

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer							
Product line	: W40 NEMA Premium Efficiency Three-Phase	Product code	: 13593623				
		Catalog #	: 40036OT3G447/9TS-W40				
Frame	: 447/9TS	Cooling method	: IC01 - ODP				
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	: 2012 lb				
Protection degree	: IP23	Moment of inertia (J)	: 39.1 sq.ft.lb				
Design	: A						
Output [HP]	400	350	350	350	400	400	400
Poles	2	2	2	2	2	2	2
Frequency [Hz]	60	50	50	50	50	50	50
Rated voltage [V]	460	380	400	415	380	400	415
Rated current [A]	442	458	440	429	533	510	497
L. R. Amperes [A]	2873	2794	2992	3132	2825	3009	3181
LRC [A]	6.5x(Code G)	6.1x(Code F)	6.8x(Code G)	7.3x(Code H)	5.3x(Code E)	5.9x(Code F)	6.4x(Code G)
No load current [A]	100	95.0	108	118	95.0	108	118
Rated speed [RPM]	3565	2960	2965	2970	2955	2960	2965
Slip [%]	0.97	1.33	1.17	1.00	1.50	1.33	1.17
Rated torque [ft.lb]	589	621	620	619	711	710	708
Locked rotor torque [%]	170	160	170	180	140	150	160
Breakdown torque [%]	250	229	250	270	200	220	240
Service factor	1.15	1.15	1.15	1.15	1.15	1.15	1.15
Temperature rise	80 K	80 K	80 K	80 K	80 K	80 K	80 K
Locked rotor time	25s (cold) 14s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)
Noise level ²	87.0 dB(A)						
Efficiency (%)	25%	95.3	94.8	94.6	94.5	95.6	95.3
	50%	95.4	95.2	95.0	94.9	95.4	95.4
	75%	95.8	95.5	95.5	95.5	95.4	95.4
	100%	95.8	95.8	95.8	95.8	95.0	95.4
Power Factor	25%	0.61	0.62	0.58	0.55	0.66	0.62
	50%	0.83	0.82	0.80	0.78	0.85	0.83
	75%	0.88	0.88	0.87	0.86	0.89	0.88
	100%	0.89	0.90	0.89	0.88	0.90	0.89
Bearing type	: 6314 C3	Drive end	Non drive end	Foundation loads			
Sealing	: Without	Without	Without	Max. traction	: 3527 lb		
		Bearing Seal	Bearing Seal	Max. compression	: 5538 lb		
Lubrication interval	: 14418 h	14418 h	14418 h				
Lubricant amount	: 27 g	27 g	27 g				
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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Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermistor - 2 wires	1 x Phase	155 °C

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TORQUE AND CURRENT VS SPEED CURVE



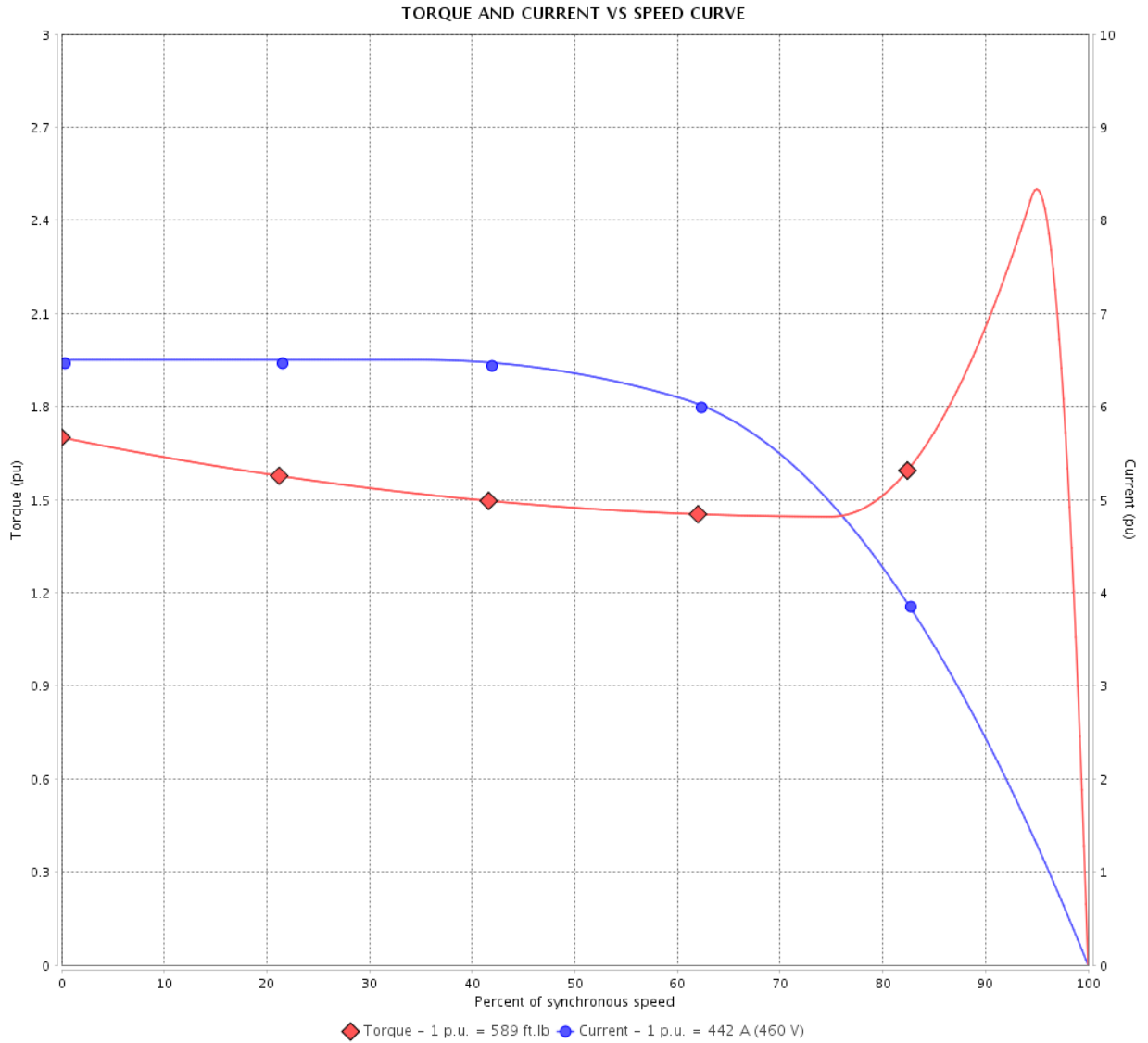
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Customer :

Product line : W40 NEMA Premium Efficiency
Three-Phase

Product code : 13593623

Catalog # : 40036OT3G447/9TS-W40



Performance : 460 V 60 Hz 2P

Rated current	: 442 A	Moment of inertia (J)	: 39.1 sq.ft.lb
LRC	: 6.5	Duty cycle	: Cont.(S1)
Rated torque	: 589 ft.lb	Insulation class	: F
Locked rotor torque	: 170 %	Service factor	: 1.15
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 3565 rpm	Design	: A

Locked rotor time : 25s (cold) 14s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

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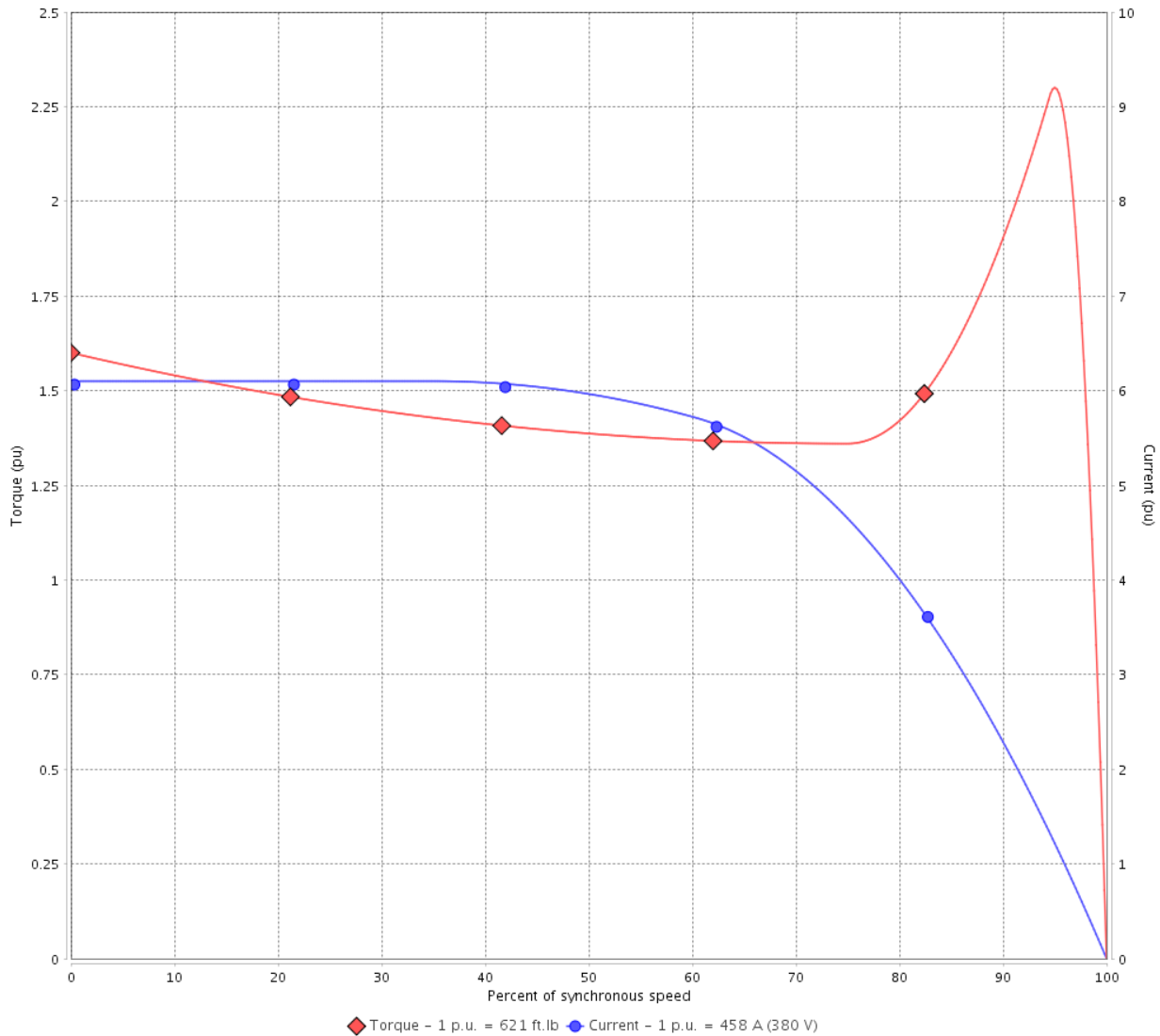
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TORQUE AND CURRENT VS SPEED CURVE



Performance : 380 V 50 Hz 2P IE3

Rated current	: 458 A	Moment of inertia (J)	: 39.1 sq.ft.lb
LRC	: 6.1	Duty cycle	: Cont.(S1)
Rated torque	: 621 ft.lb	Insulation class	: F
Locked rotor torque	: 160 %	Service factor	: 1.15
Breakdown torque	: 229 %	Temperature rise	: 80 K
Rated speed	: 2960 rpm	Design	: A

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

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TORQUE AND CURRENT VS SPEED CURVE



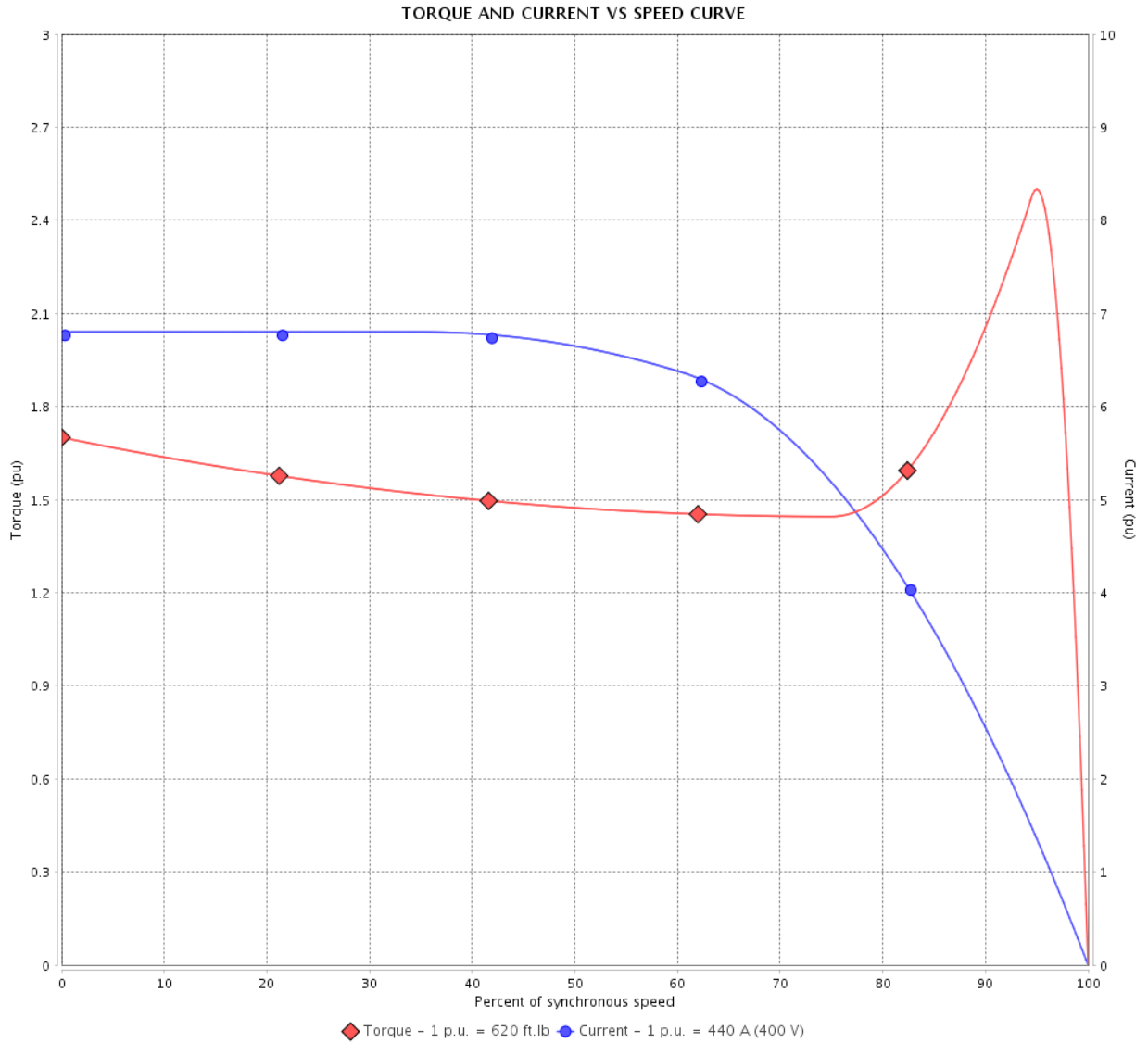
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Product code : 13593623

Catalog # : 40036OT3G447/9TS-W40



Performance : 400 V 50 Hz 2P IE3

Rated current	: 440 A	Moment of inertia (J)	: 39.1 sq.ft.lb
LRC	: 6.8	Duty cycle	: Cont.(S1)
Rated torque	: 620 ft.lb	Insulation class	: F
Locked rotor torque	: 170 %	Service factor	: 1.15
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 2965 rpm	Design	: A

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

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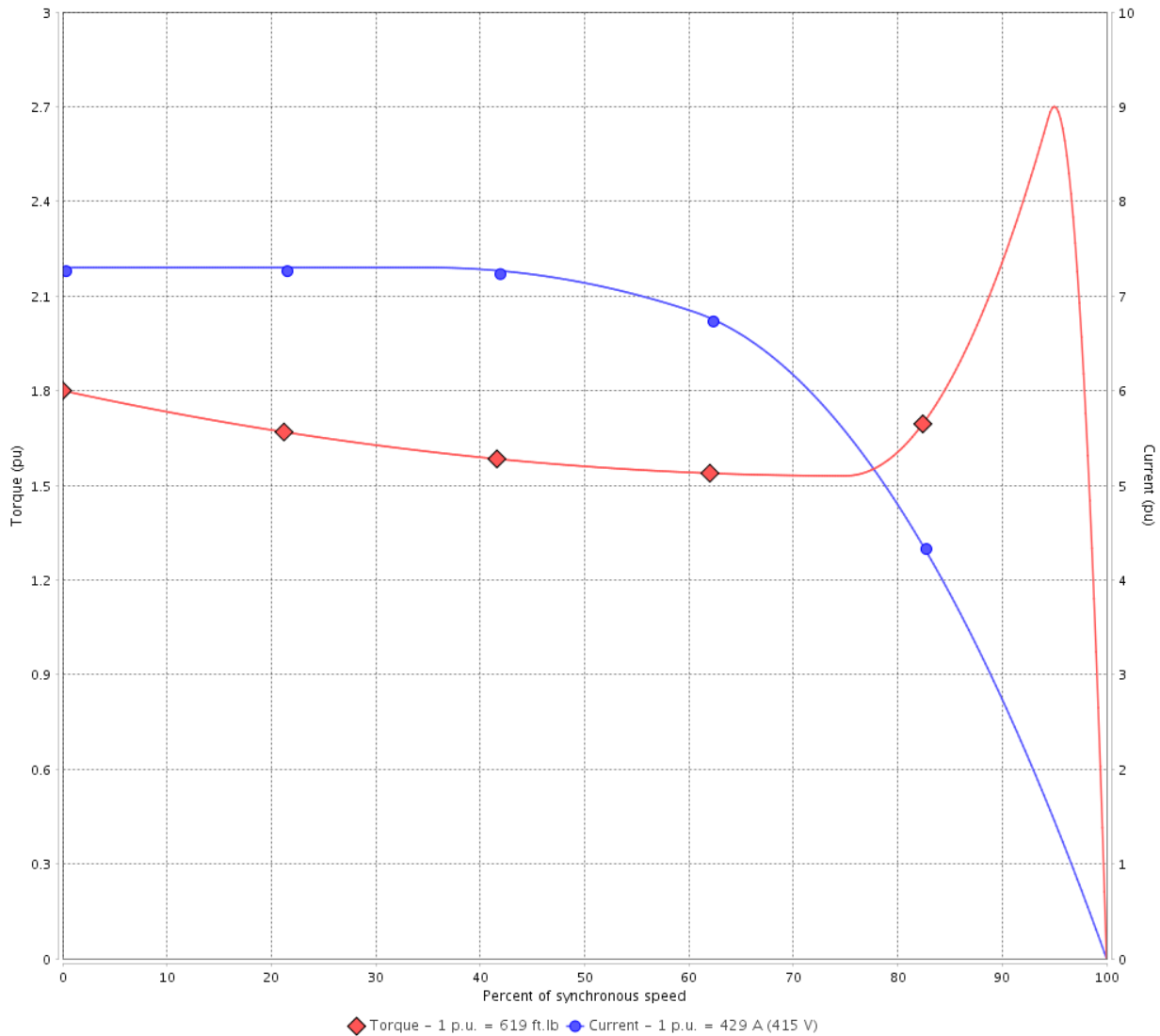
Customer :

Product line : W40 NEMA Premium Efficiency
Three-Phase

Product code : 13593623

Catalog # : 400360T3G447/9TS-W40

TORQUE AND CURRENT VS SPEED CURVE



Performance : 415 V 50 Hz 2P IE3

Rated current	: 429 A	Moment of inertia (J)	: 39.1 sq.ft.lb
LRC	: 7.3	Duty cycle	: Cont.(S1)
Rated torque	: 619 ft.lb	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.15
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 2970 rpm	Design	: A

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

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TORQUE AND CURRENT VS SPEED CURVE



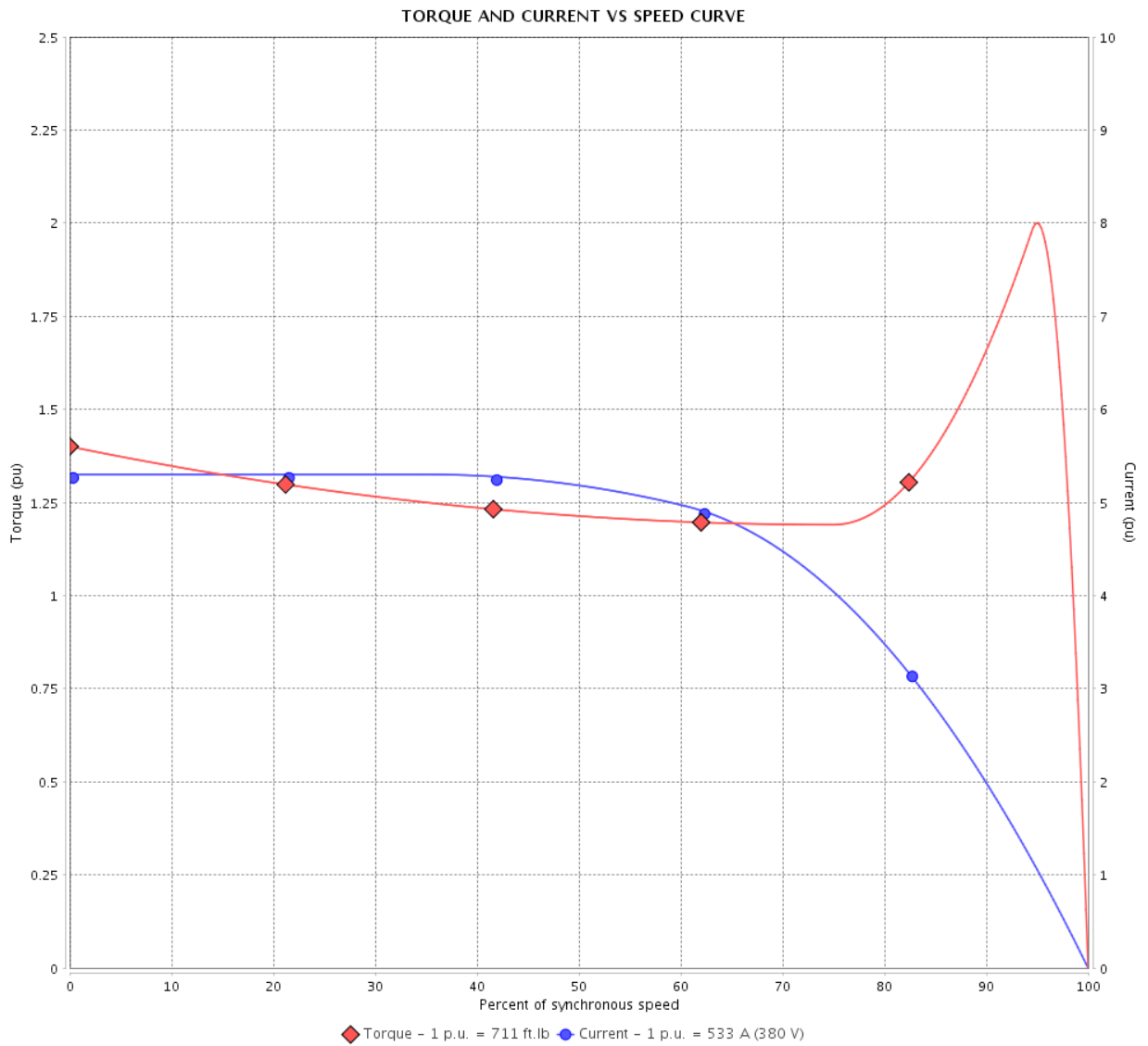
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Catalog # : 40036OT3G447/9TS-W40



Performance : 380 V 50 Hz 2P IE2

Rated current	: 533 A	Moment of inertia (J)	: 39.1 sq.ft.lb
LRC	: 5.3	Duty cycle	: Cont.(S1)
Rated torque	: 711 ft.lb	Insulation class	: F
Locked rotor torque	: 140 %	Service factor	: 1.15
Breakdown torque	: 200 %	Temperature rise	: 80 K
Rated speed	: 2955 rpm	Design	: A

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

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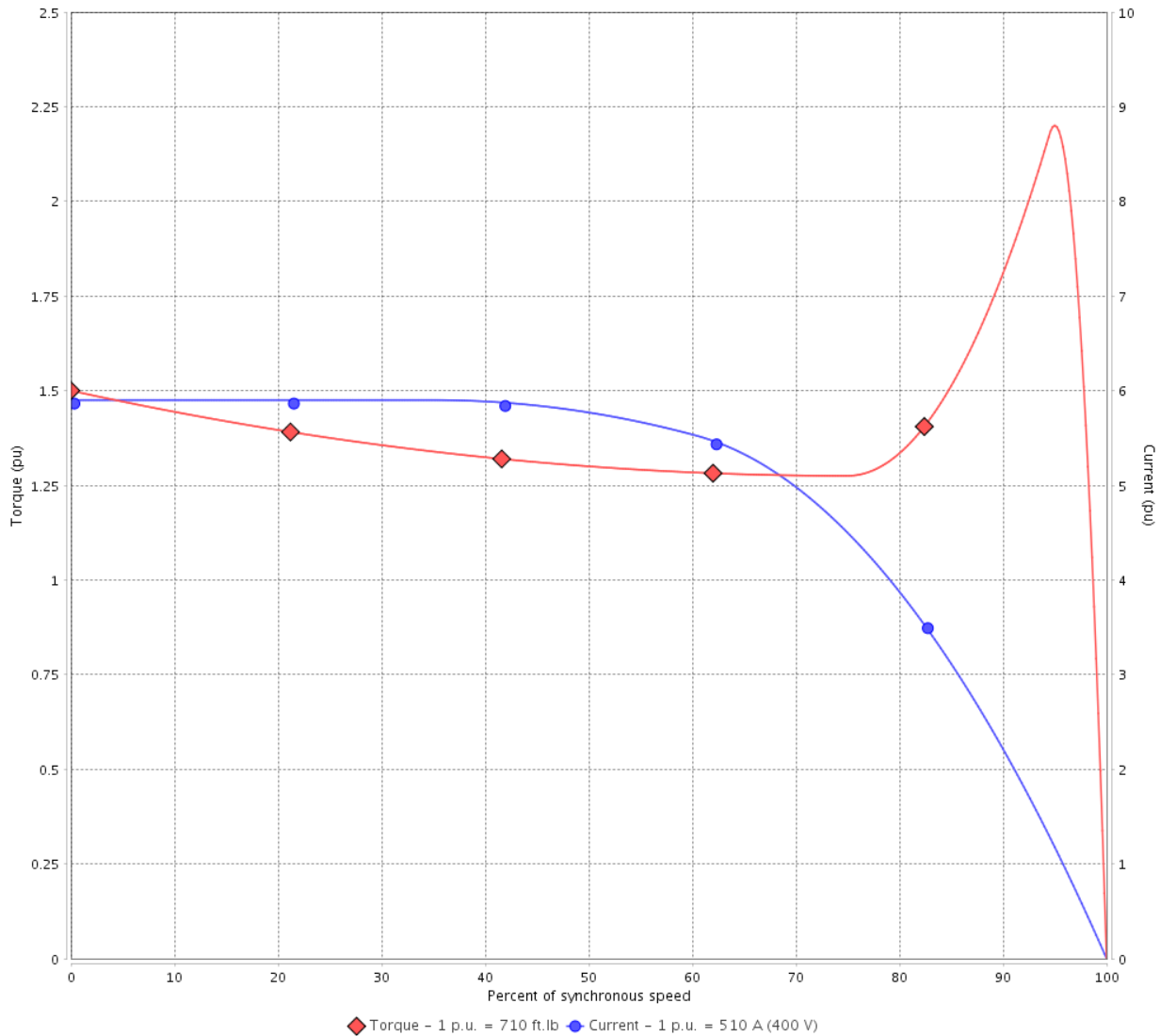
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Catalog # : 400360T3G447/9TS-W40

TORQUE AND CURRENT VS SPEED CURVE



Performance : 400 V 50 Hz 2P IE2

Rated current	: 510 A	Moment of inertia (J)	: 39.1 sq.ft.lb
LRC	: 5.9	Duty cycle	: Cont.(S1)
Rated torque	: 710 ft.lb	Insulation class	: F
Locked rotor torque	: 150 %	Service factor	: 1.15
Breakdown torque	: 220 %	Temperature rise	: 80 K
Rated speed	: 2960 rpm	Design	: A

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

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TORQUE AND CURRENT VS SPEED CURVE



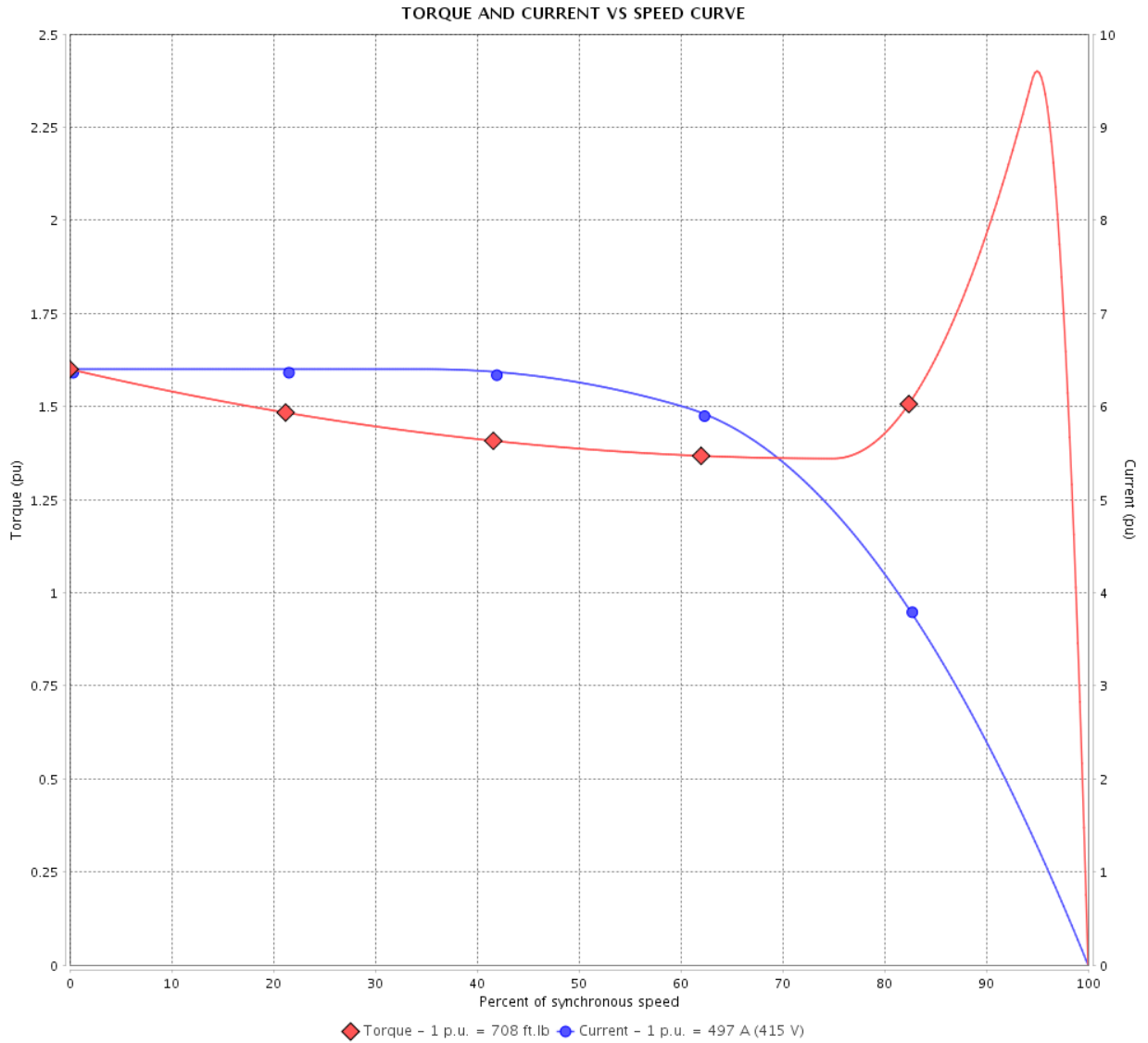
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Performance : 415 V 50 Hz 2P IE2

Rated current	: 497 A	Moment of inertia (J)	: 39.1 sq.ft.lb
LRC	: 6.4	Duty cycle	: Cont.(S1)
Rated torque	: 708 ft.lb	Insulation class	: F
Locked rotor torque	: 160 %	Service factor	: 1.15
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 2965 rpm	Design	: A

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

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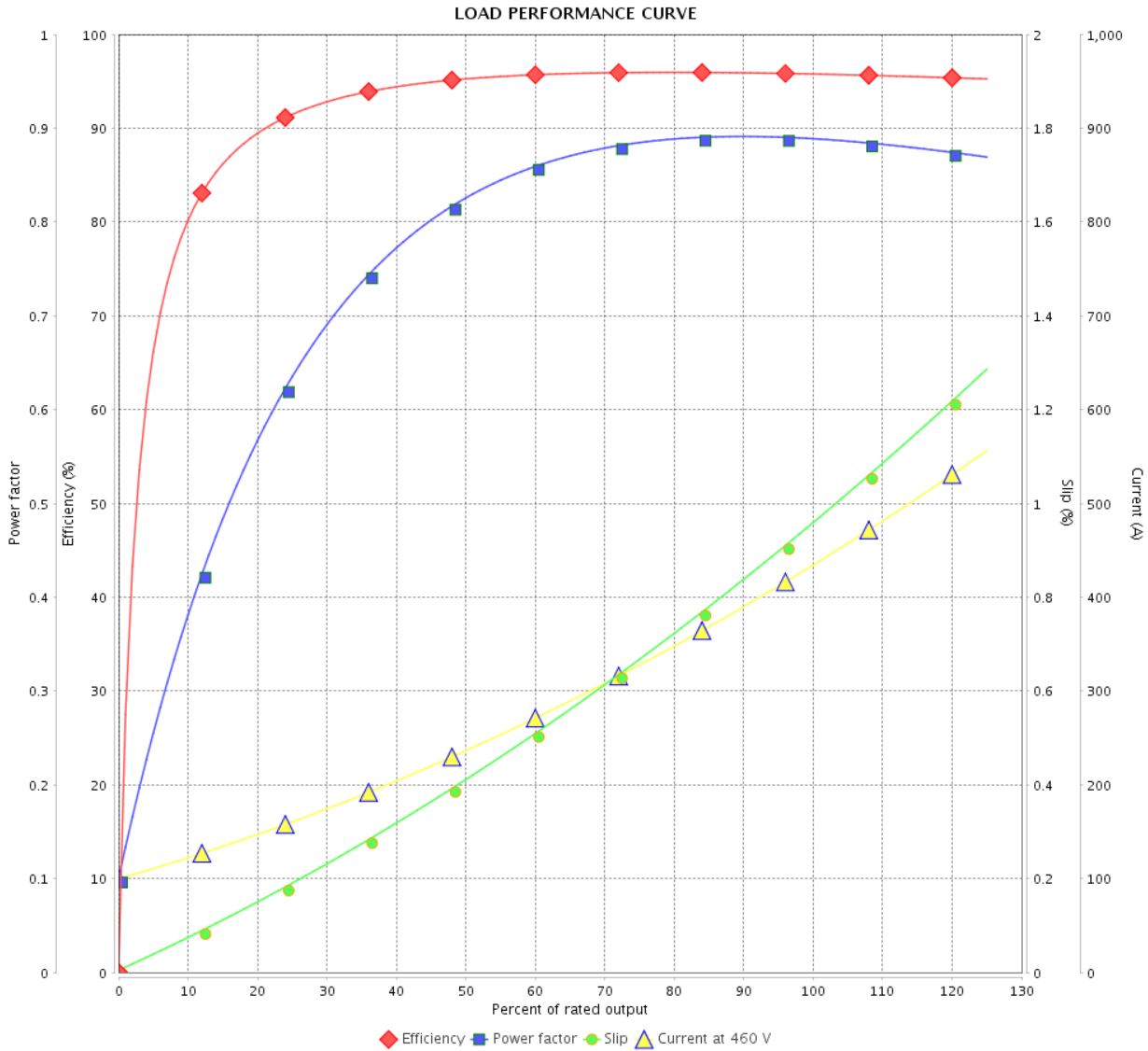


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Performance : 460 V 60 Hz 2P

Rated current : 442 A
 LRC : 6.5
 Rated torque : 589 ft.lb
 Locked rotor torque : 170 %
 Breakdown torque : 250 %
 Rated speed : 3565 rpm

Moment of inertia (J) : 39.1 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : A

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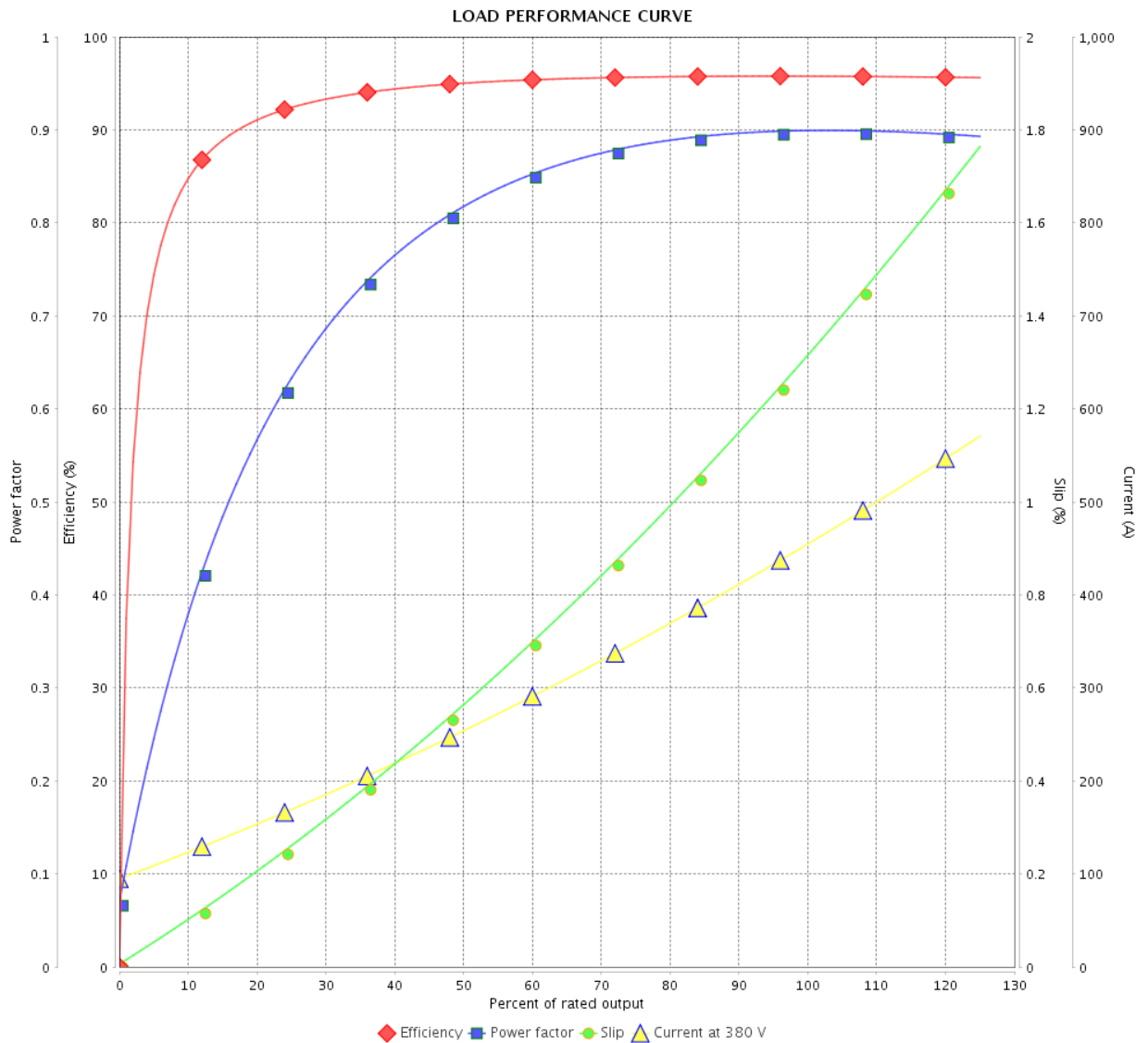


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Rated current : 458 A
 LRC : 6.1
 Rated torque : 621 ft.lb
 Locked rotor torque : 160 %
 Breakdown torque : 229 %
 Rated speed : 2960 rpm

Moment of inertia (J) : 39.1 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : A

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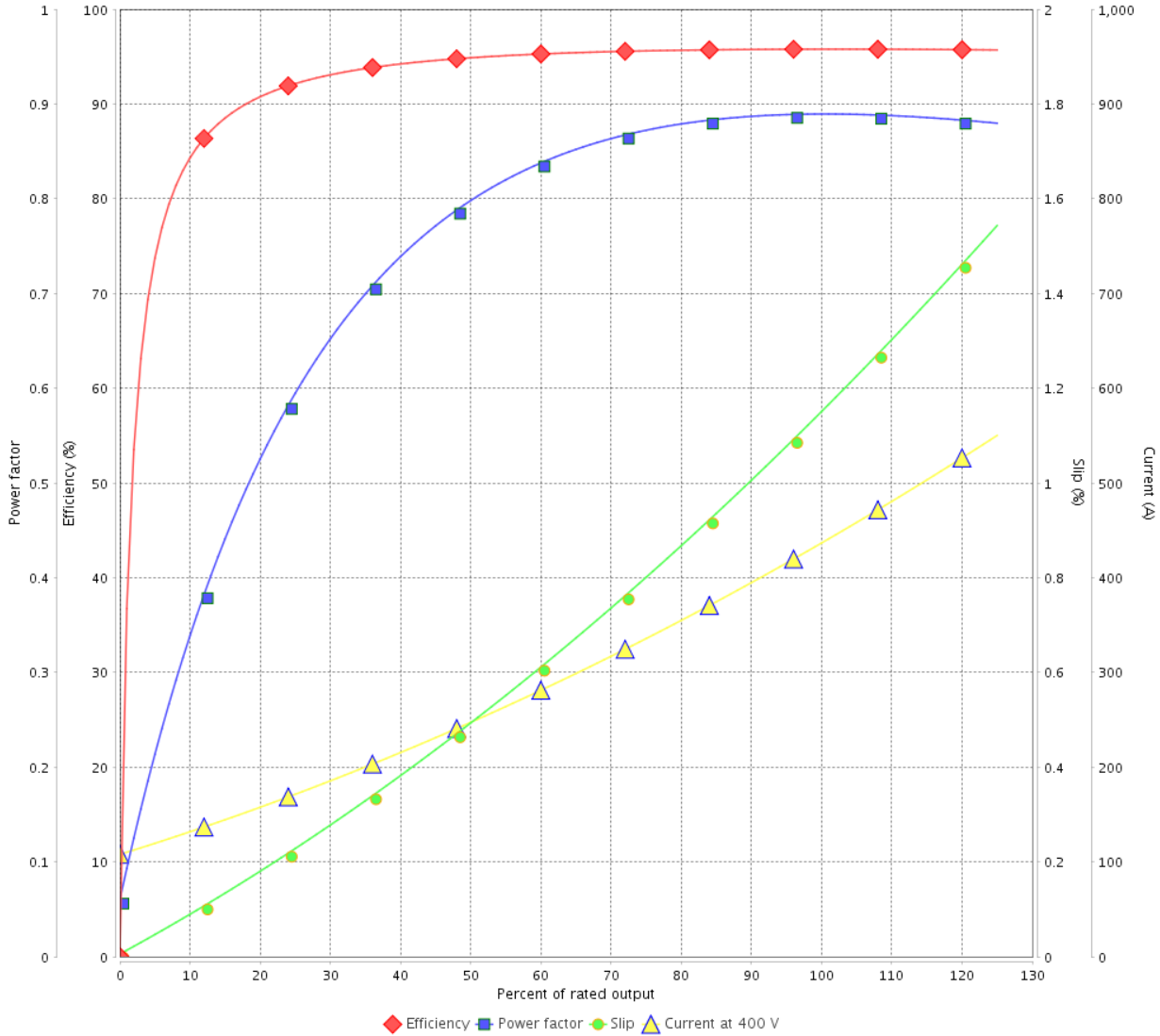
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Performance : 400 V 50 Hz 2P IE3

Rated current : 440 A
 LRC : 6.8
 Rated torque : 620 ft.lb
 Locked rotor torque : 170 %
 Breakdown torque : 250 %
 Rated speed : 2965 rpm

Moment of inertia (J) : 39.1 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : A

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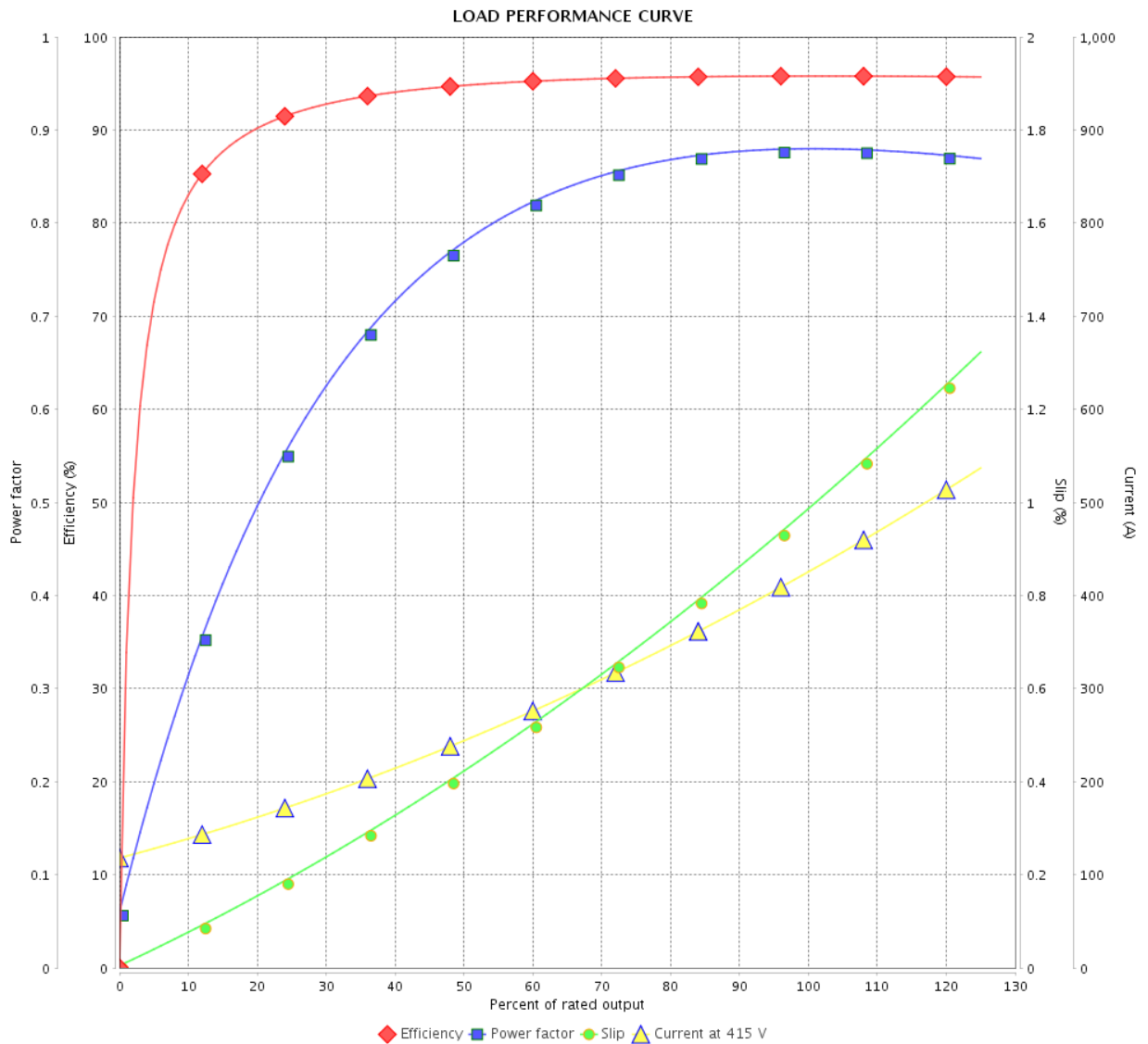


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Rated current : 429 A
 LRC : 7.3
 Rated torque : 619 ft.lb
 Locked rotor torque : 180 %
 Breakdown torque : 270 %
 Rated speed : 2970 rpm

Moment of inertia (J) : 39.1 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : A

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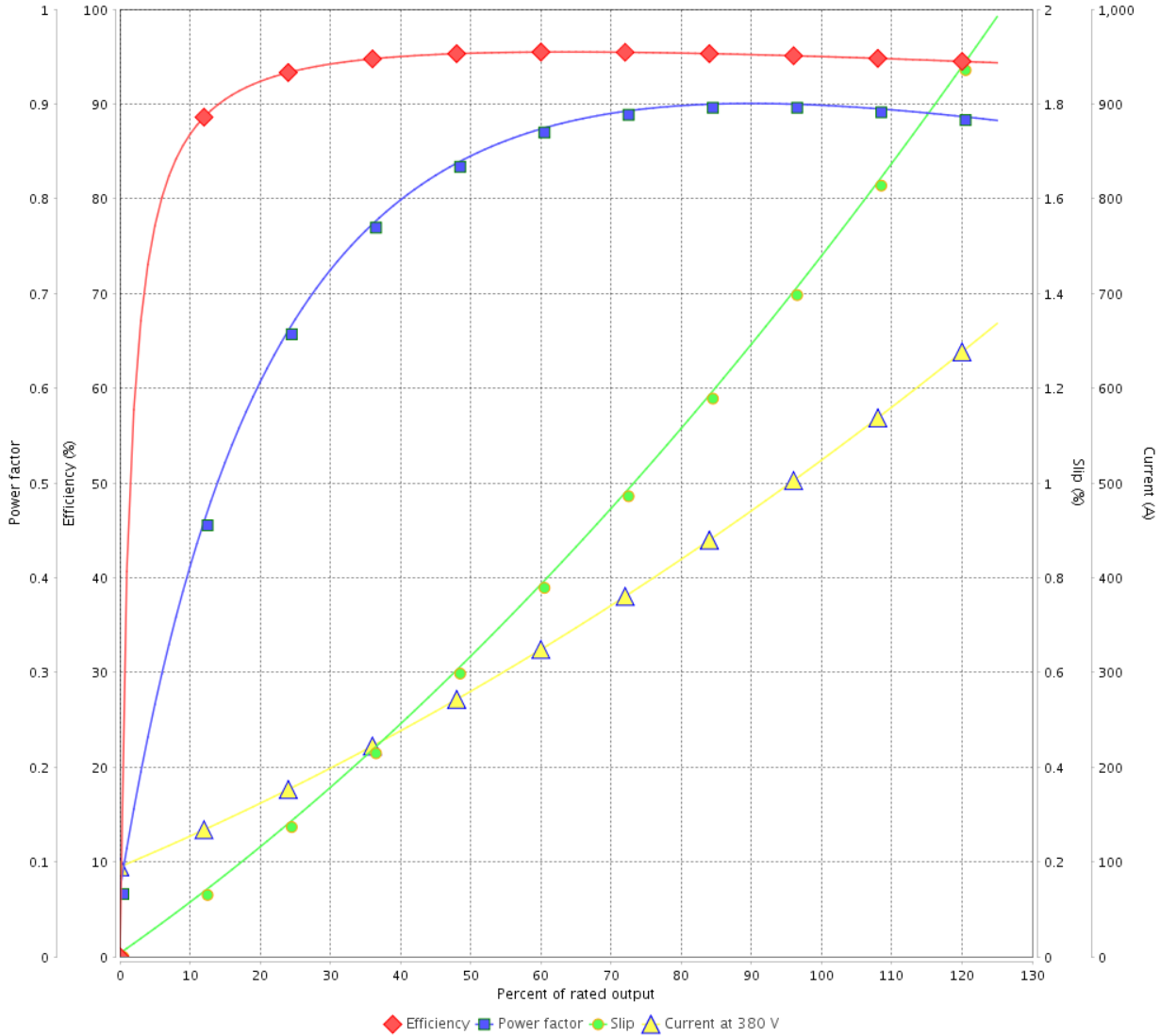
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Performance : 380 V 50 Hz 2P IE2

Rated current : 533 A
 LRC : 5.3
 Rated torque : 711 ft.lb
 Locked rotor torque : 140 %
 Breakdown torque : 200 %
 Rated speed : 2955 rpm

Moment of inertia (J) : 39.1 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : A

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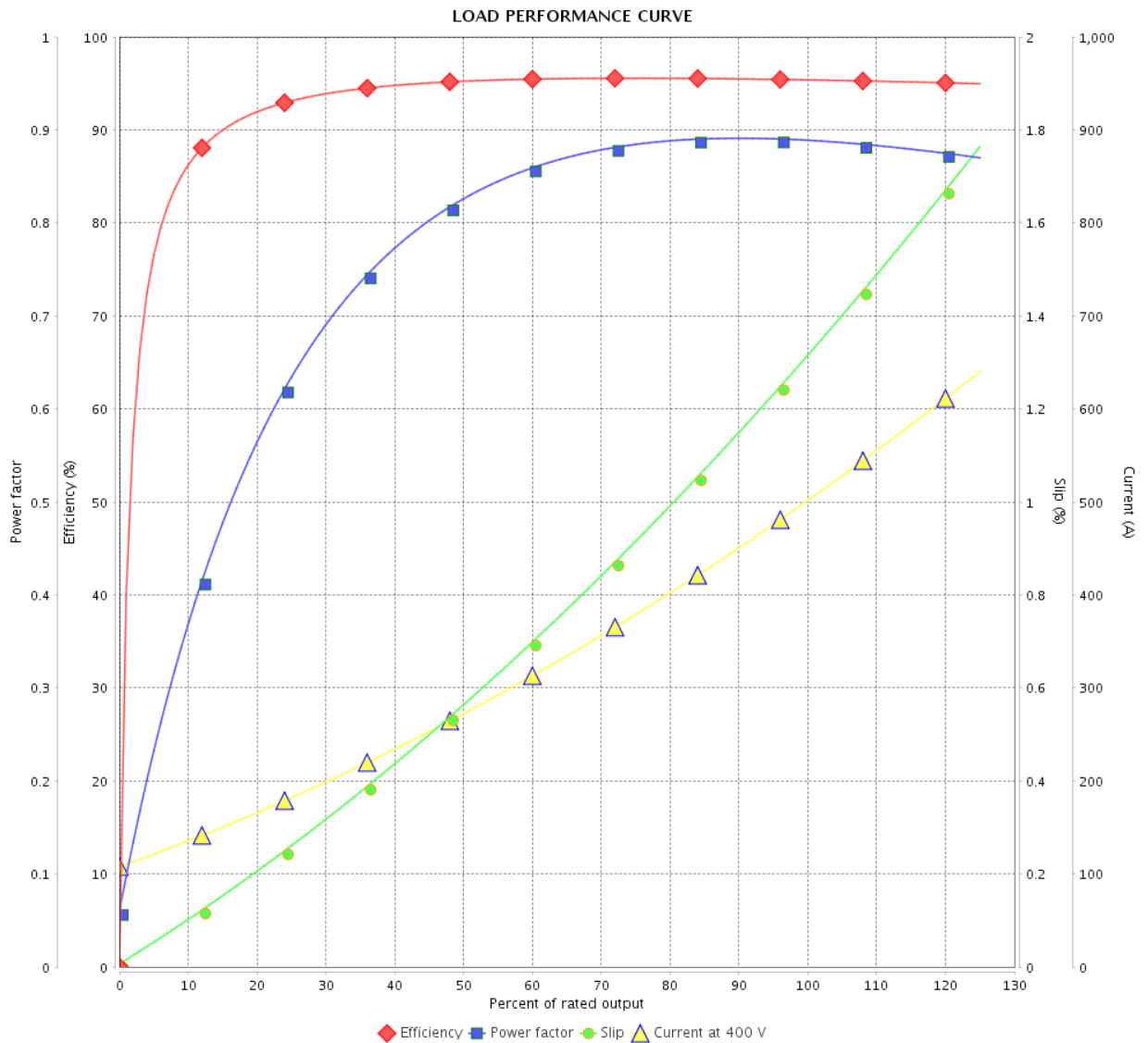


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Performance : 400 V 50 Hz 2P IE2

Rated current : 510 A
 LRC : 5.9
 Rated torque : 710 ft.lb
 Locked rotor torque : 150 %
 Breakdown torque : 220 %
 Rated speed : 2960 rpm

Moment of inertia (J) : 39.1 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
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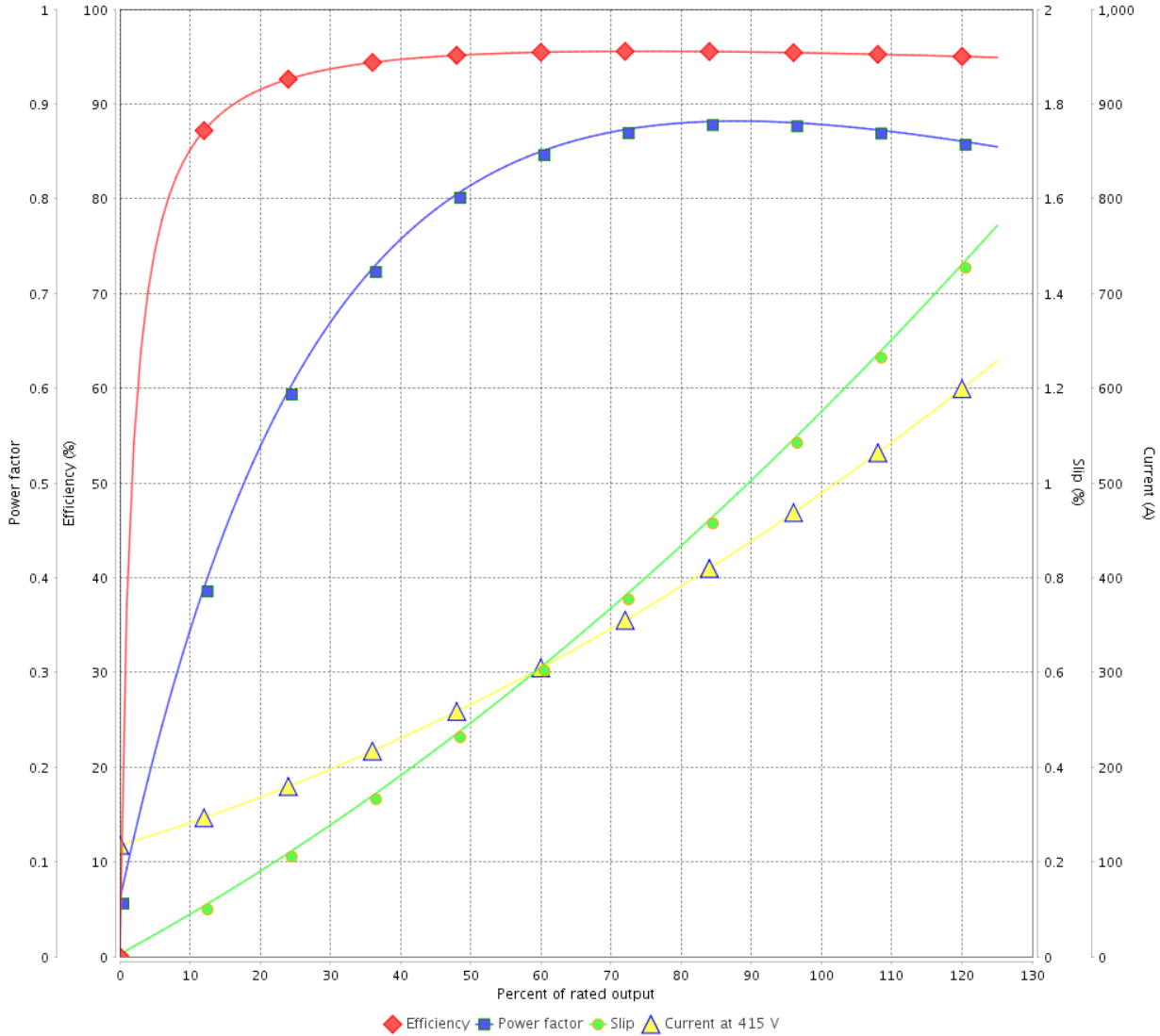
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Performance : 415 V 50 Hz 2P IE2

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 Insulation class : F
 Service factor : 1.15
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Moment of inertia (J) : 39.1 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : A

Heating constant

Cooling constant

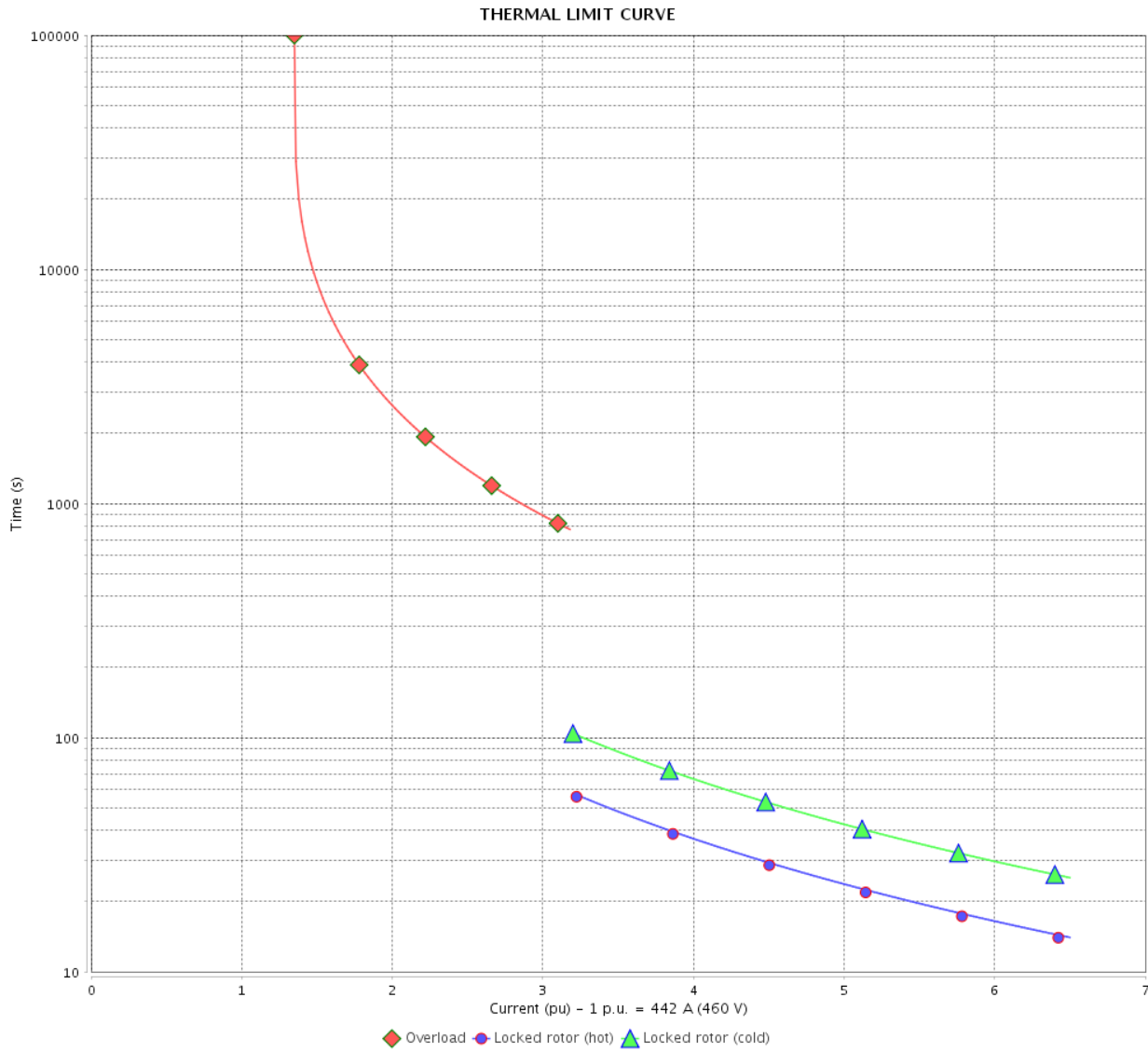
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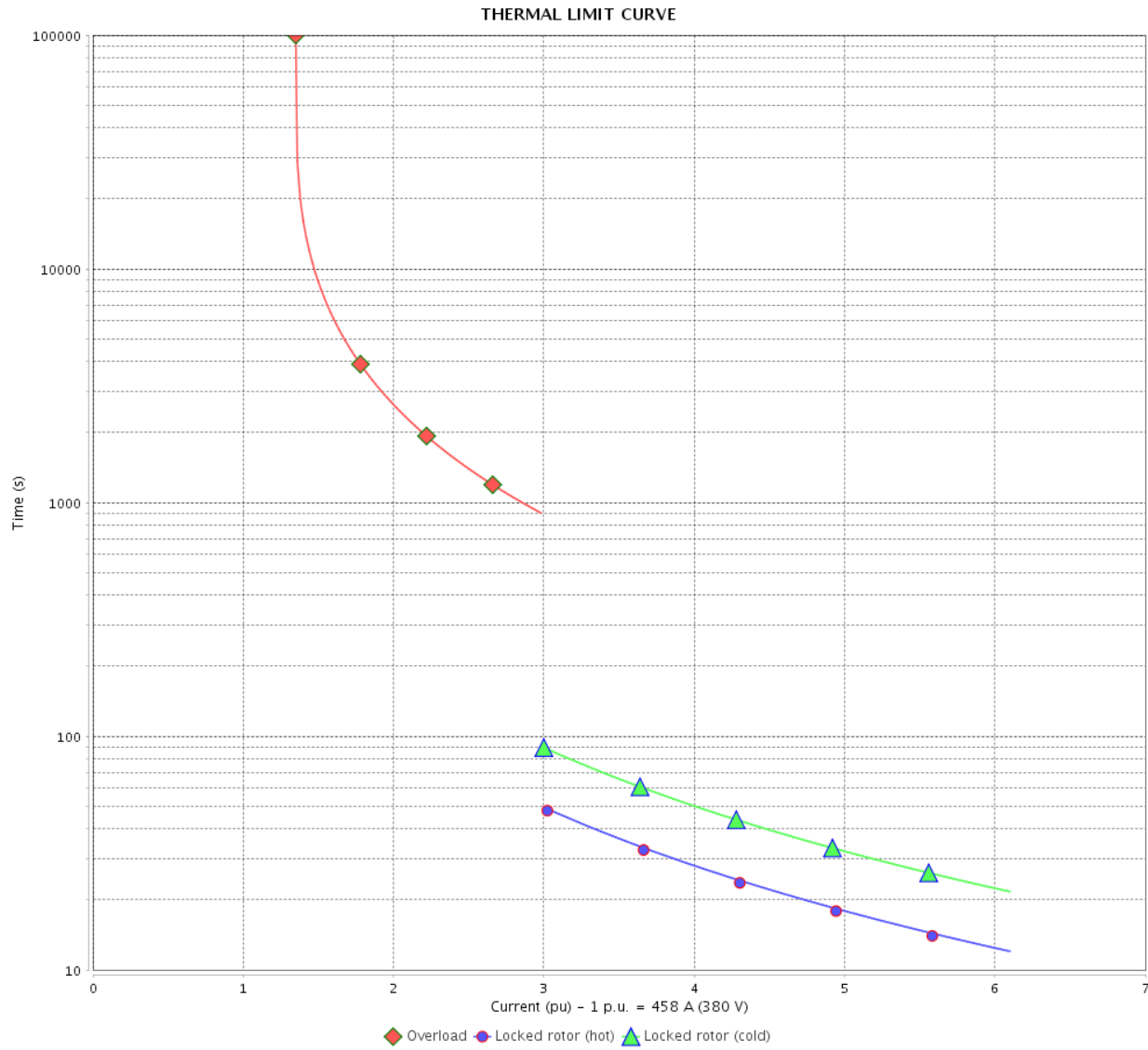
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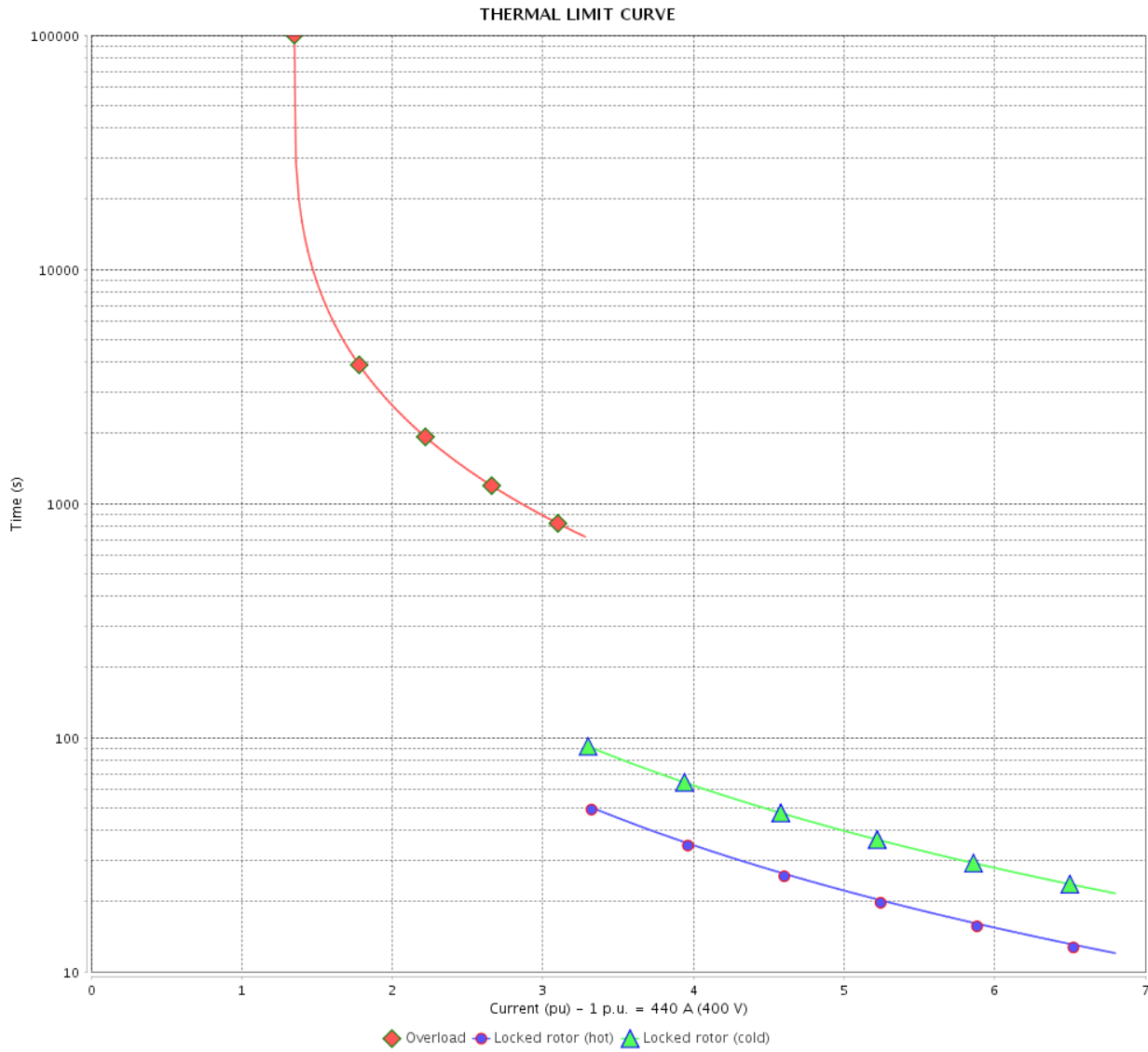
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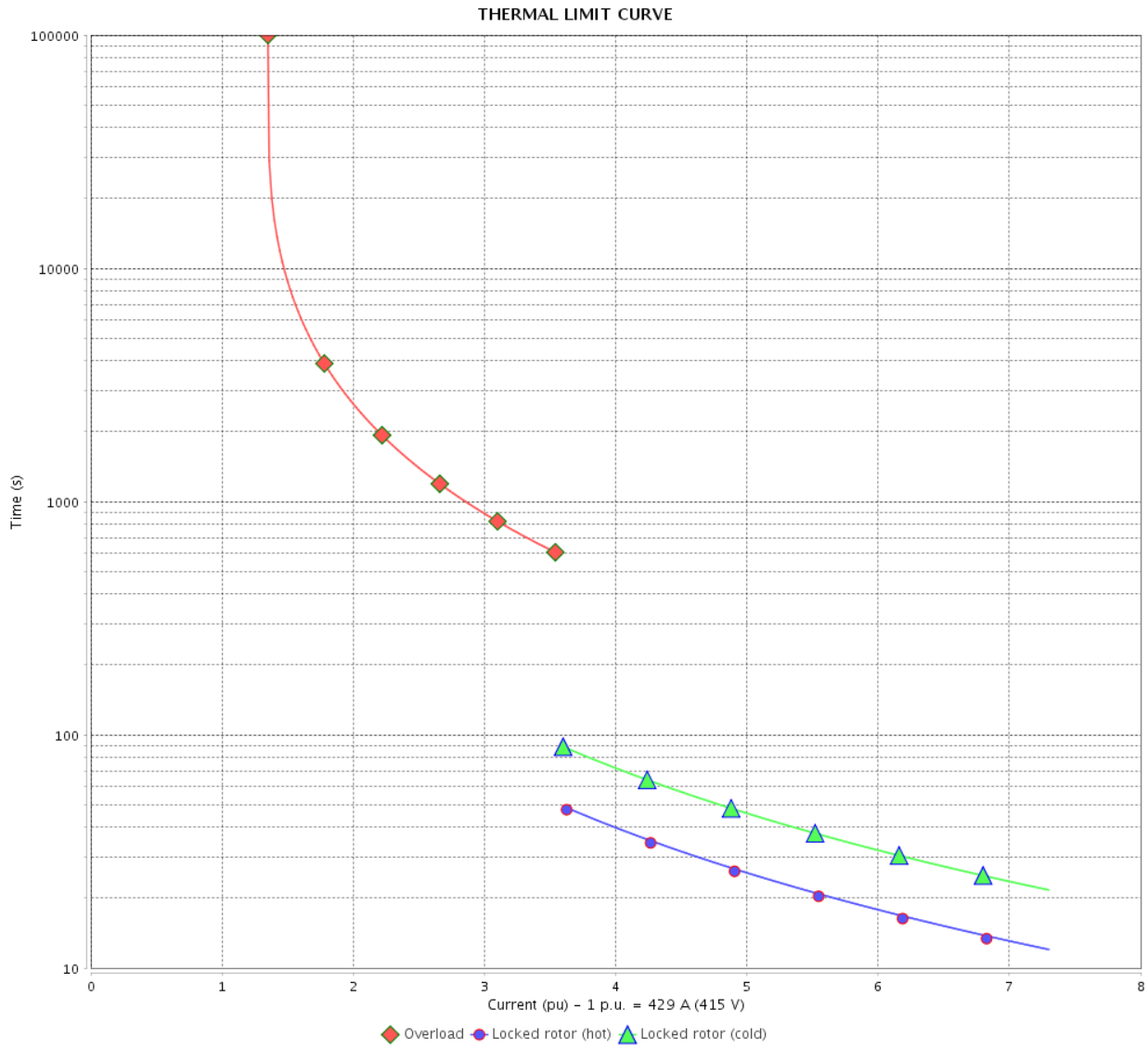
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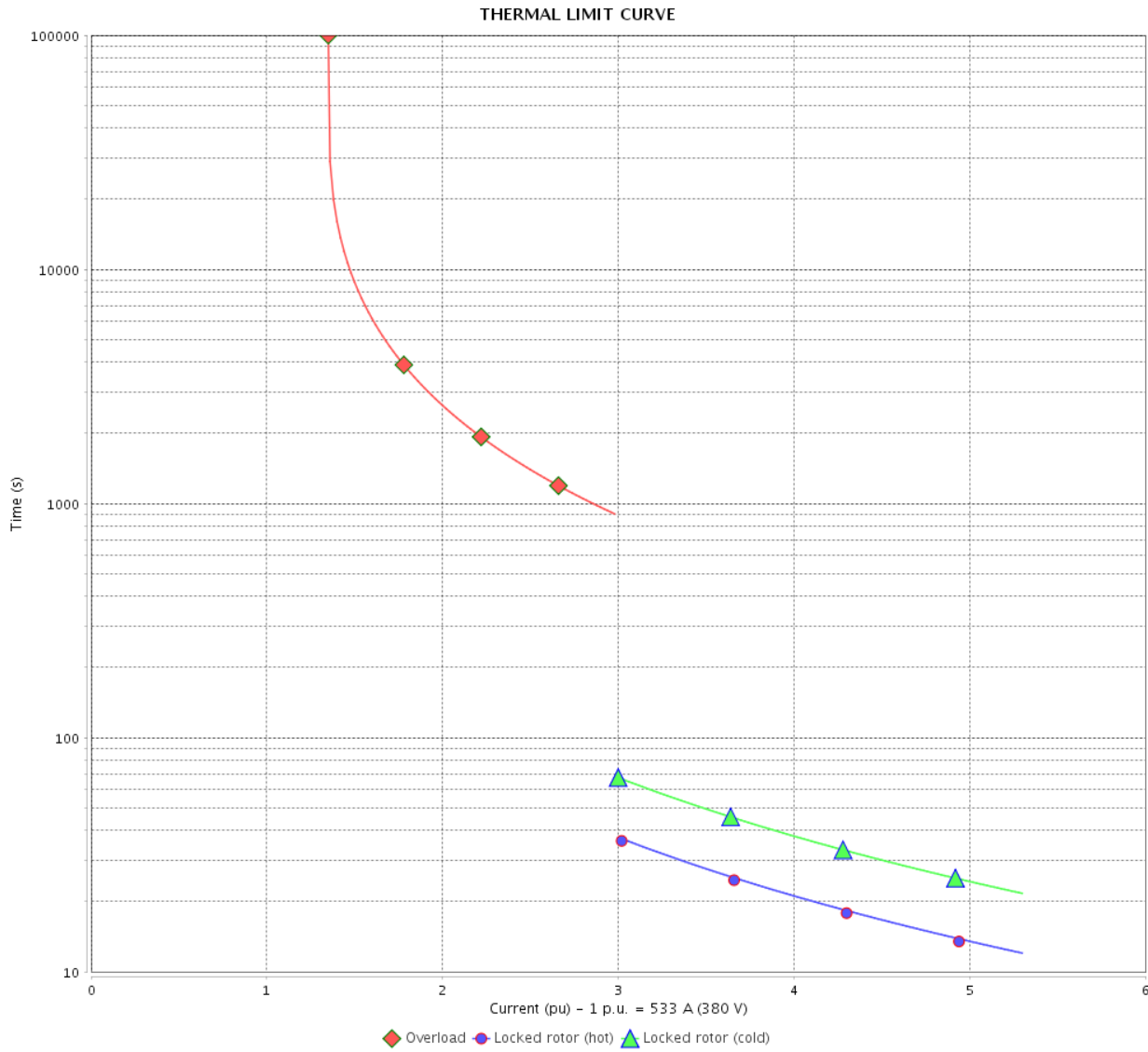
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Rated current : 510 A
LRC : 5.9
Rated torque : 710 ft.lb
Locked rotor torque : 150 %
Breakdown torque : 220 %
Rated speed : 2960 rpm

Moment of inertia (J) : 39.1 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : A

Heating constant

Cooling constant

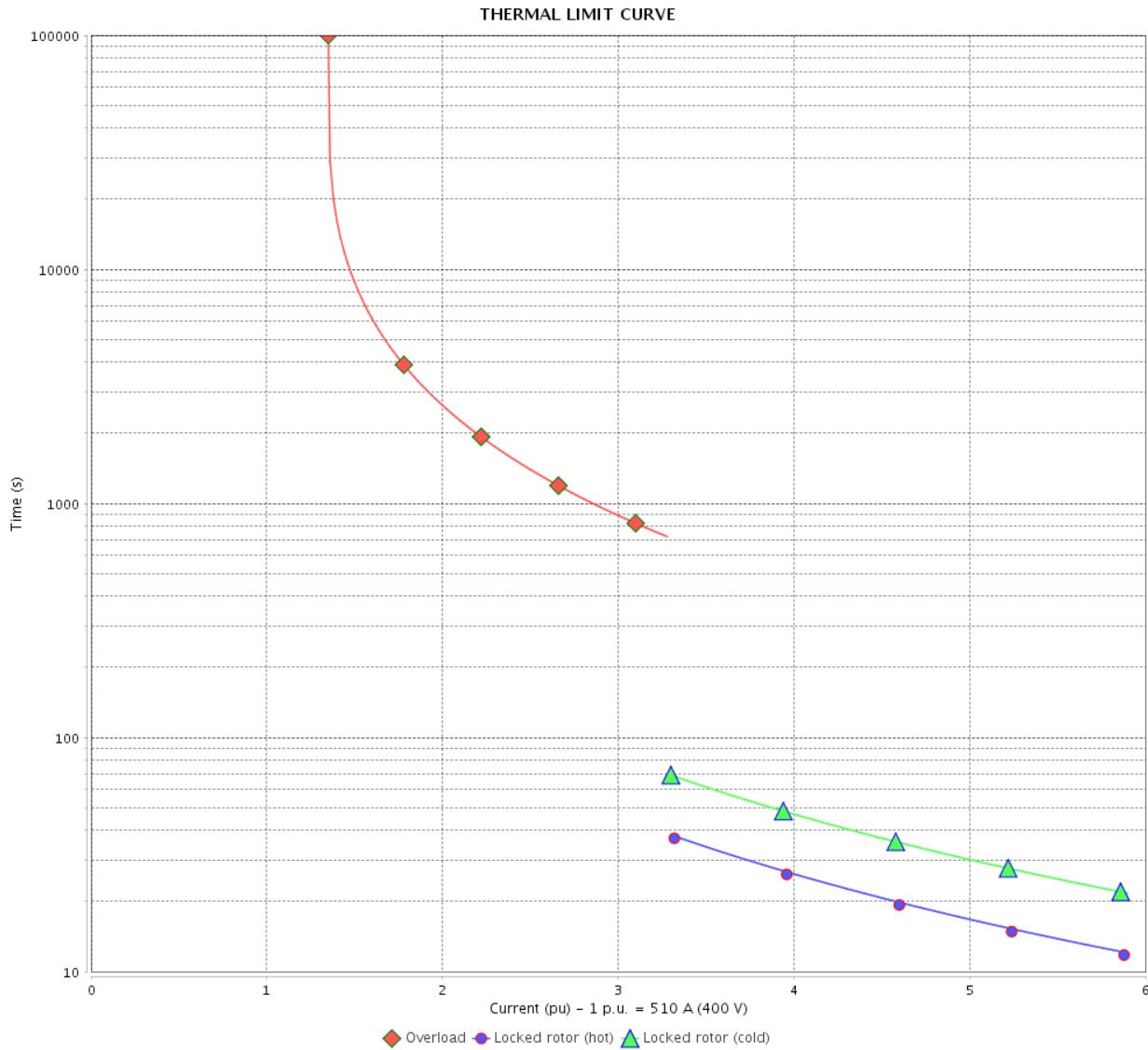
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	13/04/2022		27 / 37	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page		Revision
Checked by		28 / 37		
Date		13/04/2022		

THERMAL LIMIT CURVE



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase Product code : 13593623
 Catalog # : 40036OT3G447/9TS-W40

Performance : 415 V 50 Hz 2P IE2

Rated current : 497 A	Moment of inertia (J) : 39.1 sq.ft.lb
LRC : 6.4	Duty cycle : Cont.(S1)
Rated torque : 708 ft.lb	Insulation class : F
Locked rotor torque : 160 %	Service factor : 1.15
Breakdown torque : 240 %	Temperature rise : 80 K
Rated speed : 2965 rpm	Design : A

Heating constant

Cooling constant

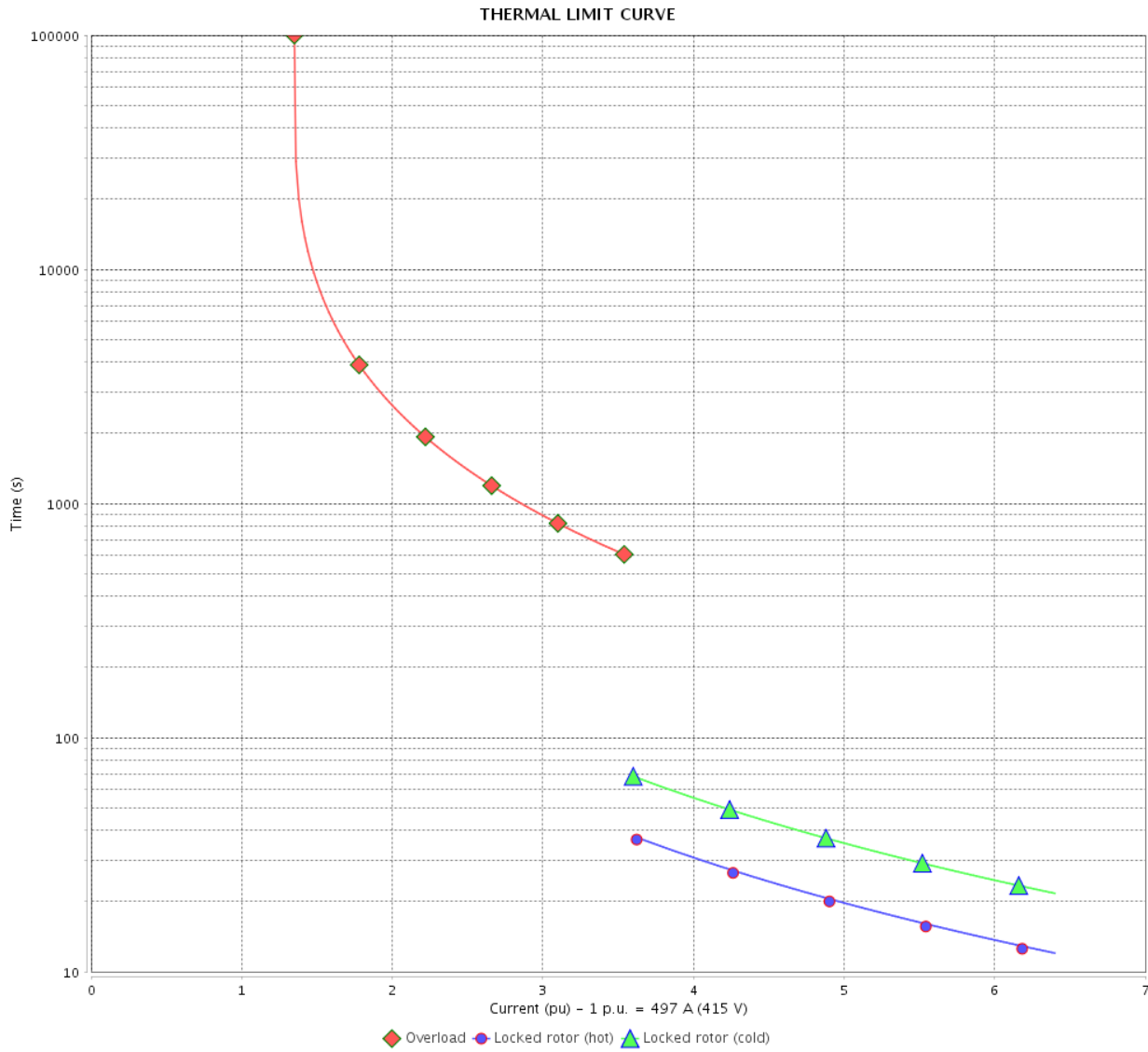
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Performed by			Page 29 / 37	Revision
Checked by				
Date	13/04/2022			

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page		Revision
Checked by		30 / 37		
Date		13/04/2022		

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

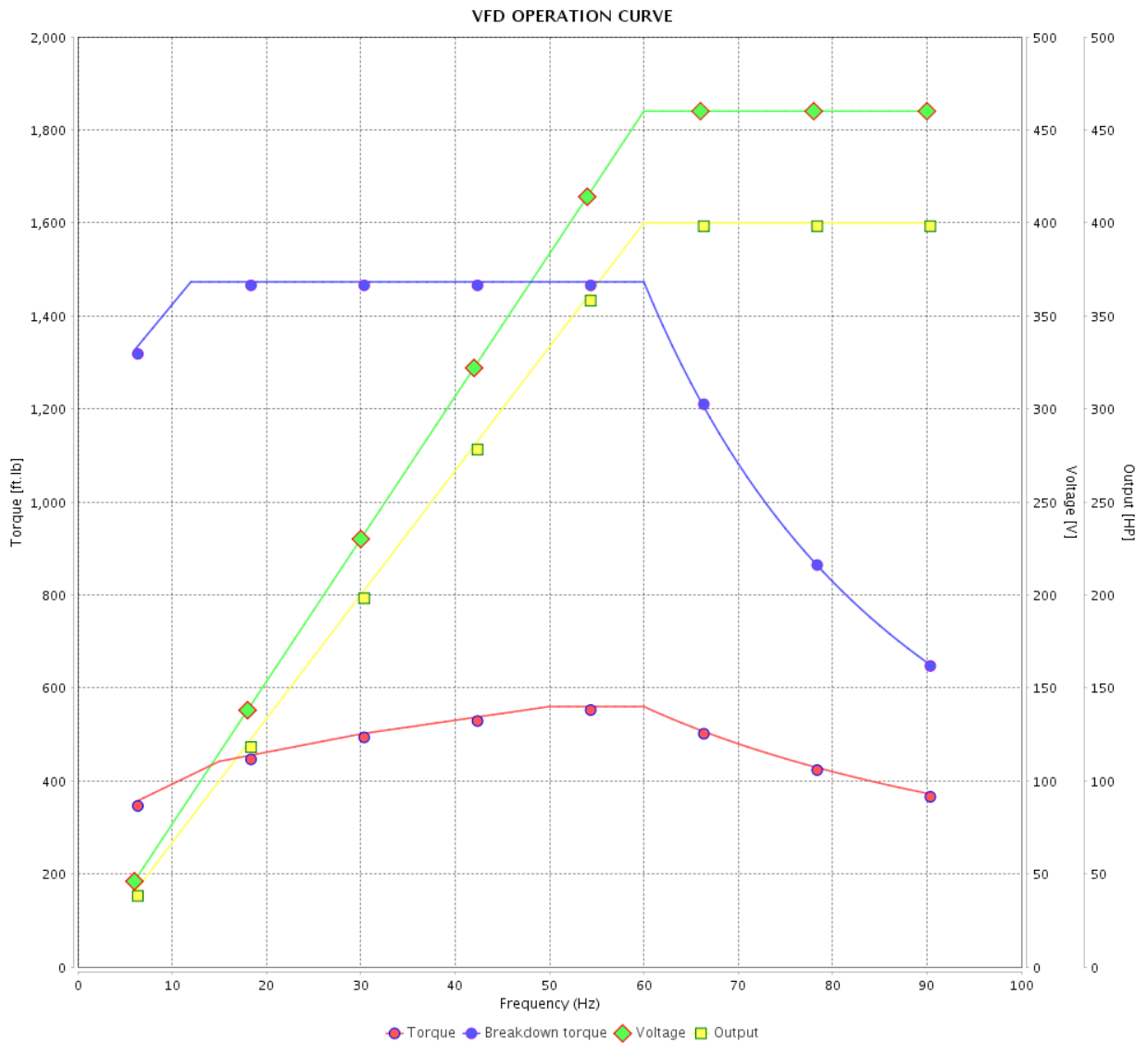


Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 13593623

Catalog # : 40036OT3G447/9TS-W40



Performance : 460 V 60 Hz 2P

Rated current : 442 A
 LRC : 6.5
 Rated torque : 589 ft.lb
 Locked rotor torque : 170 %
 Breakdown torque : 250 %
 Rated speed : 3565 rpm

Moment of inertia (J) : 39.1 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : A

Rev.	Changes Summary	Performed	Checked	Date
Performed by				Page 31 / 37
Checked by				
Date	13/04/2022			

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



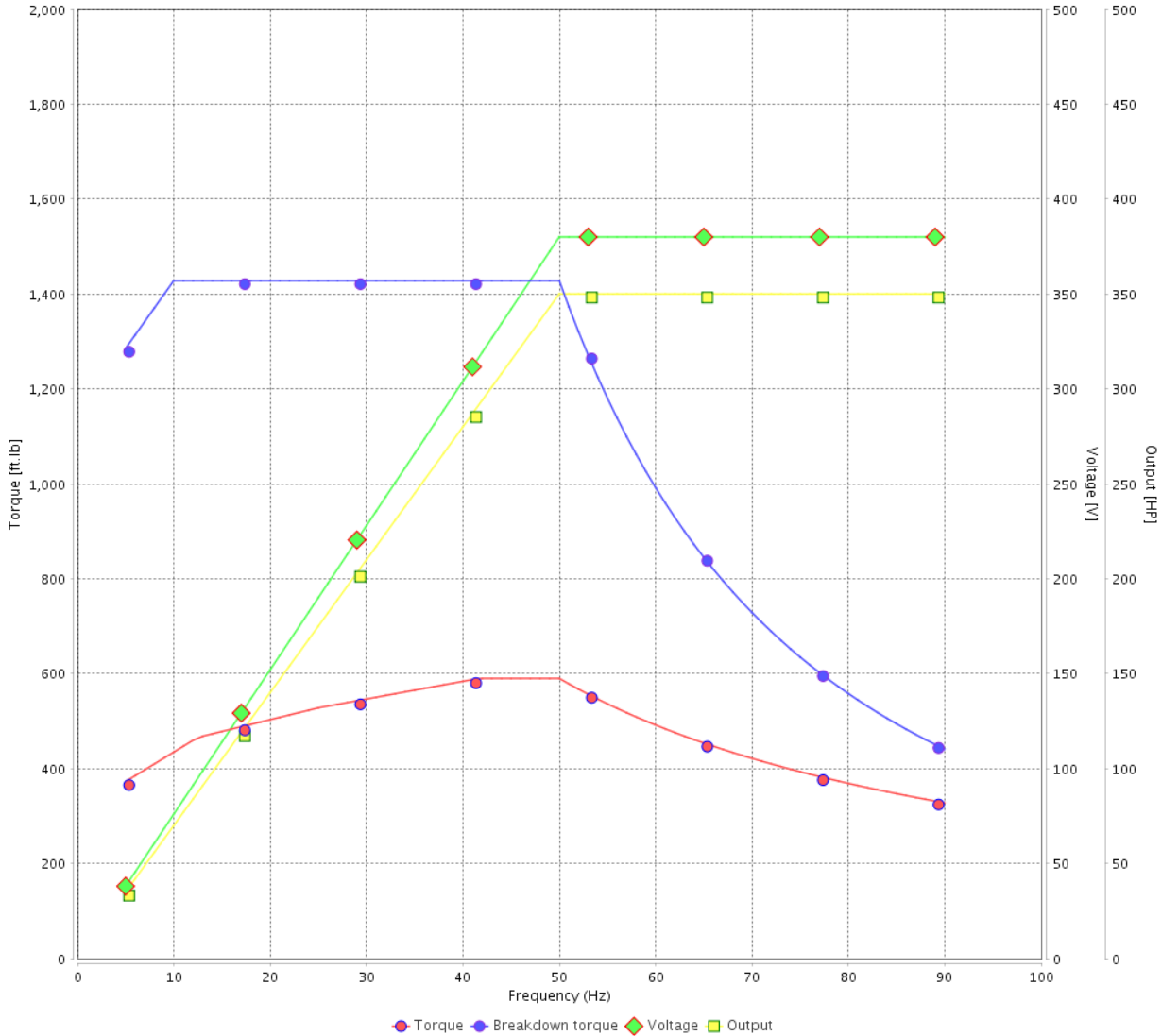
Customer :

Product line : W40 NEMA Premium Efficiency
Three-Phase

Product code : 13593623

Catalog # : 40036OT3G447/9TS-W40

VFD OPERATION CURVE



Performance : 380 V 50 Hz 2P IE3

Rated current : 458 A
LRC : 6.1
Rated torque : 621 ft.lb
Locked rotor torque : 160 %
Breakdown torque : 229 %
Rated speed : 2960 rpm

Moment of inertia (J) : 39.1 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : A

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 32 / 37	Revision
Checked by				
Date	13/04/2022			

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

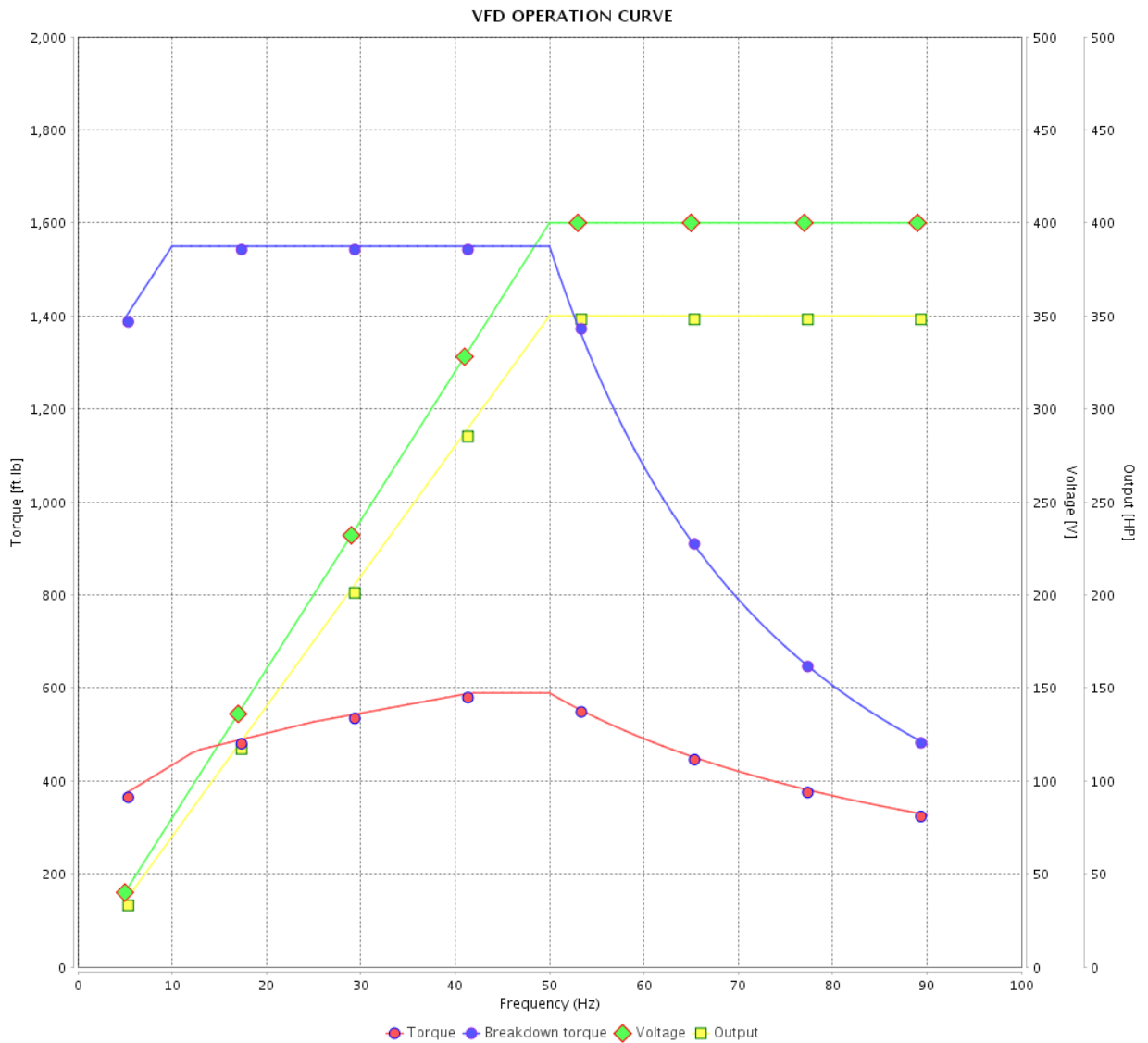


Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 13593623

Catalog # : 40036OT3G447/9TS-W40



Performance : 400 V 50 Hz 2P IE3

Rated current : 440 A
 LRC : 6.8
 Rated torque : 620 ft.lb
 Locked rotor torque : 170 %
 Breakdown torque : 250 %
 Rated speed : 2965 rpm

Moment of inertia (J) : 39.1 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : A

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 33 / 37	Revision
Checked by				
Date	13/04/2022			

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



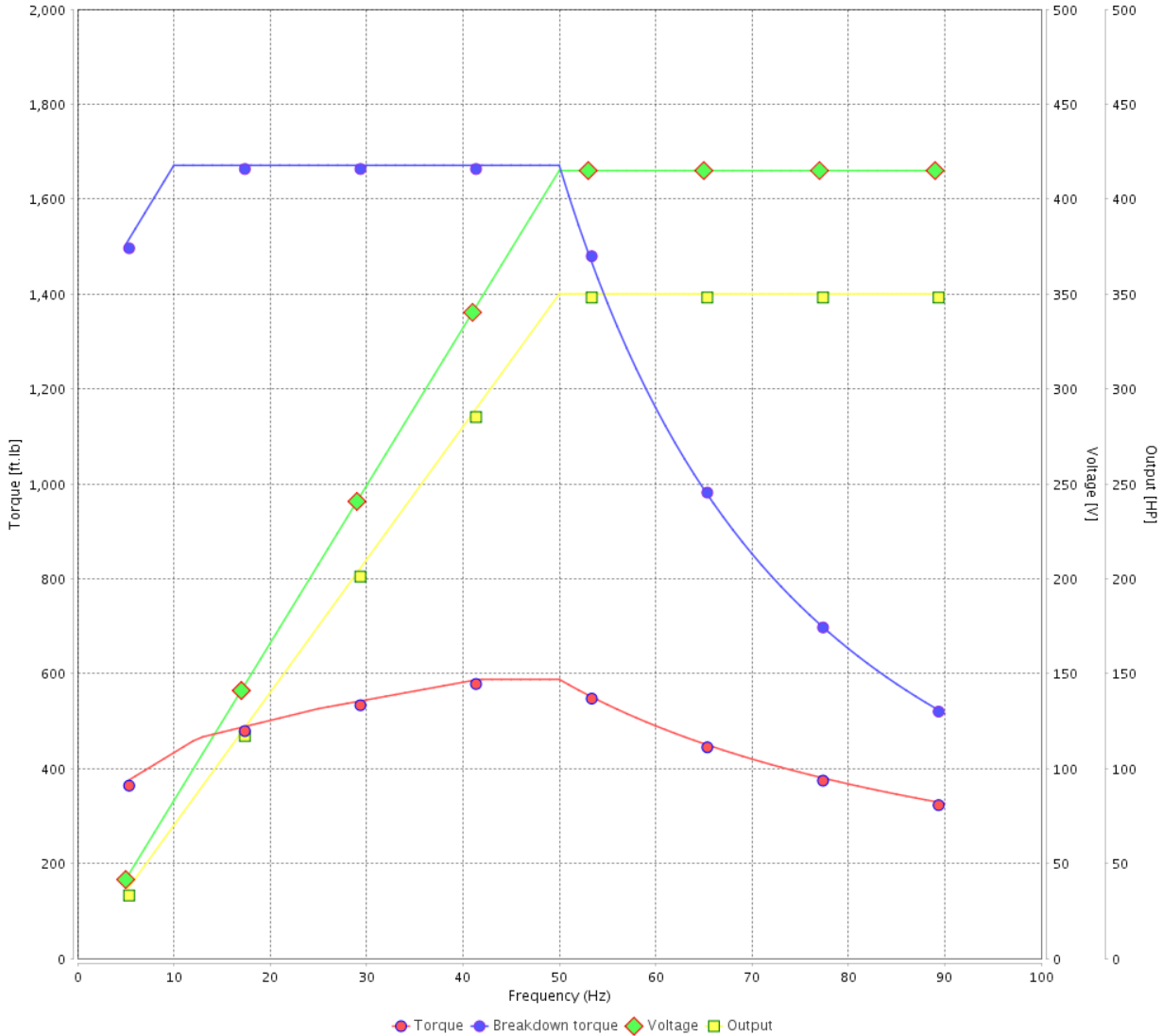
Customer :

Product line : W40 NEMA Premium Efficiency
Three-Phase

Product code : 13593623

Catalog # : 40036OT3G447/9TS-W40

VFD OPERATION CURVE



Performance : 415 V 50 Hz 2P IE3

Rated current : 429 A
LRC : 7.3
Rated torque : 619 ft.lb
Locked rotor torque : 180 %
Breakdown torque : 270 %
Rated speed : 2970 rpm

Moment of inertia (J) : 39.1 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : A

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page	Revision
Checked by				
Date				

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

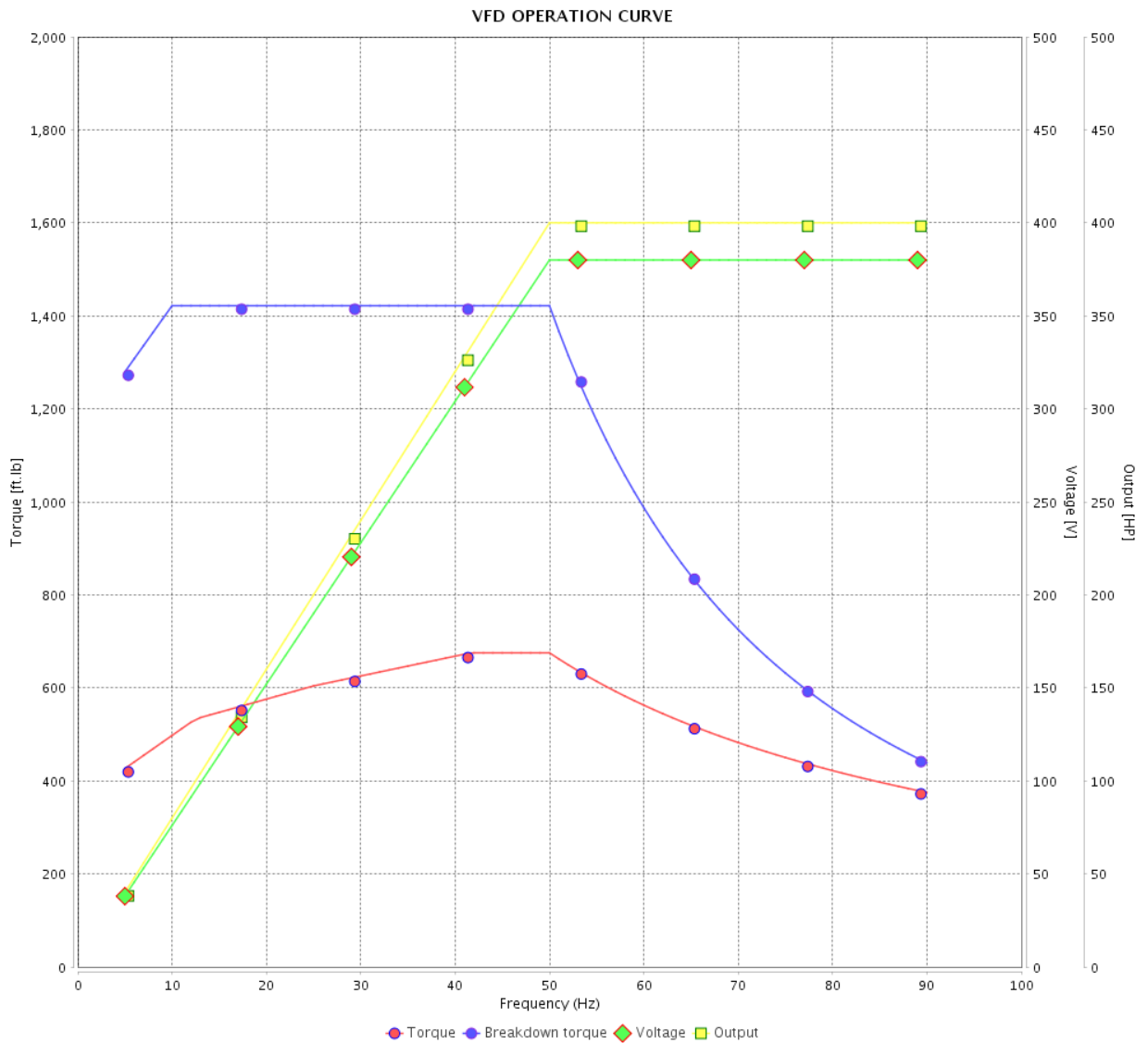


Customer :

Product line : W40 NEMA Premium Efficiency
Three-Phase

Product code : 13593623

Catalog # : 40036OT3G447/9TS-W40



Performance : 380 V 50 Hz 2P IE2

Rated current : 533 A
LRC : 5.3
Rated torque : 711 ft.lb
Locked rotor torque : 140 %
Breakdown torque : 200 %
Rated speed : 2955 rpm

Moment of inertia (J) : 39.1 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : A

Rev.	Changes Summary	Performed	Checked	Date
Performed by				Page 35 / 37
Checked by				
Date	13/04/2022			

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



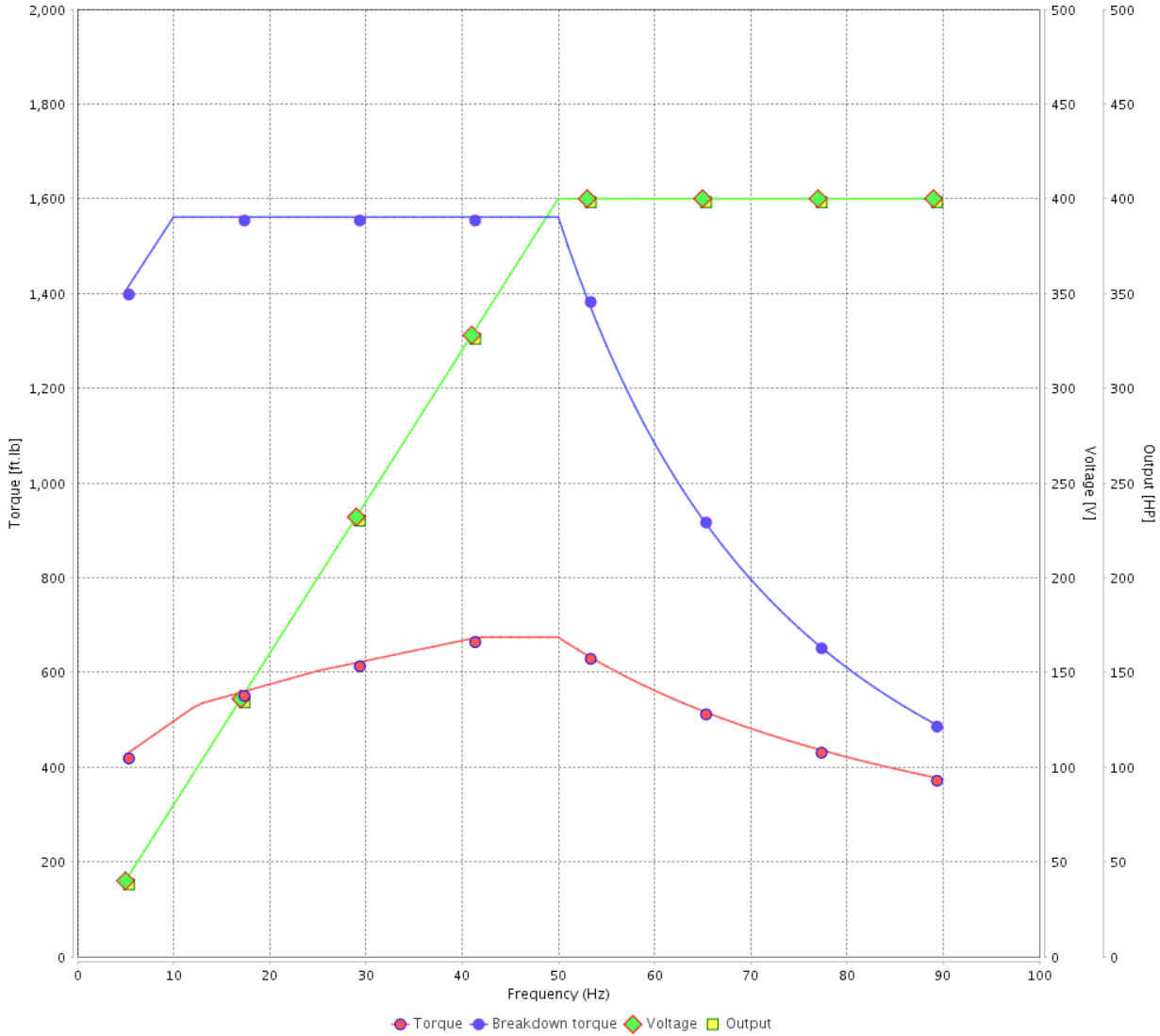
Customer :

Product line : W40 NEMA Premium Efficiency
Three-Phase

Product code : 13593623

Catalog # : 40036OT3G447/9TS-W40

VFD OPERATION CURVE



Performance : 400 V 50 Hz 2P IE2

Rated current : 510 A
LRC : 5.9
Rated torque : 710 ft.lb
Locked rotor torque : 150 %
Breakdown torque : 220 %
Rated speed : 2960 rpm

Moment of inertia (J) : 39.1 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : A

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page	Revision
Checked by				
Date				

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

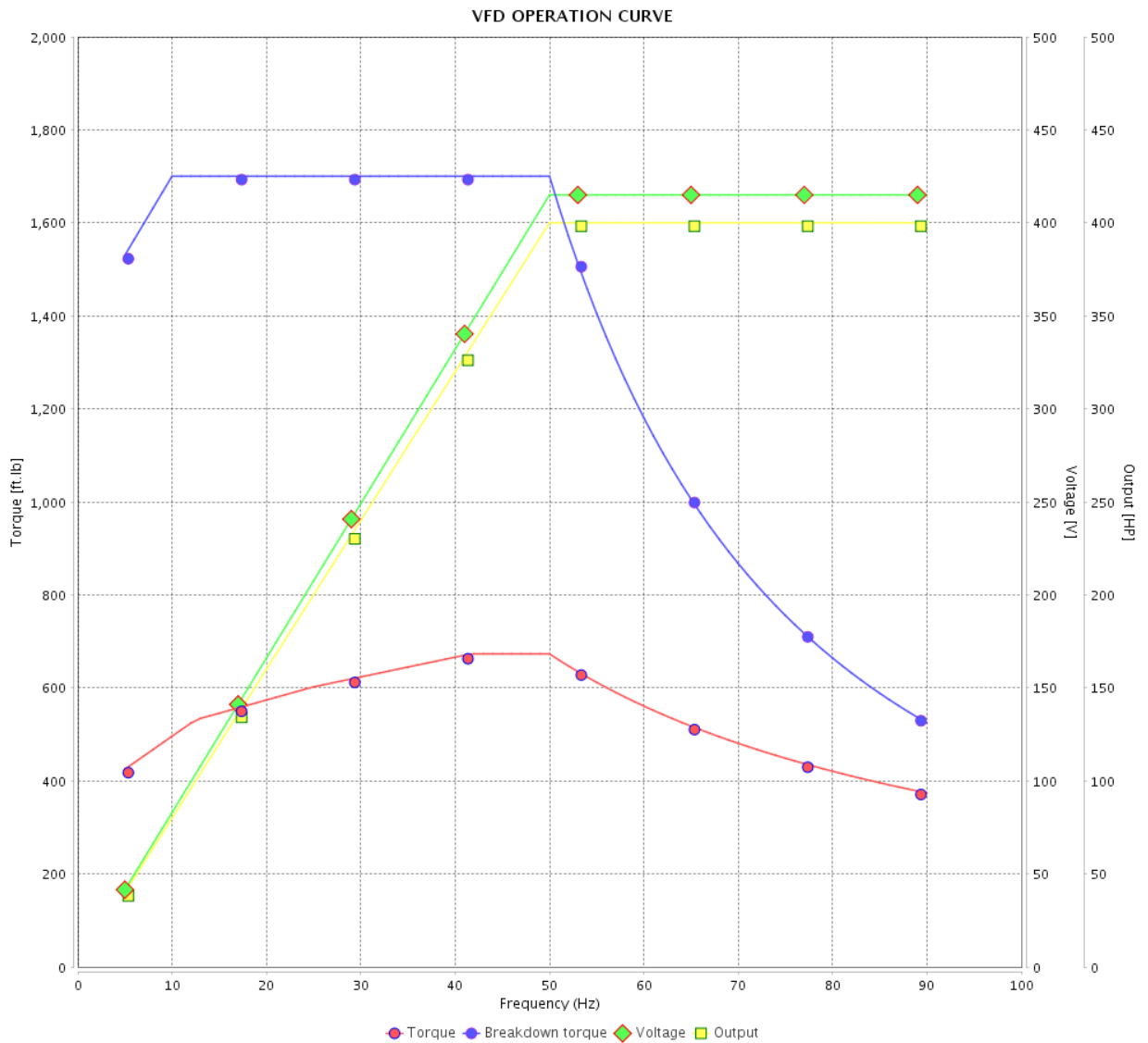


Customer :

Product line : W40 NEMA Premium Efficiency
Three-Phase

Product code : 13593623

Catalog # : 400360T3G447/9TS-W40

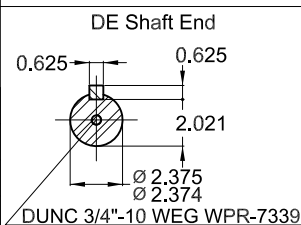
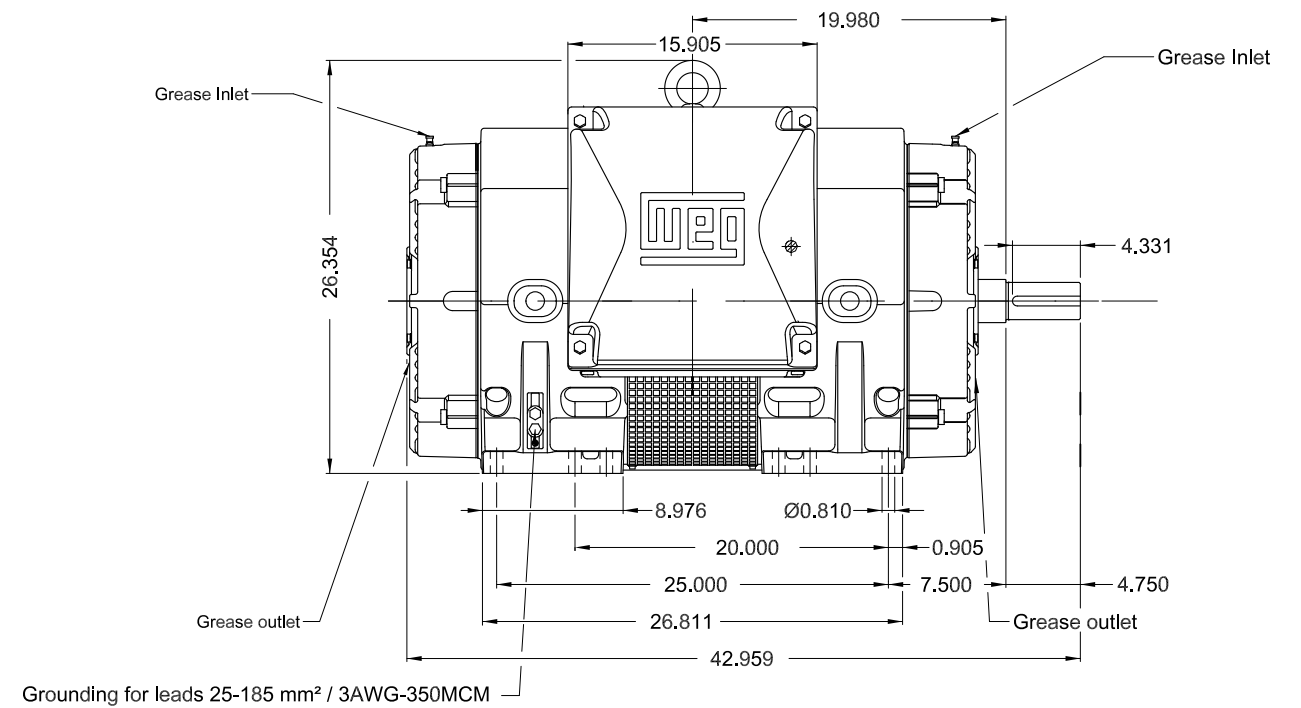
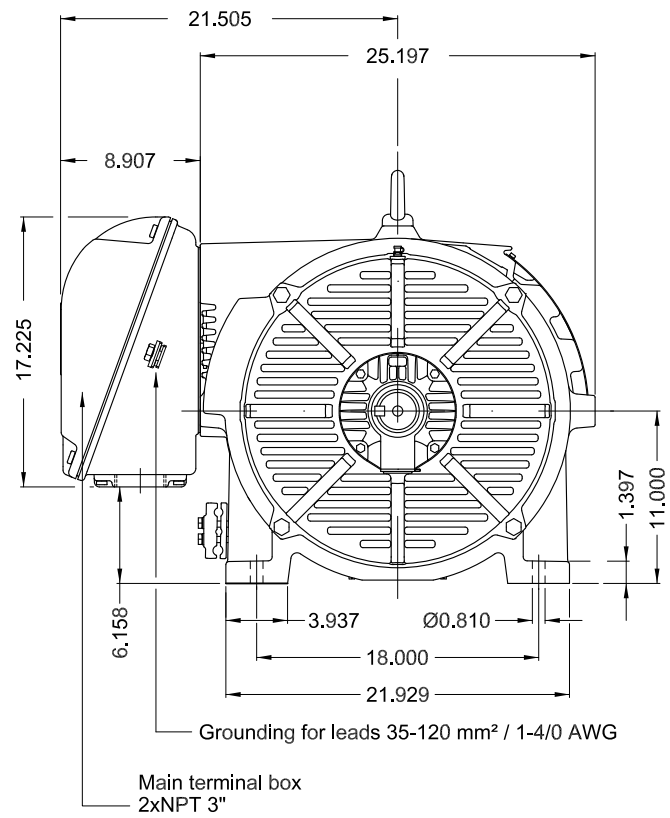


Performance : 415 V 50 Hz 2P IE2

Rated current : 497 A
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Locked rotor torque : 160 %
Breakdown torque : 240 %
Rated speed : 2965 rpm

Moment of inertia (J) : 39.1 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : A

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page		Revision
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Date		13/04/2022		

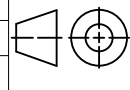


Color RAL 5009
 Painting plan 203A
 Mounting NEMA F-1
 Mounting B3R(D)

400 HP 02 Poles 60 Hz

Dimensions in inches

1:12

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	PIRWBUSER	 THREE PH. MOTOR W40 PREM. EFF. FRAME 447/9TS IP23 ODP					
CHECKED							
RELEASED							
REL DT.							
	WMO	Jaragua do Sul	Product Engineering	SHEET 1 / 1			

PREVIEW
 WDD



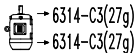
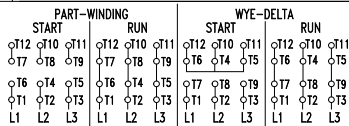
MODEL 400360T3G447/9TS-W40
MADE IN BRAZIL
13593623



MOD.T01#FOXON



PH 3	FR 447/9TS	HP(kW) 400(300)		Hz 60
V 460		A 442		IP23
NEMA NOM EFF		95.8	%	RPM 3565
ENCL ODP	DUTY CONT.		INS. CL. F ΔT 80 K	
PF 0.89		DES A	CODE G	AMB. 40°C
SF 1.15		SFA 508		ALT 1000 m.a.s.l.



MOBIL POLYREX EM
14418 h

2011 Lbs