

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer								
Product line	: W40 NEMA Premium Efficiency Three-Phase	Product code :	13384870					
		Catalog # :	40018OT3G447/9TS-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	: 2291 lb					
Protection degree	: IP23	Moment of inertia (J)	: 77.6 sq.ft.lb					
Design	: B							
Output [HP]	400	300	300	300	350	350	350	
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]	452	400	385	375	479	457	441	
L. R. Amperes [A]	3074	2800	3003	3375	2874	3062	3440	
LRC [A]	6.8x(Code G)	7.0x(Code G)	7.8x(Code H)	9.0x(Code K)	6.0x(Code F)	6.7x(Code G)	7.8x(Code H)	
No load current [A]	140	138	149	159	138	149	159	
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]	1180	1060	1060	1060	1240	1240	1240	
Locked rotor torque [%]	229	229	270	290	200	229	250	
Breakdown torque [%]	229	250	280	300	210	240	260	
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	105 K	80 K	80 K	
Locked rotor time	16s (cold) 9s (hot)	16s (cold) 9s (hot)	14s (cold) 8s (hot)	14s (cold) 8s (hot)	16s (cold) 9s (hot)	14s (cold) 8s (hot)	14s (cold) 8s (hot)	
Noise level ²	77.0 dB(A)							
Efficiency (%)	25%	95.7	93.4	93.5	93.5	94.7	94.5	94.5
	50%	95.8	94.5	94.4	94.4	94.8	95.0	95.0
	75%	95.8	94.9	95.1	95.1	94.8	95.0	95.0
	100%	95.8	96.0	96.0	96.0	94.8	95.4	95.4
Power Factor	25%	0.53	0.49	0.46	0.43	0.54	0.51	0.48
	50%	0.78	0.74	0.71	0.68	0.79	0.76	0.74
	75%	0.85	0.84	0.82	0.81	0.85	0.84	0.83
	100%	0.87	0.87	0.86	0.85	0.87	0.86	0.86
Bearing type	: Drive end 6314 C3	: Non drive end 6314 C3	Foundation loads					
Sealing	: Without	: Without	Max. traction : 7463 lb					
	: Bearing Seal	: Bearing Seal	Max. compression : 9753 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



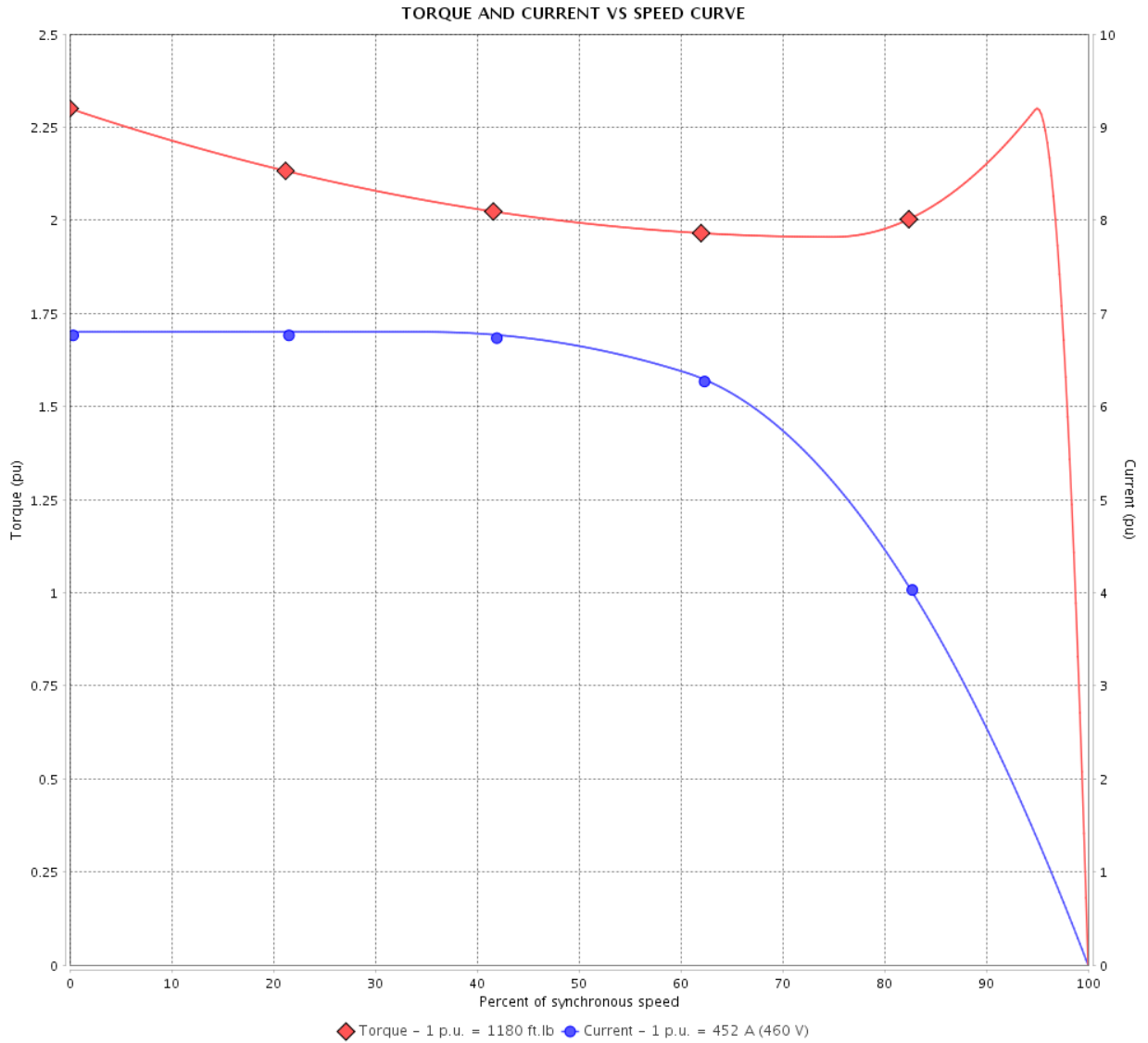
Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W40 NEMA Premium Efficiency
Three-Phase

Product code : 13384870

Catalog # : 40018OT3G447/9TS-W40



Performance : 460 V 60 Hz 4P

Rated current	: 452 A	Moment of inertia (J)	: 77.6 sq.ft.lb
LRC	: 6.8	Duty cycle	: Cont.(S1)
Rated torque	: 1180 ft.lb	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.15
Breakdown torque	: 229 %	Temperature rise	: 80 K
Rated speed	: 1780 rpm	Design	: B

Locked rotor time : 16s (cold) 9s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

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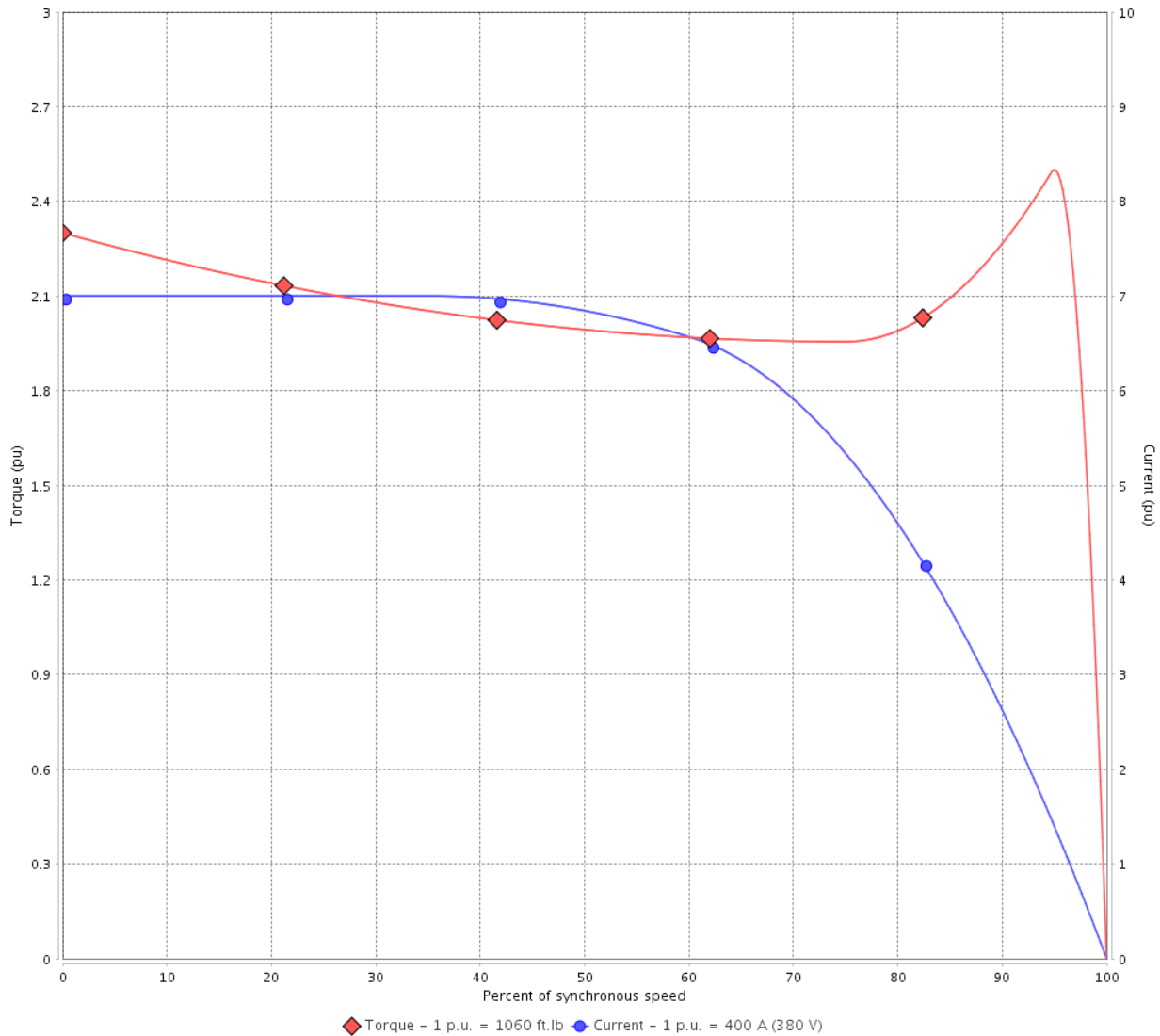
Customer :

Product line : W40 NEMA Premium Efficiency
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Product code : 13384870

Catalog # : 40018OT3G447/9TS-W40

TORQUE AND CURRENT VS SPEED CURVE



Performance : 380 V 50 Hz 4P IE3

Rated current	: 400 A	Moment of inertia (J)	: 77.6 sq.ft.lb
LRC	: 7.0	Duty cycle	: Cont.(S1)
Rated torque	: 1060 ft.lb	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.15
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 1480 rpm	Design	: B

Locked rotor time : 16s (cold) 9s (hot)

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TORQUE AND CURRENT VS SPEED CURVE



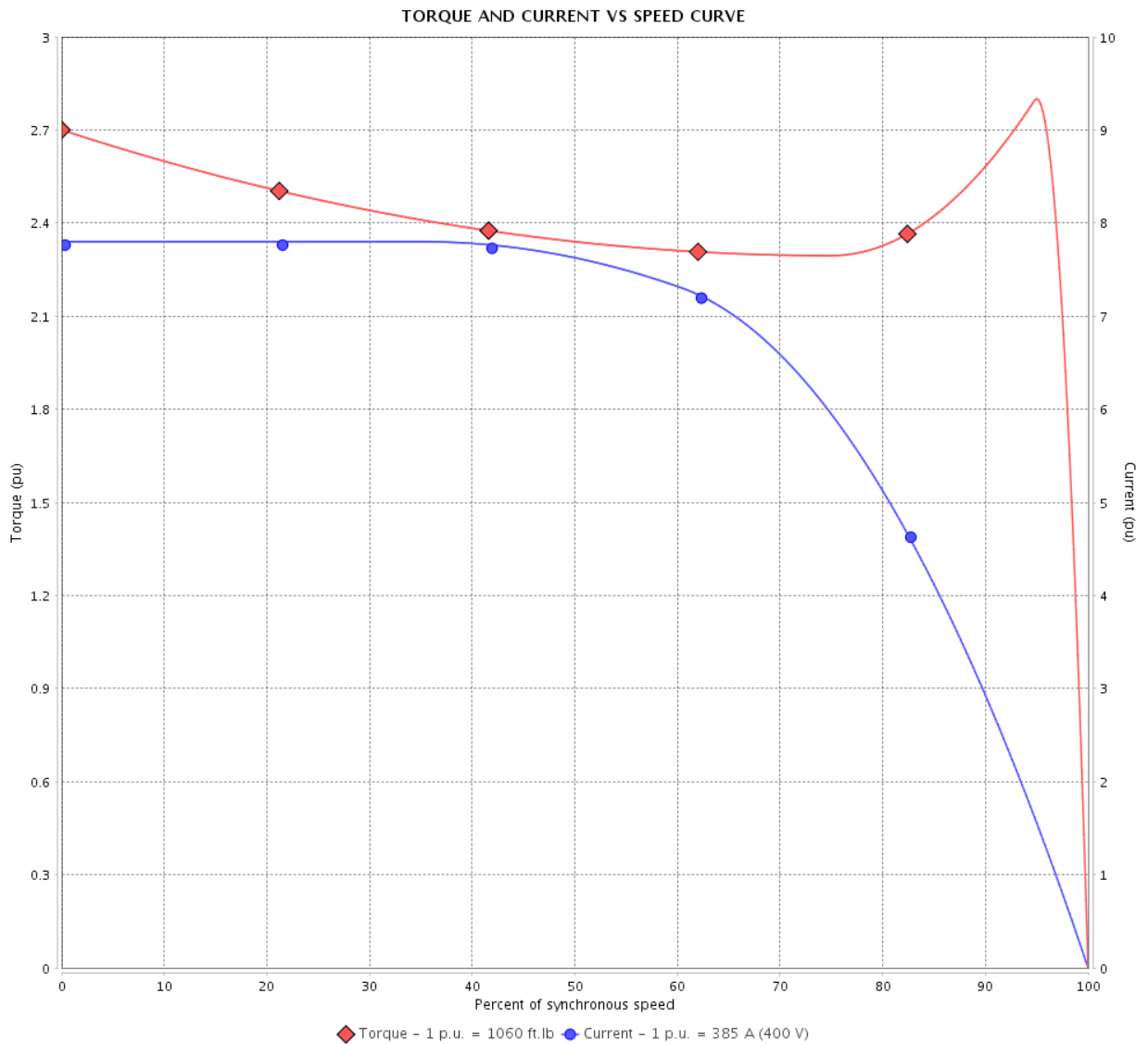
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Customer :

Product line : W40 NEMA Premium Efficiency
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Product code : 13384870

Catalog # : 40018OT3G447/9TS-W40



Performance : 400 V 50 Hz 4P IE3

Rated current	: 385 A	Moment of inertia (J)	: 77.6 sq.ft.lb
LRC	: 7.8	Duty cycle	: Cont.(S1)
Rated torque	: 1060 ft.lb	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.15
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 1480 rpm	Design	: B

Locked rotor time : 14s (cold) 8s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

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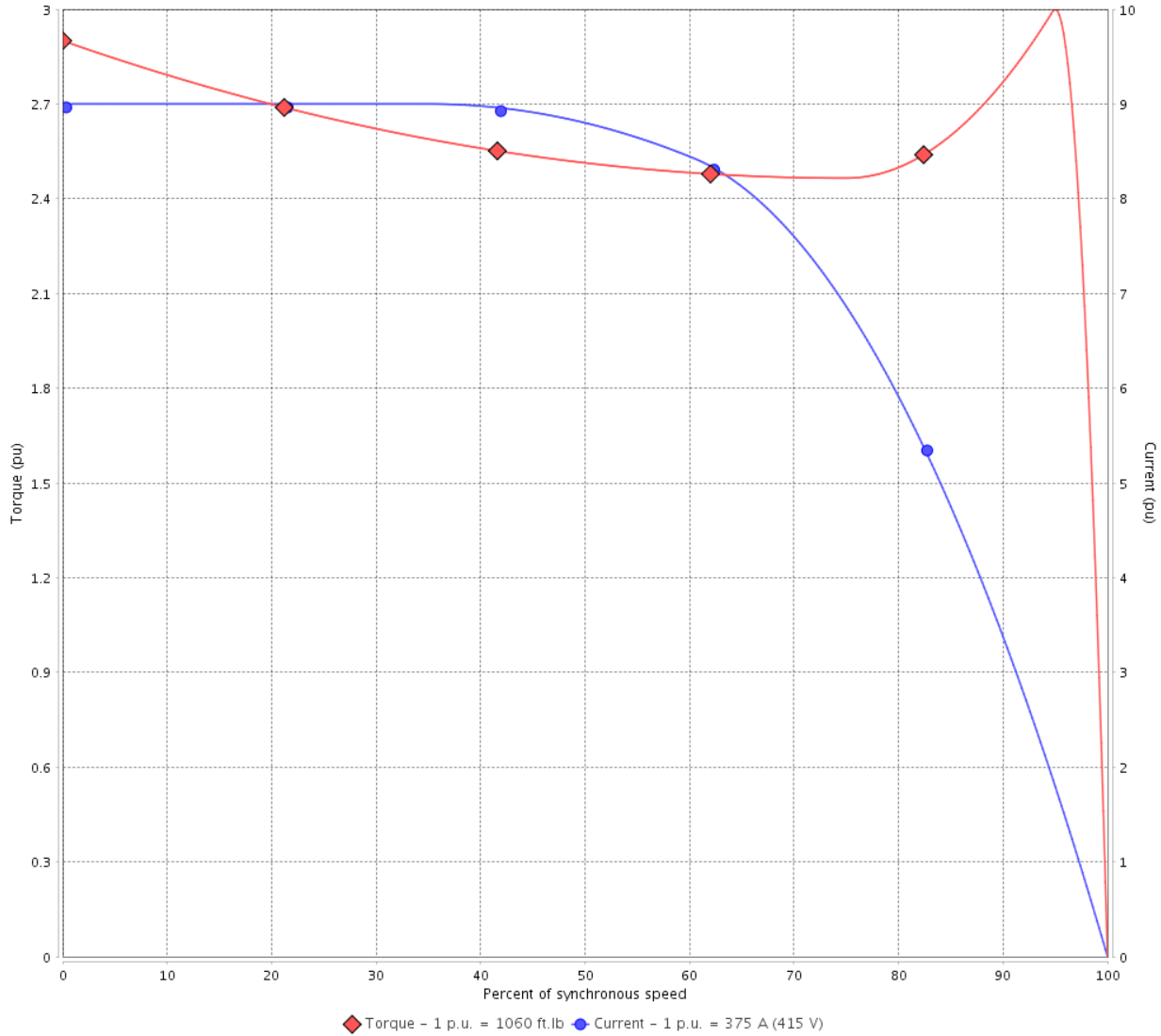
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TORQUE AND CURRENT VS SPEED CURVE



Performance : 415 V 50 Hz 4P IE3

Rated current	: 375 A	Moment of inertia (J)	: 77.6 sq.ft.lb
LRC	: 9.0	Duty cycle	: Cont.(S1)
Rated torque	: 1060 ft.lb	Insulation class	: F
Locked rotor torque	: 290 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1480 rpm	Design	: B

Locked rotor time : 14s (cold) 8s (hot)

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TORQUE AND CURRENT VS SPEED CURVE



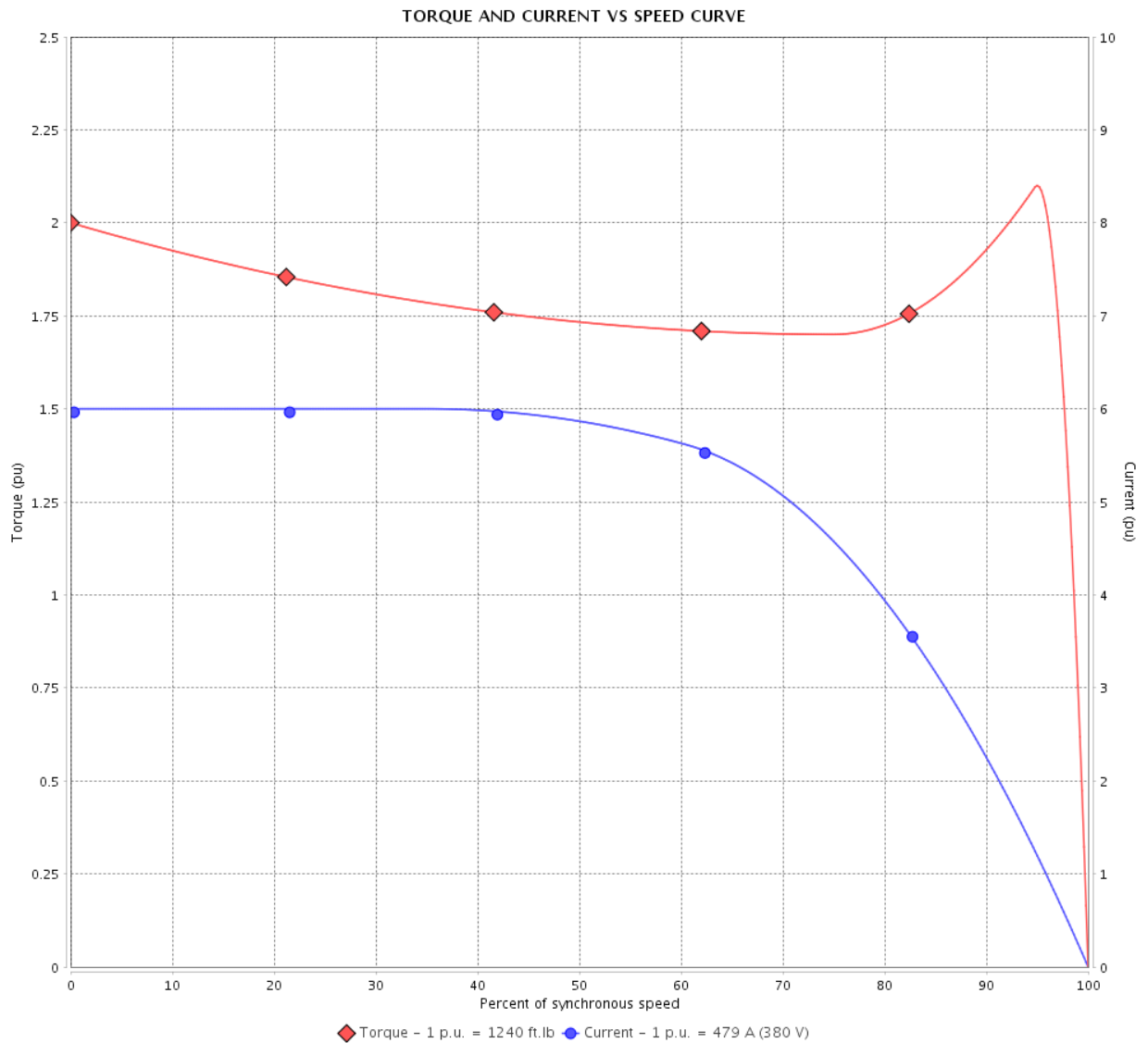
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Customer :

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Product code : 13384870

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Performance : 380 V 50 Hz 4P IE1

Rated current	: 479 A	Moment of inertia (J)	: 77.6 sq.ft.lb
LRC	: 6.0	Duty cycle	: Cont.(S1)
Rated torque	: 1240 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 210 %	Temperature rise	: 105 K
Rated speed	: 1480 rpm	Design	: B

Locked rotor time : 16s (cold) 9s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

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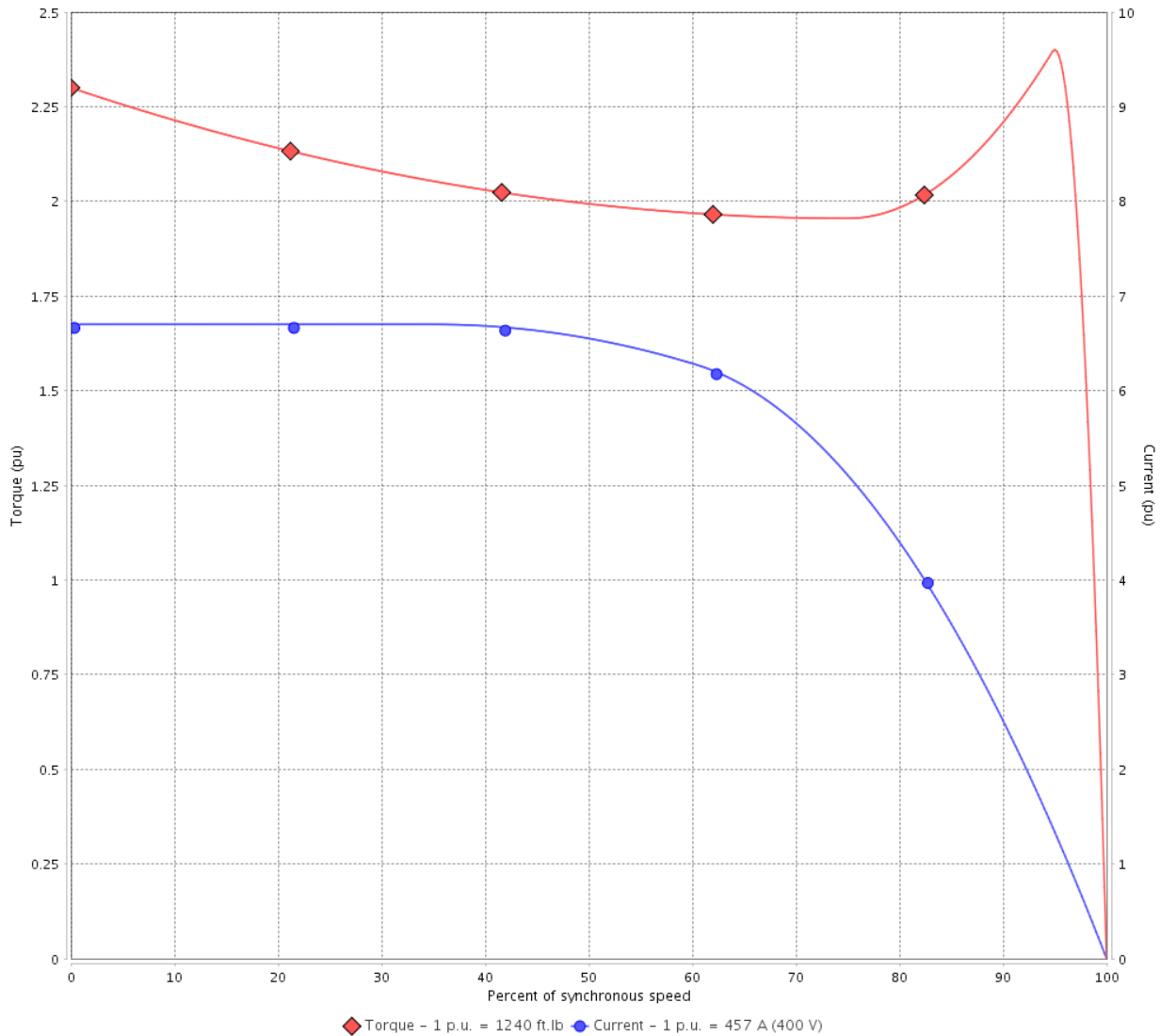
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Product code : 13384870

Catalog # : 40018OT3G447/9TS-W40

TORQUE AND CURRENT VS SPEED CURVE



Performance : 400 V 50 Hz 4P IE2

Rated current	: 457 A	Moment of inertia (J)	: 77.6 sq.ft.lb
LRC	: 6.7	Duty cycle	: Cont.(S1)
Rated torque	: 1240 ft.lb	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.15
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 1480 rpm	Design	: B

Locked rotor time : 14s (cold) 8s (hot)

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TORQUE AND CURRENT VS SPEED CURVE



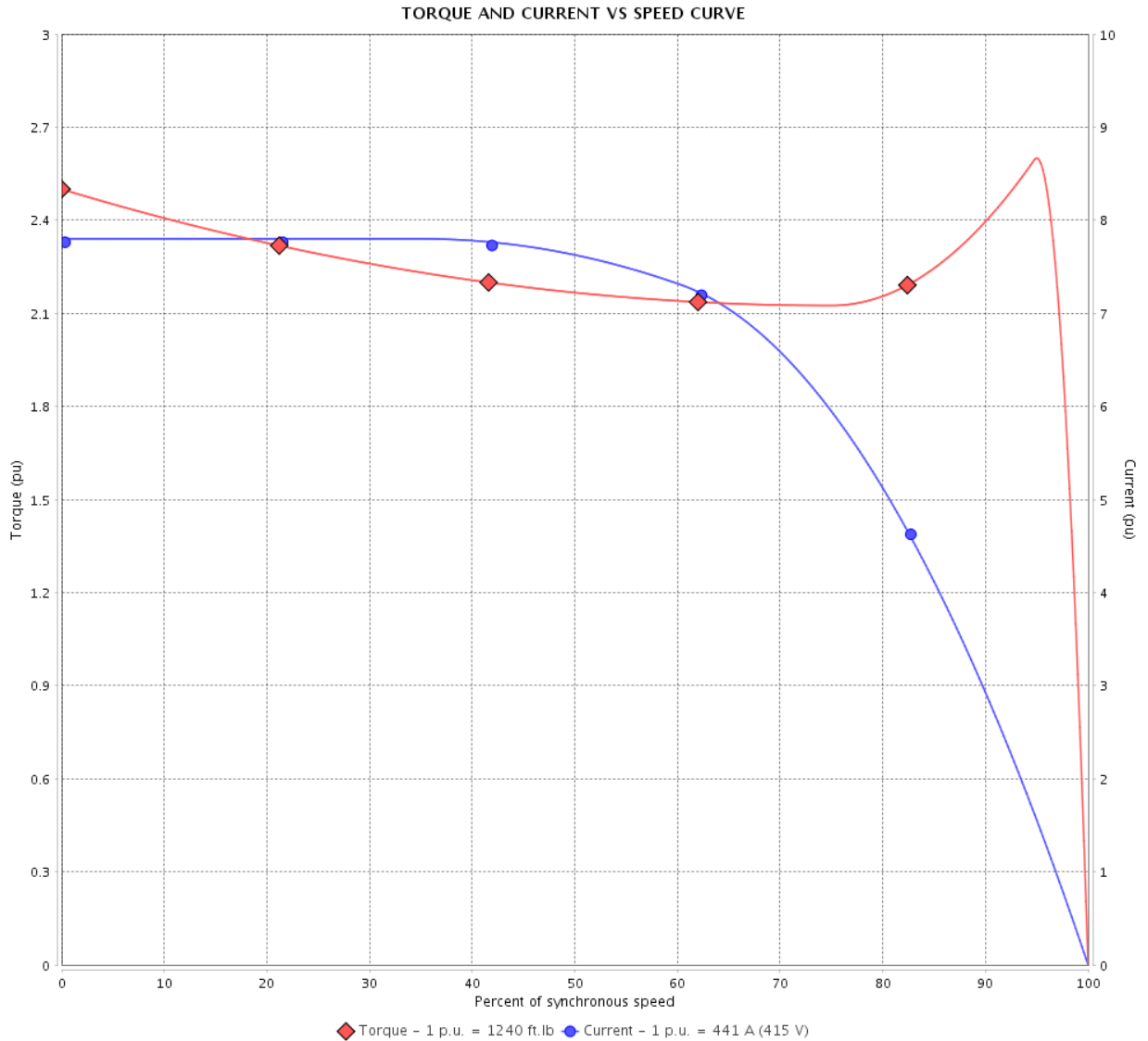
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Customer :

Product line : W40 NEMA Premium Efficiency
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Catalog # : 40018OT3G447/9TS-W40



Performance : 415 V 50 Hz 4P IE2

Rated current	: 441 A	Moment of inertia (J)	: 77.6 sq.ft.lb
LRC	: 7.8	Duty cycle	: Cont.(S1)
Rated torque	: 1240 ft.lb	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.15
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1480 rpm	Design	: B

Locked rotor time : 14s (cold) 8s (hot)

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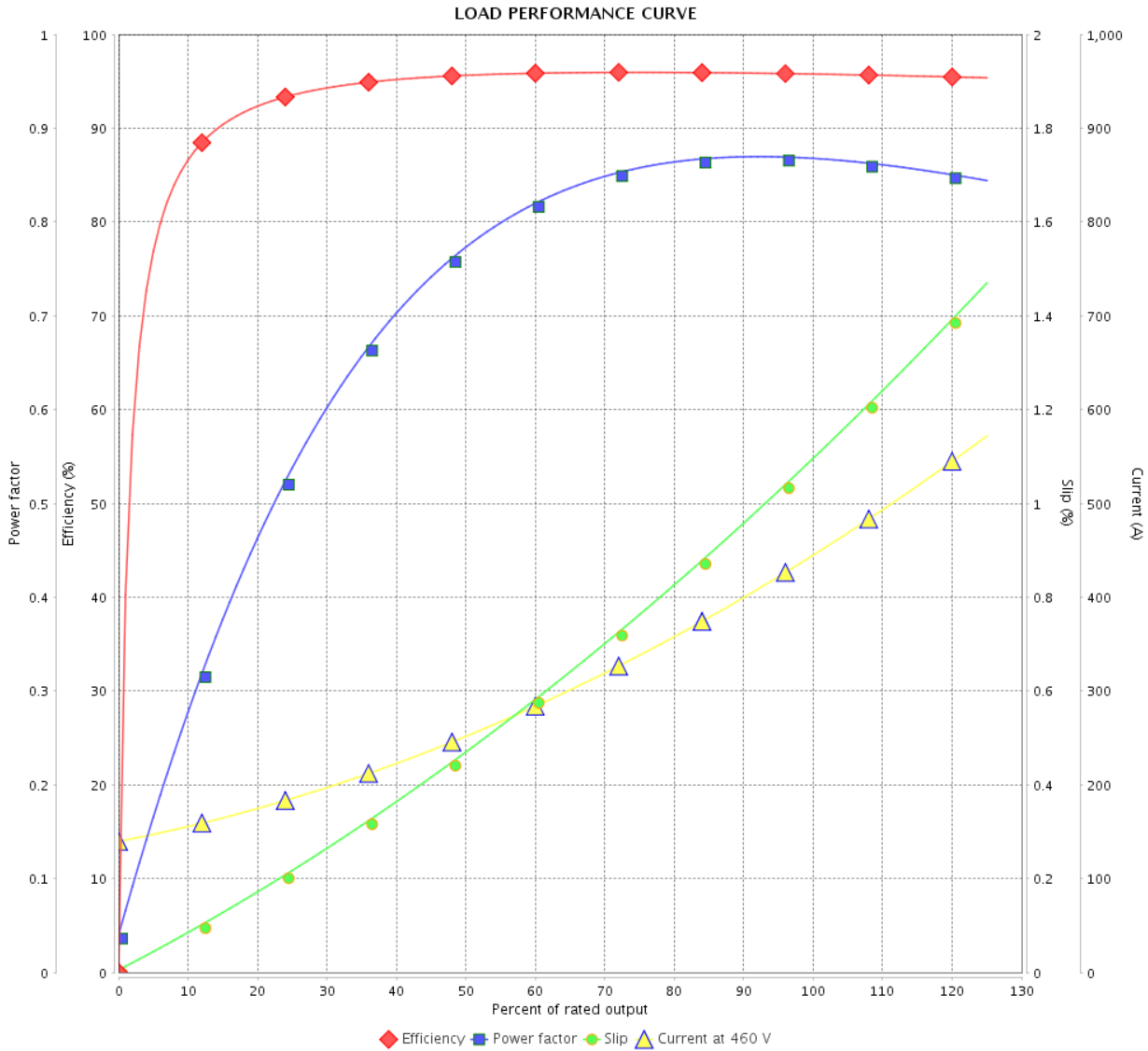


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Product code : 13384870

Catalog # : 40018OT3G447/9TS-W40



Performance : 460 V 60 Hz 4P

Rated current : 452 A
 LRC : 6.8
 Rated torque : 1180 ft.lb
 Locked rotor torque : 229 %
 Breakdown torque : 229 %
 Rated speed : 1780 rpm

Moment of inertia (J) : 77.6 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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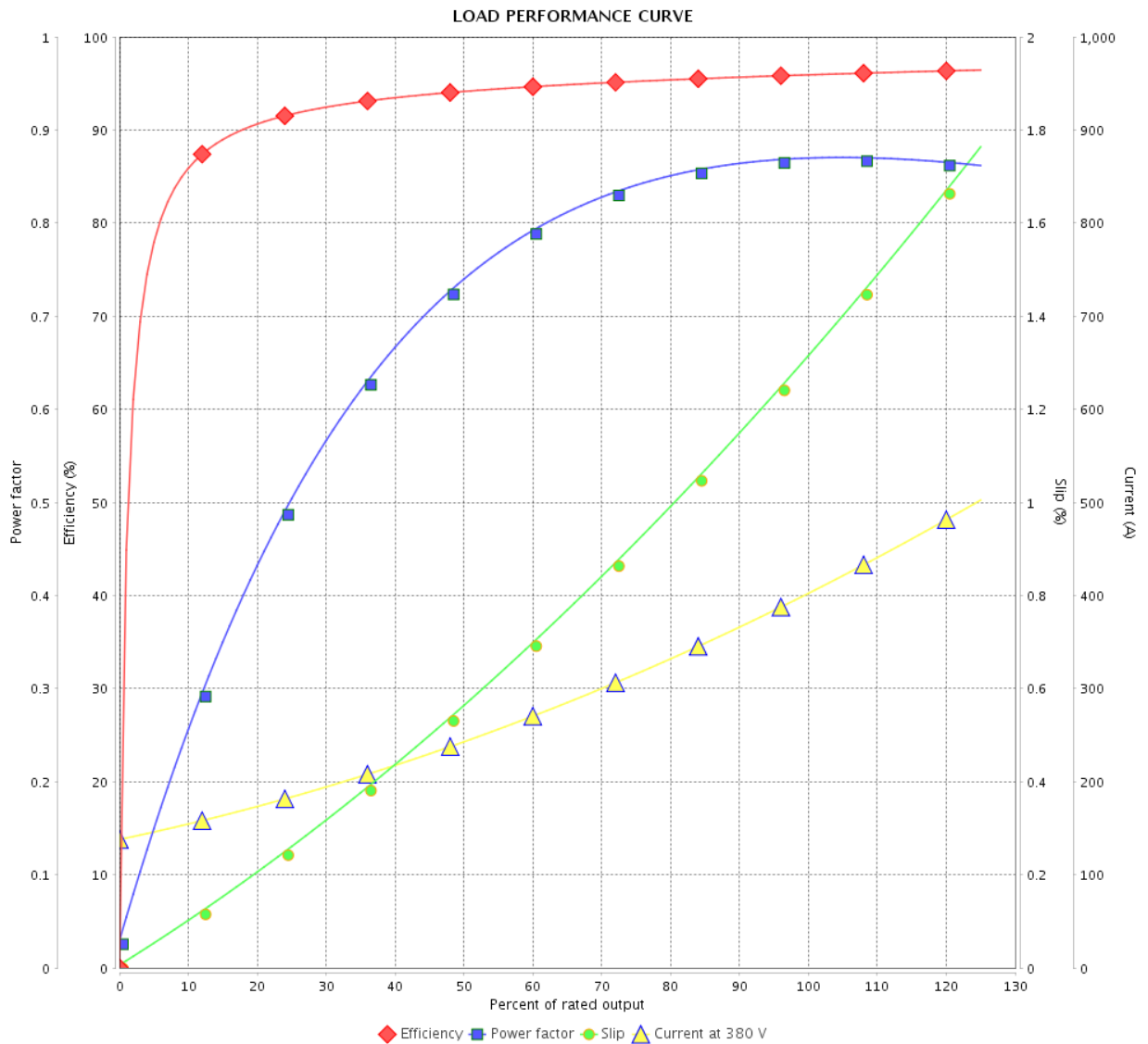


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Product code : 13384870

Catalog # : 40018OT3G447/9TS-W40



Performance : 380 V 50 Hz 4P IE3

Rated current : 400 A
LRC : 7.0
Rated torque : 1060 ft.lb
Locked rotor torque : 229 %
Breakdown torque : 250 %
Rated speed : 1480 rpm

Moment of inertia (J) : 77.6 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

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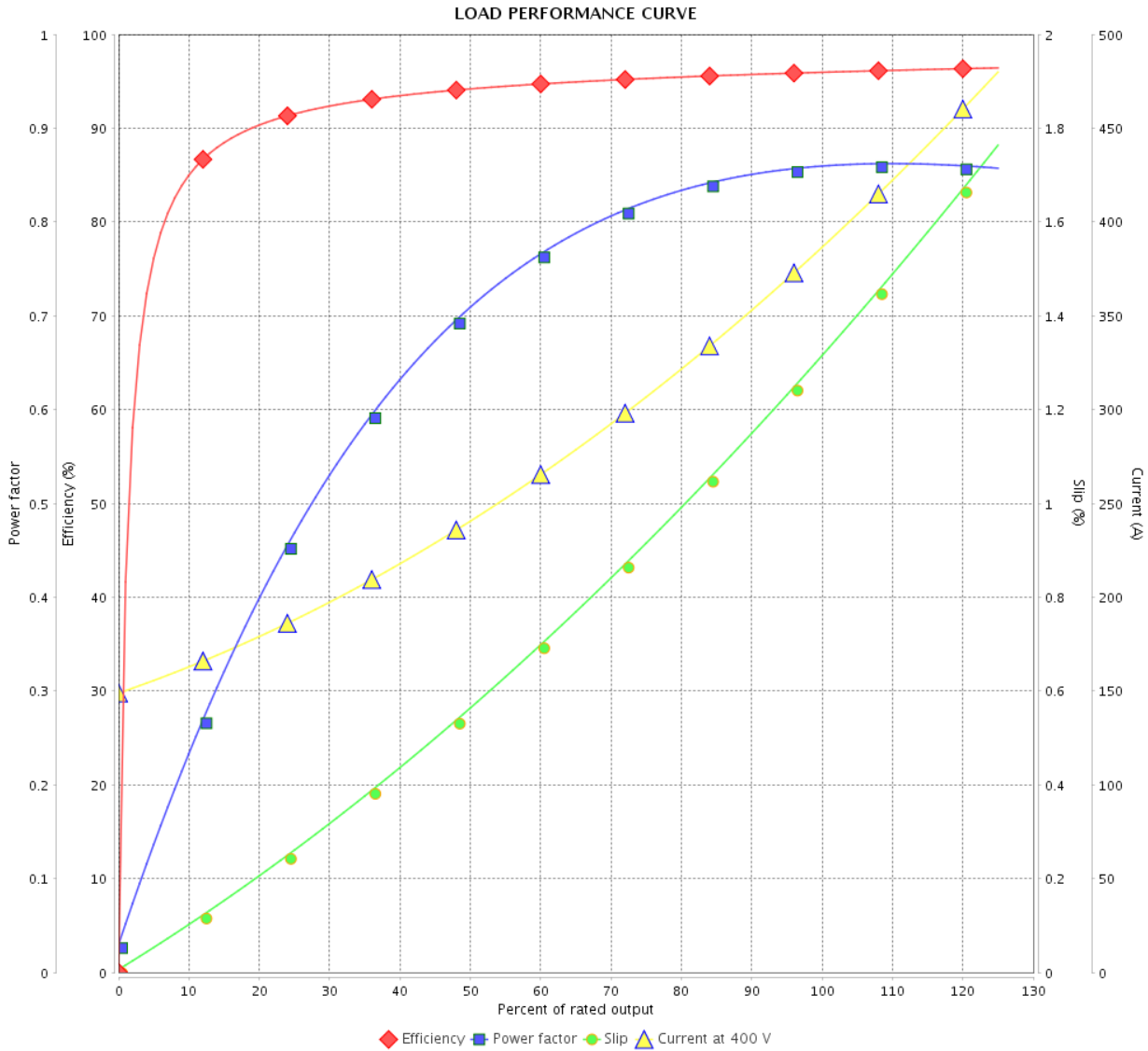


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Performance : 400 V 50 Hz 4P IE3

Rated current : 385 A
 LRC : 7.8
 Rated torque : 1060 ft.lb
 Locked rotor torque : 270 %
 Breakdown torque : 280 %
 Rated speed : 1480 rpm

Moment of inertia (J) : 77.6 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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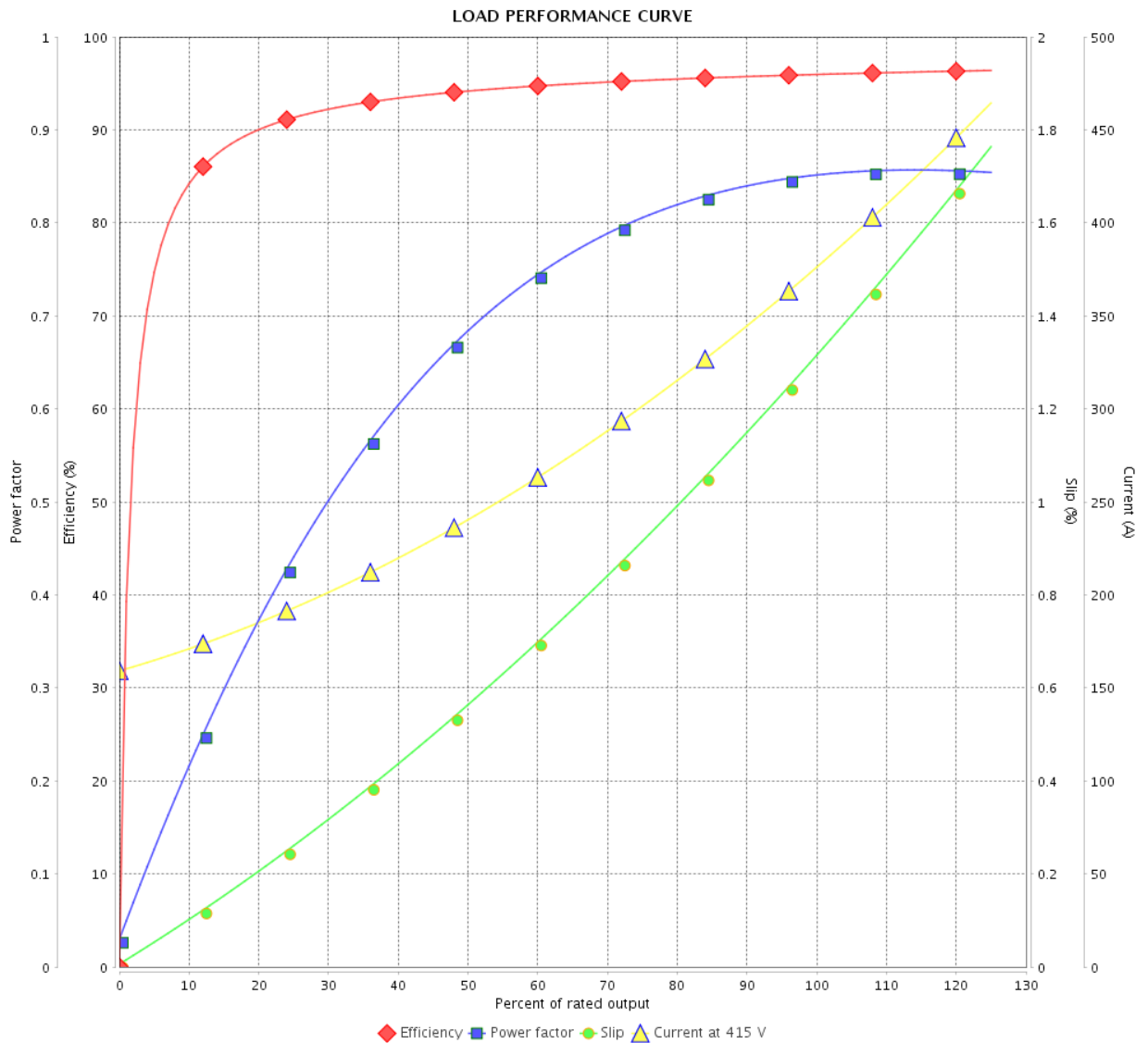


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Performance : 415 V 50 Hz 4P IE3

Rated current : 375 A
 LRC : 9.0
 Rated torque : 1060 ft.lb
 Locked rotor torque : 290 %
 Breakdown torque : 300 %
 Rated speed : 1480 rpm

Moment of inertia (J) : 77.6 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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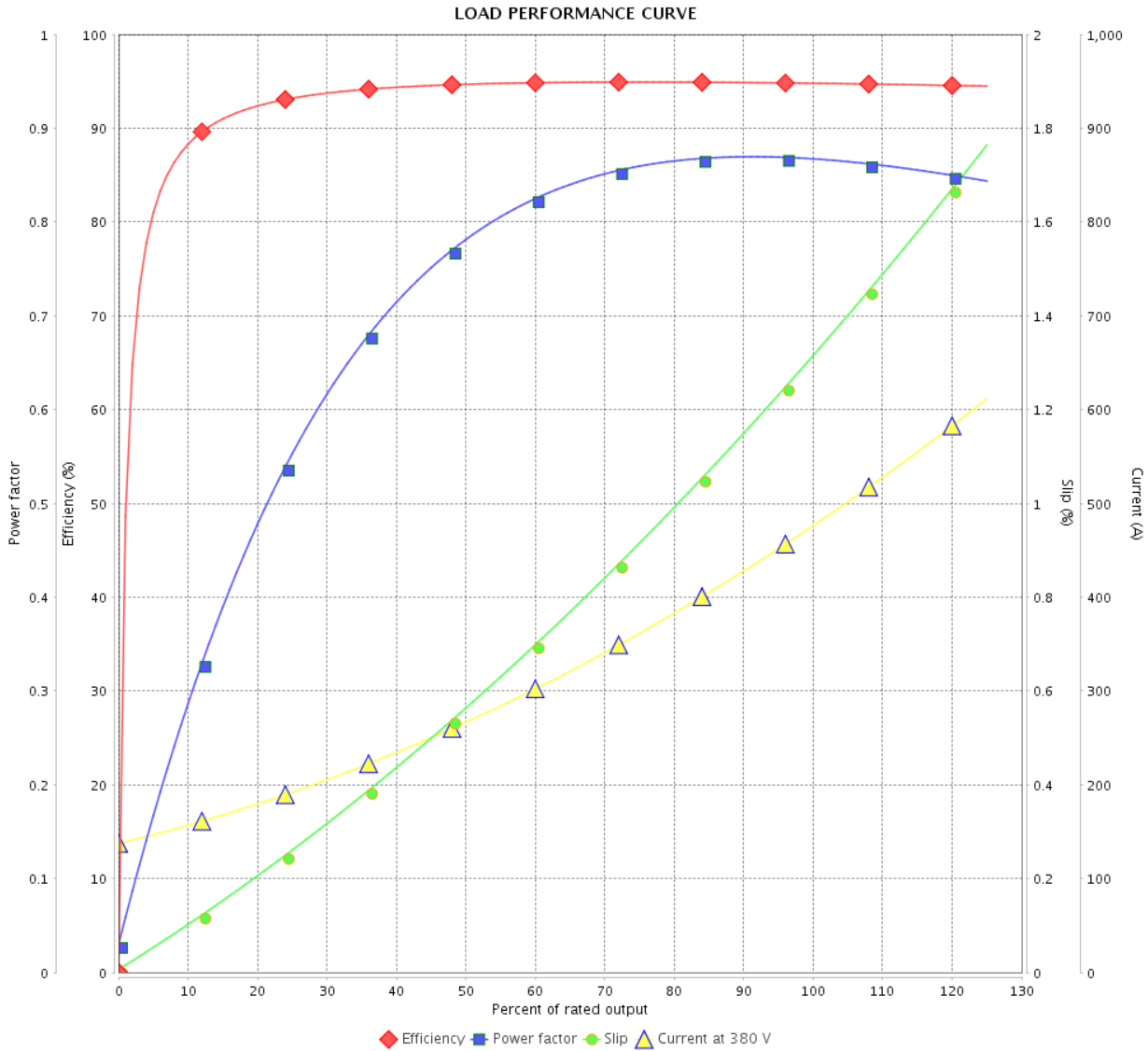


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Performance : 380 V 50 Hz 4P IE1

Rated current : 479 A
 LRC : 6.0
 Rated torque : 1240 ft.lb
 Locked rotor torque : 200 %
 Breakdown torque : 210 %
 Rated speed : 1480 rpm

Moment of inertia (J) : 77.6 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 105 K
 Design : B

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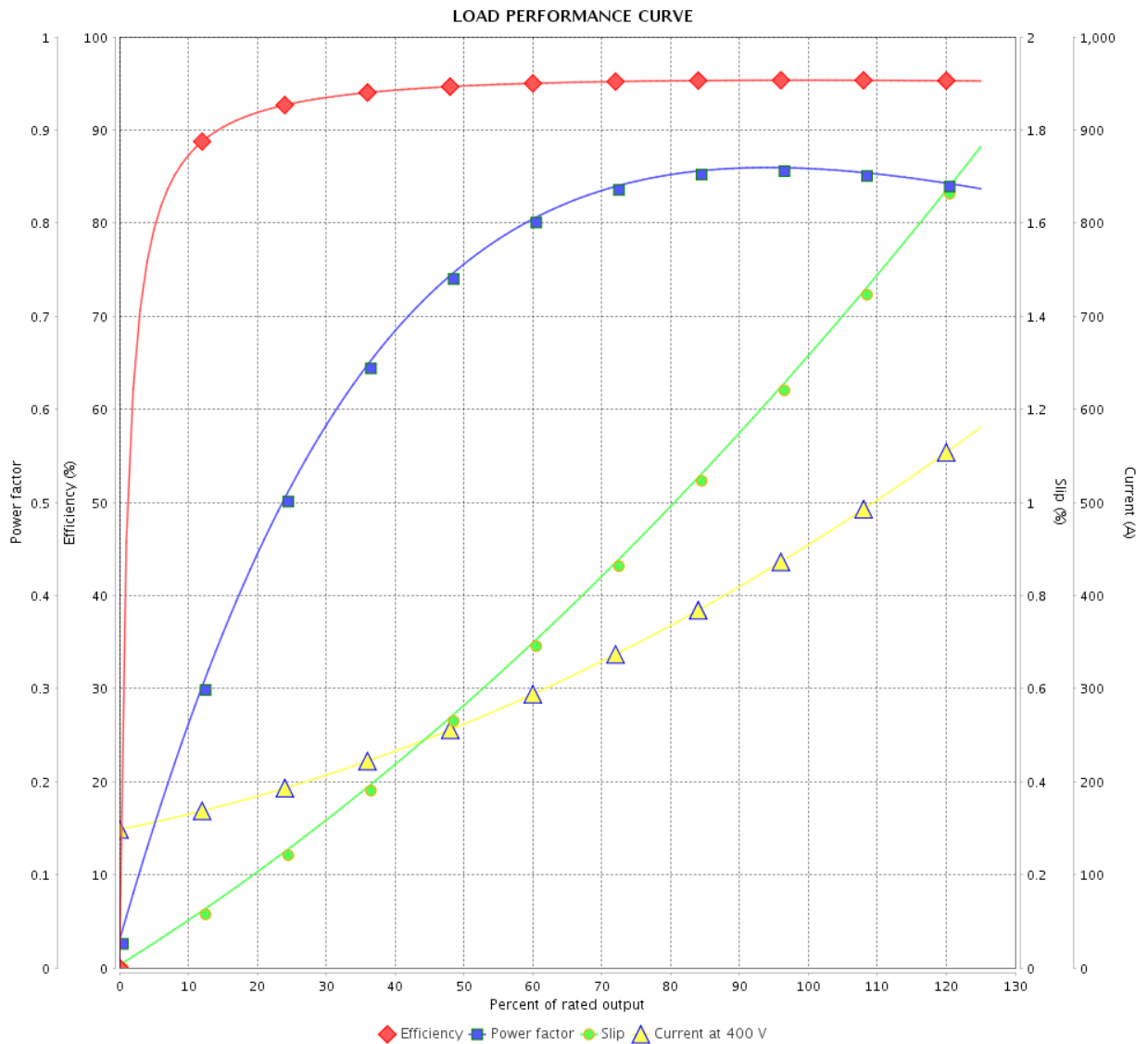


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Performance : 400 V 50 Hz 4P IE2

Rated current : 457 A
 LRC : 6.7
 Rated torque : 1240 ft.lb
 Locked rotor torque : 229 %
 Breakdown torque : 240 %
 Rated speed : 1480 rpm

Moment of inertia (J) : 77.6 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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Three Phase Induction Motor - Squirrel Cage



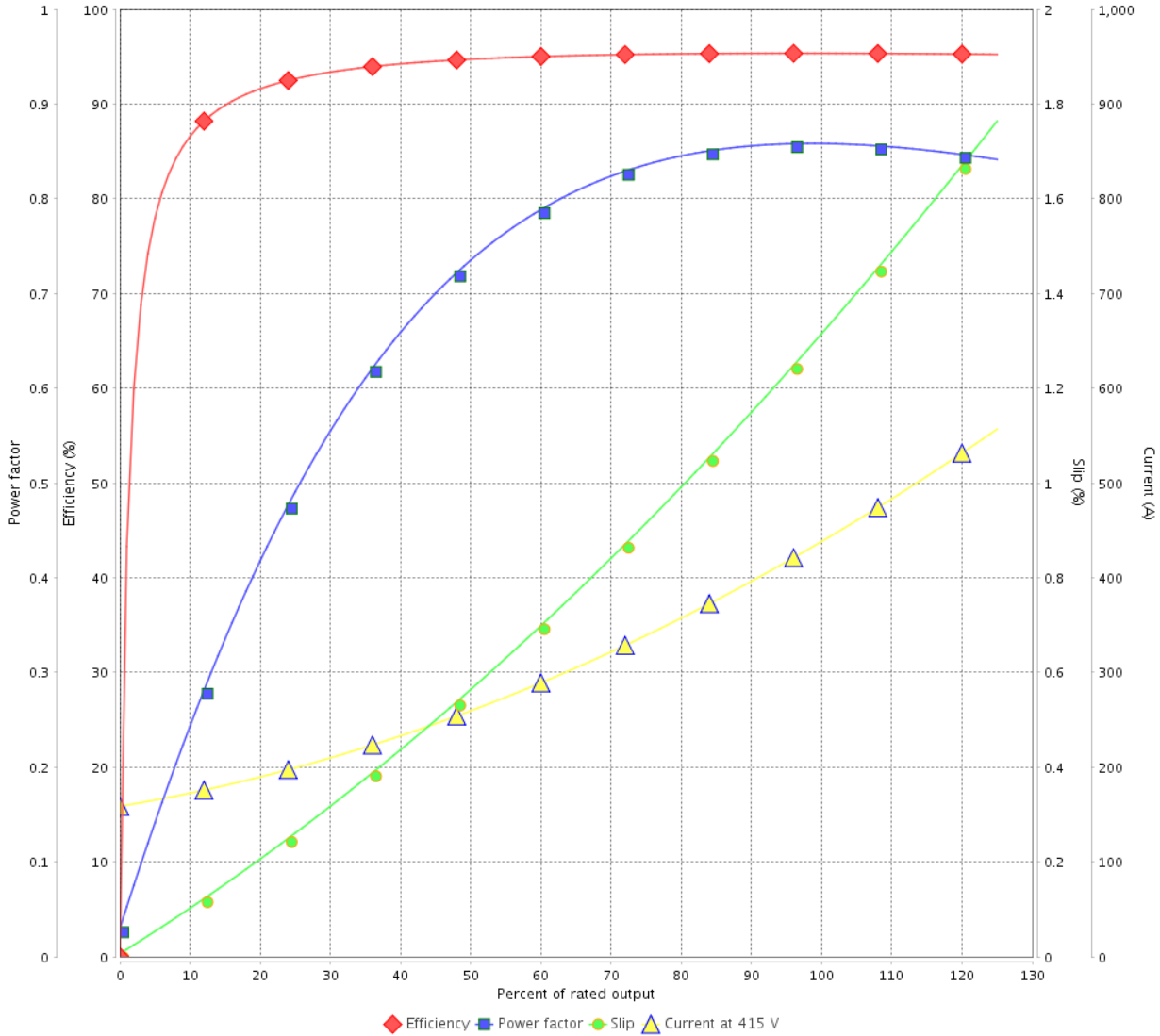
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Performance : 415 V 50 Hz 4P IE2

Rated current : 441 A
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 Locked rotor torque : 250 %
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Moment of inertia (J) : 77.6 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
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Temperature rise : 80 K
Design : B

Heating constant

Cooling constant

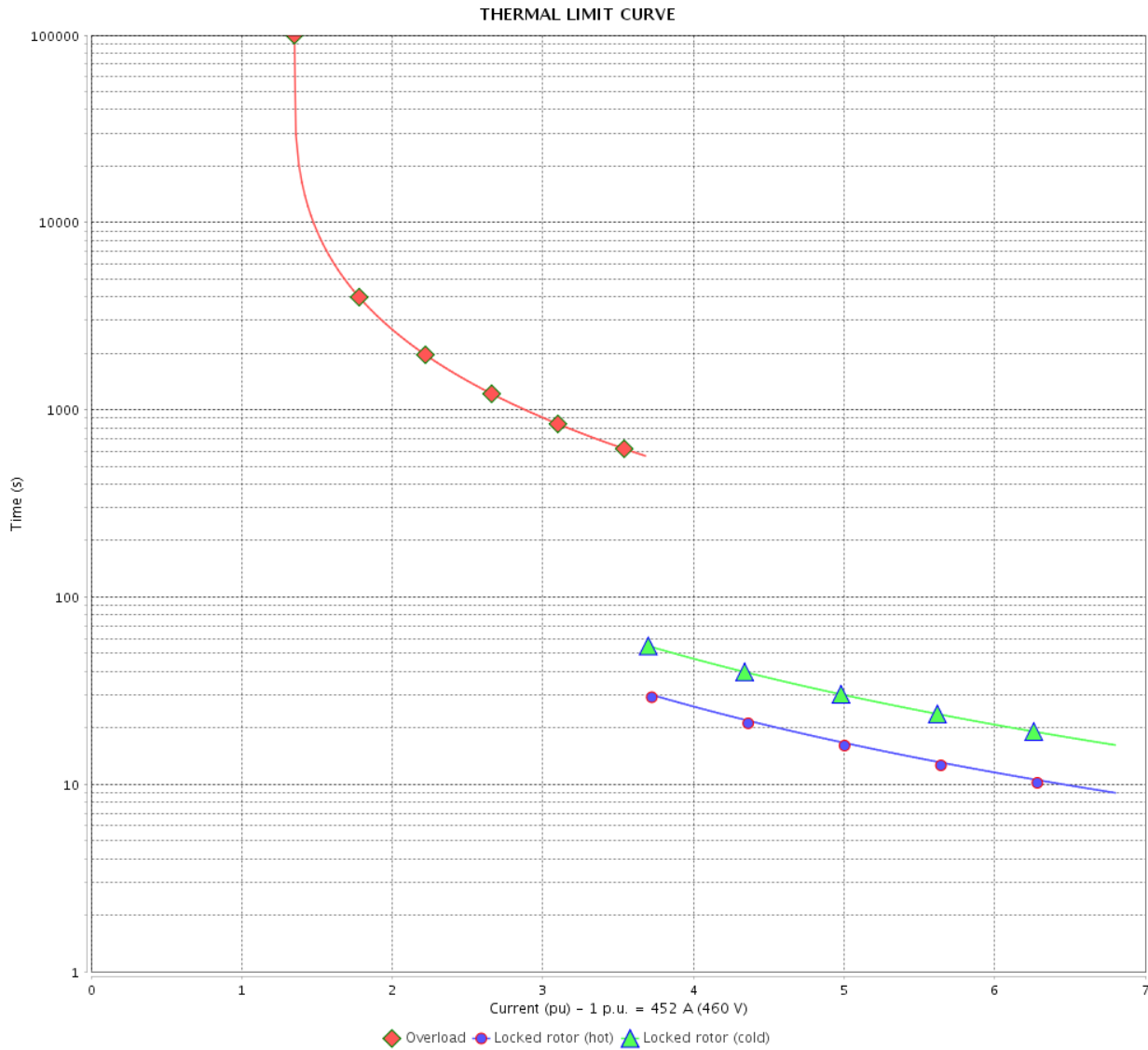
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Three Phase Induction Motor - Squirrel Cage

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Performance : 380 V 50 Hz 4P IE3

Rated current : 400 A	Moment of inertia (J) : 77.6 sq.ft.lb
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Rated torque : 1060 ft.lb	Insulation class : F
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Breakdown torque : 250 %	Temperature rise : 80 K
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Heating constant

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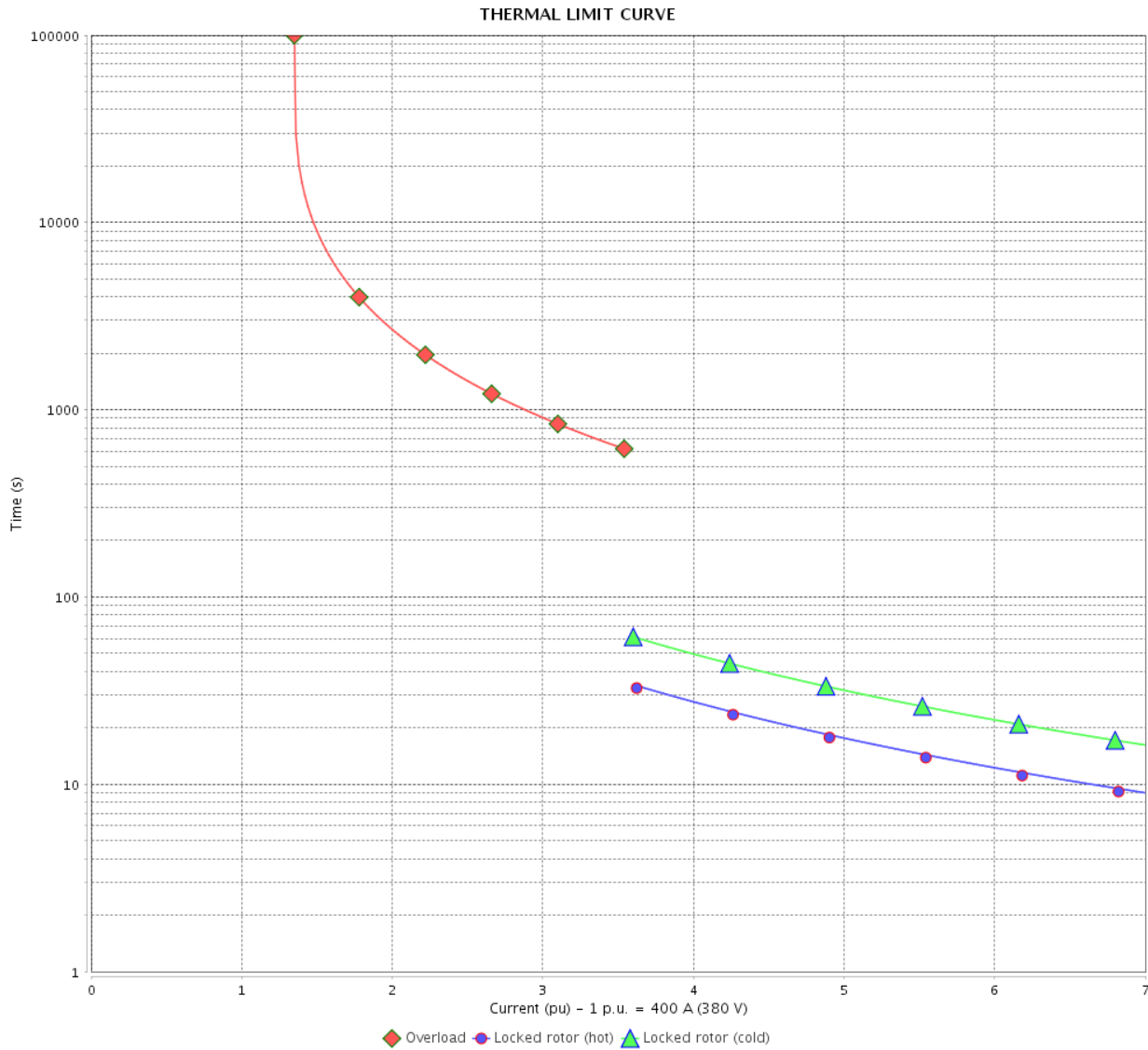
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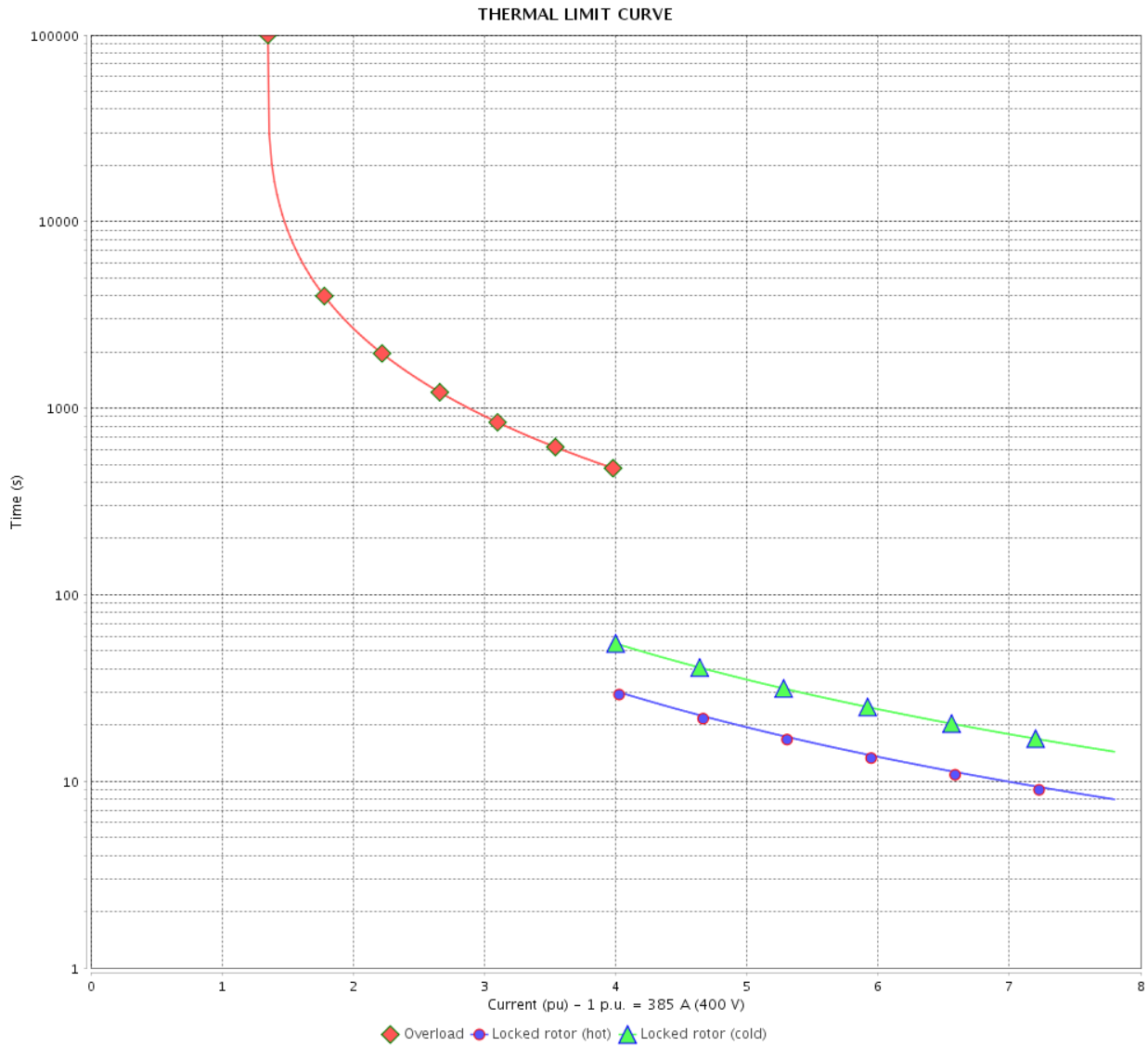
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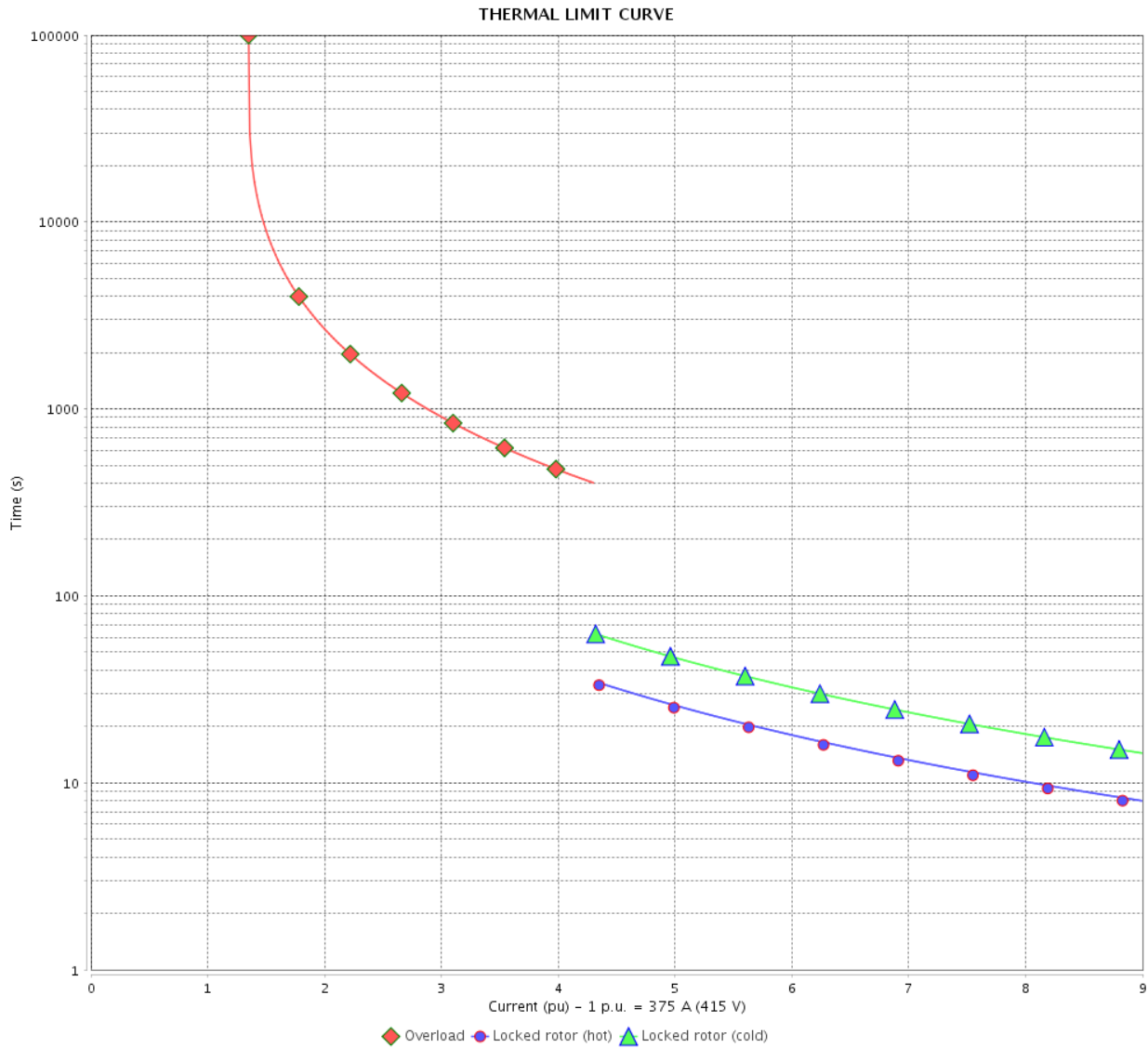
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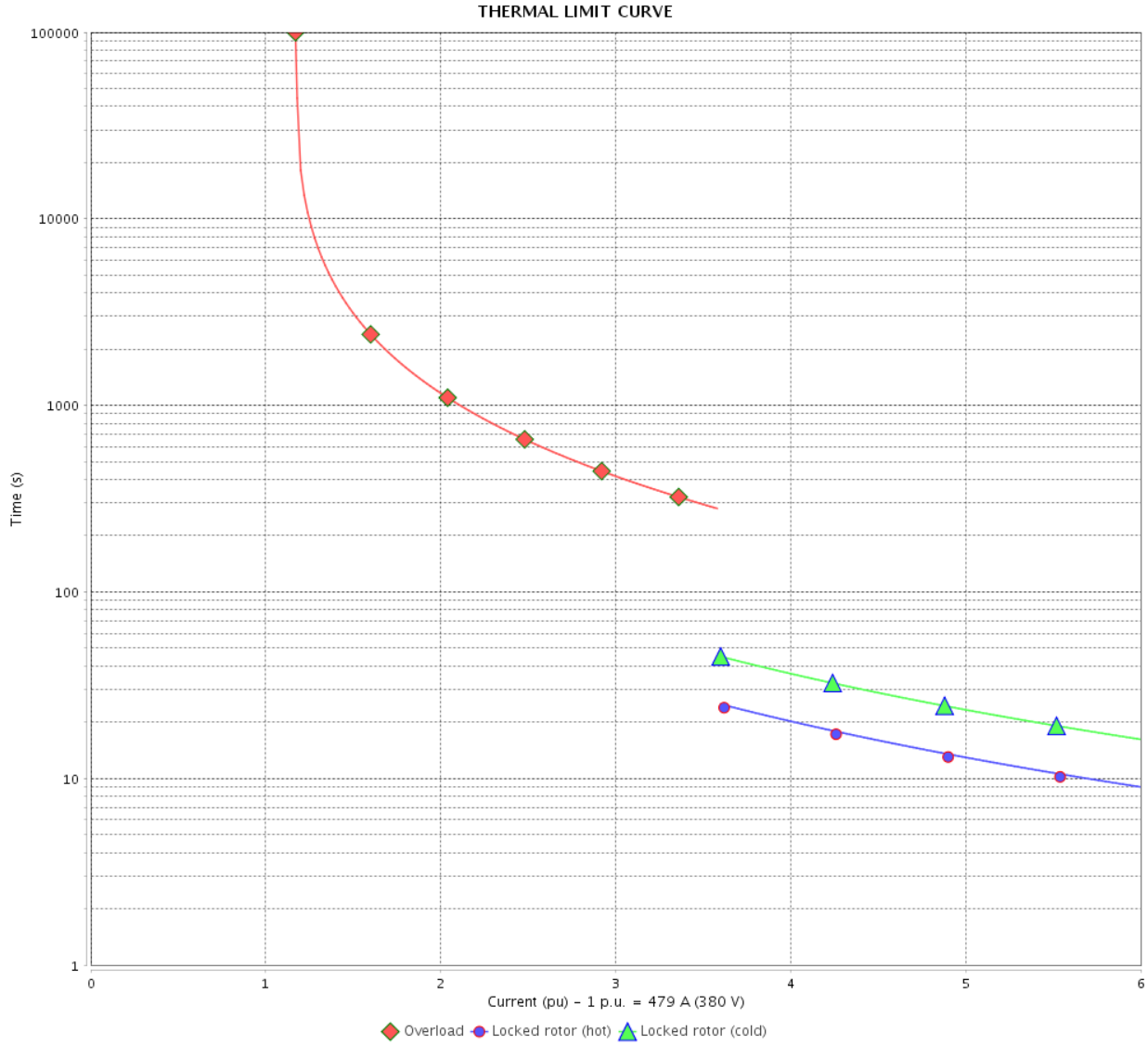
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Rated current : 457 A
LRC : 6.7
Rated torque : 1240 ft.lb
Locked rotor torque : 229 %
Breakdown torque : 240 %
Rated speed : 1480 rpm

Moment of inertia (J) : 77.6 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

Heating constant

Cooling constant

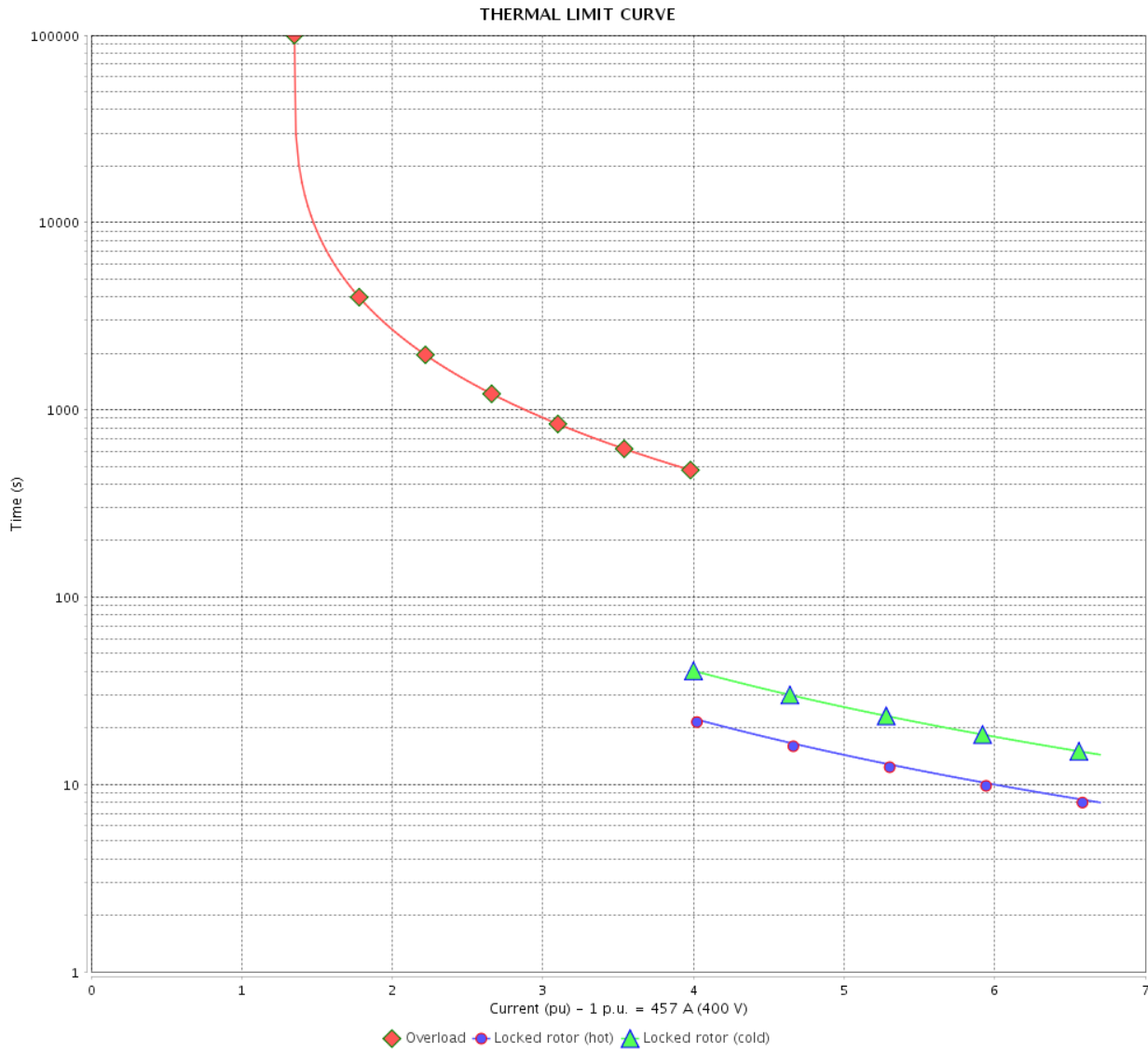
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	13/04/2022		27 / 37	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency
Three-Phase

Product code : 13384870

Catalog # : 40018OT3G447/9TS-W40

Performance : 415 V 50 Hz 4P IE2

Rated current : 441 A
LRC : 7.8
Rated torque : 1240 ft.lb
Locked rotor torque : 250 %
Breakdown torque : 260 %
Rated speed : 1480 rpm

Moment of inertia (J) : 77.6 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

Heating constant

Cooling constant

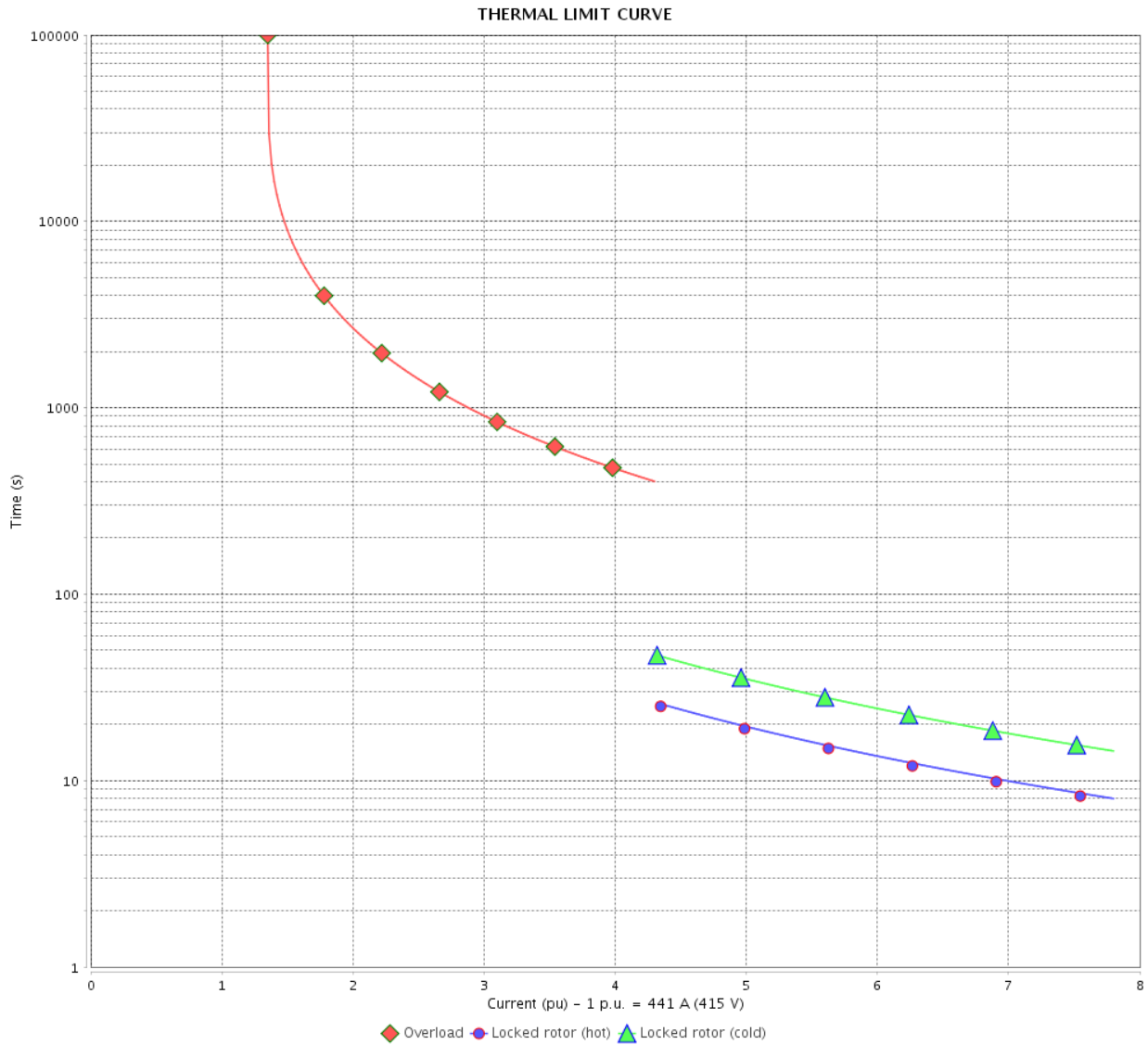
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	13/04/2022		29 / 37	

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

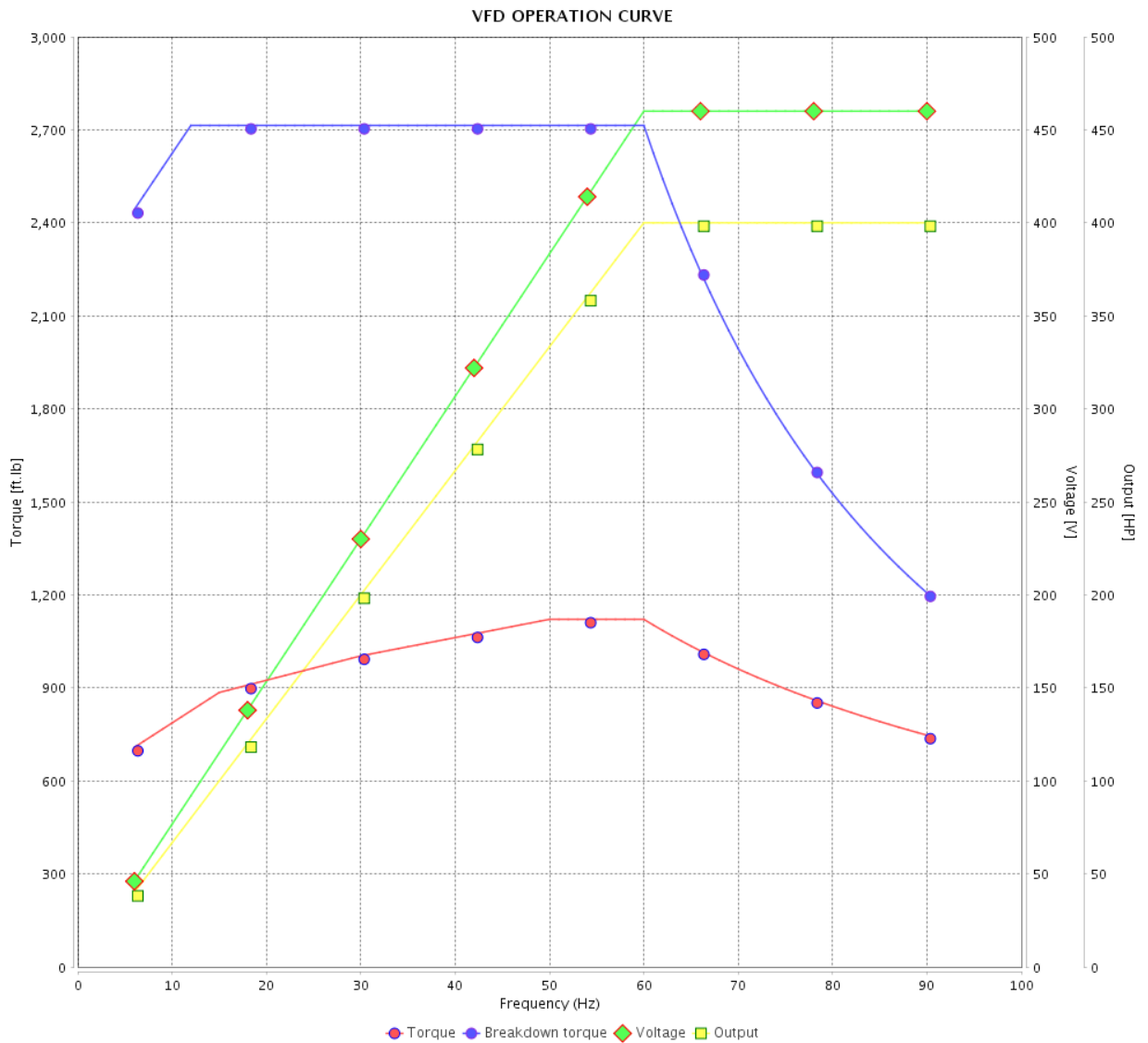


Customer : _____

Product line : W40 NEMA Premium Efficiency
Three-Phase

Product code : 13384870

Catalog # : 40018OT3G447/9TS-W40



Performance : 460 V 60 Hz 4P

Rated current : 452 A
LRC : 6.8
Rated torque : 1180 ft.lb
Locked rotor torque : 229 %
Breakdown torque : 229 %
Rated speed : 1780 rpm

Moment of inertia (J) : 77.6 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 31 / 37	Revision
Checked by				
Date	13/04/2022			

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



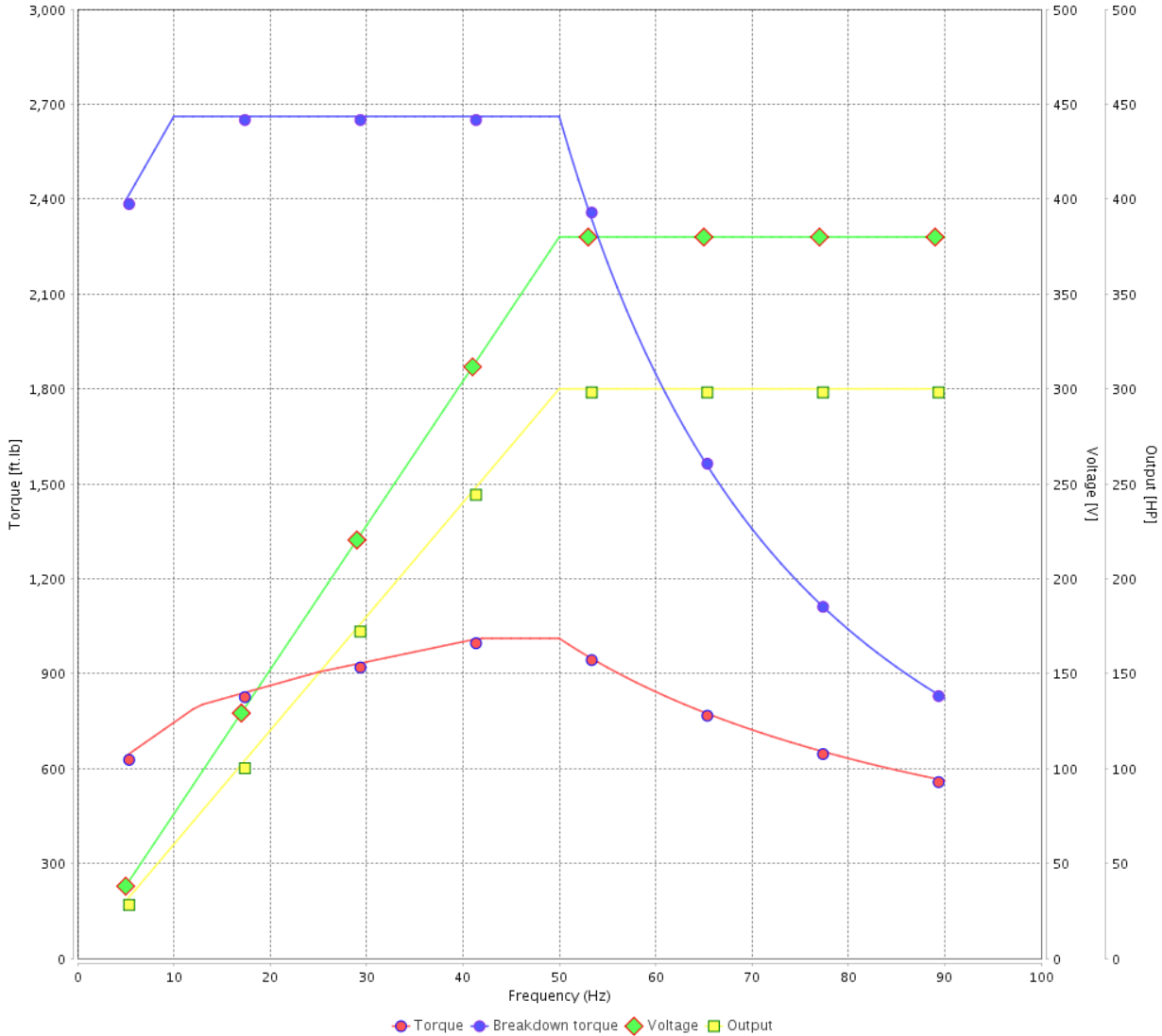
Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 13384870

Catalog # : 40018OT3G447/9TS-W40

VFD OPERATION CURVE



Performance : 380 V 50 Hz 4P IE3

Rated current : 400 A
 LRC : 7.0
 Rated torque : 1060 ft.lb
 Locked rotor torque : 229 %
 Breakdown torque : 250 %
 Rated speed : 1480 rpm

Moment of inertia (J) : 77.6 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

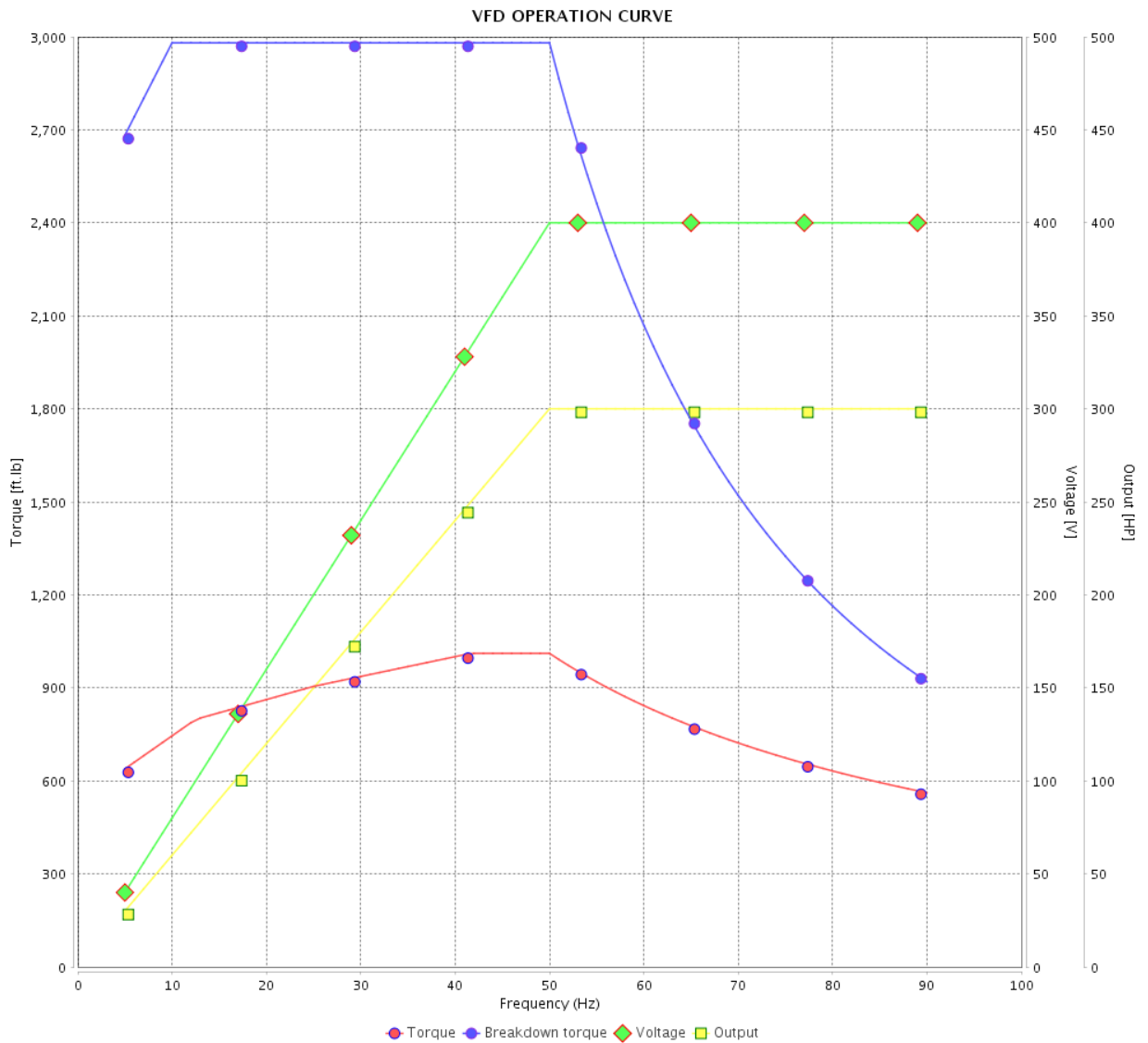


Customer :

Product line : W40 NEMA Premium Efficiency
Three-Phase

Product code : 13384870

Catalog # : 400180T3G447/9TS-W40



Performance : 400 V 50 Hz 4P IE3

Rated current : 385 A
LRC : 7.8
Rated torque : 1060 ft.lb
Locked rotor torque : 270 %
Breakdown torque : 280 %
Rated speed : 1480 rpm

Moment of inertia (J) : 77.6 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 33 / 37	Revision
Checked by				
Date	13/04/2022			

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



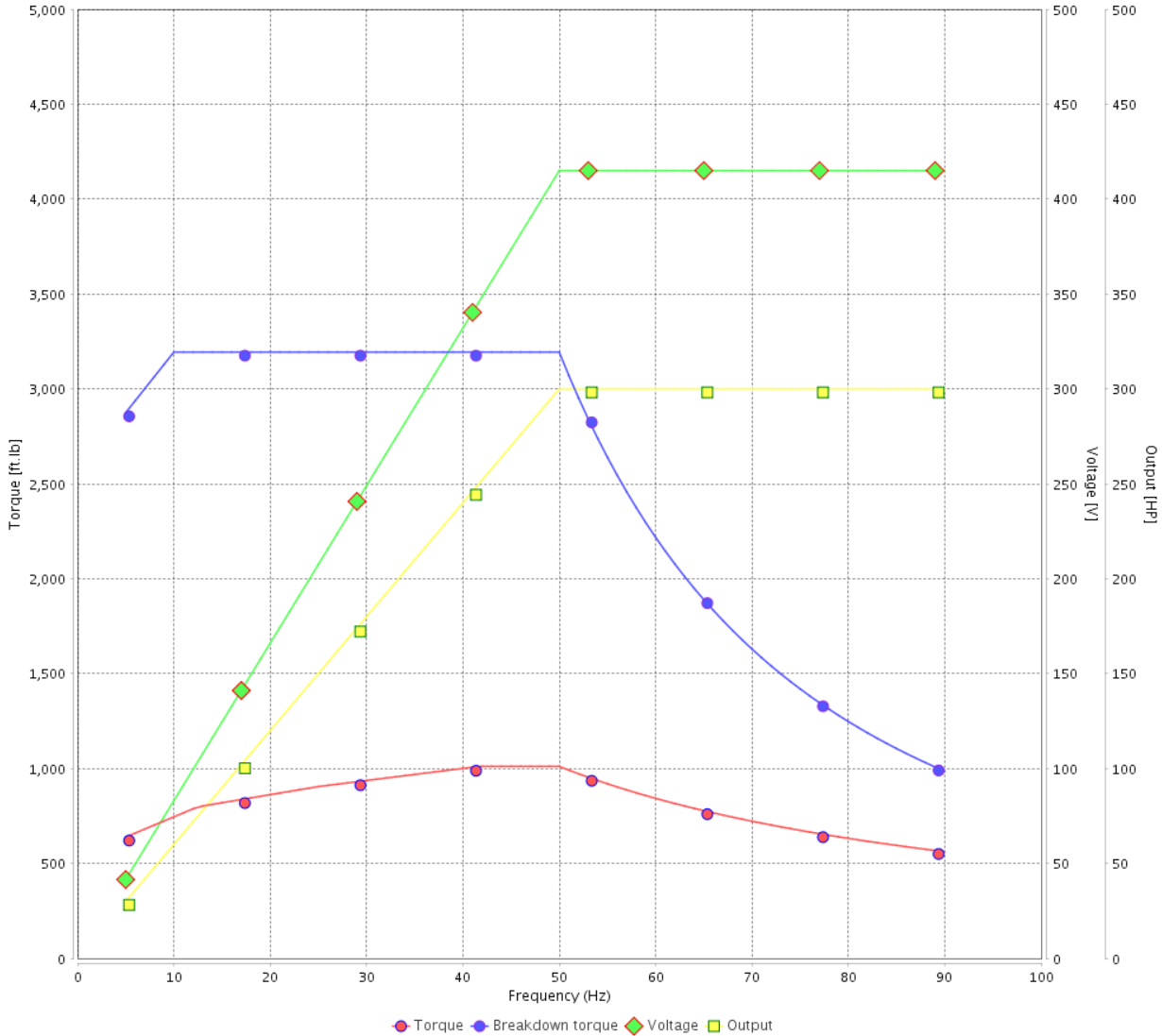
Customer :

Product line : W40 NEMA Premium Efficiency
Three-Phase

Product code : 13384870

Catalog # : 40018OT3G447/9TS-W40

VFD OPERATION CURVE



Performance : 415 V 50 Hz 4P IE3

Rated current : 375 A
LRC : 9.0
Rated torque : 1060 ft.lb
Locked rotor torque : 290 %
Breakdown torque : 300 %
Rated speed : 1480 rpm

Moment of inertia (J) : 77.6 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

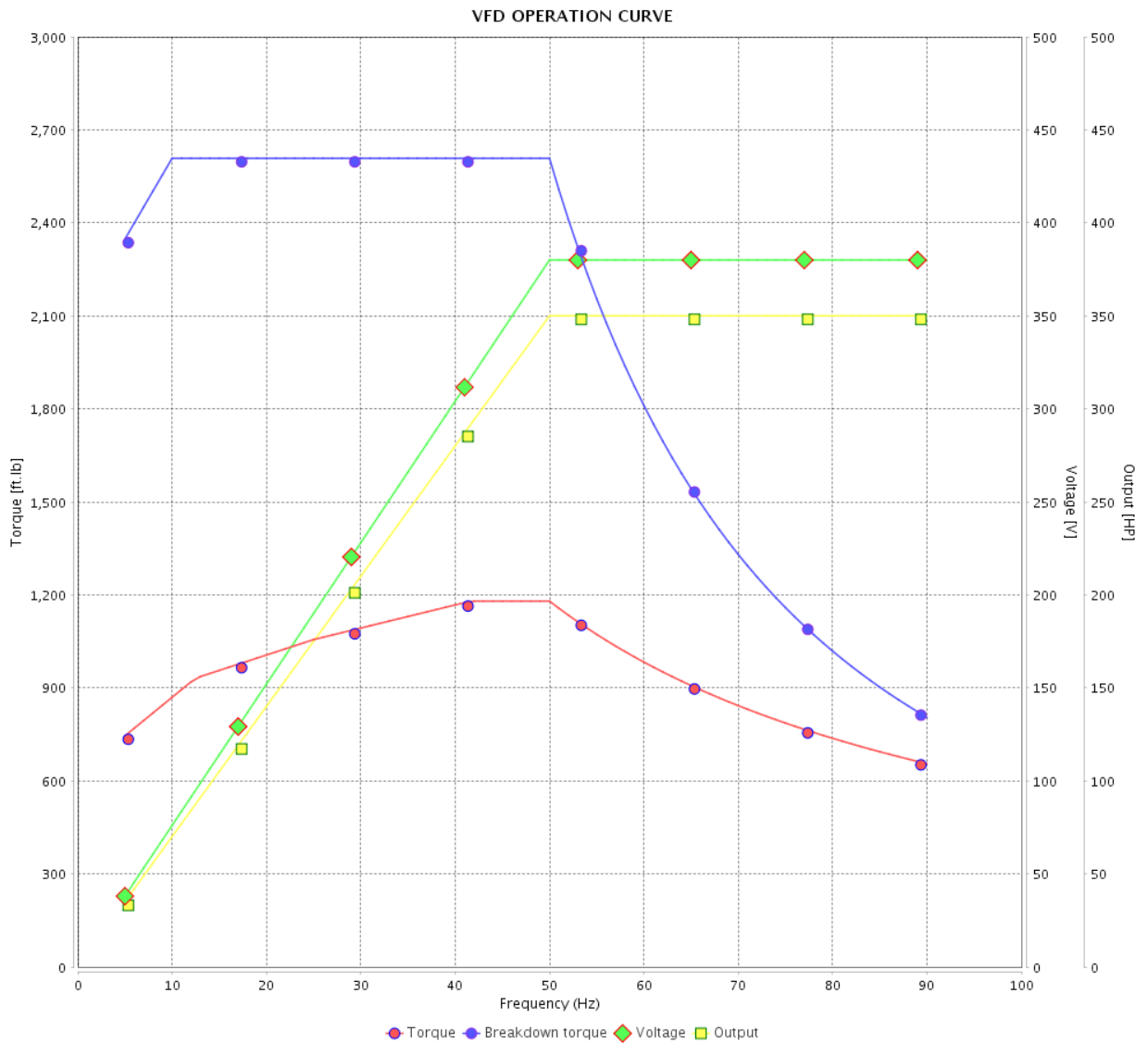


Customer :

Product line : W40 NEMA Premium Efficiency
Three-Phase

Product code : 13384870

Catalog # : 40018OT3G447/9TS-W40



Performance : 380 V 50 Hz 4P IE1

Rated current : 479 A
LRC : 6.0
Rated torque : 1240 ft.lb
Locked rotor torque : 200 %
Breakdown torque : 210 %
Rated speed : 1480 rpm

Moment of inertia (J) : 77.6 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 105 K
Design : B

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Performed by				Page 35 / 37
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Date	13/04/2022			
				Revision

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

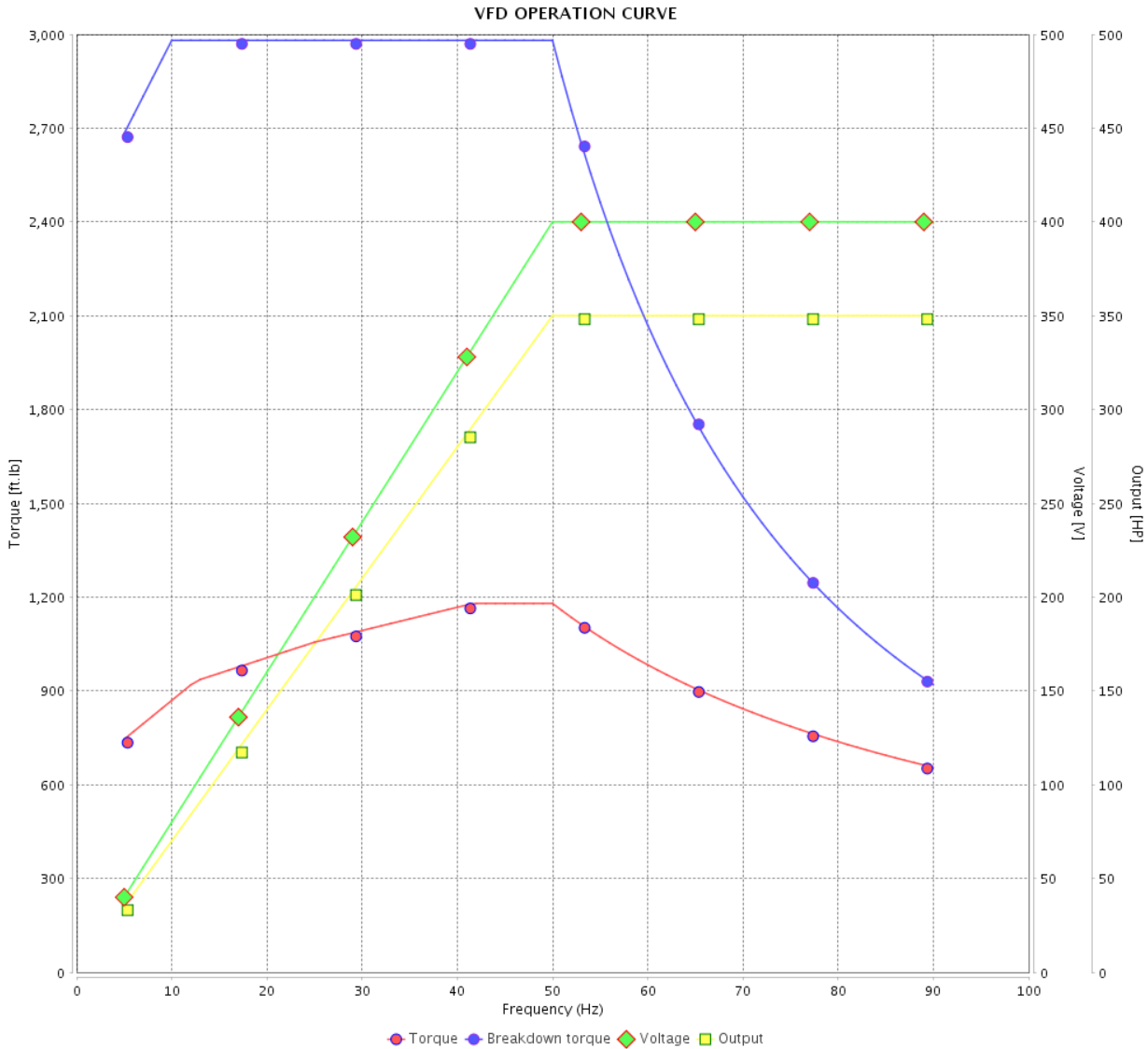


Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 13384870

Catalog # : 40018OT3G447/9TS-W40



Performance : 400 V 50 Hz 4P IE2

Rated current : 457 A
 LRC : 6.7
 Rated torque : 1240 ft.lb
 Locked rotor torque : 229 %
 Breakdown torque : 240 %
 Rated speed : 1480 rpm

Moment of inertia (J) : 77.6 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

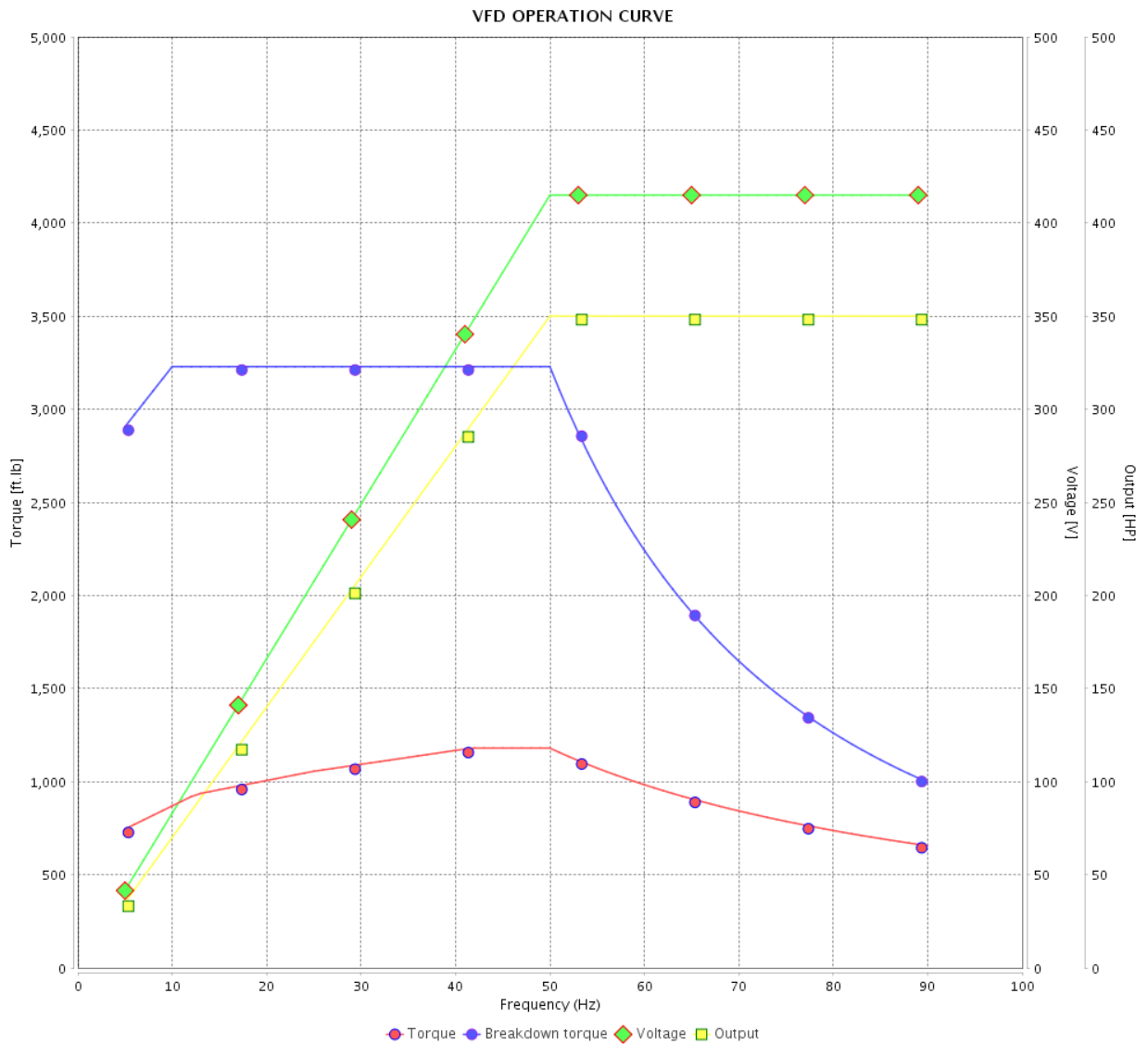


Customer :

Product line : W40 NEMA Premium Efficiency
Three-Phase

Product code : 13384870

Catalog # : 40018OT3G447/9TS-W40



Performance : 415 V 50 Hz 4P IE2

Rated current : 441 A
LRC : 7.8
Rated torque : 1240 ft.lb
Locked rotor torque : 250 %
Breakdown torque : 260 %
Rated speed : 1480 rpm

Moment of inertia (J) : 77.6 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			

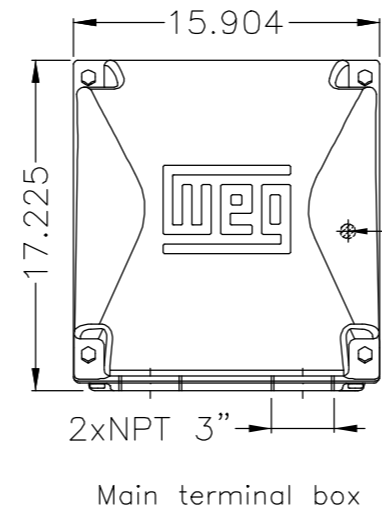
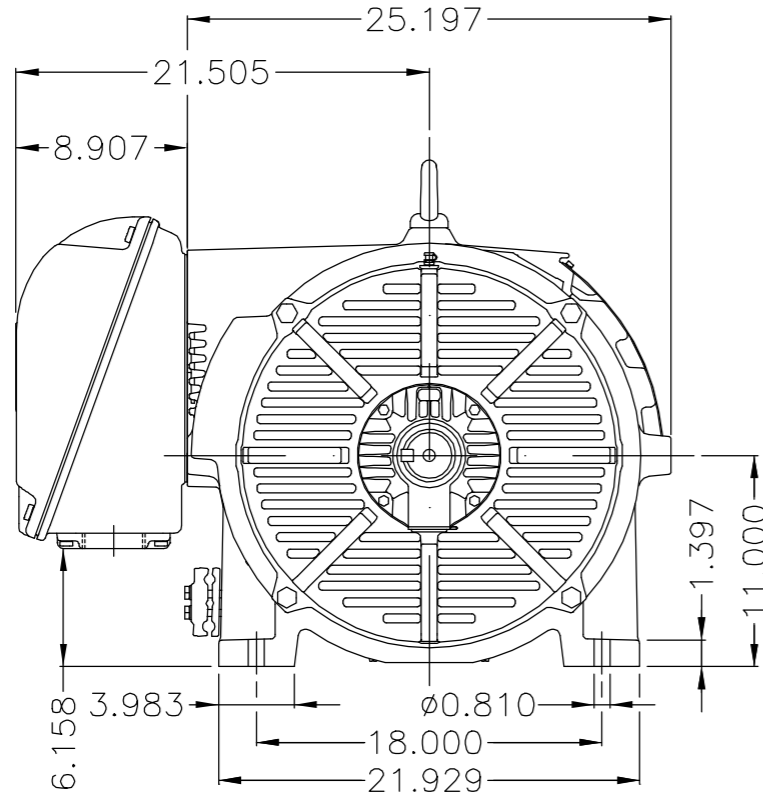
EIXO/SHAFT	
PADRÃO/STANDARD	
OPCIONAL/OPTIONAL	
ESPECIAL/SPECIAL	X

Dimensões em polegada
Dimensions in inches

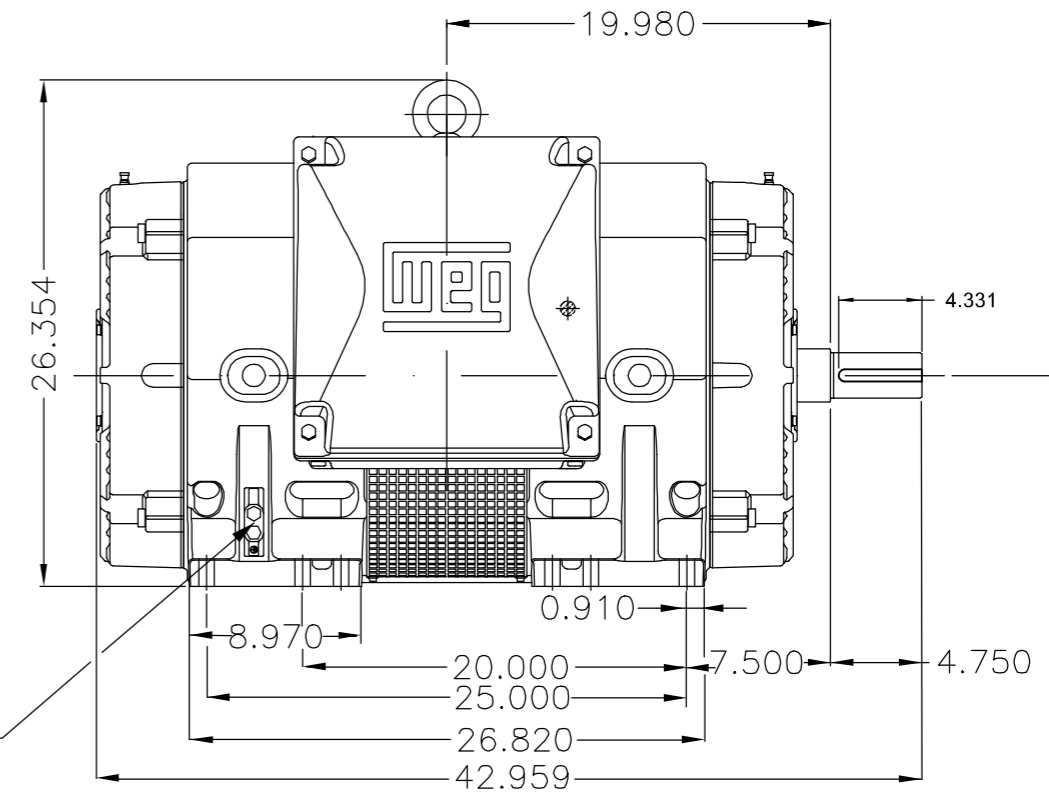
CERTIFIED WEG MOTORES
Certified document.
Not subject to changes.

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

A
B
C
D
E

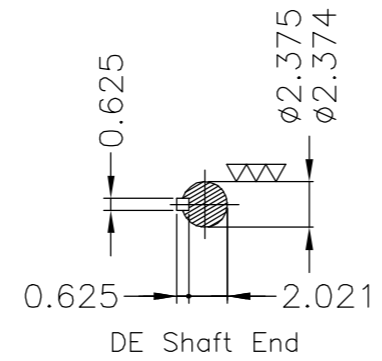


Grounding for leads 35–120mm²



Center Hole
DUNC 3/4"-10 WEG TBC-12

Grounding for leads 25–185mm²



Ponta de eixo TS / TS shaft end								
Plano de pintura 203A / Painting plan 203A								
Forma construtiva NEMA F-1 / Mounting NEMA F-1								
Forma construtiva B3D / Mounting B3R(D)								
WEG ELECTRIC CORPORATION - WEG								
						SCALE	1:10	
500001549643		ALTERADO CONFORME CLAIM 415219992	RICLAV	DALTONR	DALTONR	06.03.2019	02	
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ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER	
EXECUTED	SCARMAGNANI	THREE PHASE W40 MOTOR NEMA PREMIUM EFF FRAME 447/9TS IP23	10003839705		000 02			
CHECKED	CVITORINO							
RELEASED	CVITORINO							
REL DT	18.09.2015	WMO	Jaraguá do Sul	Engenharia de Produto	SHEET	1 /		

400 HP 04 Poles 60Hz 414007293/0 MEC

UNCONTROLLED COPY RELEASED ZME A3

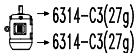
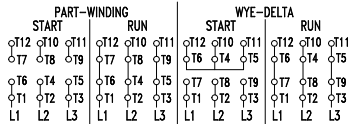
MODEL 400180T3G447/9TS-W40
MADE IN BRAZIL
13384870



MOD.T01#FOXON



PH 3	FR 447/9TS	HP(kW) 400(300)	Hz 60
V 460	A 452	IP23	
NEMA NOM EFF	95.8 %	RPM 1780	
ENCL ODP	DUTY CONT.	INS. CL. F ΔT 80 K	
PF 0.87	DES B	CODE G	AMB. 40°C
SF 1.15	SFA 520	ALT 1000 m.a.s.l.	



MOBIL POLYREX EM
20000 h

2291 Lbs