

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer								
Product line		: W40 NEMA Premium Efficiency Three-Phase		Product code :		13621557		
				Catalog # :		60036OT3G447/9TS-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		: 2333 lb		
Protection degree		: IP23		Moment of inertia (J)		: 53.6 sq.ft.lb		
Output [HP]	600	500	500	500	550	550	550	
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]	645	645	619	597	700	670	645	
L. R. Amperes [A]	5096	4709	5014	5254	4620	4958	5160	
LRC [A]	7.9x(Code H)	7.3x(Code G)	8.1x(Code H)	8.8x(Code J)	6.6x(Code F)	7.4x(Code G)	8.0x(Code H)	
No load current [A]	165	155	170	185	155	170	185	
Rated speed [RPM]	3565	2965	2970	2970	2965	2970	2970	
Slip [%]	0.97	1.17	1.00	1.00	1.17	1.00	1.00	
Rated torque [ft.lb]	884	886	884	884	974	972	972	
Locked rotor torque [%]	190	200	220	240	180	200	220	
Breakdown torque [%]	270	240	260	280	220	240	250	
Service factor	1.15	1.15	1.15	1.15	1.00	1.00	1.00	
Temperature rise	80 K	105 K	80 K	80 K	105 K	105 K	105 K	
Locked rotor time	25s (cold) 14s (hot)	18s (cold) 10s (hot)	18s (cold) 10s (hot)	18s (cold) 10s (hot)	18s (cold) 10s (hot)	18s (cold) 10s (hot)	18s (cold) 10s (hot)	
Noise level ²	87.0 dB(A)							
Efficiency (%)	25%	95.7	93.8	93.6	93.6	94.6	94.2	94.2
	50%	95.8	94.5	94.3	94.3	95.0	95.0	95.0
	75%	96.2	95.2	95.2	95.2	95.0	95.0	95.0
	100%	96.2	95.8	95.8	95.8	95.4	95.8	95.8
Power Factor	25%	0.58	0.60	0.57	0.54	0.63	0.61	0.58
	50%	0.81	0.82	0.81	0.79	0.85	0.84	0.83
	75%	0.88	0.90	0.89	0.88	0.90	0.89	0.88
	100%	0.89	0.91	0.90	0.90	0.91	0.90	0.90
Bearing type	: <u>Drive end</u> 6314 C3 <u>Non drive end</u> 6314 C3		Foundation loads					
Sealing	: Without Bearing Seal Without Bearing Seal		Max. traction : 5315 lb					
Lubrication interval	: 14418 h 14418 h		Max. compression : 7648 lb					
Lubricant amount	: 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



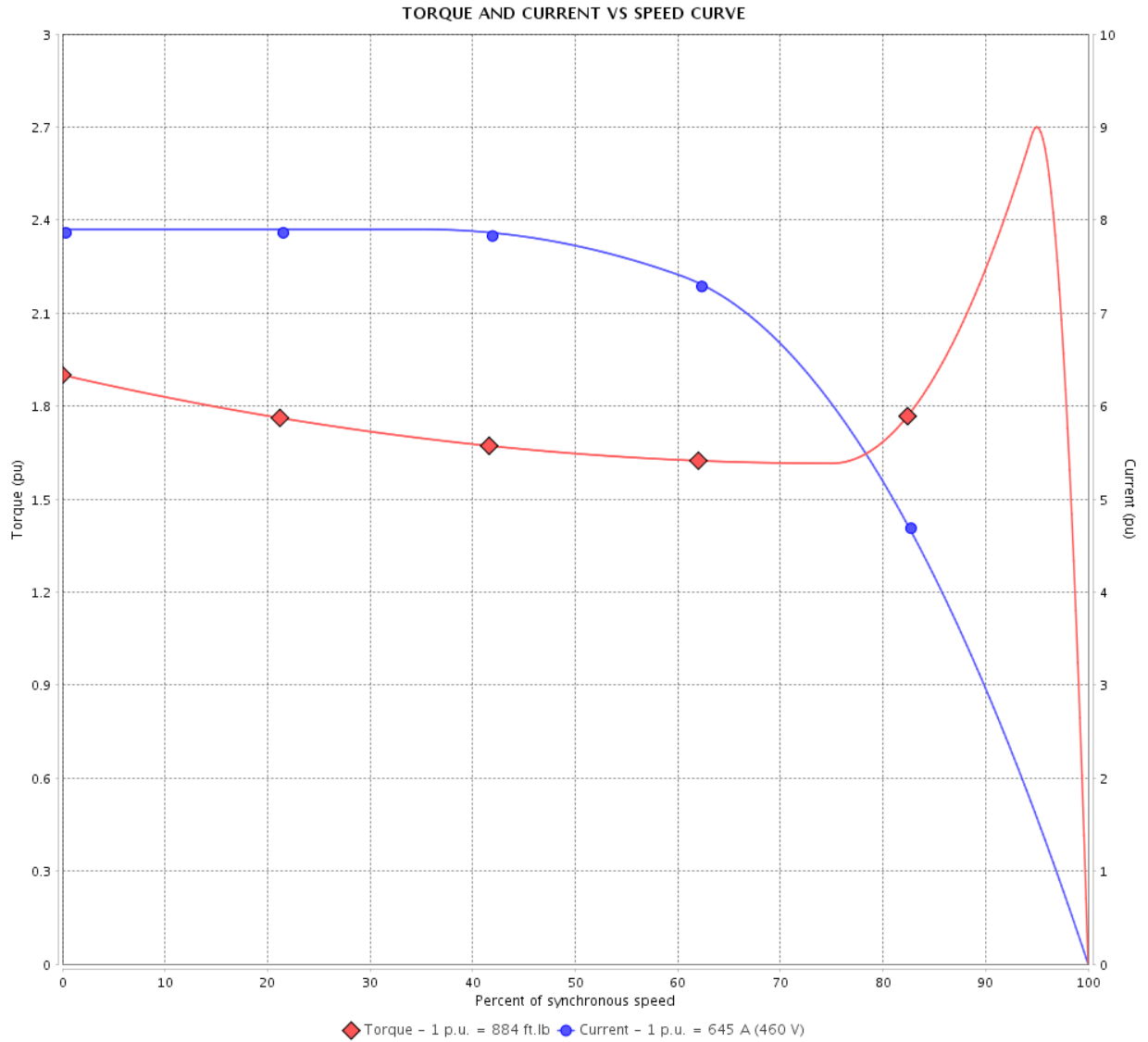
Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W40 NEMA Premium Efficiency
Three-Phase

Product code : 13621557

Catalog # : 60036OT3G447/9TS-W40



Performance : 460 V 60 Hz 2P

Rated current	: 645 A	Moment of inertia (J)	: 53.6 sq.ft.lb
LRC	: 7.9	Duty cycle	: Cont.(S1)
Rated torque	: 884 ft.lb	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.15
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 3565 rpm		

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

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



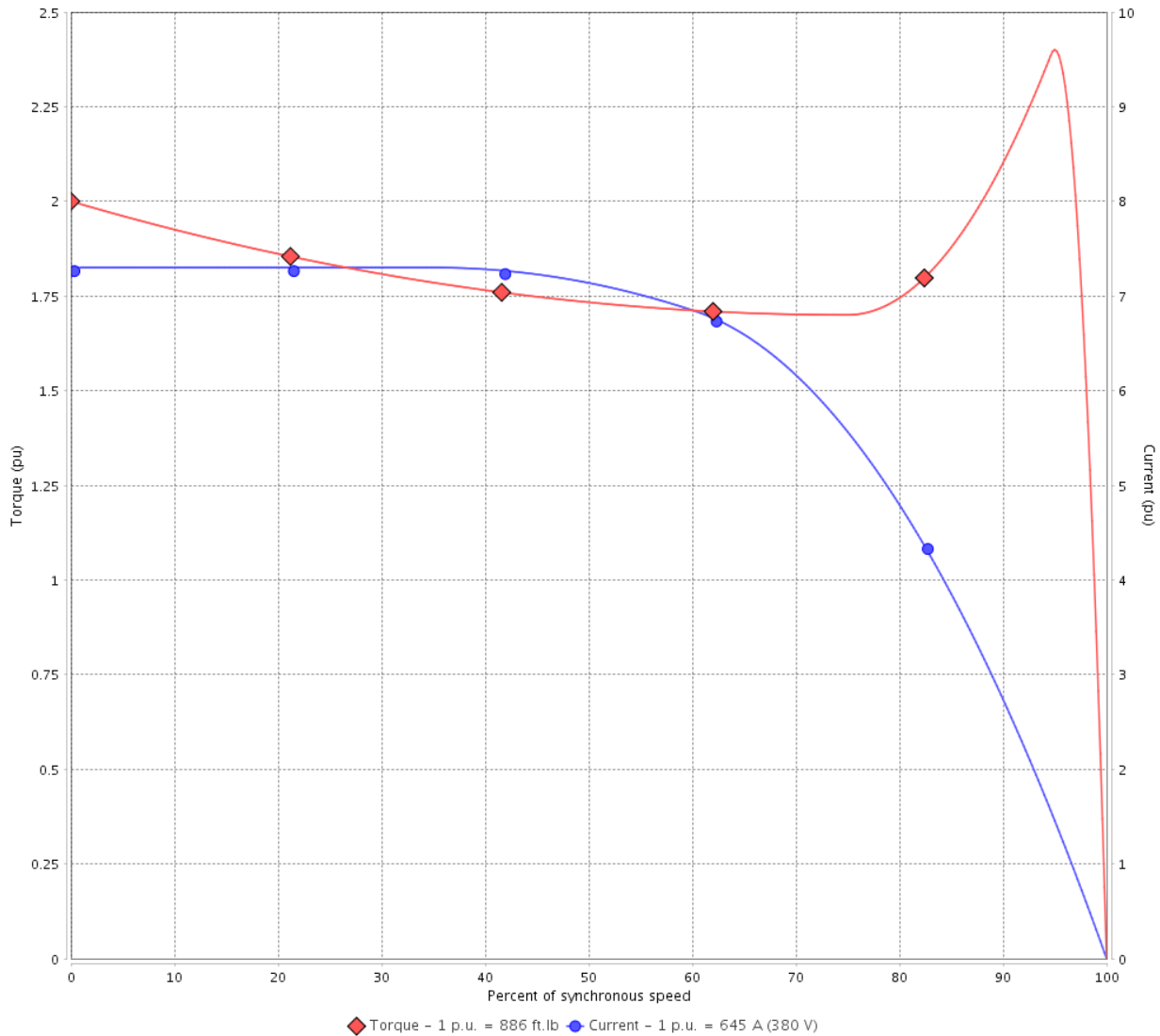
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Catalog # : 60036OT3G447/9TS-W40

TORQUE AND CURRENT VS SPEED CURVE



Performance : 380 V 50 Hz 2P IE3

Rated current	: 645 A	Moment of inertia (J)	: 53.6 sq.ft.lb
LRC	: 7.3	Duty cycle	: Cont.(S1)
Rated torque	: 886 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 240 %	Temperature rise	: 105 K
Rated speed	: 2965 rpm		

Locked rotor time : 18s (cold) 10s (hot)

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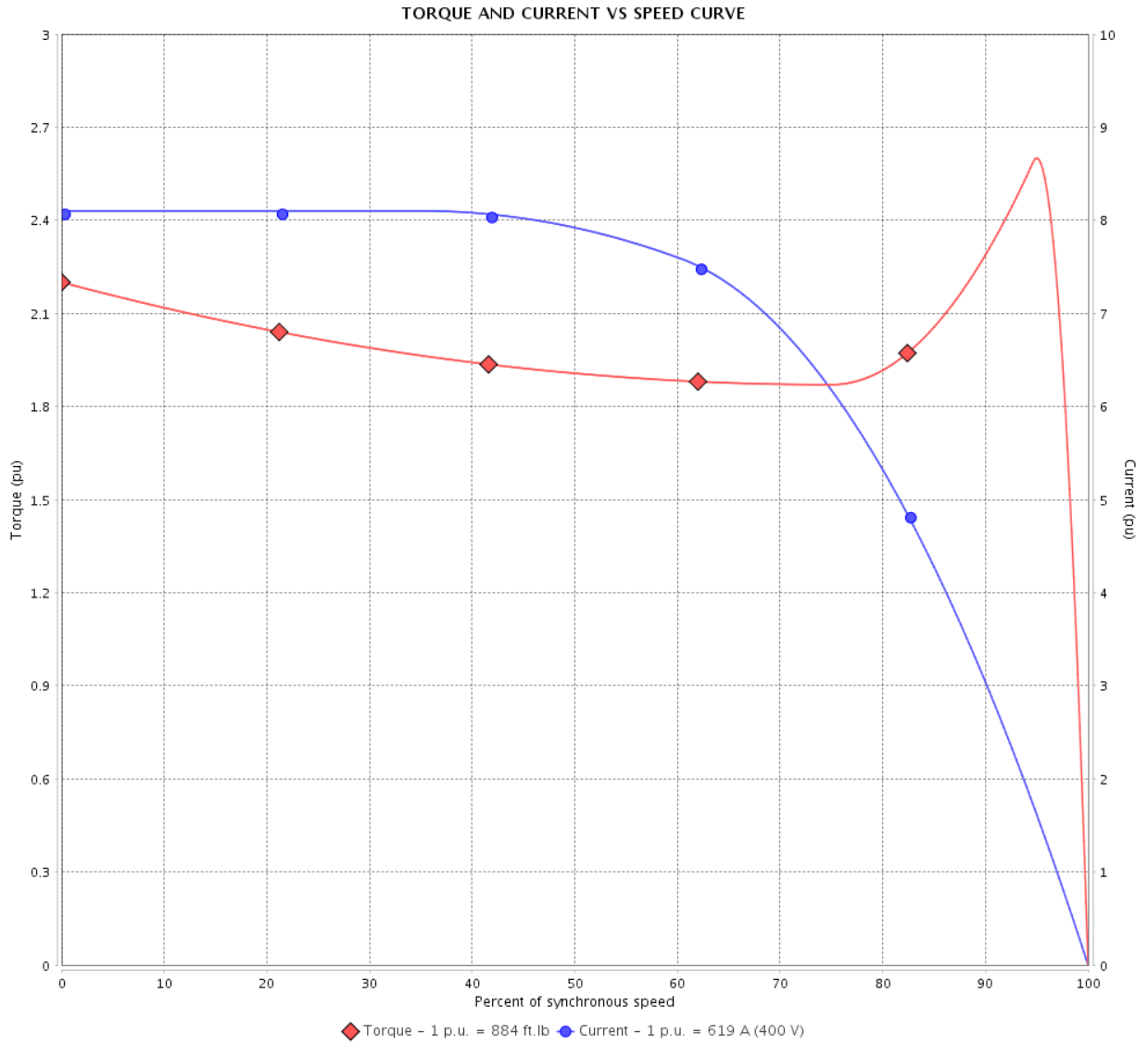
Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W40 NEMA Premium Efficiency
Three-Phase

Product code : 13621557

Catalog # : 60036OT3G447/9TS-W40



Performance : 400 V 50 Hz 2P IE3

Rated current	: 619 A	Moment of inertia (J)	: 53.6 sq.ft.lb
LRC	: 8.1	Duty cycle	: Cont.(S1)
Rated torque	: 884 ft.lb	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.15
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 2970 rpm		

Locked rotor time : 18s (cold) 10s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

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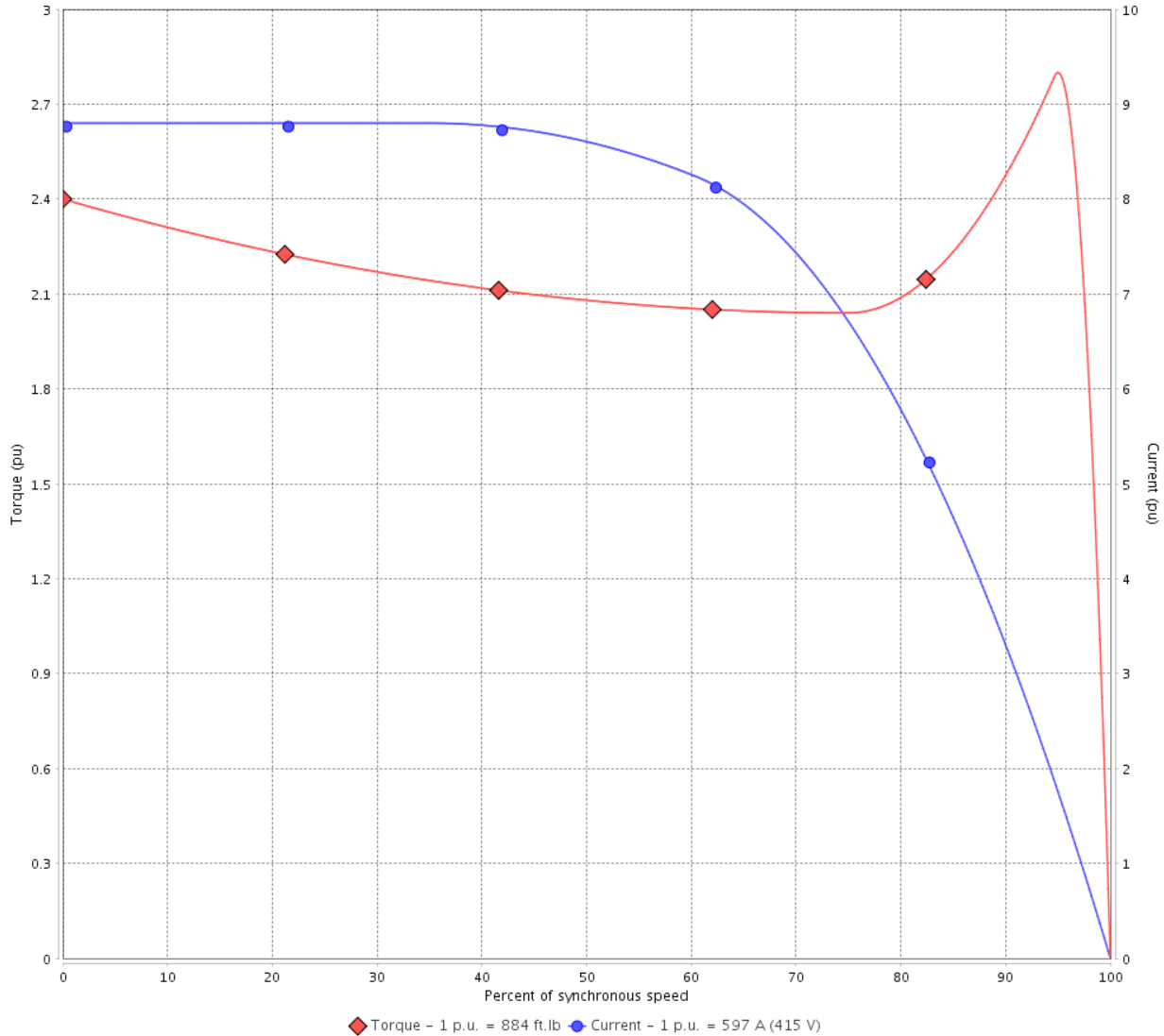
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TORQUE AND CURRENT VS SPEED CURVE



Performance : 415 V 50 Hz 2P IE3

Rated current	: 597 A	Moment of inertia (J)	: 53.6 sq.ft.lb
LRC	: 8.8	Duty cycle	: Cont.(S1)
Rated torque	: 884 ft.lb	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.15
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 2970 rpm		

Locked rotor time : 18s (cold) 10s (hot)

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TORQUE AND CURRENT VS SPEED CURVE



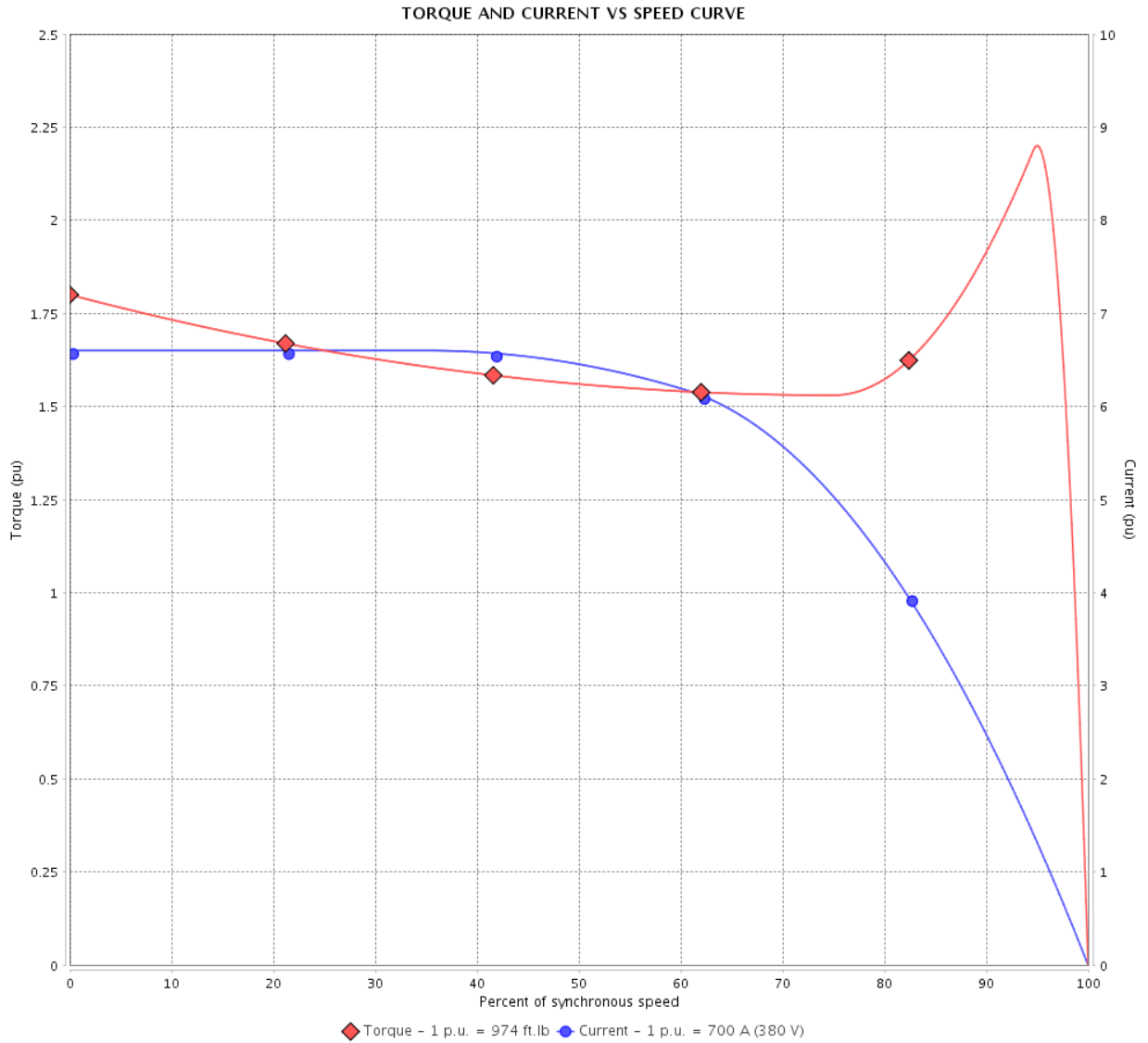
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Customer :

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Product code : 13621557

Catalog # : 60036OT3G447/9TS-W40



Performance : 380 V 50 Hz 2P IE1

Rated current : 700 A
LRC : 6.6
Rated torque : 974 ft.lb
Locked rotor torque : 180 %
Breakdown torque : 220 %
Rated speed : 2965 rpm

Moment of inertia (J) : 53.6 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 105 K

Locked rotor time : 18s (cold) 10s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

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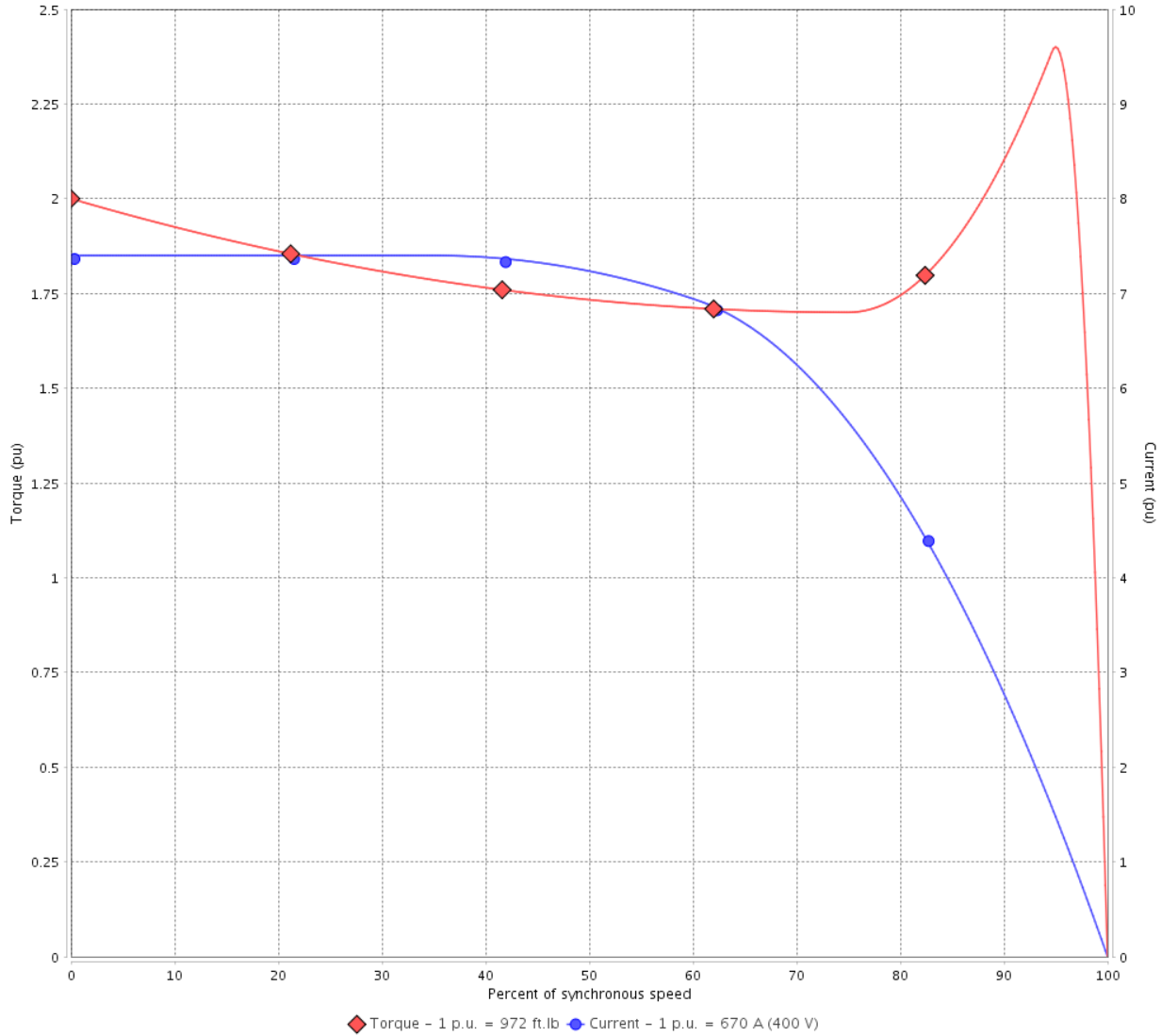
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TORQUE AND CURRENT VS SPEED CURVE



Performance : 400 V 50 Hz 2P IE1

Rated current	: 670 A	Moment of inertia (J)	: 53.6 sq.ft.lb
LRC	: 7.4	Duty cycle	: Cont.(S1)
Rated torque	: 972 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.00
Breakdown torque	: 240 %	Temperature rise	: 105 K
Rated speed	: 2970 rpm		

Locked rotor time : 18s (cold) 10s (hot)

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TORQUE AND CURRENT VS SPEED CURVE



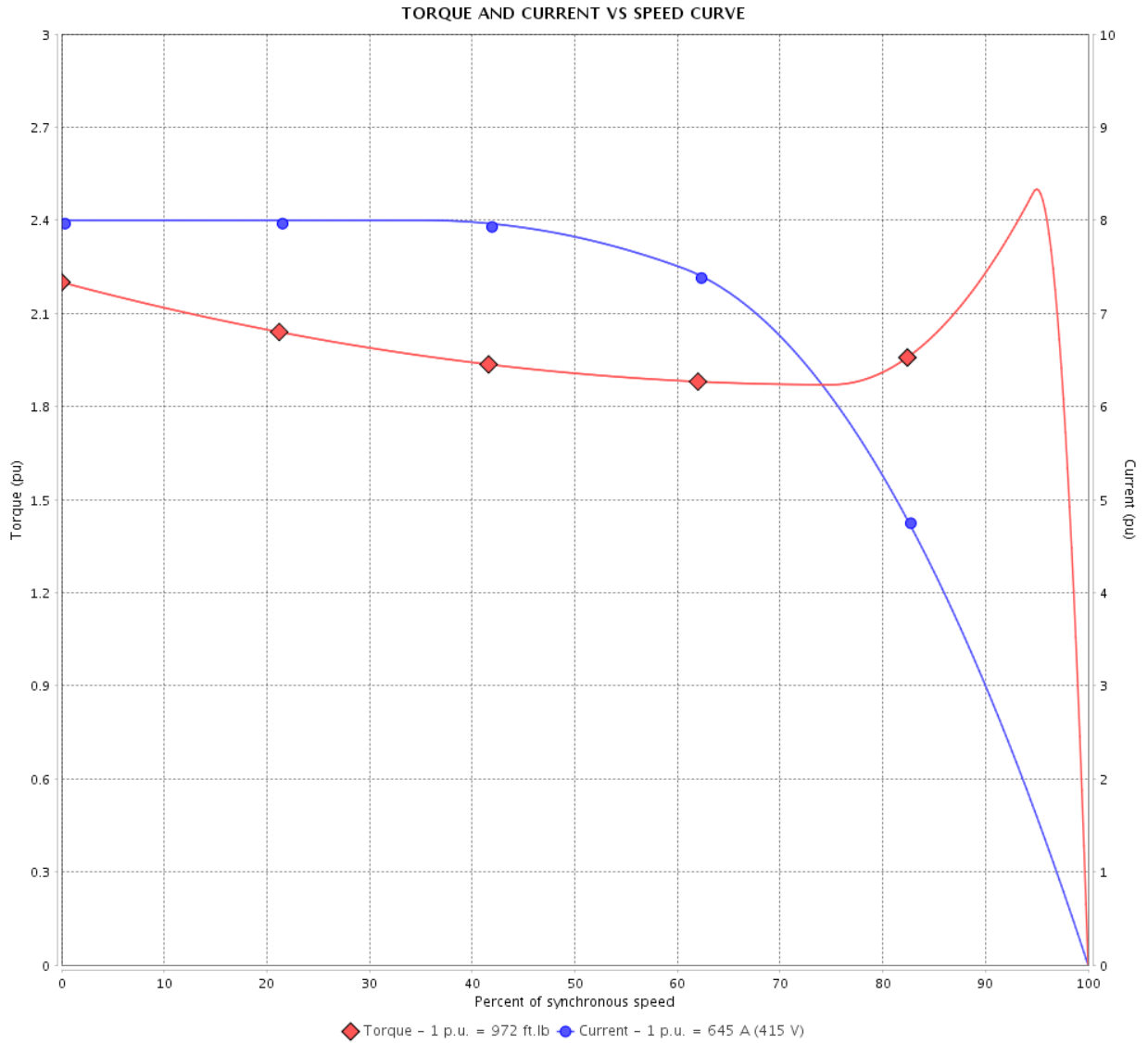
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Product code : 13621557

Catalog # : 60036OT3G447/9TS-W40



Performance : 415 V 50 Hz 2P IE1

Rated current	: 645 A	Moment of inertia (J)	: 53.6 sq.ft.lb
LRC	: 8.0	Duty cycle	: Cont.(S1)
Rated torque	: 972 ft.lb	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.00
Breakdown torque	: 250 %	Temperature rise	: 105 K
Rated speed	: 2970 rpm		

Locked rotor time : 18s (cold) 10s (hot)

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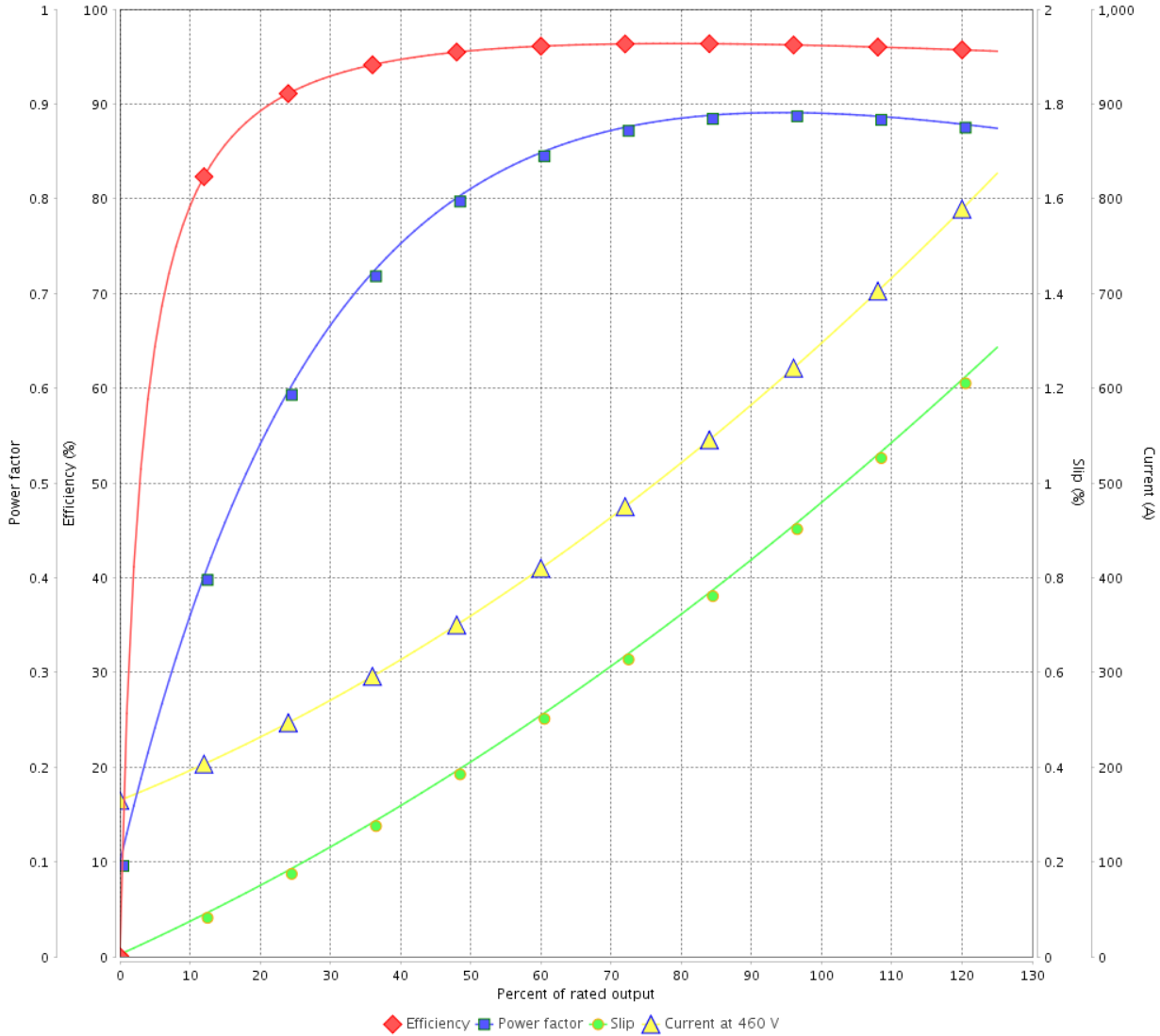
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Performance : 460 V 60 Hz 2P

Rated current : 645 A
 LRC : 7.9
 Rated torque : 884 ft.lb
 Locked rotor torque : 190 %
 Breakdown torque : 270 %
 Rated speed : 3565 rpm

Moment of inertia (J) : 53.6 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K

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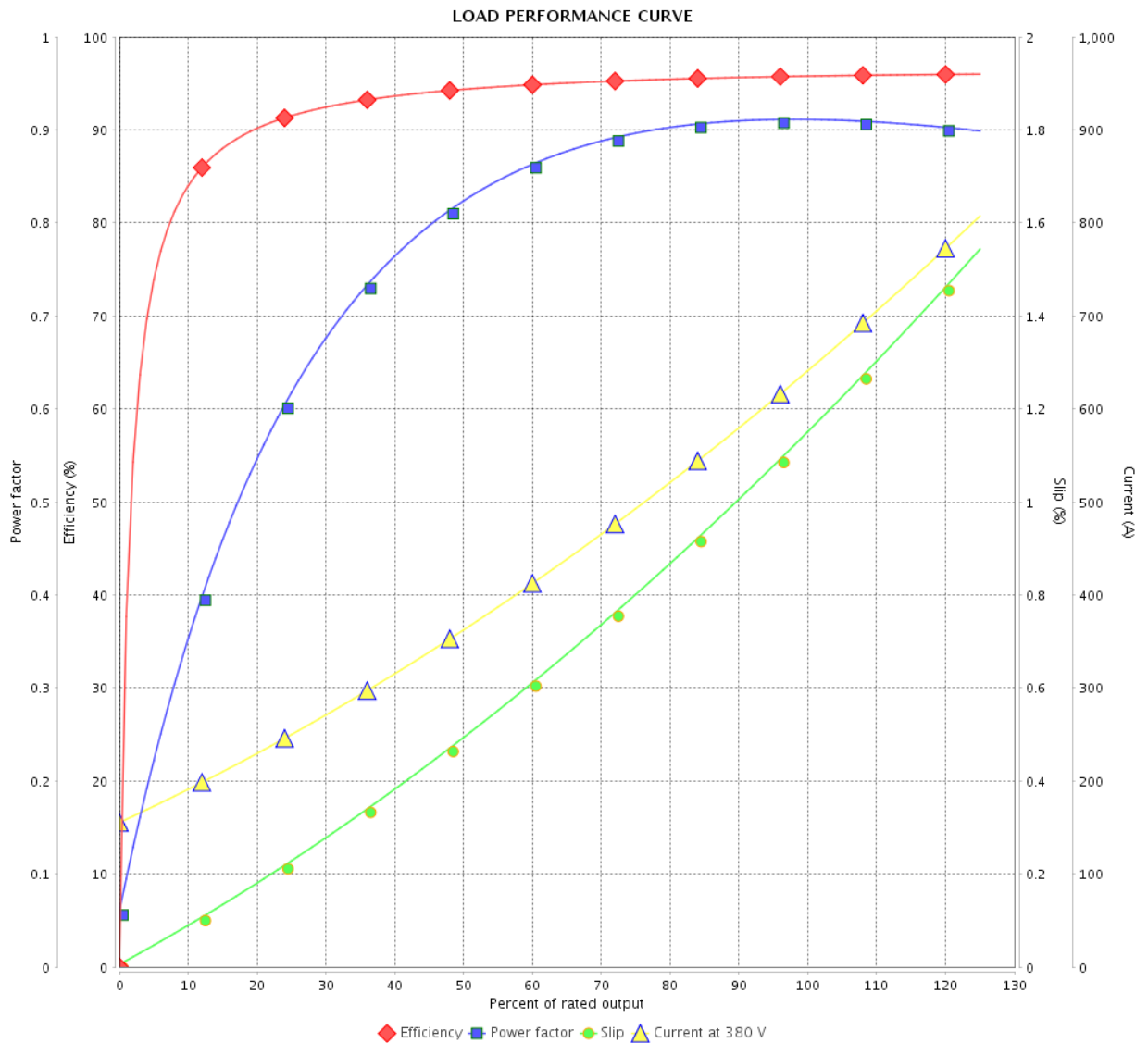


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Product code : 13621557

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Performance : 380 V 50 Hz 2P IE3

Rated current : 645 A
 LRC : 7.3
 Rated torque : 886 ft.lb
 Locked rotor torque : 200 %
 Breakdown torque : 240 %
 Rated speed : 2965 rpm

Moment of inertia (J) : 53.6 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 105 K

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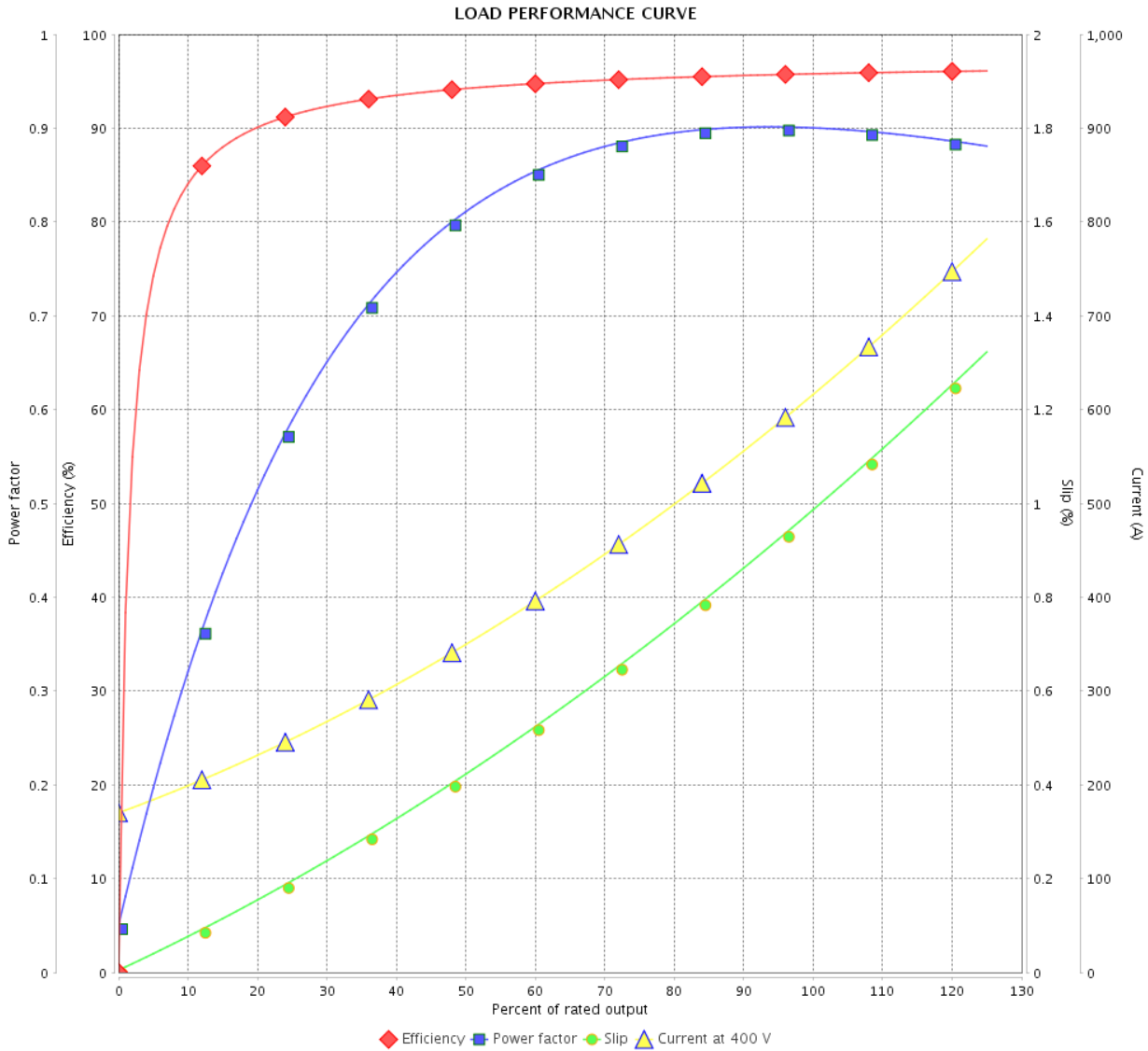


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Performance : 400 V 50 Hz 2P IE3

Rated current : 619 A
 LRC : 8.1
 Rated torque : 884 ft.lb
 Locked rotor torque : 220 %
 Breakdown torque : 260 %
 Rated speed : 2970 rpm

Moment of inertia (J) : 53.6 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K

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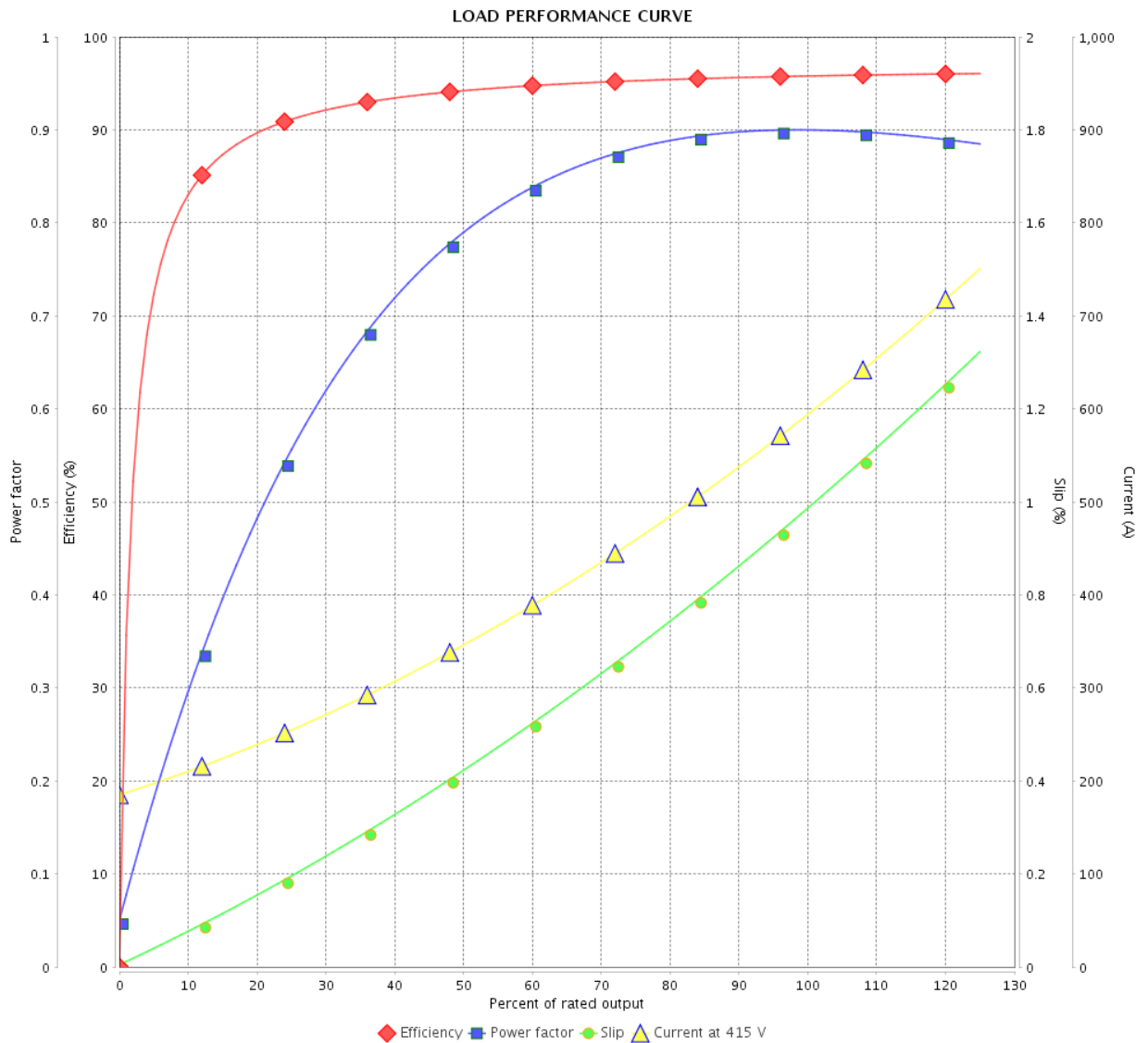


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Performance : 415 V 50 Hz 2P IE3

Rated current : 597 A
 LRC : 8.8
 Rated torque : 884 ft.lb
 Locked rotor torque : 240 %
 Breakdown torque : 280 %
 Rated speed : 2970 rpm

Moment of inertia (J) : 53.6 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K

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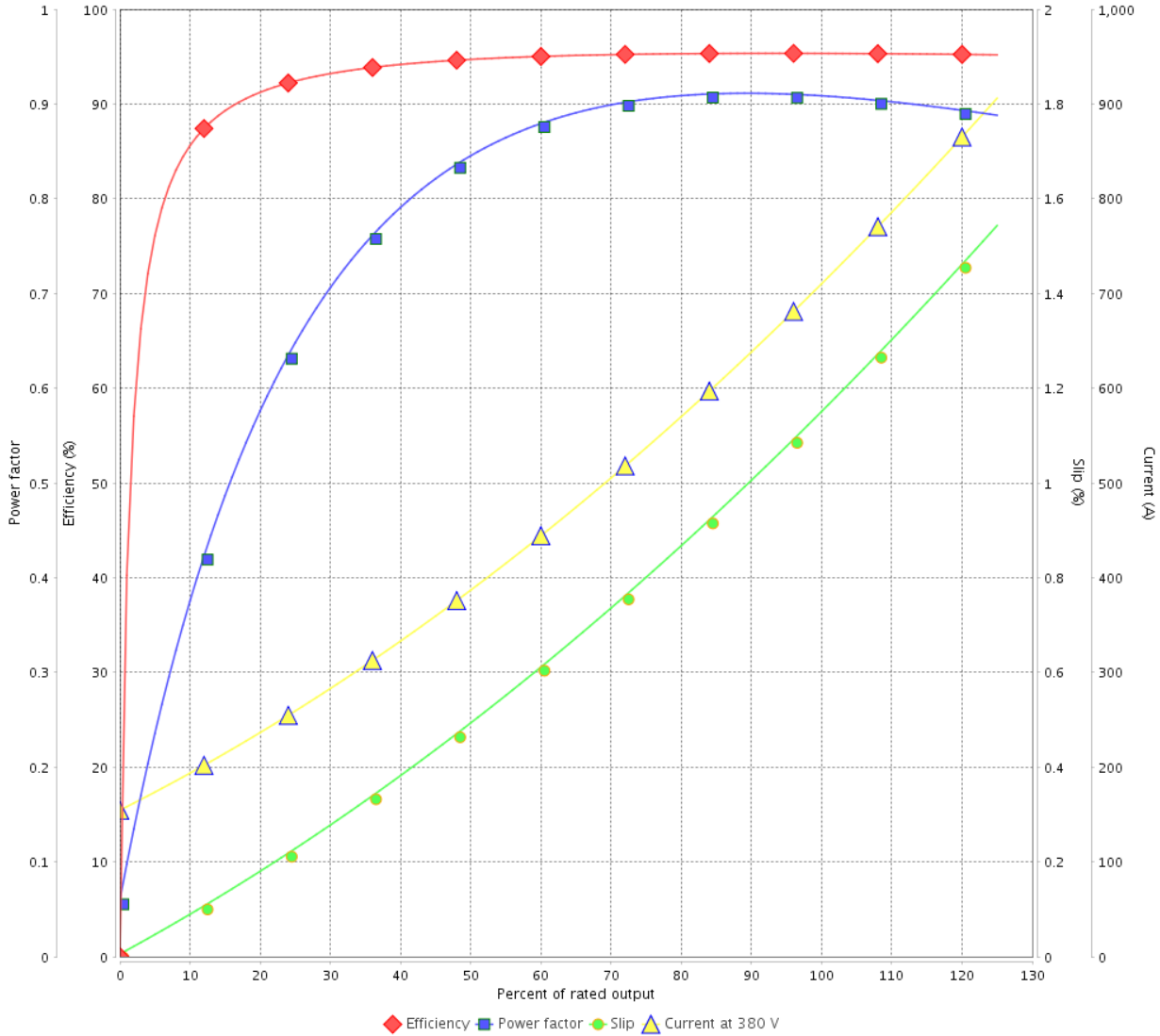
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Performance : 380 V 50 Hz 2P IE1

Rated current : 700 A
LRC : 6.6
Rated torque : 974 ft.lb
Locked rotor torque : 180 %
Breakdown torque : 220 %
Rated speed : 2965 rpm

Moment of inertia (J) : 53.6 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 105 K

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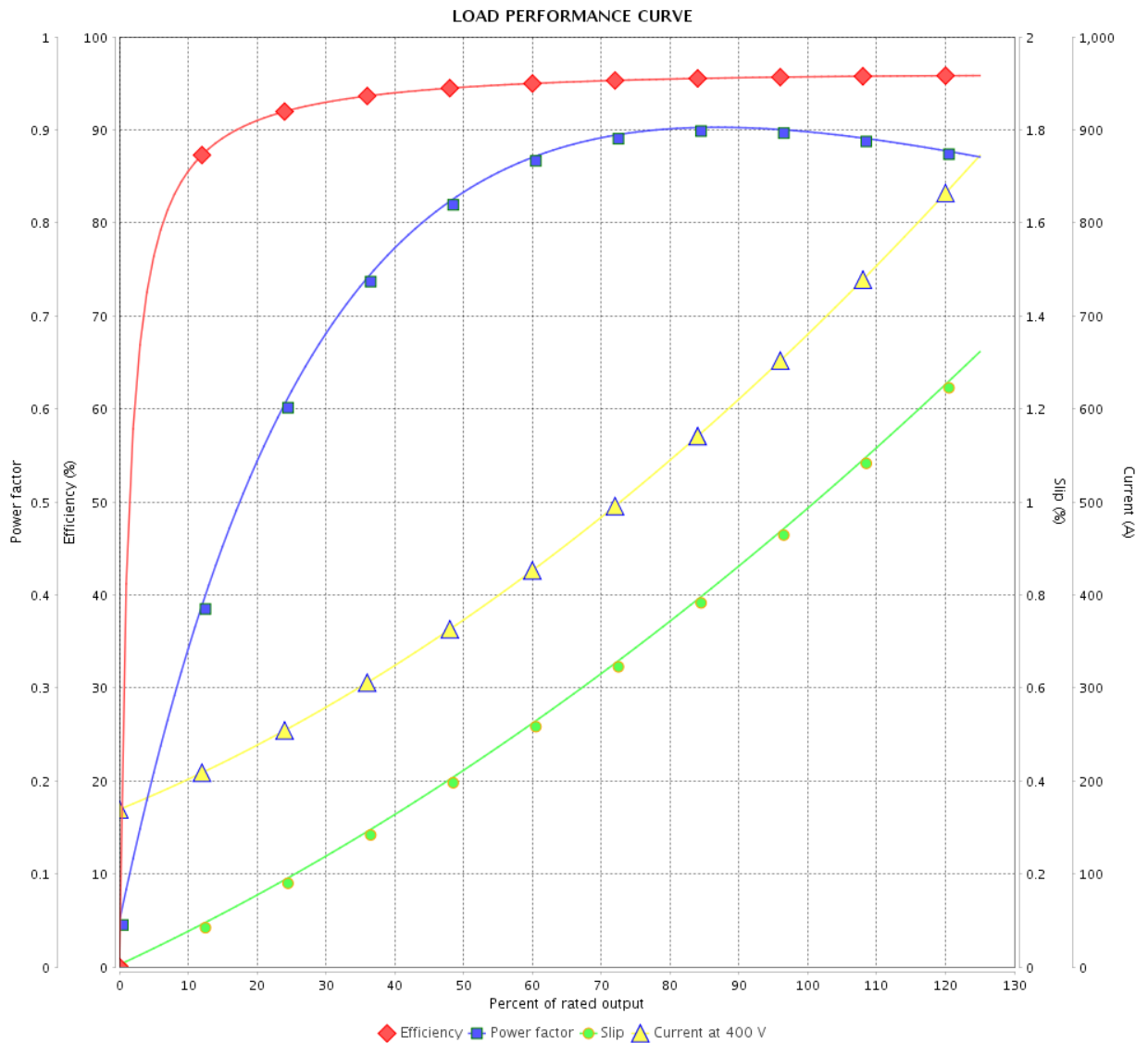


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Performance : 400 V 50 Hz 2P IE1

Rated current : 670 A
 LRC : 7.4
 Rated torque : 972 ft.lb
 Locked rotor torque : 200 %
 Breakdown torque : 240 %
 Rated speed : 2970 rpm

Moment of inertia (J) : 53.6 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K

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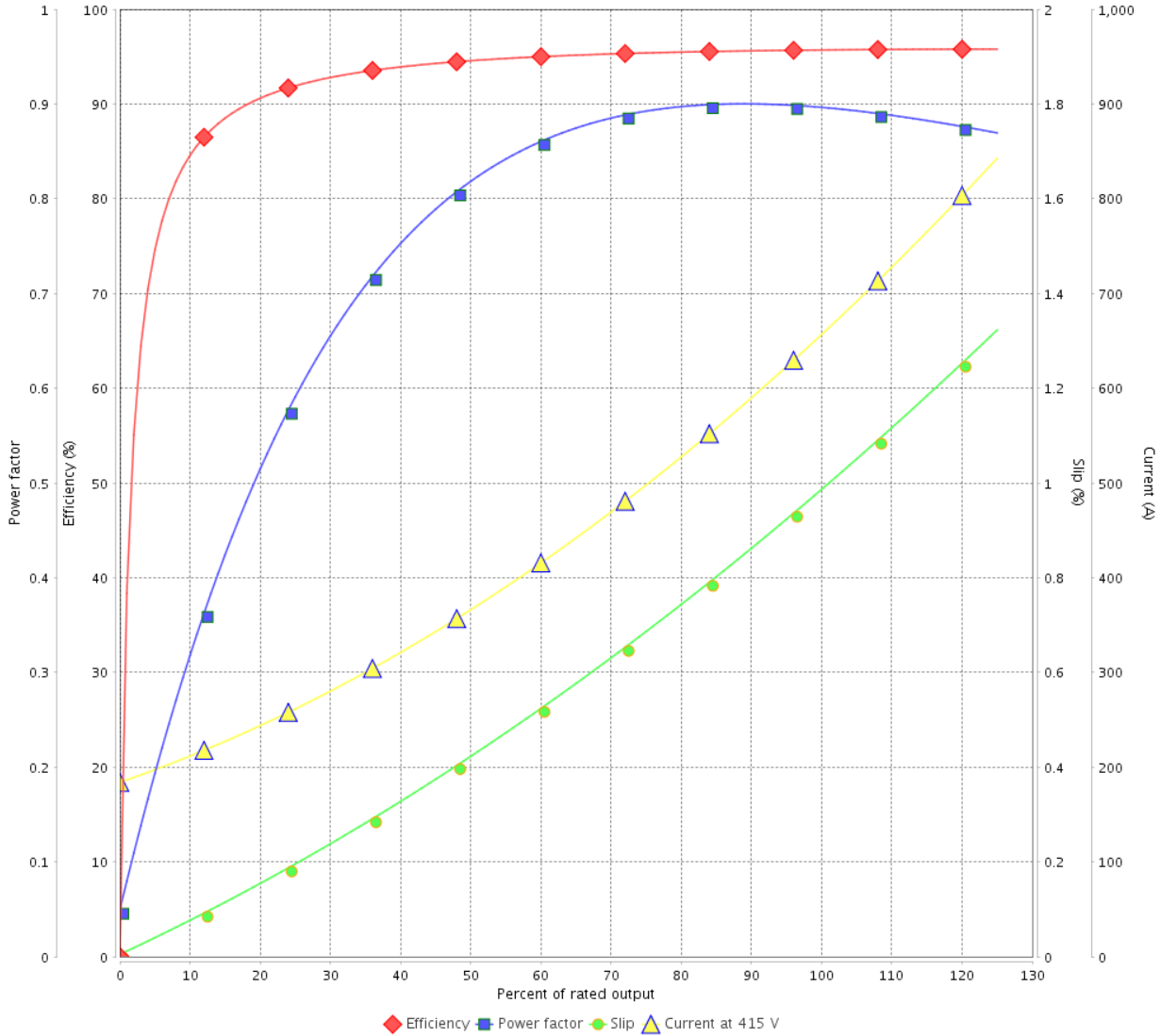
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Performance : 415 V 50 Hz 2P IE1

Rated current : 645 A
 LRC : 8.0
 Rated torque : 972 ft.lb
 Locked rotor torque : 220 %
 Breakdown torque : 250 %
 Rated speed : 2970 rpm

Moment of inertia (J) : 53.6 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K

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LRC : 7.9	Duty cycle : Cont.(S1)
Rated torque : 884 ft.lb	Insulation class : F
Locked rotor torque : 190 %	Service factor : 1.15
Breakdown torque : 270 %	Temperature rise : 80 K
Rated speed : 3565 rpm	

Heating constant

Cooling constant

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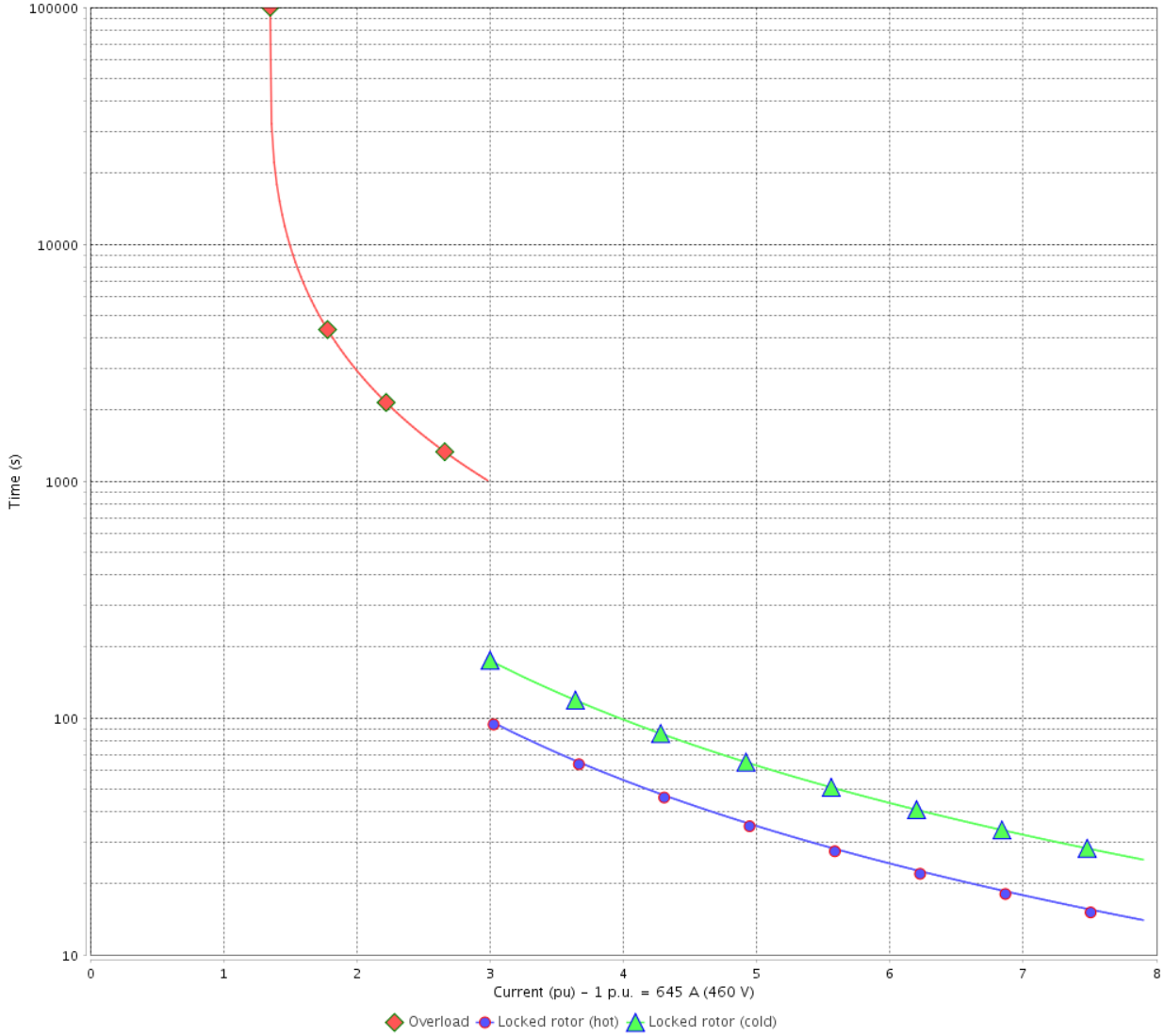
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Rated current : 645 A	Moment of inertia (J) : 53.6 sq.ft.lb
LRC : 7.3	Duty cycle : Cont.(S1)
Rated torque : 886 ft.lb	Insulation class : F
Locked rotor torque : 200 %	Service factor : 1.15
Breakdown torque : 240 %	Temperature rise : 105 K
Rated speed : 2965 rpm	

Heating constant

Cooling constant

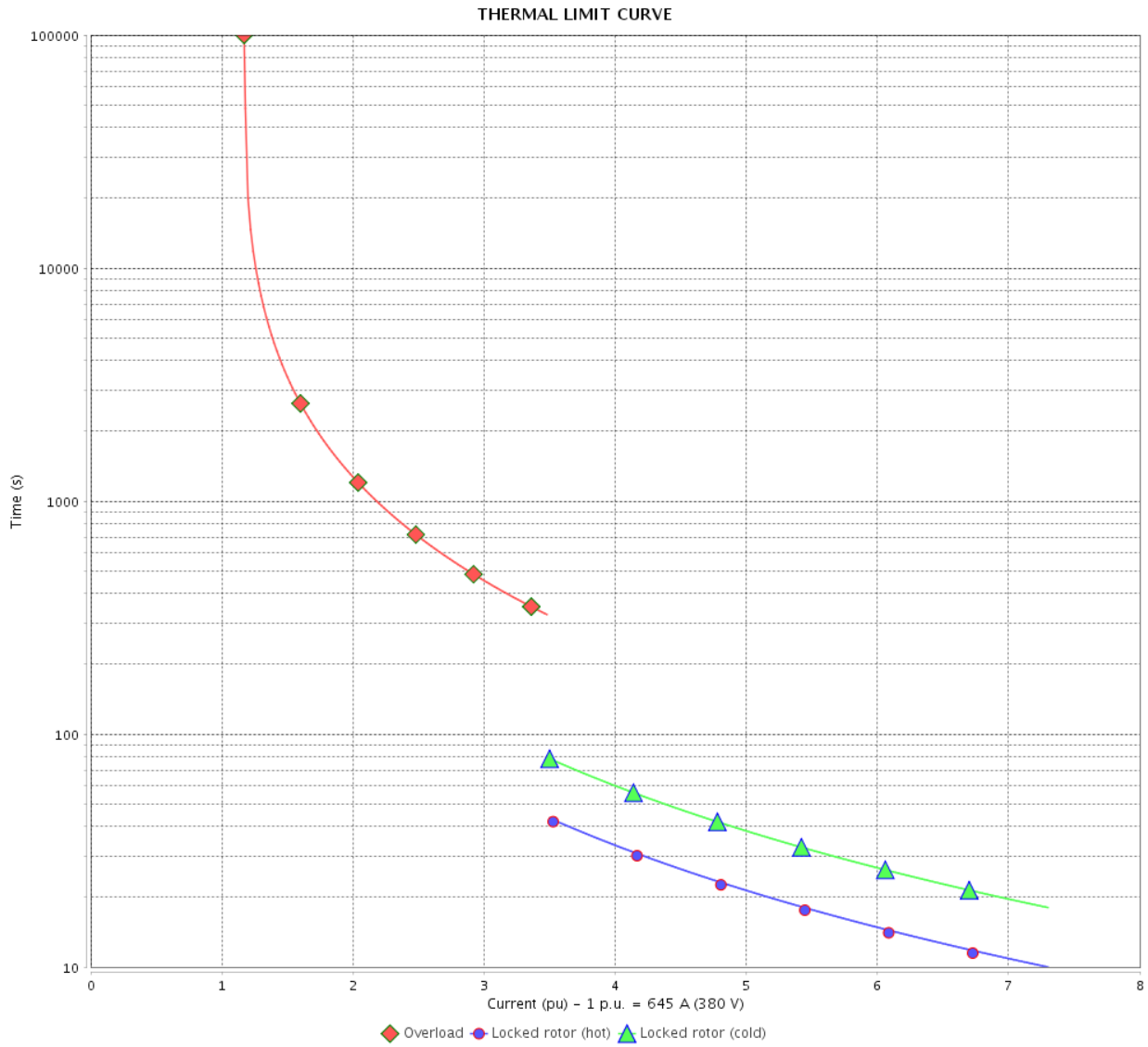
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Breakdown torque : 260 %
Rated speed : 2970 rpm

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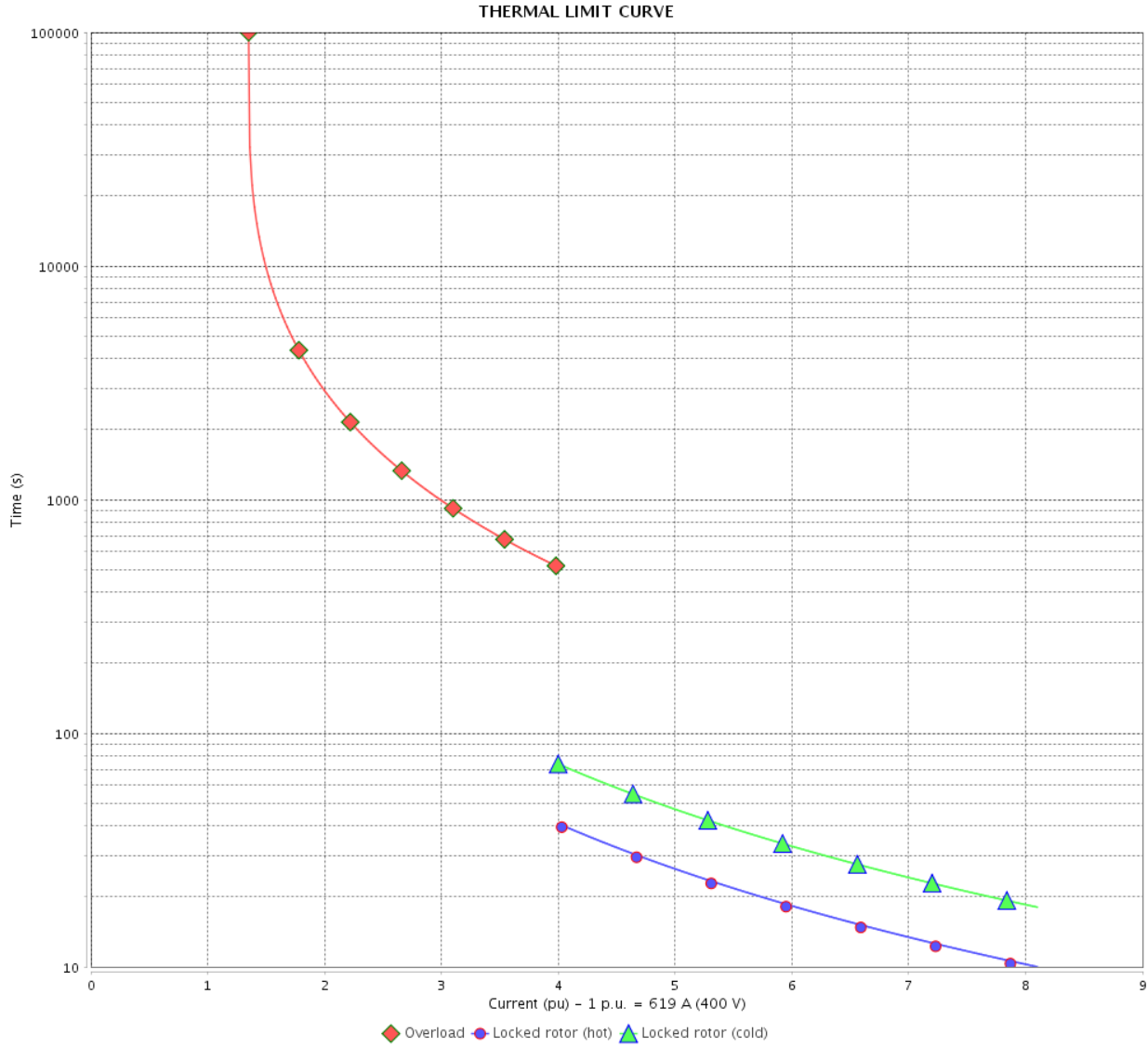
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Heating constant

Cooling constant

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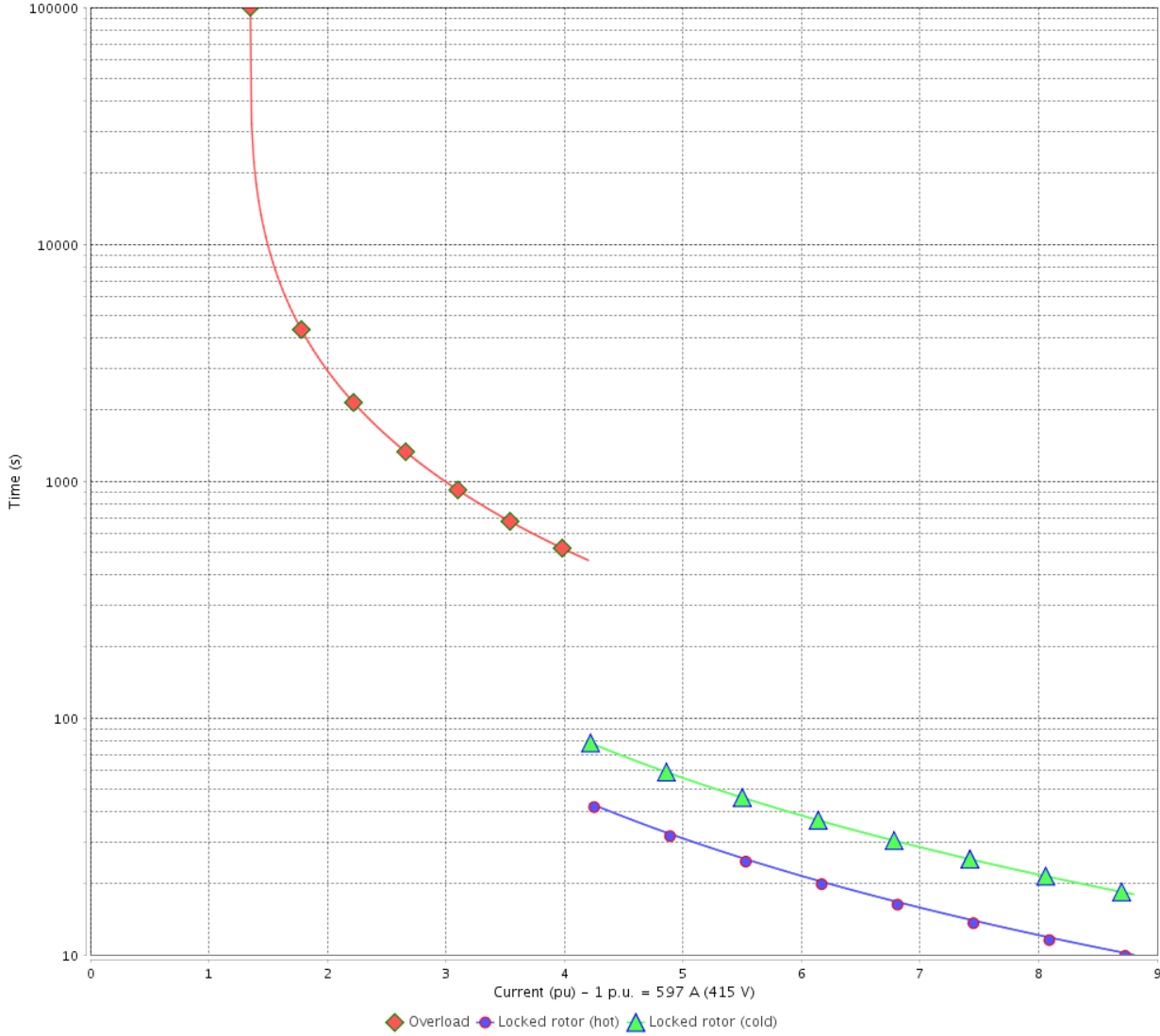
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Rated speed : 2965 rpm	

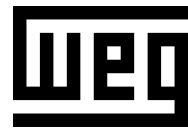
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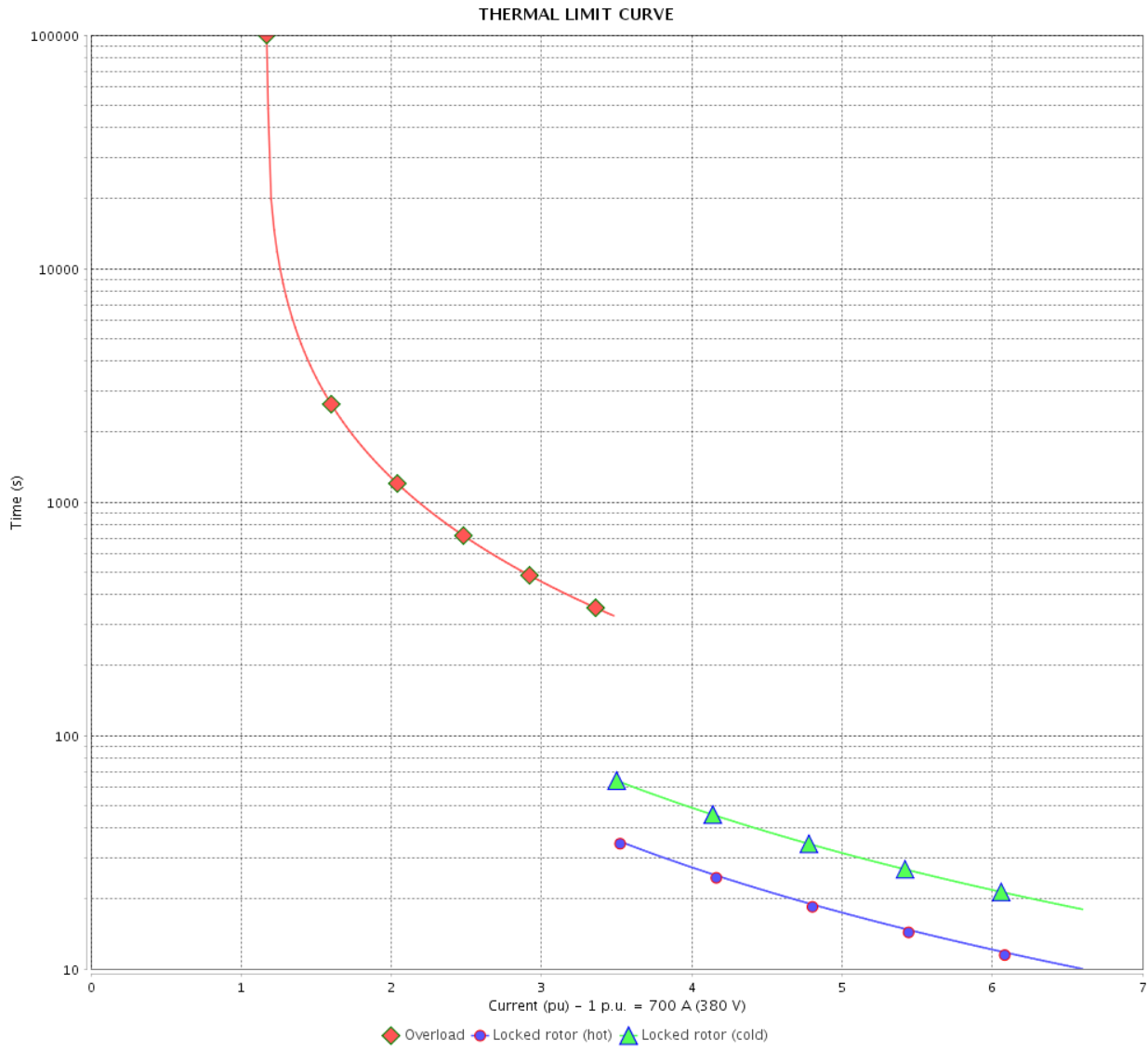
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 Catalog # : 60036OT3G447/9TS-W40

Performance : 400 V 50 Hz 2P IE1

Rated current : 670 A	Moment of inertia (J) : 53.6 sq.ft.lb
LRC : 7.4	Duty cycle : Cont.(S1)
Rated torque : 972 ft.lb	Insulation class : F
Locked rotor torque : 200 %	Service factor : 1.00
Breakdown torque : 240 %	Temperature rise : 105 K
Rated speed : 2970 rpm	

Heating constant

Cooling constant

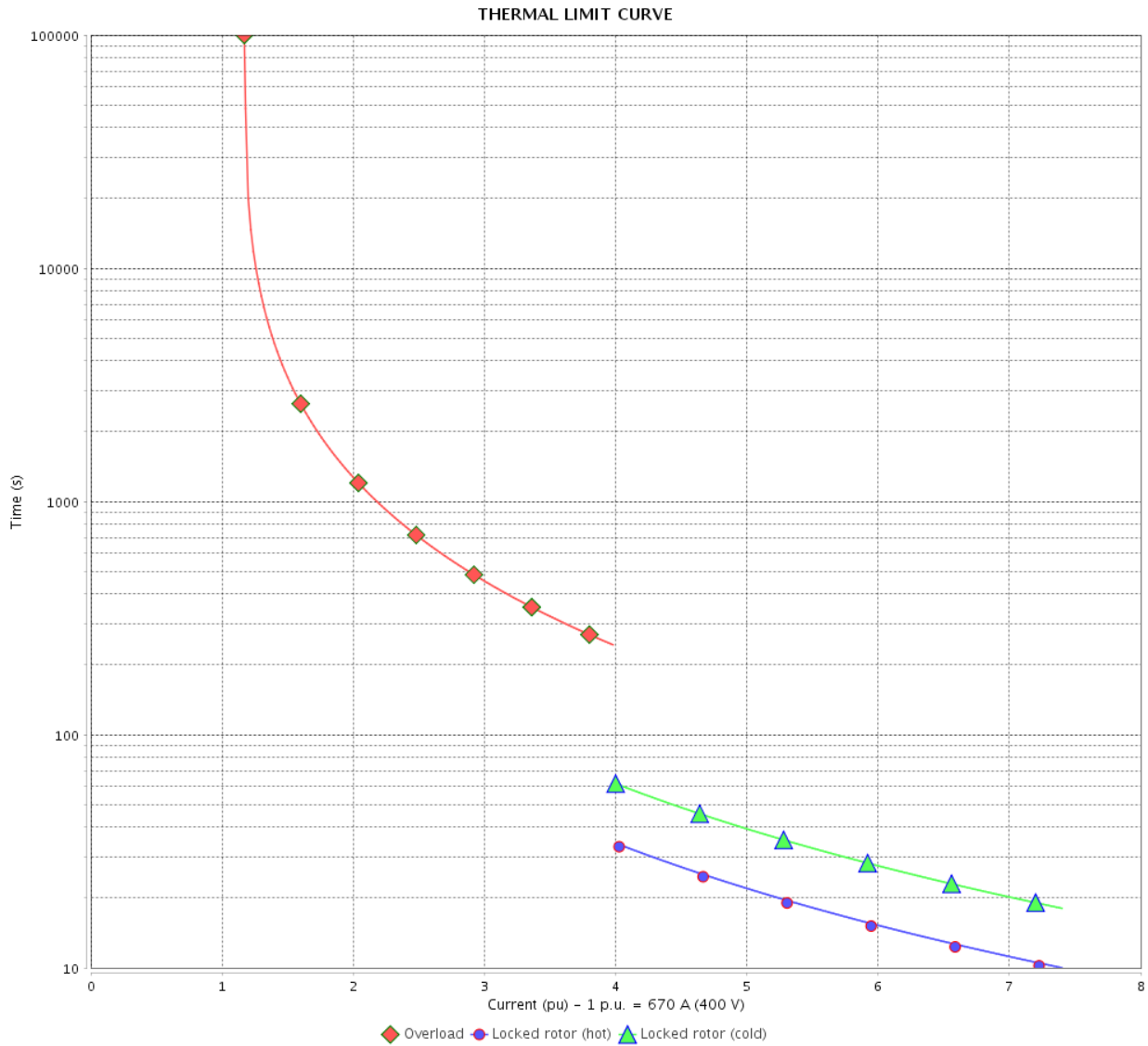
Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 27 / 37	Revision
Checked by				
Date	12/04/2022			

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		12/04/2022		

THERMAL LIMIT CURVE



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase Product code : 13621557
 Catalog # : 60036OT3G447/9TS-W40

Performance : 415 V 50 Hz 2P IE1

Rated current : 645 A	Moment of inertia (J) : 53.6 sq.ft.lb
LRC : 8.0	Duty cycle : Cont.(S1)
Rated torque : 972 ft.lb	Insulation class : F
Locked rotor torque : 220 %	Service factor : 1.00
Breakdown torque : 250 %	Temperature rise : 105 K
Rated speed : 2970 rpm	

Heating constant

Cooling constant

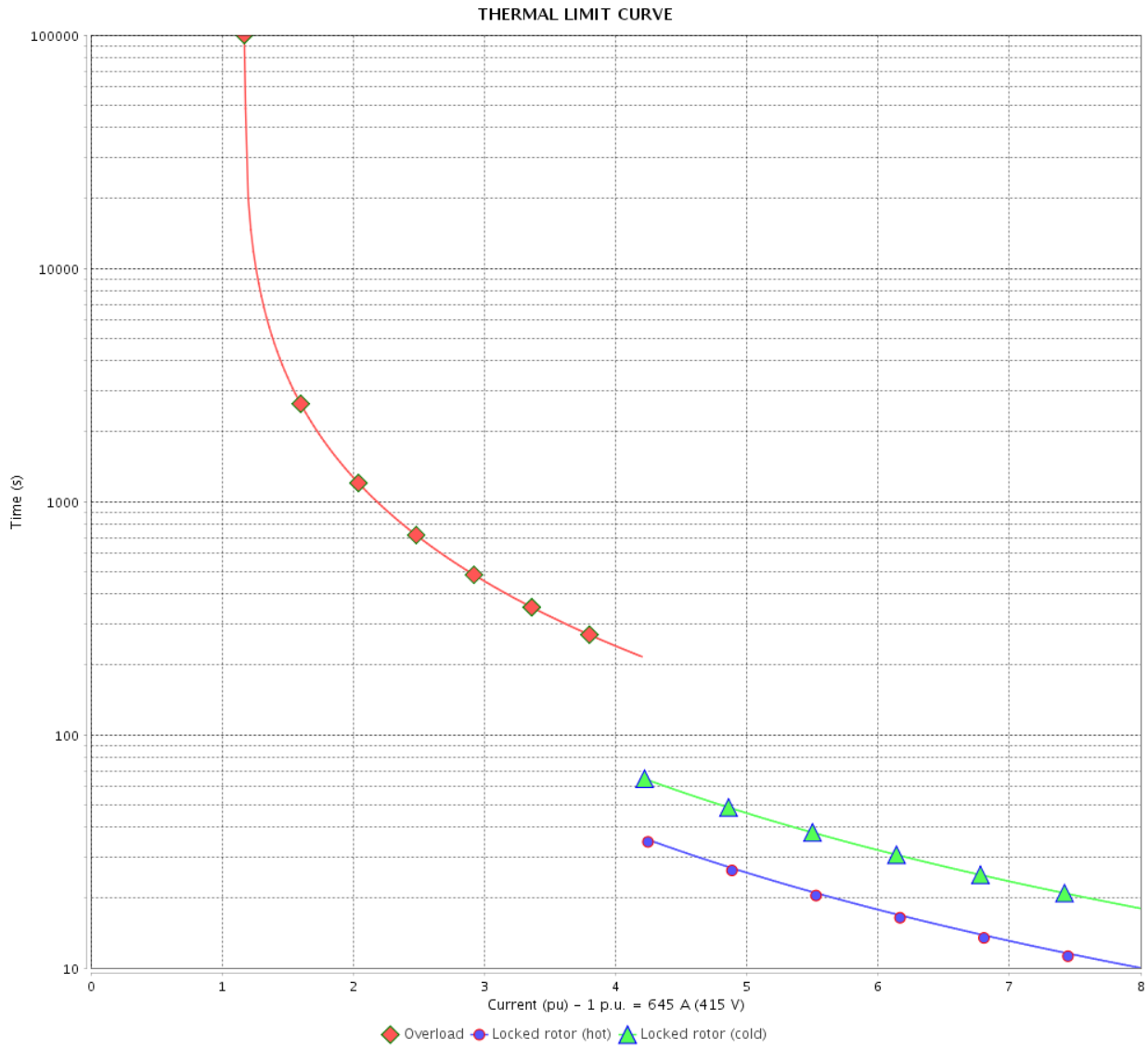
Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page	Revision
Checked by				
Date	12/04/2022			

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		12/04/2022		

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

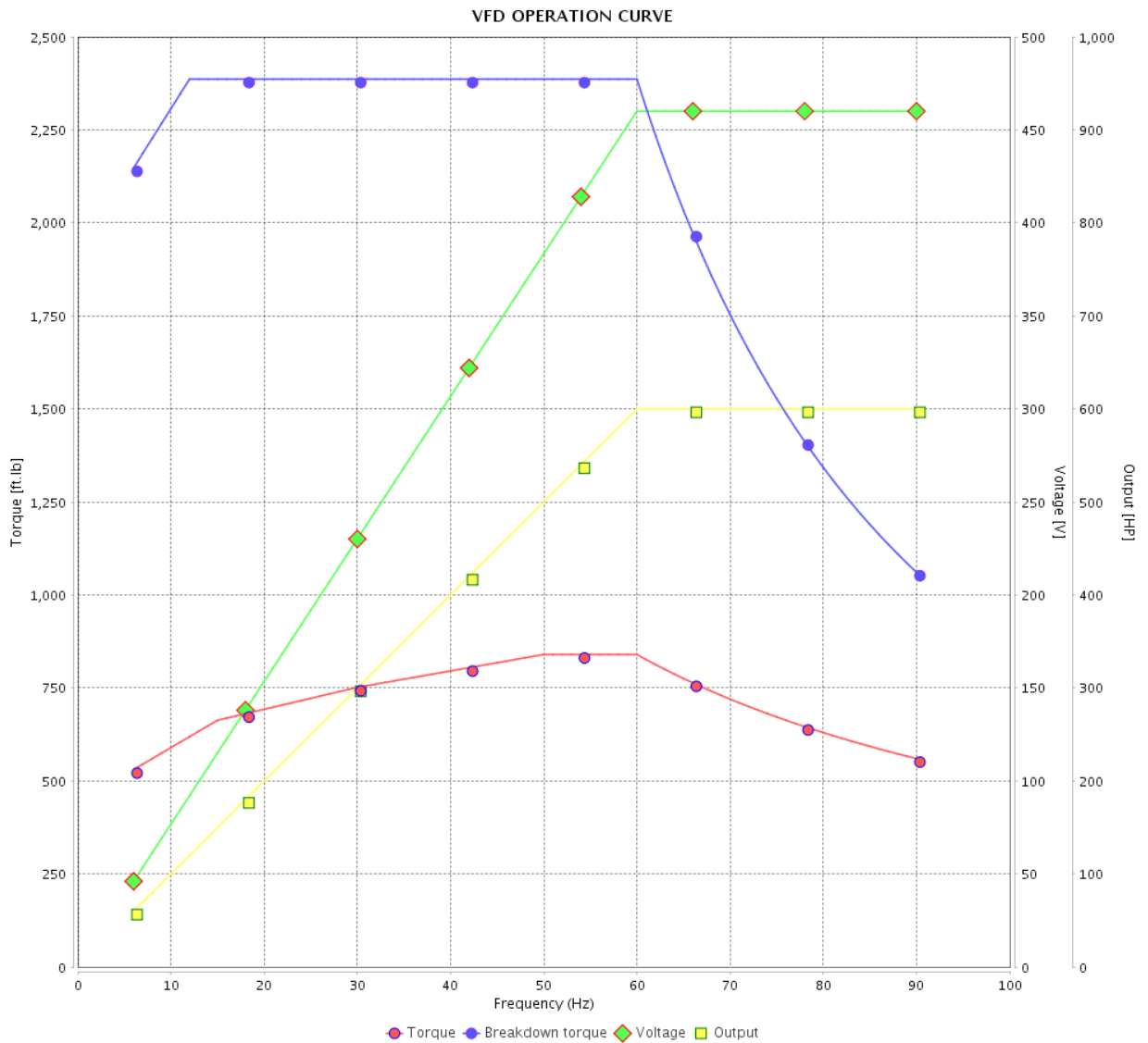


Customer :

Product line : W40 NEMA Premium Efficiency
Three-Phase

Product code : 13621557

Catalog # : 60036OT3G447/9TS-W40



Performance : 460 V 60 Hz 2P

Rated current : 645 A
 LRC : 7.9
 Rated torque : 884 ft.lb
 Locked rotor torque : 190 %
 Breakdown torque : 270 %
 Rated speed : 3565 rpm

Moment of inertia (J) : 53.6 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page		Revision
Checked by		31 / 37		
Date		12/04/2022		

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



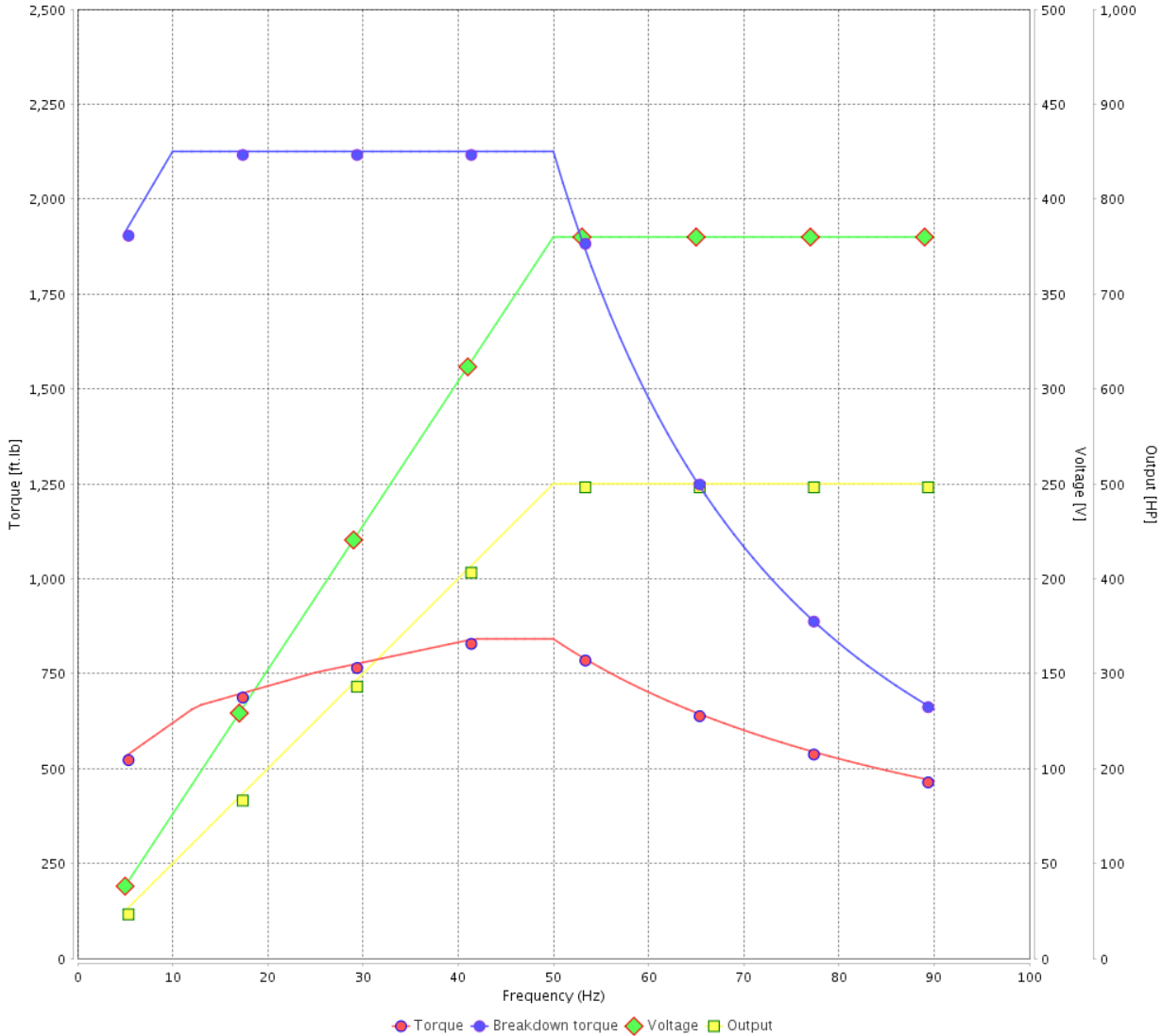
Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 13621557

Catalog # : 60036OT3G447/9TS-W40

VFD OPERATION CURVE



Performance : 380 V 50 Hz 2P IE3

Rated current : 645 A
 LRC : 7.3
 Rated torque : 886 ft.lb
 Locked rotor torque : 200 %
 Breakdown torque : 240 %
 Rated speed : 2965 rpm

Moment of inertia (J) : 53.6 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 105 K

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 32 / 37	Revision
Checked by				
Date	12/04/2022			

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

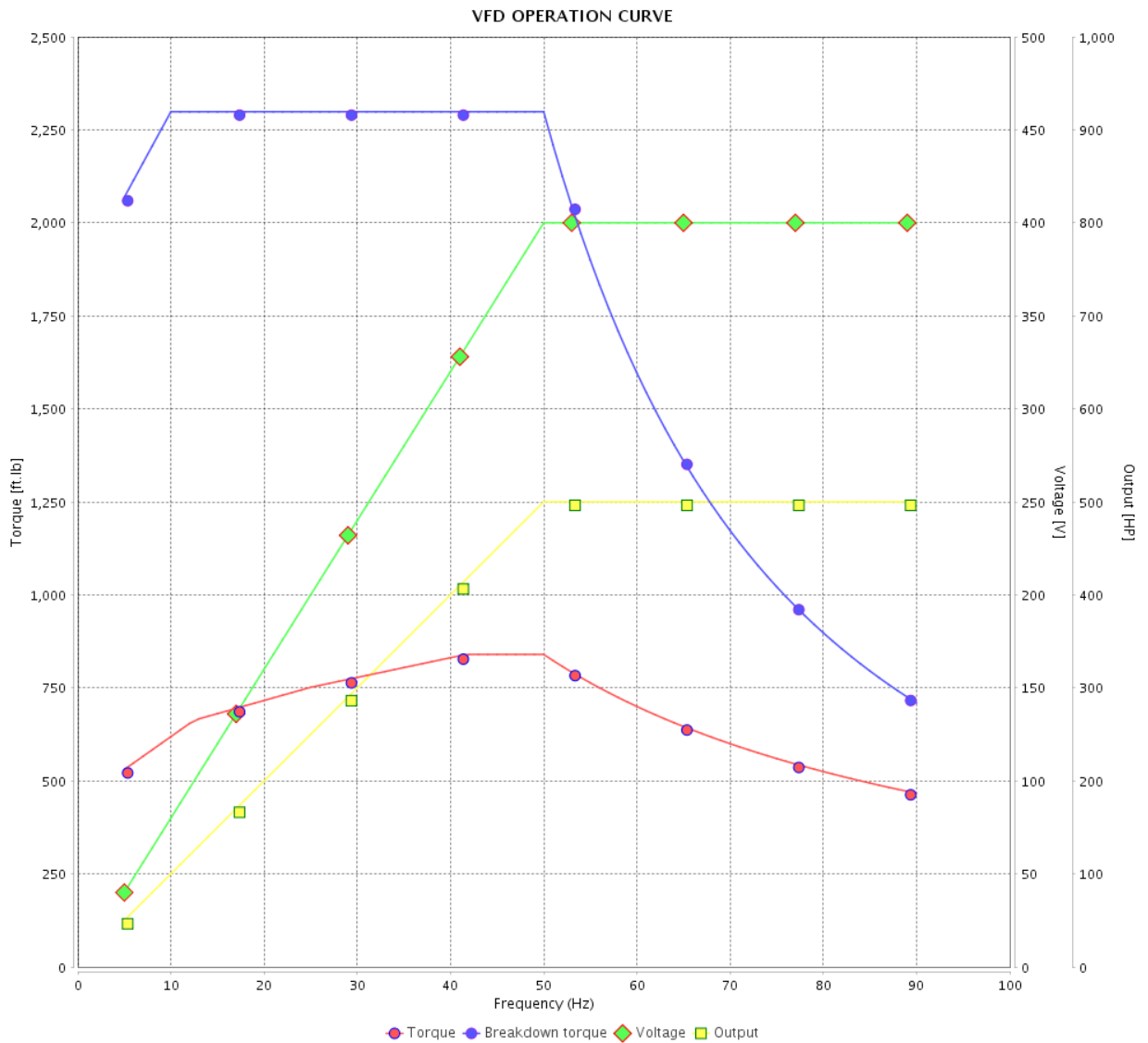


Customer :

Product line : W40 NEMA Premium Efficiency
Three-Phase

Product code : 13621557

Catalog # : 60036OT3G447/9TS-W40



Performance : 400 V 50 Hz 2P IE3

Rated current : 619 A
LRC : 8.1
Rated torque : 884 ft.lb
Locked rotor torque : 220 %
Breakdown torque : 260 %
Rated speed : 2970 rpm

Moment of inertia (J) : 53.6 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 33 / 37	Revision
Checked by				
Date	12/04/2022			

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

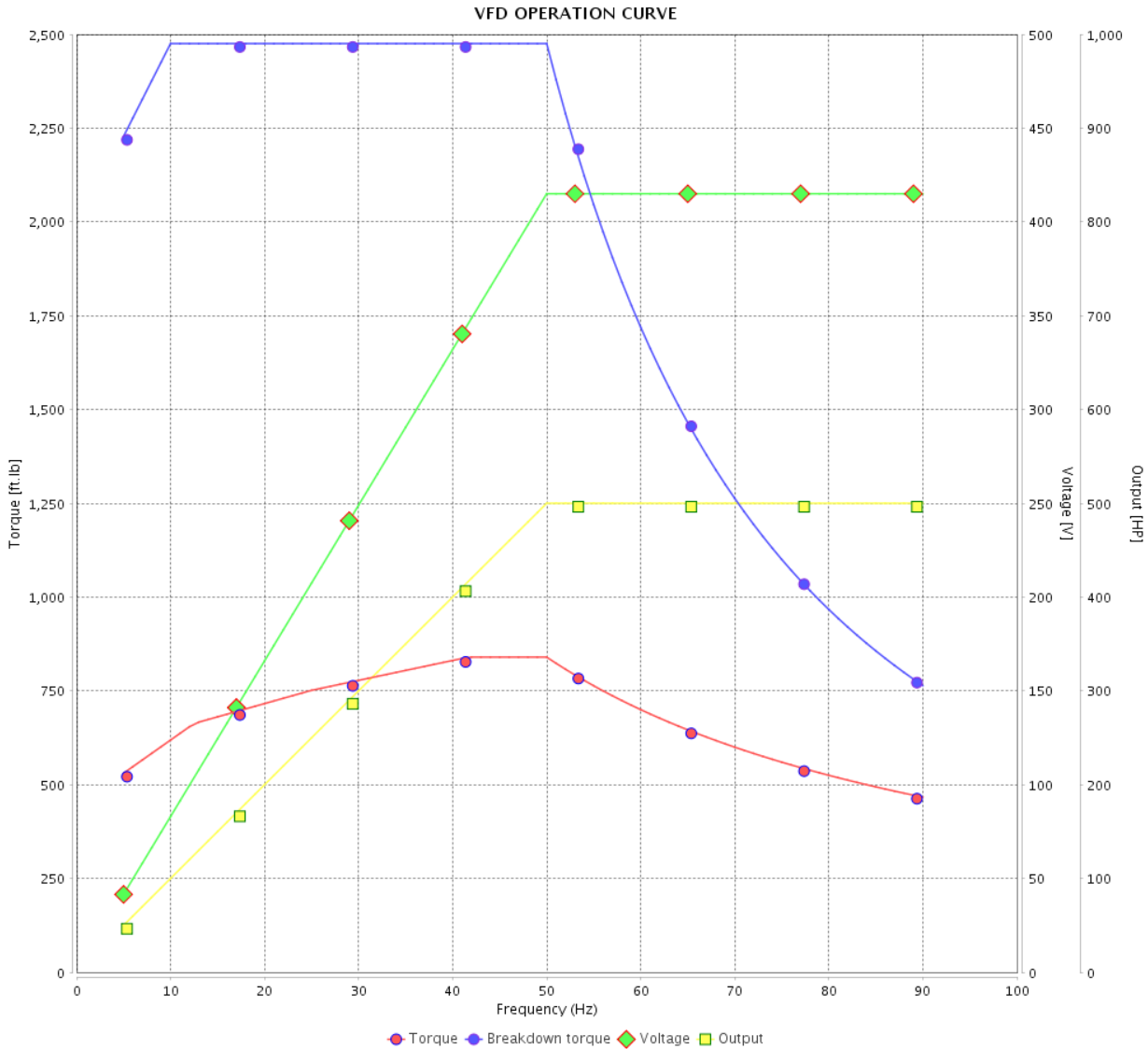


Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 13621557

Catalog # : 60036OT3G447/9TS-W40



Performance : 415 V 50 Hz 2P IE3

Rated current : 597 A
 LRC : 8.8
 Rated torque : 884 ft.lb
 Locked rotor torque : 240 %
 Breakdown torque : 280 %
 Rated speed : 2970 rpm

Moment of inertia (J) : 53.6 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 34 / 37	Revision
Checked by				
Date	12/04/2022			

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

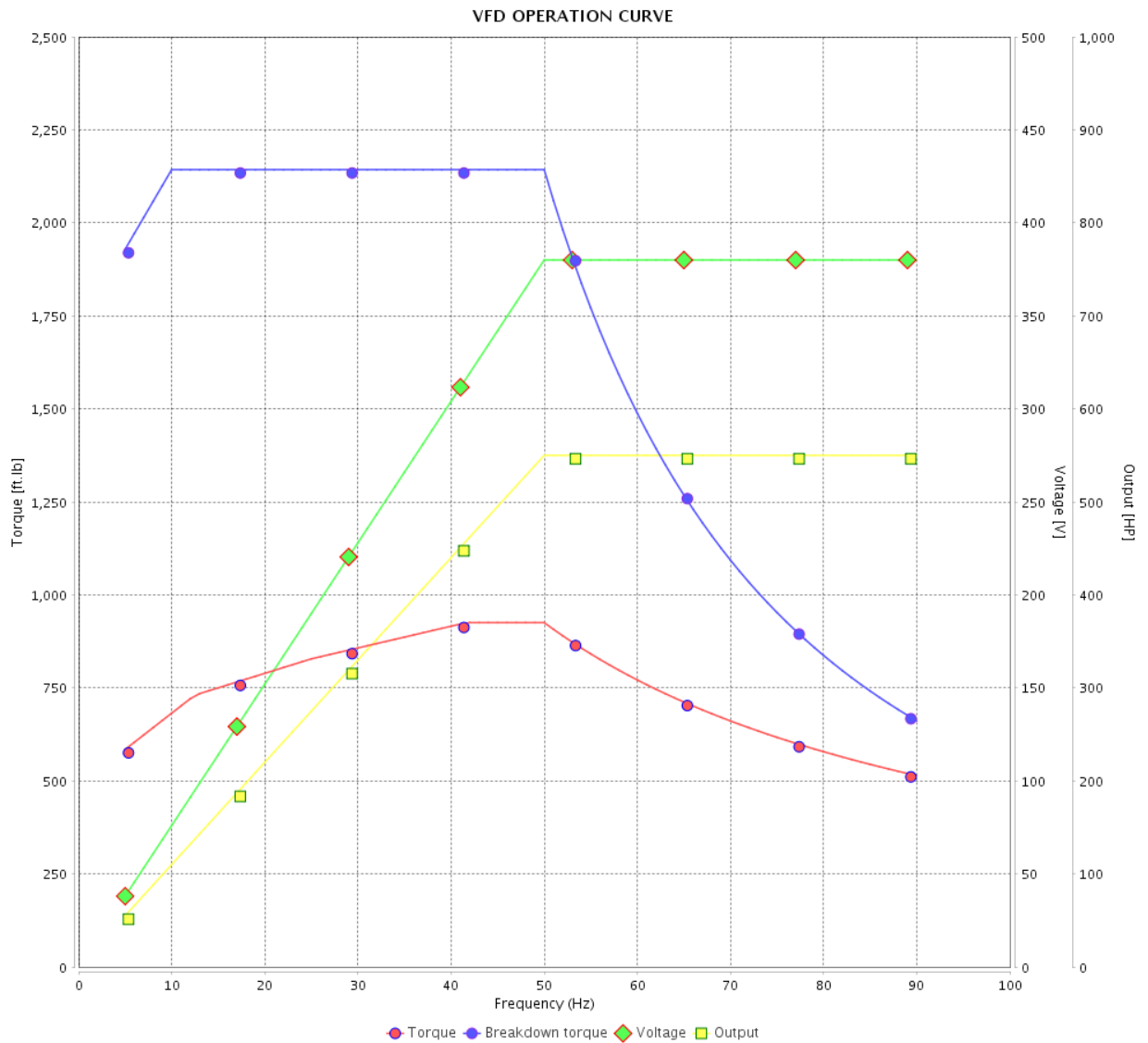


Customer :

Product line : W40 NEMA Premium Efficiency
Three-Phase

Product code : 13621557

Catalog # : 60036OT3G447/9TS-W40



Performance : 380 V 50 Hz 2P IE1

Rated current : 700 A
LRC : 6.6
Rated torque : 974 ft.lb
Locked rotor torque : 180 %
Breakdown torque : 220 %
Rated speed : 2965 rpm

Moment of inertia (J) : 53.6 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 105 K

Rev.	Changes Summary	Performed	Checked	Date
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Date	12/04/2022			

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

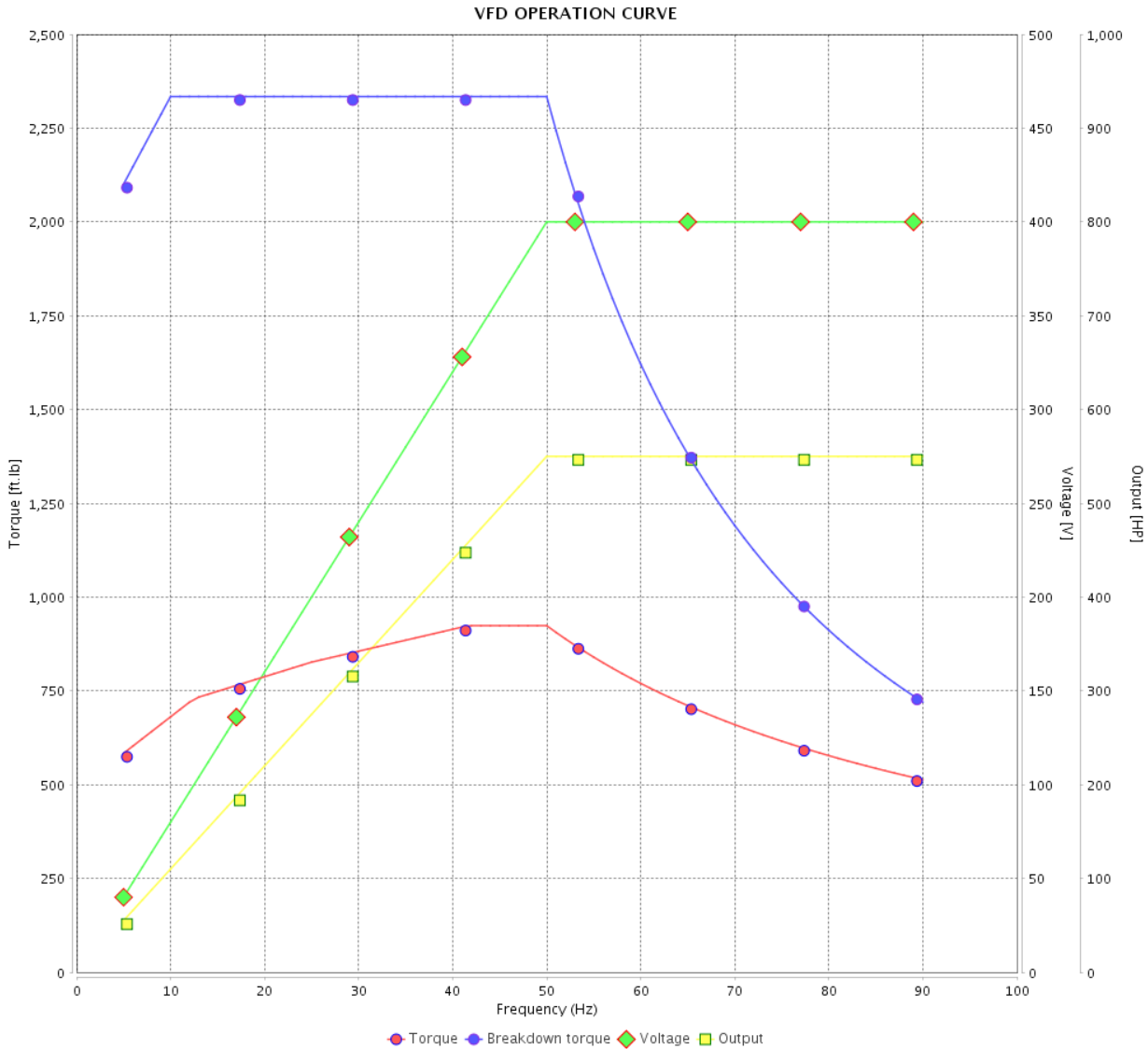


Customer :

Product line : W40 NEMA Premium Efficiency
Three-Phase

Product code : 13621557

Catalog # : 60036OT3G447/9TS-W40



Performance : 400 V 50 Hz 2P IE1

Rated current : 670 A
LRC : 7.4
Rated torque : 972 ft.lb
Locked rotor torque : 200 %
Breakdown torque : 240 %
Rated speed : 2970 rpm

Moment of inertia (J) : 53.6 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 105 K

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 36 / 37	Revision
Checked by				
Date	12/04/2022			

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

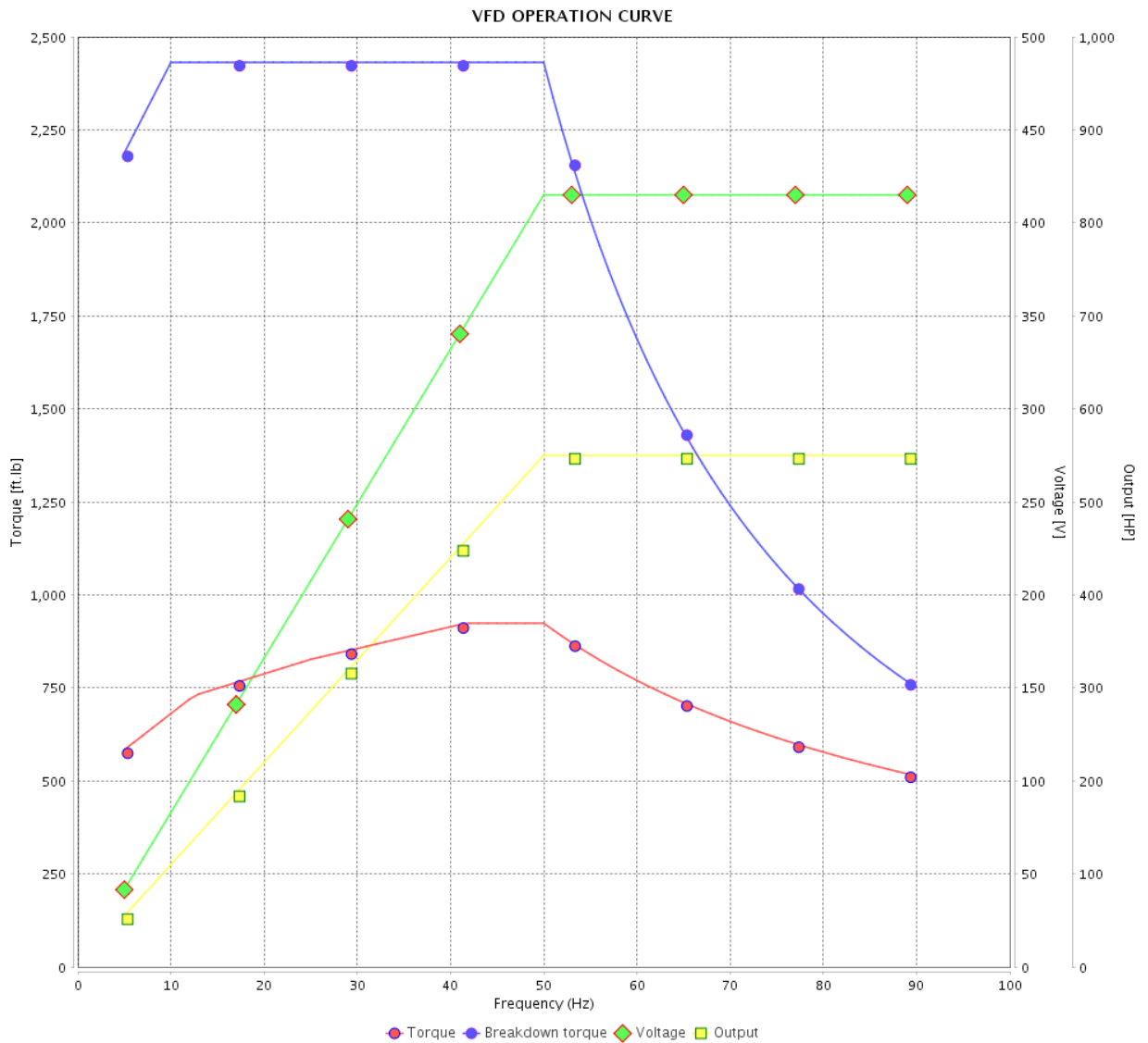


Customer :

Product line : W40 NEMA Premium Efficiency
Three-Phase

Product code : 13621557

Catalog # : 60036OT3G447/9TS-W40

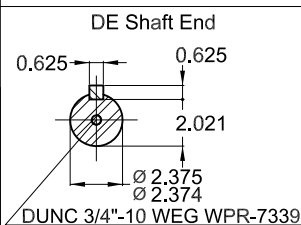
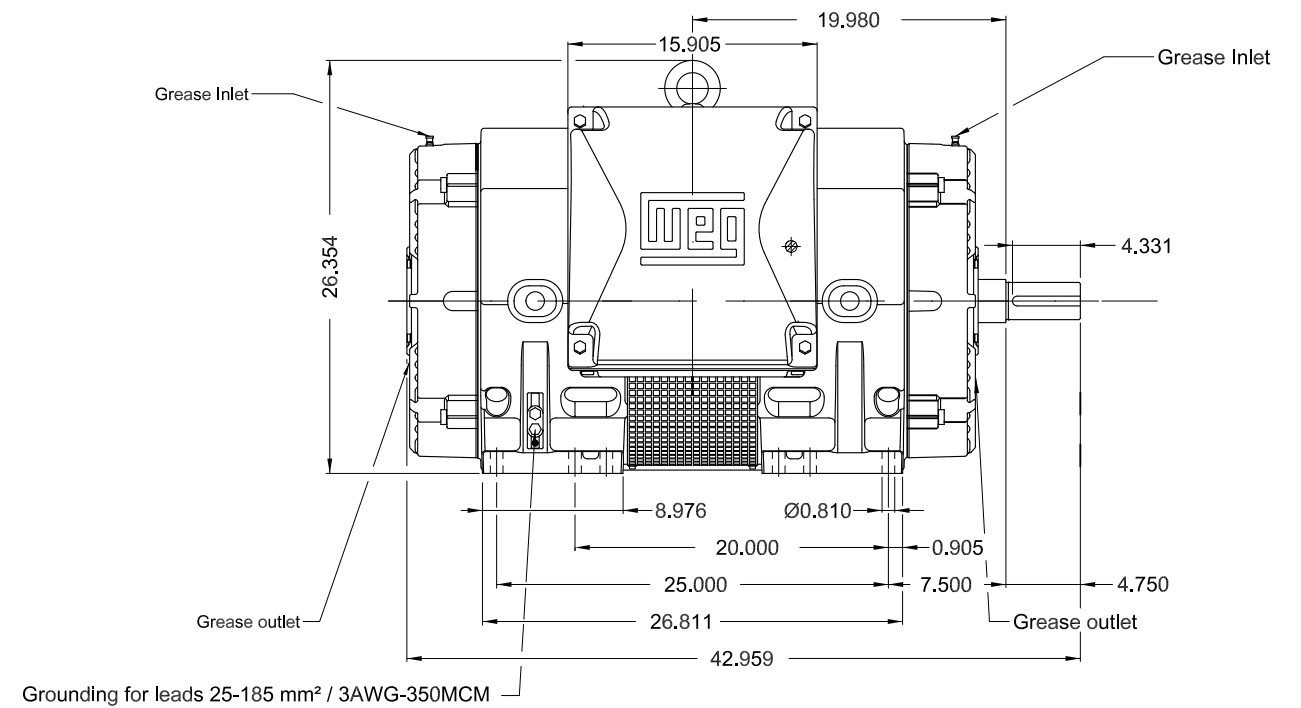
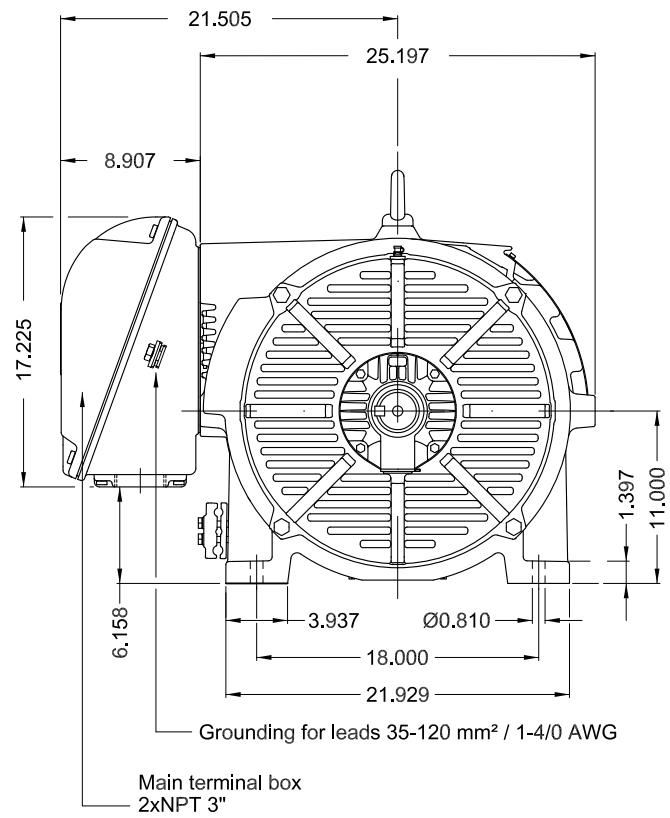


Performance : 415 V 50 Hz 2P IE1

Rated current : 645 A
 LRC : 8.0
 Rated torque : 972 ft.lb
 Locked rotor torque : 220 %
 Breakdown torque : 250 %
 Rated speed : 2970 rpm

Moment of inertia (J) : 53.6 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K

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



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

600 HP 02 Poles 60 Hz

A

1:12

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

PREVIEW
 WDD



SHEET 1 / 1

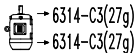
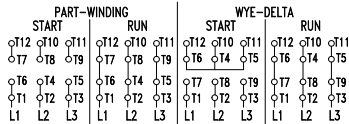
MODEL 600360T3G447/9TS-W40
MADE IN BRAZIL
13621557



MOD.T01#FOXON



PH 3	FR 447/9TS	HP(kW) 600(440)		Hz 60
V 460		A 645		IP23
NEMA NOM EFF		96.2	%	RPM 3565
ENCL ODP	DUTY CONT.		INS. CL. F ΔT 80 K	
PF 0.89		DES -	CODE H	AMB. 40°C
SF 1.15		SFA 742		ALT 1000 m.a.s.l.



MOBIL POLYREX EM
14418 h

2332 Lbs