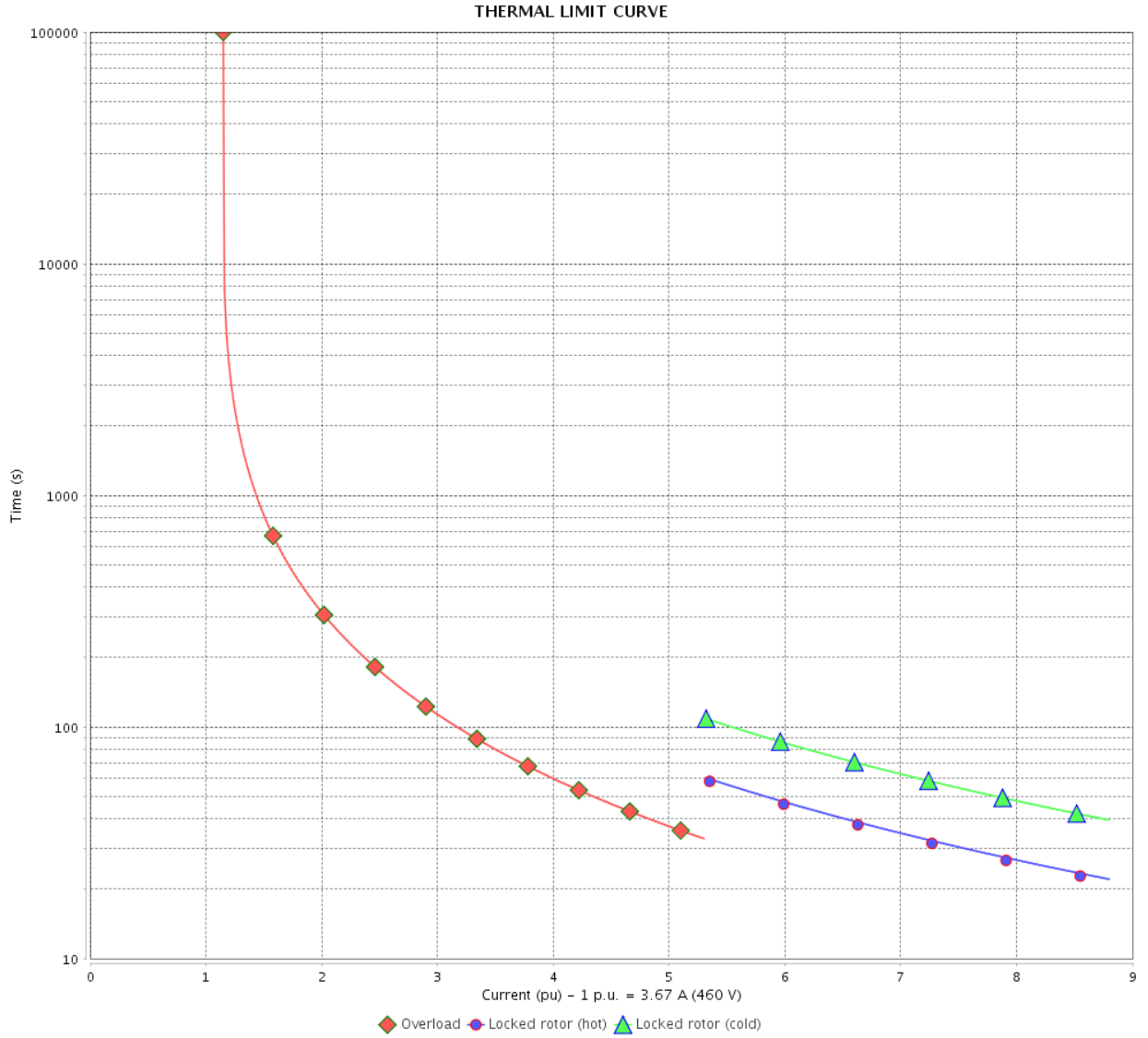
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Rated torque	: 5.46 ft.lb	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.15
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 2885 rpm	Design	: B

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Cooling constant

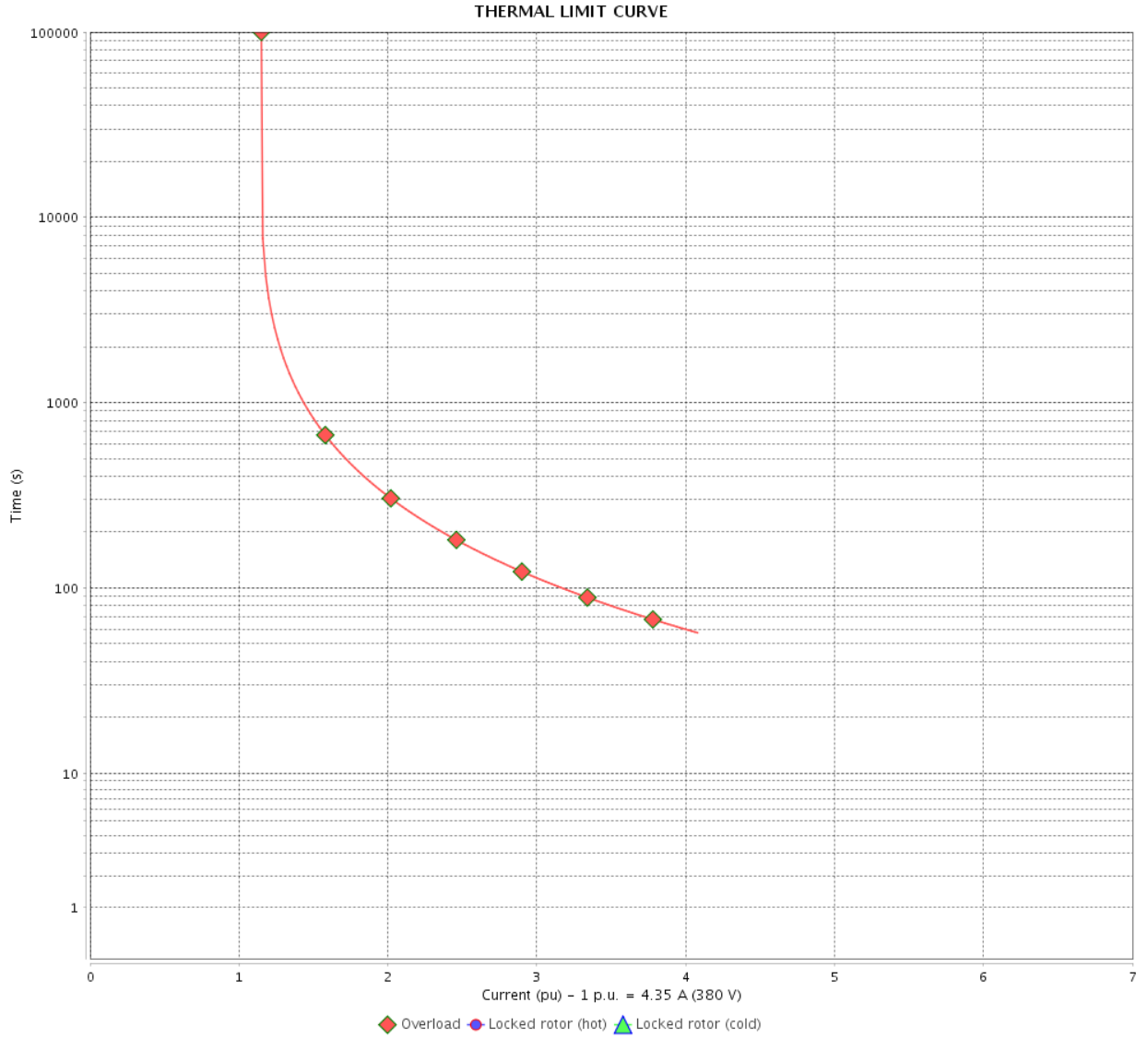
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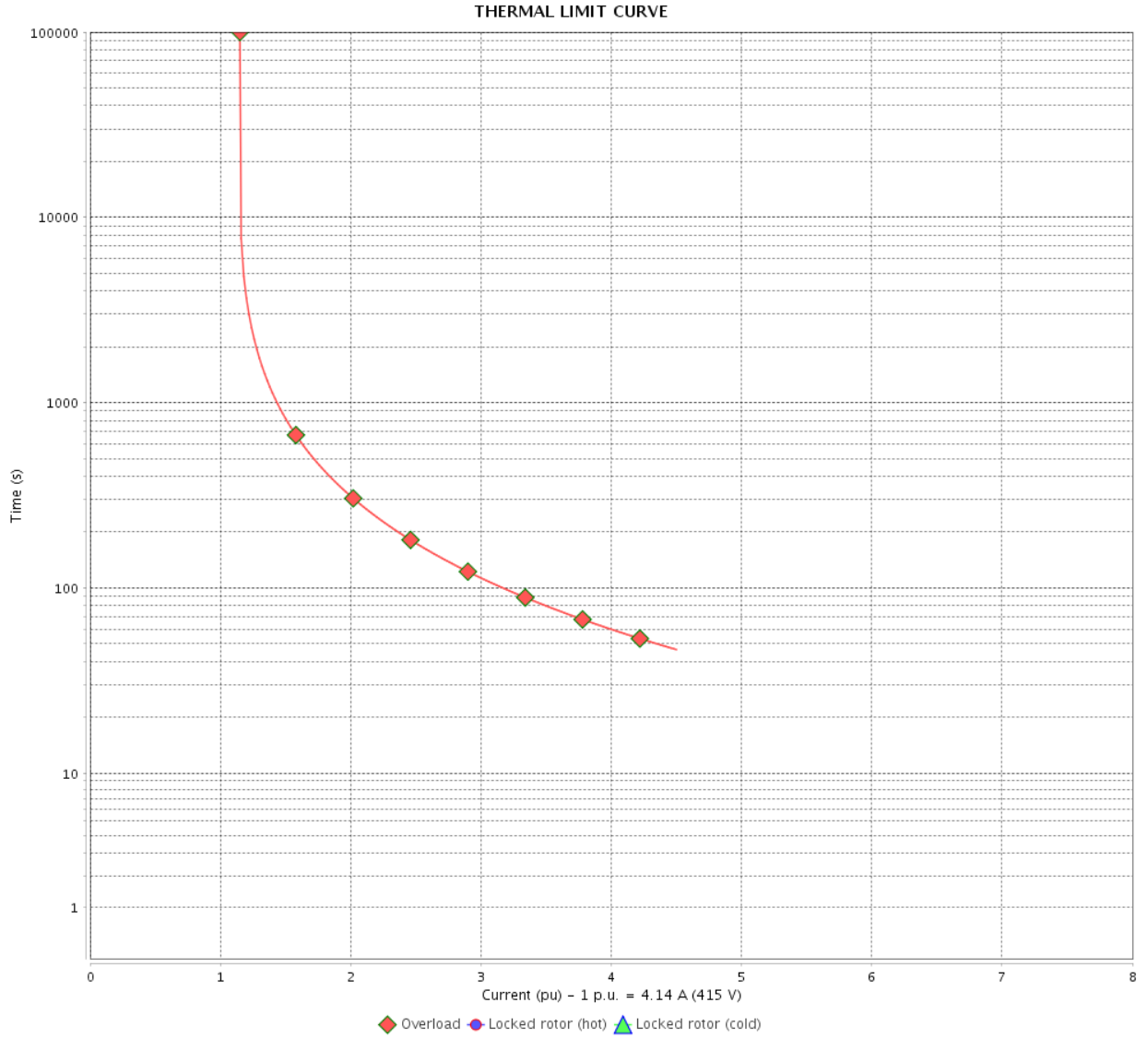
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

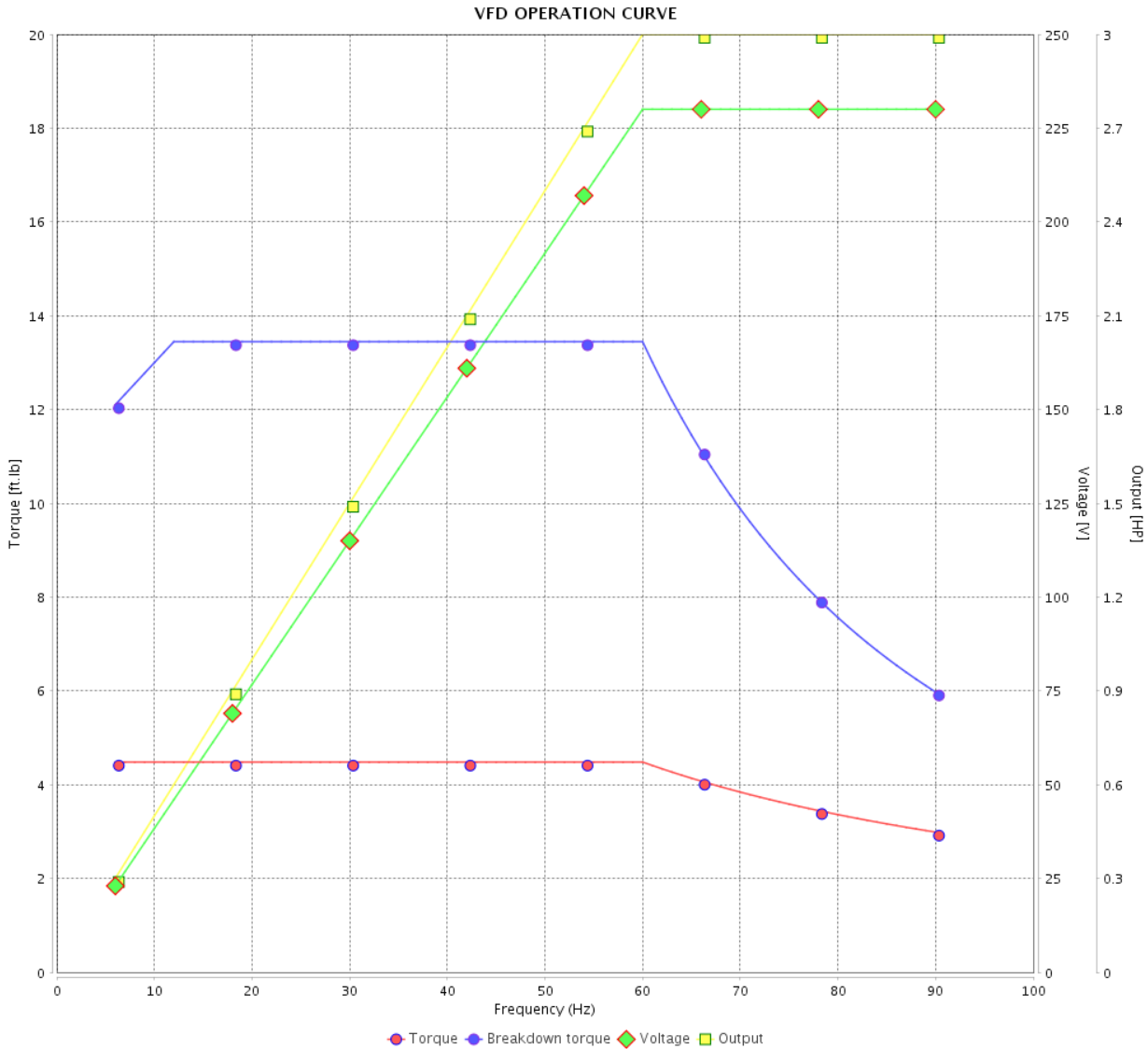


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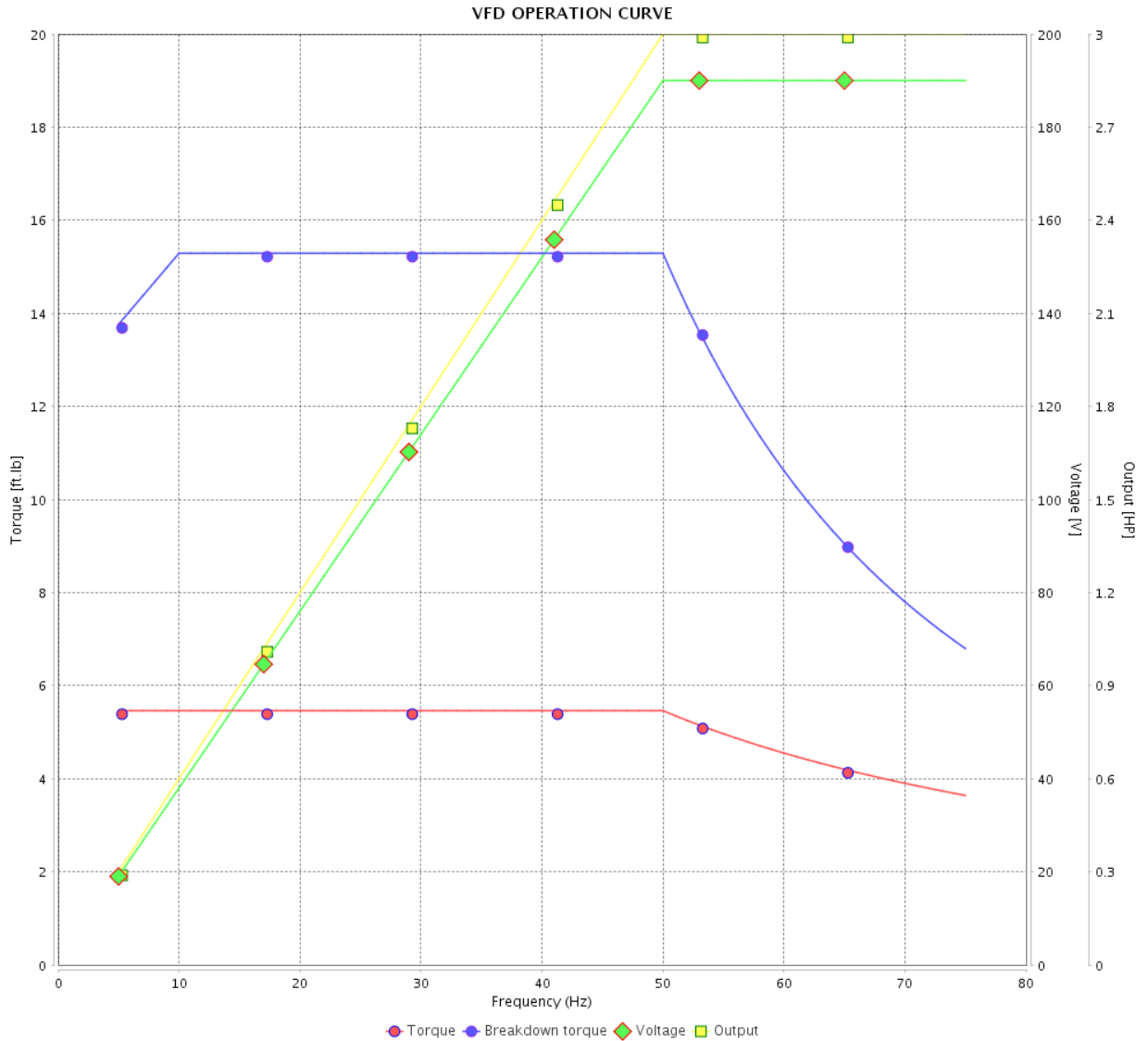


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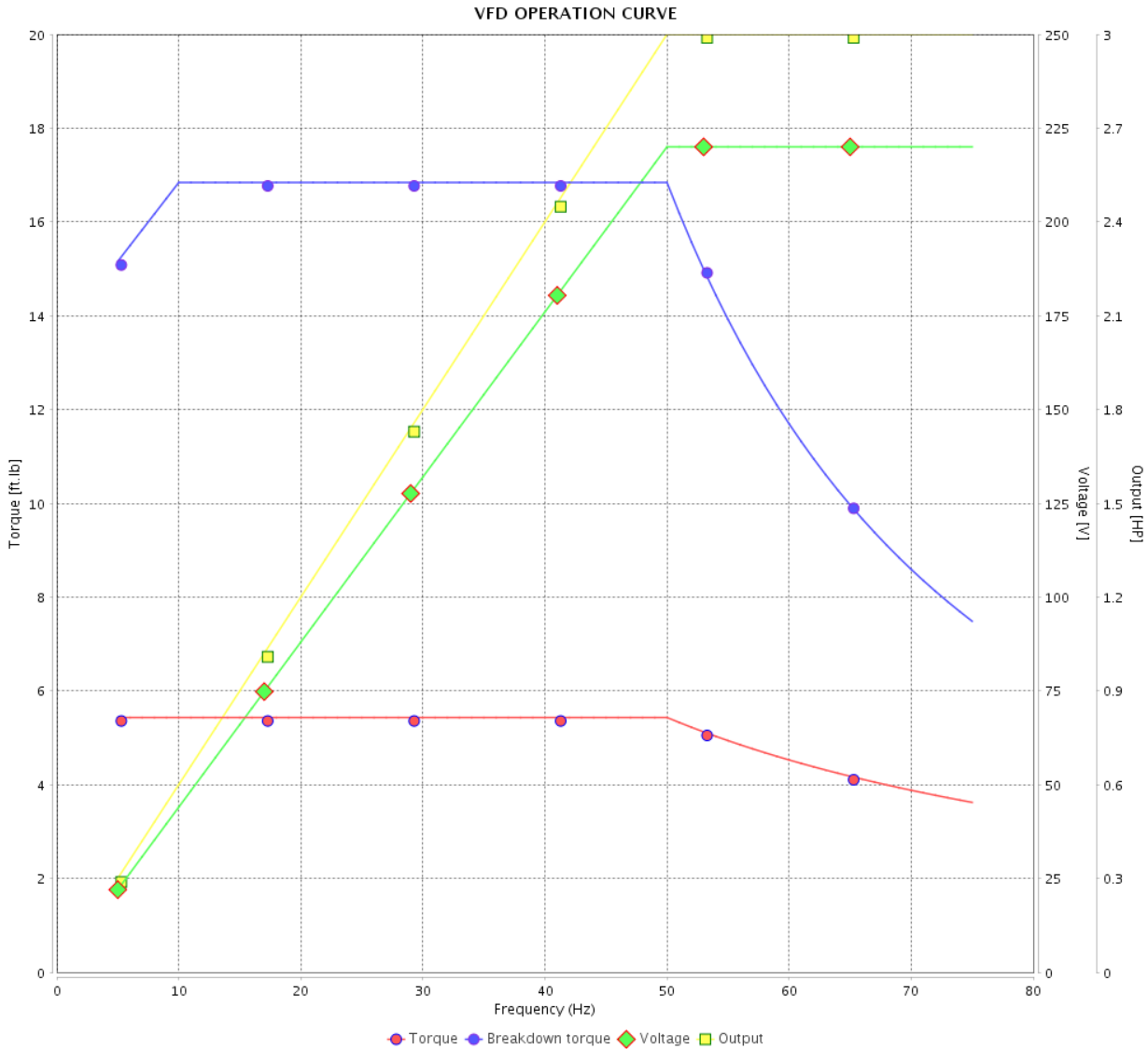


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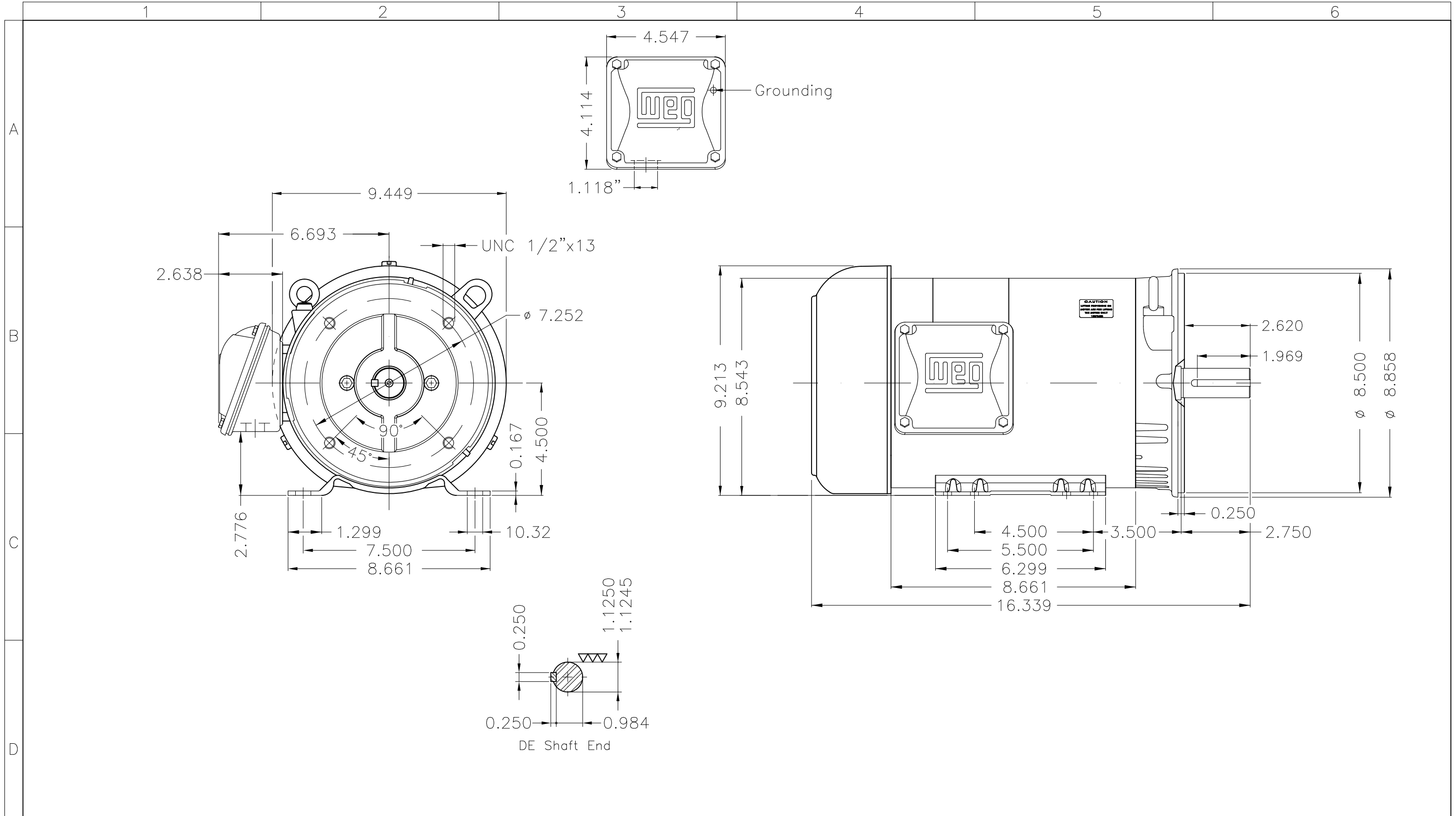



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Color Munsell N 1 matte black											
Painting plan 207N											
Mounting F-1/B34R(D)											
ECM	LOC	SUMMARY OF MODIFICATIONS					EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	PIRWBUSER	THREE PH. MOTOR ROLLED STEEL PREM. EFF.						PREVIEW WDD			
CHECKED		FRAME 182/4TC IP55 TEFC									
RELEASED											
REL DT.	WMO	Jaragua do Sul	Product Engineering			SHEET	1 / 1				

3 HP 02 Poles 60 Hz

Dimensions in inches XME A3



NEMA
Premium



3PT9



Energy Verified

MADE IN MEXICO

MAT: 12675351 CC029A

W01.TE0IC0X0N

MODEL 00336ET3E182TC-S

14FEB2022 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 3.0
FR 182/4TC		KW 2.2
DUTY CONT.		V 230/460
ALT 1000 m.a.s.l.		A 7.34/3.67
INS CL F AT 80K	IP55	SFA 8.44/4.22
AMB 40°C	DES B	SF 1.15
ENCL TEFC	CODE K	PF 0.87
USABLE @ 208V 8.12A		RPM 3515
SF1.00		NEMA NOM. EFF 86.5%

ALTERNATE RATING: 3.0HP 50Hz 190-220/380-415V SF1.15
8.70-7.88/4.35-4.07A 2885RPM EFF 85.3% (IE2) IEC 60034-1

For safe area-Inverter duty motor For 60Hz use on VPWM 1000:1 VT, 10:1 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.

