

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :								
Product line	: W40 NEMA Premium Efficiency Three-Phase	Product code :	13621556					
		Catalog # :	55036OT3G447/9TS-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	: 2284 lb					
Protection degree	: IP23	Moment of inertia (J)	: 50.3 sq.ft.lb					
Output [HP]	550	450	450	450	500	500	500	
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]	580	582	552	538	655	619	604	
L. R. Amperes [A]	4176	3899	4085	4412	3930	4147	4470	
LRC [A]	7.2x(Code G)	6.7x(Code G)	7.4x(Code G)	8.2x(Code H)	6.0x(Code F)	6.7x(Code G)	7.4x(Code H)	
No load current [A]	122	120	135	145	120	135	145	
Rated speed [RPM]	3565	2965	2970	2970	2960	2965	2965	
Slip [%]	0.97	1.17	1.00	1.00	1.33	1.17	1.17	
Rated torque [ft.lb]	810	797	796	796	887	886	886	
Locked rotor torque [%]	200	200	220	240	180	200	220	
Breakdown torque [%]	250	240	270	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	105 K	80 K	105 K	105 K	105 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%	95.7	93.7	93.6	93.6	94.5	94.2	94.2
	50%	95.8	94.5	94.3	94.3	95.0	95.0	95.0
	75%	96.2	95.1	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%	0.63	0.62	0.58	0.56	0.66	0.62	0.60
	50%	0.84	0.82	0.80	0.79	0.85	0.83	0.82
	75%	0.89	0.89	0.88	0.87	0.89	0.88	0.88
	100%	0.90	0.90	0.90	0.89	0.90	0.90	0.89
Bearing type	: Drive end 6314 C3	: Non drive end 6314 C3	Foundation loads					
Sealing	: Without	: Without	Max. traction : 4760 lb					
	: Bearing Seal	: Bearing Seal	Max. compression : 7044 lb					
Lubrication interval	: 14418 h	: 14418 h						
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



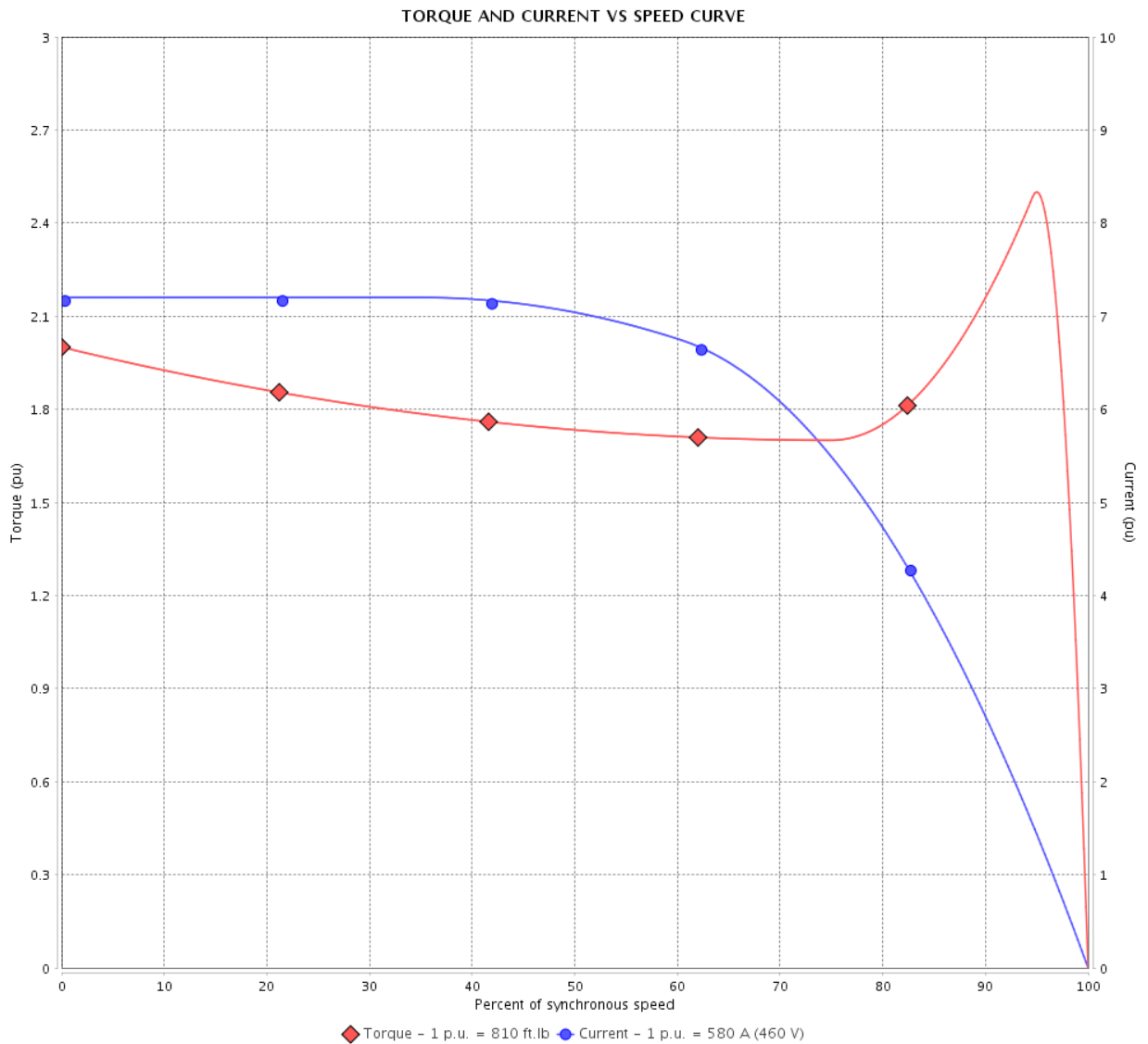
Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W40 NEMA Premium Efficiency
Three-Phase

Product code : 13621556

Catalog # : 55036OT3G447/9TS-W40



Performance : 460 V 60 Hz 2P

Rated current : 580 A	Moment of inertia (J) : 50.3 sq.ft.lb
LRC : 7.2	Duty cycle : Cont.(S1)
Rated torque : 810 ft.lb	Insulation class : F
Locked rotor torque : 200 %	Service factor : 1.15
Breakdown torque : 250 %	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



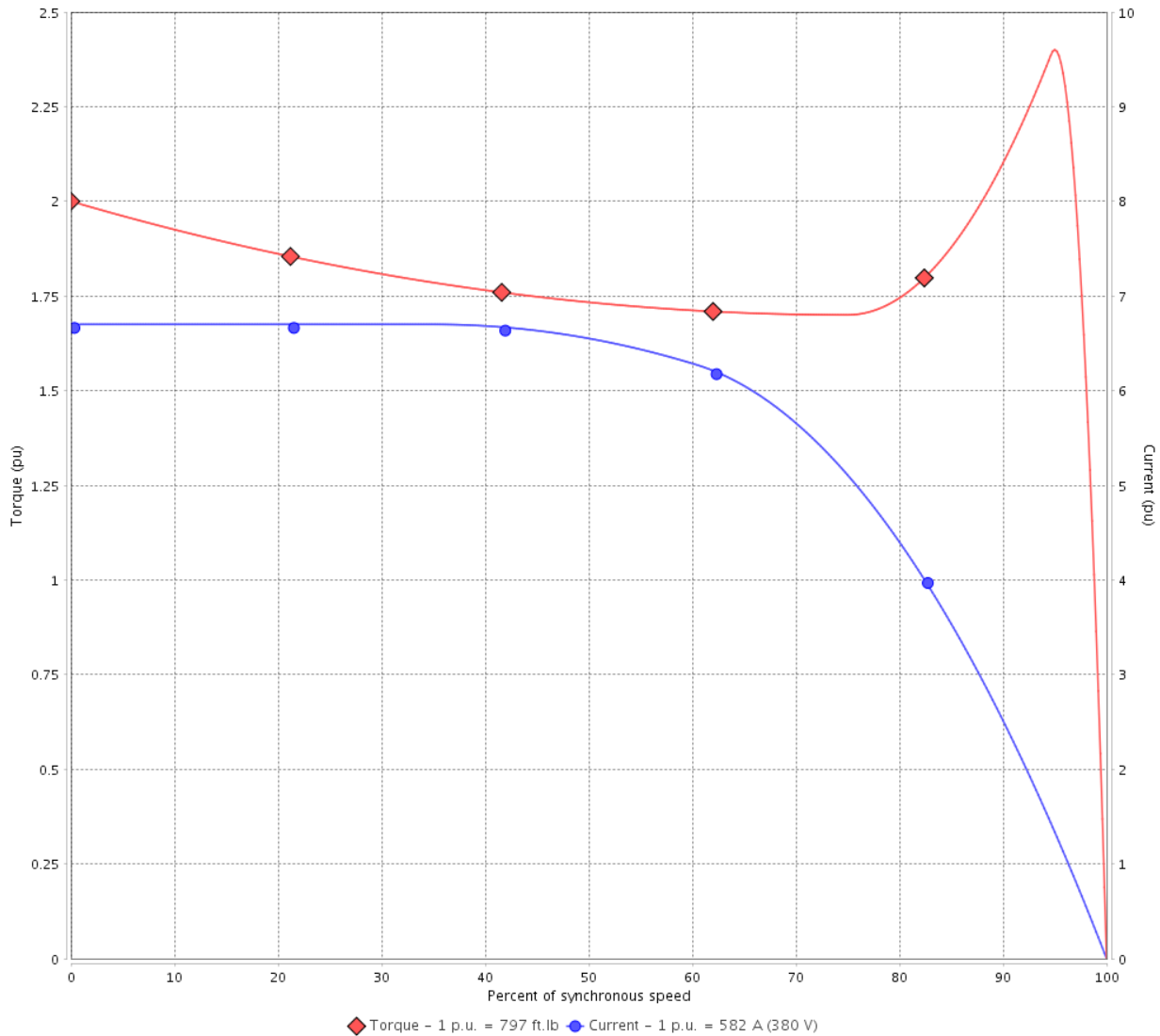
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TORQUE AND CURRENT VS SPEED CURVE



Performance : 380 V 50 Hz 2P IE3

Rated current	: 582 A	Moment of inertia (J)	: 50.3 sq.ft.lb
LRC	: 6.7	Duty cycle	: Cont.(S1)
Rated torque	: 797 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 : 21s (cold) 12s (hot)

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TORQUE AND CURRENT VS SPEED CURVE



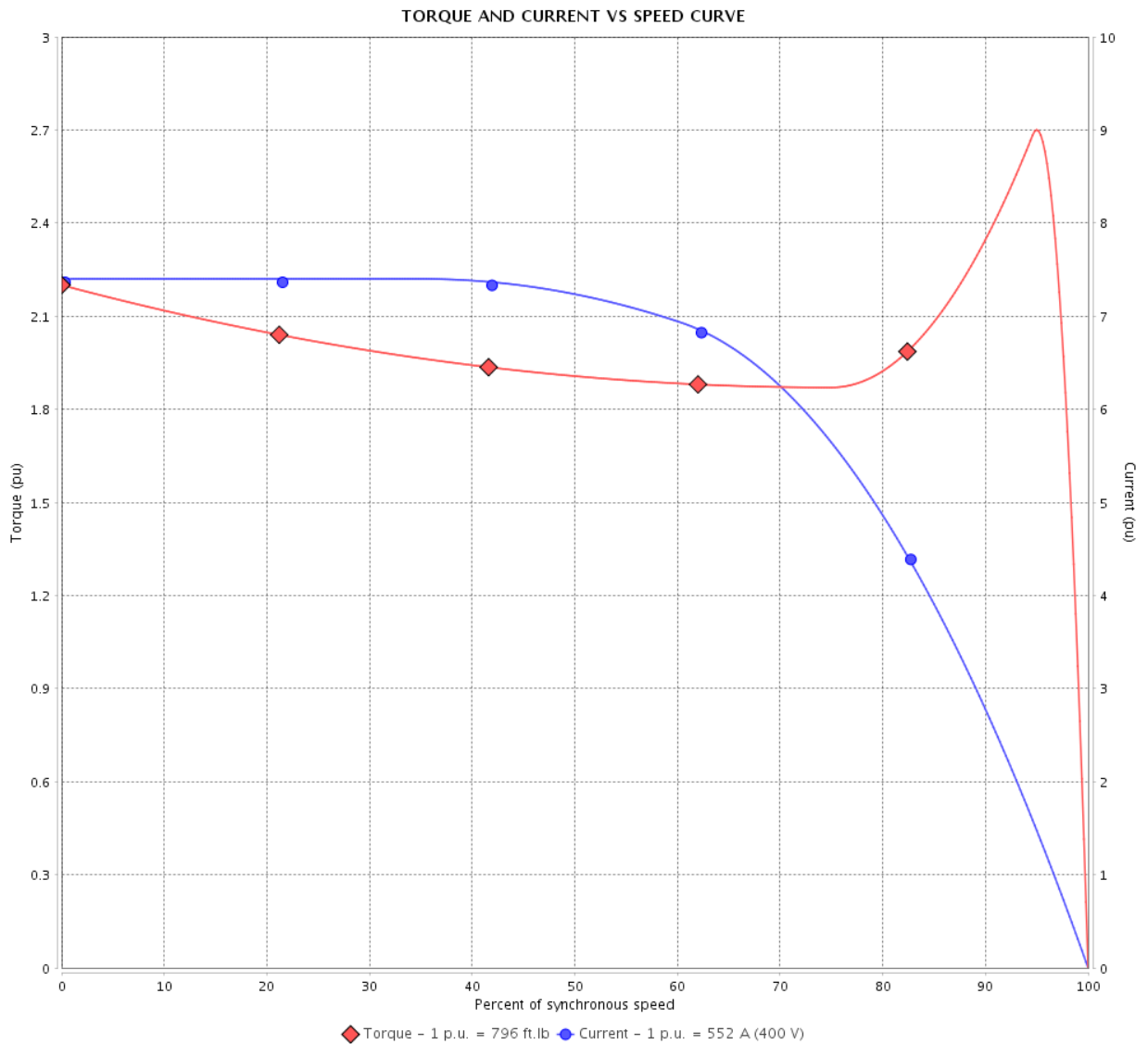
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Customer :

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Product code : 13621556

Catalog # : 55036OT3G447/9TS-W40



Performance : 400 V 50 Hz 2P IE3

Rated current	: 552 A	Moment of inertia (J)	: 50.3 sq.ft.lb
LRC	: 7.4	Duty cycle	: Cont.(S1)
Rated torque	: 796 ft.lb	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.15
Breakdown torque	: 270 %	Temperature rise	: 105 K
Rated speed	: 2970 rpm		

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

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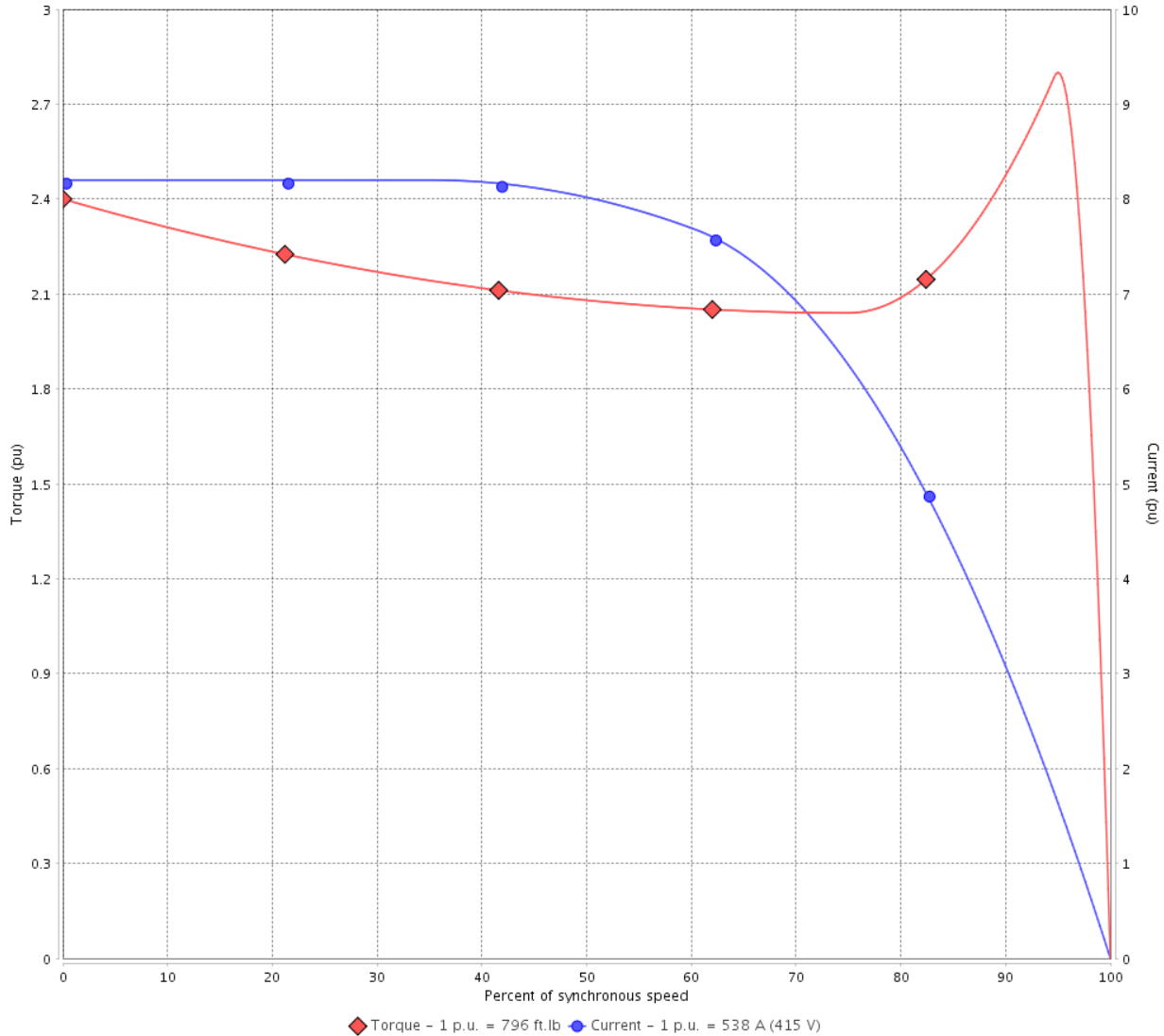
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TORQUE AND CURRENT VS SPEED CURVE



Performance : 415 V 50 Hz 2P IE3

Rated current	: 538 A	Moment of inertia (J)	: 50.3 sq.ft.lb
LRC	: 8.2	Duty cycle	: Cont.(S1)
Rated torque	: 796 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 : 21s (cold) 12s (hot)

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TORQUE AND CURRENT VS SPEED CURVE



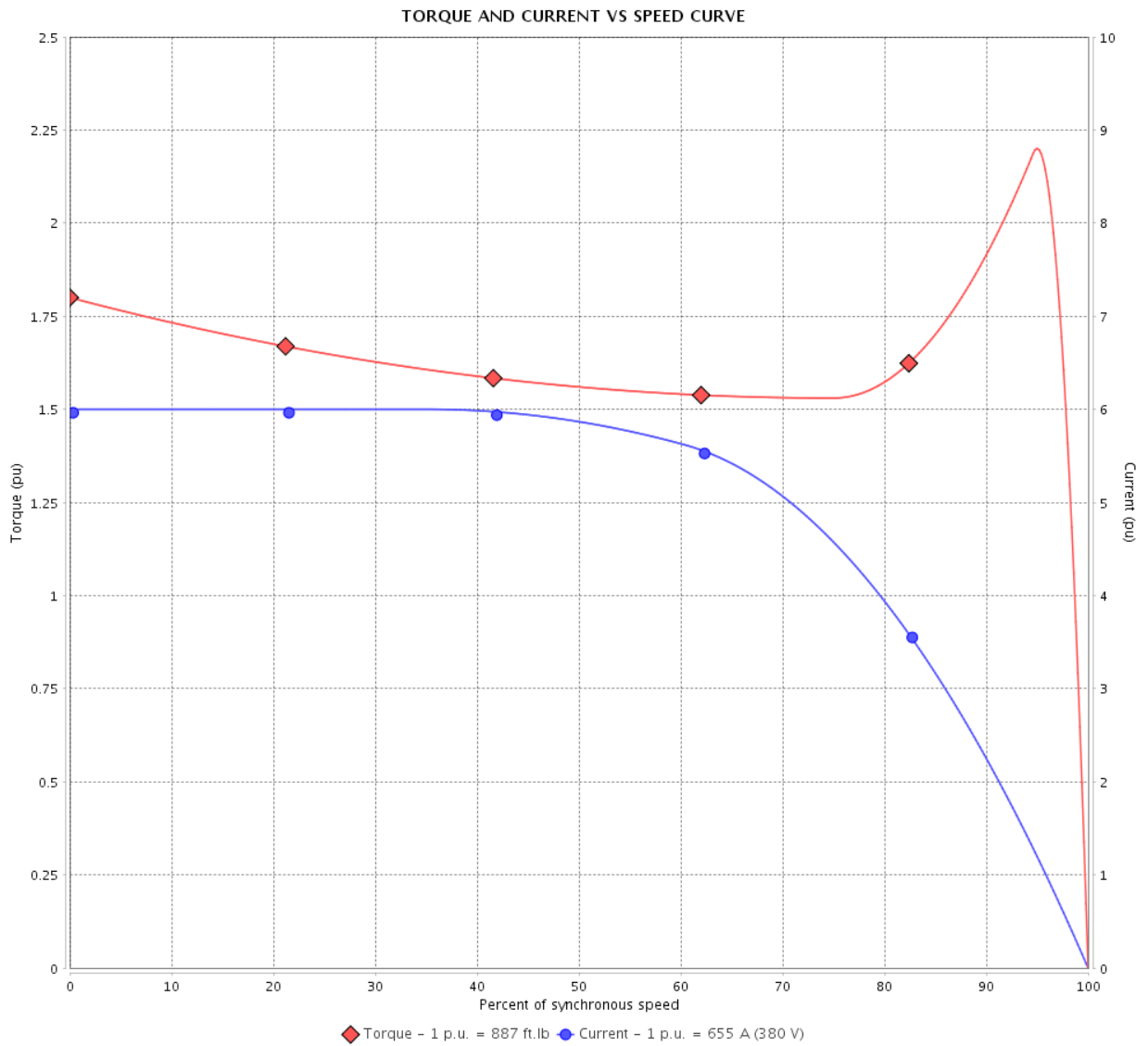
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Product code : 13621556

Catalog # : 55036OT3G447/9TS-W40



Performance : 380 V 50 Hz 2P IE2

Rated current : 655 A
LRC : 6.0
Rated torque : 887 ft.lb
Locked rotor torque : 180 %
Breakdown torque : 220 %
Rated speed : 2960 rpm

Moment of inertia (J) : 50.3 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 105 K

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

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TORQUE AND CURRENT VS SPEED CURVE

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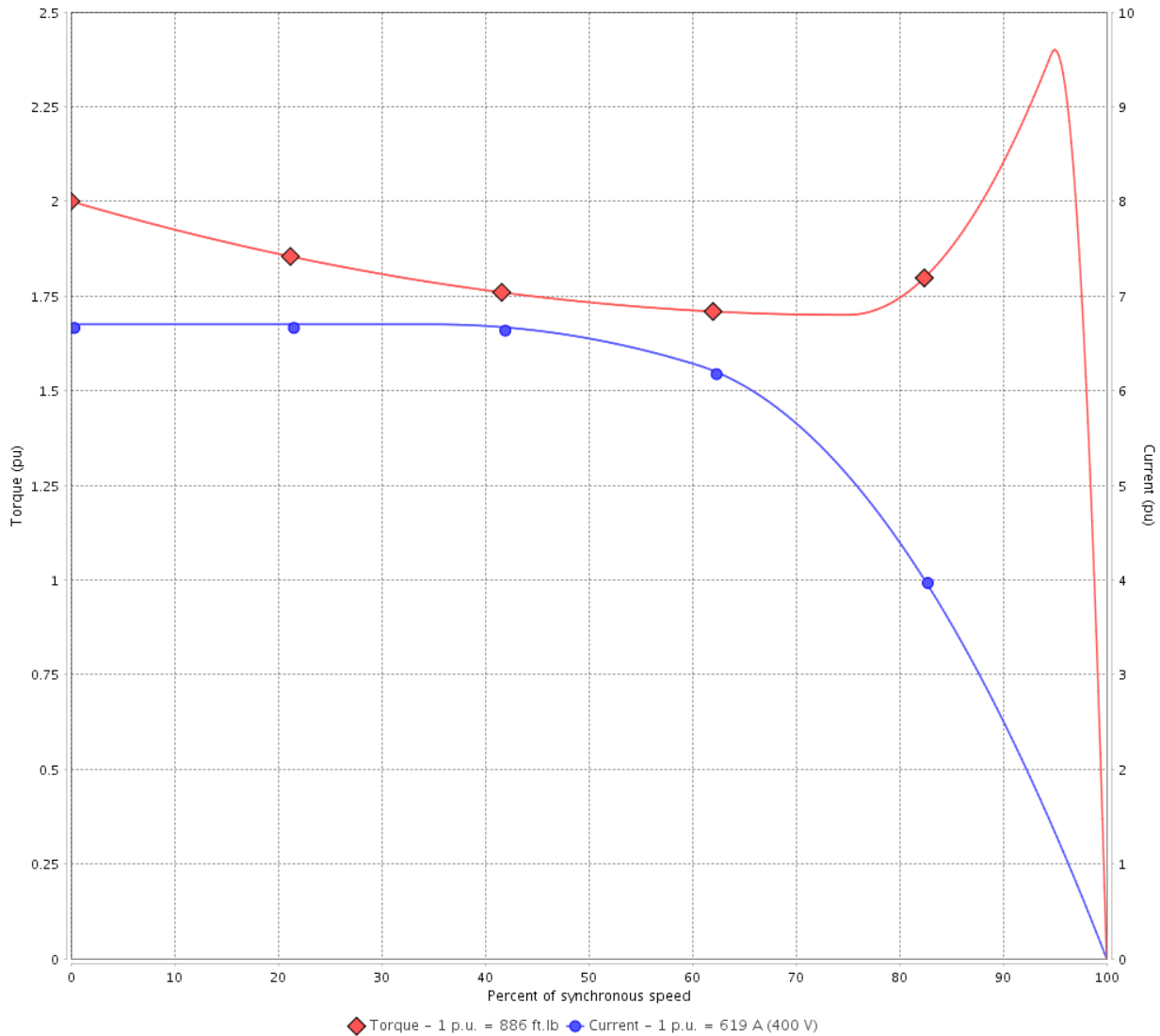
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TORQUE AND CURRENT VS SPEED CURVE



Performance : 400 V 50 Hz 2P IE3

Rated current	: 619 A	Moment of inertia (J)	: 50.3 sq.ft.lb
LRC	: 6.7	Duty cycle	: Cont.(S1)
Rated torque	: 886 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.00
Breakdown torque	: 240 %	Temperature rise	: 105 K
Rated speed	: 2965 rpm		

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

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TORQUE AND CURRENT VS SPEED CURVE



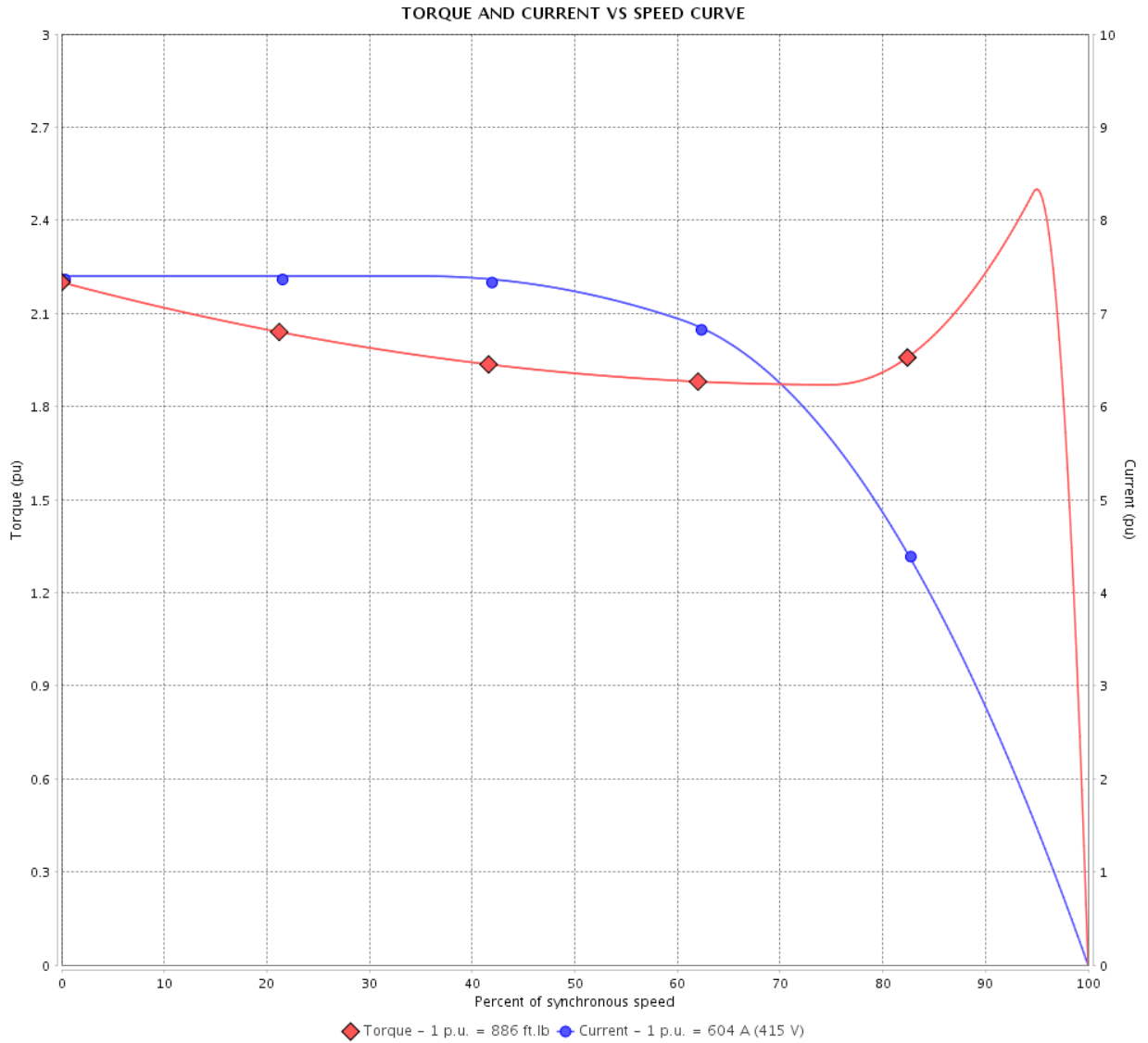
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Three-Phase

Product code : 13621556

Catalog # : 55036OT3G447/9TS-W40



Performance : 415 V 50 Hz 2P IE3

Rated current	: 604 A	Moment of inertia (J)	: 50.3 sq.ft.lb
LRC	: 7.4	Duty cycle	: Cont.(S1)
Rated torque	: 886 ft.lb	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.00
Breakdown torque	: 250 %	Temperature rise	: 105 K
Rated speed	: 2965 rpm		

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

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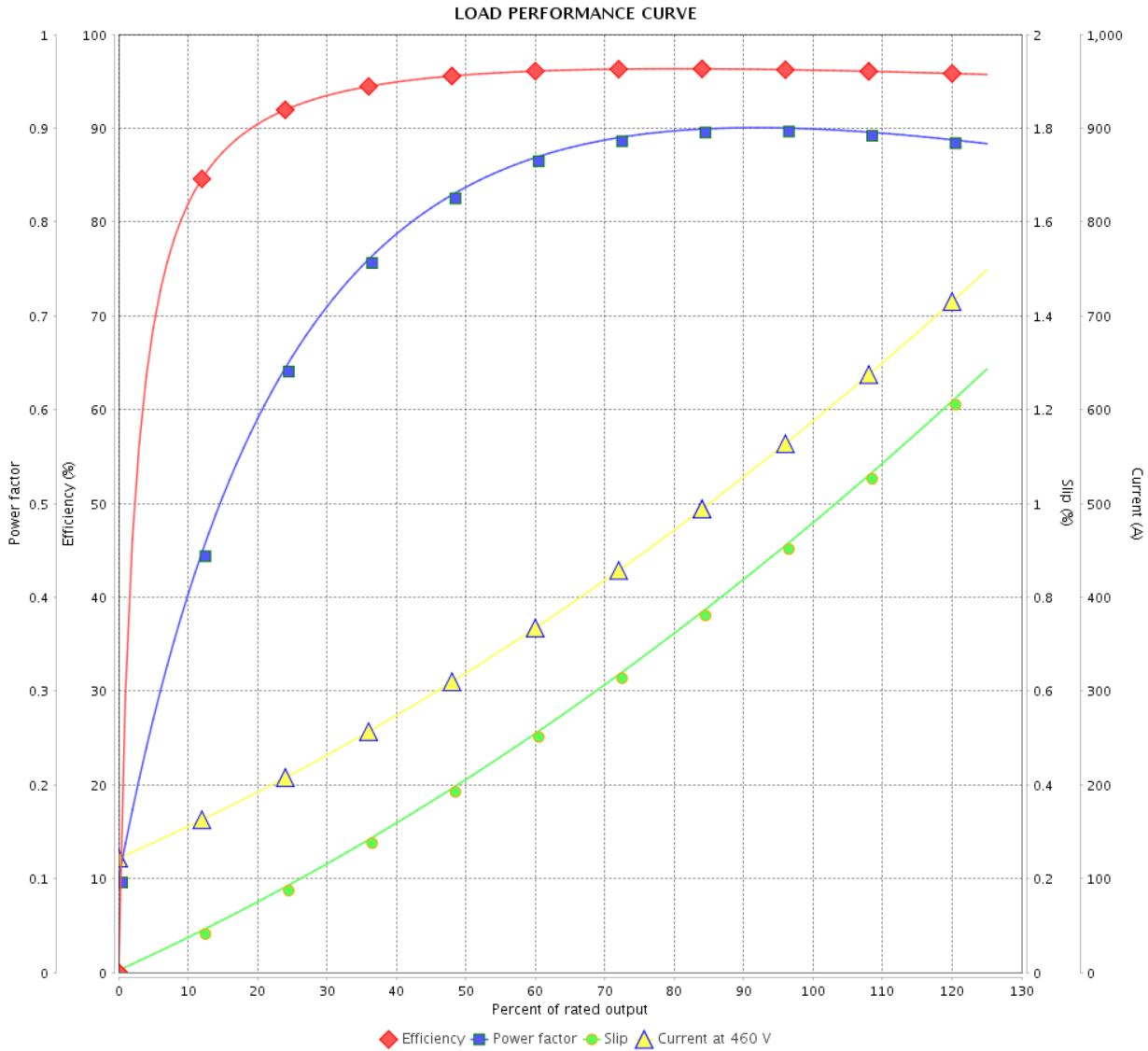


Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 13621556

Catalog # : 55036OT3G447/9TS-W40



Performance : 460 V 60 Hz 2P

Rated current : 580 A
 LRC : 7.2
 Rated torque : 810 ft.lb
 Locked rotor torque : 200 %
 Breakdown torque : 250 %
 Rated speed : 3565 rpm

Moment of inertia (J) : 50.3 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K

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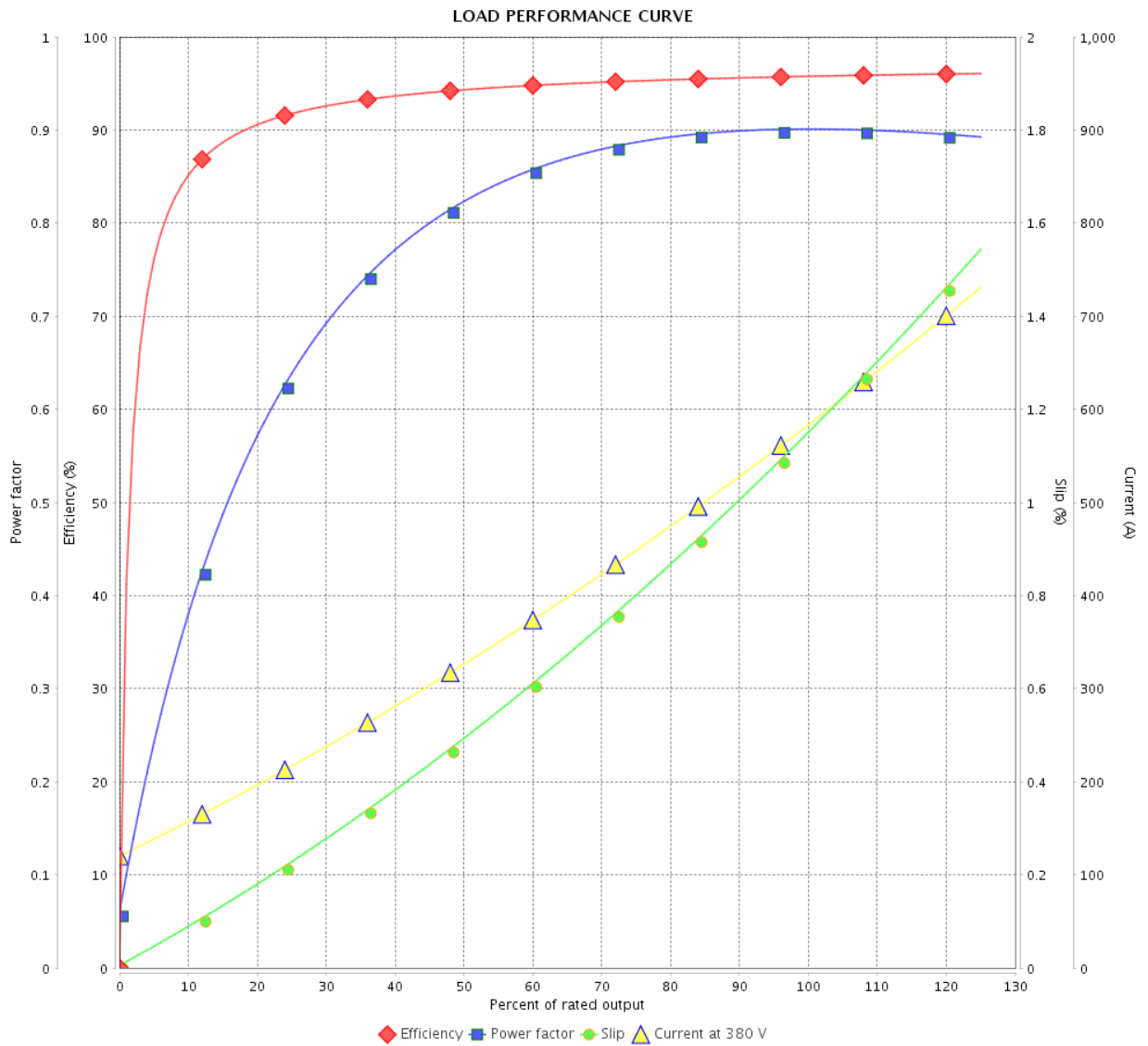


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Product code : 13621556

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Performance : 380 V 50 Hz 2P IE3

Rated current : 582 A
 LRC : 6.7
 Rated torque : 797 ft.lb
 Locked rotor torque : 200 %
 Breakdown torque : 240 %
 Rated speed : 2965 rpm

Moment of inertia (J) : 50.3 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 105 K

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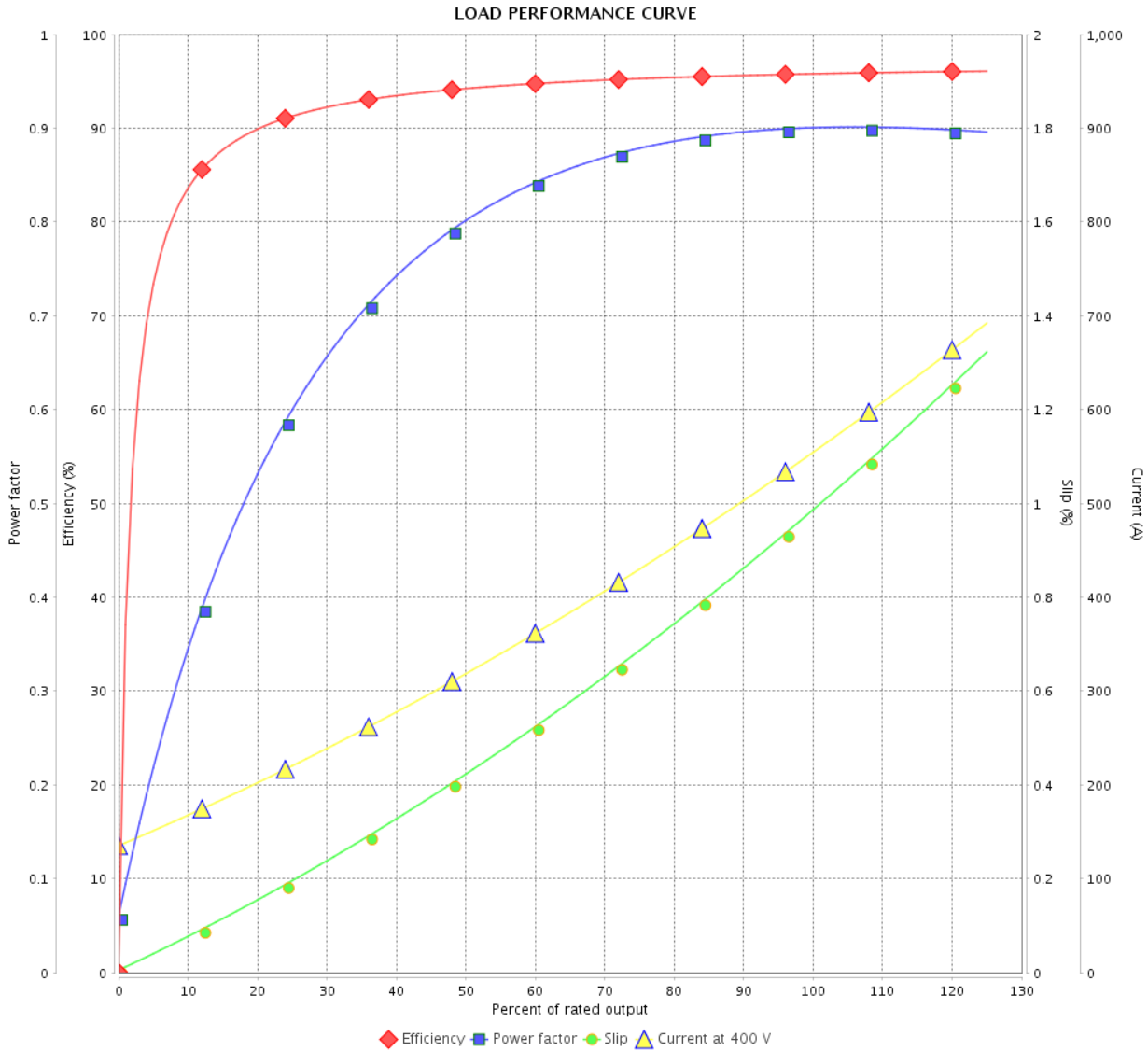


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Three-Phase

Product code : 13621556

Catalog # : 55036OT3G447/9TS-W40



Performance : 400 V 50 Hz 2P IE3

Rated current : 552 A
 LRC : 7.4
 Rated torque : 796 ft.lb
 Locked rotor torque : 220 %
 Breakdown torque : 270 %
 Rated speed : 2970 rpm

Moment of inertia (J) : 50.3 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 105 K

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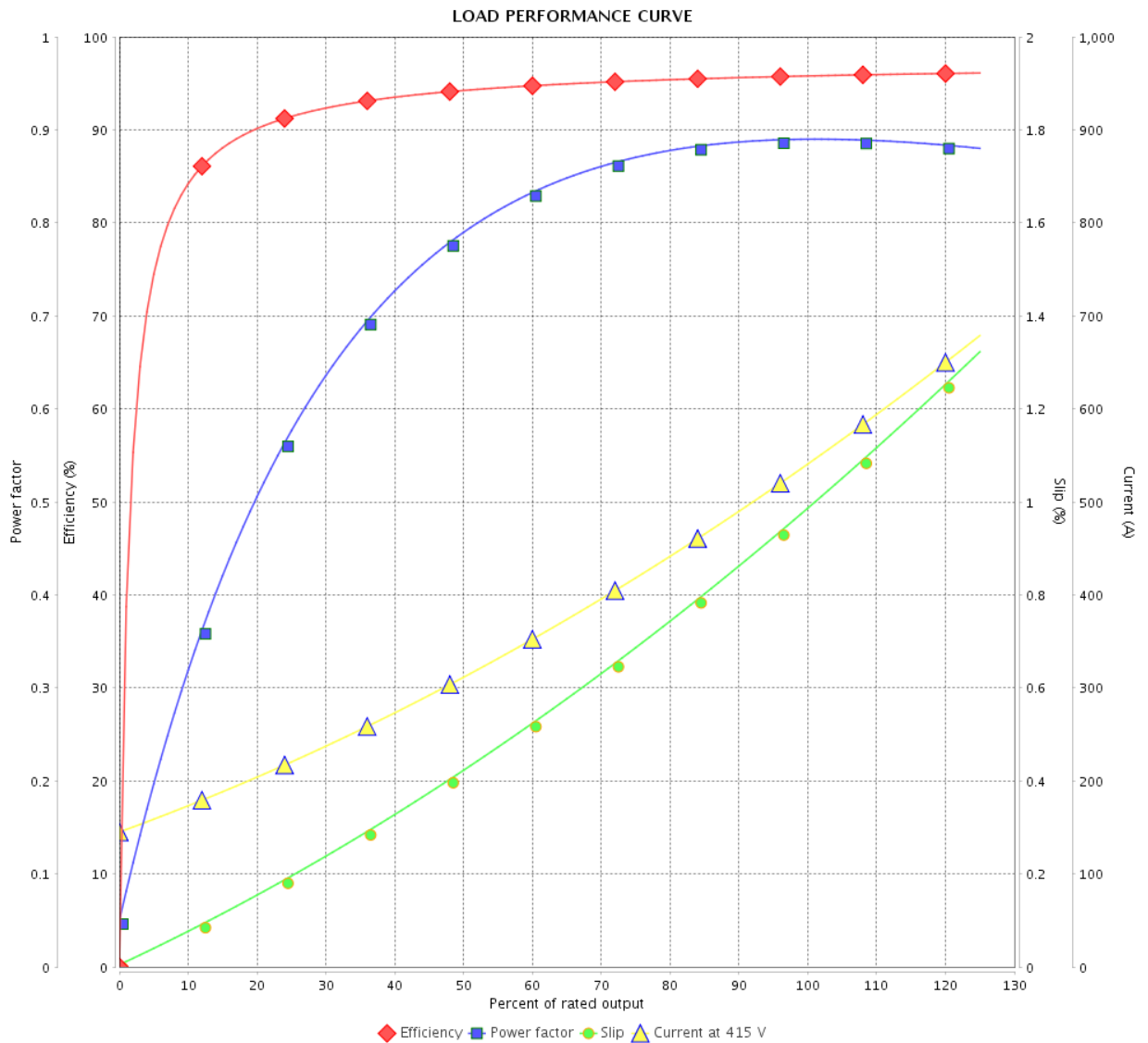


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Product code : 13621556

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Performance : 415 V 50 Hz 2P IE3

Rated current : 538 A
 LRC : 8.2
 Rated torque : 796 ft.lb
 Locked rotor torque : 240 %
 Breakdown torque : 280 %
 Rated speed : 2970 rpm

Moment of inertia (J) : 50.3 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K

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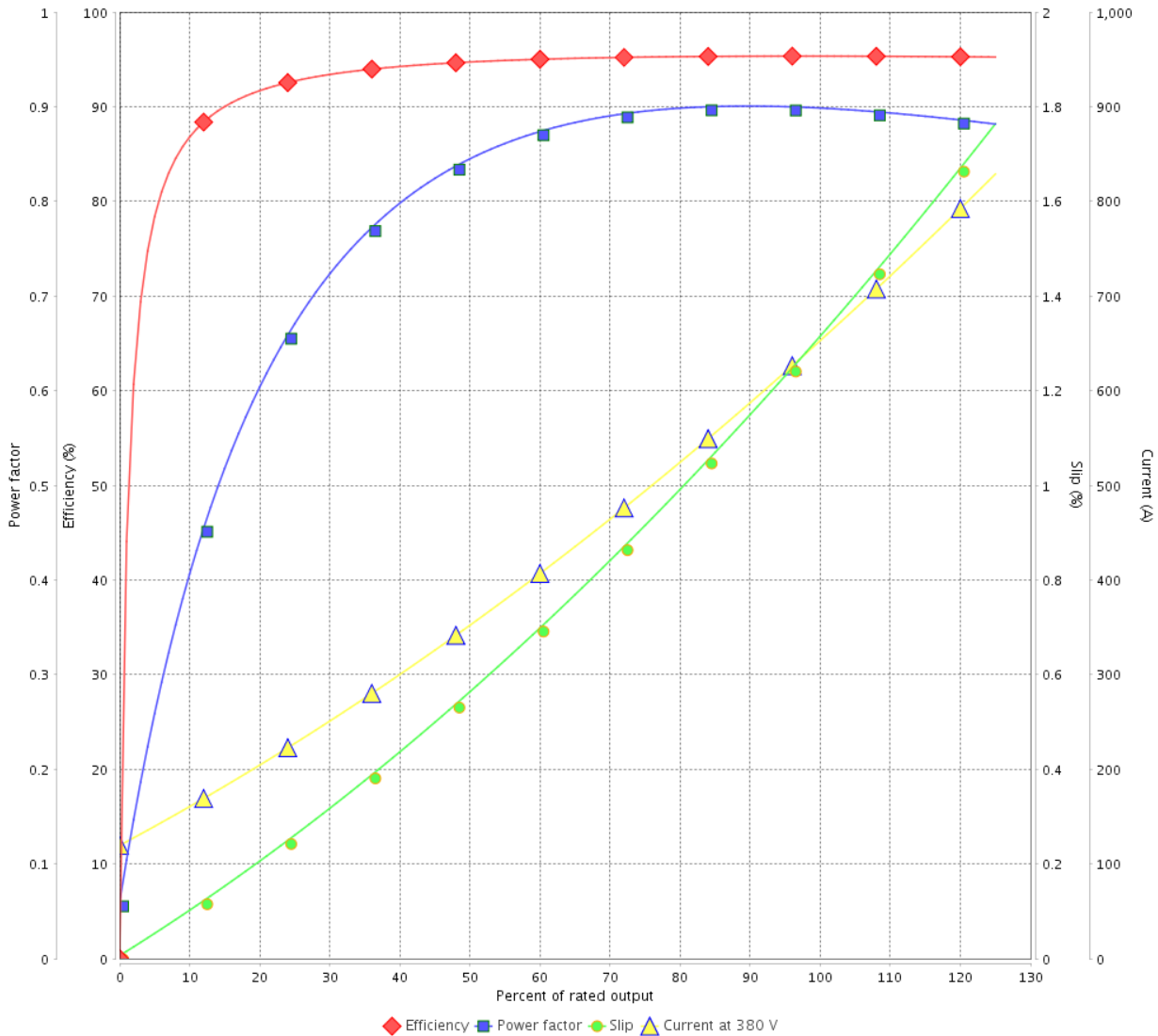
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Performance : 380 V 50 Hz 2P IE2

Rated current : 655 A
 LRC : 6.0
 Rated torque : 887 ft.lb
 Locked rotor torque : 180 %
 Breakdown torque : 220 %
 Rated speed : 2960 rpm

Moment of inertia (J) : 50.3 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K

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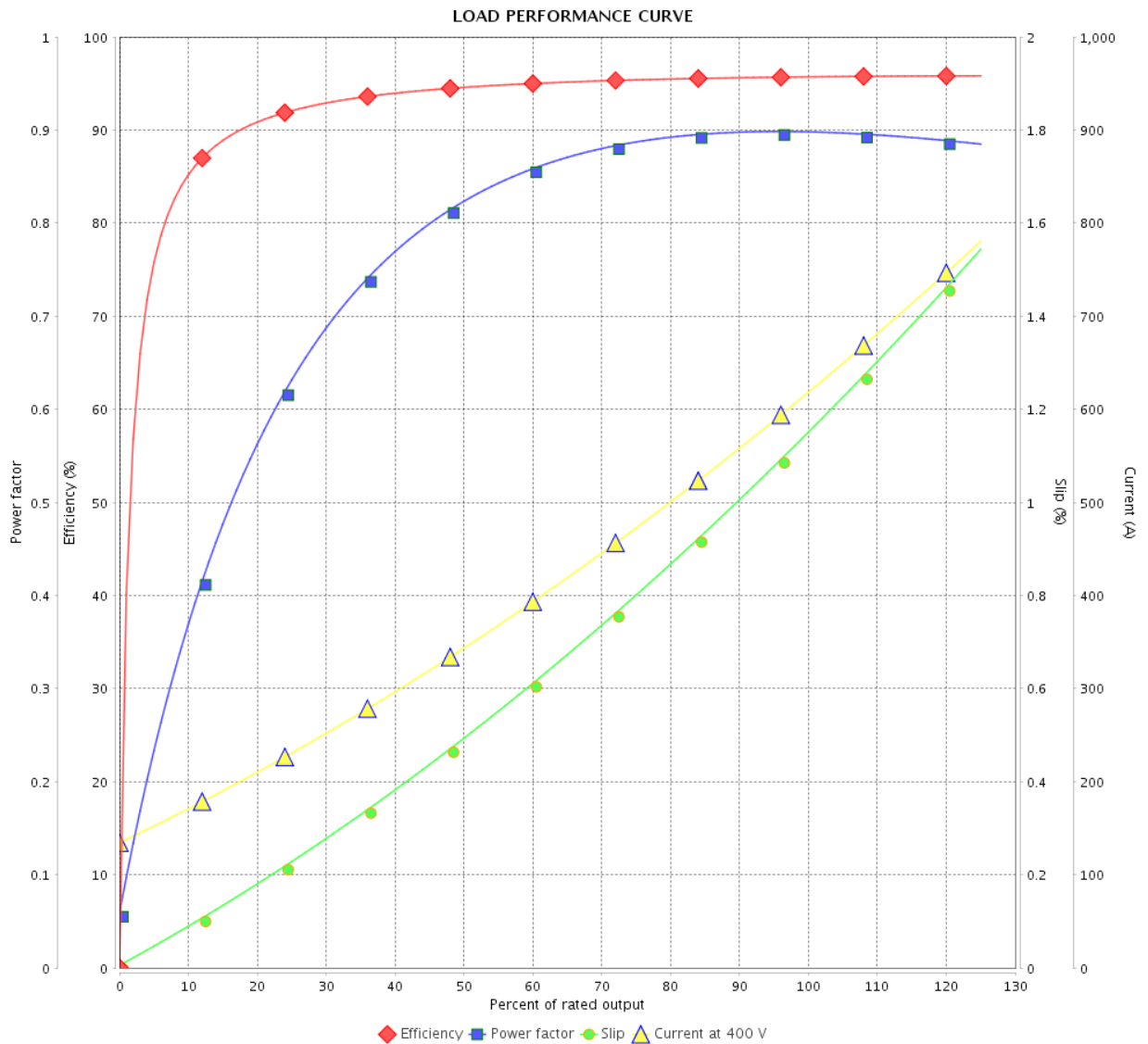


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Performance : 400 V 50 Hz 2P IE3

Rated current : 619 A
 LRC : 6.7
 Rated torque : 886 ft.lb
 Locked rotor torque : 200 %
 Breakdown torque : 240 %
 Rated speed : 2965 rpm

Moment of inertia (J) : 50.3 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K

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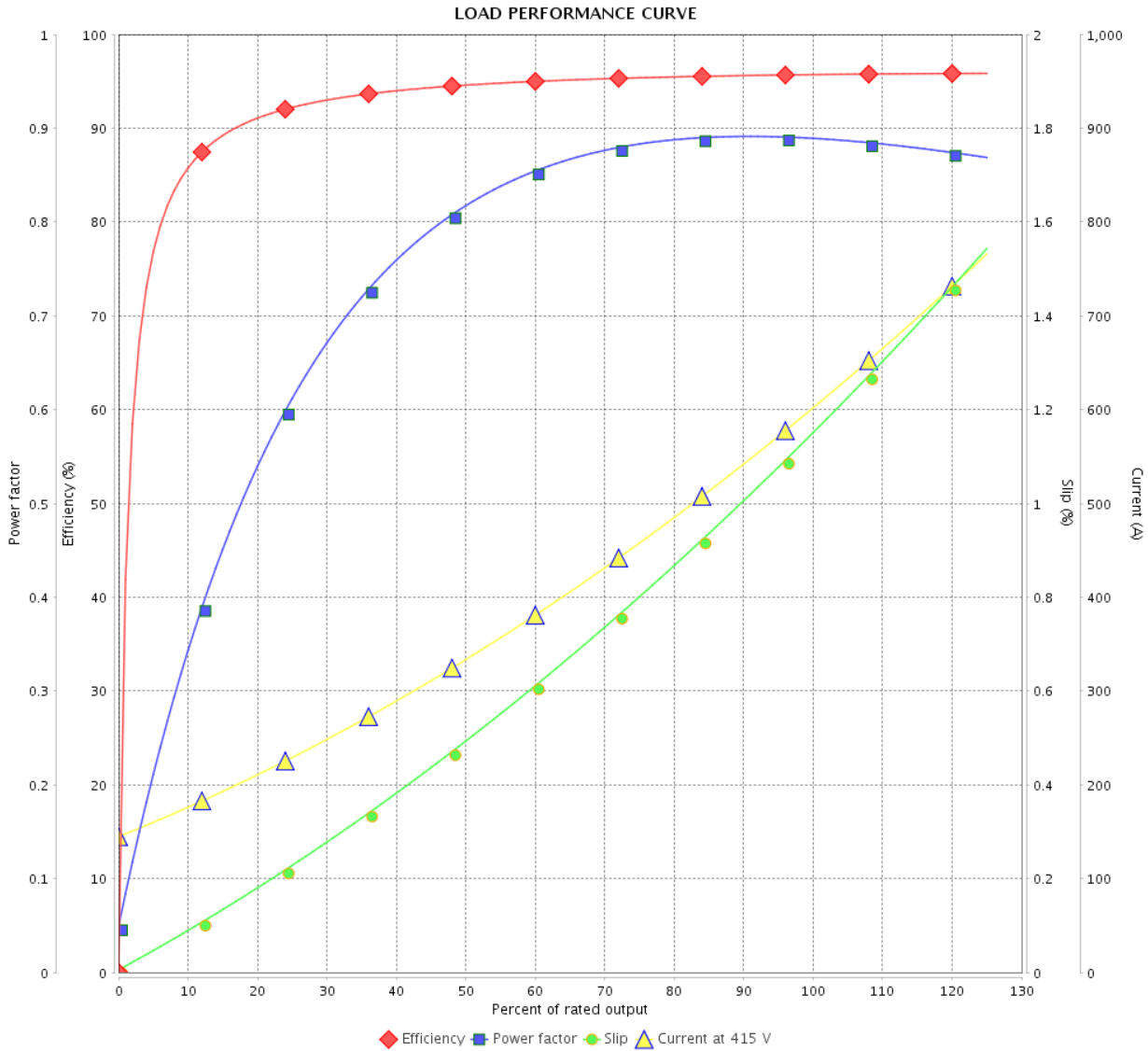


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Three-Phase

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Catalog # : 55036OT3G447/9TS-W40



Performance : 415 V 50 Hz 2P IE3

Rated current : 604 A
 LRC : 7.4
 Rated torque : 886 ft.lb
 Locked rotor torque : 220 %
 Breakdown torque : 250 %
 Rated speed : 2965 rpm

Moment of inertia (J) : 50.3 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K

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Performance : 460 V 60 Hz 2P

Rated current : 580 A	Moment of inertia (J) : 50.3 sq.ft.lb
LRC : 7.2	Duty cycle : Cont.(S1)
Rated torque : 810 ft.lb	Insulation class : F
Locked rotor torque : 200 %	Service factor : 1.15
Breakdown torque : 250 %	Temperature rise : 80 K
Rated speed : 3565 rpm	

Heating constant

Cooling constant

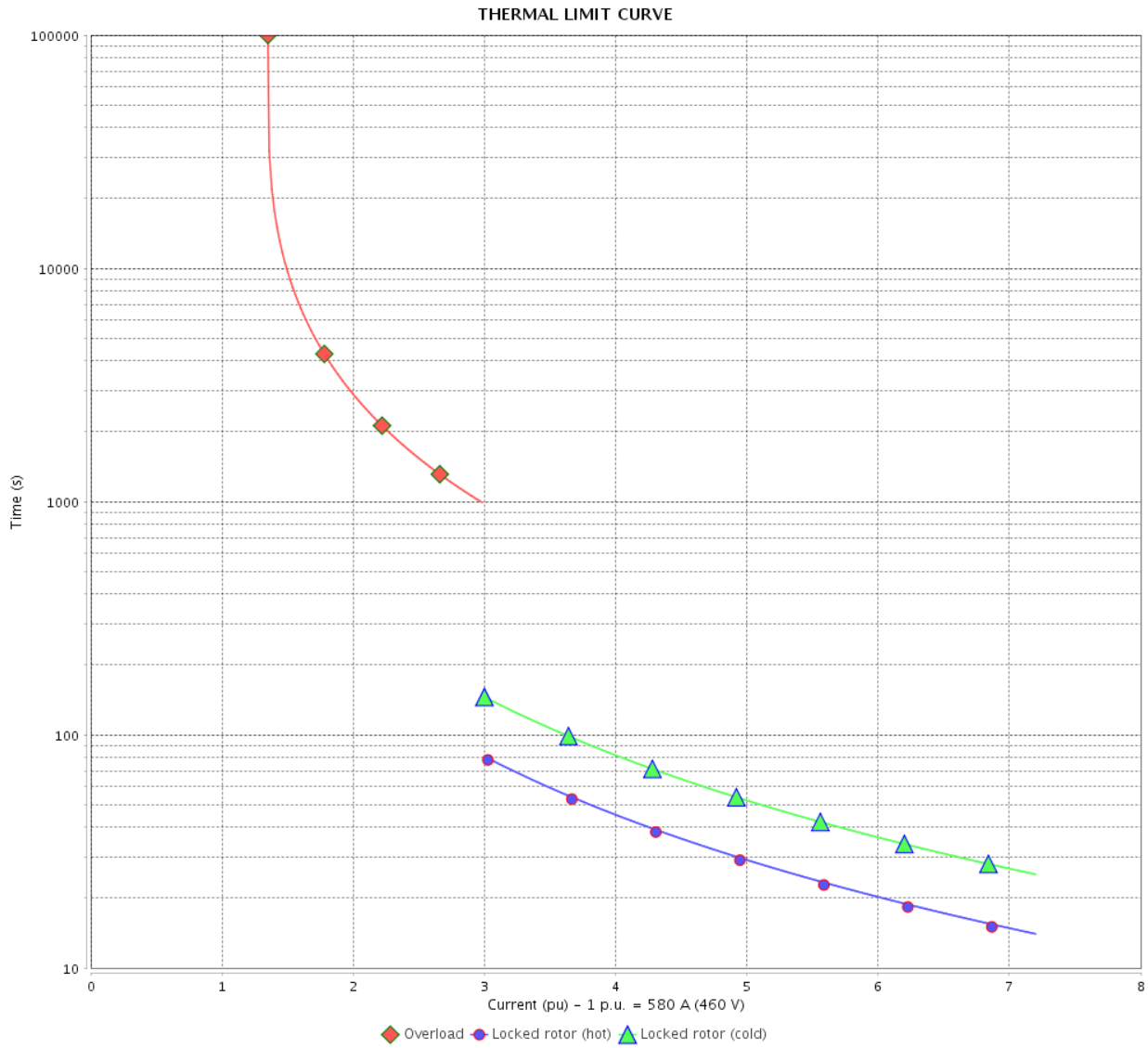
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Performance : 380 V 50 Hz 2P IE3

Rated current : 582 A	Moment of inertia (J) : 50.3 sq.ft.lb
LRC : 6.7	Duty cycle : Cont.(S1)
Rated torque : 797 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

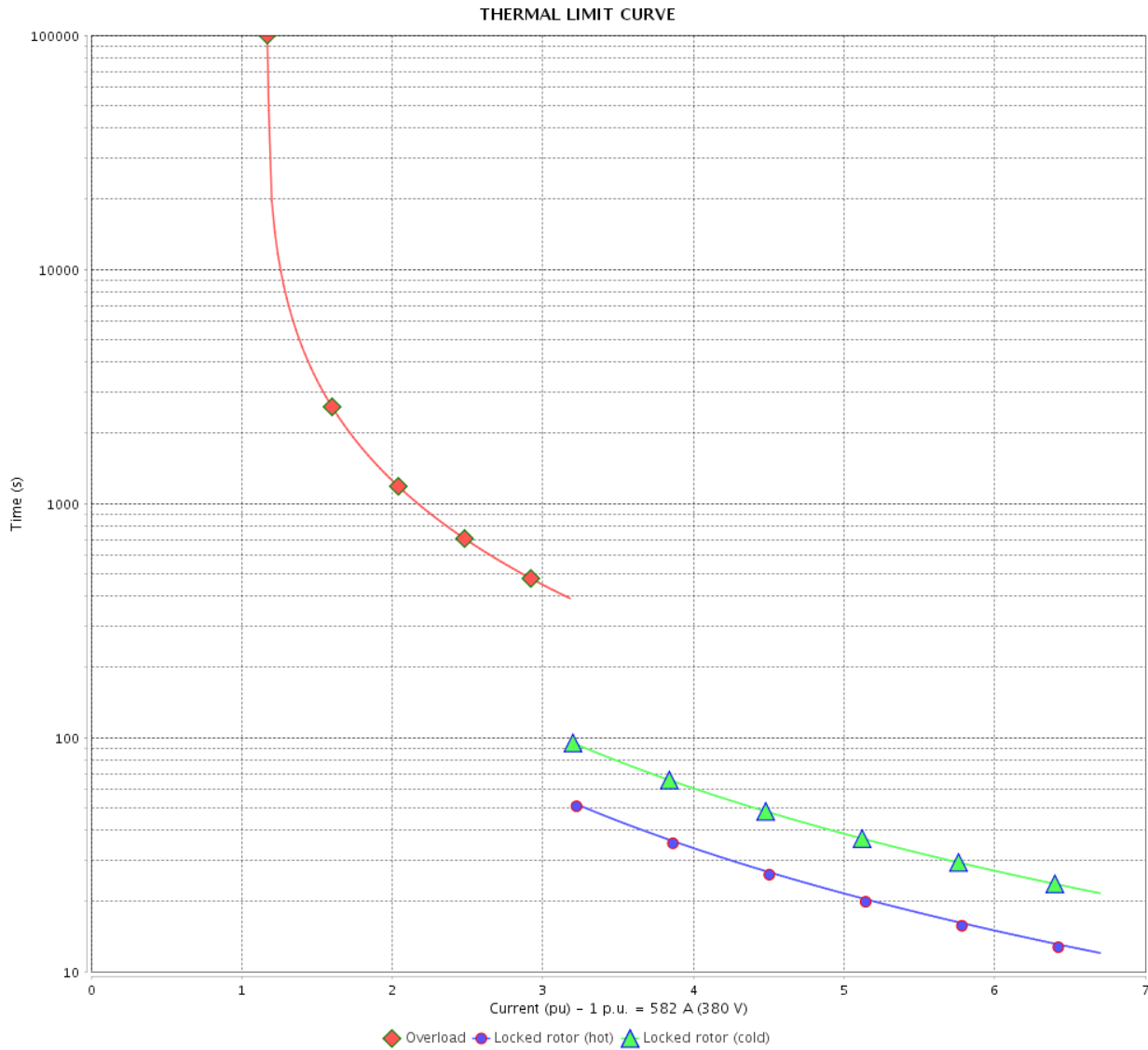
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Performance : 400 V 50 Hz 2P IE3

Rated current : 552 A	Moment of inertia (J) : 50.3 sq.ft.lb
LRC : 7.4	Duty cycle : Cont.(S1)
Rated torque : 796 ft.lb	Insulation class : F
Locked rotor torque : 220 %	Service factor : 1.15
Breakdown torque : 270 %	Temperature rise : 105 K
Rated speed : 2970 rpm	

Heating constant

Cooling constant

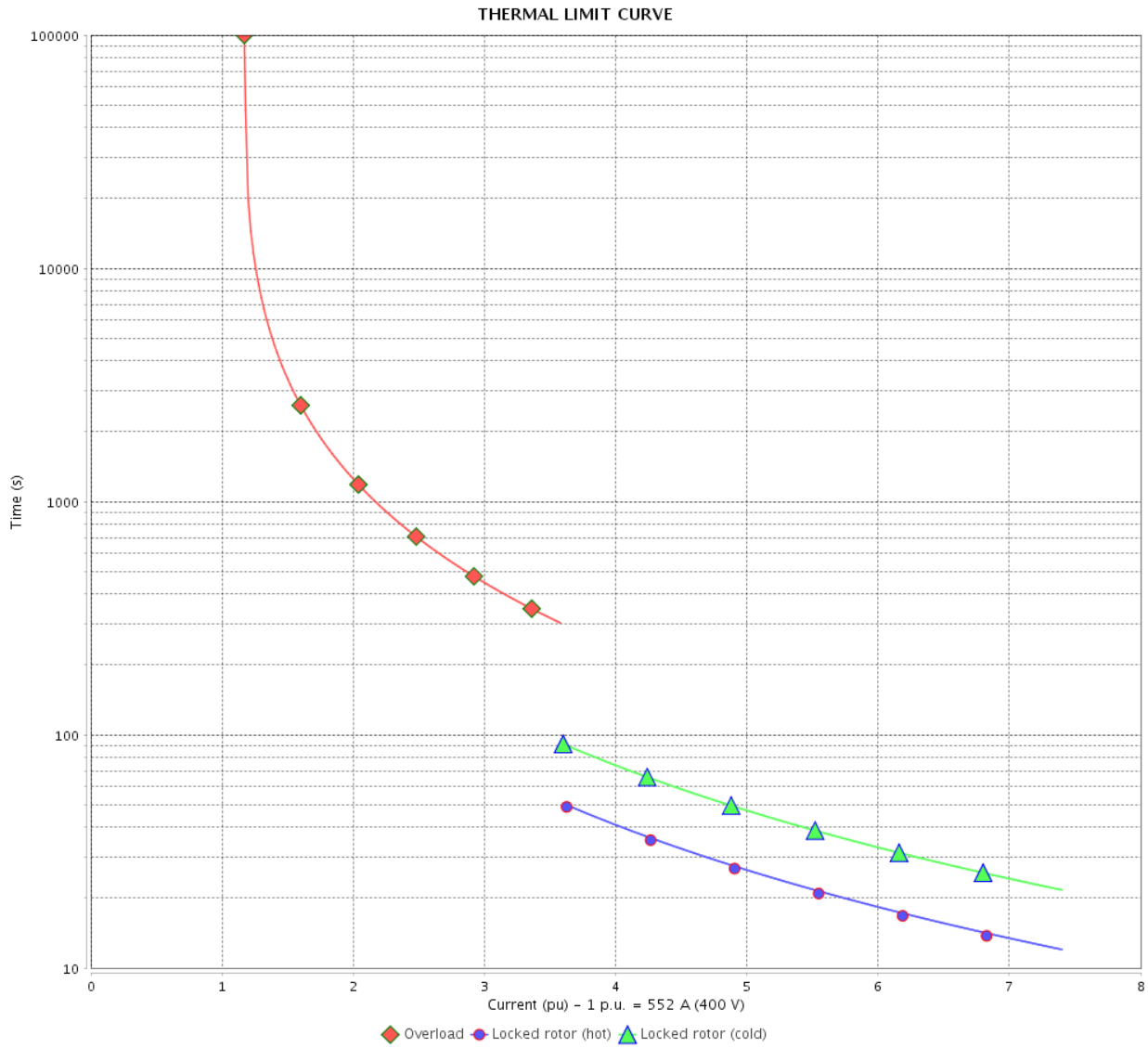
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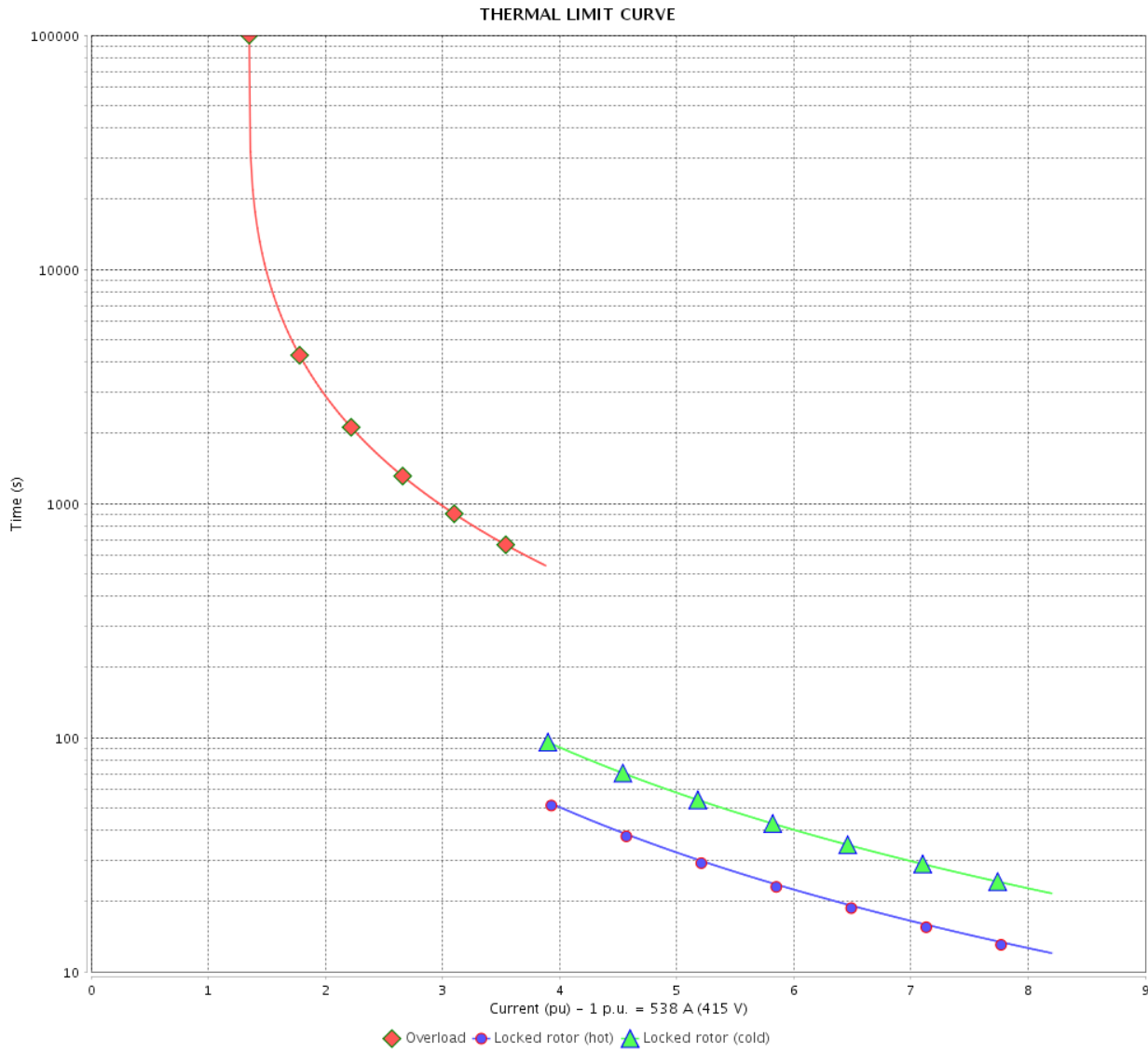
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LRC : 6.0	Duty cycle : Cont.(S1)
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Locked rotor torque : 180 %	Service factor : 1.00
Breakdown torque : 220 %	Temperature rise : 105 K
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Heating constant
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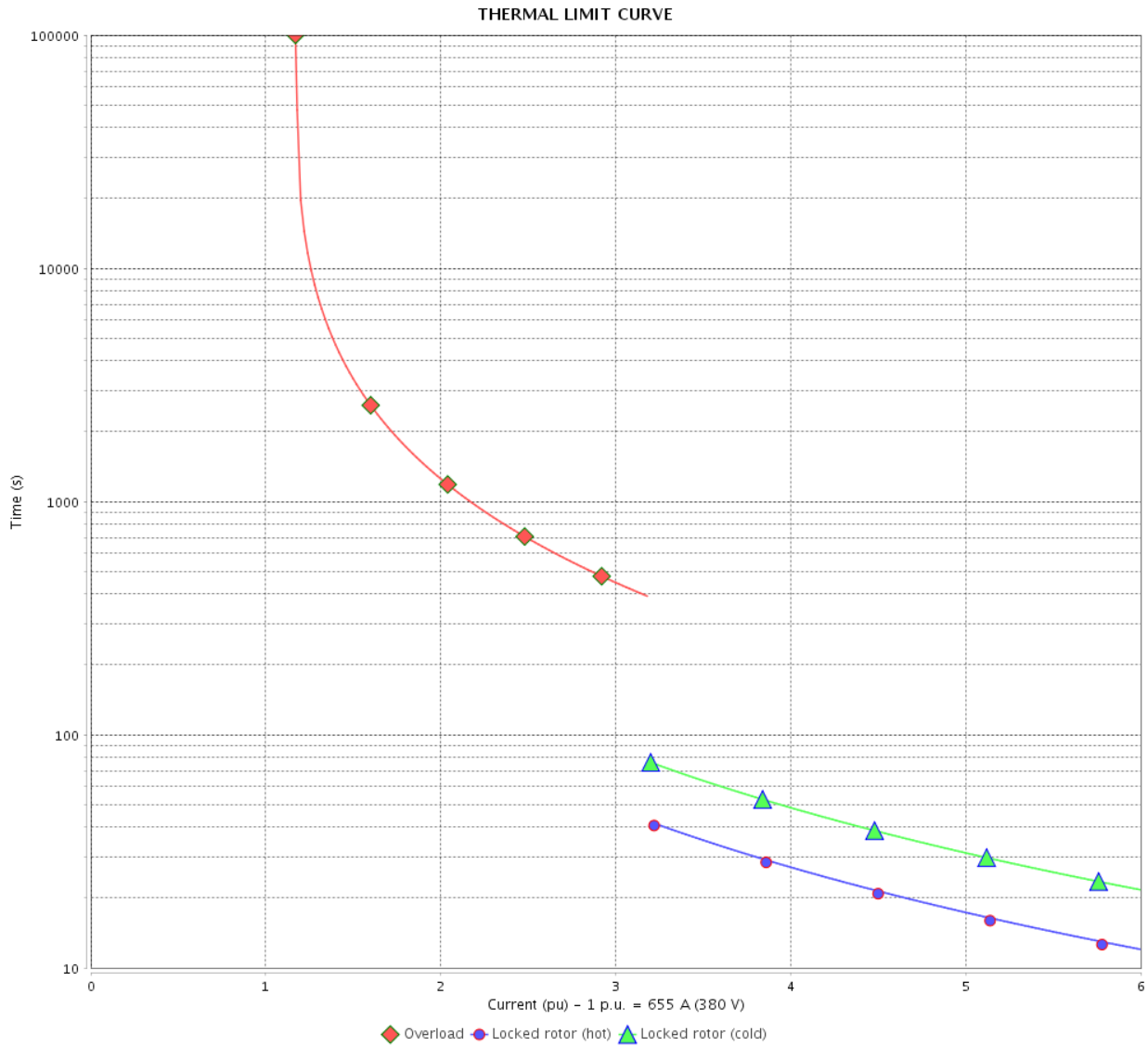
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Cooling constant

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Date	12/04/2022		27 / 37	

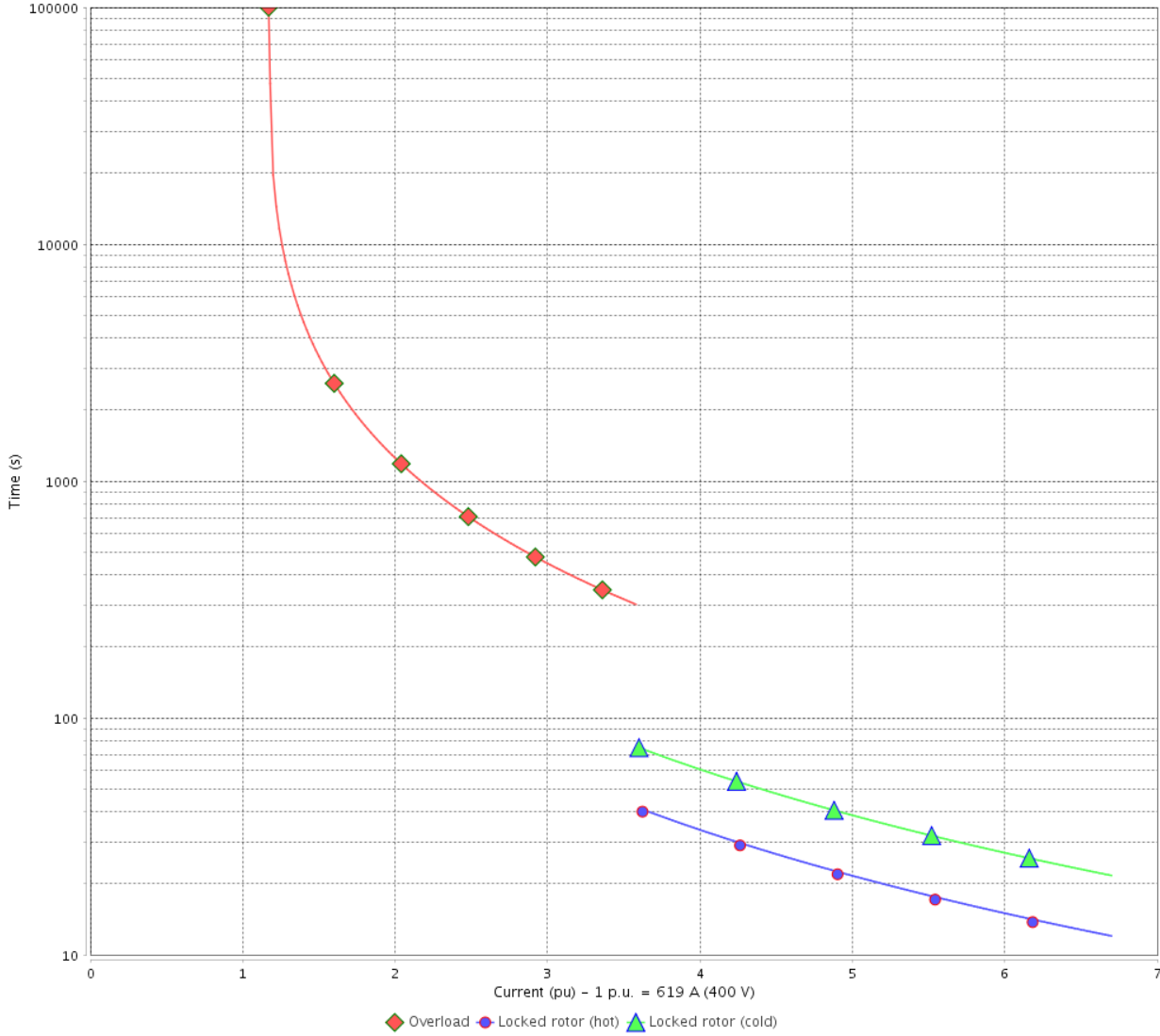
THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____

THERMAL LIMIT CURVE



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Performed by		Page		Revision
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Date	12/04/2022			

THERMAL LIMIT CURVE



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase Product code : 13621556
 Catalog # : 55036OT3G447/9TS-W40

Performance : 415 V 50 Hz 2P IE3

Rated current : 604 A	Moment of inertia (J) : 50.3 sq.ft.lb
LRC : 7.4	Duty cycle : Cont.(S1)
Rated torque : 886 ft.lb	Insulation class : F
Locked rotor torque : 220 %	Service factor : 1.00
Breakdown torque : 250 %	Temperature rise : 105 K
Rated speed : 2965 rpm	

Heating constant

Cooling constant

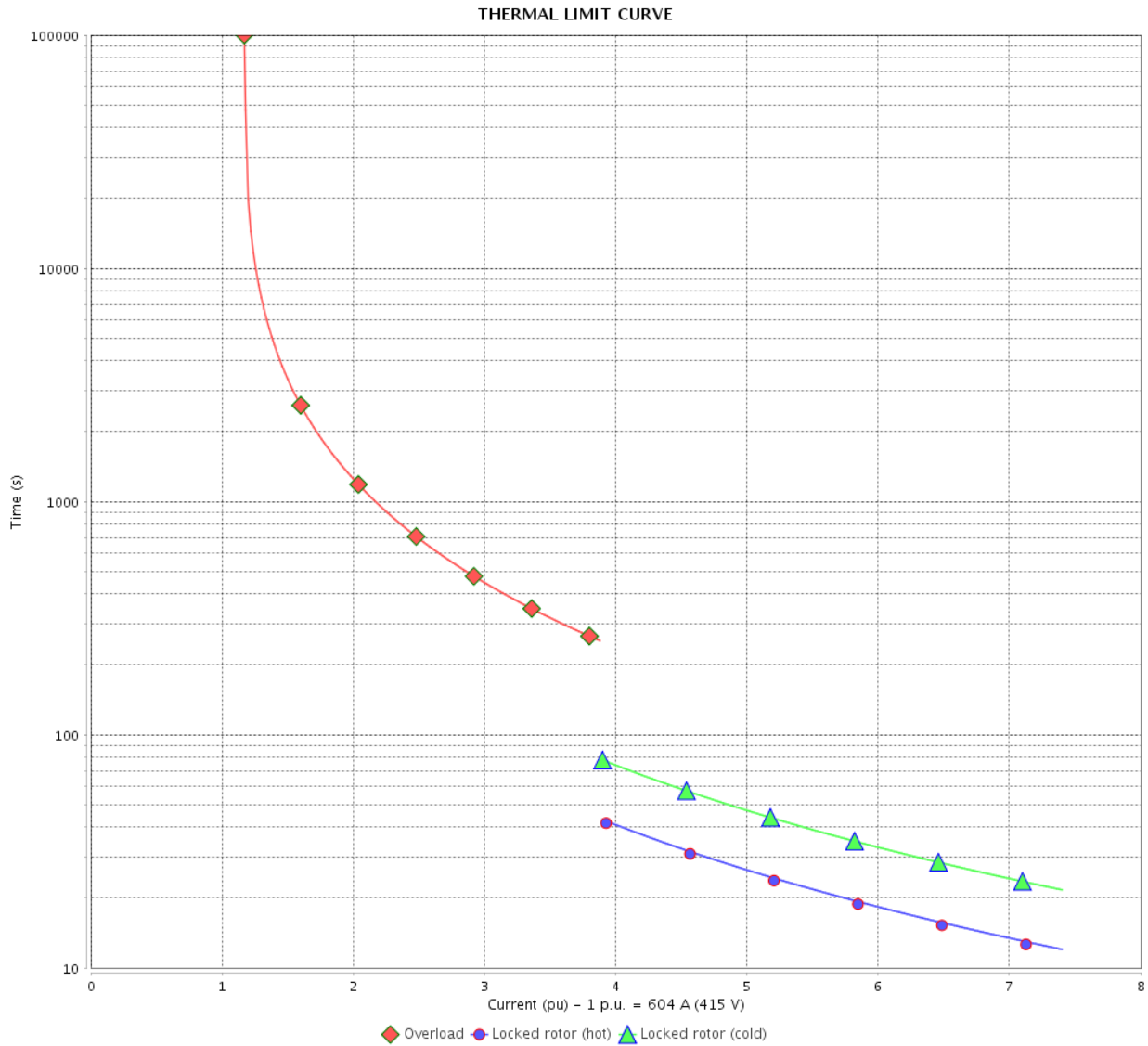
Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page	Revision
Checked by				
Date	12/04/2022			

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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Performed by		Page		Revision
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Date		12/04/2022		

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

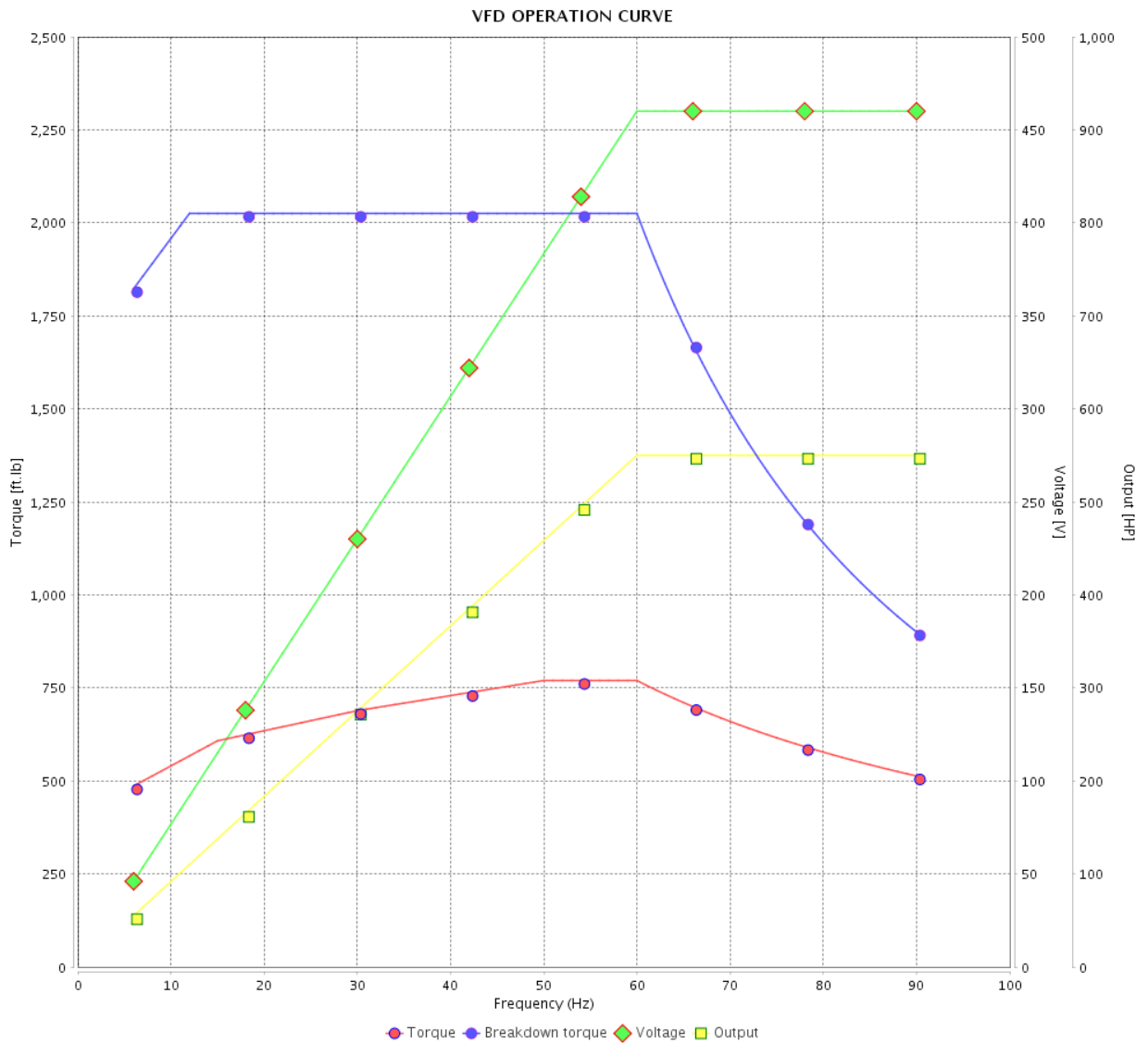


Customer :

Product line : W40 NEMA Premium Efficiency
Three-Phase

Product code : 13621556

Catalog # : 55036OT3G447/9TS-W40



Performance : 460 V 60 Hz 2P

Rated current : 580 A
LRC : 7.2
Rated torque : 810 ft.lb
Locked rotor torque : 200 %
Breakdown torque : 250 %
Rated speed : 3565 rpm

Moment of inertia (J) : 50.3 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K

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Date	12/04/2022			

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

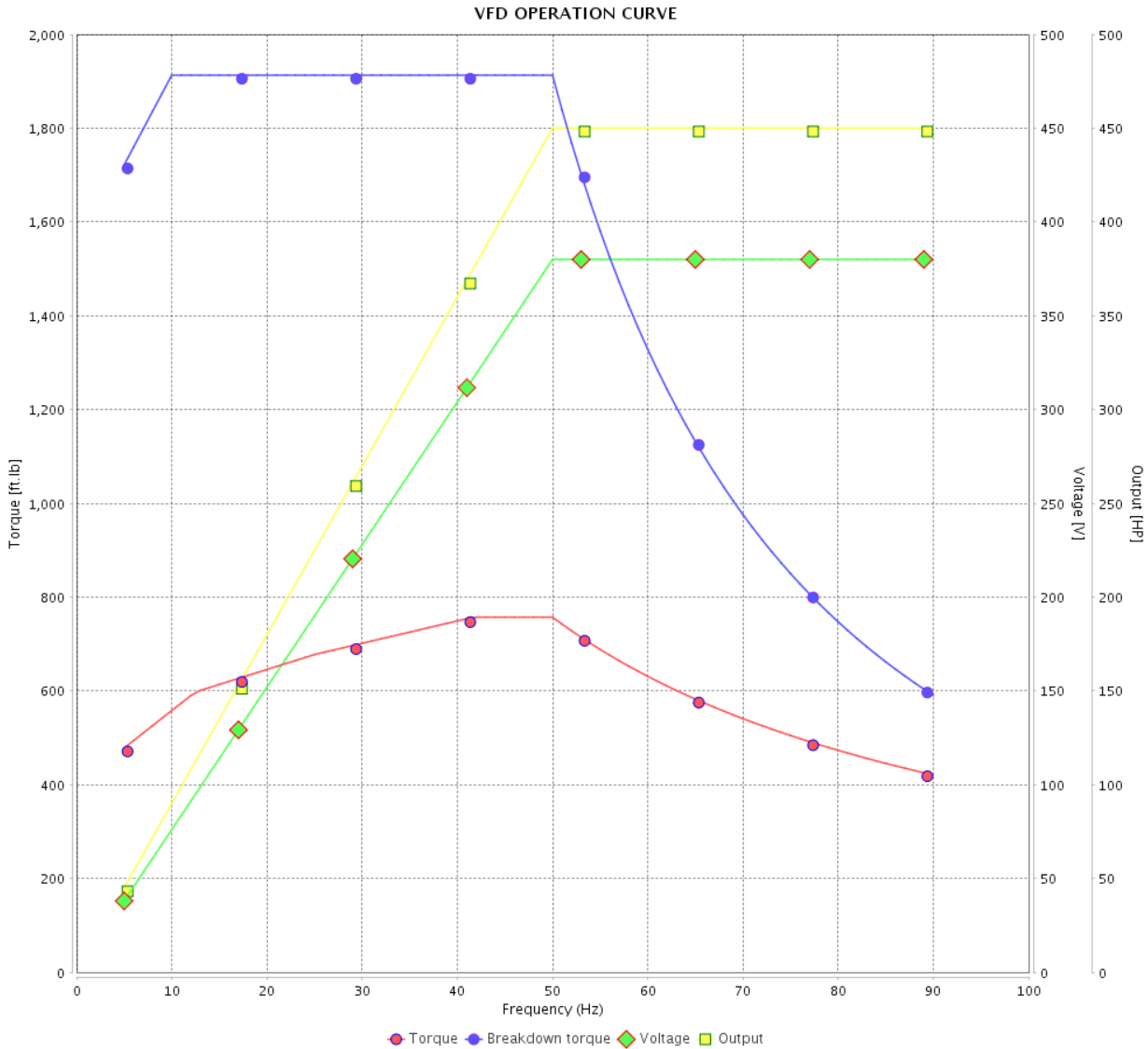


Customer :

Product line : W40 NEMA Premium Efficiency
Three-Phase

Product code : 13621556

Catalog # : 55036OT3G447/9TS-W40



Performance : 380 V 50 Hz 2P IE3

Rated current : 582 A
LRC : 6.7
Rated torque : 797 ft.lb
Locked rotor torque : 200 %
Breakdown torque : 240 %
Rated speed : 2965 rpm

Moment of inertia (J) : 50.3 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 105 K

Rev.	Changes Summary	Performed	Checked	Date
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Date				
			32 / 37	

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

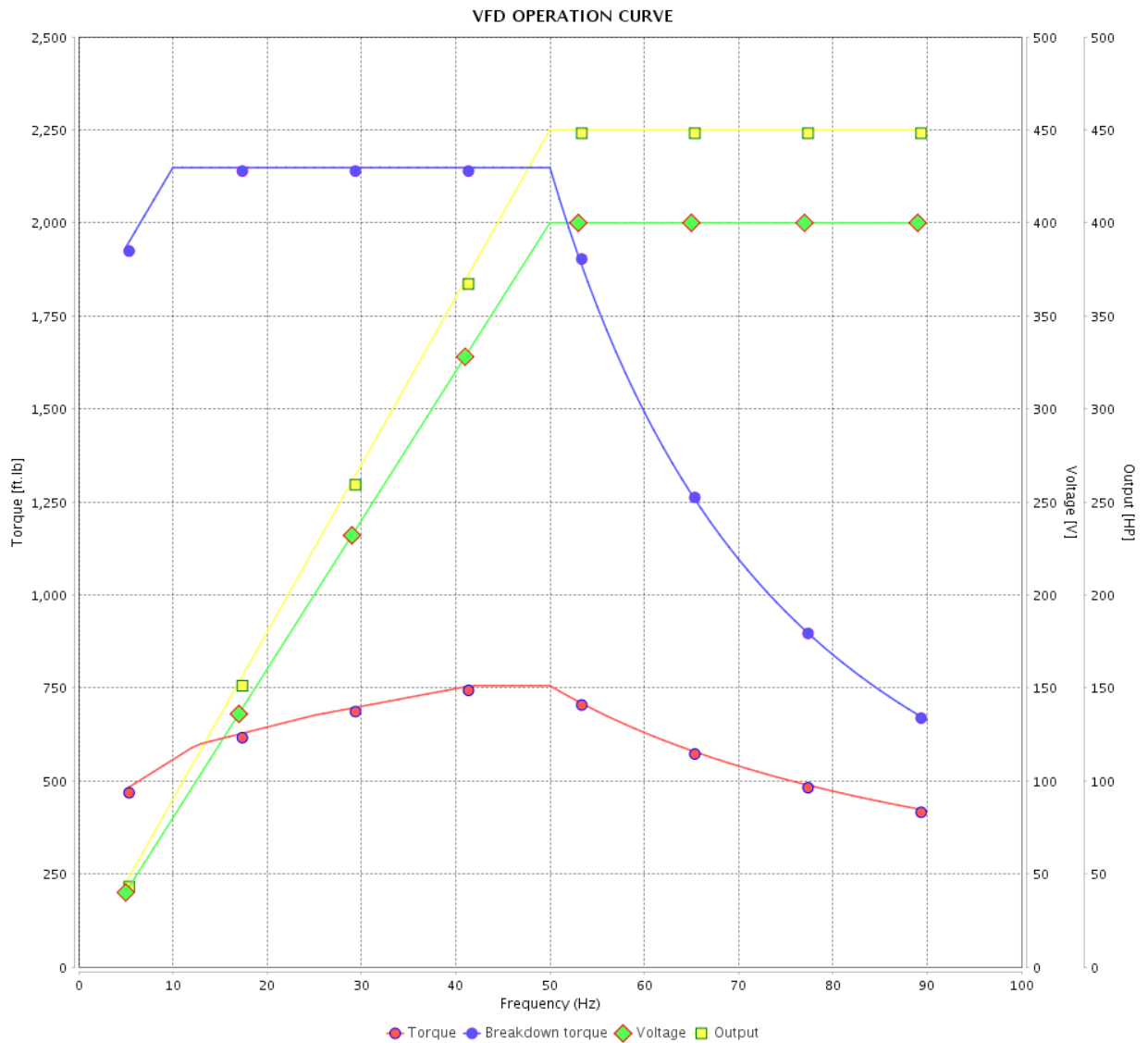


Customer :

Product line : W40 NEMA Premium Efficiency
Three-Phase

Product code : 13621556

Catalog # : 55036OT3G447/9TS-W40



Performance : 400 V 50 Hz 2P IE3

Rated current : 552 A
LRC : 7.4
Rated torque : 796 ft.lb
Locked rotor torque : 220 %
Breakdown torque : 270 %
Rated speed : 2970 rpm

Moment of inertia (J) : 50.3 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		Revision
Checked by		33 / 37		
Date		12/04/2022		

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

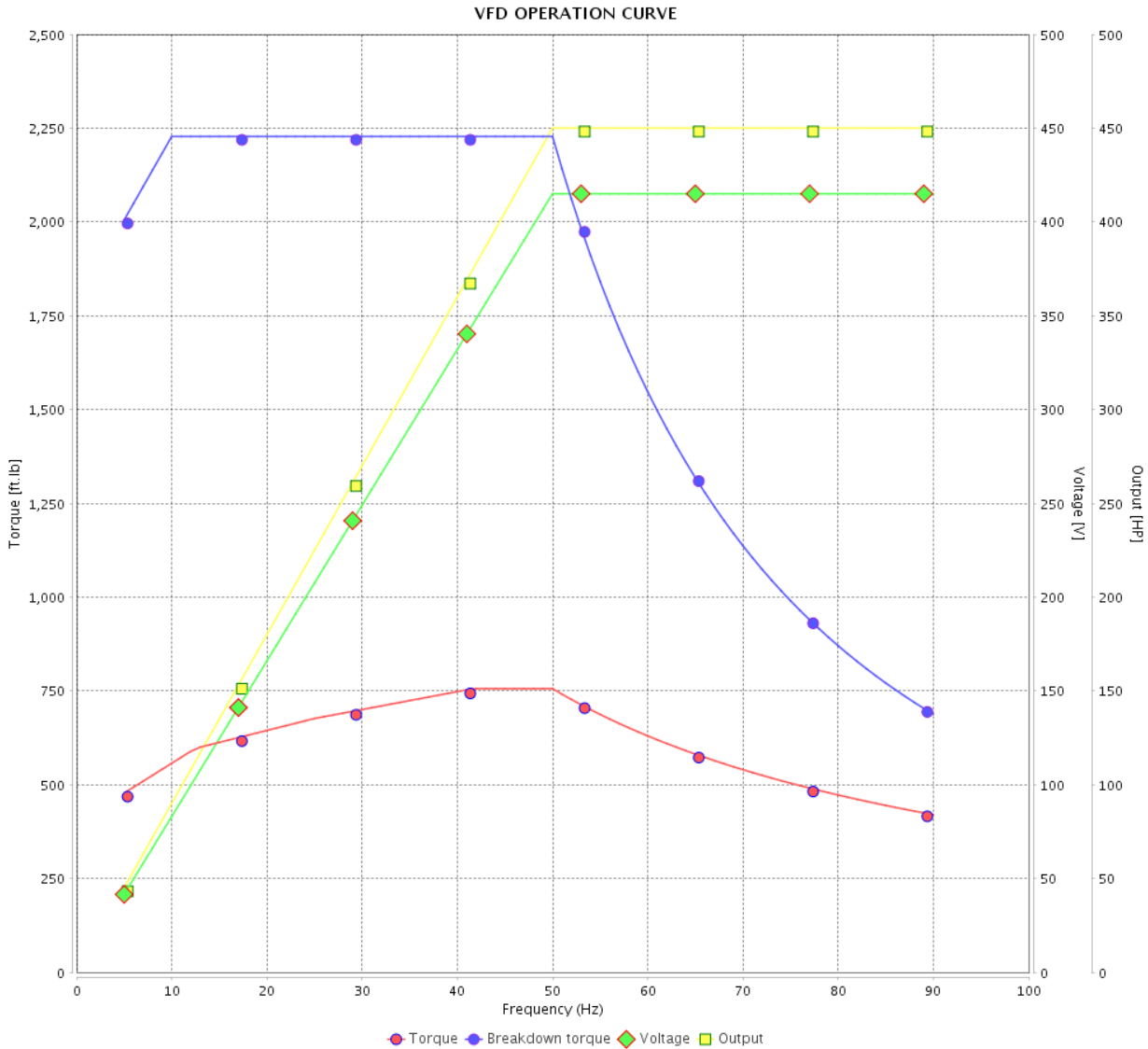


Customer :

Product line : W40 NEMA Premium Efficiency
Three-Phase

Product code : 13621556

Catalog # : 55036OT3G447/9TS-W40



Performance : 415 V 50 Hz 2P IE3

Rated current : 538 A
 LRC : 8.2
 Rated torque : 796 ft.lb
 Locked rotor torque : 240 %
 Breakdown torque : 280 %
 Rated speed : 2970 rpm

Moment of inertia (J) : 50.3 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				
Date				

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

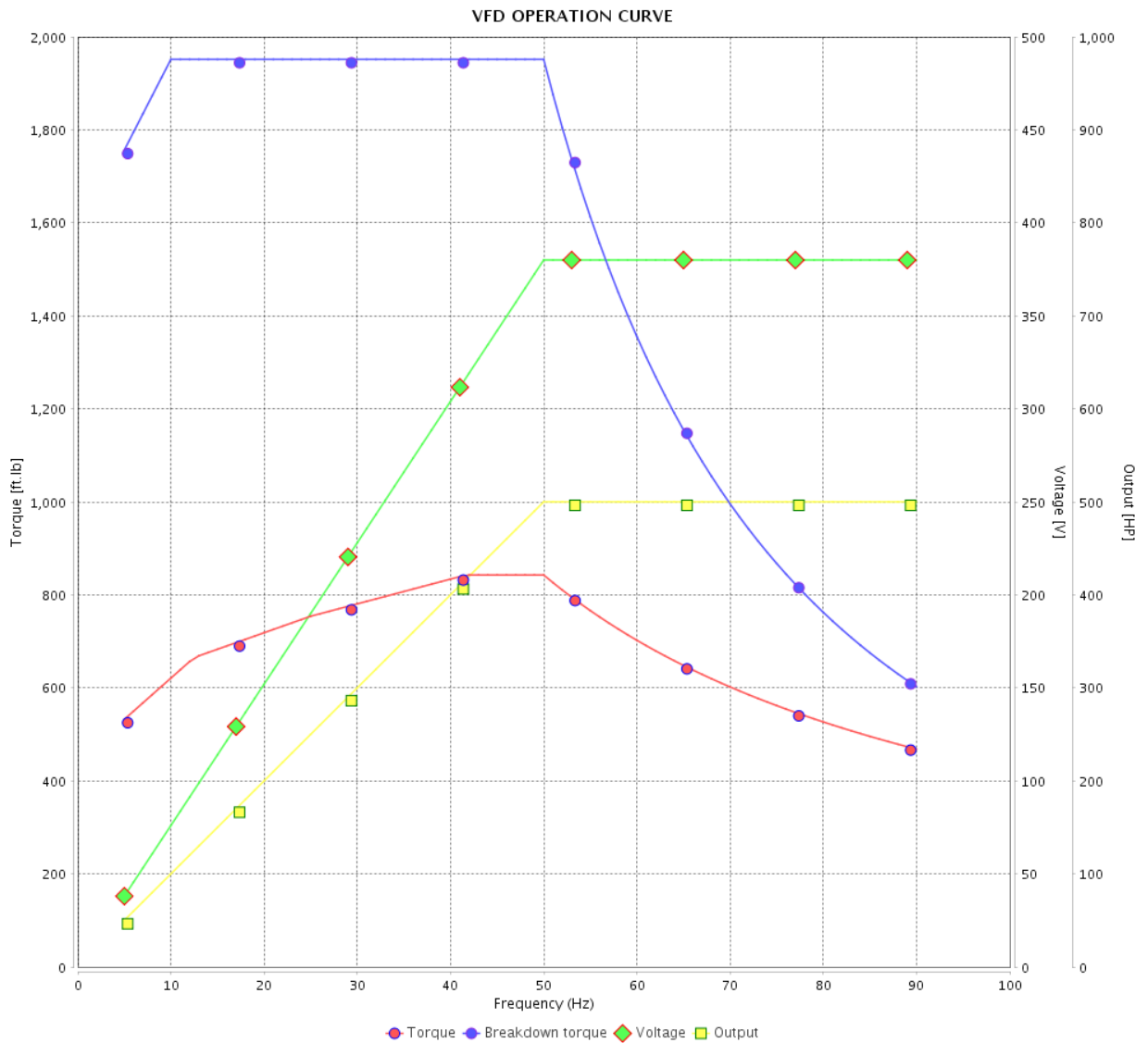


Customer :

Product line : W40 NEMA Premium Efficiency
Three-Phase

Product code : 13621556

Catalog # : 55036OT3G447/9TS-W40



Performance : 380 V 50 Hz 2P IE2

Rated current : 655 A
 LRC : 6.0
 Rated torque : 887 ft.lb
 Locked rotor torque : 180 %
 Breakdown torque : 220 %
 Rated speed : 2960 rpm

Moment of inertia (J) : 50.3 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



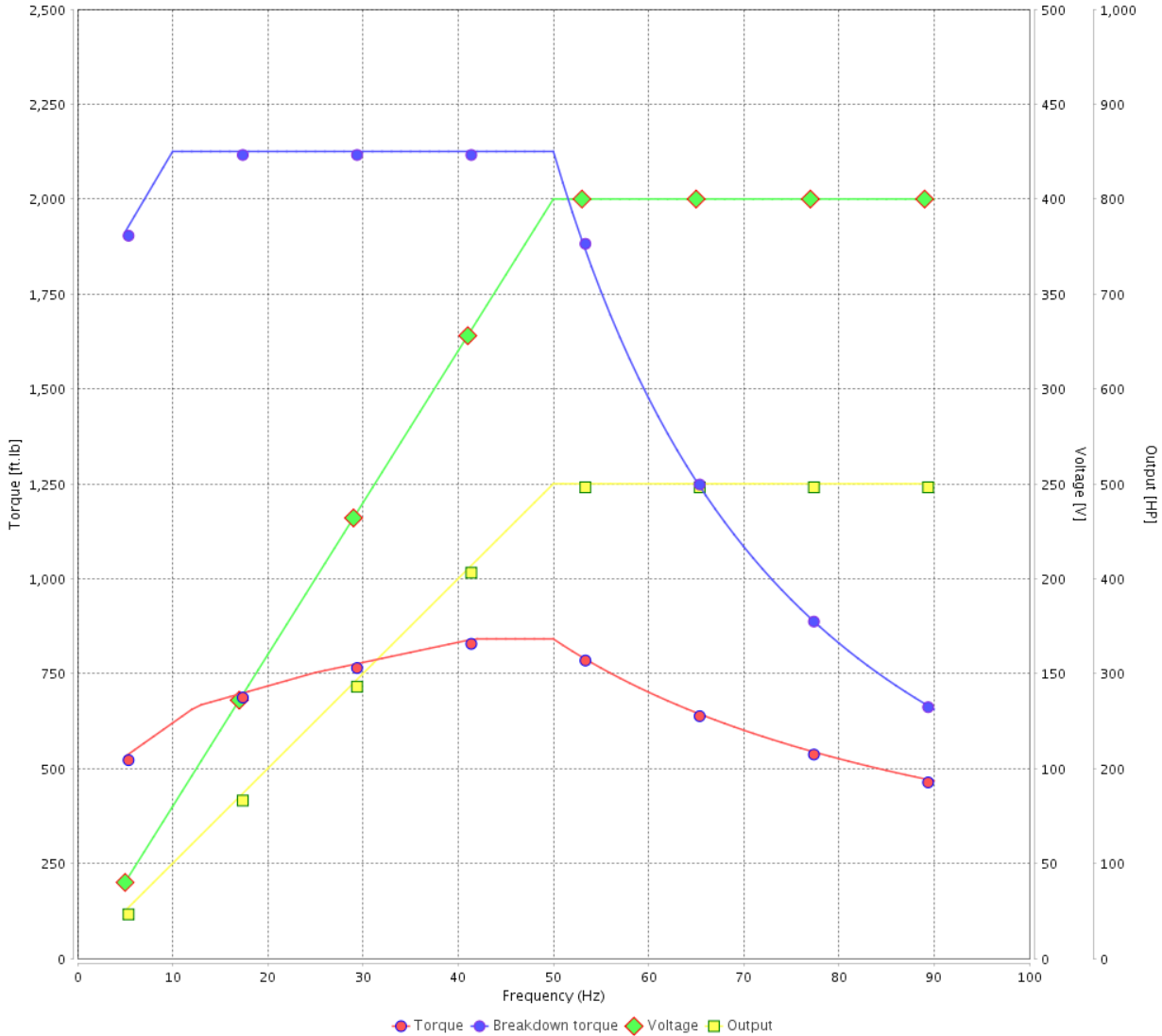
Customer :

Product line : W40 NEMA Premium Efficiency
Three-Phase

Product code : 13621556

Catalog # : 55036OT3G447/9TS-W40

VFD OPERATION CURVE



Performance : 400 V 50 Hz 2P IE3

Rated current : 619 A
LRC : 6.7
Rated torque : 886 ft.lb
Locked rotor torque : 200 %
Breakdown torque : 240 %
Rated speed : 2965 rpm

Moment of inertia (J) : 50.3 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

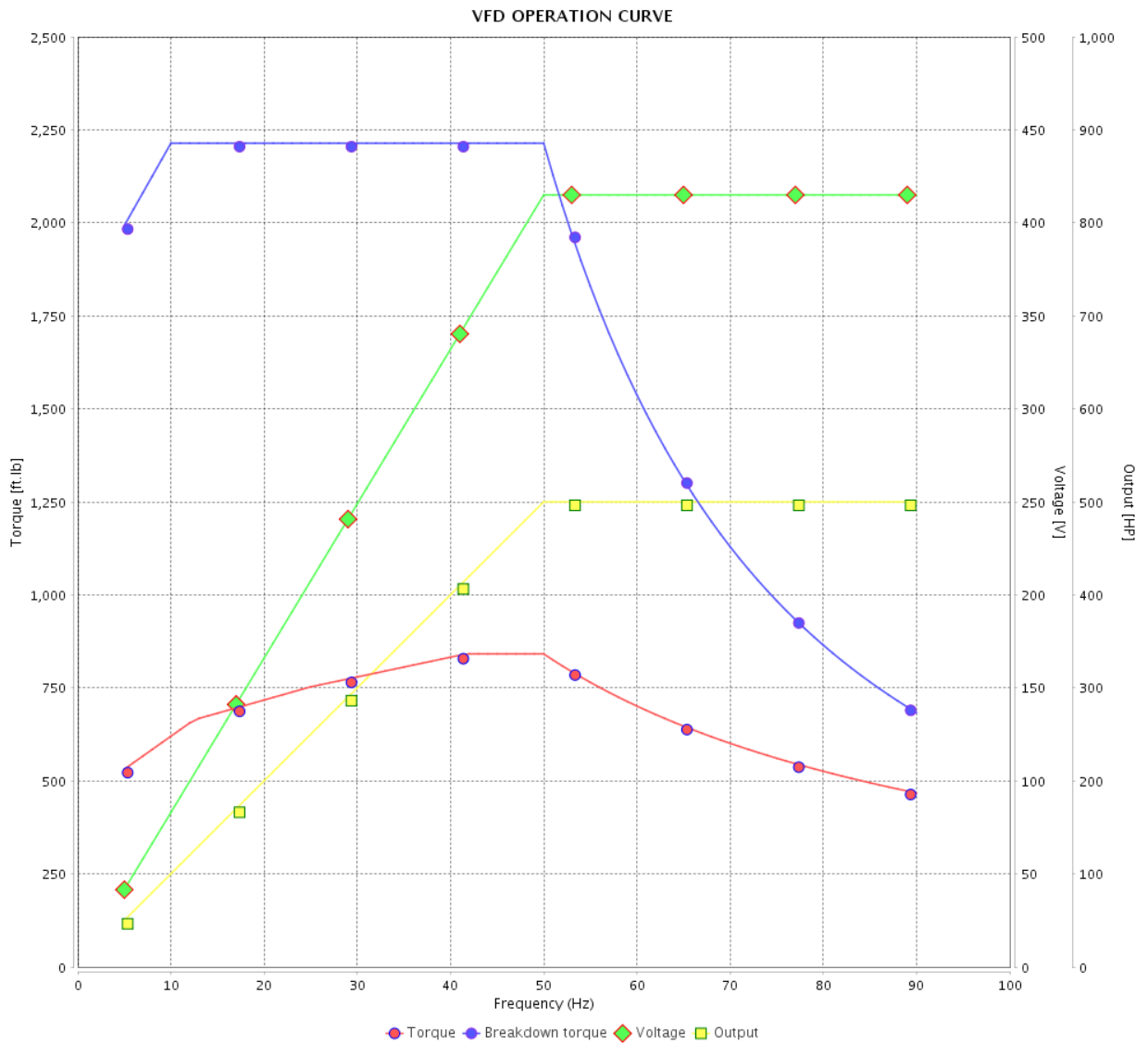


Customer :

Product line : W40 NEMA Premium Efficiency
Three-Phase

Product code : 13621556

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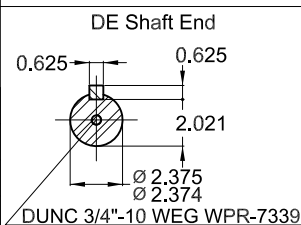
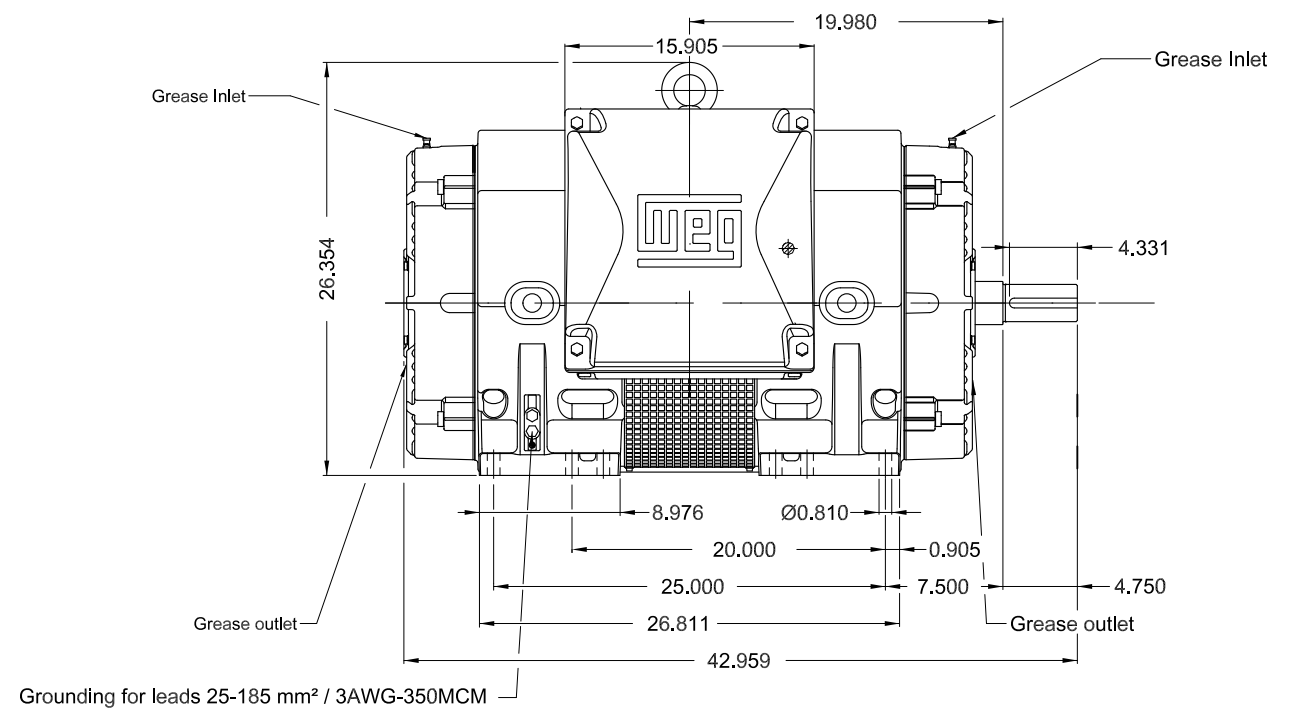
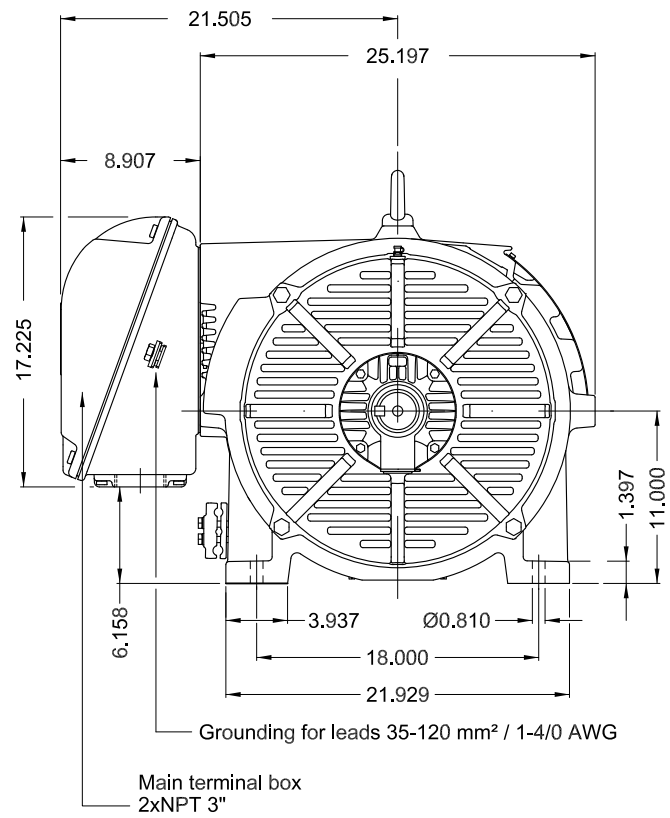


Performance : 415 V 50 Hz 2P IE3

Rated current : 604 A
LRC : 7.4
Rated torque : 886 ft.lb
Locked rotor torque : 220 %
Breakdown torque : 250 %
Rated speed : 2965 rpm

Moment of inertia (J) : 50.3 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			



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

550 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.					
CHECKED		FRAME 447/9TS IP23 ODP					
RELEASED							
REL DT.	WMO	Jaragua do Sul	Product Engineering				

PREVIEW
 WDD



SHEET 1 / 1

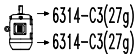
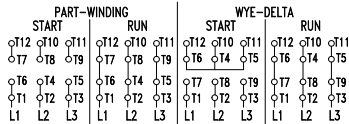
MODEL 550360T3G447/9TS-W40
MADE IN BRAZIL
13621556



MOD.T01#FOXON



PH 3	FR 447/9TS	HP(kW) 550(400)		Hz 60
V 460		A 580		IP23
NEMA NOM EFF		96.2	%	RPM 3565
ENCL ODP	DUTY CONT.		INS. CL. F ΔT 80 K	
PF 0.9		DES -	CODE G	AMB. 40°C
SF 1.15		SFA 667		ALT 1000 m.a.s.l.



MOBIL POLYREX EM
14418 h

2284 Lbs