

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :								
Product line	: W40 NEMA Premium Efficiency Three-Phase	Product code :	13325233	Catalog # :	35018OT3G447/9TS-W40			
Frame	: 447/9TS	Cooling method	: IC01 - ODP					
Insulation class	: F	Mounting	: F-1					
Duty cycle	: Cont.(S1)	Rotation <sup>1</sup>	: Both (CW and CCW)					
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line					
Altitude	: 1000 m.a.s.l.	Approx. weight <sup>2</sup>	: 2077 lb					
Protection degree	: IP23	Moment of inertia (J)	: 66.1 sq.ft.lb					
Design	: B							
Output [HP]	350	250	250	250	300	300	300	
Poles	4	4	4	4	4	4	4	
Frequency [Hz]	60	50	50	50	50	50	50	
Rated voltage [V]	460	380	400	415	380	400	415	
Rated current [A]	396	337	323	315	403	387	377	
L. R. Amperes [A]	2614	2460	2584	2867	2458	2593	2865	
LRC [A]	6.6x(Code G)	7.3x(Code H)	8.0x(Code J)	9.1x(Code K)	6.1x(Code F)	6.7x(Code G)	7.6x(Code H)	
No load current [A]	125	124	135	144	124	135	144	
Rated speed [RPM]	1780	1480	1480	1480	1480	1480	1480	
Slip [%]	1.11	1.33	1.33	1.33	1.33	1.33	1.33	
Rated torque [ft.lb]	1030	887	887	887	1060	1060	1060	
Locked rotor torque [%]	200	220	250	280	180	210	229	
Breakdown torque [%]	229	250	290	320	210	240	270	
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	18s (cold) 10s (hot)	19s (cold) 11s (hot)	19s (cold) 11s (hot)	18s (cold) 10s (hot)	19s (cold) 11s (hot)	19s (cold) 11s (hot)	18s (cold) 10s (hot)	
Noise level <sup>2</sup>	77.0 dB(A)							
Efficiency (%)	25%	95.7	93.7	93.3	93.3	94.5	94.5	94.5
	50%	95.8	94.7	94.3	94.3	95.0	95.0	95.0
	75%	95.8	95.0	95.1	95.1	95.0	95.0	95.0
	100%	95.8	96.0	96.0	96.0	95.4	95.4	95.4
Power Factor	25%	0.51	0.48	0.45	0.41	0.55	0.51	0.47
	50%	0.76	0.74	0.71	0.67	0.81	0.77	0.74
	75%	0.83	0.84	0.82	0.80	0.85	0.85	0.83
	100%	0.86	0.87	0.86	0.85	0.87	0.86	0.85
Bearing type	: Drive end 6314 C3	: Non drive end 6314 C3	Foundation loads					
Sealing	: Without	: Without	Max. traction	: 6623 lb				
	Bearing Seal		Max. compression	: 8700 lb				
Lubrication interval	: 20000 h	: 20000 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



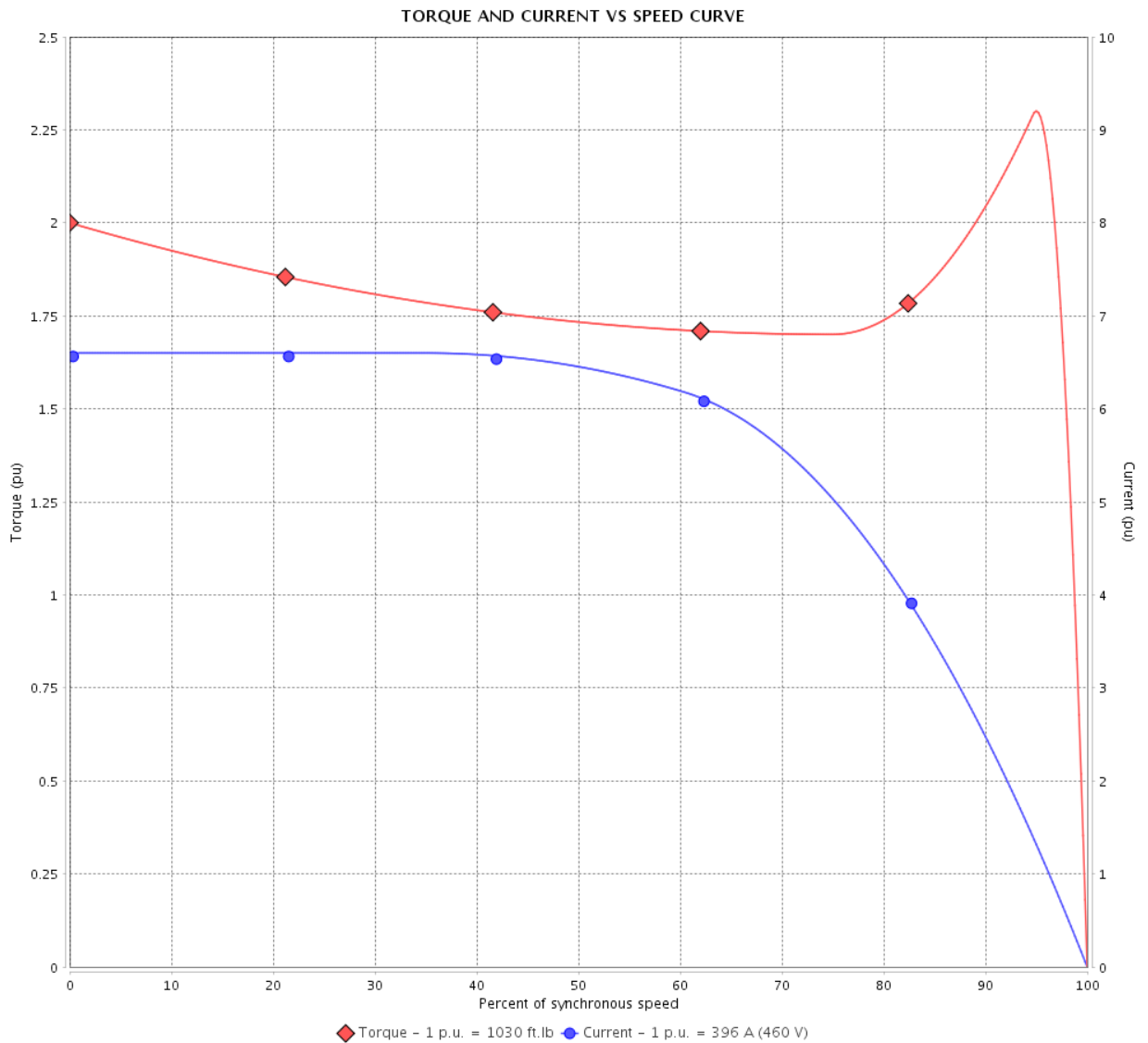
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Product line : W40 NEMA Premium Efficiency  
Three-Phase

Product code : 13325233

Catalog # : 35018OT3G447/9TS-W40



Performance : 460 V 60 Hz 4P

Rated current	: 396 A	Moment of inertia (J)	: 66.1 sq.ft.lb
LRC	: 6.6	Duty cycle	: Cont.(S1)
Rated torque	: 1030 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 229 %	Temperature rise	: 80 K
Rated speed	: 1780 rpm	Design	: B

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

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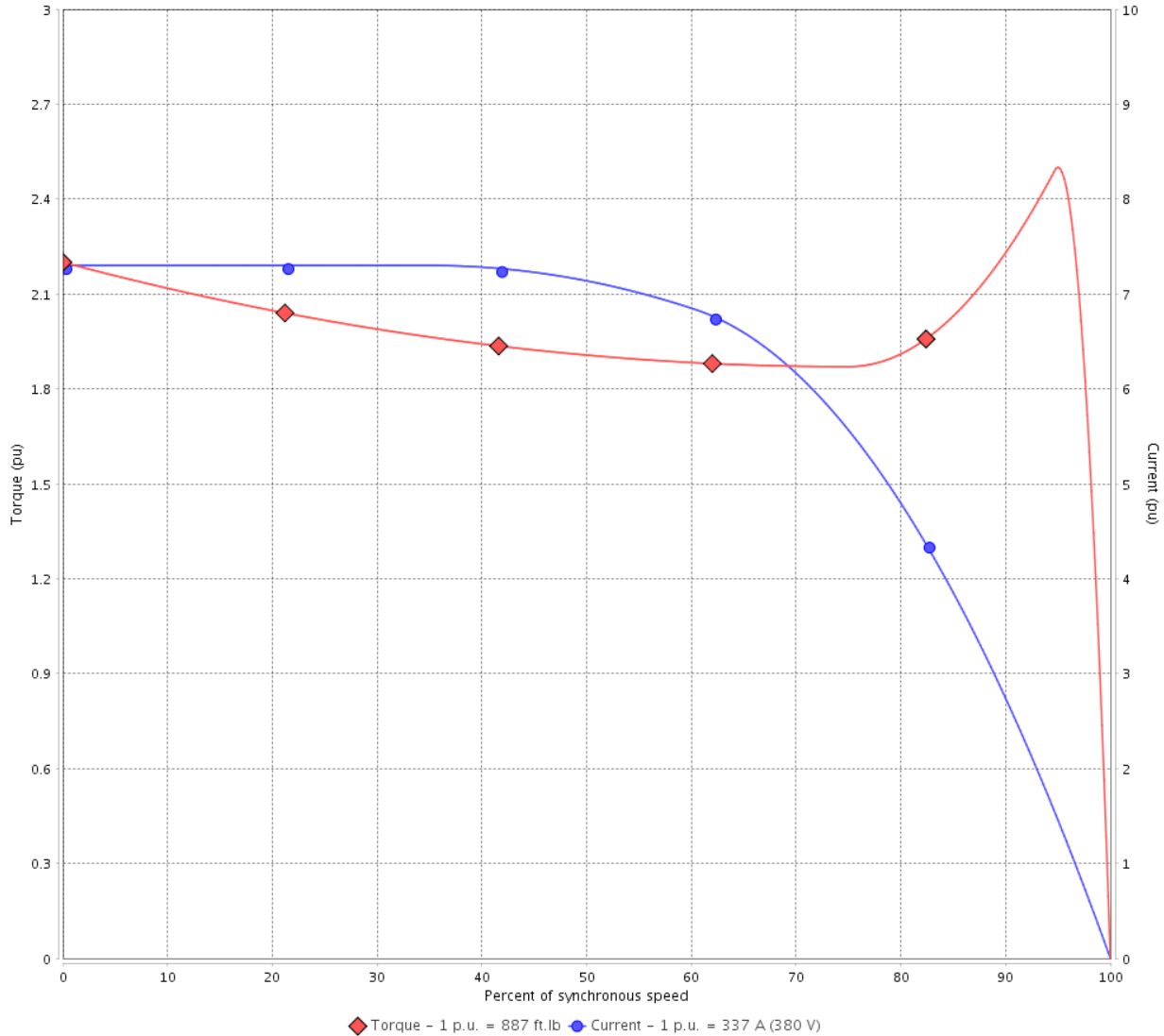
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TORQUE AND CURRENT VS SPEED CURVE



Performance : 380 V 50 Hz 4P IE3

Rated current	: 337 A	Moment of inertia (J)	: 66.1 sq.ft.lb
LRC	: 7.3	Duty cycle	: Cont.(S1)
Rated torque	: 887 ft.lb	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.15
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 1480 rpm	Design	: B

Locked rotor time : 19s (cold) 11s (hot)

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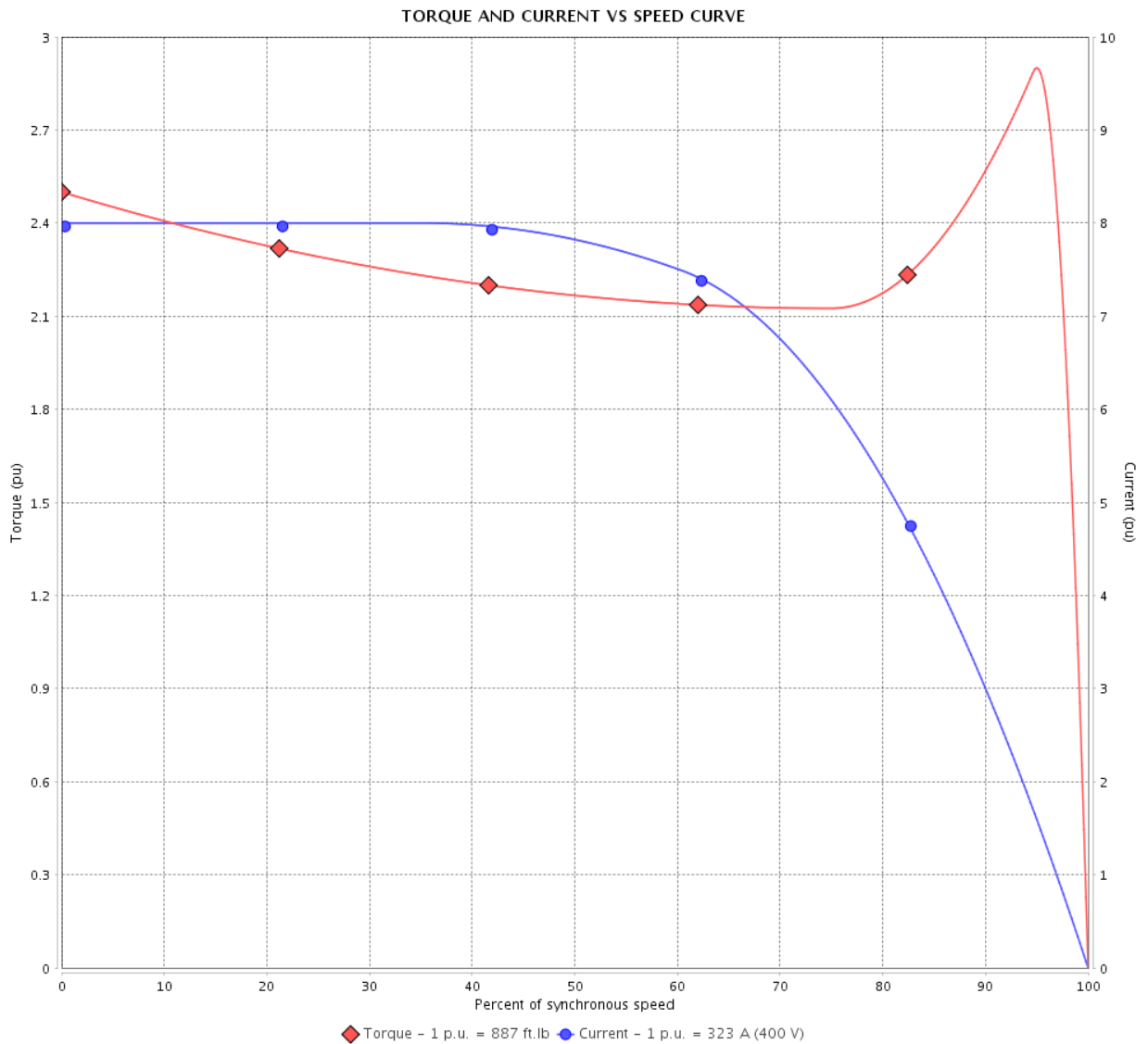
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Performance : 400 V 50 Hz 4P IE3

Rated current	: 323 A	Moment of inertia (J)	: 66.1 sq.ft.lb
LRC	: 8.0	Duty cycle	: Cont.(S1)
Rated torque	: 887 ft.lb	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.15
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 1480 rpm	Design	: B

Locked rotor time : 19s (cold) 11s (hot)

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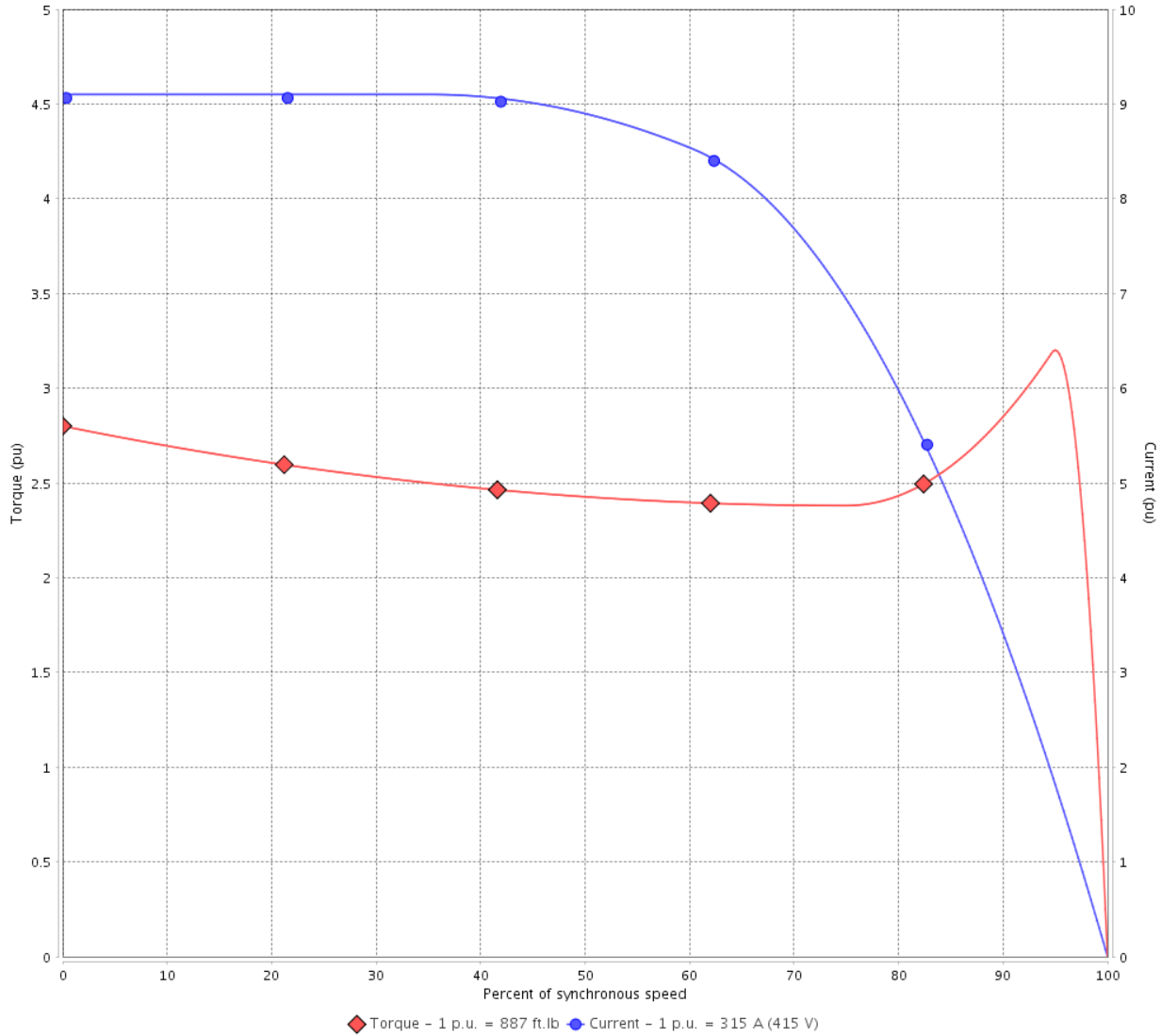
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Performance : 415 V 50 Hz 4P IE3

Rated current	: 315 A	Moment of inertia (J)	: 66.1 sq.ft.lb
LRC	: 9.1	Duty cycle	: Cont.(S1)
Rated torque	: 887 ft.lb	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	: 1.15
Breakdown torque	: 320 %	Temperature rise	: 80 K
Rated speed	: 1480 rpm	Design	: B

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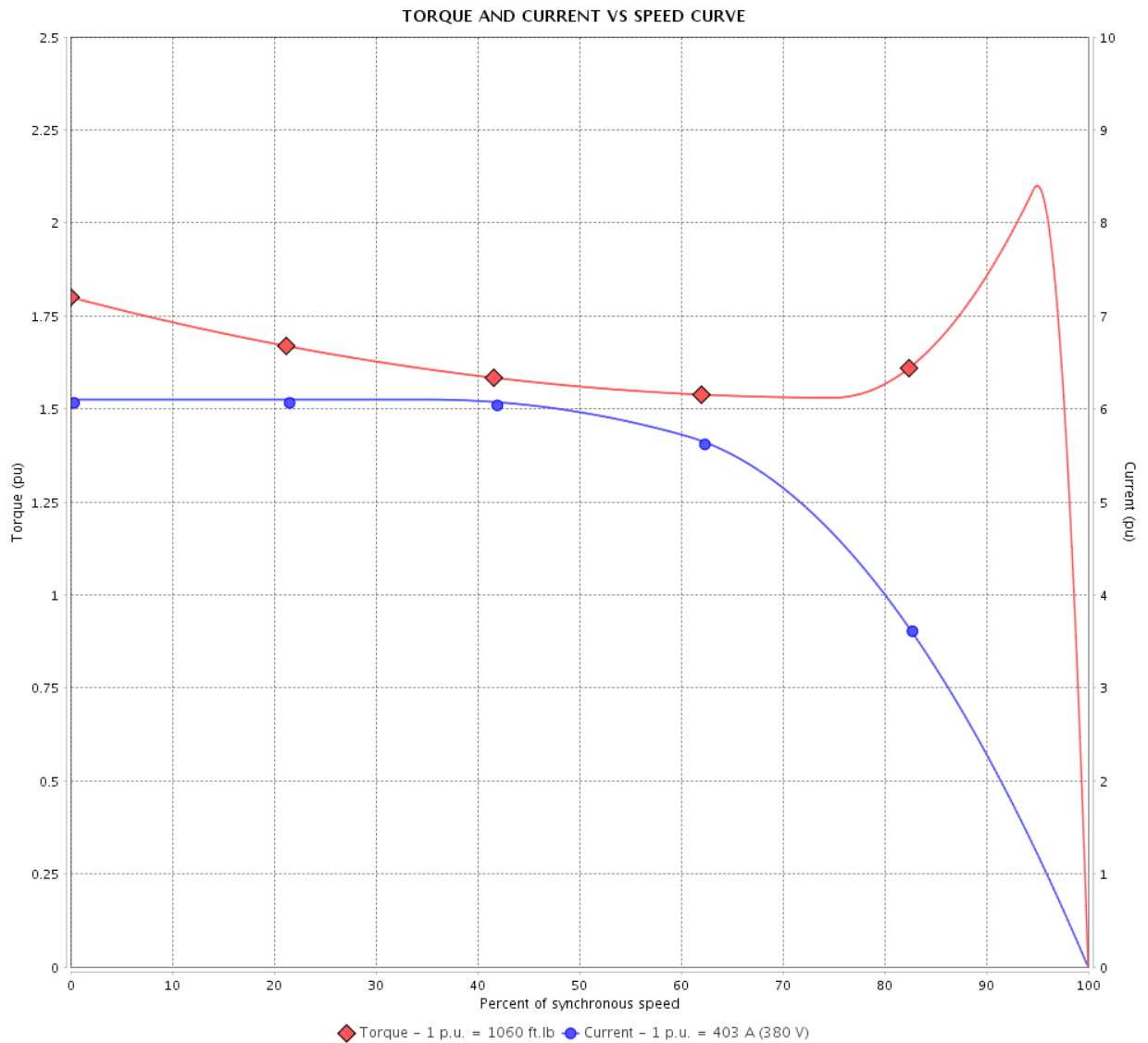
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Catalog # : 35018OT3G447/9TS-W40



Performance : 380 V 50 Hz 4P IE2

Rated current : 403 A  
LRC : 6.1  
Rated torque : 1060 ft.lb  
Locked rotor torque : 180 %  
Breakdown torque : 210 %  
Rated speed : 1480 rpm

Moment of inertia (J) : 66.1 sq.ft.lb  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.15  
Temperature rise : 80 K  
Design : B

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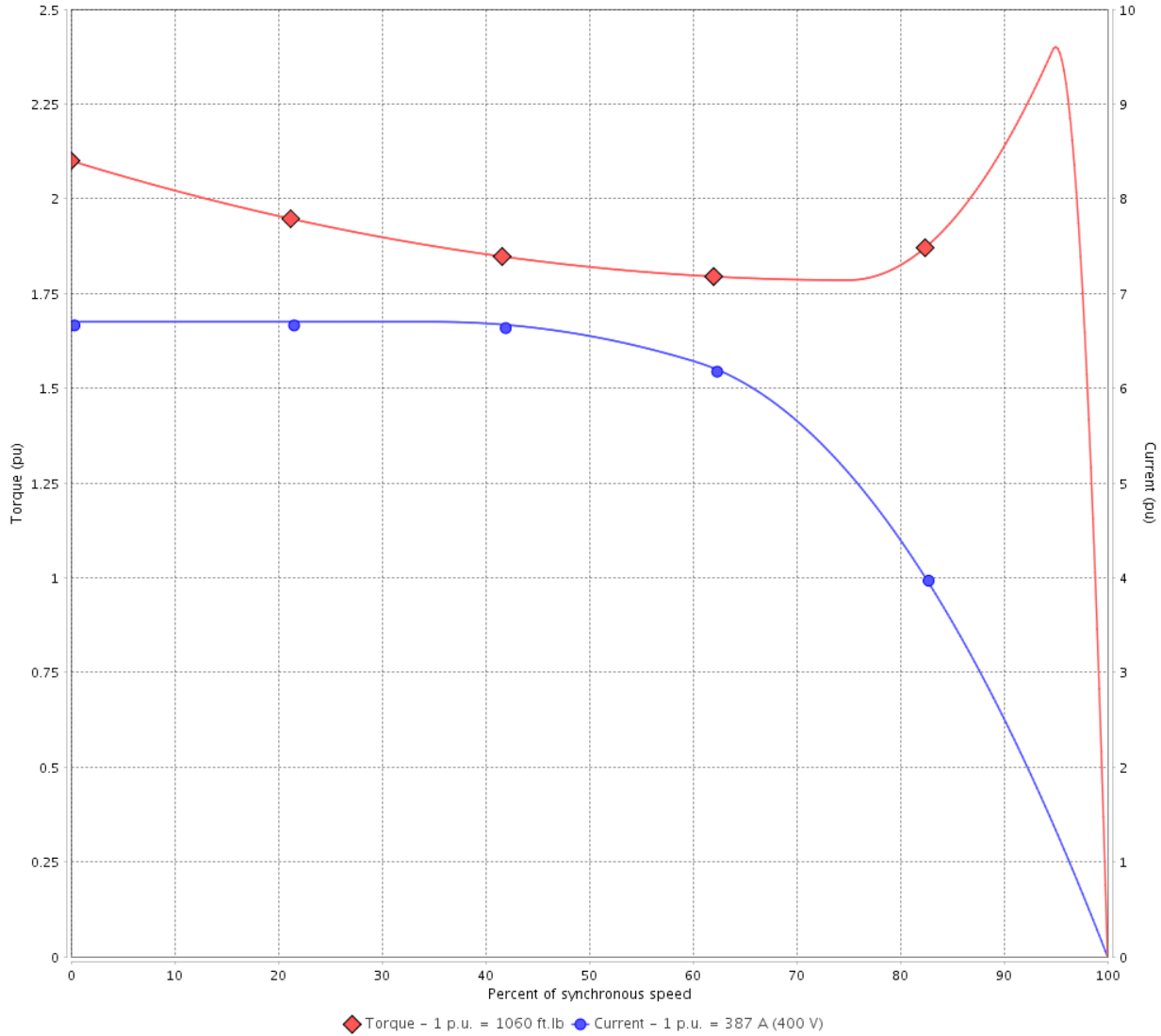
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TORQUE AND CURRENT VS SPEED CURVE



Performance : 400 V 50 Hz 4P IE2

Rated current	: 387 A	Moment of inertia (J)	: 66.1 sq.ft.lb
LRC	: 6.7	Duty cycle	: Cont.(S1)
Rated torque	: 1060 ft.lb	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.15
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 1480 rpm	Design	: B

Locked rotor time : 19s (cold) 11s (hot)

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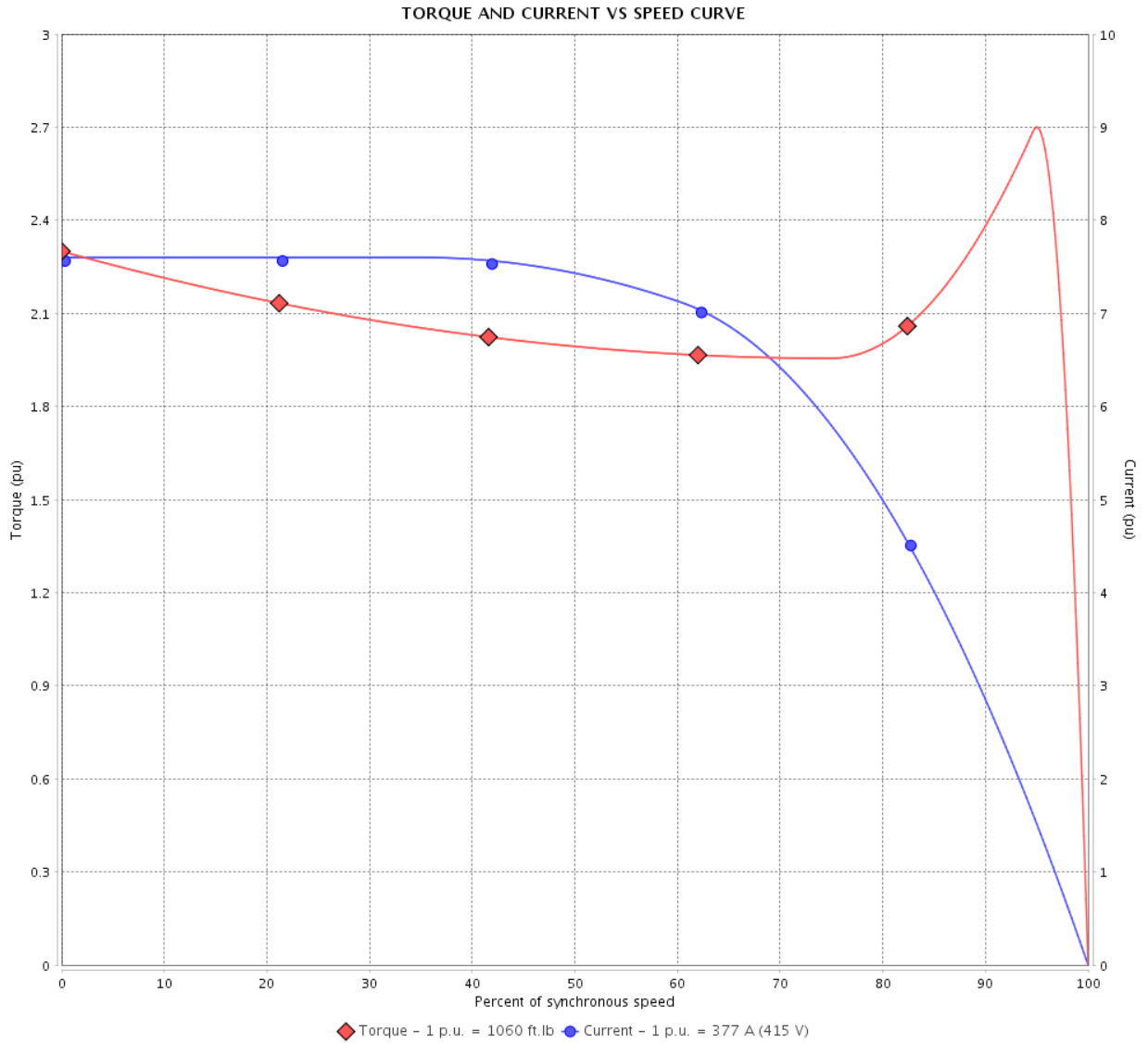
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Performance : 415 V 50 Hz 4P IE2

Rated current	: 377 A	Moment of inertia (J)	: 66.1 sq.ft.lb
LRC	: 7.6	Duty cycle	: Cont.(S1)
Rated torque	: 1060 ft.lb	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.15
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 1480 rpm	Design	: B

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

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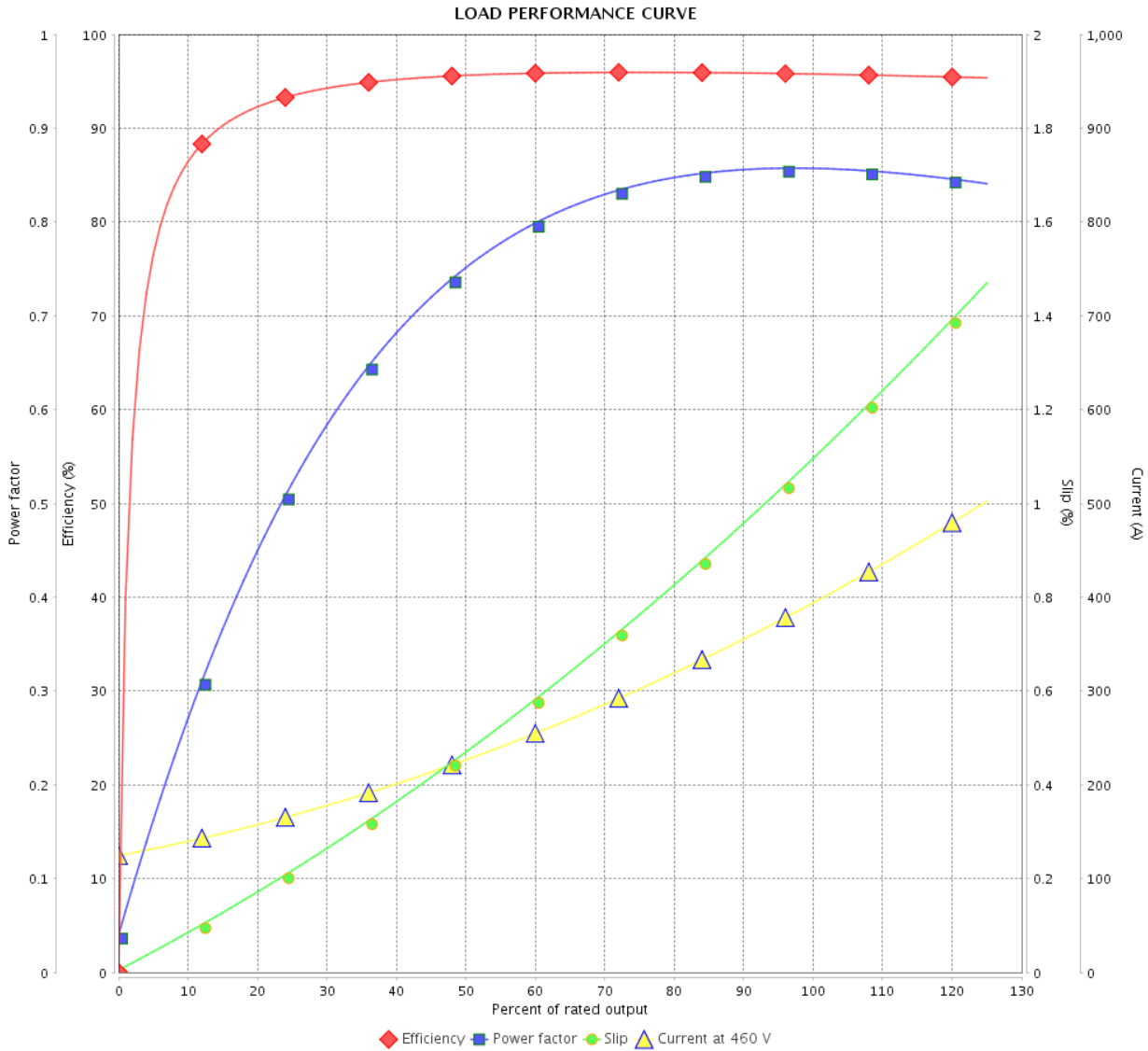


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 LRC : 6.6  
 Rated torque : 1030 ft.lb  
 Locked rotor torque : 200 %  
 Breakdown torque : 229 %  
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 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
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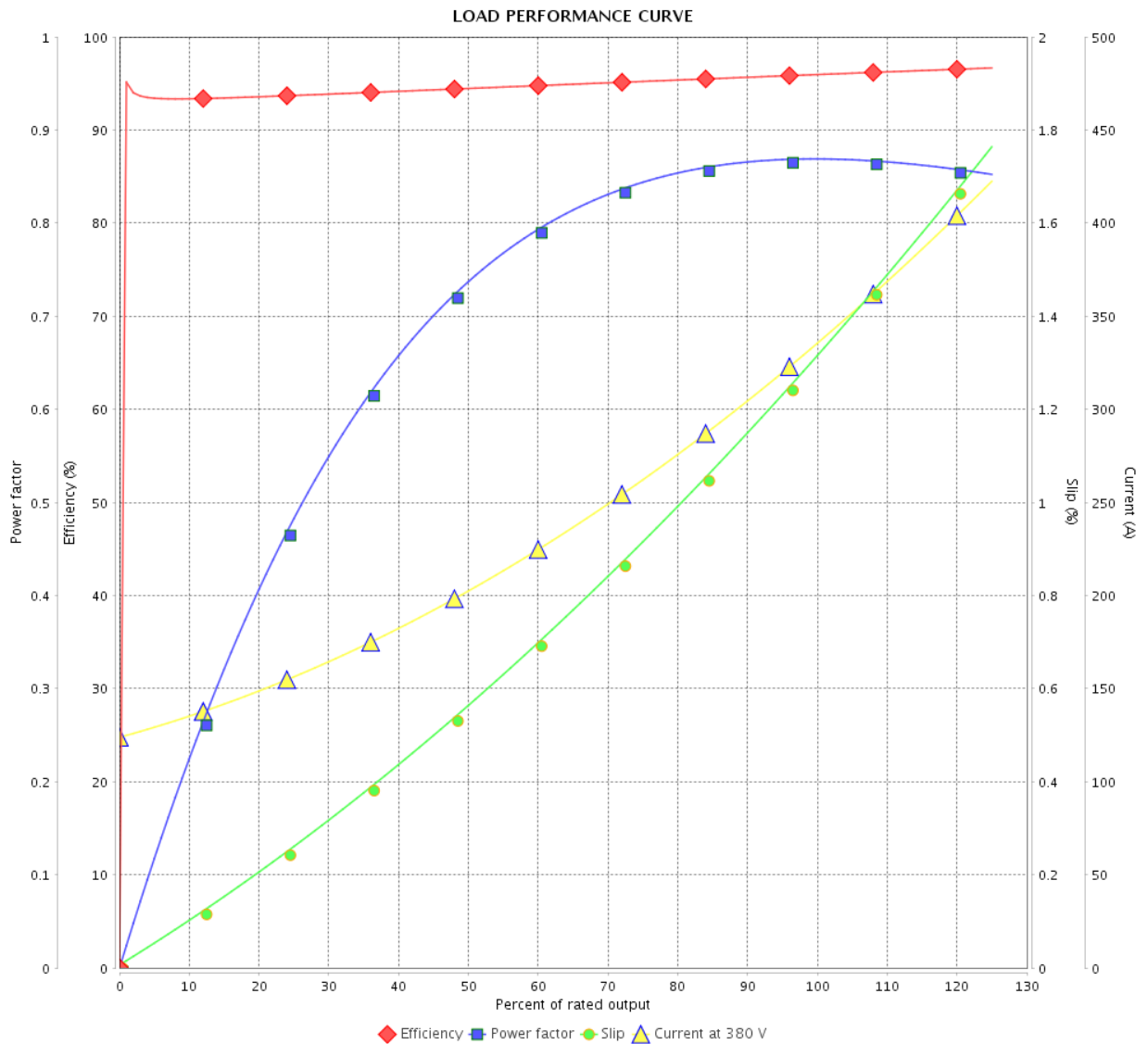


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Performance : 380 V 50 Hz 4P IE3

Rated current : 337 A  
 LRC : 7.3  
 Rated torque : 887 ft.lb  
 Locked rotor torque : 220 %  
 Breakdown torque : 250 %  
 Rated speed : 1480 rpm

Moment of inertia (J) : 66.1 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

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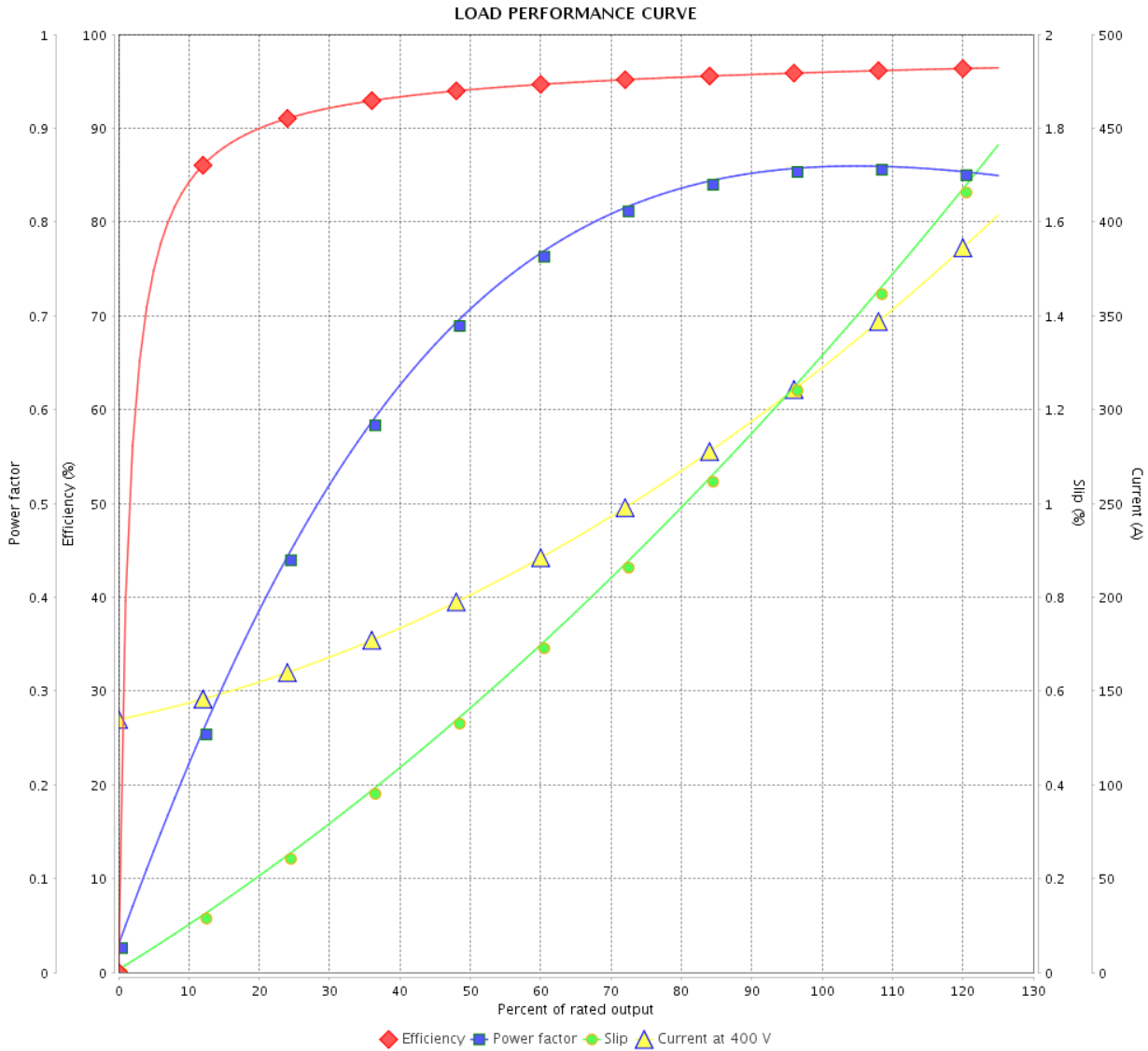


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Performance : 400 V 50 Hz 4P IE3

Rated current	: 323 A	Moment of inertia (J)	: 66.1 sq.ft.lb
LRC	: 8.0	Duty cycle	: Cont.(S1)
Rated torque	: 887 ft.lb	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.15
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 1480 rpm	Design	: B

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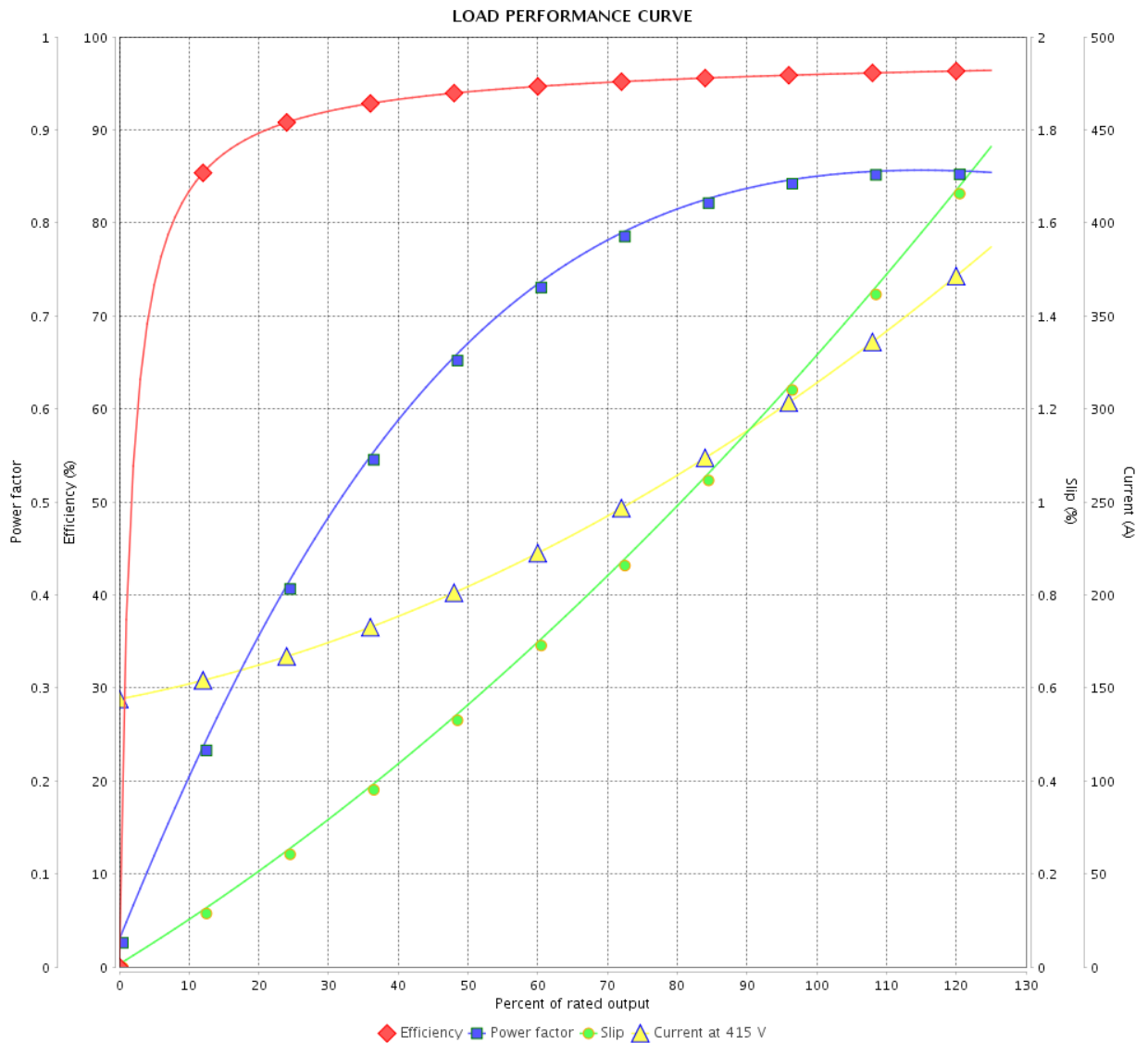


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Performance : 415 V 50 Hz 4P IE3

Rated current : 315 A  
 LRC : 9.1  
 Rated torque : 887 ft.lb  
 Locked rotor torque : 280 %  
 Breakdown torque : 320 %  
 Rated speed : 1480 rpm

Moment of inertia (J) : 66.1 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

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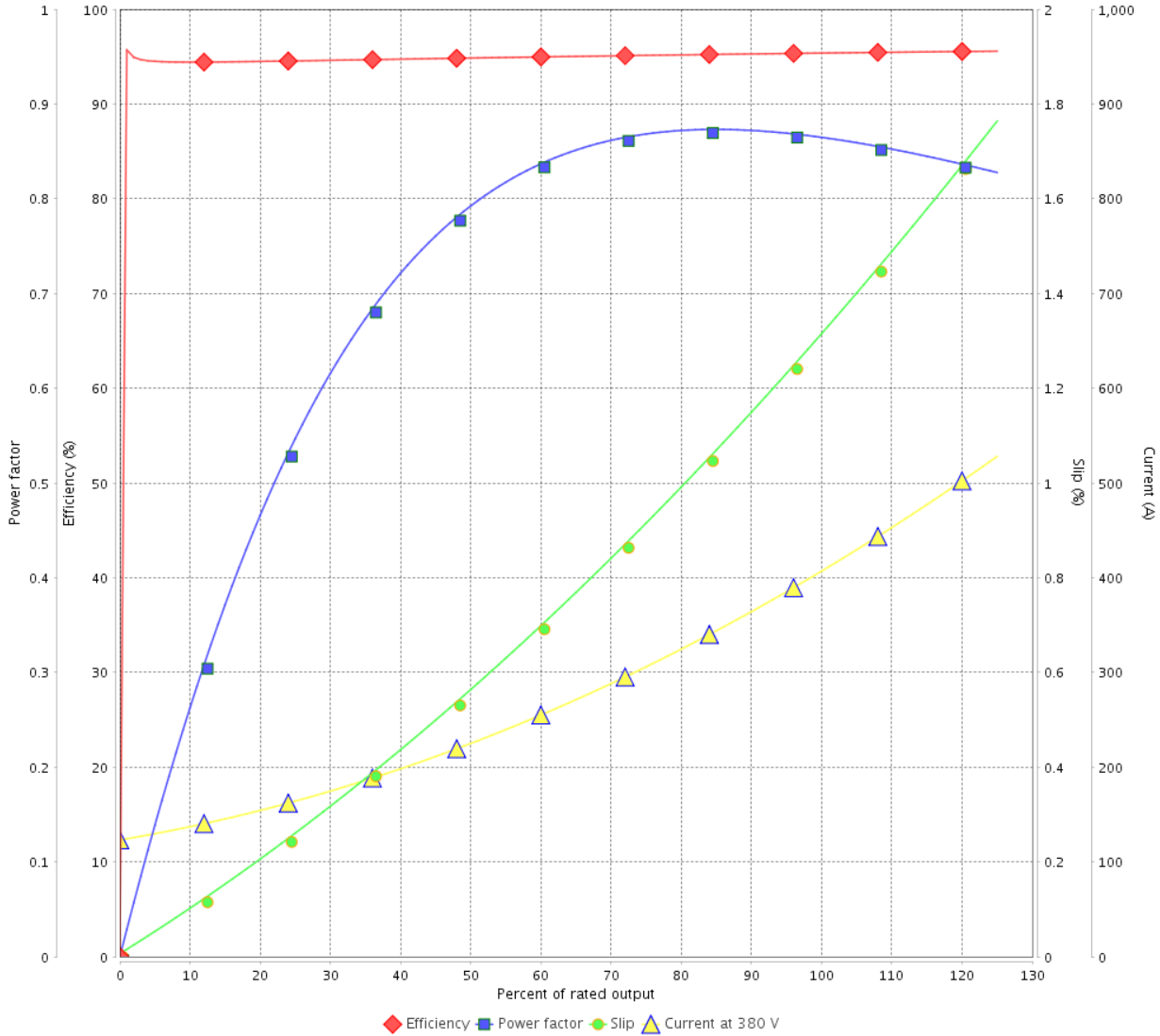
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Performance : 380 V 50 Hz 4P IE2

Rated current : 403 A  
 LRC : 6.1  
 Rated torque : 1060 ft.lb  
 Locked rotor torque : 180 %  
 Breakdown torque : 210 %  
 Rated speed : 1480 rpm

Moment of inertia (J) : 66.1 sq.ft.lb  
 Duty cycle : Cont.(S1)  
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 Service factor : 1.15  
 Temperature rise : 80 K  
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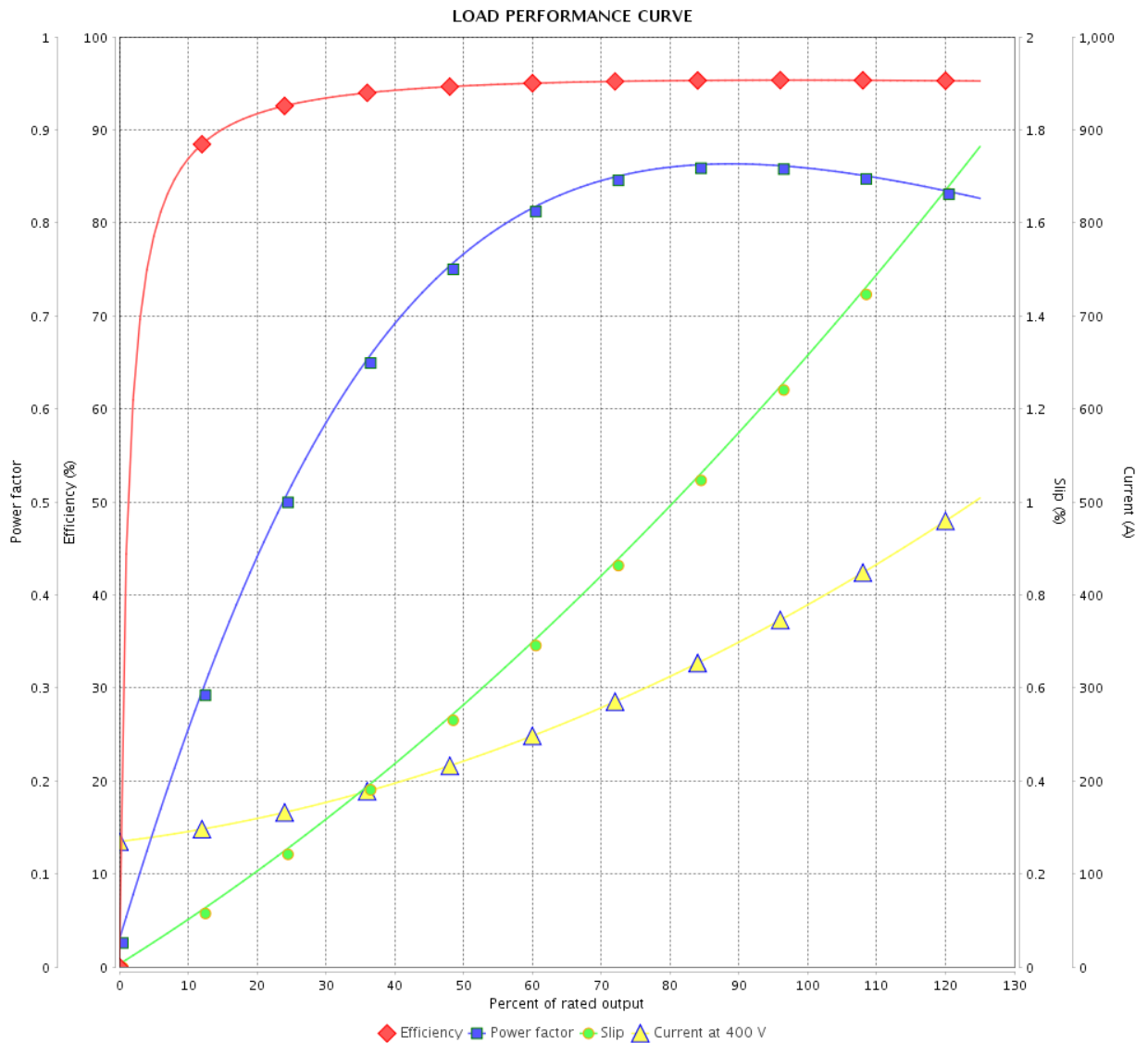


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Performance : 400 V 50 Hz 4P IE2

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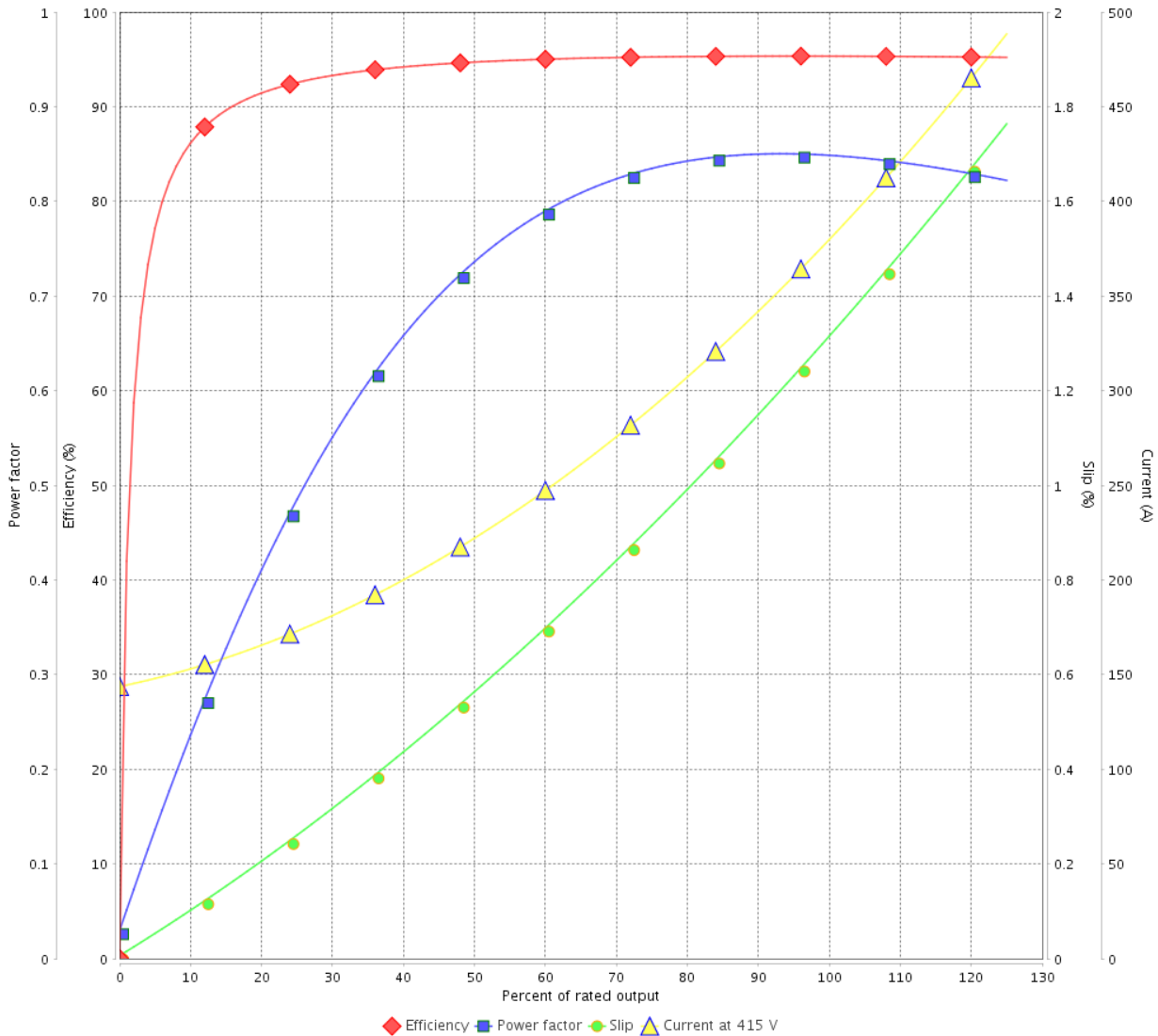
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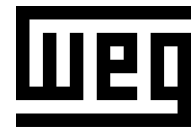
Heating constant

Cooling constant

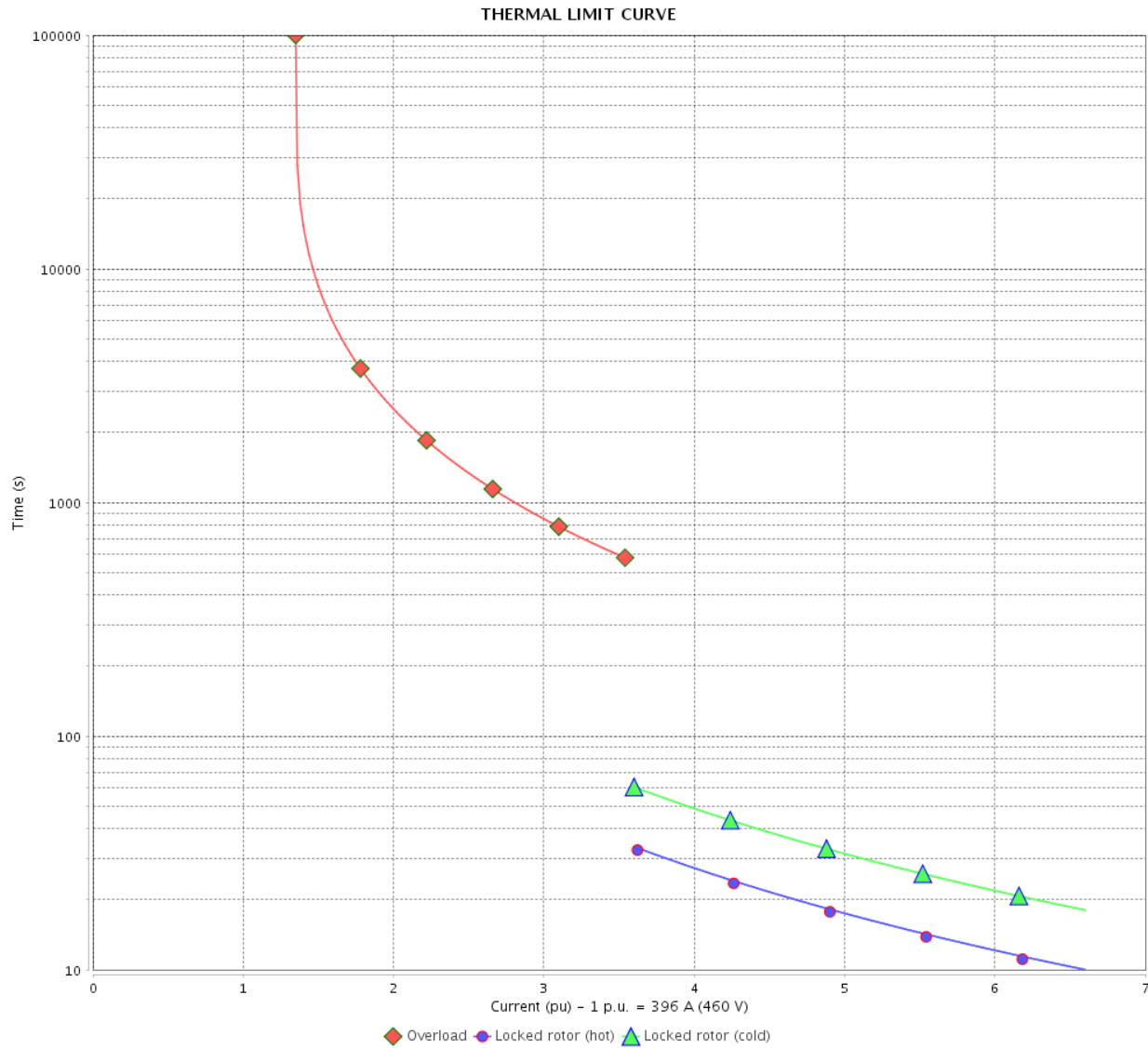
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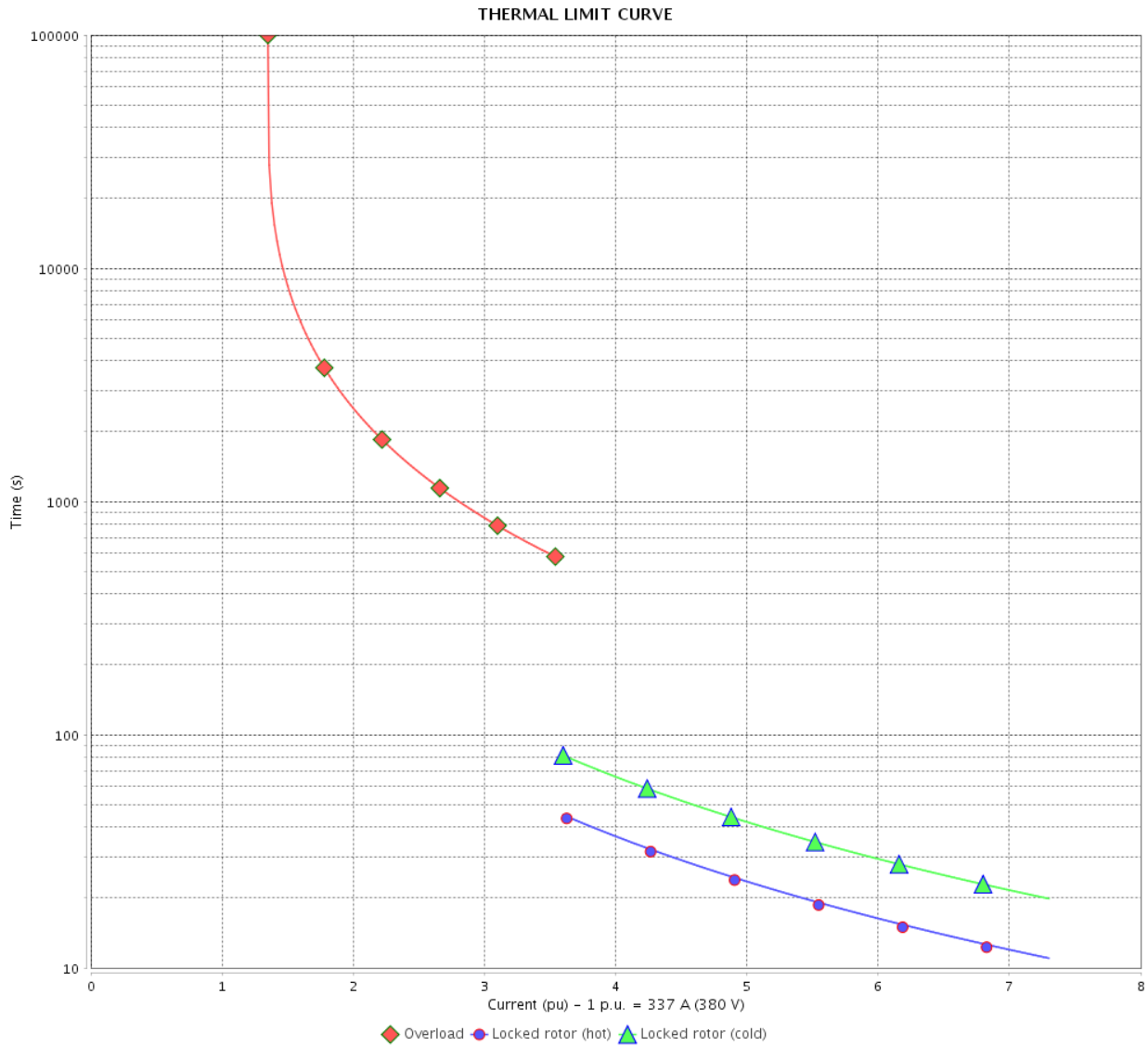
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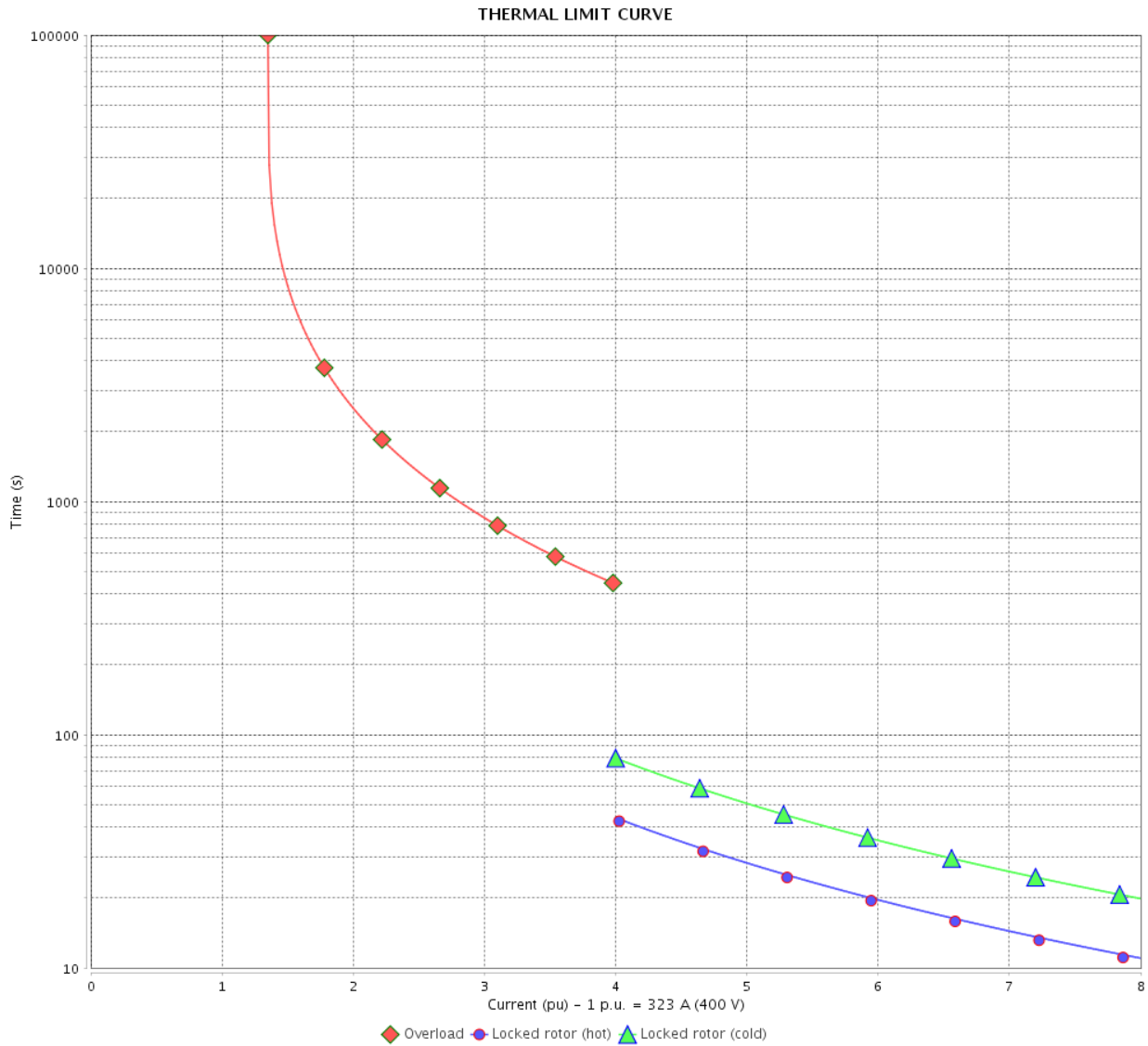
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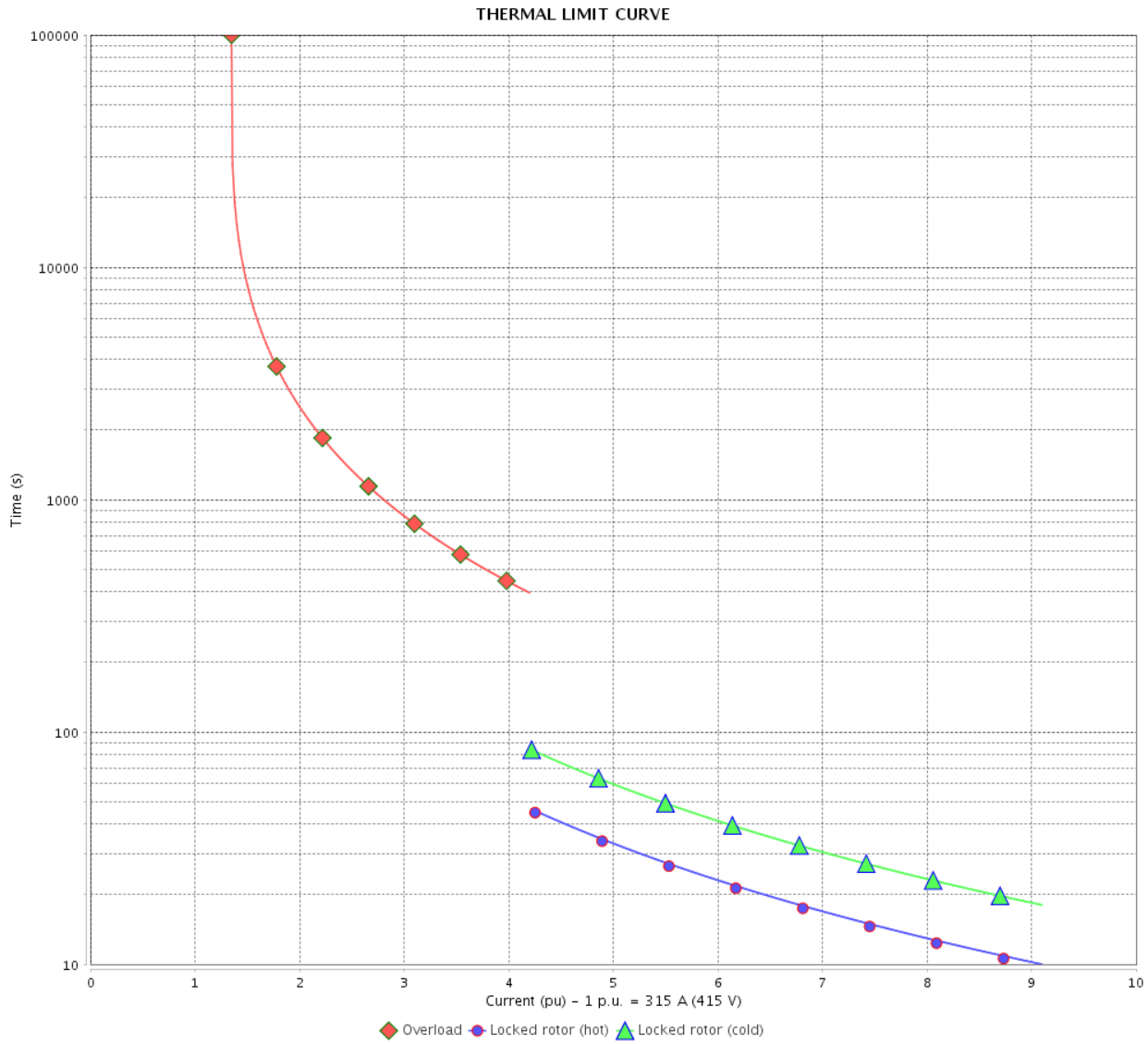
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Heating constant

Cooling constant

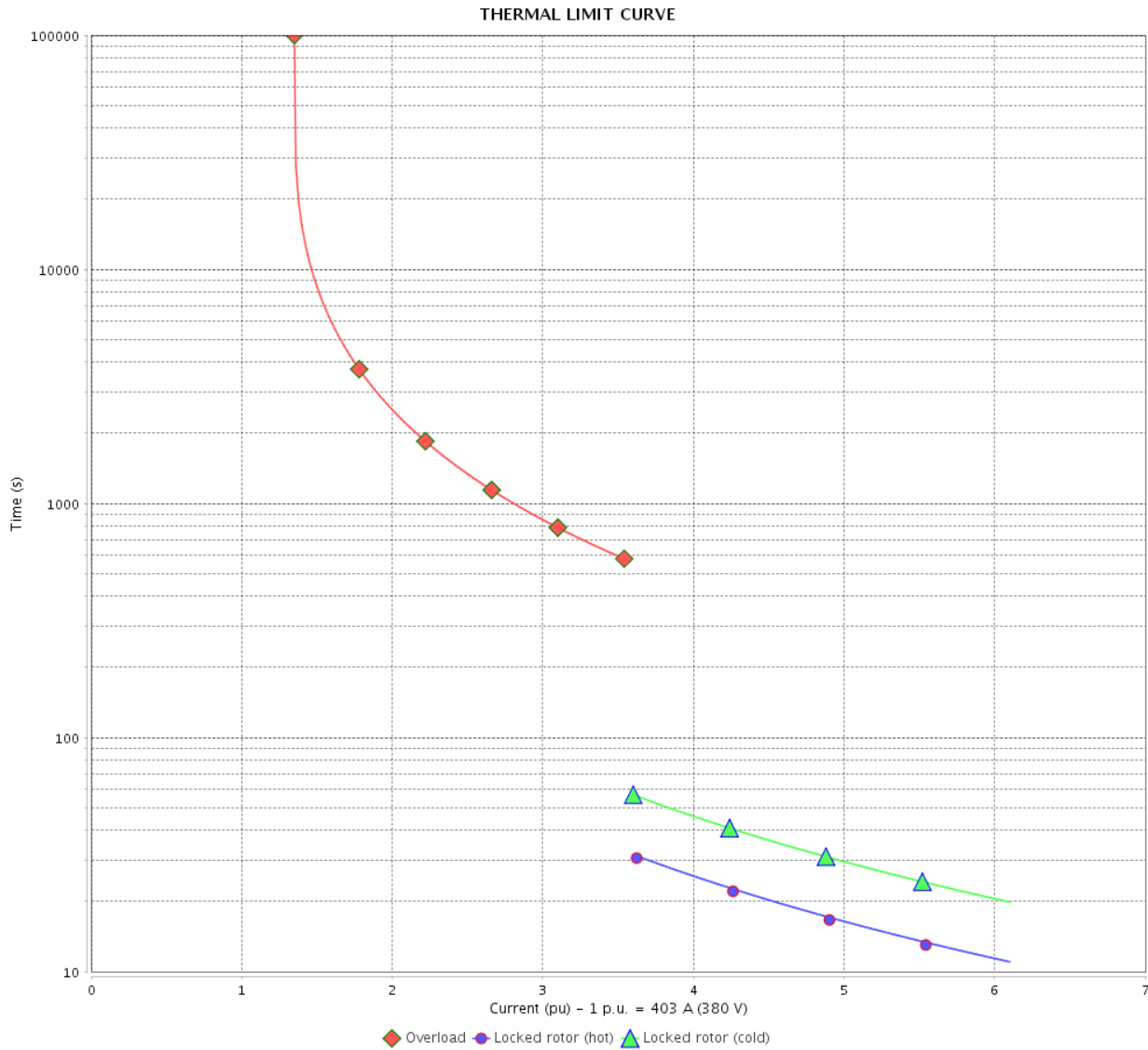
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	13/04/2022		25 / 37	

# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_



Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page		Revision
Checked by		26 / 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 : 13325233

Catalog # : 35018OT3G447/9TS-W40

Performance : 400 V 50 Hz 4P IE2

Rated current : 387 A  
LRC : 6.7  
Rated torque : 1060 ft.lb  
Locked rotor torque : 210 %  
Breakdown torque : 240 %  
Rated speed : 1480 rpm

Moment of inertia (J) : 66.1 sq.ft.lb  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.15  
Temperature rise : 80 K  
Design : B

Heating constant

Cooling constant

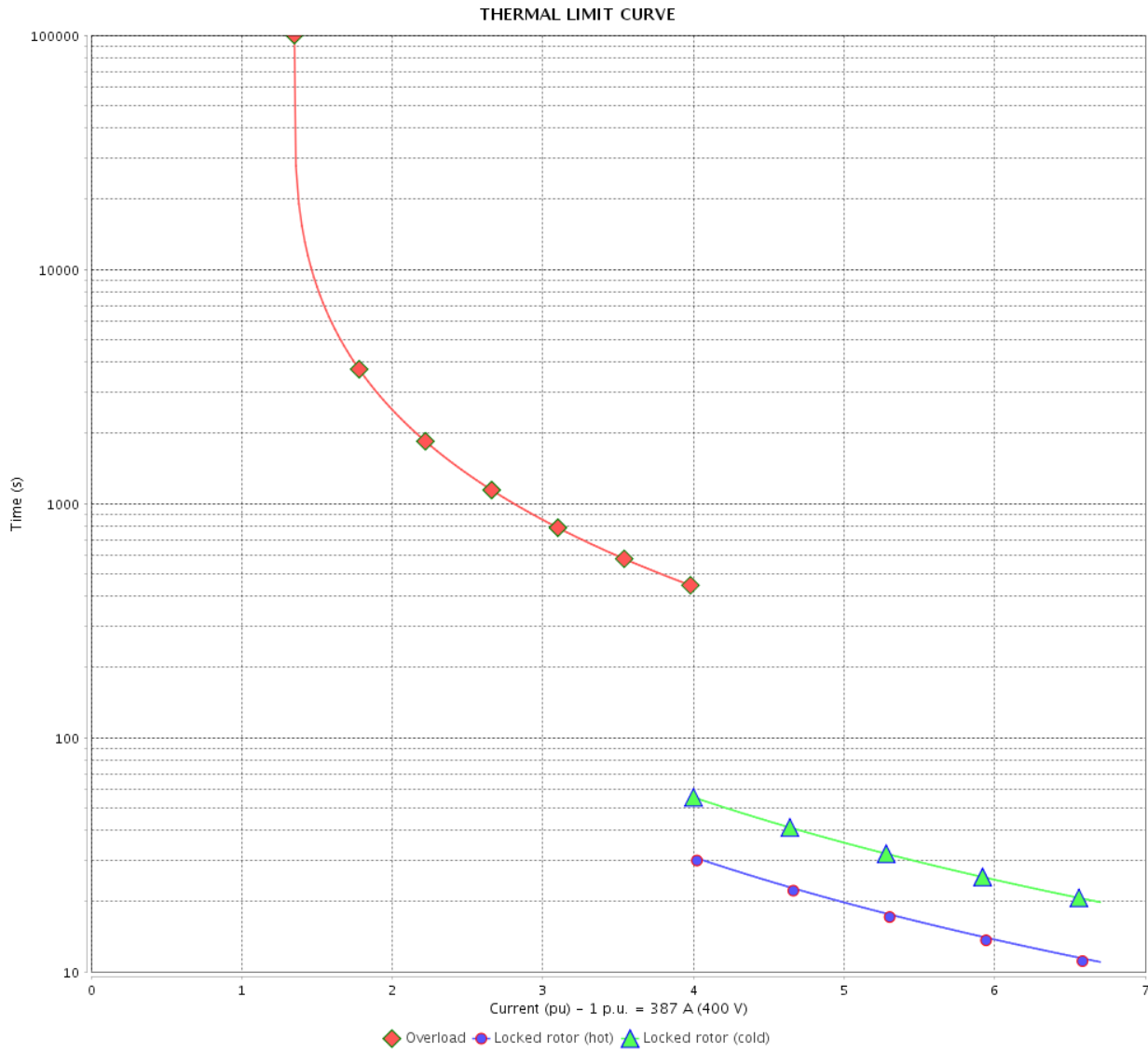
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	13/04/2022		27 / 37	

# 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 : 13325233  
 Catalog # : 35018OT3G447/9TS-W40

Performance : 415 V 50 Hz 4P IE2

Rated current : 377 A	Moment of inertia (J) : 66.1 sq.ft.lb
LRC : 7.6	Duty cycle : Cont.(S1)
Rated torque : 1060 ft.lb	Insulation class : F
Locked rotor torque : 229 %	Service factor : 1.15
Breakdown torque : 270 %	Temperature rise : 80 K
Rated speed : 1480 rpm	Design : B

Heating constant

Cooling constant

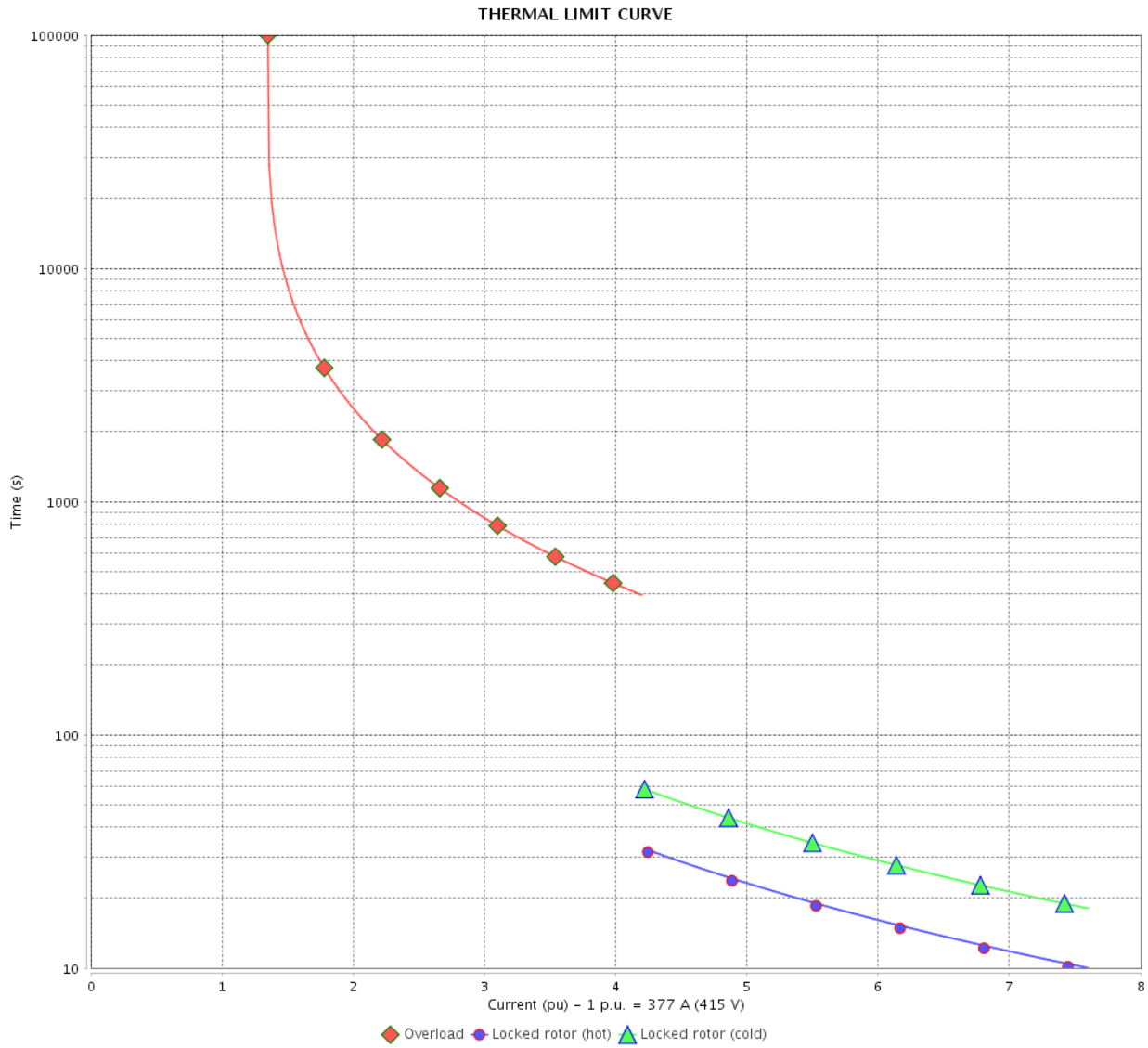
Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page	Revision
Checked by				
Date	13/04/2022			

# 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

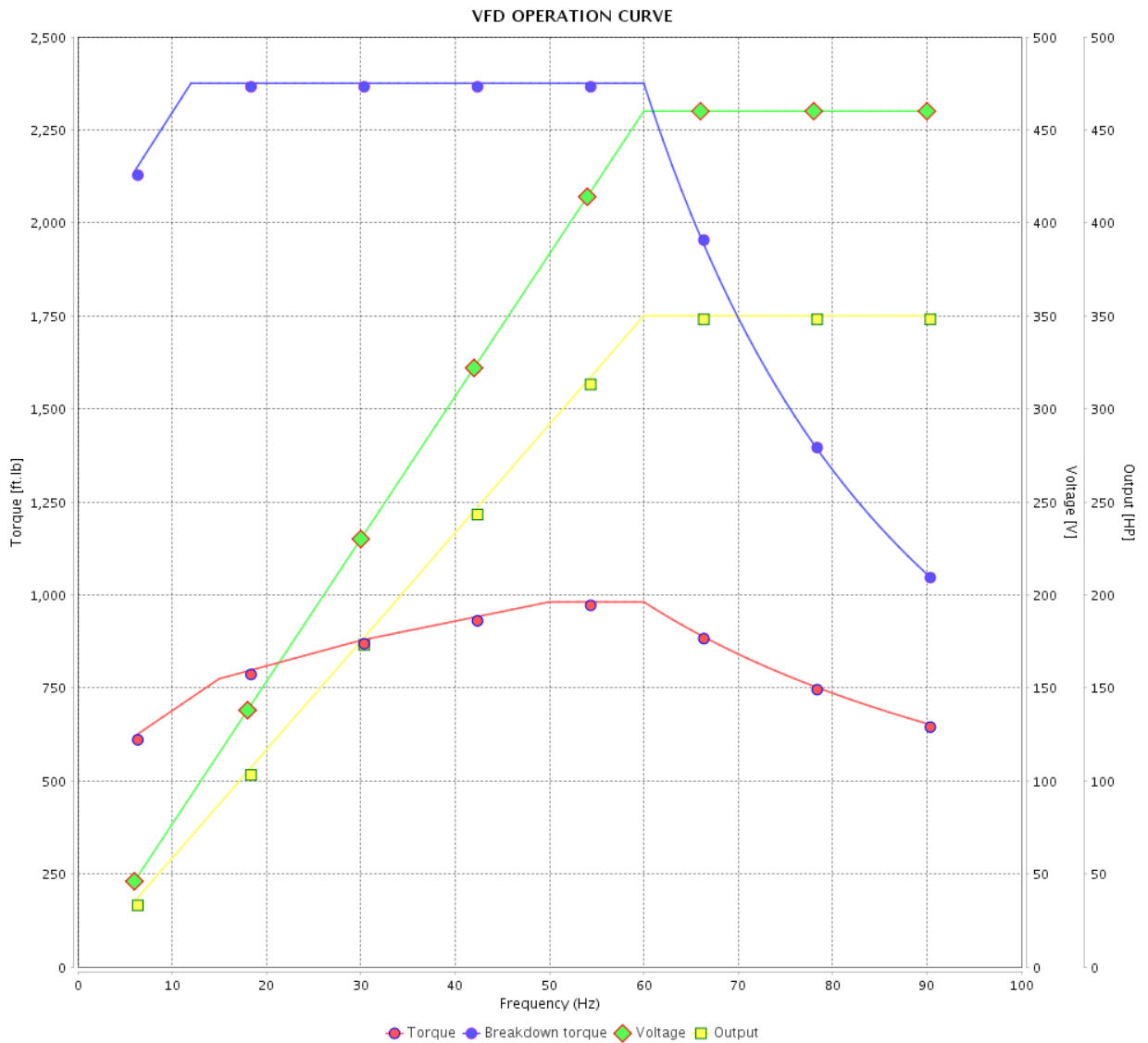


Customer :

Product line : W40 NEMA Premium Efficiency  
Three-Phase

Product code : 13325233

Catalog # : 35018OT3G447/9TS-W40



Performance : 460 V 60 Hz 4P

Rated current : 396 A  
LRC : 6.6  
Rated torque : 1030 ft.lb  
Locked rotor torque : 200 %  
Breakdown torque : 229 %  
Rated speed : 1780 rpm

Moment of inertia (J) : 66.1 sq.ft.lb  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.15  
Temperature rise : 80 K  
Design : B

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

# VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



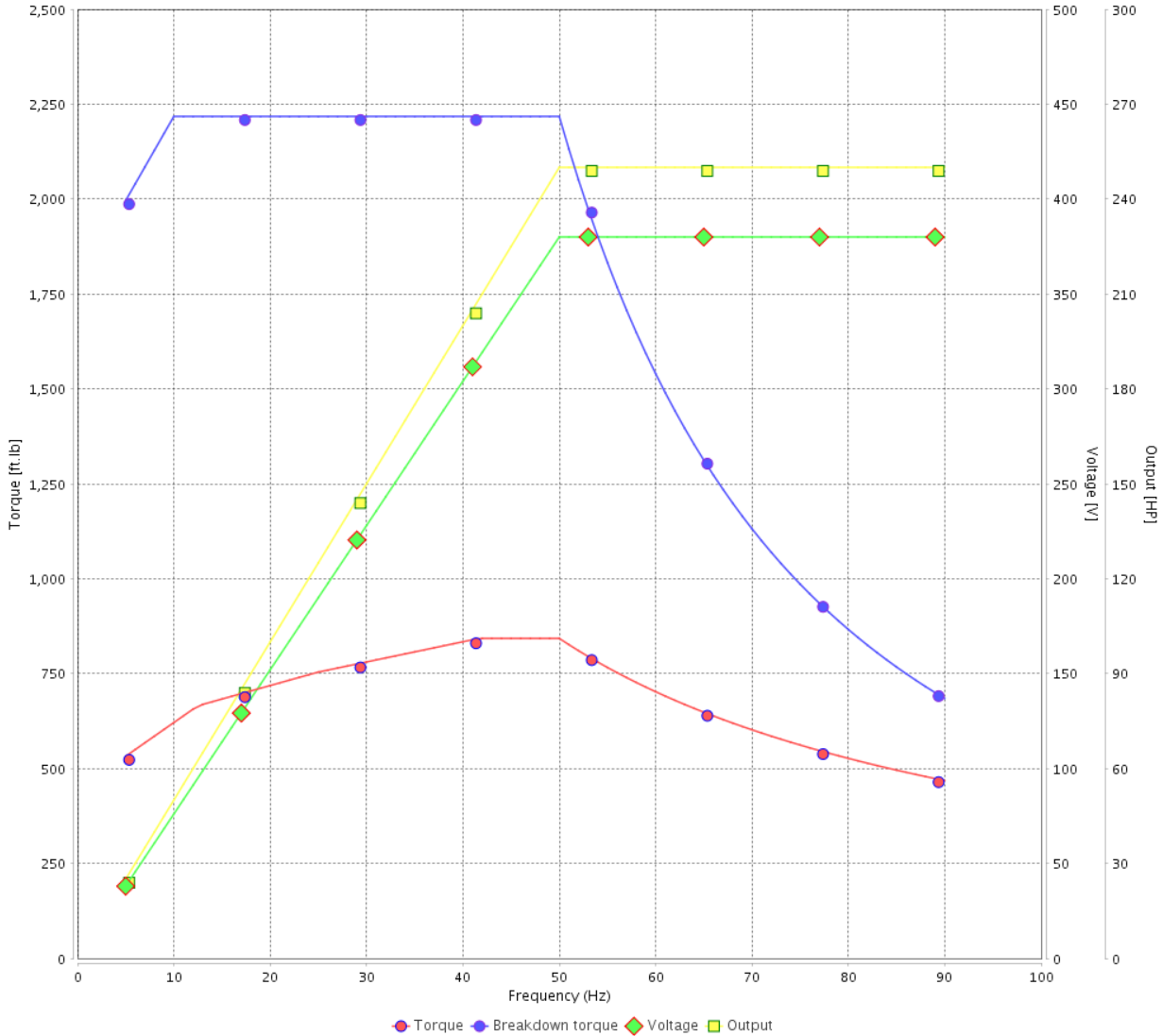
Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 13325233

Catalog # : 35018OT3G447/9TS-W40

VFD OPERATION CURVE



Performance : 380 V 50 Hz 4P IE3

Rated current : 337 A  
 LRC : 7.3  
 Rated torque : 887 ft.lb  
 Locked rotor torque : 220 %  
 Breakdown torque : 250 %  
 Rated speed : 1480 rpm

Moment of inertia (J) : 66.1 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

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

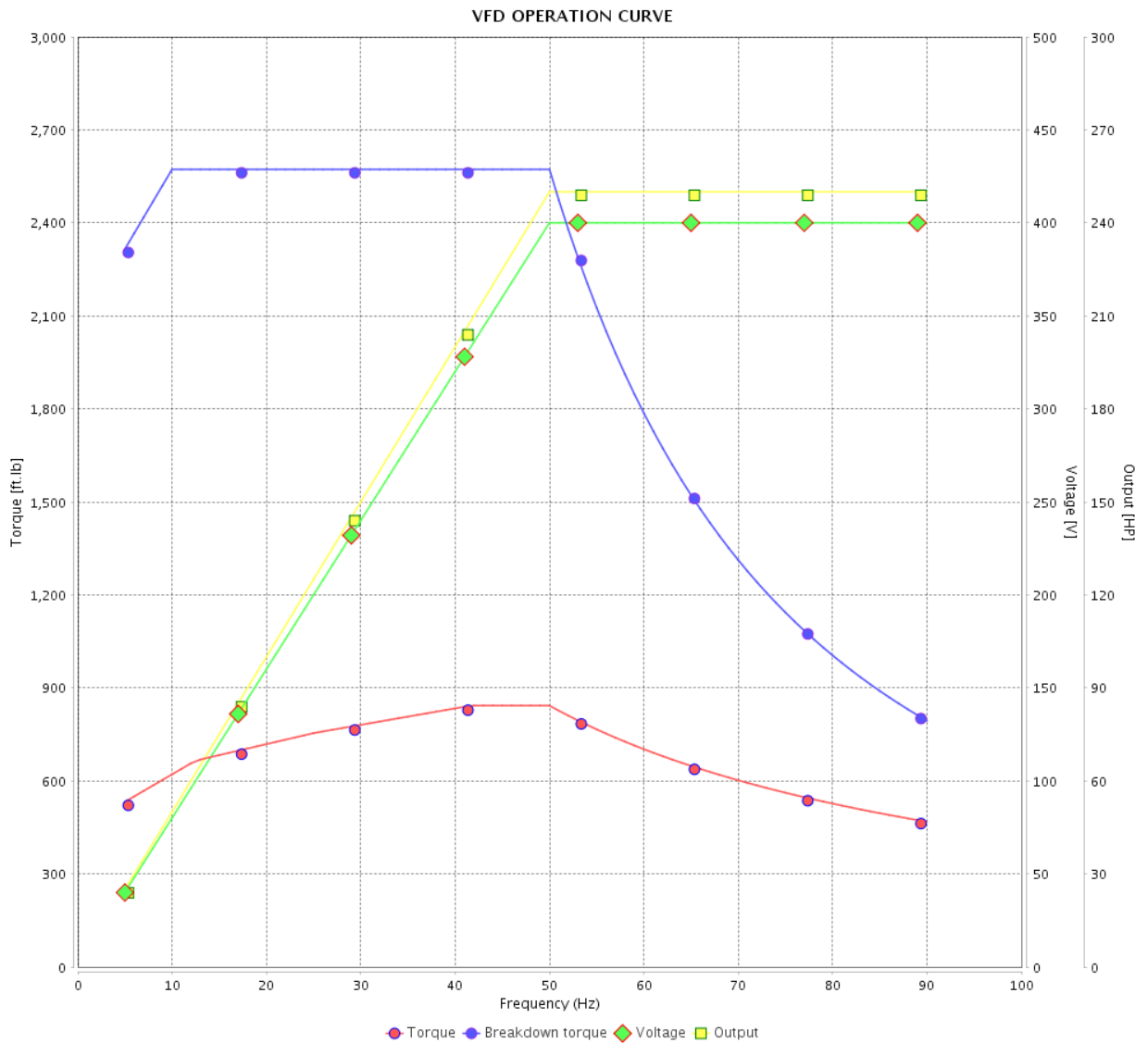


Customer :

Product line : W40 NEMA Premium Efficiency  
Three-Phase

Product code : 13325233

Catalog # : 35018OT3G447/9TS-W40



Performance : 400 V 50 Hz 4P IE3

Rated current : 323 A  
LRC : 8.0  
Rated torque : 887 ft.lb  
Locked rotor torque : 250 %  
Breakdown torque : 290 %  
Rated speed : 1480 rpm

Moment of inertia (J) : 66.1 sq.ft.lb  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.15  
Temperature rise : 80 K  
Design : B

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

# VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

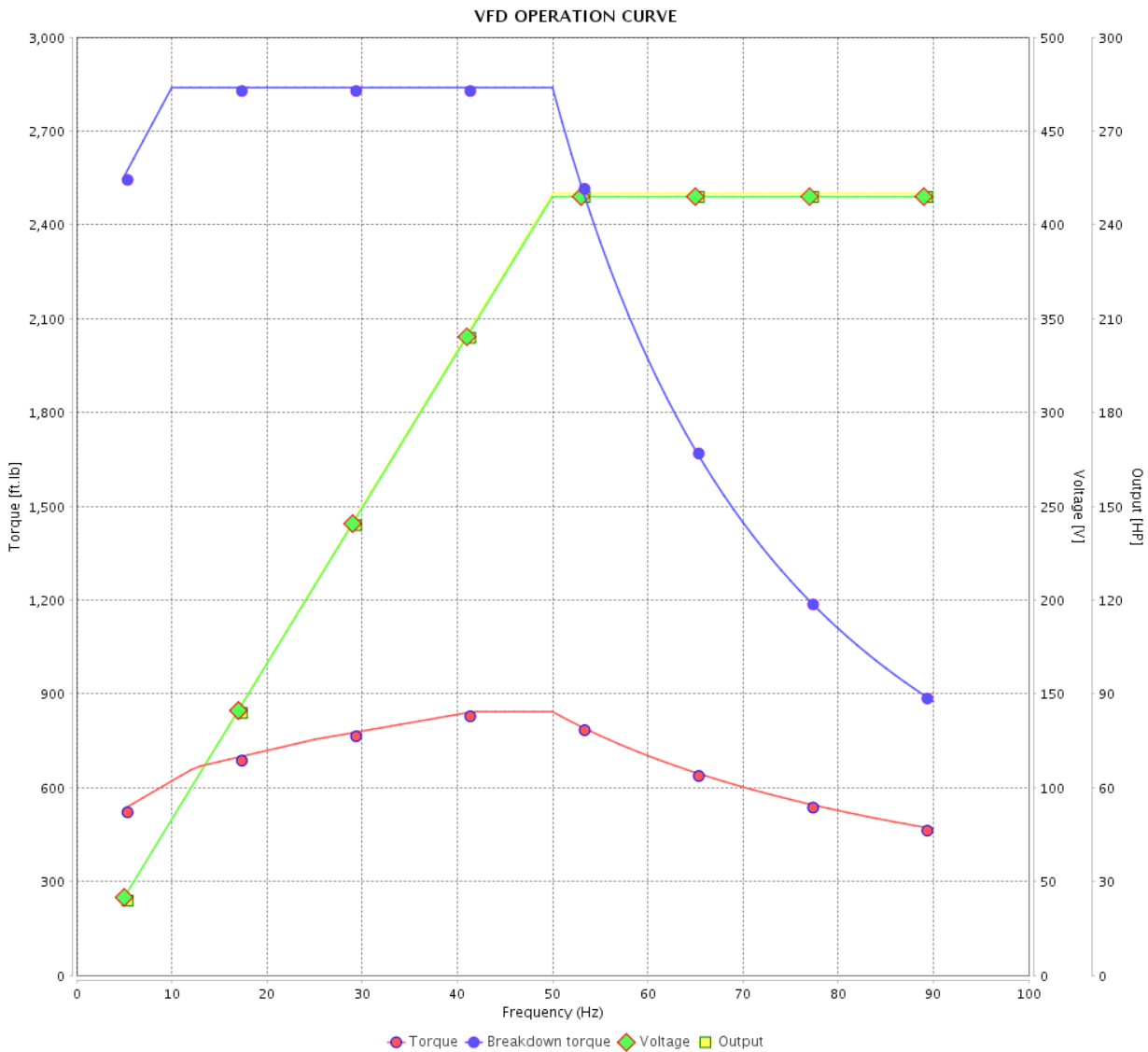


Customer :

Product line : W40 NEMA Premium Efficiency  
Three-Phase

Product code : 13325233

Catalog # : 35018OT3G447/9TS-W40



Performance : 415 V 50 Hz 4P IE3

Rated current : 315 A  
LRC : 9.1  
Rated torque : 887 ft.lb  
Locked rotor torque : 280 %  
Breakdown torque : 320 %  
Rated speed : 1480 rpm

Moment of inertia (J) : 66.1 sq.ft.lb  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.15  
Temperature rise : 80 K  
Design : B

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 34 / 37	Revision
Checked by				
Date	13/04/2022			

# VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

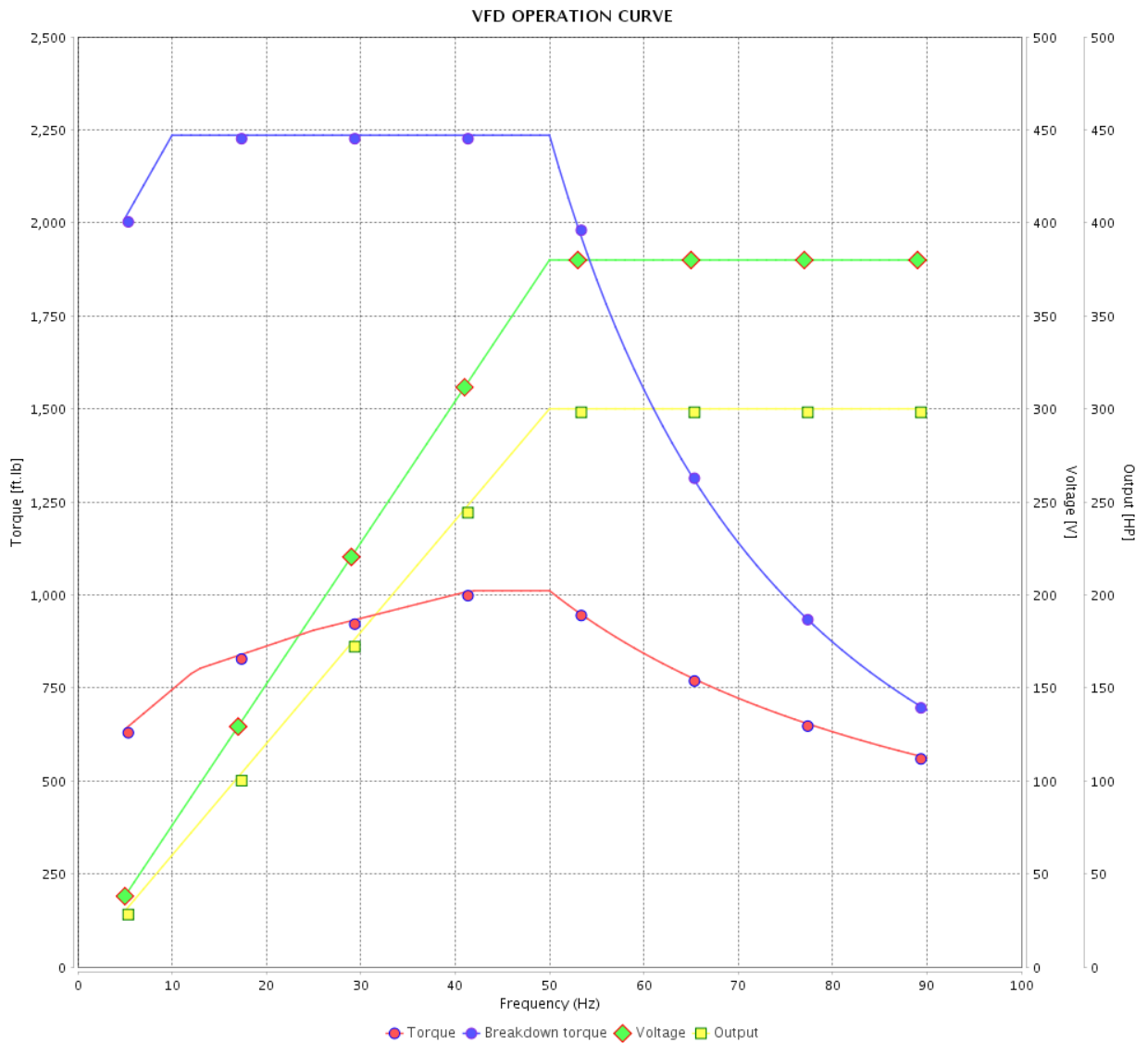


Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 13325233

Catalog # : 35018OT3G447/9TS-W40



Performance : 380 V 50 Hz 4P IE2

Rated current : 403 A  
 LRC : 6.1  
 Rated torque : 1060 ft.lb  
 Locked rotor torque : 180 %  
 Breakdown torque : 210 %  
 Rated speed : 1480 rpm

Moment of inertia (J) : 66.1 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

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

# VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



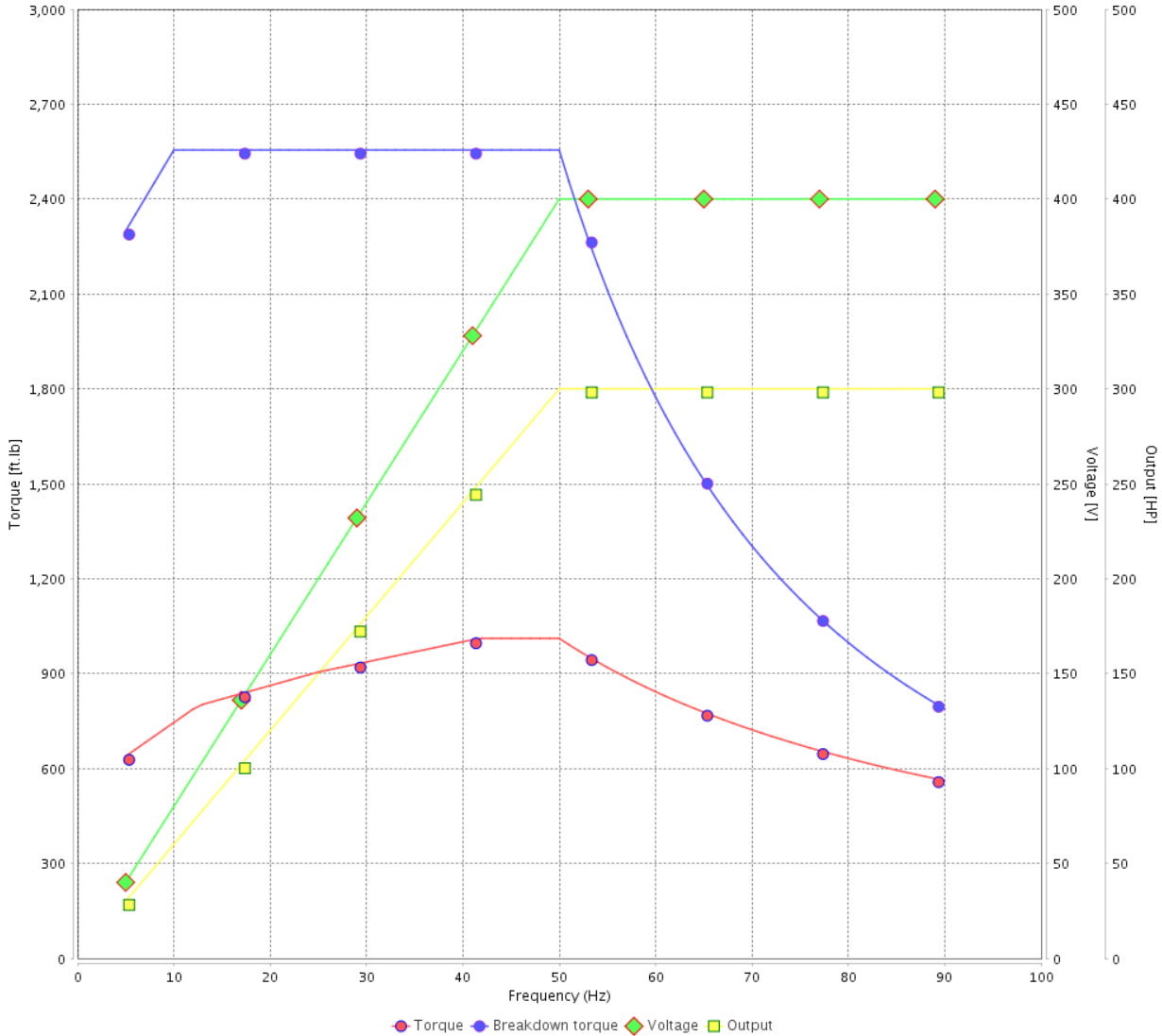
Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 13325233

Catalog # : 35018OT3G447/9TS-W40

VFD OPERATION CURVE



Performance : 400 V 50 Hz 4P IE2

Rated current : 387 A  
 LRC : 6.7  
 Rated torque : 1060 ft.lb  
 Locked rotor torque : 210 %  
 Breakdown torque : 240 %  
 Rated speed : 1480 rpm

Moment of inertia (J) : 66.1 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

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

# VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

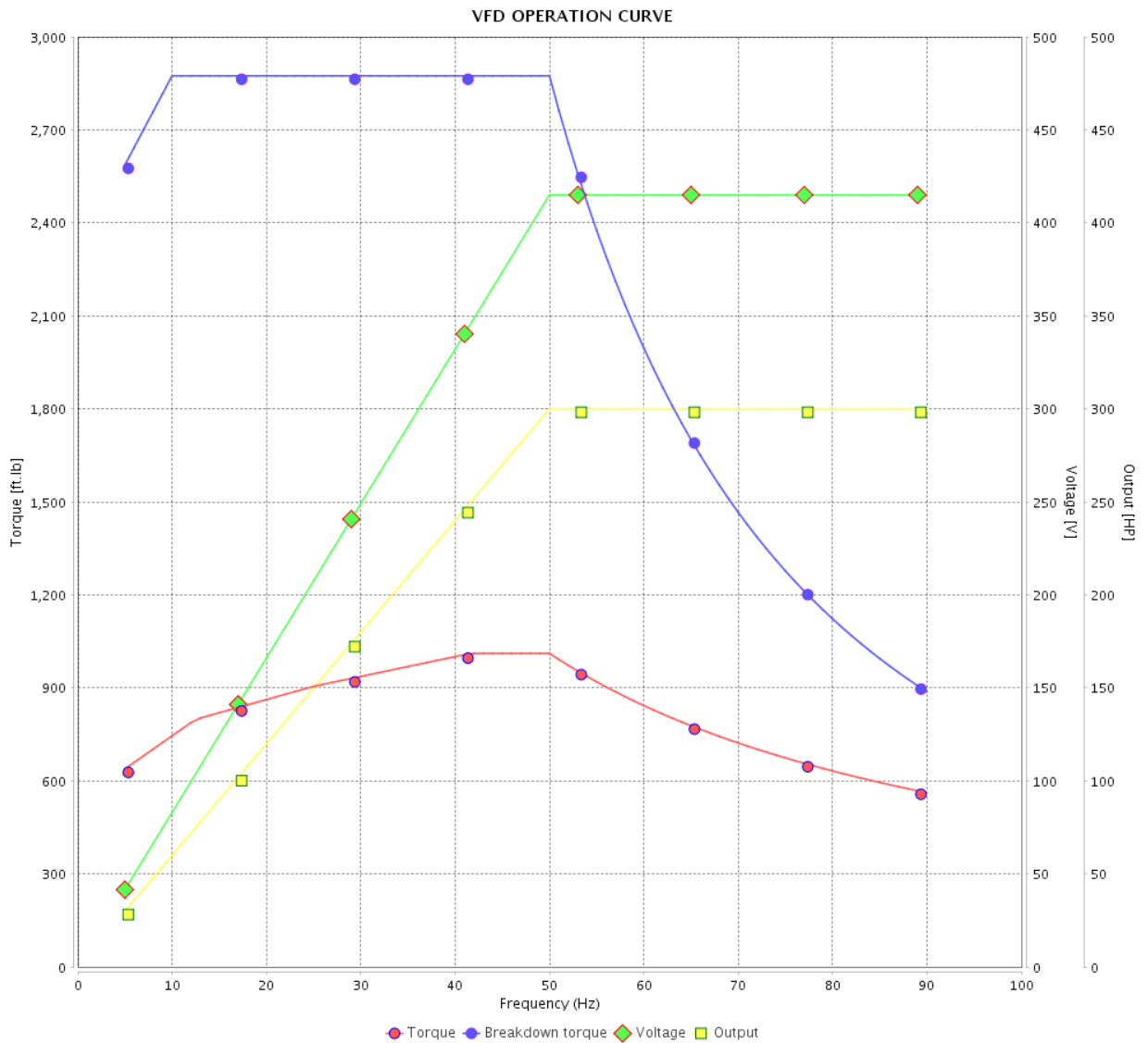


Customer :

Product line : W40 NEMA Premium Efficiency  
Three-Phase

Product code : 13325233

Catalog # : 35018OT3G447/9TS-W40



Performance : 415 V 50 Hz 4P IE2

Rated current : 377 A  
LRC : 7.6  
Rated torque : 1060 ft.lb  
Locked rotor torque : 229 %  
Breakdown torque : 270 %  
Rated speed : 1480 rpm

Moment of inertia (J) : 66.1 sq.ft.lb  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.15  
Temperature rise : 80 K  
Design : B

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

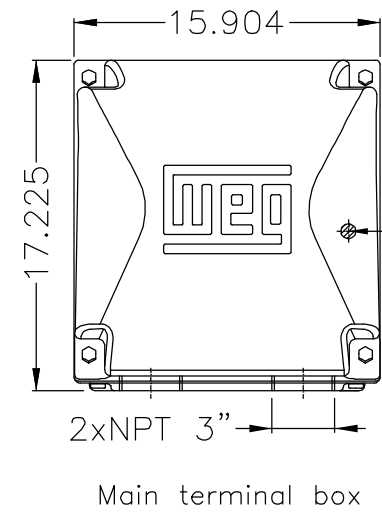
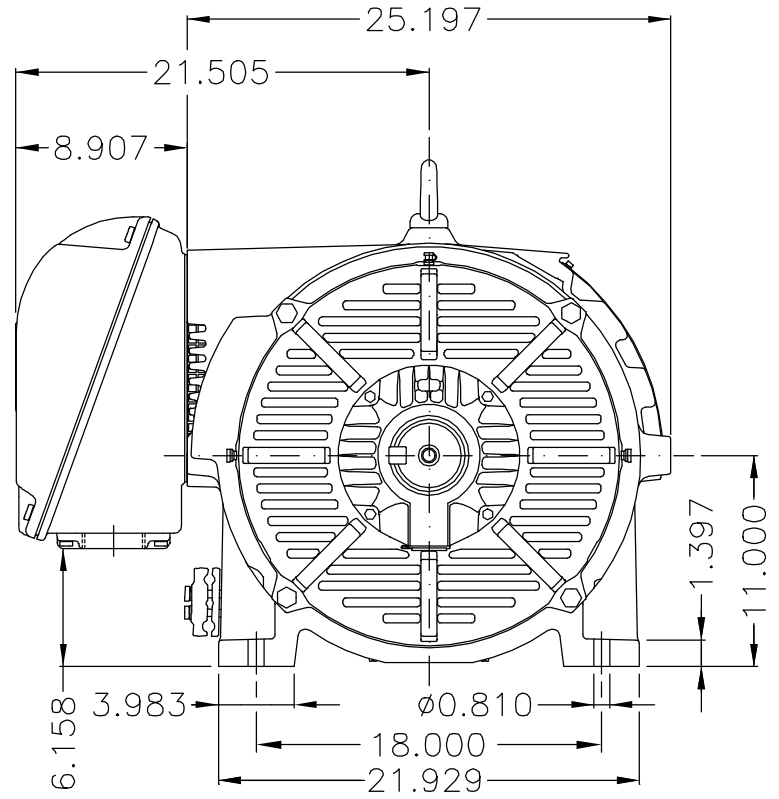
EIXO/SHAFT	
PADRÃO/STANDARD	
OPCIONAL/OPTIONAL	
ESPECIAL/SPECIAL	X

Dimensões em polegada  
Dimensions in inches

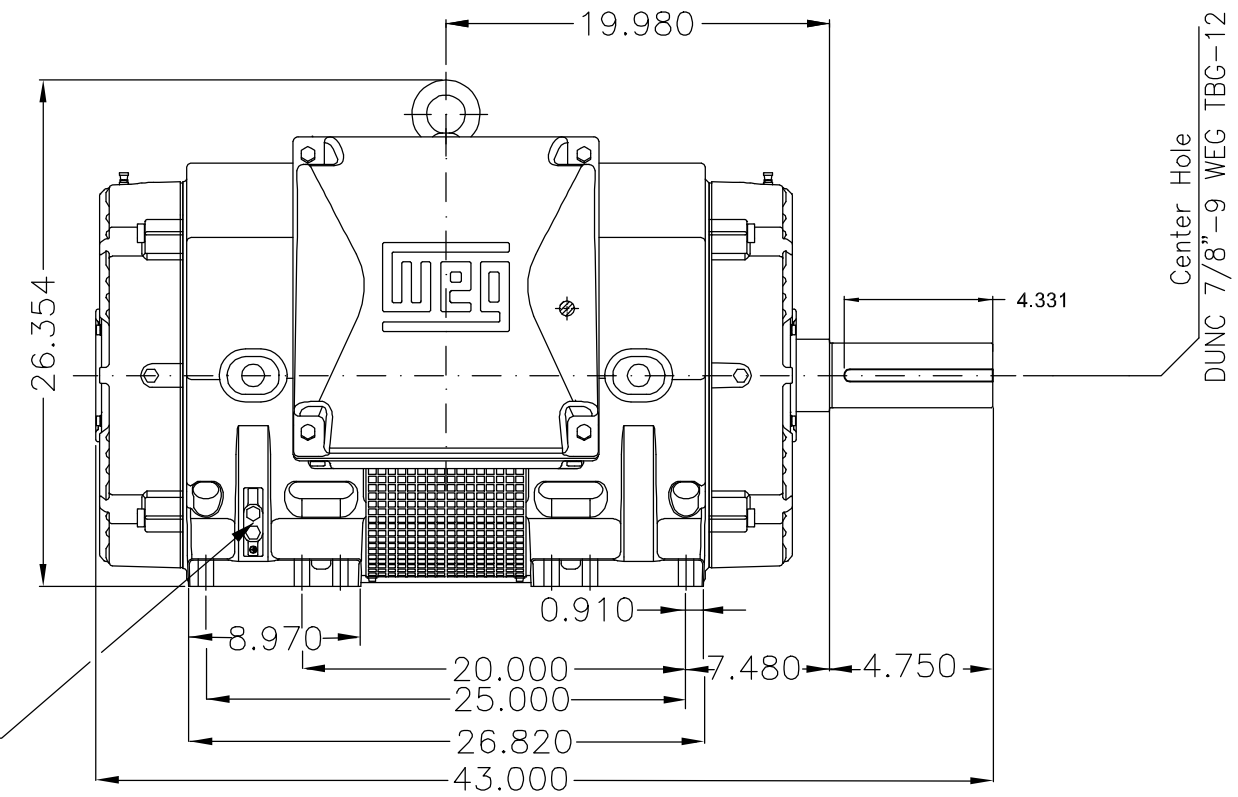
**CERTIFIED WEG MOTORES**  
Certified document.  
Not subject to changes.

THIS IS AN UPDATED REVISION, THE PREVIOUS ONE MUST BE DISREGARDED.

A  
B  
C  
D  
E

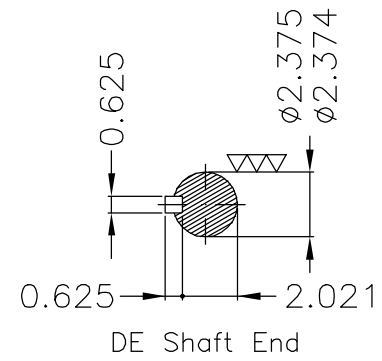


Grounding for leads 35–120mm<sup>2</sup>



Center Hole  
DUNC 7/8" - 9 WEG TBC-12

Grounding for leads 25–185mm<sup>2</sup>



Rolamento dianteiro de esferas 6314 C3 / 6314 C3 DE ball bearing						
Plano de pintura 203A / Painting plan 203A						
Forma construtiva NEMA F-1 / Mounting NEMA F-1						
Forma construtiva B3D / Mounting B3R(D)						
<b>WEG ELECTRIC CORPORATION - WEC</b>						
					SCALE	
500001549643		ALTERADO CONFORME CLAIM 415219992	RICLAV	DALTONR	DALTONR	06.03.2019 04
500001300923		ALT. CONFORME NOTA 414627713	AFILHO	MENSOR	MENSOR	24.04.2017 03
ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE VER
EXECUTED	NSCHMIDT	THREE PHASE W40 MOTOR NEMA PREMIUM EFF FRAME 447/9TS IP23			10003720132	
CHECKED	ADRIANAP				000   04	
RELEASED	ADRIANAP					
REL DT	27.07.2015	WMO	JARAGUA DO SUL	ENGENHARIA DE PRODUTO	SHEET	1 /

350 HP 04 Poles 60Hz 413944382/0-MEC.

UNCONTROLLED COPY

RELEASED

ZME A3

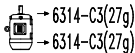
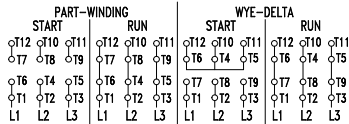
MODEL 350180T3G447/9TS-W40  
MADE IN BRAZIL  
13325233



MOD.T01#FOXON



PH 3	FR 447/9TS	HP(kW) 350(260)	Hz 60
V 460	A 396	IP23	
NEMA NOM EFF	95.8 %	RPM 1780	
ENCL ODP	DUTY CONT.	INS. CL. F $\Delta T$ 80 K	
PF 0.86	DES B	CODE G	AMB. 40°C
SF 1.15	SFA 455	ALT 1000 m.a.s.l.	



MOBIL POLYREX EM  
20000 h

2077 Lbs