

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Multimounting IE3 Three-Phase Product code : 14056488
Catalog # : 00152ET3WAL100LFF-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 : 81.6 lb
Protection degree : IP55	Moment of inertia (J)
Design : N	

Output [HP]	2	2	2
Poles	6	6	6
Frequency [Hz]	50	50	60
Rated voltage [V]	220/380	240/415	460
Rated current [A]	6.28/3.63	6.16/3.56	3.13
L. R. Amperes [A]	32.7/18.9	37.6/21.7	22.8
LRC [A]	5.2	6.1	7.3
No load current [A]	3.30/1.91	3.72/2.15	2.00
Rated speed [RPM]	950	955	1165
Slip [%]	5.00	4.50	2.92
Rated torque [ft.lb]	11.1	11.0	9.02
Locked rotor torque [%]	200	260	300
Breakdown torque [%]	250	310	300
Service factor	1.25	1.25	1.25
Temperature rise	80 K	80 K	80 K
Locked rotor time	0s (cold) 0s (hot)	0s (cold) 0s (hot)	72s (cold) 40s (hot)
Noise level ²			48.0 dB(A)
Efficiency (%)	25%	81.6	84.3
	50%	82.0	85.5
	75%	82.5	87.5
	100%	82.5	88.5
Power Factor	25%	0.33	0.27
	50%	0.56	0.49
	75%	0.69	0.62
	100%	0.76	0.68

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type :	6206 ZZ	6206 ZZ	Max. traction : 162 lb
Sealing :	V'Ring	V'Ring	Max. compression : 244 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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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

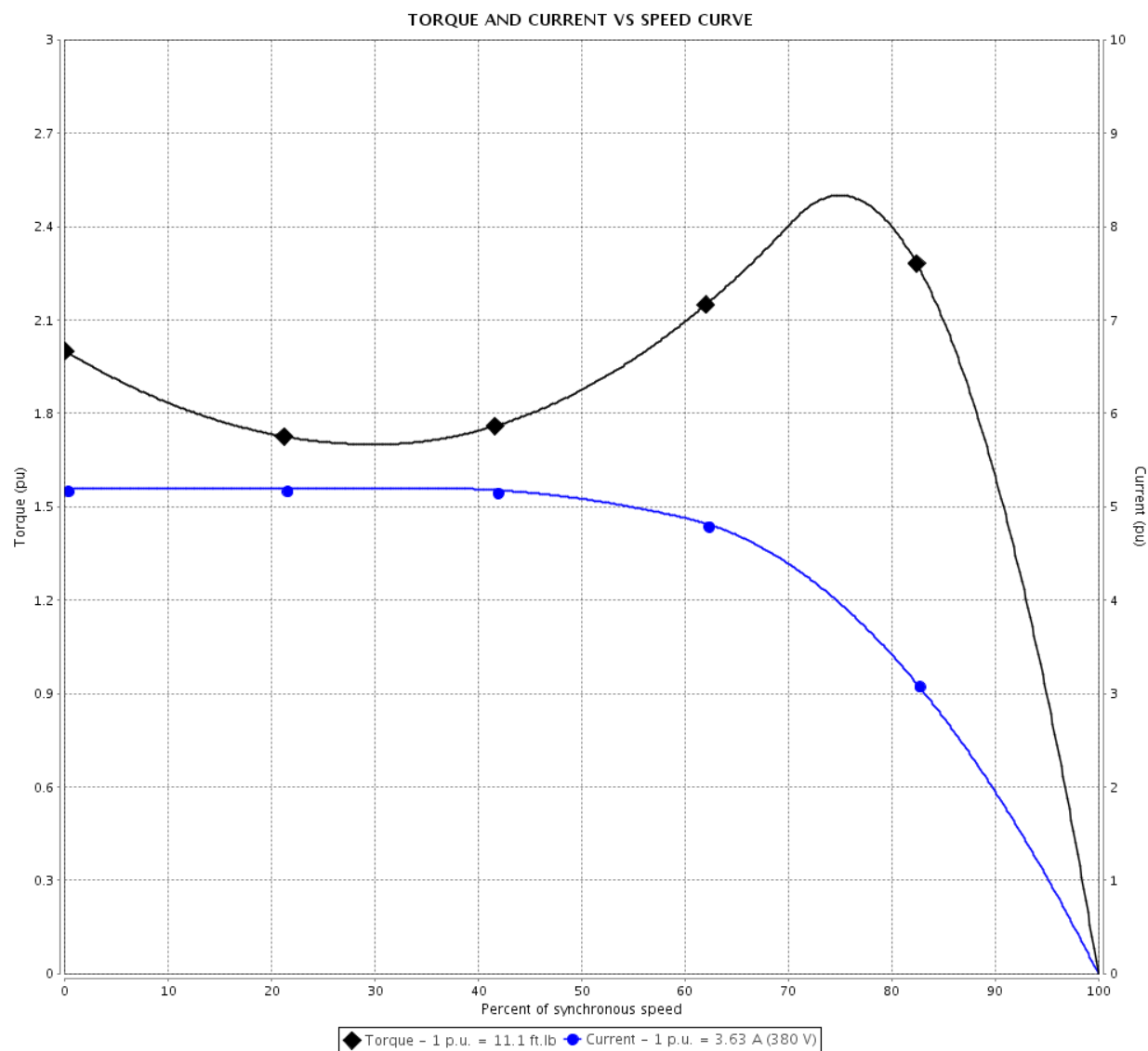
Product line : Multimounting IE3 Three-Phase

Product code :

14056488

Catalog # :

00152ET3WAL100LFF-W2



Performance : 220/380 V 50 Hz 6P

Rated current : 6.28/3.63 A
LRC : 5.2
Rated torque : 11.1 ft.lb
Locked rotor torque : 200 %
Breakdown torque : 250 %
Rated speed : 950 rpm

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

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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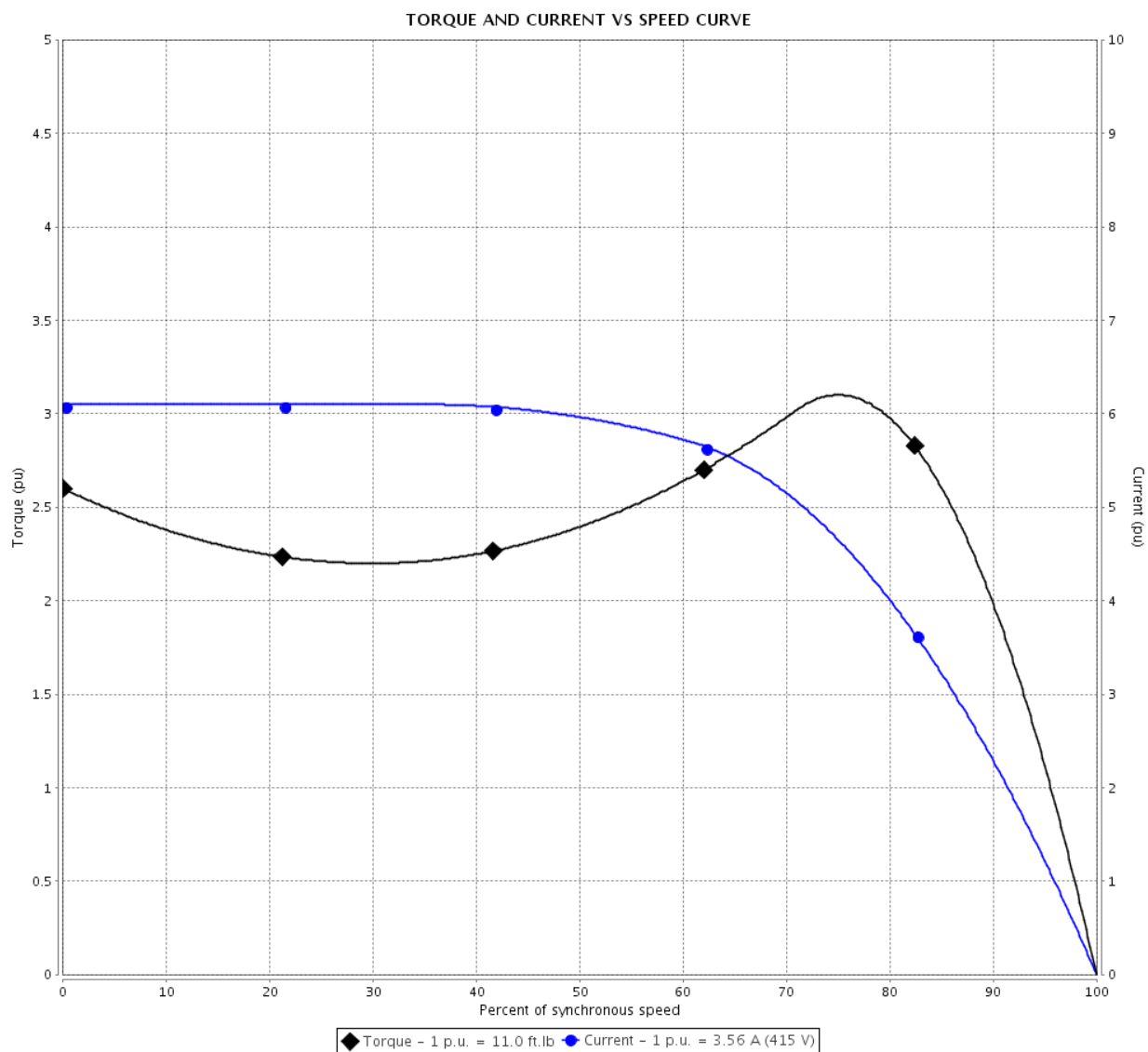
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Product code :

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Catalog # :

00152ET3WAL100LFF-W2



Performance : 240/415 V 50 Hz 6P

Rated current : 6.16/3.56 A
 LRC : 6.1
 Rated torque : 11.0 ft.lb
 Locked rotor torque : 260 %
 Breakdown torque : 310 %
 Rated speed : 955 rpm

Moment of inertia (J)
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 Temperature rise : 80 K
 Design : N

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Three Phase Induction Motor - Squirrel Cage



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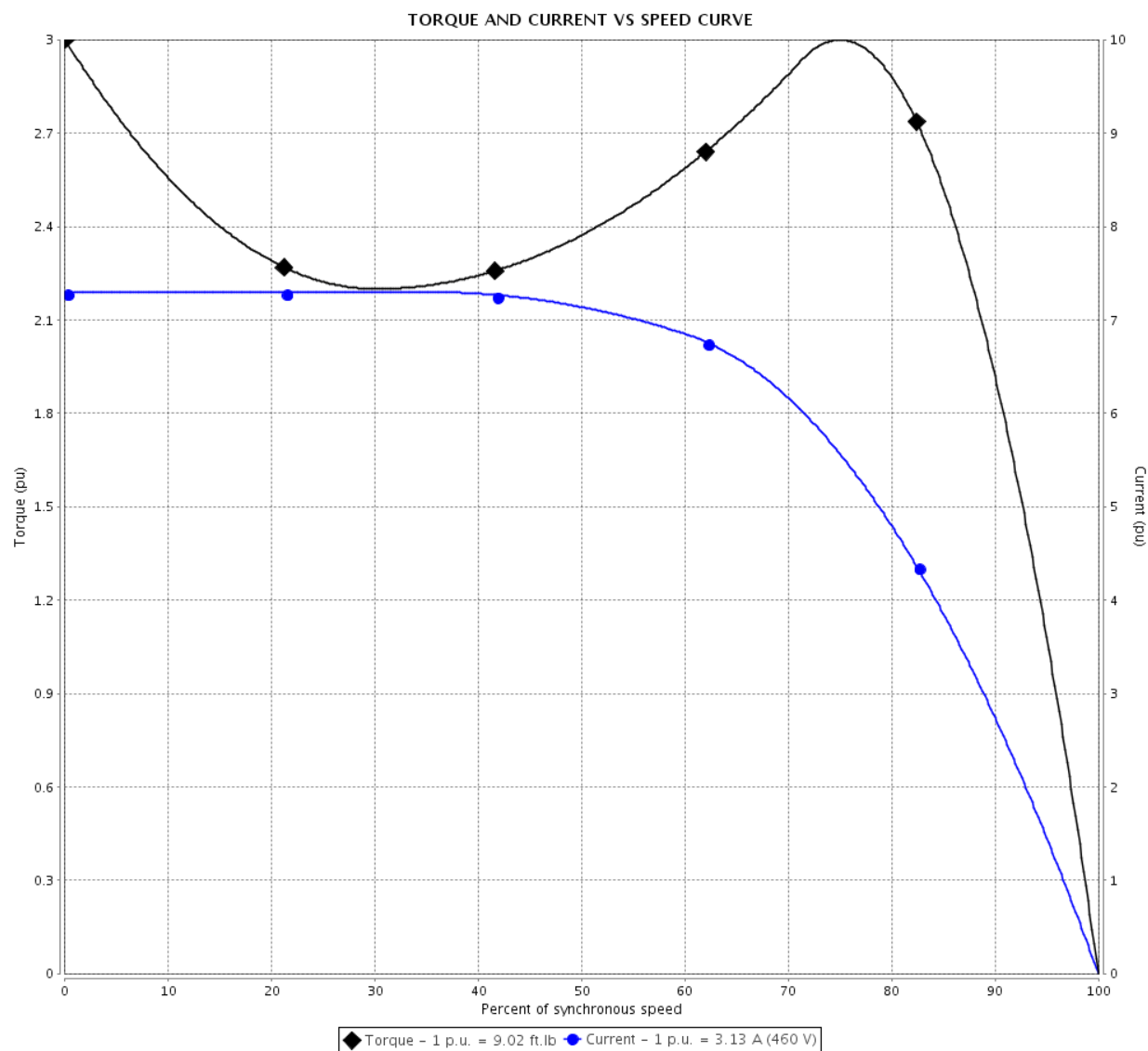
Product line : Multimounting IE3 Three-Phase

Product code :

14056488

Catalog # :

00152ET3WAL100LFF-W2



Performance : 460 V 60 Hz 6P

Rated current : 3.13 A
 LRC : 7.3
 Rated torque : 9.02 ft.lb
 Locked rotor torque : 300 %
 Breakdown torque : 300 %
 Rated speed : 1165 rpm

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

Locked rotor time : 72s (cold) 40s (hot)

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LOAD PERFORMANCE CURVE

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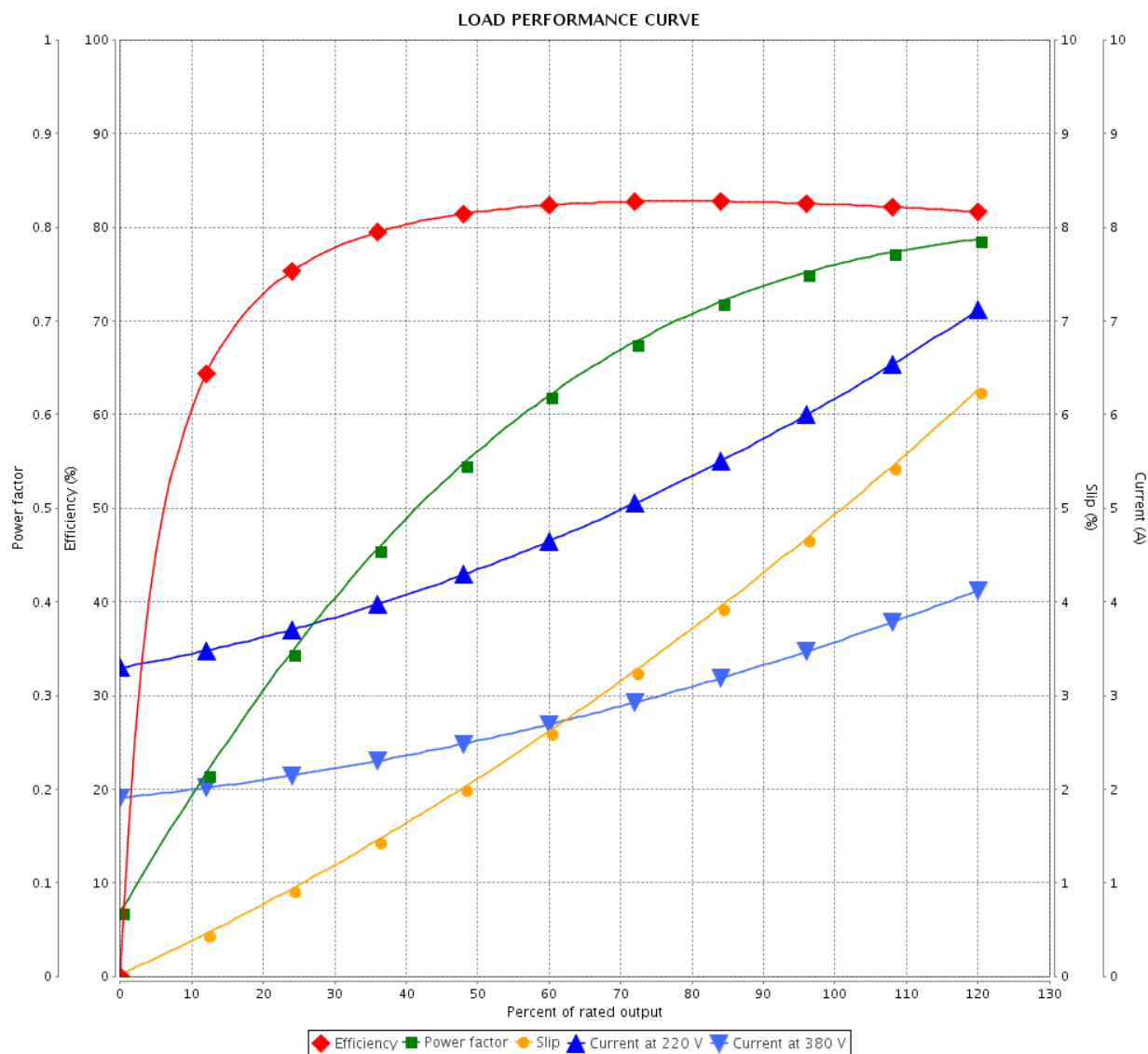
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Performance : 220/380 V 50 Hz 6P

Rated current : 6.28/3.63 A

LRC : 5.2

Rated torque : 11.1 ft.lb

Locked rotor torque : 200 %

Breakdown torque : 250 %

Rated speed : 950 rpm

Moment of inertia (J)

Duty cycle : S1

Insulation class : F

Service factor : 1.25

Temperature rise : 80 K

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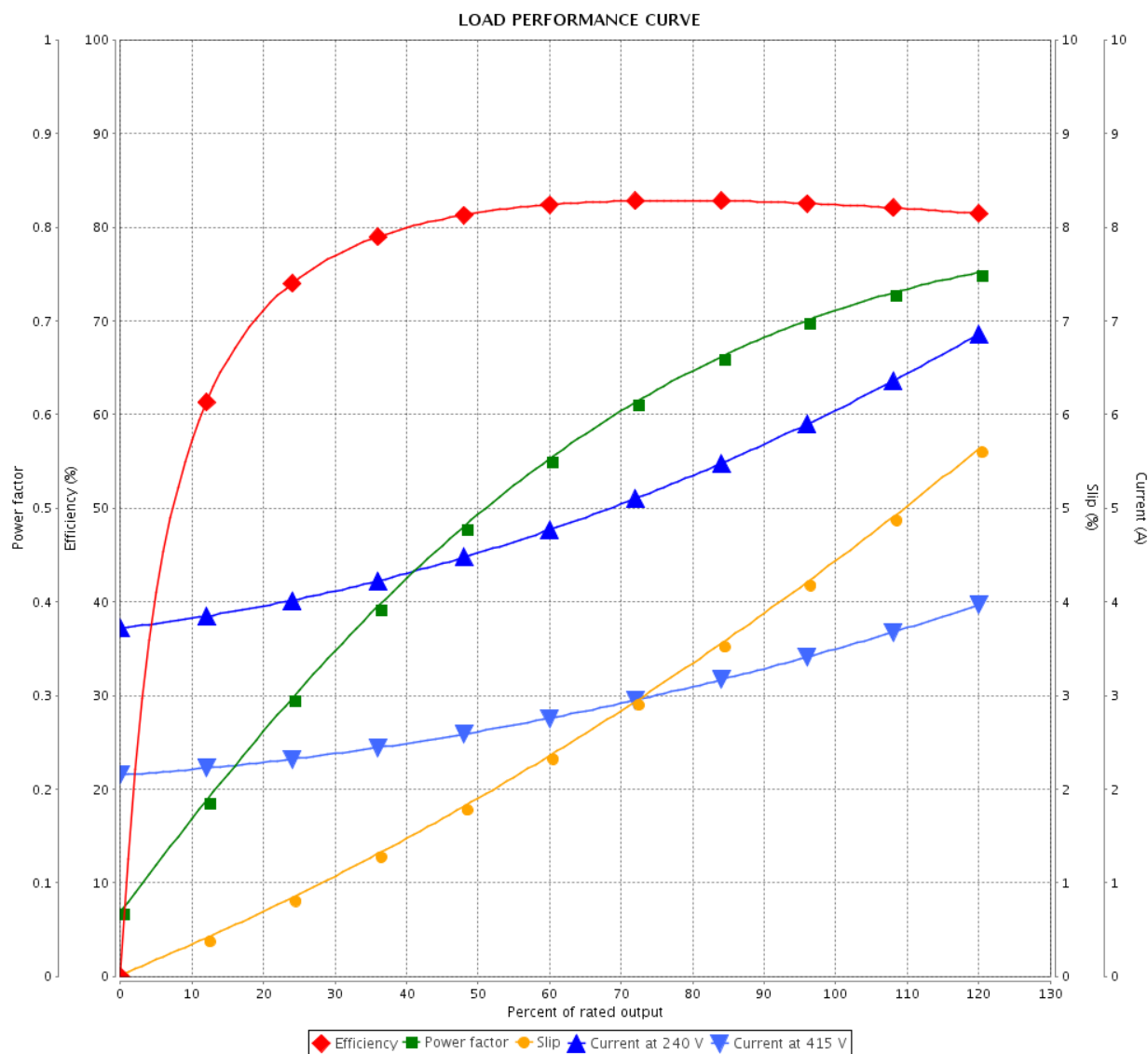
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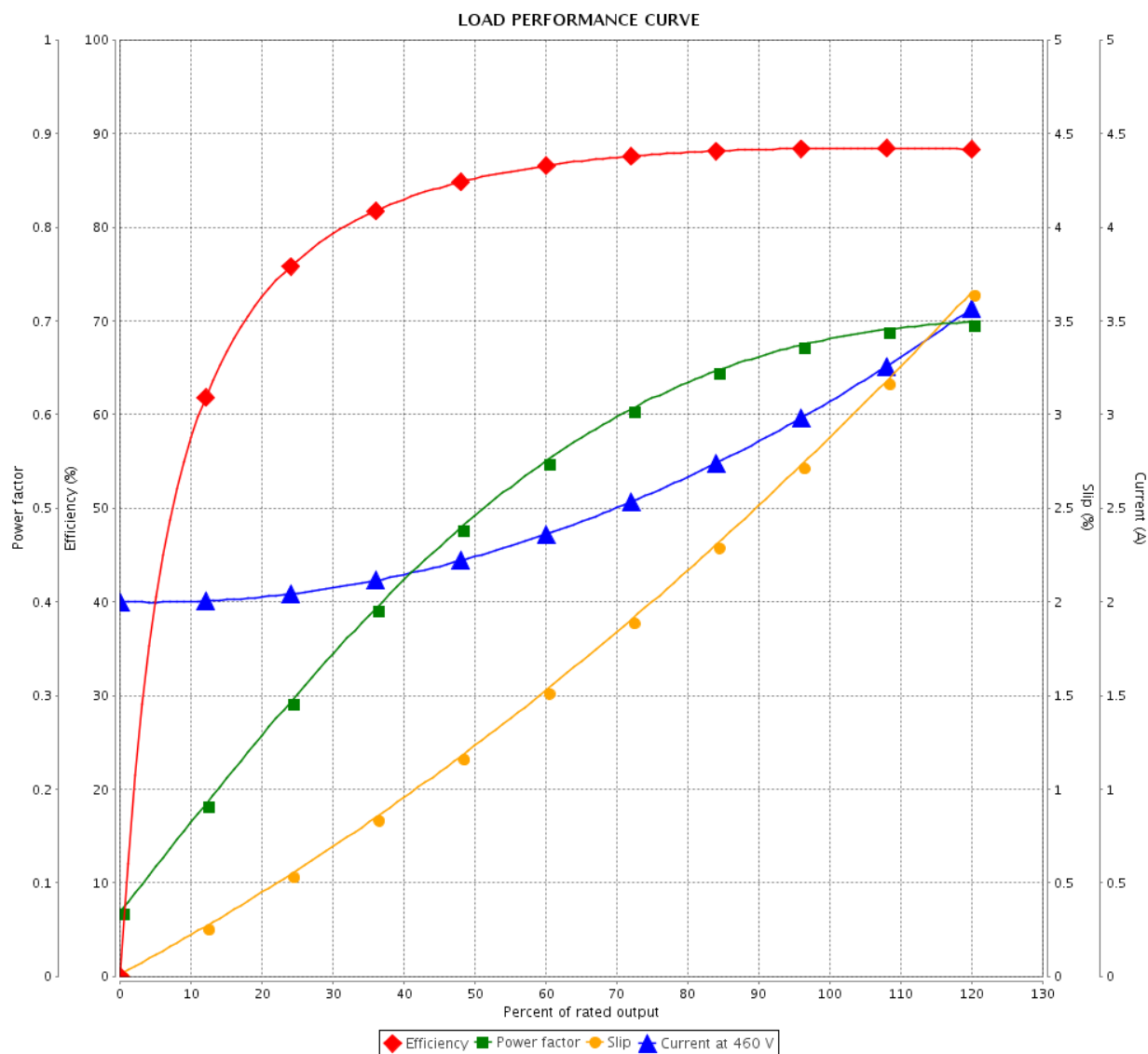
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 Locked rotor torque : 300 %
 Breakdown torque : 300 %
 Rated speed : 1165 rpm

Moment of inertia (J)
 Duty cycle : S1
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



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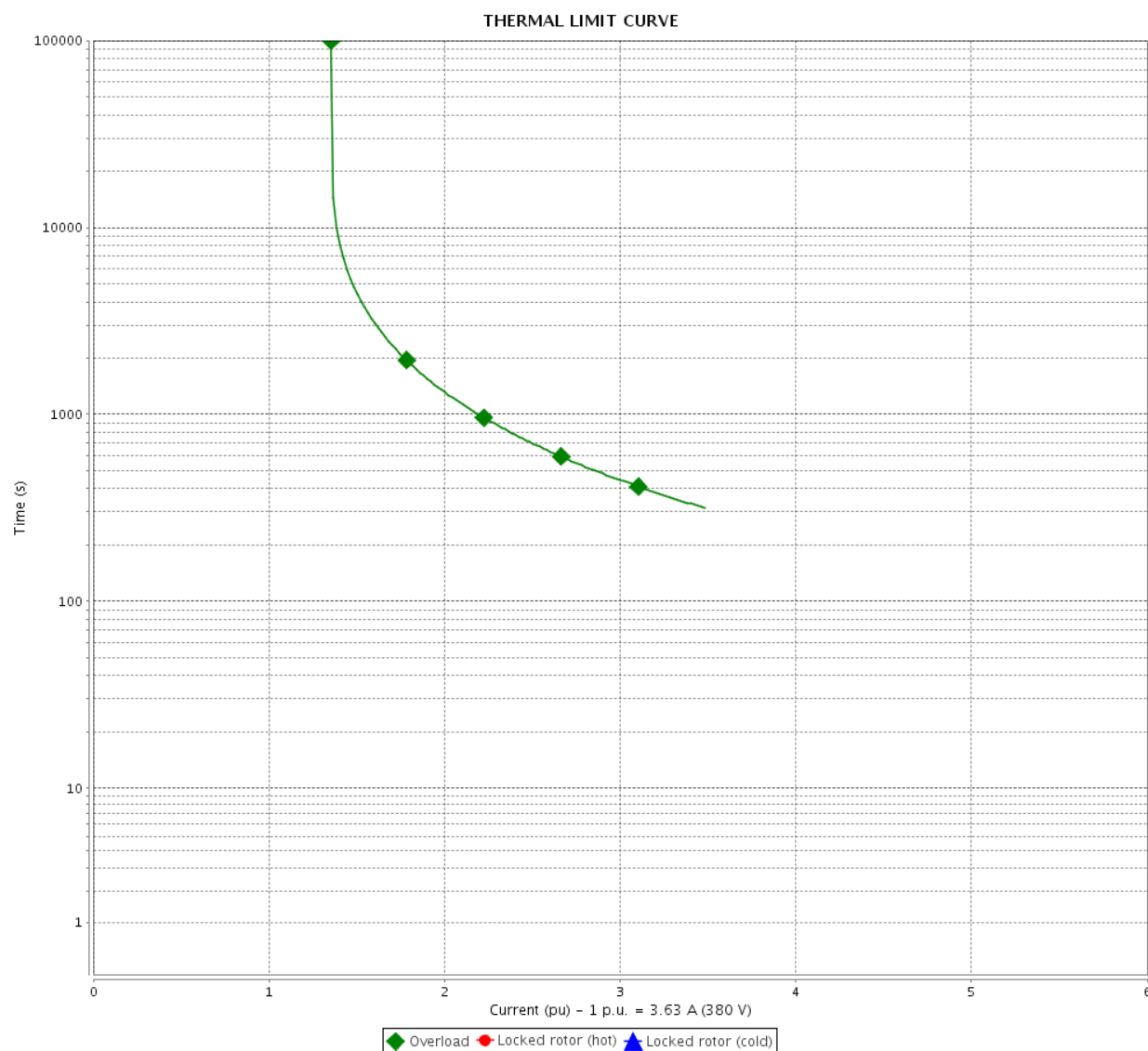
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Rated current : 6.28/3.63 A

LRC : 5.2

Rated torque : 11.1 ft.lb

Locked rotor torque : 200 %

Breakdown torque : 250 %

Rated speed : 950 rpm

Moment of inertia (J)

Duty cycle : S1

Insulation class : F

Service factor : 1.25

Temperature rise : 80 K

Design : N

Heating constant

Cooling constant

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THERMAL LIMIT CURVE

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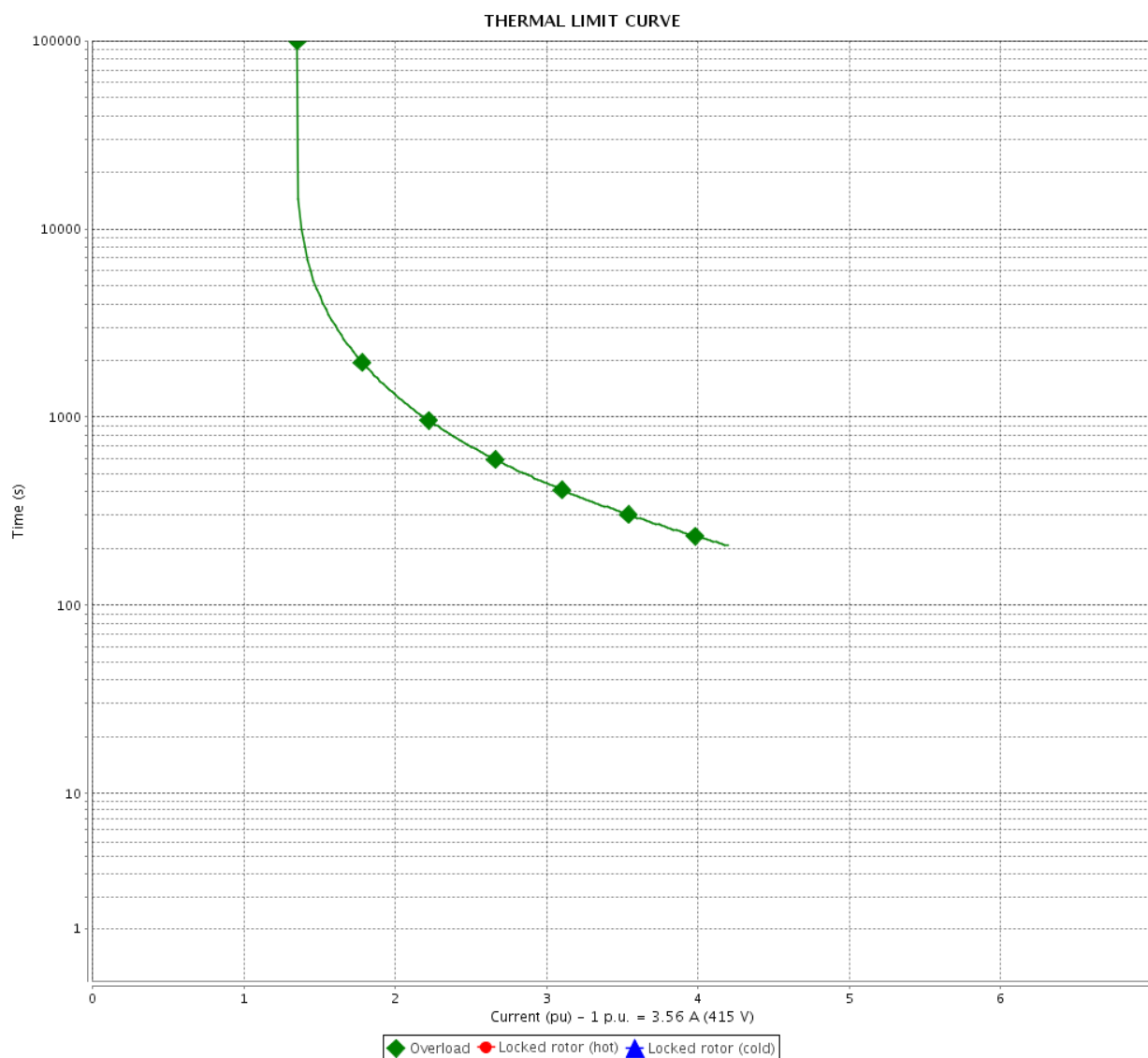
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Insulation class

: F

Service factor

: 1.25

Temperature rise

: 80 K

Design

: N

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Cooling constant

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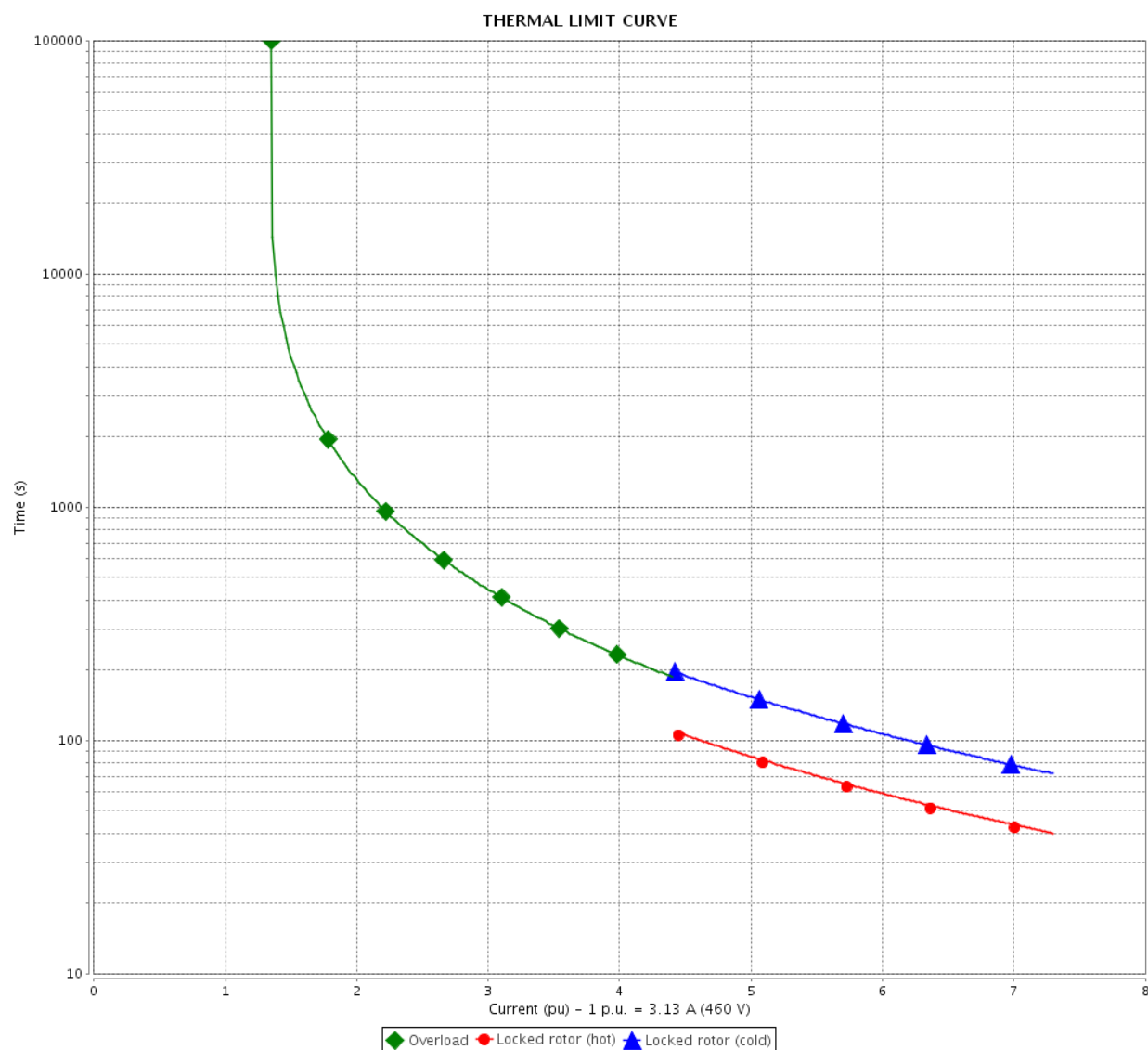
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Moment of inertia (J)
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 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : N

Heating constant

Cooling constant

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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



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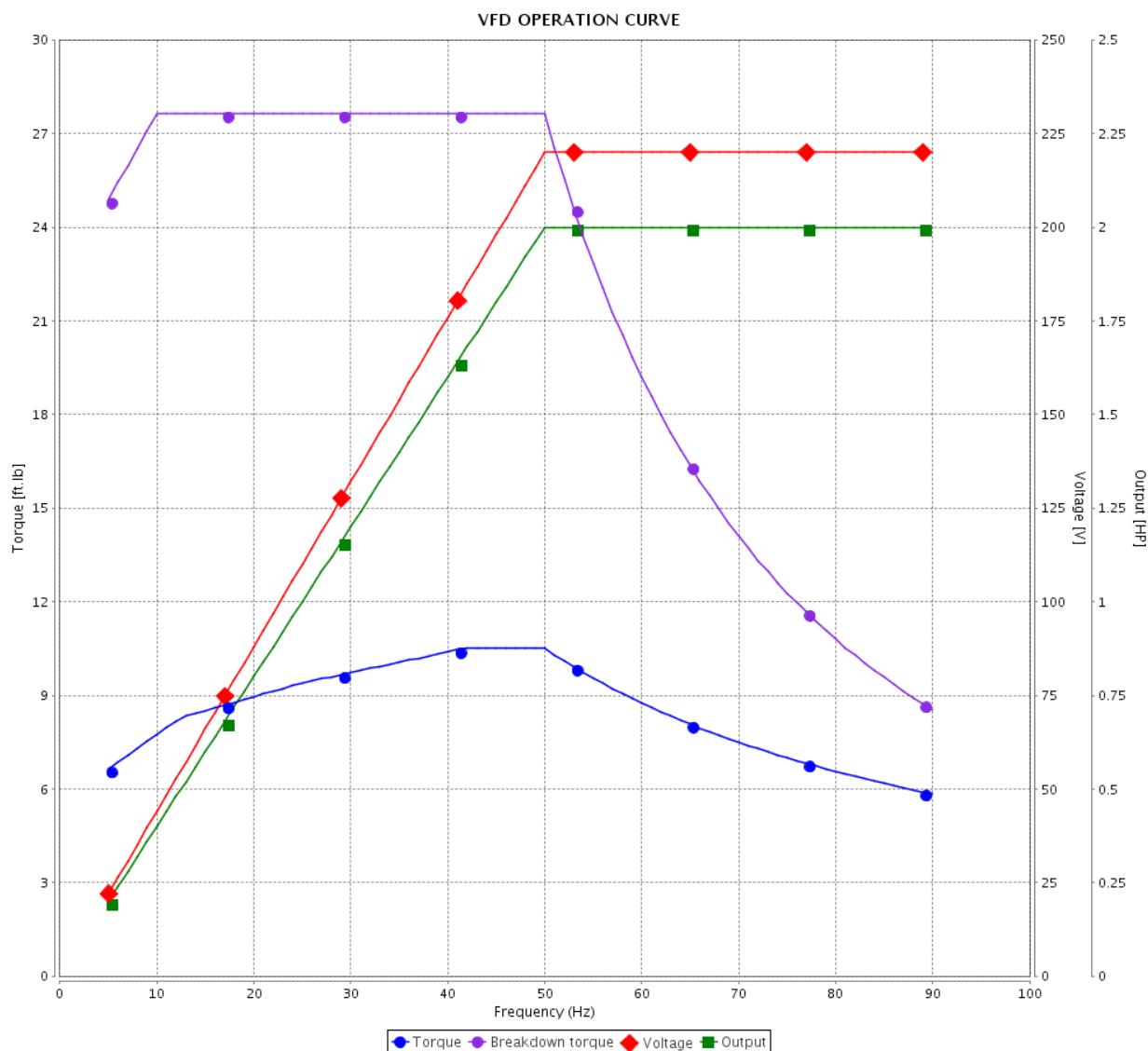
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Duty cycle : S1
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
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VFD OPERATION CURVE

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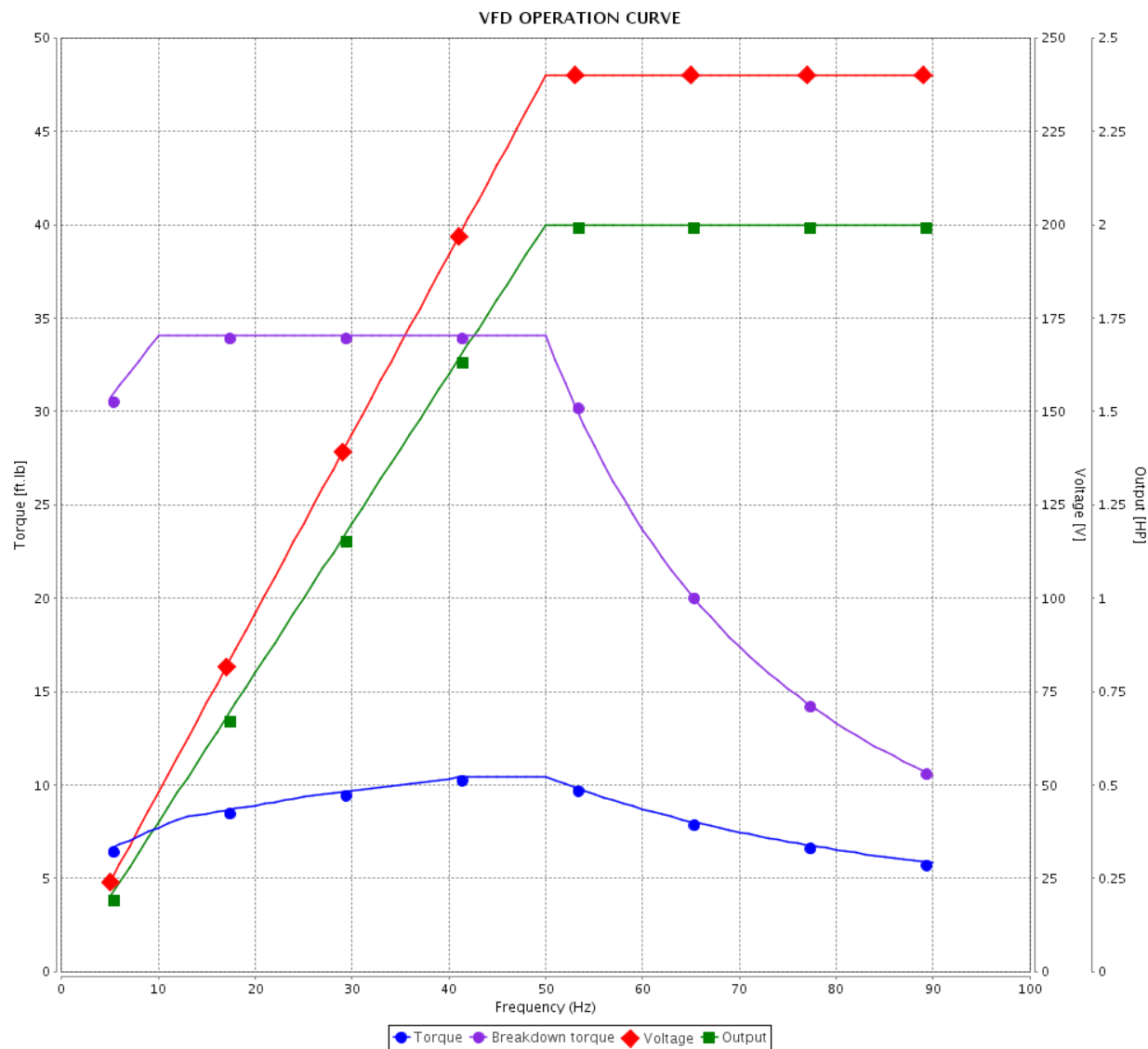
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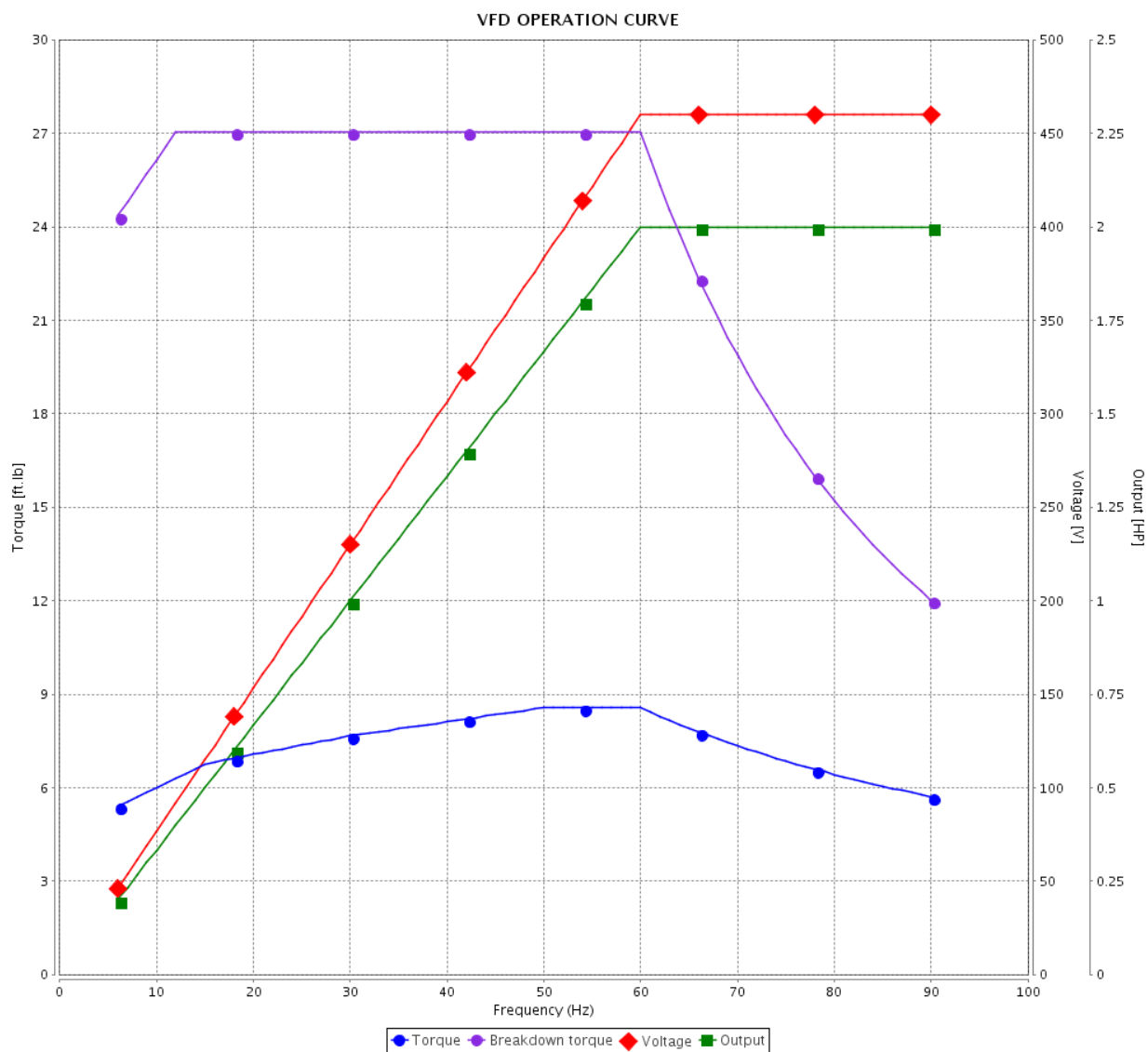
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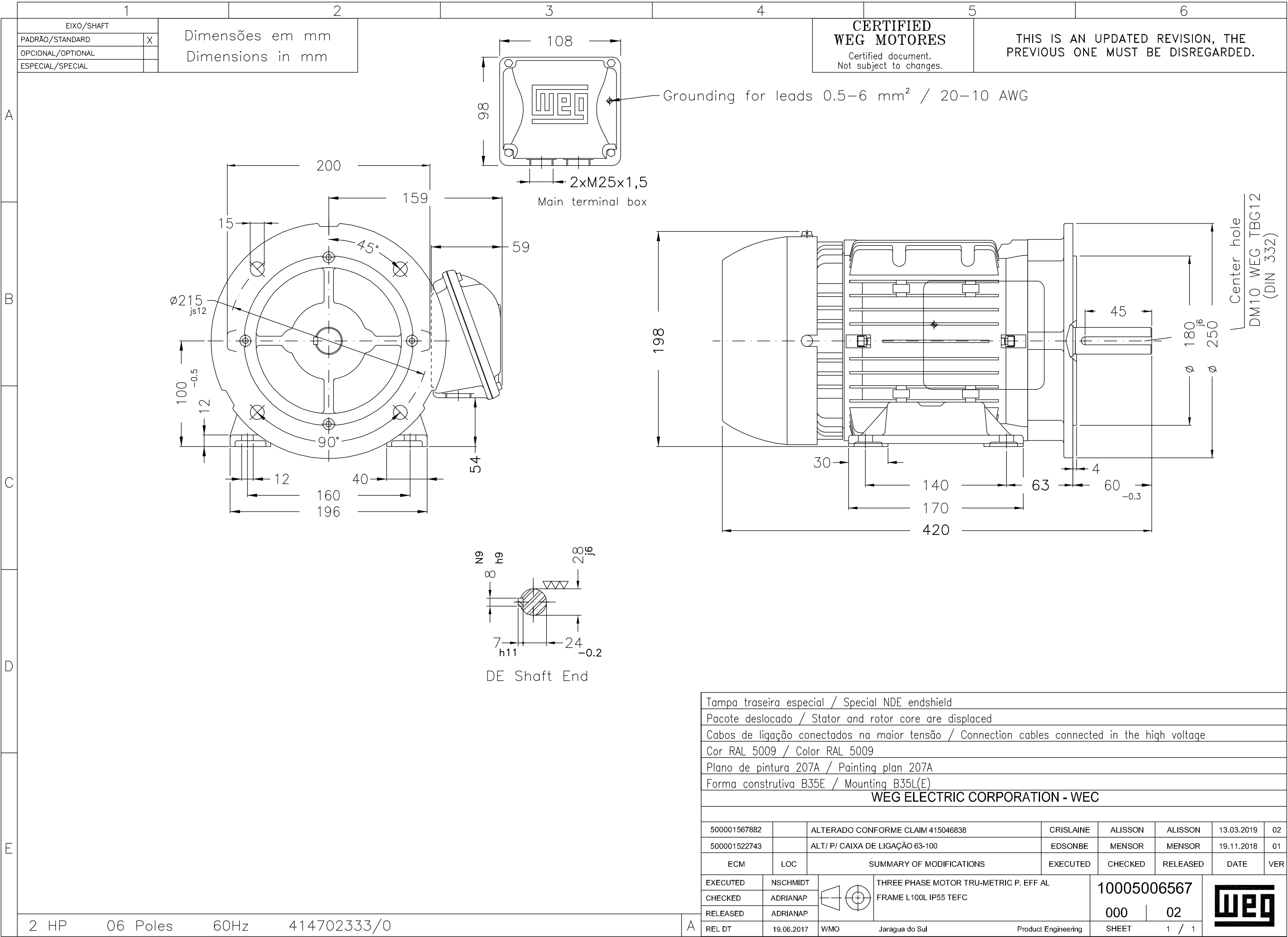
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WEG MOTORES

Certified document.

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RELEASED

A3

CC029A
Severe Duty

IE3-88.5%



IEC 60034-1

MODEL 00152ET3WAL100LFF-W2

3 ~ ALL100L

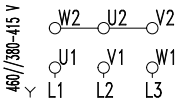
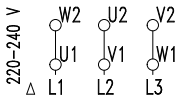
AMB 40°C

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

kW(HP)	Hz	VOLTS	RPM	AMPS	PF	SFA
1.5(2.0)	50	220/380	950	6.28/3.63	0.76	7.85/4.54
		240/415	955	6.16/3.56	0.71	7.70/4.45
	60	/460	1165	- /3.13	0.68	3.91

Hz SF CODE ΔT (k) ALT 1000 m.a.s.l.

50	1.25	J	80	NEMA EFF 60Hz DES NOM(%) 88.5 3/4(%) 87.5
60	1.25	L	80	



→ 6206-ZZ

MOBIL POLYREX EM

→ 6206-ZZ

82 Lbs

TEMP CODE T3C

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

Class I, Zone 2, IIC

MOD.TE01A0X0\$0000901746



LR 38324

