

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :								
Product line	: NEMA Premium Efficiency Three-Phase	Product code :	12769962					
		Catalog # :	05012ET3E365T-W22G					
Frame	: 364/5T	Cooling method	: IC411 - TEFC					
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	: 902 lb					
Protection degree	: IP55	Moment of inertia (J)	: 32.4 sq.ft.lb					
Design	: B							
Output [HP]	50	40	40	40	50	50	50	
Poles	6	6	6	6	6	6	6	
Frequency [Hz]	60	50	50	50	50	50	50	
Rated voltage [V]	230/460	380	400	415	380	400	415	
Rated current [A]	115/57.4	57.7	55.5	53.5	70.5	66.4	64.8	
L. R. Amperes [A]	735/367	358	377	396	345	365	389	
LRC [A]	6.4x(Code G)	6.2x(Code G)	6.8x(Code H)	7.4x(Code J)	4.9x(Code E)	5.5x(Code F)	6.0x(Code F)	
No load current [A]	40.0/20.0	19.8	21.1	22.1	19.8	21.1	22.1	
Rated speed [RPM]	1180	980	980	985	970	975	980	
Slip [%]	1.67	2.00	2.00	1.50	3.00	2.50	2.00	
Rated torque [ft.lb]	223	214	214	213	271	269	268	
Locked rotor torque [%]	200	200	229	250	160	180	200	
Breakdown torque [%]	240	240	260	290	190	210	229	
Service factor	1.25	1.00	1.00	1.00	1.00	1.00	1.00	
Temperature rise	80 K	80 K	80 K	80 K	105 K	80 K	80 K	
Locked rotor time	32s (cold) 18s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	
Noise level ²	66.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	
Efficiency (%)	25%	93.4	92.5	92.7	92.6	93.5	93.3	93.4
	50%	93.6	92.7	92.7	92.6	93.0	93.0	93.0
	75%	94.1	92.8	93.1	93.1	92.4	93.0	93.0
	100%	94.1	92.9	92.9	92.9	91.7	92.4	92.4
Power Factor	25%	0.49	0.48	0.45	0.41	0.53	0.51	0.49
	50%	0.74	0.72	0.70	0.66	0.77	0.77	0.74
	75%	0.83	0.82	0.81	0.79	0.84	0.83	0.83
	100%	0.86	0.85	0.84	0.84	0.87	0.87	0.86
Bearing type	: Drive end : 6314 C3	Non drive end : 6314 C3	Foundation loads					
Sealing	: WSeal	WSeal	Max. traction	: 1658 lb				
Lubrication interval	: 17000 h	17000 h	Max. compression	: 2561 lb				
Lubricant amount	: 27 g	27 g						
Lubricant type	: Mobil Polyrex EM							
Notes USABLE @208V 127A SF 1.10 SFA 140A								
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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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



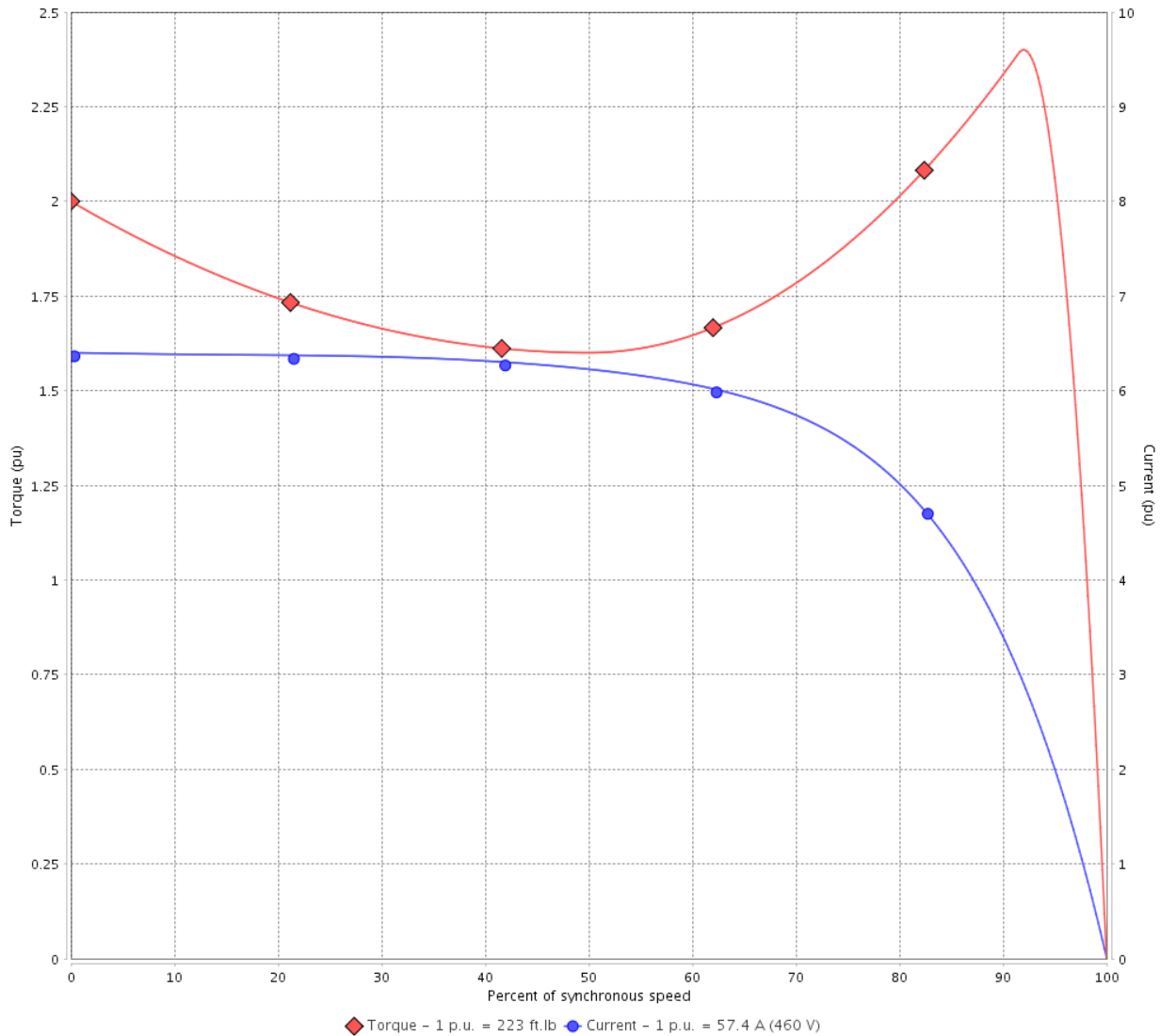
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12769962

Catalog # : 05012ET3E365T-W22G

TORQUE AND CURRENT VS SPEED CURVE



Performance : 230/460 V 60 Hz 6P

Rated current	: 115/57.4 A	Moment of inertia (J)	: 32.4 sq.ft.lb
LRC	: 6.4	Duty cycle	: Cont.(S1)
Rated torque	: 223 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.25
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 1180 rpm	Design	: B

Locked rotor time : 32s (cold) 18s (hot)

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TORQUE AND CURRENT VS SPEED CURVE



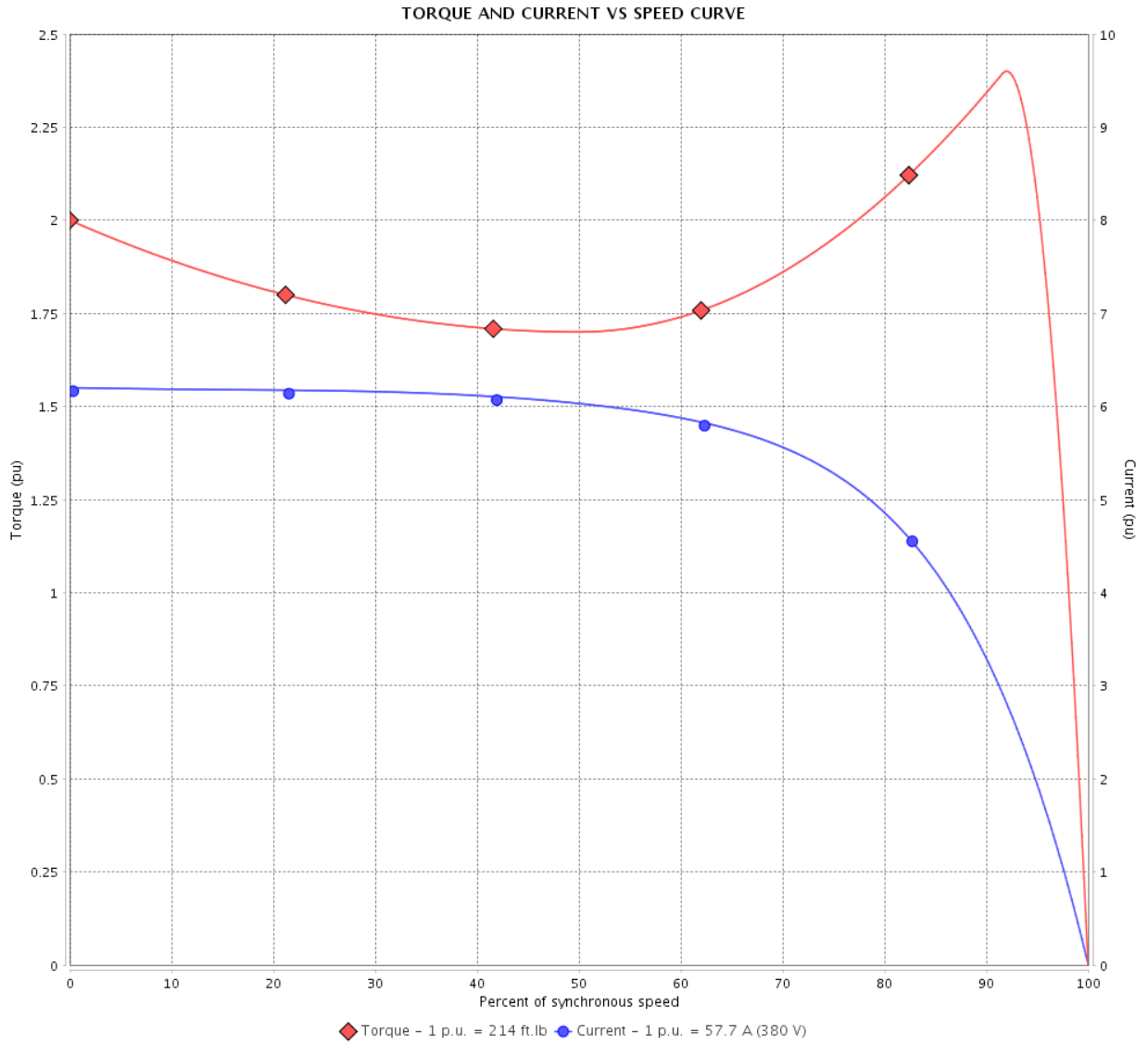
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Customer :

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Product code : 12769962

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Performance : 380 V 50 Hz 6P IE3

Rated current	: 57.7 A	Moment of inertia (J)	: 32.4 sq.ft.lb
LRC	: 6.2	Duty cycle	: Cont.(S1)
Rated torque	: 214 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.00
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 980 rpm	Design	: B

Locked rotor time : 27s (cold) 15s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

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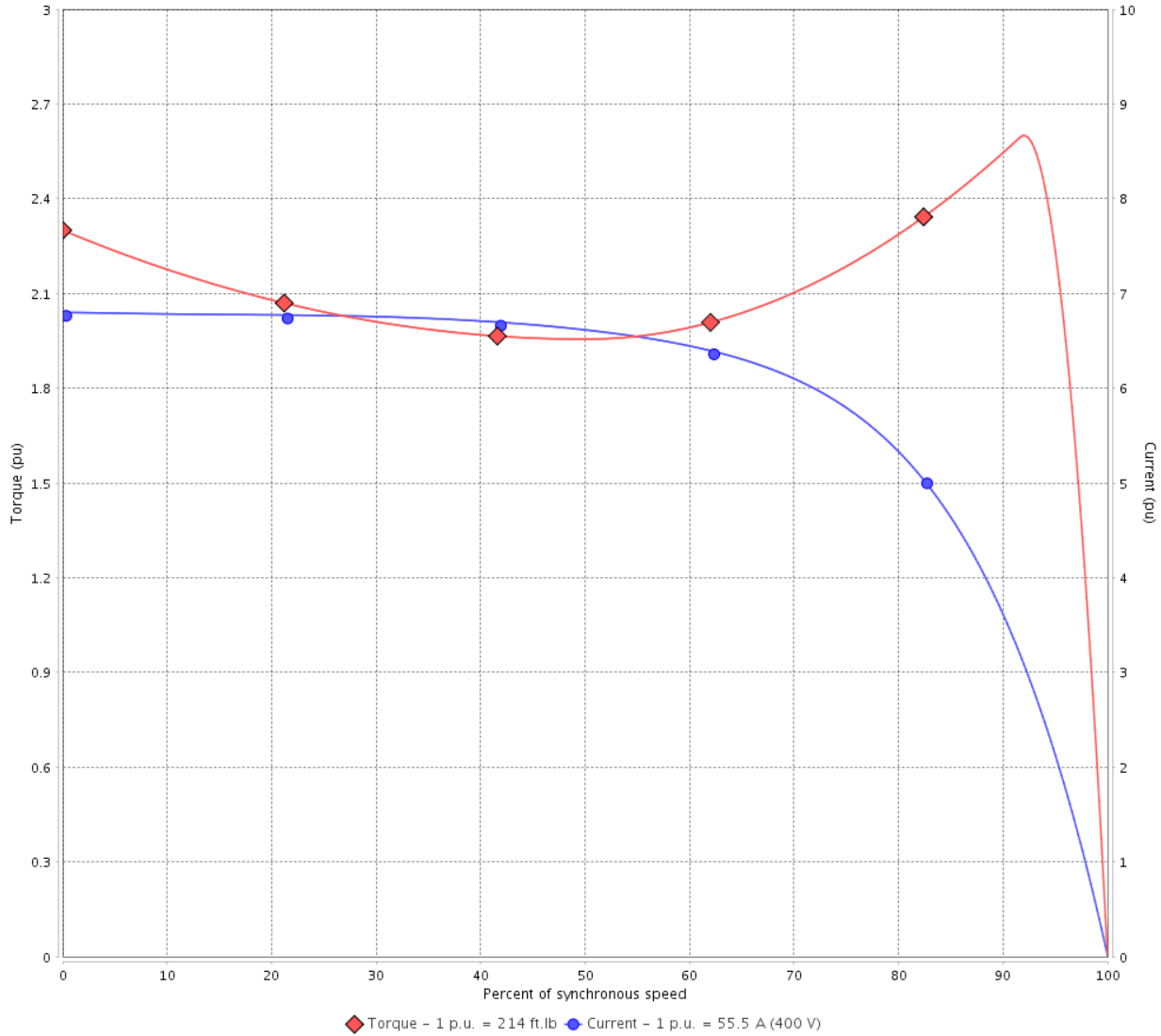
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TORQUE AND CURRENT VS SPEED CURVE



Performance : 400 V 50 Hz 6P IE3

Rated current	: 55.5 A	Moment of inertia (J)	: 32.4 sq.ft.lb
LRC	: 6.8	Duty cycle	: Cont.(S1)
Rated torque	: 214 ft.lb	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.00
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 980 rpm	Design	: B

Locked rotor time : 27s (cold) 15s (hot)

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TORQUE AND CURRENT VS SPEED CURVE



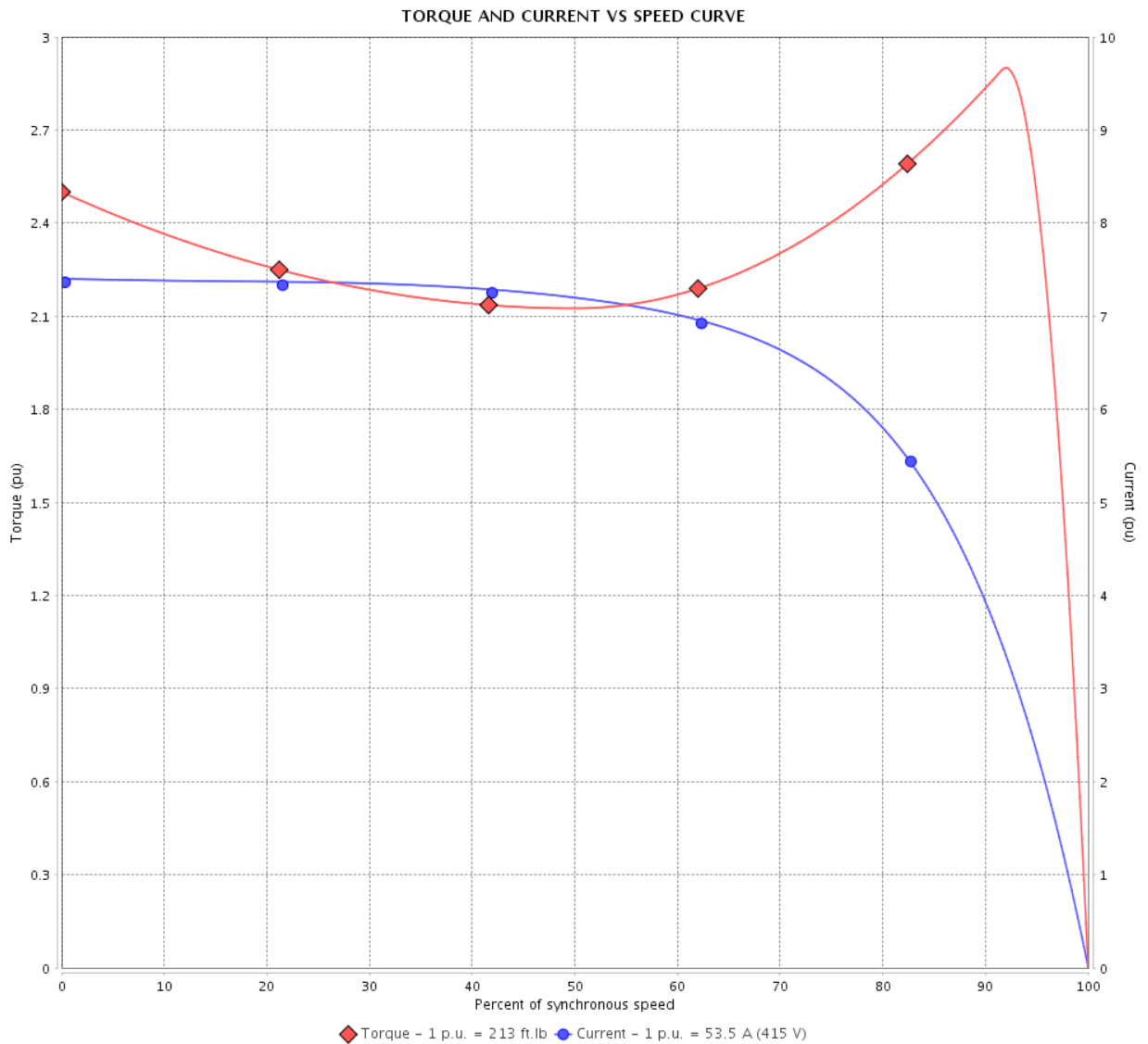
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Performance : 415 V 50 Hz 6P IE3

Rated current	: 53.5 A	Moment of inertia (J)	: 32.4 sq.ft.lb
LRC	: 7.4	Duty cycle	: Cont.(S1)
Rated torque	: 213 ft.lb	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.00
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 985 rpm	Design	: B

Locked rotor time : 27s (cold) 15s (hot)

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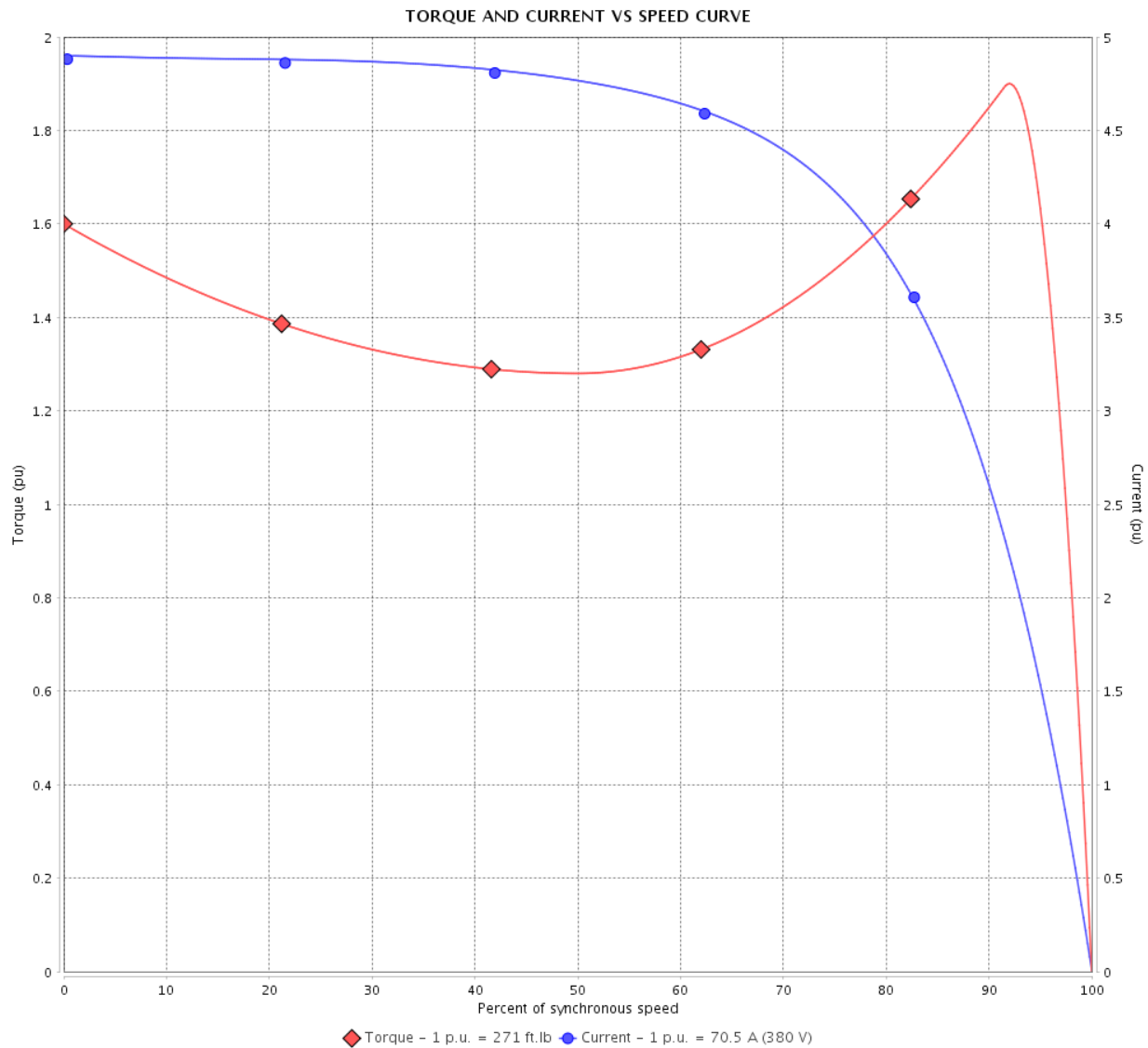


Customer :

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Performance : 380 V 50 Hz 6P IE1

Rated current	: 70.5 A	Moment of inertia (J)	: 32.4 sq.ft.lb
LRC	: 4.9	Duty cycle	: Cont.(S1)
Rated torque	: 271 ft.lb	Insulation class	: F
Locked rotor torque	: 160 %	Service factor	: 1.00
Breakdown torque	: 190 %	Temperature rise	: 105 K
Rated speed	: 970 rpm	Design	: B

Locked rotor time : 27s (cold) 15s (hot)

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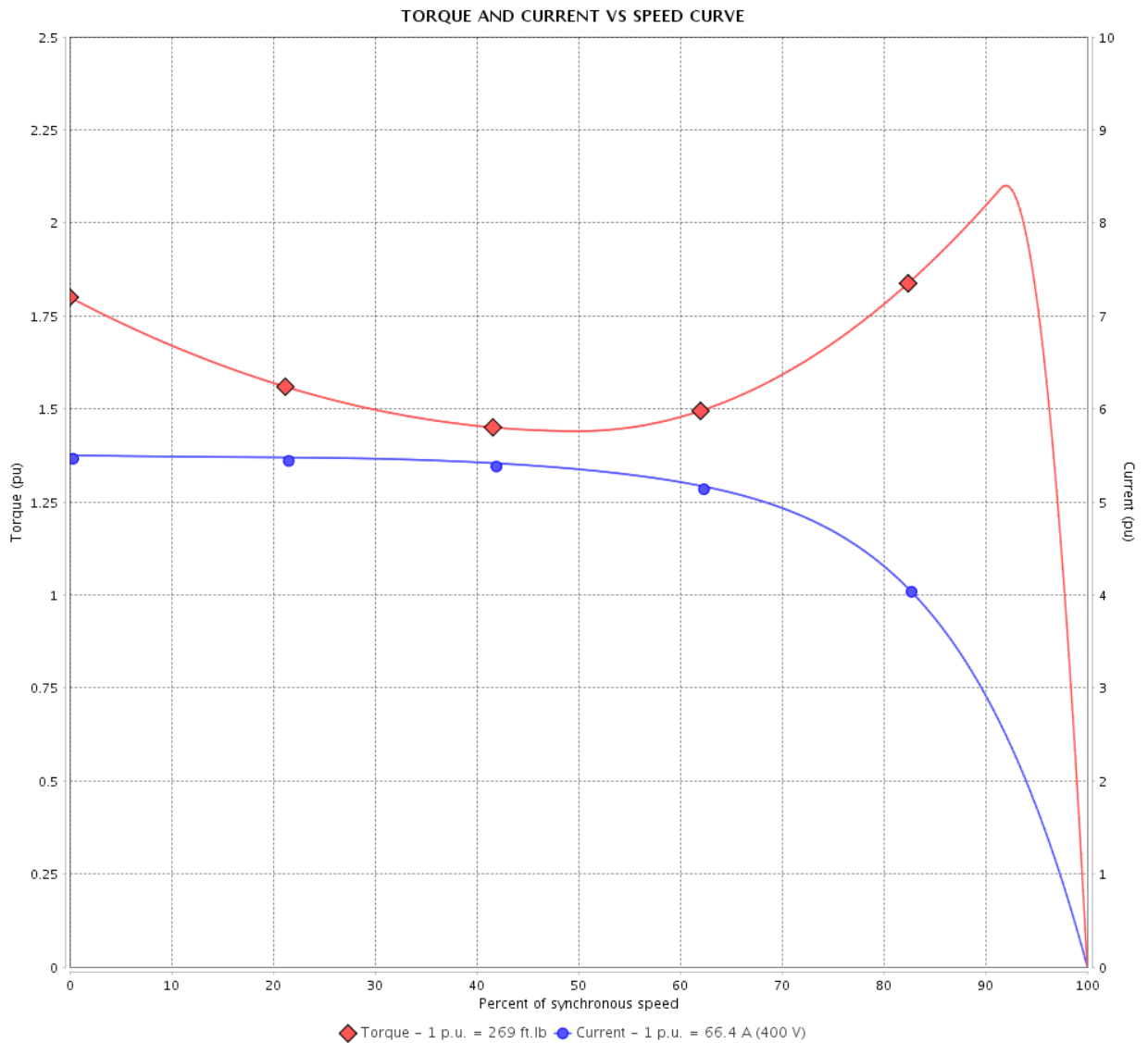
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Performance : 400 V 50 Hz 6P IE2

Rated current	: 66.4 A	Moment of inertia (J)	: 32.4 sq.ft.lb
LRC	: 5.5	Duty cycle	: Cont.(S1)
Rated torque	: 269 ft.lb	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.00
Breakdown torque	: 210 %	Temperature rise	: 80 K
Rated speed	: 975 rpm	Design	: B

Locked rotor time : 27s (cold) 15s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

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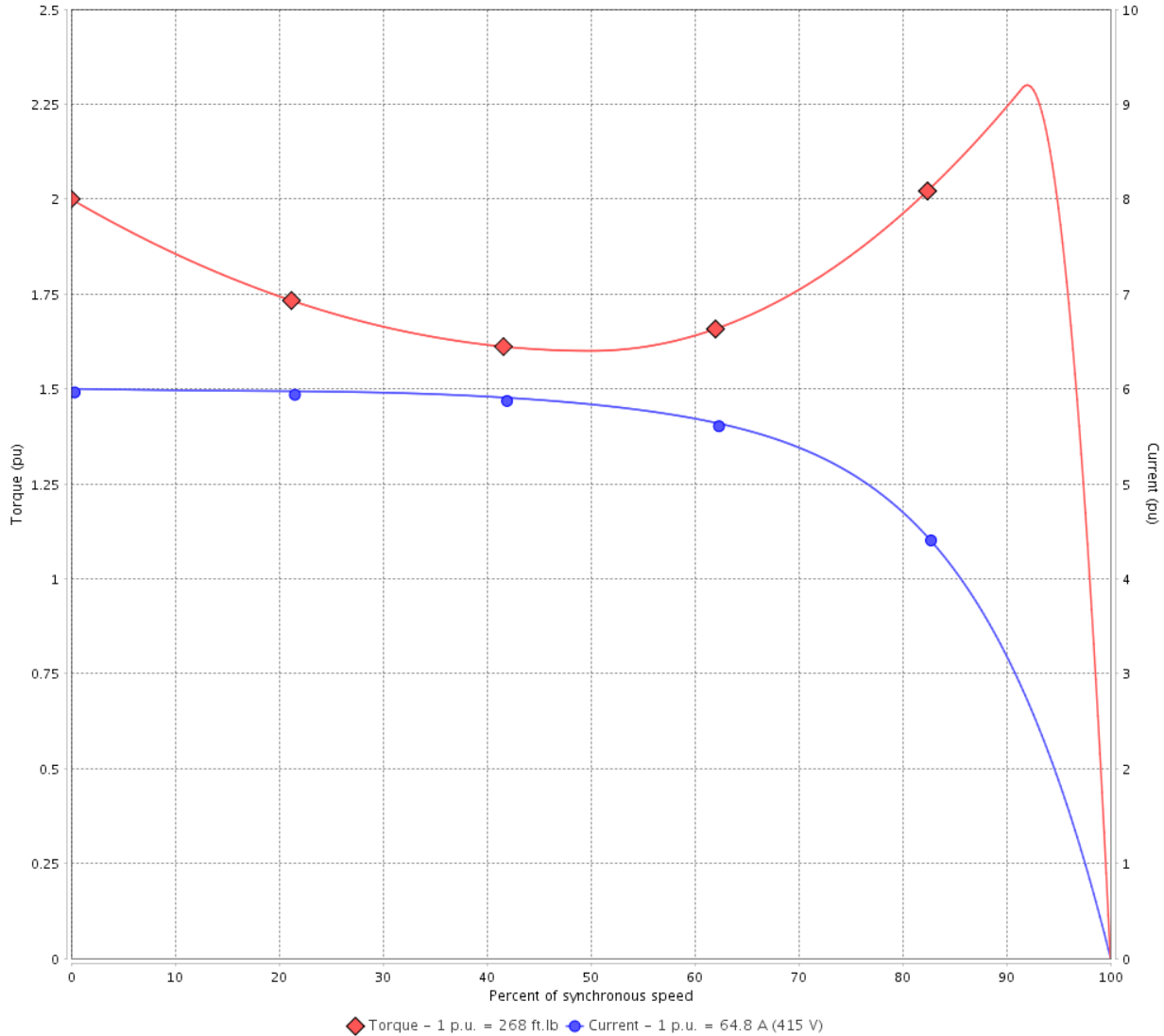
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TORQUE AND CURRENT VS SPEED CURVE



Performance : 415 V 50 Hz 6P IE2

Rated current	: 64.8 A	Moment of inertia (J)	: 32.4 sq.ft.lb
LRC	: 6.0	Duty cycle	: Cont.(S1)
Rated torque	: 268 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.00
Breakdown torque	: 229 %	Temperature rise	: 80 K
Rated speed	: 980 rpm	Design	: B

Locked rotor time : 27s (cold) 15s (hot)

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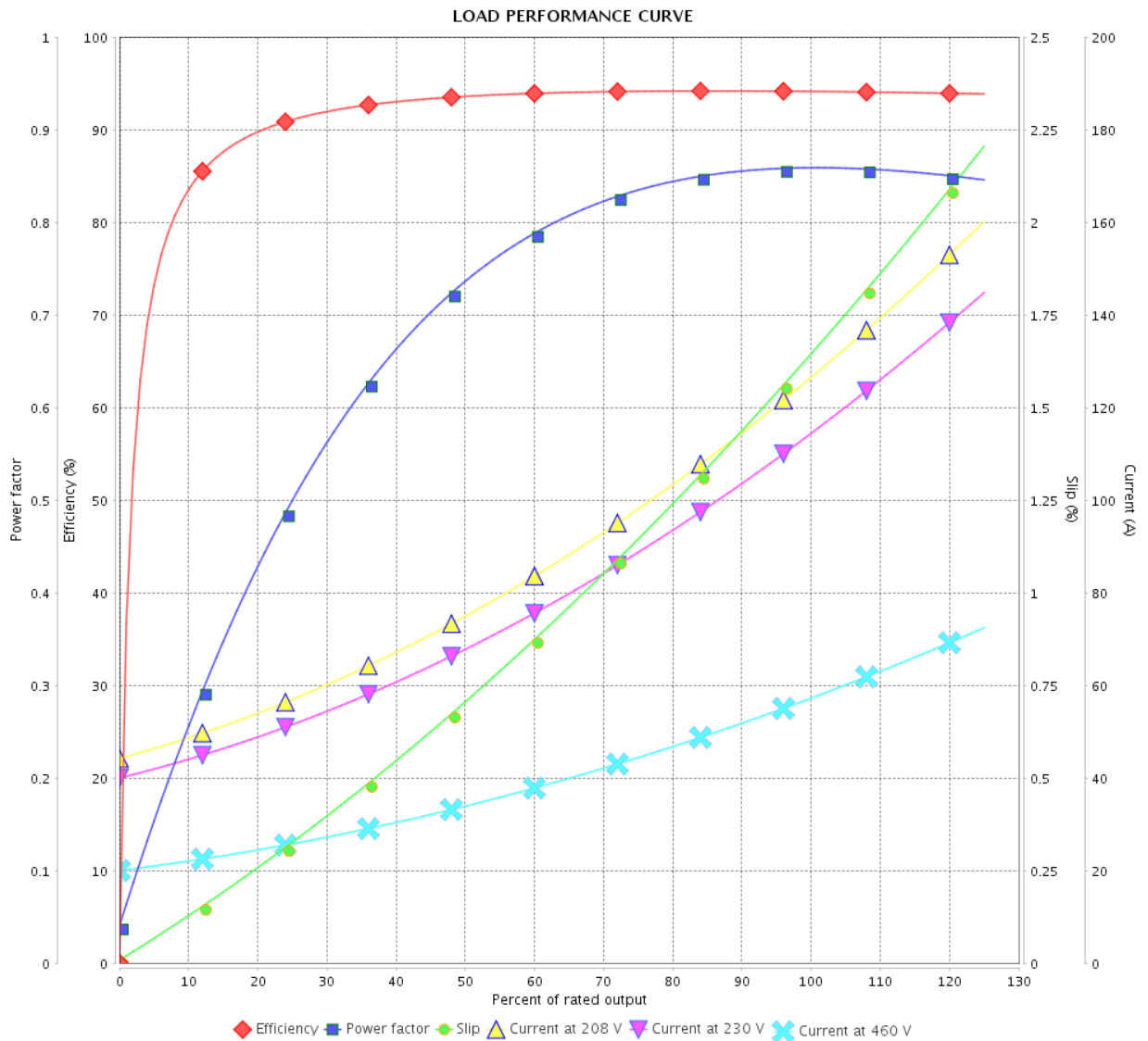


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Performance : 230/460 V 60 Hz 6P

Rated current : 115/57.4 A
 LRC : 6.4
 Rated torque : 223 ft.lb
 Locked rotor torque : 200 %
 Breakdown torque : 240 %
 Rated speed : 1180 rpm

Moment of inertia (J) : 32.4 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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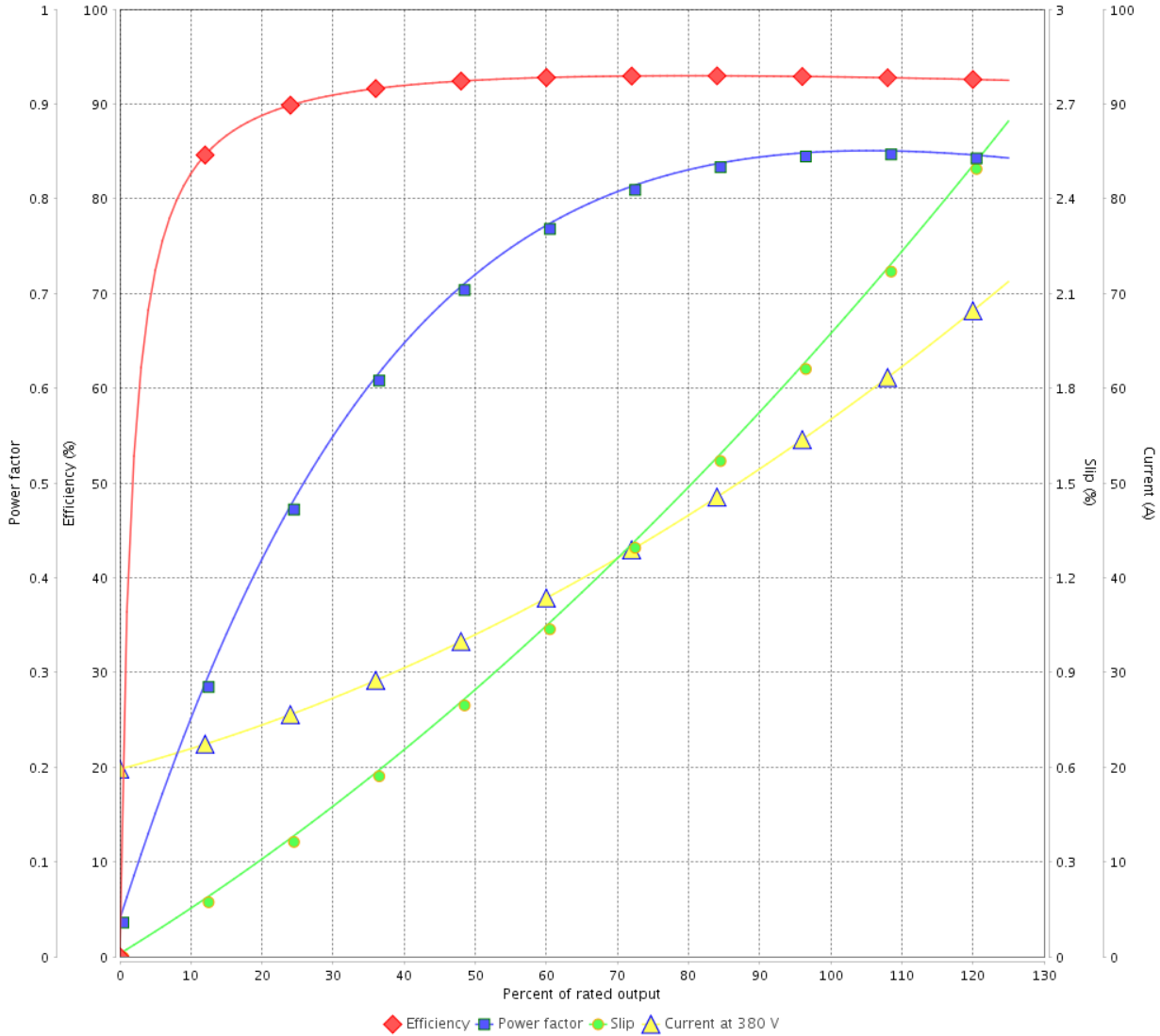
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Performance : 380 V 50 Hz 6P IE3

Rated current : 57.7 A
 LRC : 6.2
 Rated torque : 214 ft.lb
 Locked rotor torque : 200 %
 Breakdown torque : 240 %
 Rated speed : 980 rpm

Moment of inertia (J) : 32.4 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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Three Phase Induction Motor - Squirrel Cage

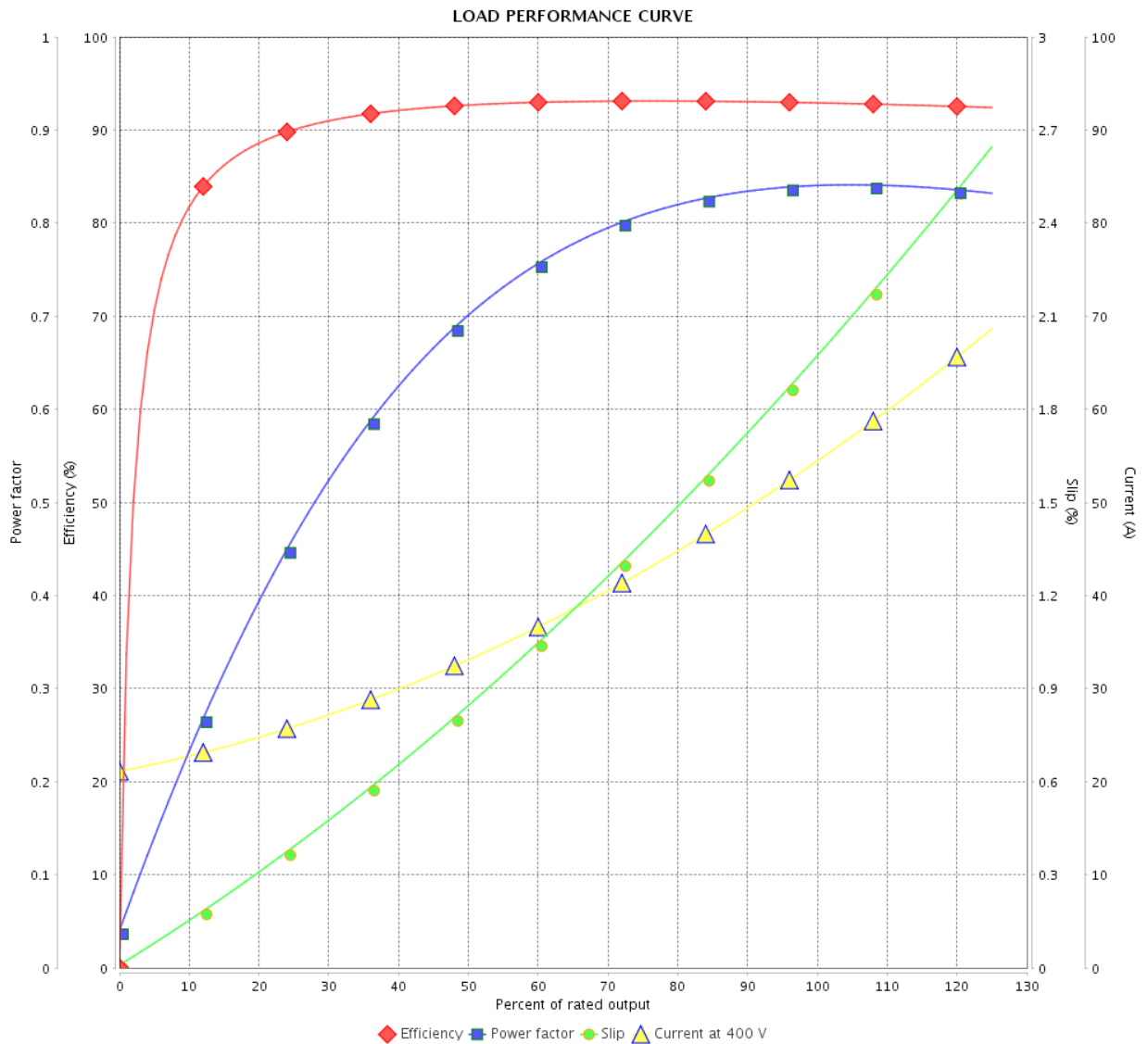


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Performance : 400 V 50 Hz 6P IE3

Rated current : 55.5 A
 LRC : 6.8
 Rated torque : 214 ft.lb
 Locked rotor torque : 229 %
 Breakdown torque : 260 %
 Rated speed : 980 rpm

Moment of inertia (J) : 32.4 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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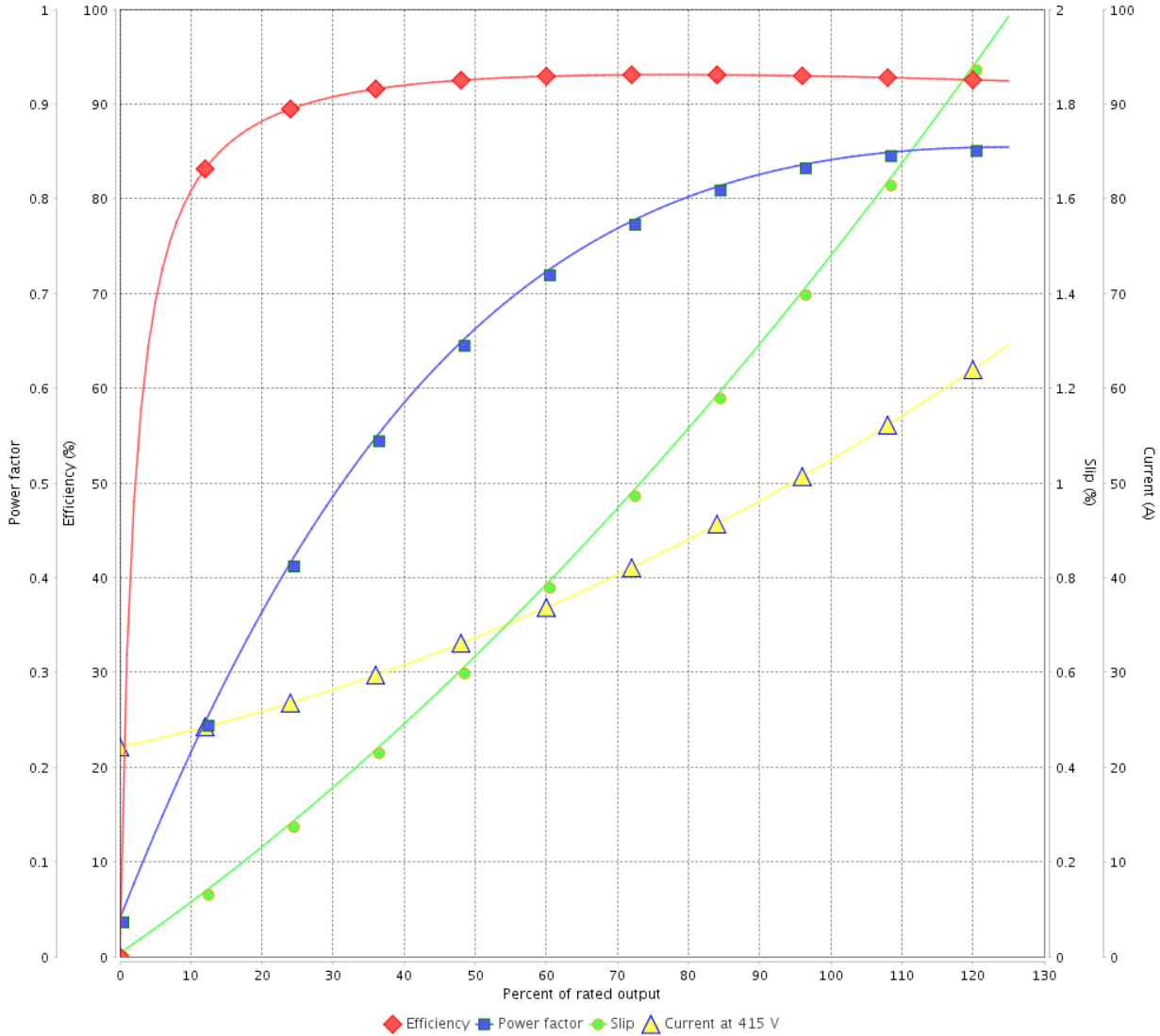
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Performance : 415 V 50 Hz 6P IE3

Rated current : 53.5 A
 LRC : 7.4
 Rated torque : 213 ft.lb
 Locked rotor torque : 250 %
 Breakdown torque : 290 %
 Rated speed : 985 rpm

Moment of inertia (J) : 32.4 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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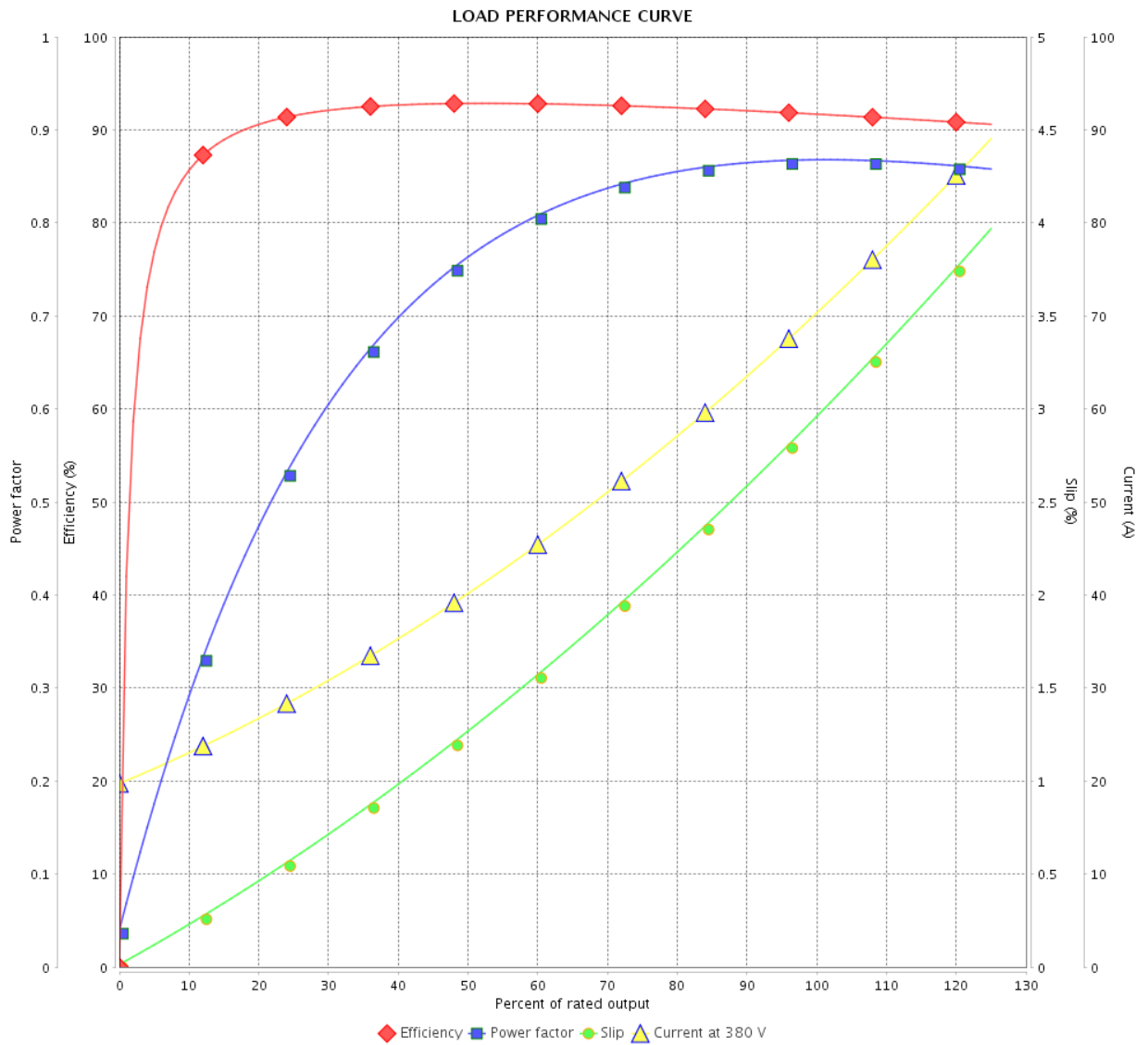


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Performance : 380 V 50 Hz 6P IE1

Rated current : 70.5 A
 LRC : 4.9
 Rated torque : 271 ft.lb
 Locked rotor torque : 160 %
 Breakdown torque : 190 %
 Rated speed : 970 rpm

Moment of inertia (J) : 32.4 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : B

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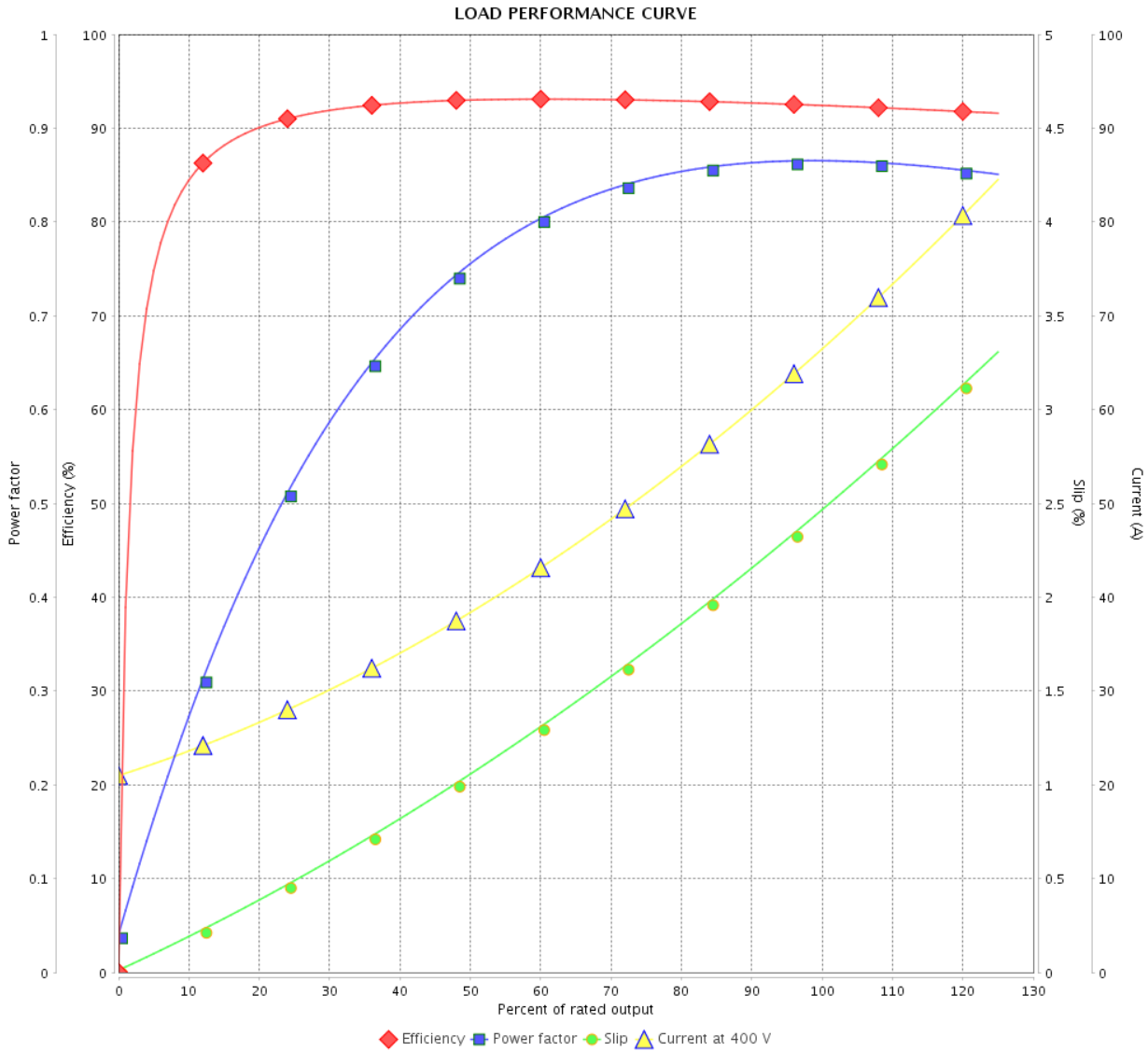


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Performance : 400 V 50 Hz 6P IE2

Rated current : 66.4 A
 LRC : 5.5
 Rated torque : 269 ft.lb
 Locked rotor torque : 180 %
 Breakdown torque : 210 %
 Rated speed : 975 rpm

Moment of inertia (J) : 32.4 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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Three Phase Induction Motor - Squirrel Cage

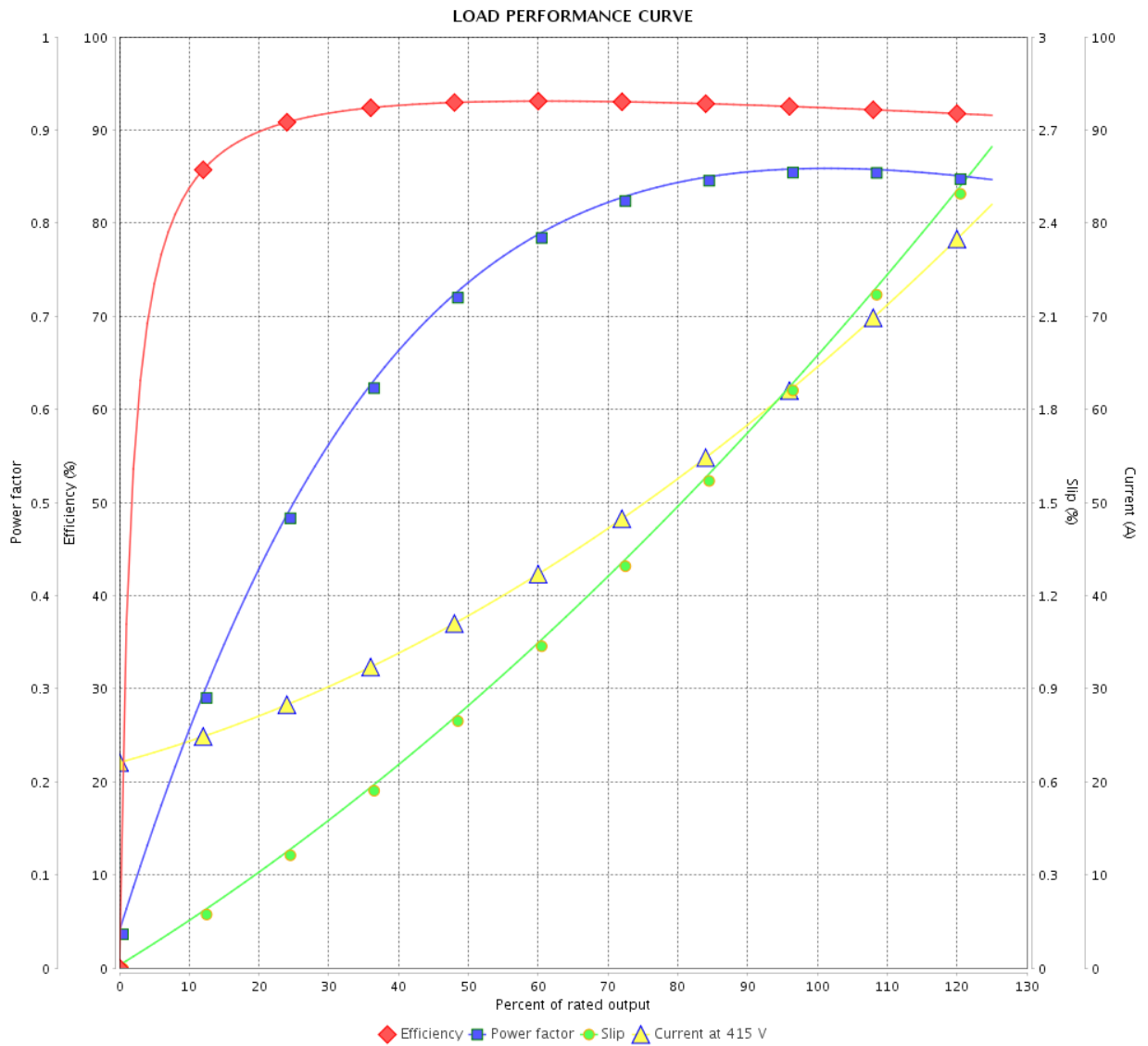


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Performance : 415 V 50 Hz 6P IE2

Rated current : 64.8 A
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Moment of inertia (J) : 32.4 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
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THERMAL LIMIT CURVE



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Performance : 230/460 V 60 Hz 6P

Rated current	: 115/57.4 A	Moment of inertia (J)	: 32.4 sq.ft.lb
LRC	: 6.4	Duty cycle	: Cont.(S1)
Rated torque	: 223 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.25
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 1180 rpm	Design	: B

Heating constant

Cooling constant

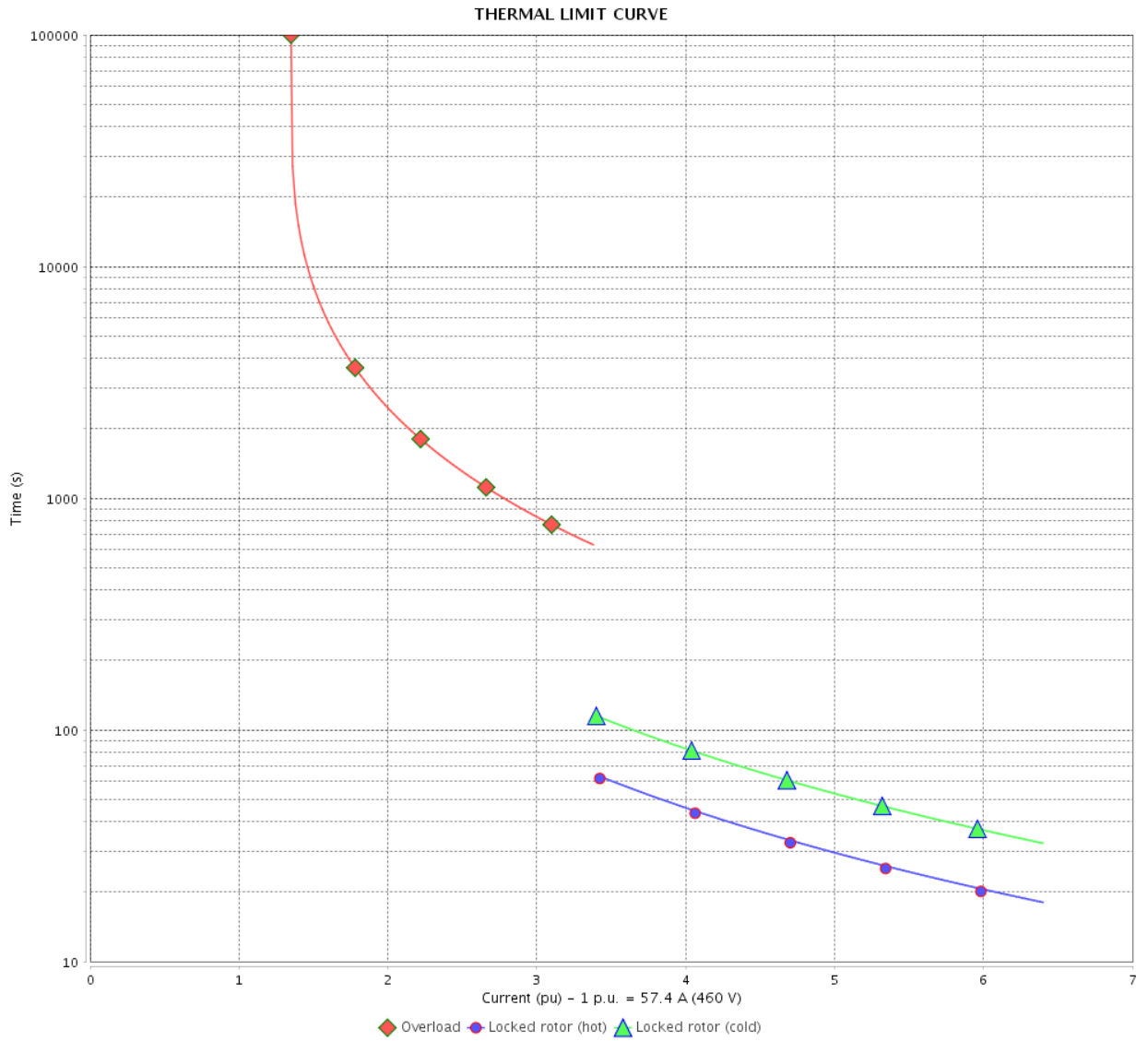
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Three Phase Induction Motor - Squirrel Cage



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Performance : 380 V 50 Hz 6P IE3

Rated current	: 57.7 A	Moment of inertia (J)	: 32.4 sq.ft.lb
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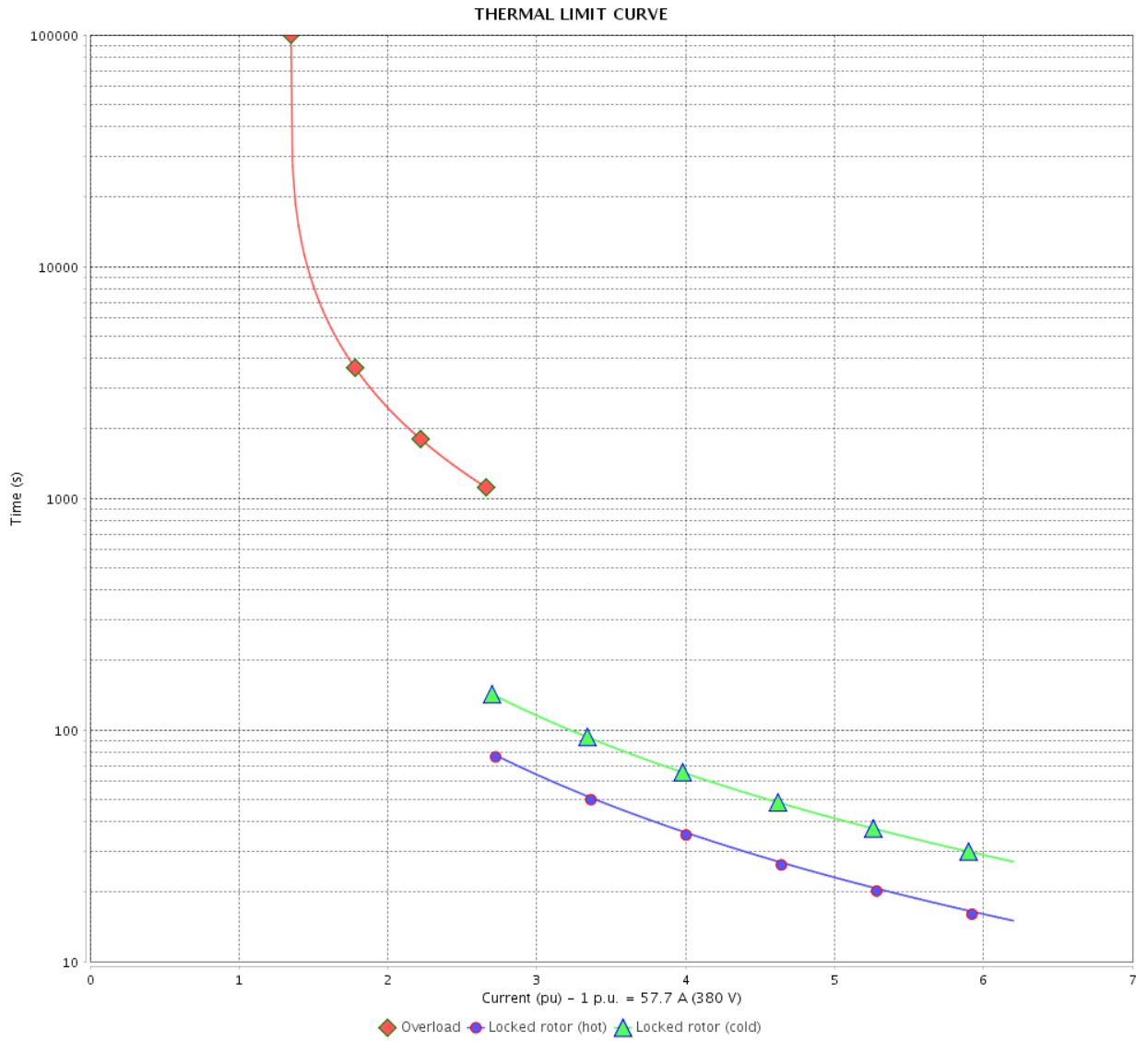
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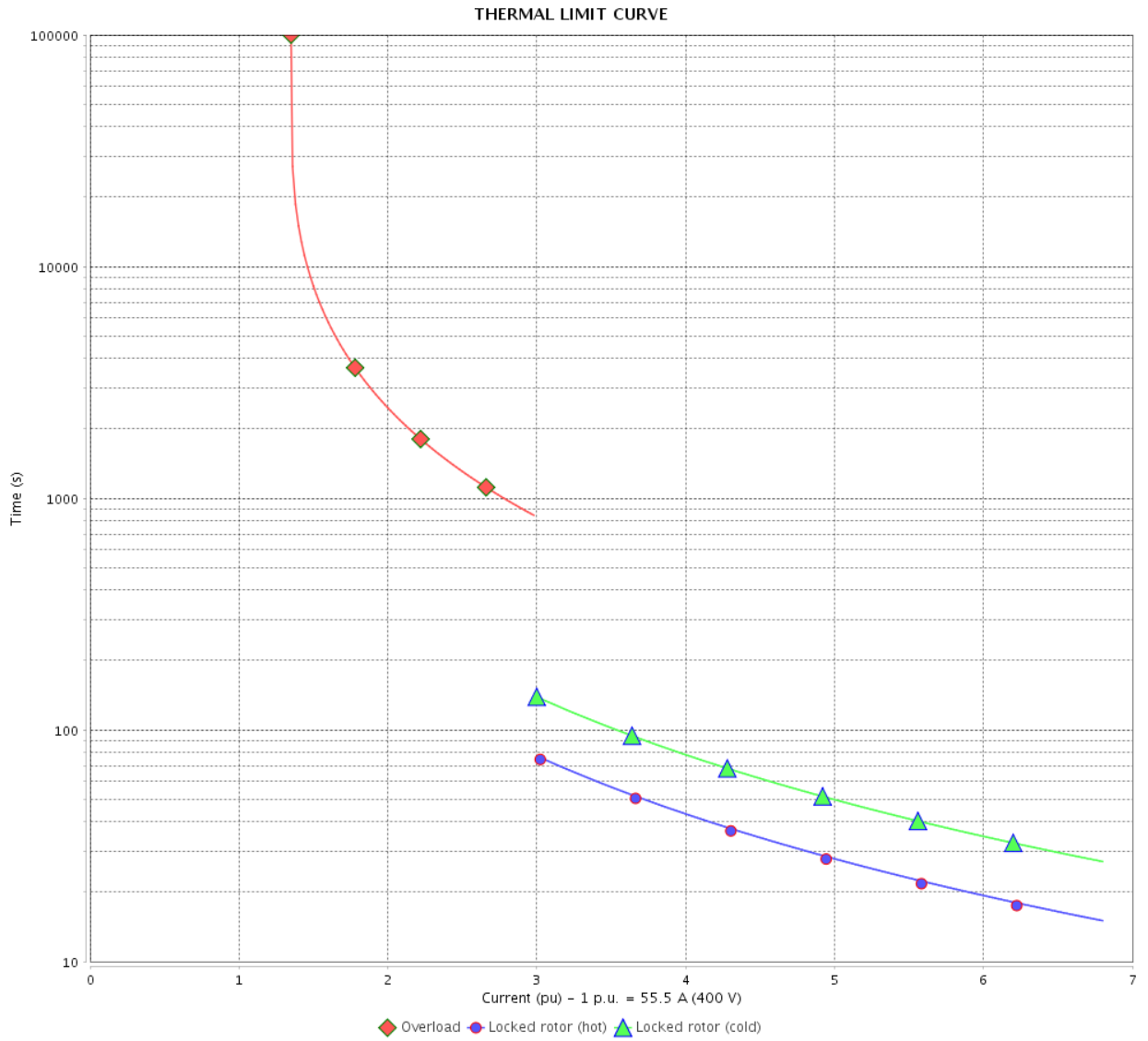
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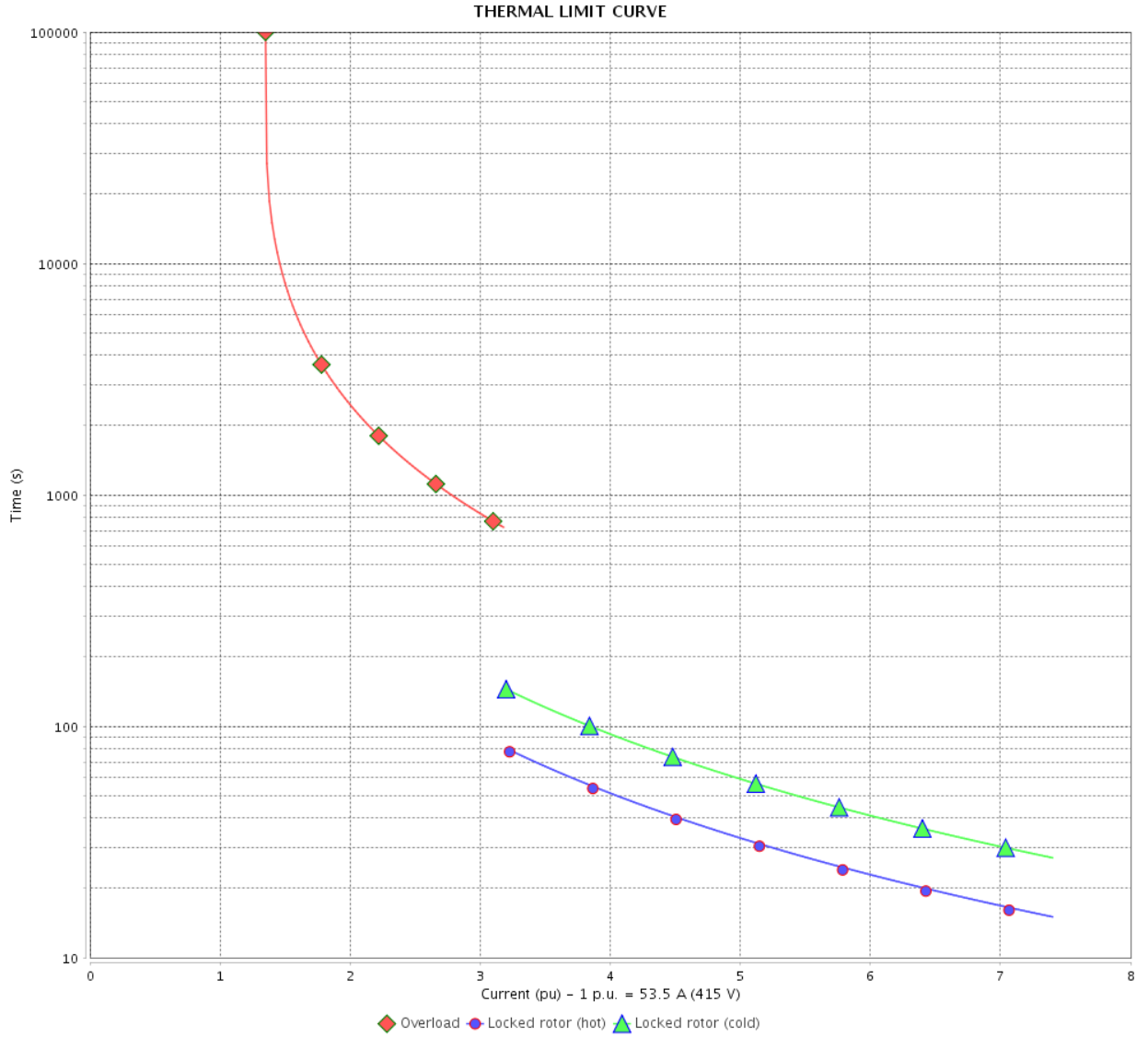
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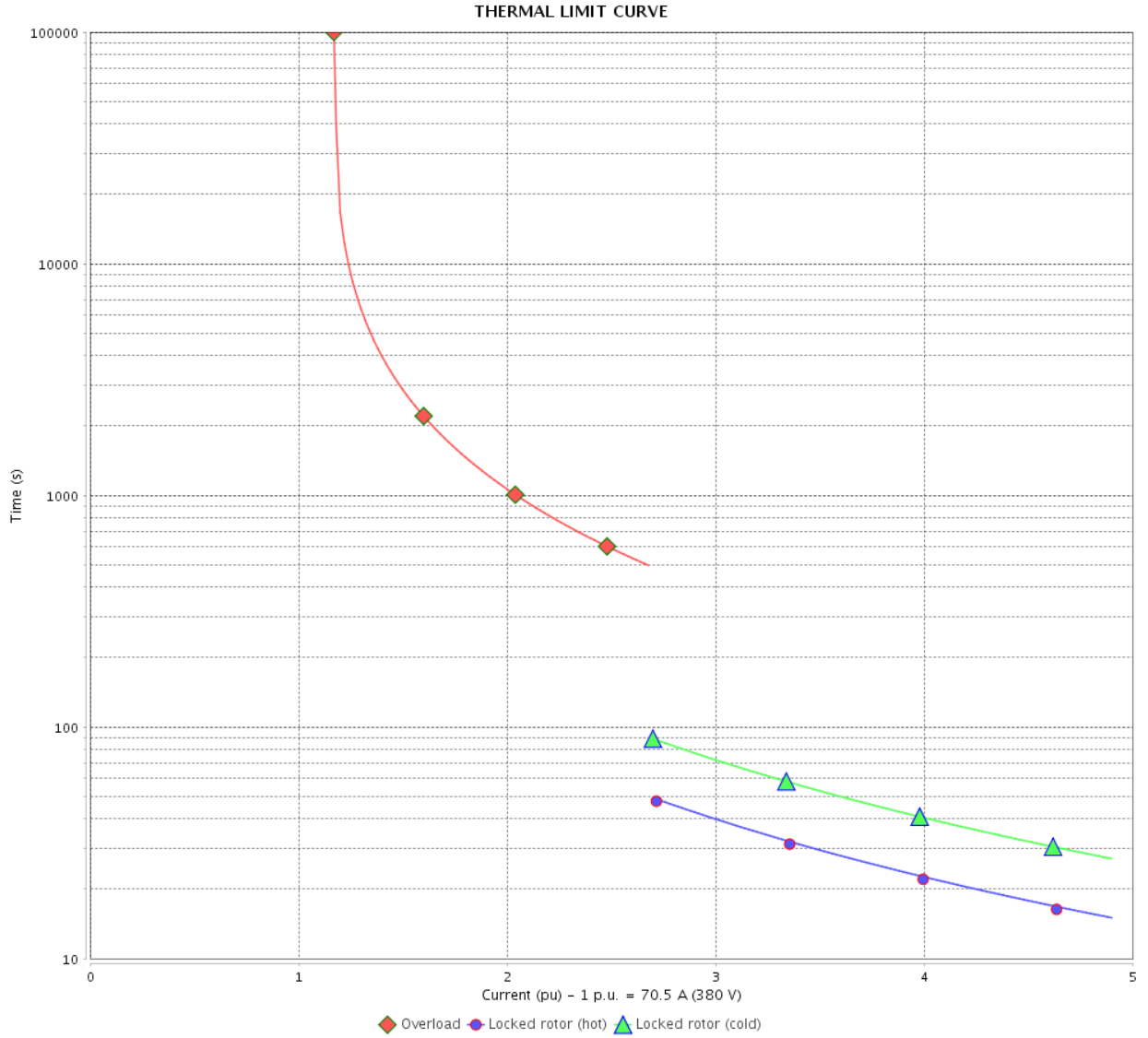
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Locked rotor torque	: 180 %	Service factor	: 1.00
Breakdown torque	: 210 %	Temperature rise	: 80 K
Rated speed	: 975 rpm	Design	: B

Heating constant

Cooling constant

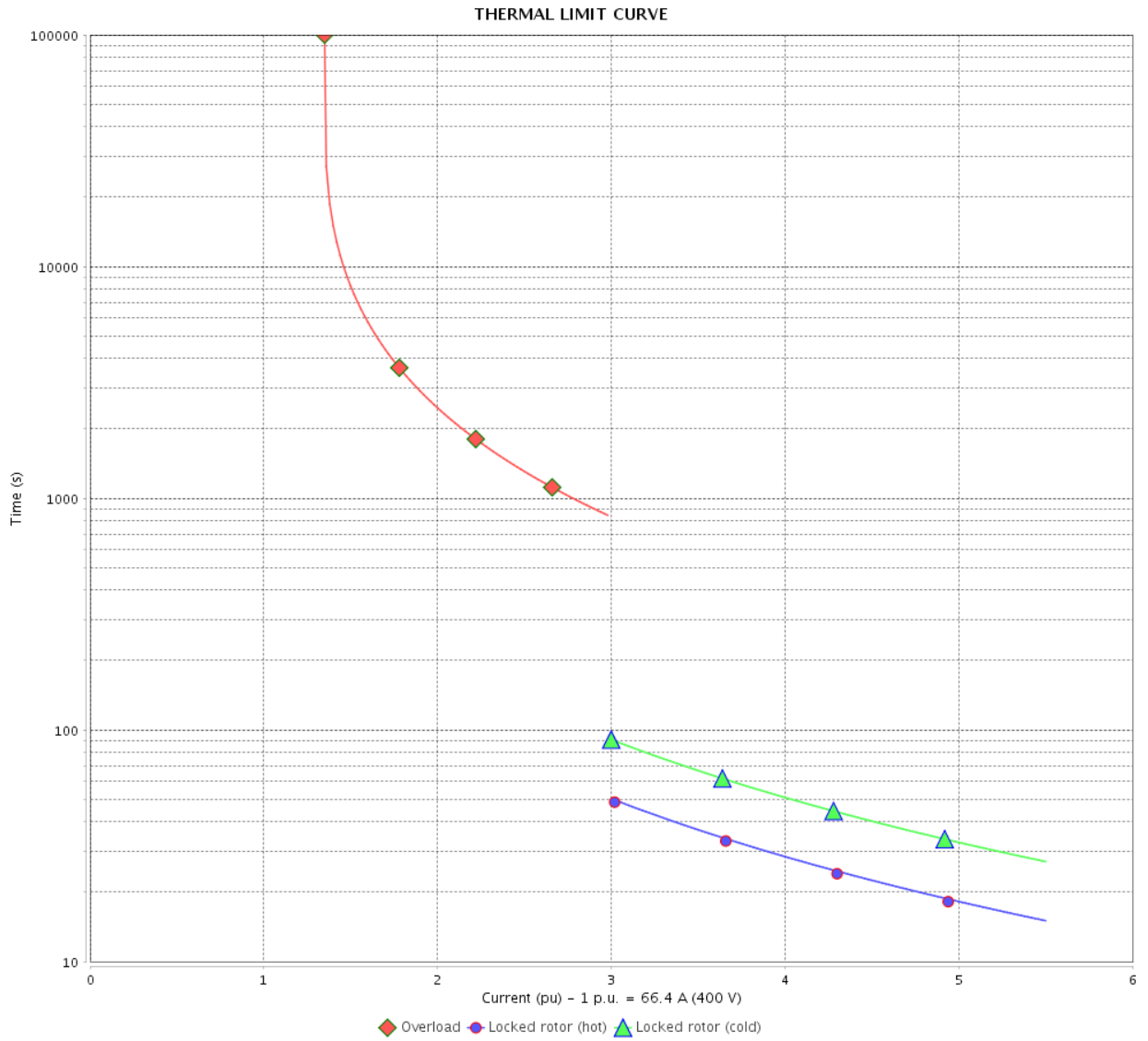
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	12/04/2022		26 / 36	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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Performed by		Page		Revision
Checked by		27 / 36		
Date		12/04/2022		

THERMAL LIMIT CURVE



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase
Product code : 12769962
Catalog # : 05012ET3E365T-W22G

Performance : 415 V 50 Hz 6P IE2

Rated current	: 64.8 A	Moment of inertia (J)	: 32.4 sq.ft.lb
LRC	: 6.0	Duty cycle	: Cont.(S1)
Rated torque	: 268 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.00
Breakdown torque	: 229 %	Temperature rise	: 80 K
Rated speed	: 980 rpm	Design	: B

Heating constant

Cooling constant

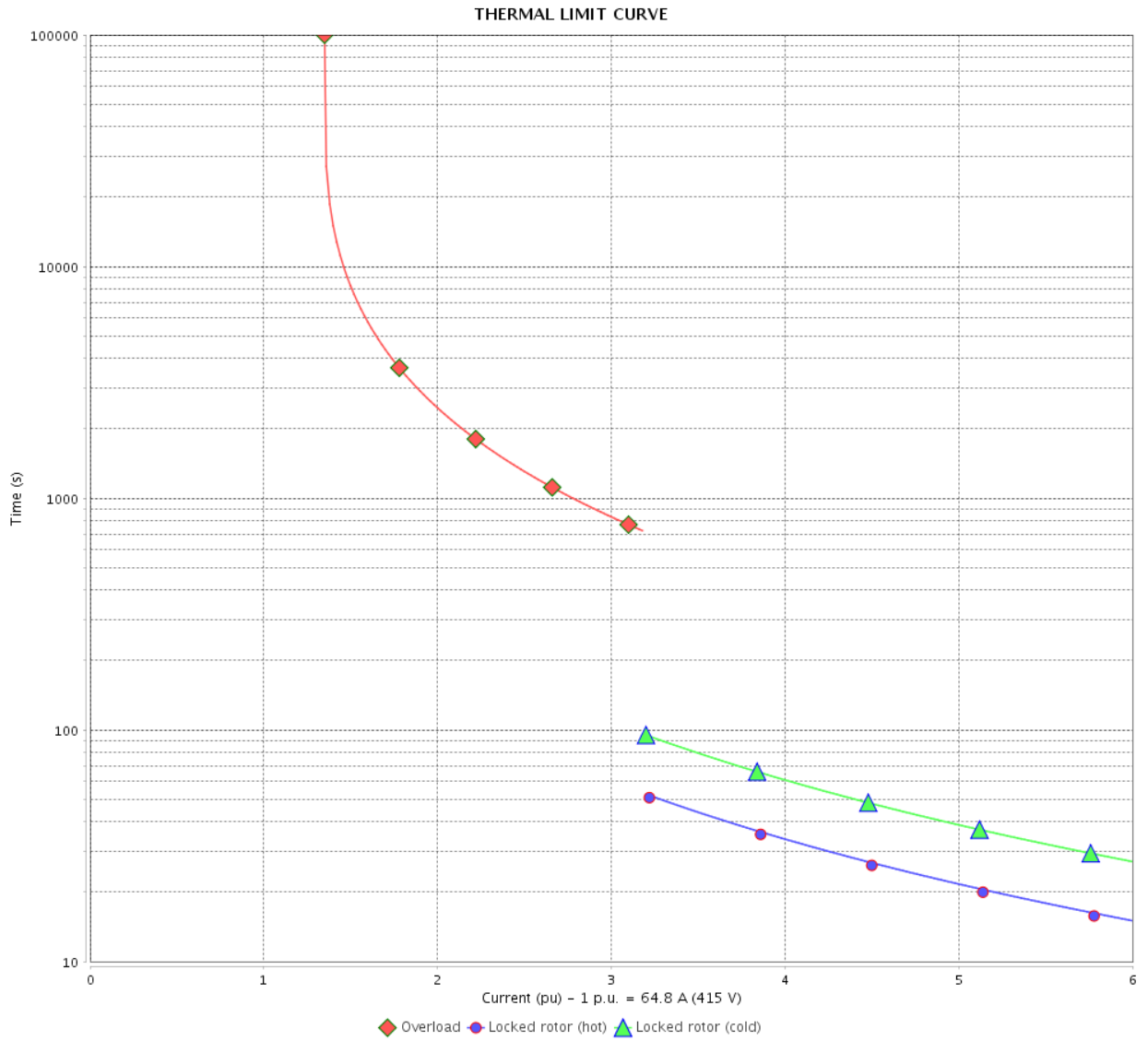
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	12/04/2022		28 / 36	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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Performed by				
Checked by				
Date				
			Page	Revision
			29 / 36	

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



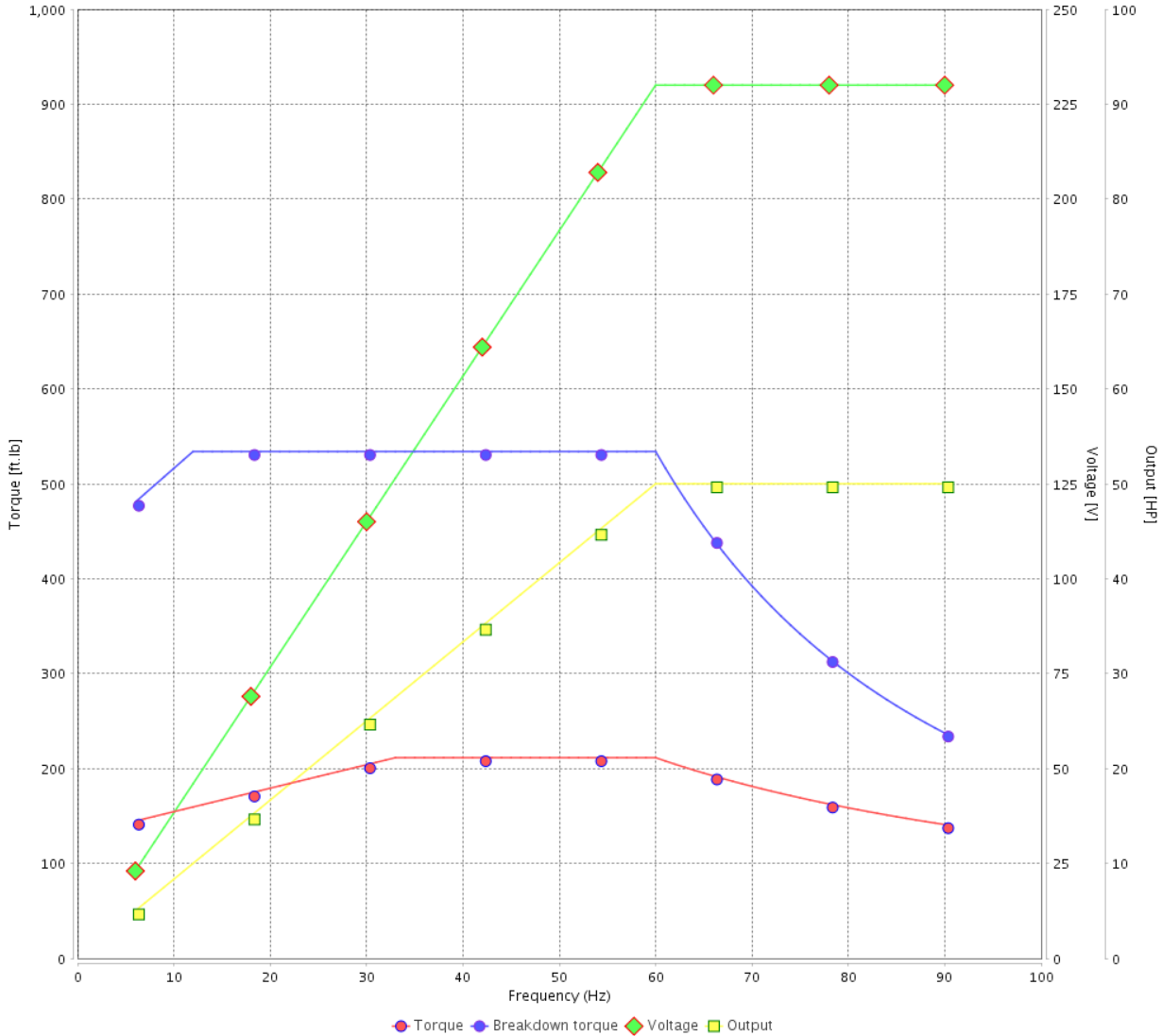
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12769962

Catalog # : 05012ET3E365T-W22G

VFD OPERATION CURVE



Performance : 230/460 V 60 Hz 6P

Rated current : 115/57.4 A
 LRC : 6.4
 Rated torque : 223 ft.lb
 Locked rotor torque : 200 %
 Breakdown torque : 240 %
 Rated speed : 1180 rpm

Moment of inertia (J) : 32.4 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 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

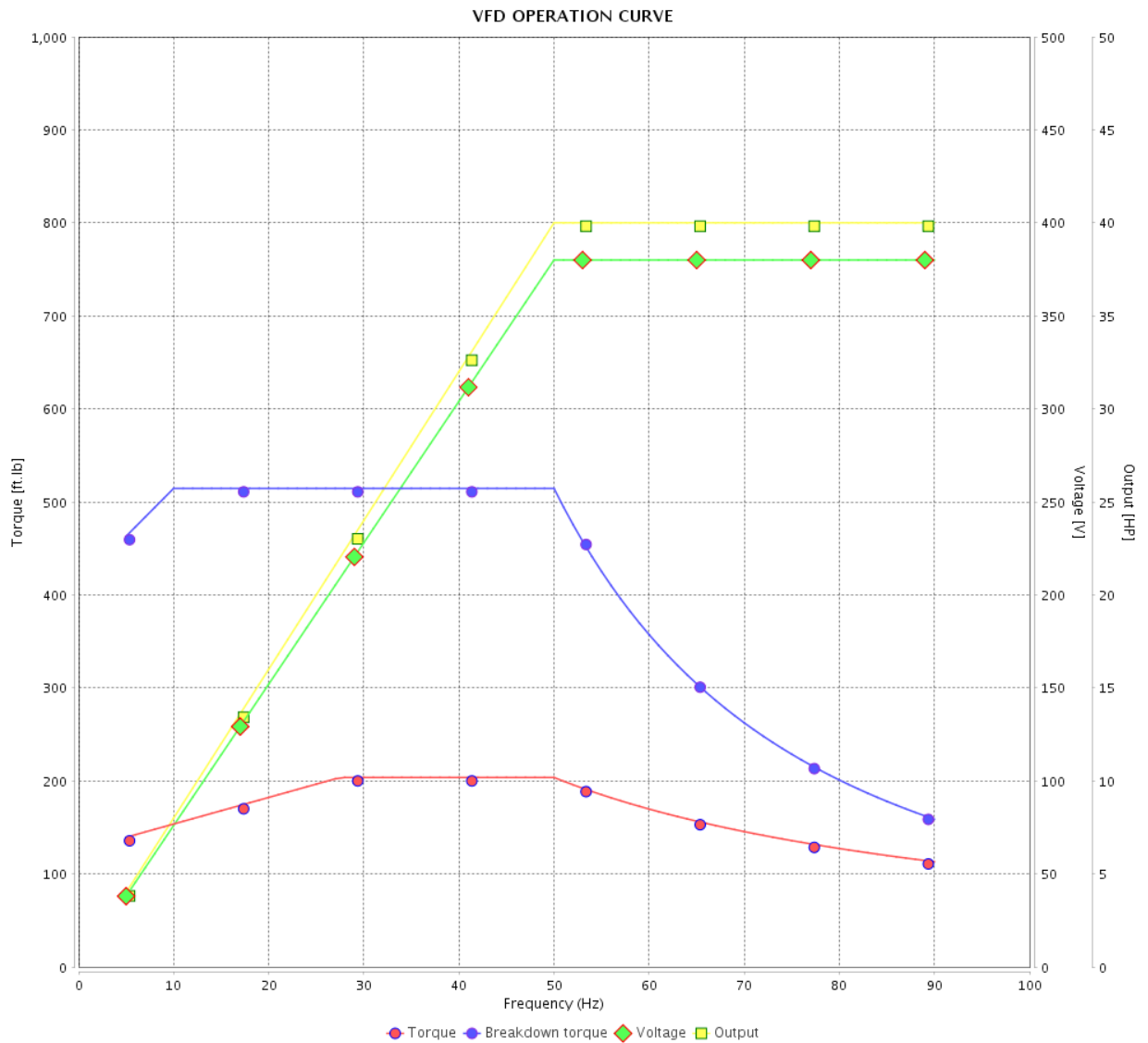


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12769962

Catalog # : 05012ET3E365T-W22G



Performance : 380 V 50 Hz 6P IE3

Rated current : 57.7 A
 LRC : 6.2
 Rated torque : 214 ft.lb
 Locked rotor torque : 200 %
 Breakdown torque : 240 %
 Rated speed : 980 rpm

Moment of inertia (J) : 32.4 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



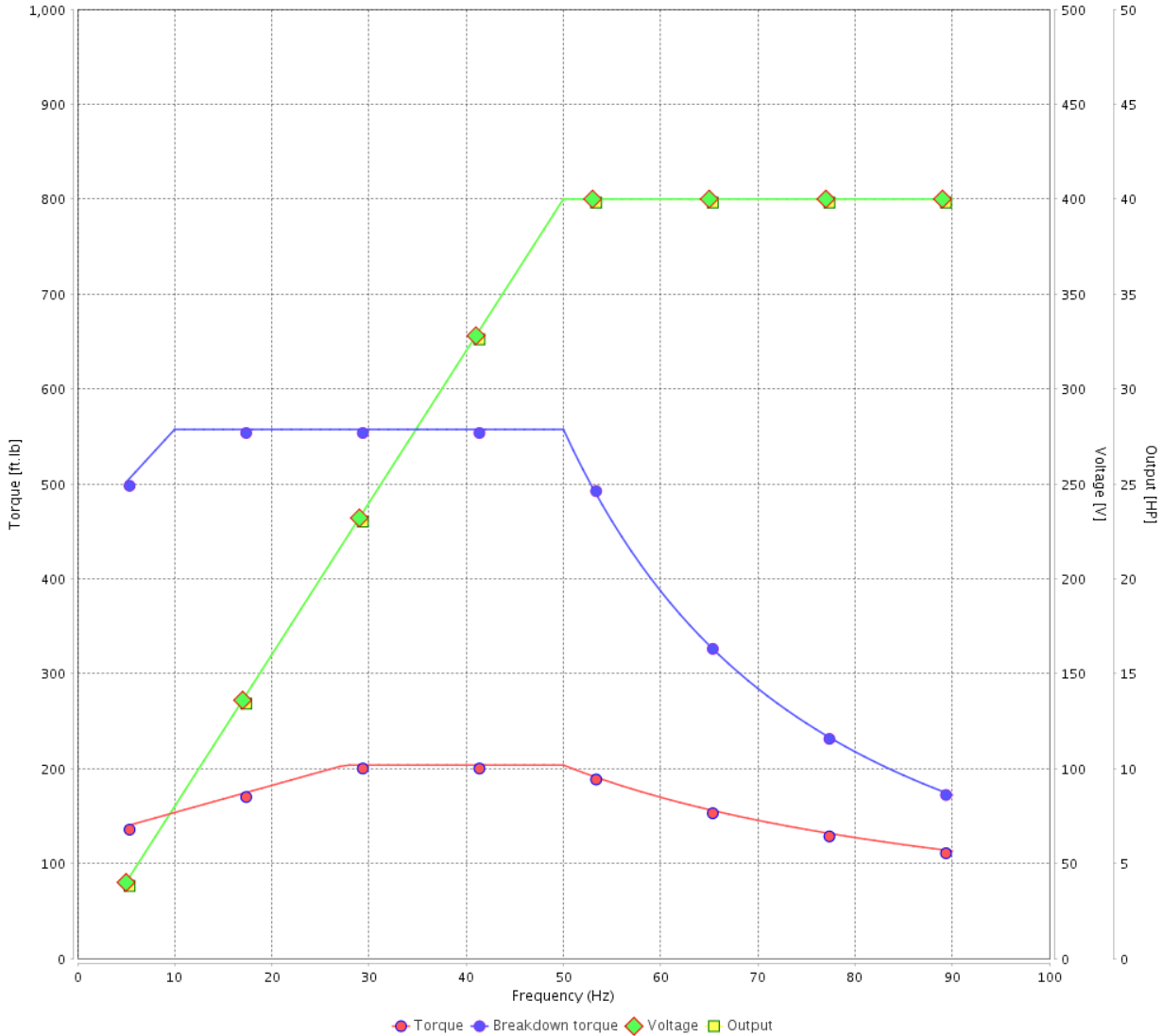
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12769962

Catalog # : 05012ET3E365T-W22G

VFD OPERATION CURVE



Performance : 400 V 50 Hz 6P IE3

Rated current : 55.5 A
 LRC : 6.8
 Rated torque : 214 ft.lb
 Locked rotor torque : 229 %
 Breakdown torque : 260 %
 Rated speed : 980 rpm

Moment of inertia (J) : 32.4 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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Date	12/04/2022			

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

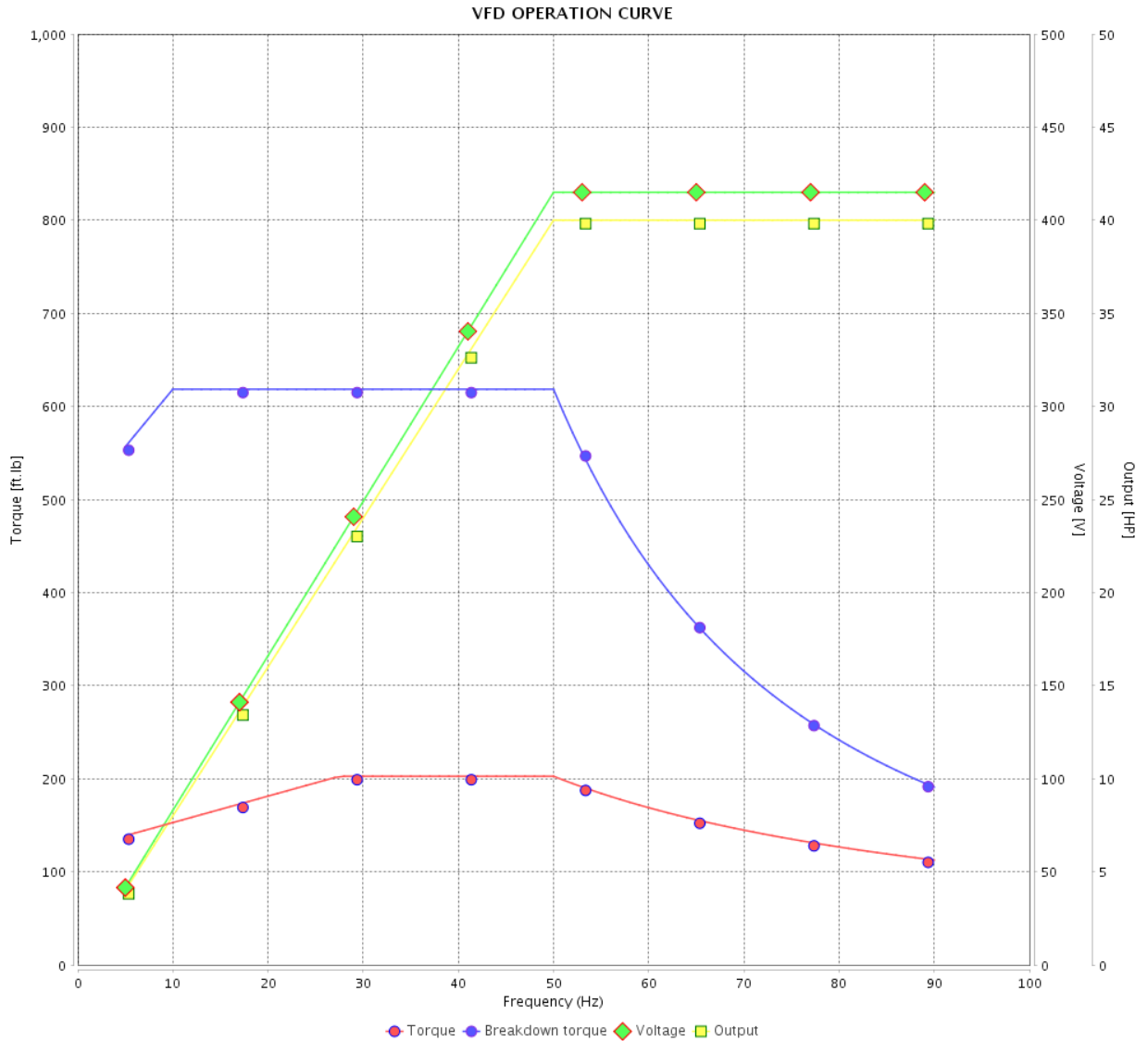


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12769962

Catalog # : 05012ET3E365T-W22G



Performance : 415 V 50 Hz 6P IE3

Rated current : 53.5 A
 LRC : 7.4
 Rated torque : 213 ft.lb
 Locked rotor torque : 250 %
 Breakdown torque : 290 %
 Rated speed : 985 rpm

Moment of inertia (J) : 32.4 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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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



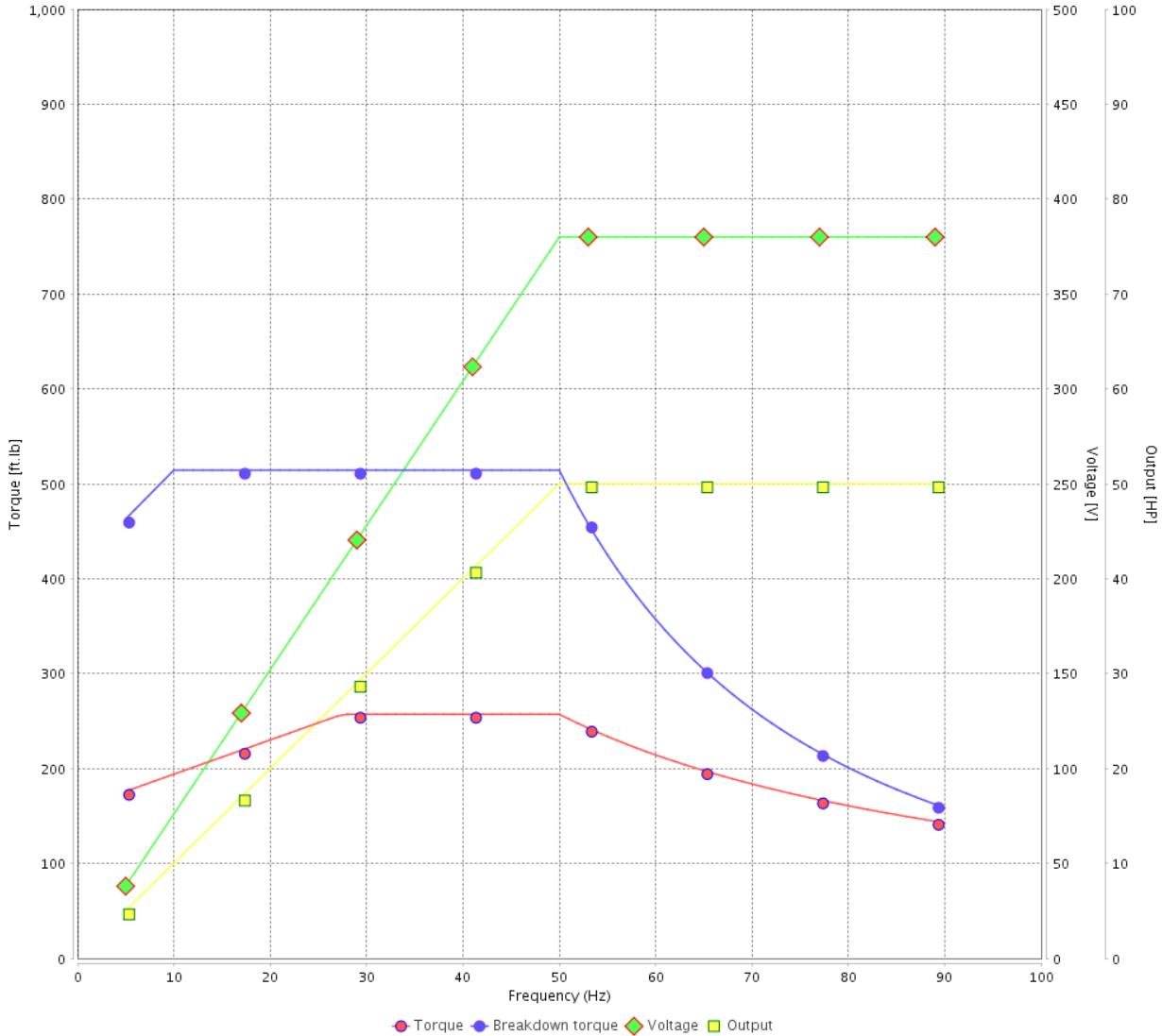
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12769962

Catalog # : 05012ET3E365T-W22G

VFD OPERATION CURVE



Performance : 380 V 50 Hz 6P IE1

Rated current : 70.5 A
 LRC : 4.9
 Rated torque : 271 ft.lb
 Locked rotor torque : 160 %
 Breakdown torque : 190 %
 Rated speed : 970 rpm

Moment of inertia (J) : 32.4 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : B

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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

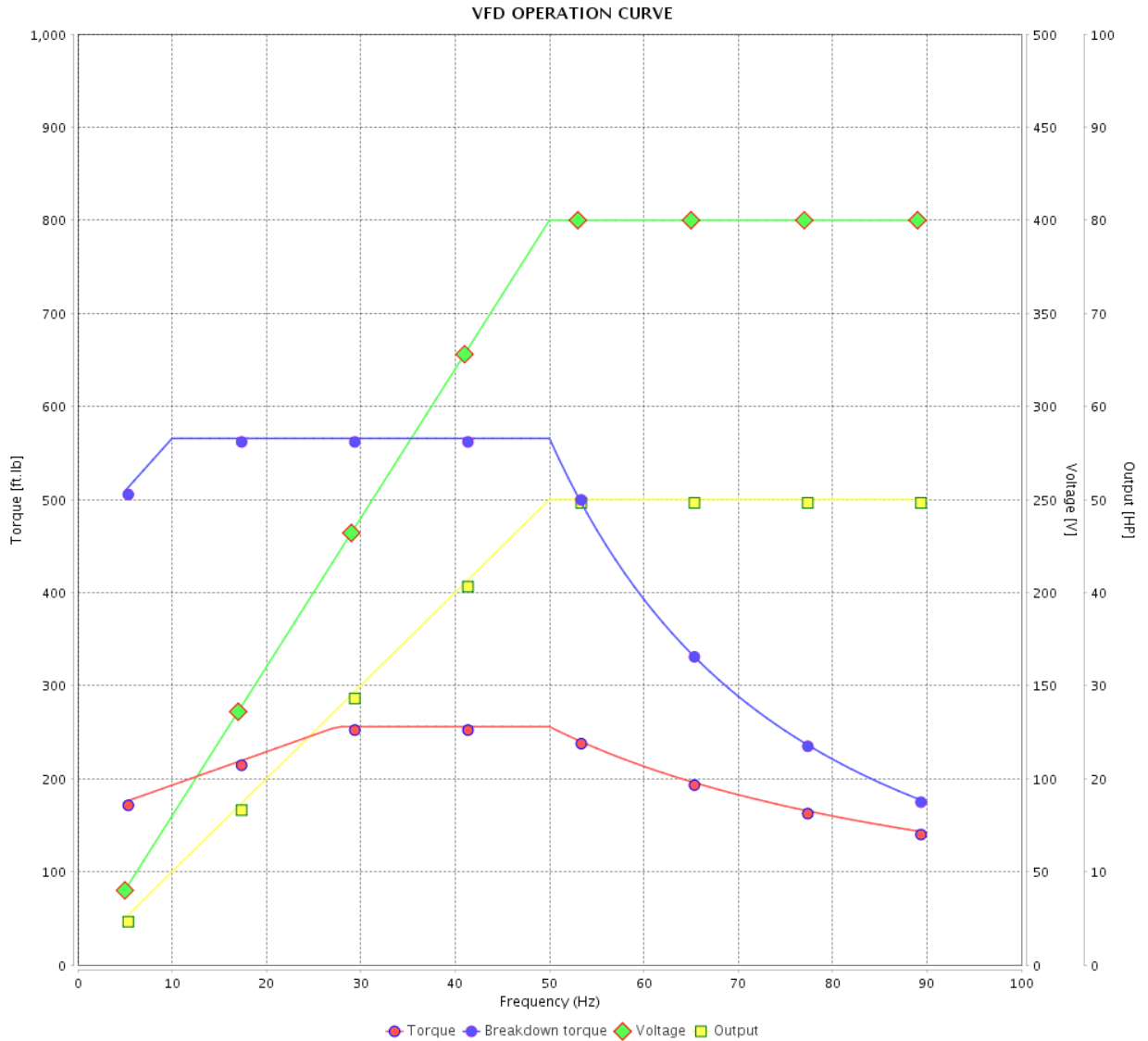


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12769962

Catalog # : 05012ET3E365T-W22G



Performance : 400 V 50 Hz 6P IE2

Rated current : 66.4 A
 LRC : 5.5
 Rated torque : 269 ft.lb
 Locked rotor torque : 180 %
 Breakdown torque : 210 %
 Rated speed : 975 rpm

Moment of inertia (J) : 32.4 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



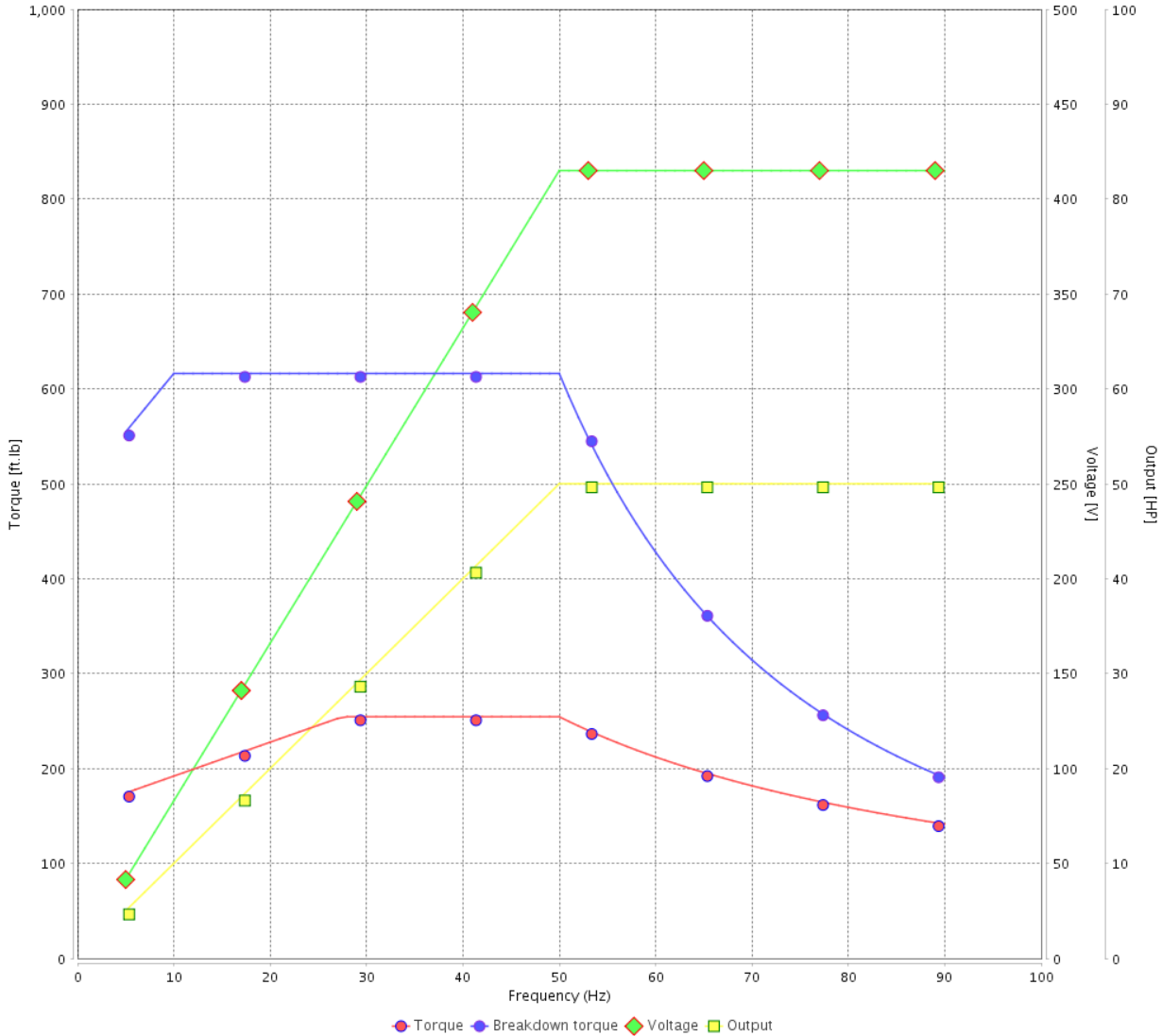
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12769962

Catalog # : 05012ET3E365T-W22G

VFD OPERATION CURVE



Performance : 415 V 50 Hz 6P IE2

Rated current : 64.8 A
 LRC : 6.0
 Rated torque : 268 ft.lb
 Locked rotor torque : 200 %
 Breakdown torque : 229 %
 Rated speed : 980 rpm

Moment of inertia (J) : 32.4 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

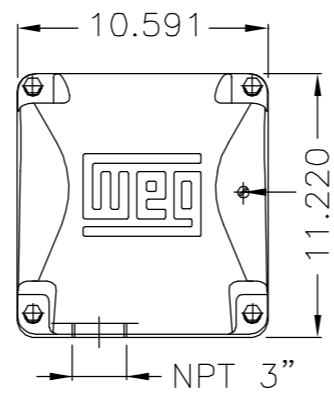
Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page	Revision
Checked by				
Date				

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

Dimensões em polegadas
Dimensions in inches

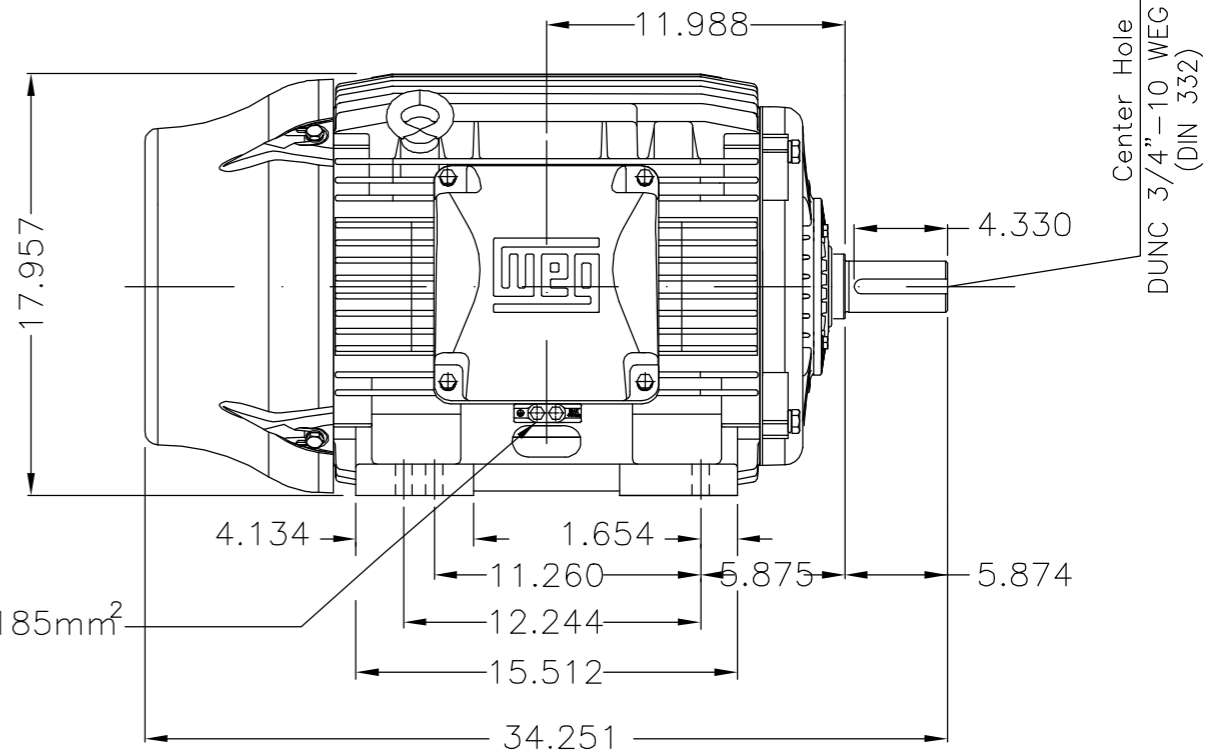
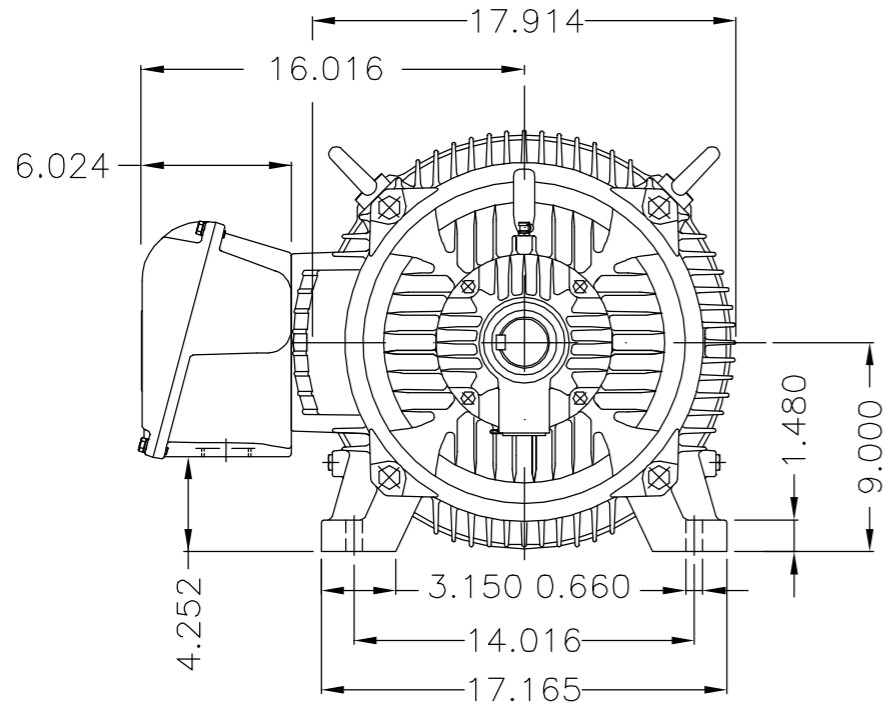
CERTIFIED WEG MOTORES
Certified document.
Not subject to changes.

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



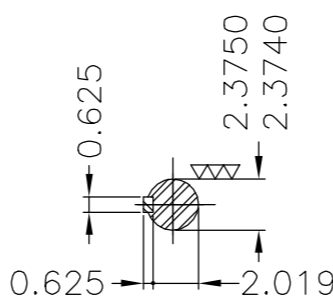
Main terminal box

Grounding for leads 25-50mm²



Center Hole
DUNC 3/4"-10 WEG TBG12
(DIN 332)

Grounding for leads 25-185mm²



DE Shaft End

- Kit porta escova de aterramento AEGIS SGR-82.1-3MFH / Brush holder kit AEGIS SGR-82.1-3MFH
- Anel interno especial de fixação do rolamento dianteiro / Special internal fastening bearing cap of DE bearing
- 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 - WEC

500001533404		ALTERADO CONFORME CLAIM 415315260	RBOECK	CLEBERP	CLEBERP	15.01.2019	04
500001293996		ATUALIZADO COTA H-H	AFILHO	MENSOR	MENSOR	10.04.2017	03
ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	SCARMAGNANI	THREE PHASE W22 MOTOR - NEMA PREMIUM EFF FRAME 364/5T IP55	10002805139				
CHECKED	DAYANAR		000	04			
RELEASED	DAYANAR						
REL DT	09.04.2014	WMO	JARAGUA DO SUL	ENGENHARIA DE PRODUTO	SHEET	1 / 1	

50 HP	06 Poles	60Hz	413384811/0	MEC	B
40 HP	06 Poles	60Hz	413384809/0	MEC	A



Mod.TE1BFOXON
CC029A

MODEL 05012ET3E365T-W22G

Inverter Duty Motor
Severe Duty

60Hz: For use on PWM: VT 1000:1,
CT 20:1, 1.00SF

MADE IN BRAZIL
12769962

PH3 60Hz Fr. 364/5T 1000m.a.s.l. IP55 TEFC 902lb

V 230/460

A 115/57.4

HP 50

kW 37

SF 1.25

SFA 144/71.8

RPM 1180

PF 0.86

AMB 40°C

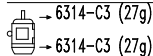
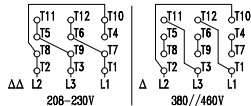
INS cl. F DT80K NEMA NOM EFF 94.1%

DUTY CONT.

DES B Code G

USABLE @208V 127A SF 1.10 SFA 140

50HP 37kW 50Hz 380V 70.5A 970RPM SF 1.00 EFF 91.7% (IE1)



MOBIL POLYREX EM (17000h)

