

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Multimounting IE3 Three-Phase Product code : 14052062
Catalog # : 00318ET3WAL100LFF-W2

Frame : L100L	Cooling method : IC411 - TEFC
Insulation class : F	Mounting : B35L(E)
Duty cycle : 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 : 83.9 lb
Protection degree : IP55	Moment of inertia (J) : 0.2848 sq.ft.lb
Design : N	

Output [HP]	4	4	4
Poles	4	4	4
Frequency [Hz]	50	50	60
Rated voltage [V]	220/380	240/415	460
Rated current [A]	10.8/6.26	10.5/6.07	5.33
L. R. Amperes [A]	84.3/48.8	81.9/47.3	45.8
LRC [A]	7.8	7.8	8.6
No load current [A]	5.53/3.20	6.57/3.80	3.20
Rated speed [RPM]	1430	1445	1740
Slip [%]	4.67	3.67	3.33
Rated torque [ft.lb]	14.7	14.5	12.1
Locked rotor torque [%]	310	380	459
Breakdown torque [%]	330	400	480
Service factor	1.25	1.25	1.25
Temperature rise	80 K	80 K	80 K
Locked rotor time	23s (cold) 13s (hot)	27s (cold) 15s (hot)	32s (cold) 18s (hot)
Noise level ²	53.0 dB(A)	53.0 dB(A)	54.0 dB(A)
Efficiency (%)	25%		
	50%	87.7	84.0
	75%	88.0	86.5
	100%	87.7	89.5
Power Factor	25%		
	50%	0.65	0.59
	75%	0.77	0.71
	100%	0.83	0.79

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type :	6206 ZZ	6206 ZZ	Max. traction : 393 lb
Sealing :	V'Ring	V'Ring	Max. compression : 477 lb
Lubrication interval :	-	-	
Lubricant amount :	-	-	
Lubricant type :	Mobil Polyrex EM		

Notes

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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Revision

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

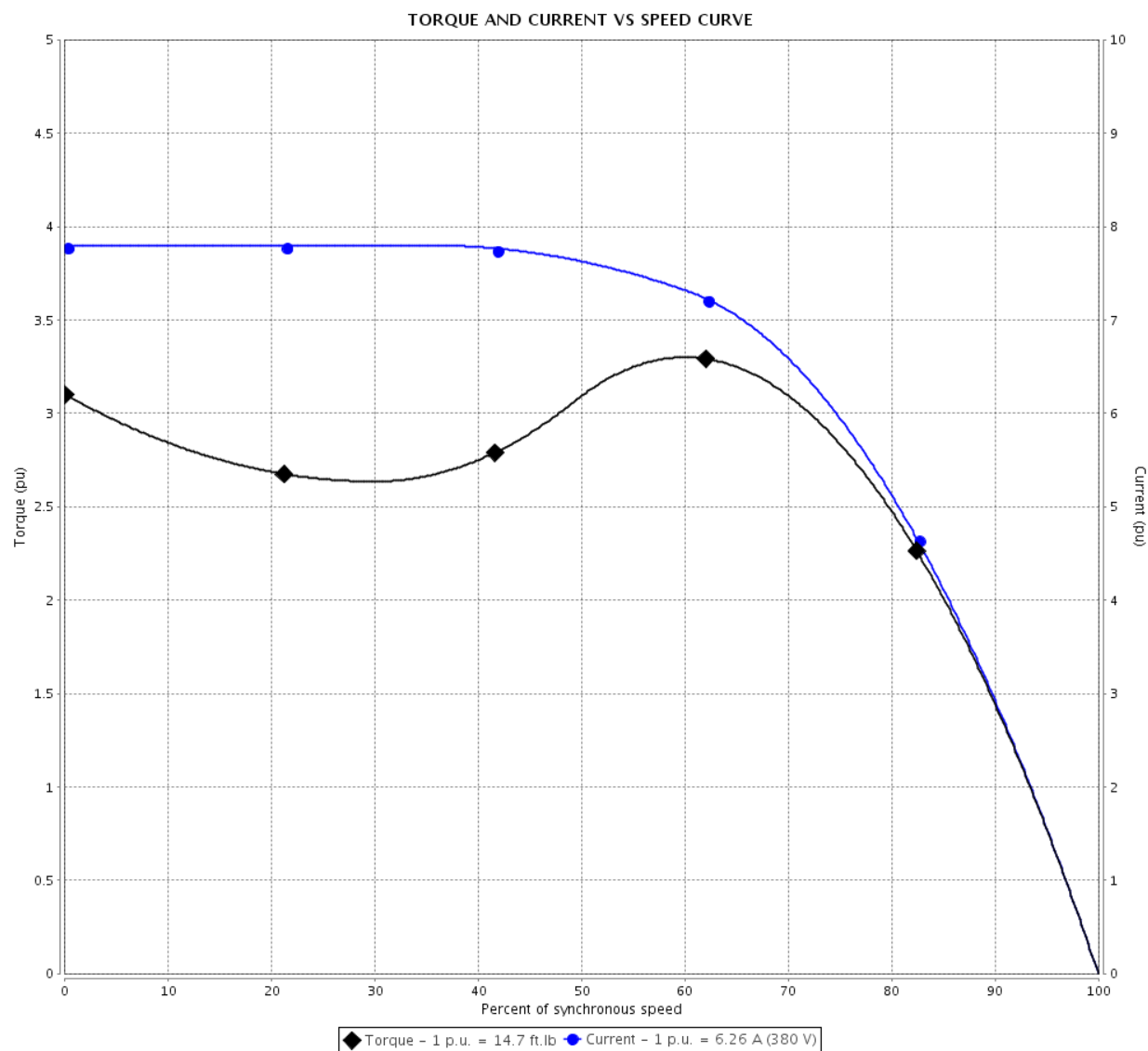
Product line : Multimounting IE3 Three-Phase

Product code :

14052062

Catalog # :

00318ET3WAL100LFF-W2



Performance : 220/380 V 50 Hz 4P

Rated current : 10.8/6.26 A
LRC : 7.8
Rated torque : 14.7 ft.lb
Locked rotor torque : 310 %
Breakdown torque : 330 %
Rated speed : 1430 rpm

Moment of inertia (J) : 0.2848 sq.ft.lb
Duty cycle : S1
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : N

Locked rotor time : 23s (cold) 13s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

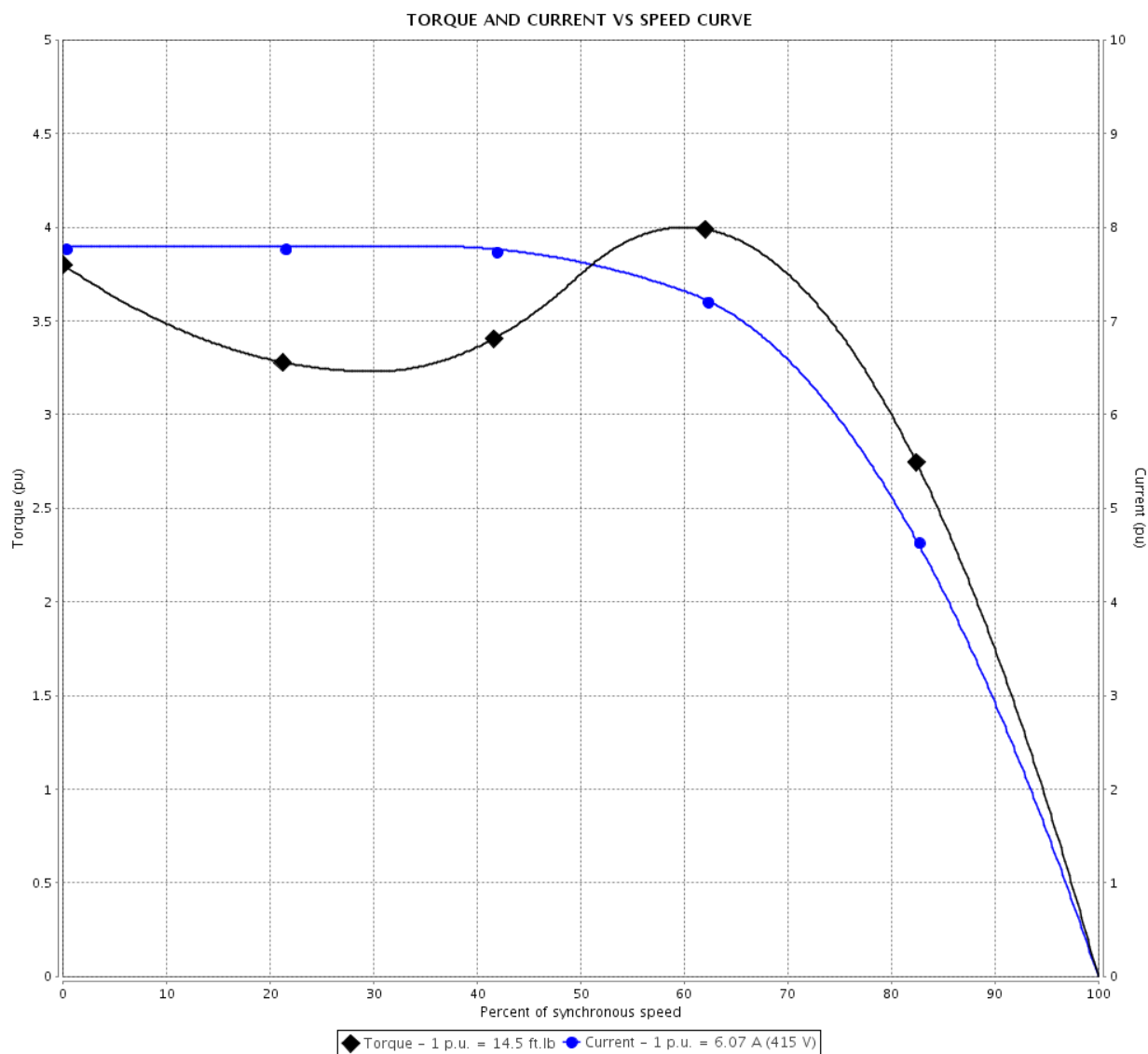
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Catalog # :

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Performance : 240/415 V 50 Hz 4P

Rated current : 10.5/6.07 A
 LRC : 7.8
 Rated torque : 14.5 ft.lb
 Locked rotor torque : 380 %
 Breakdown torque : 400 %
 Rated speed : 1445 rpm

Moment of inertia (J) : 0.2848 sq.ft.lb
 Duty cycle : S1
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : N

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

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TORQUE AND CURRENT VS SPEED CURVE

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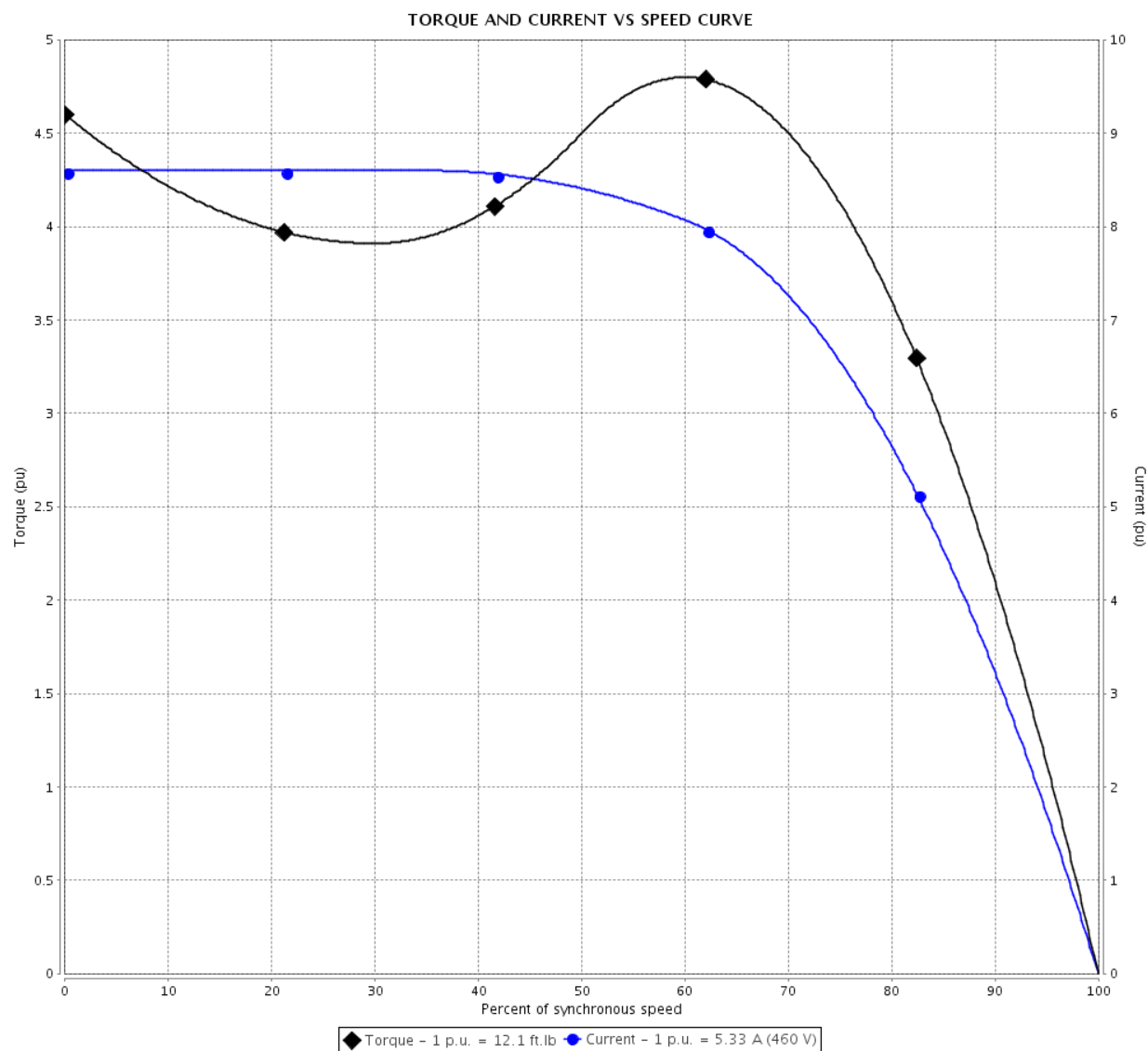
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Product code :

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Catalog # :

00318ET3WAL100LFF-W2



Performance : 460 V 60 Hz 4P

Rated current : 5.33 A
LRC : 8.6
Rated torque : 12.1 ft.lb
Locked rotor torque : 459 %
Breakdown torque : 480 %
Rated speed : 1740 rpm

Moment of inertia (J) : 0.2848 sq.ft.lb
Duty cycle : S1
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : N

Locked rotor time : 32s (cold) 18s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

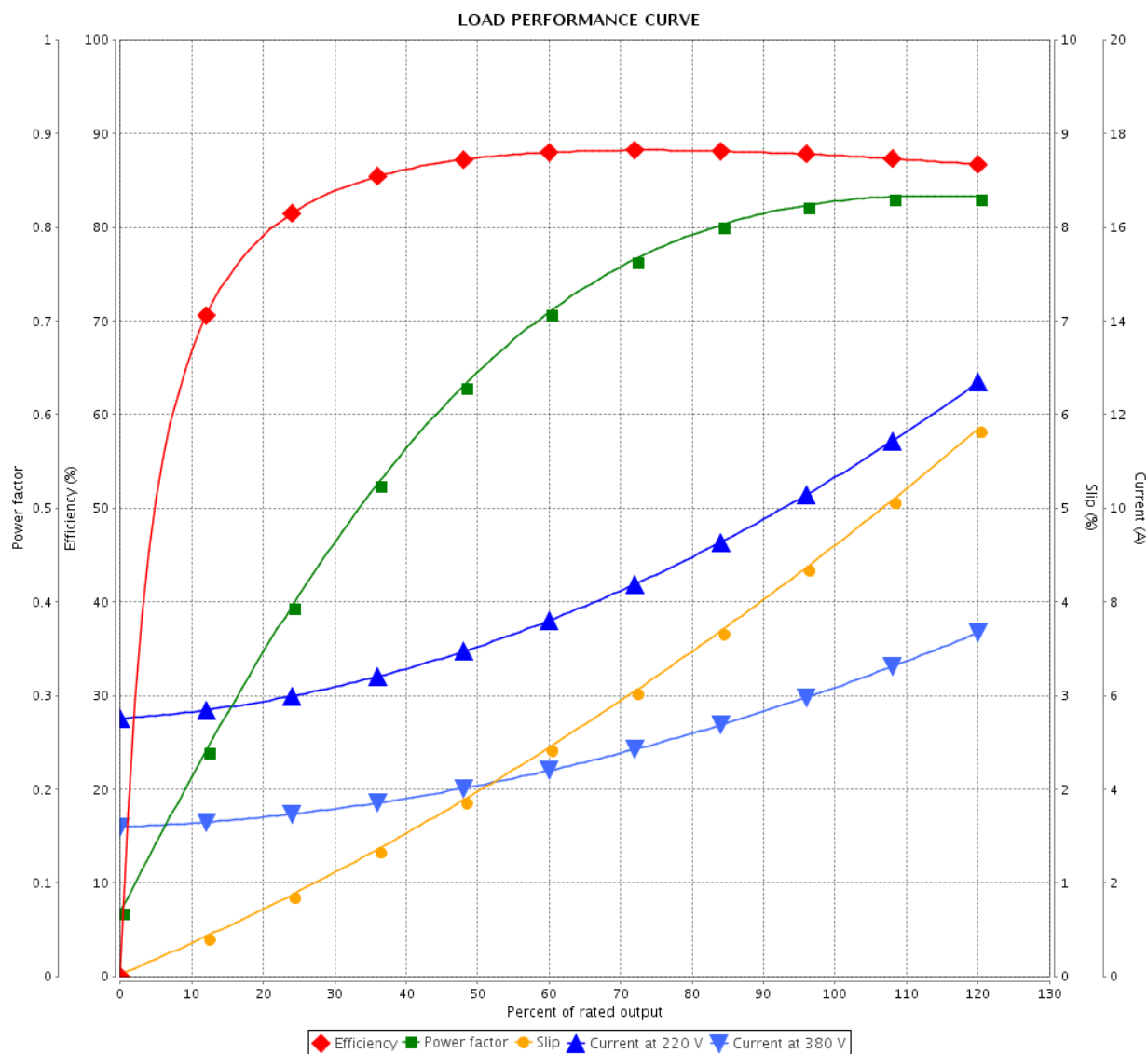
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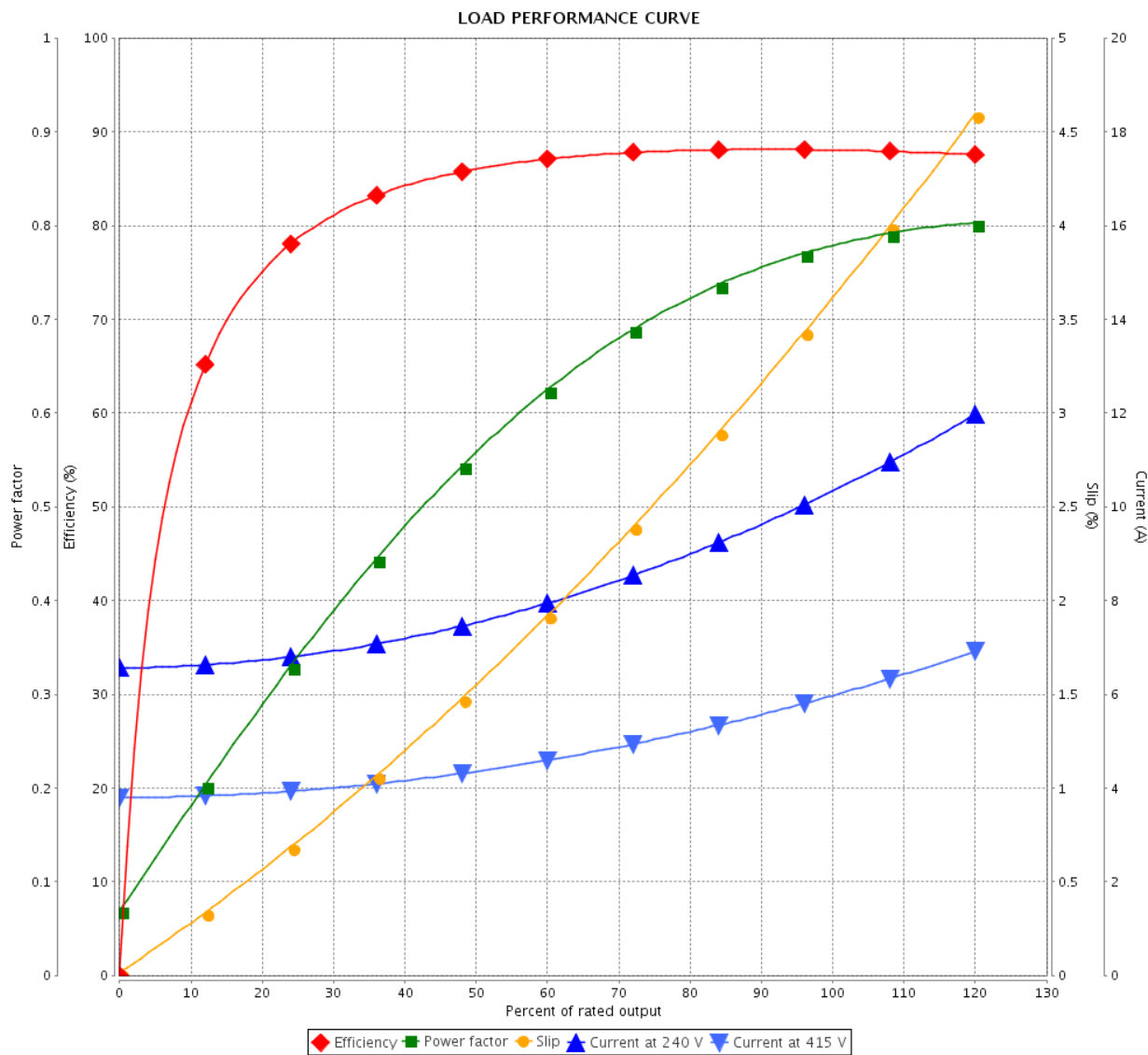
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Customer :

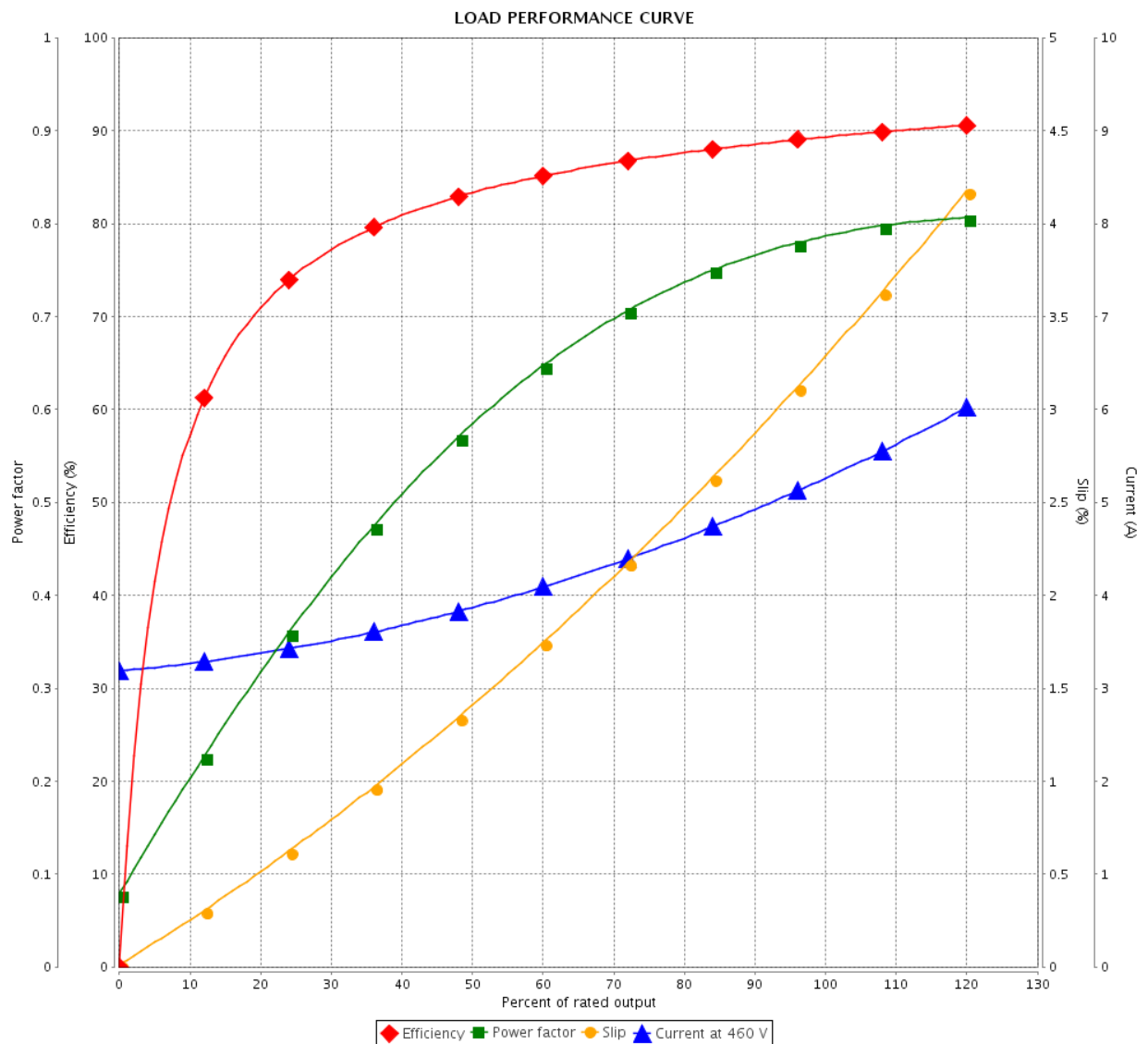
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

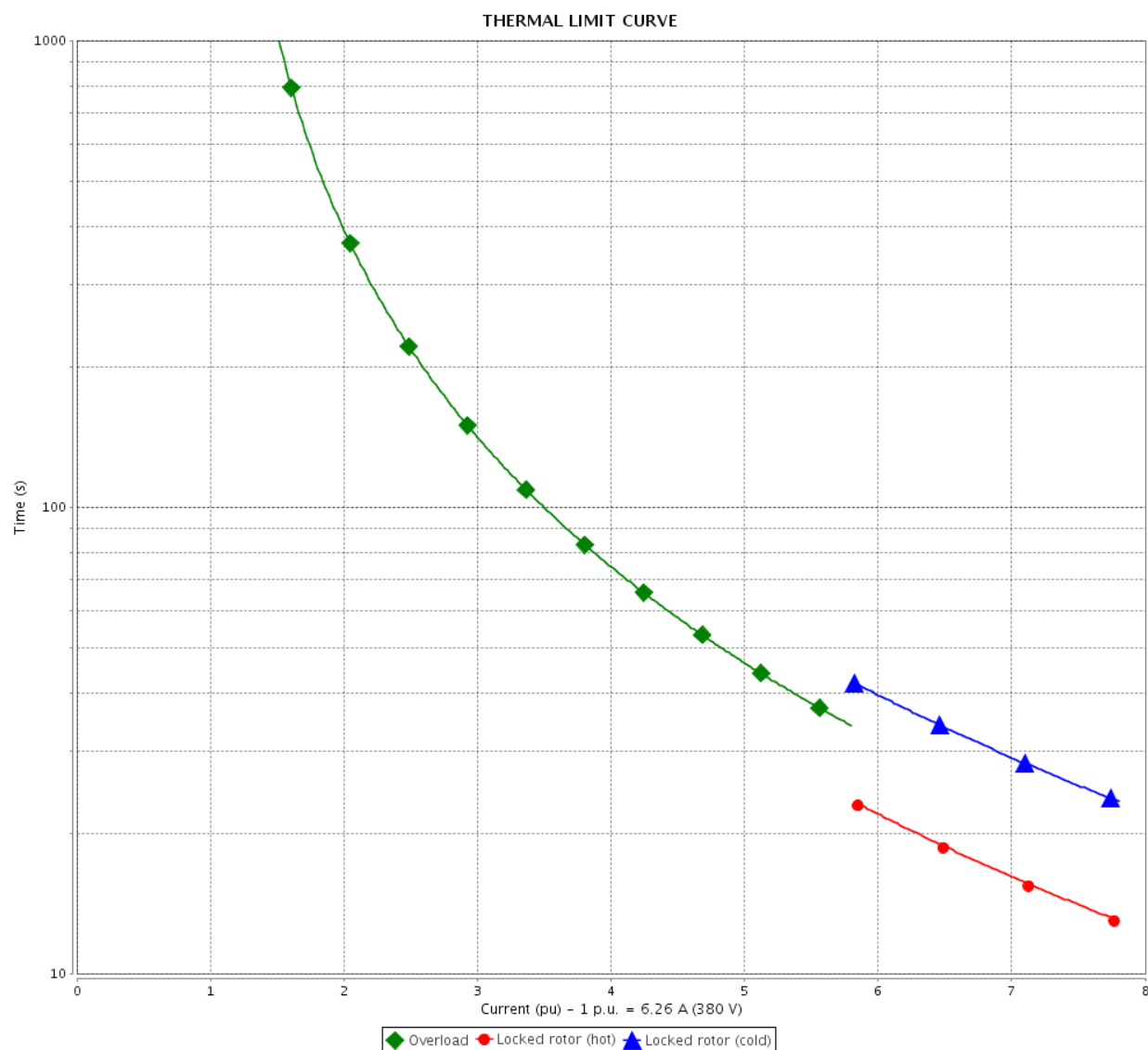
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Heating constant

Cooling constant

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THERMAL LIMIT CURVE

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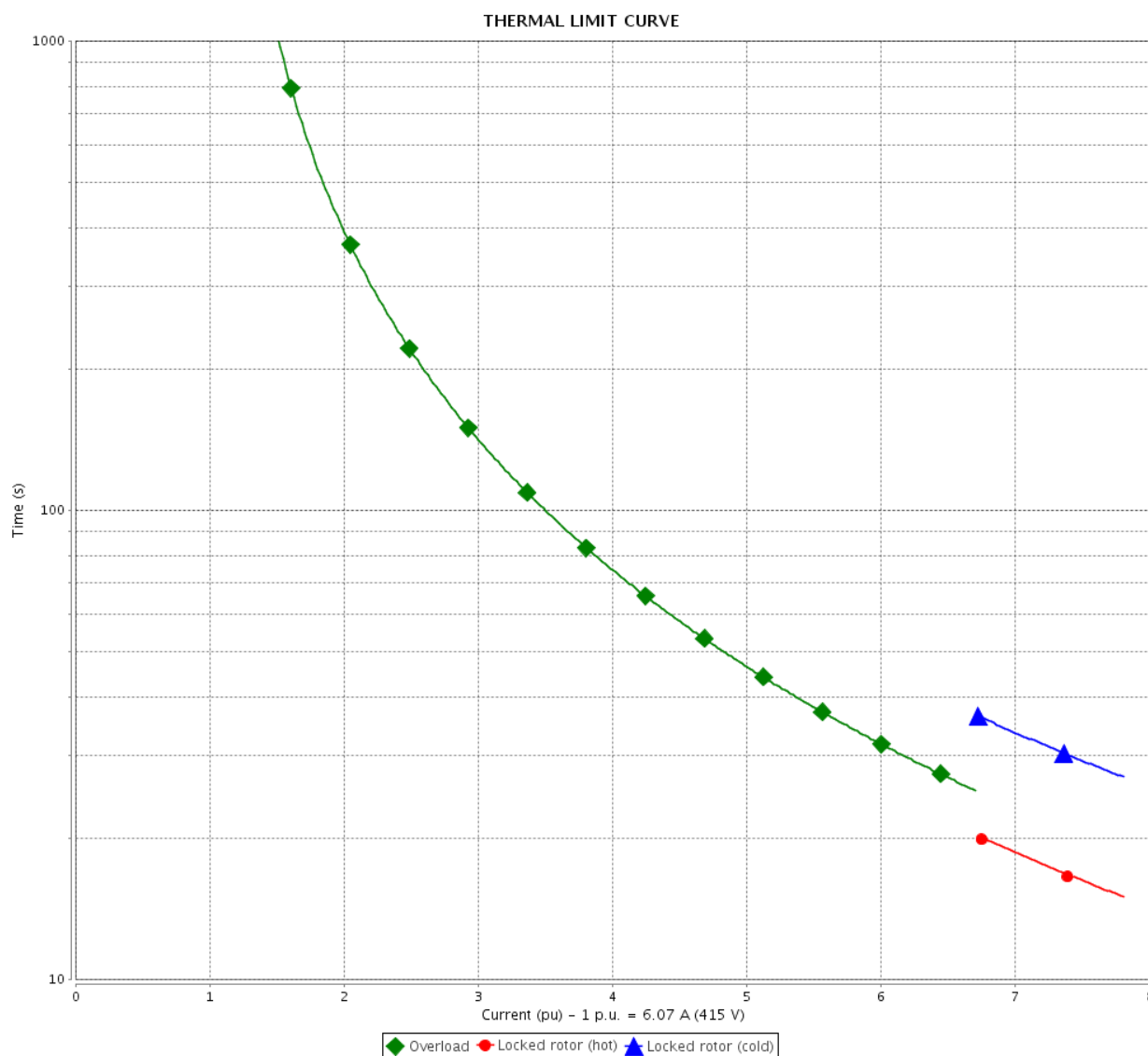
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THERMAL LIMIT CURVE

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Customer :

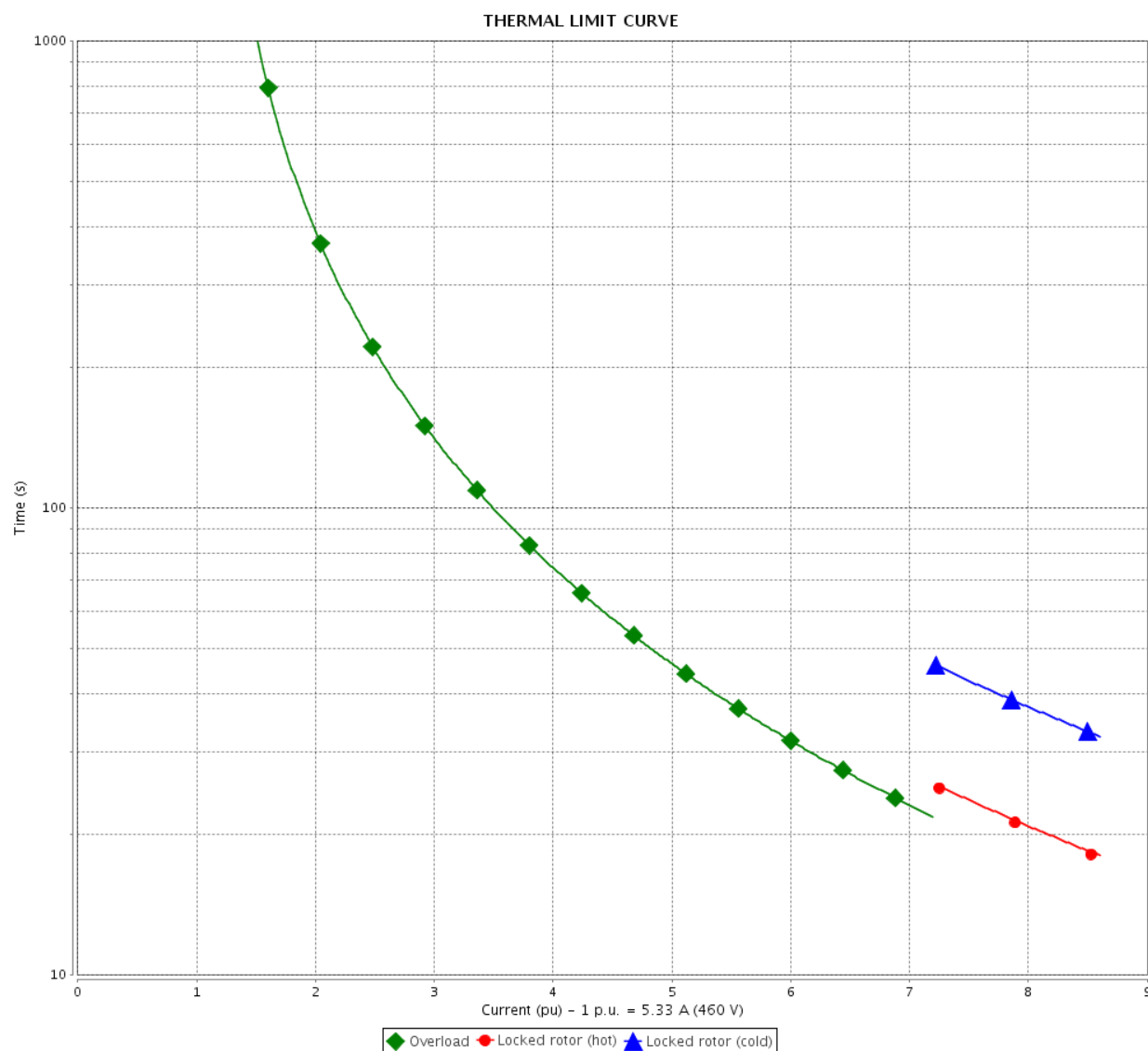
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

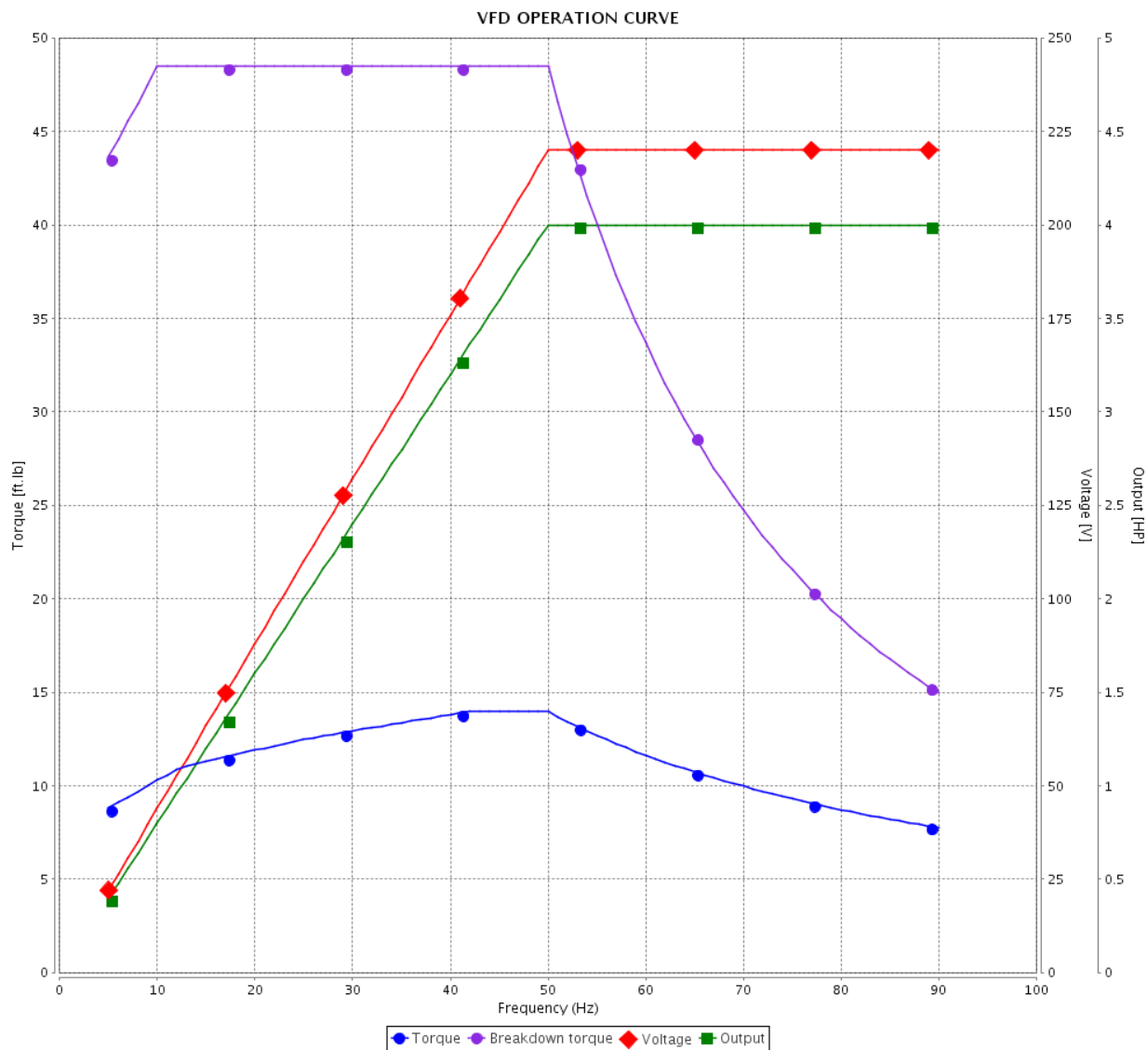
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VFD OPERATION CURVE

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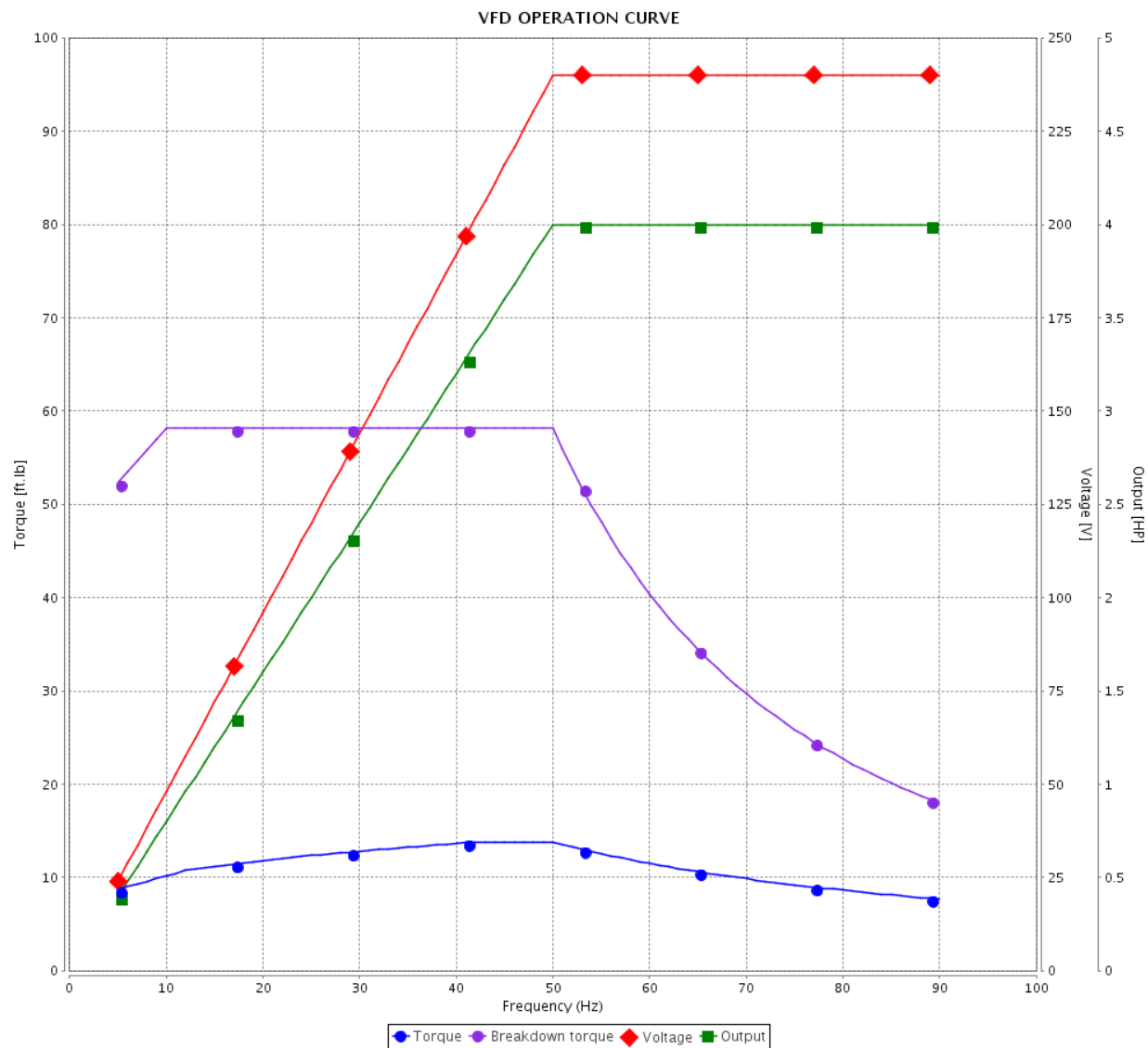
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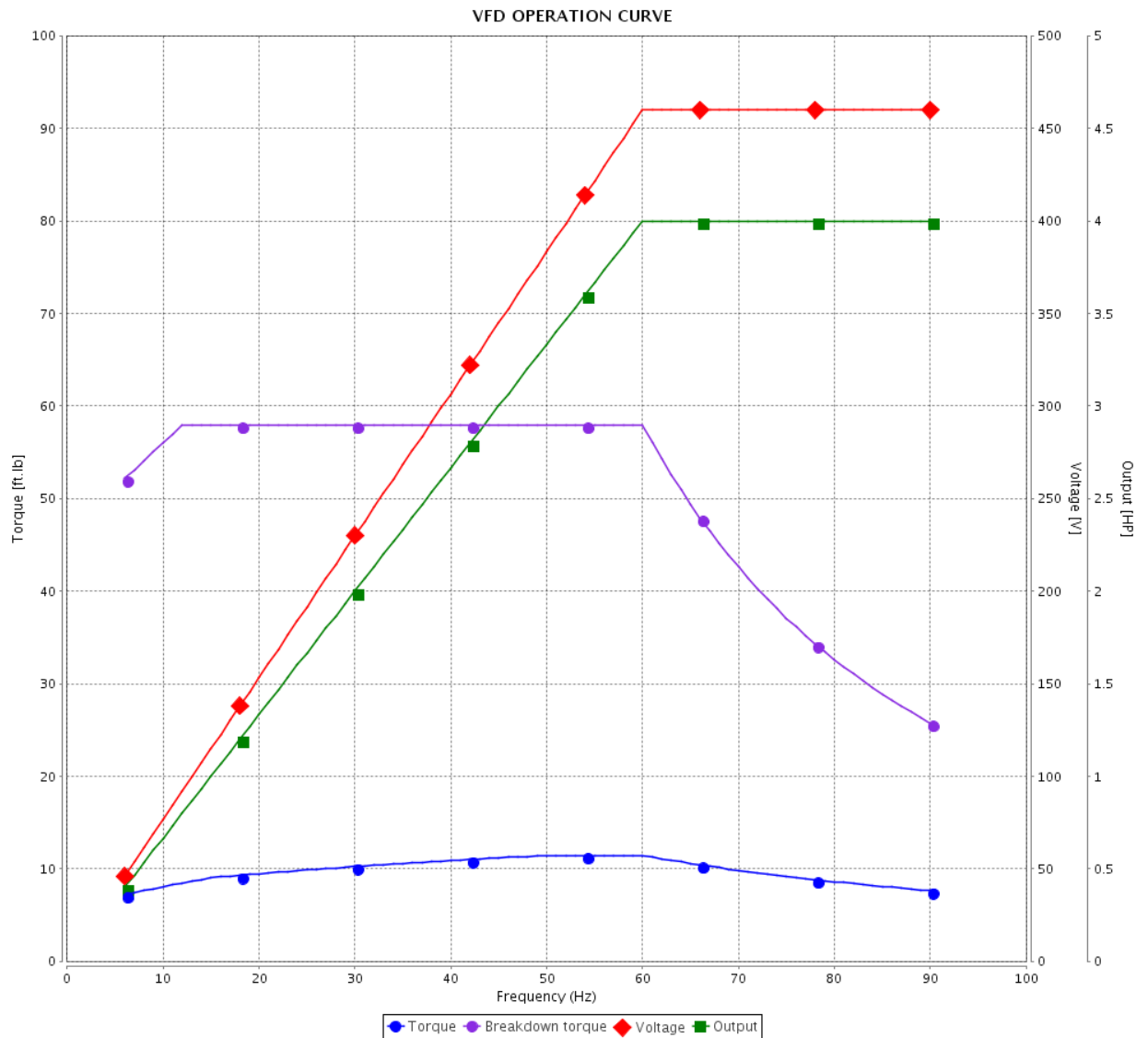
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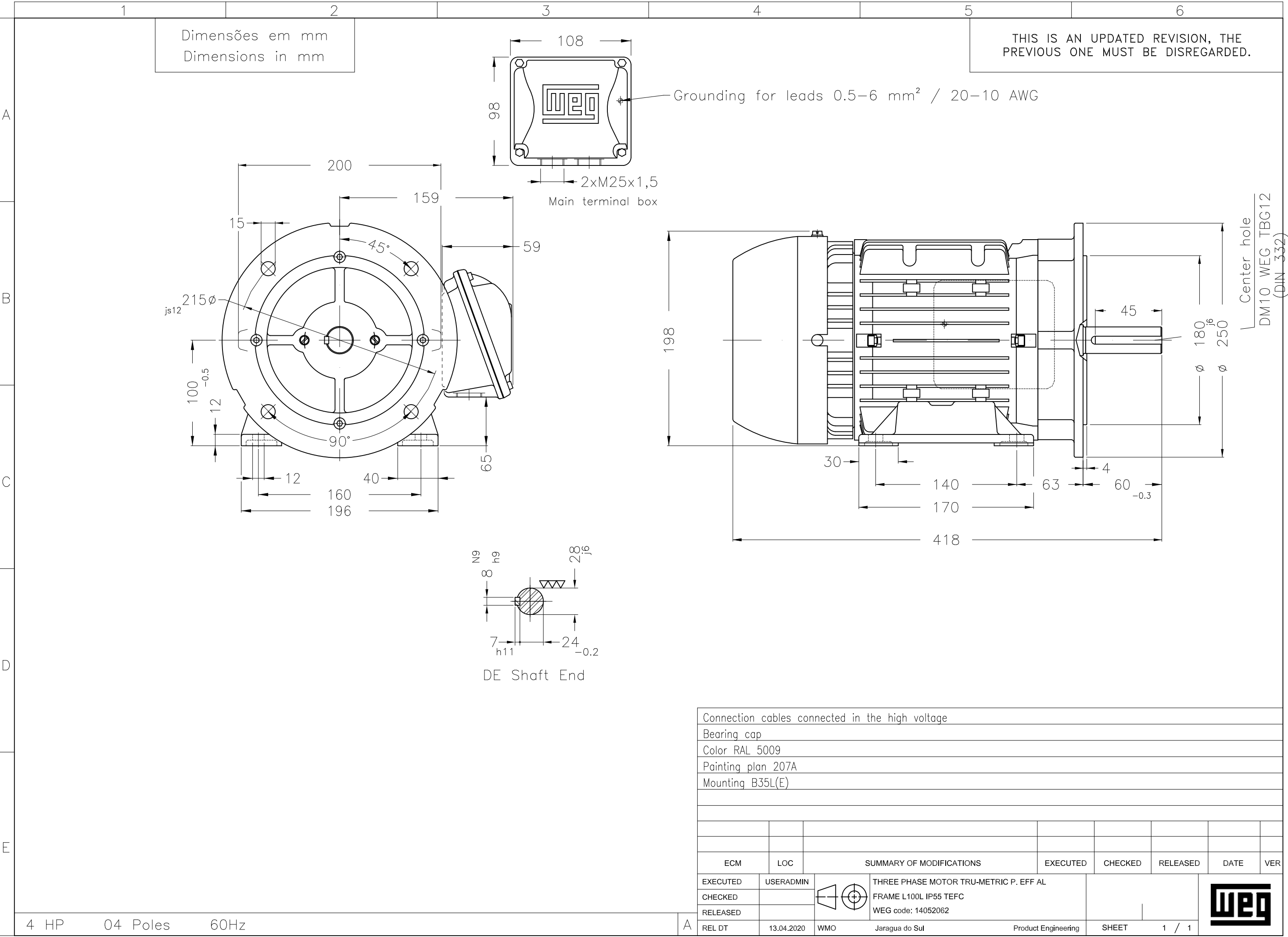
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Subject to change without notice



4 HP

04 Poles

60Hz

A

Connection cables connected in the high voltage

Bearing cap

Color RAL 5009

Painting plan 207A

Mounting B35L(E)

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	USERADMIN	<div><div></div><div></div></div> THREE PHASE MOTOR TRU-METRIC P. EFF AL FRAME L100L IP55 TEFC WEG code: 14052062					
CHECKED							
RELEASED							
REL DT	13.04.2020	WMO	Jaragua do Sul	Product Engineering	SHEET	1 / 1	

ZME

A3

MADE IN BRAZIL

CC029A
Severe Duty

IE3-89.5%



IEC 60034-1

MODEL 00318ET3WAL100LFF-W2

3 ~ ALL100L

AMB 40°C

INS CL. F ENCL TEFC TYPE ET IP55 DUTY CONT.

kW(HP)	Hz	VOLTS	RPM	AMPS	PF	SFA
3.0(4.0)	50	220/380	1430	10.8/6.26	0.83	13.5/7.82
		240/415	1445	10.5/6.07	0.78	13.1/7.59
	60	- /460	1740	- /5.33	0.79	- /6.66

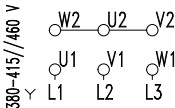
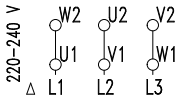
Hz SF CODE ΔT (K) ALT 1000 m.a.s.l.

50 1.25 K 80

60 1.25 L 80

NEMA EFF 60Hz DES

NOM(%) 89.5 3/4(%) 86.5



→ 6206-ZZ

MOBIL POLYREX EM

→ 6206-ZZ

84 Lbs

TEMP CODE T3C

Class I, Div. 2, Gr. B, C and D

Class I, Zone 2, IIC

MOD.TE01A0X0\$0000302307



LR 38324



14052062