

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer							
Product line		: NEMA Premium Efficiency Three-Phase		Product code :		11568741	
				Catalog # :		06009ET3E405T-W22	
Frame		: 404/5T		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		: 1151 lb	
Protection degree		: IP55		Moment of inertia (J)		: 40.2 sq.ft.lb	
Design		: B					
Output [HP]	60	50	50	50	60	60	60
Poles	8	8	8	8	8	8	8
Frequency [Hz]	60	50	50	50	50	50	50
Rated voltage [V]	230/460	380	400	415	380	400	415
Rated current [A]	146/73.0	72.9	70.9	69.2	89.2	85.0	82.9
L. R. Amperes [A]	949/475	445	475	505	455	485	514
LRC [A]	6.5x(Code H)	6.1x(Code G)	6.7x(Code H)	7.3x(Code J)	5.1x(Code E)	5.7x(Code F)	6.2x(Code G)
No load current [A]	60.0/30.0	29.7	32.0	33.9	29.7	32.0	33.9
Rated speed [RPM]	880	725	730	730	720	725	725
Slip [%]	2.22	3.33	2.67	2.67	4.00	3.33	3.33
Rated torque [ft.lb]	358	362	360	360	438	435	435
Locked rotor torque [%]	180	180	210	229	150	170	190
Breakdown torque [%]	270	250	290	310	210	240	260
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	105 K	105 K
Locked rotor time	23s (cold)	18s (cold)	18s (cold)	18s (cold)	18s (cold)	18s (cold)	18s (cold)
	13s (hot)	10s (hot)	10s (hot)	10s (hot)	10s (hot)	10s (hot)	10s (hot)
Noise level ²	60.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)
Efficiency (%)	25%						
	50%	93.0	92.4	91.9	91.9	92.4	92.4
	75%	93.0	92.1	92.1	92.2	91.7	91.7
	100%	93.0	91.8	91.8	91.8	90.2	91.0
Power Factor	25%						
	50%	0.68	0.67	0.64	0.61	0.74	0.71
	75%	0.78	0.79	0.77	0.74	0.82	0.80
	100%	0.83	0.84	0.82	0.81	0.85	0.84
Bearing type	: Drive end		: Non drive end		Foundation loads		
	: 6316 C3		: 6314 C3		Max. traction : 2816 lb		
	: WSeal		: WSeal		Max. compression : 3968 lb		
	: 20000 h		: 20000 h				
	: 34 g		: 27 g				
Lubricant type		: Mobil Polyrex EM					
Notes							
USABLE @208V 161A SF 1.10 SFA 178A							
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



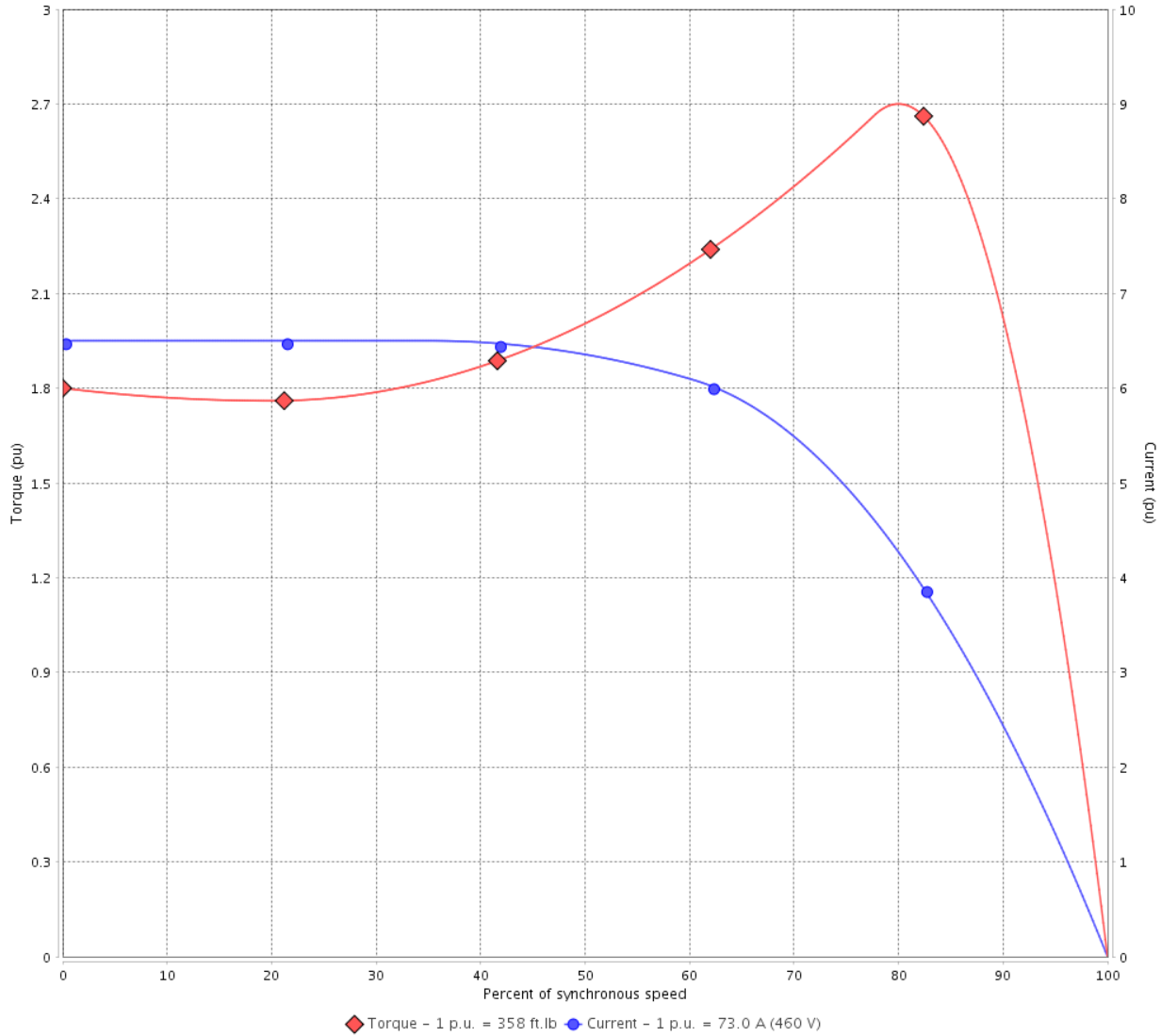
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11568741

Catalog # : 06009ET3E405T-W22

TORQUE AND CURRENT VS SPEED CURVE



Performance : 230/460 V 60 Hz 8P

Rated current	: 146/73.0 A	Moment of inertia (J)	: 40.2 sq.ft.lb
LRC	: 6.5	Duty cycle	: Cont.(S1)
Rated torque	: 358 ft.lb	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.25
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 880 rpm	Design	: B

Locked rotor time : 23s (cold) 13s (hot)

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TORQUE AND CURRENT VS SPEED CURVE



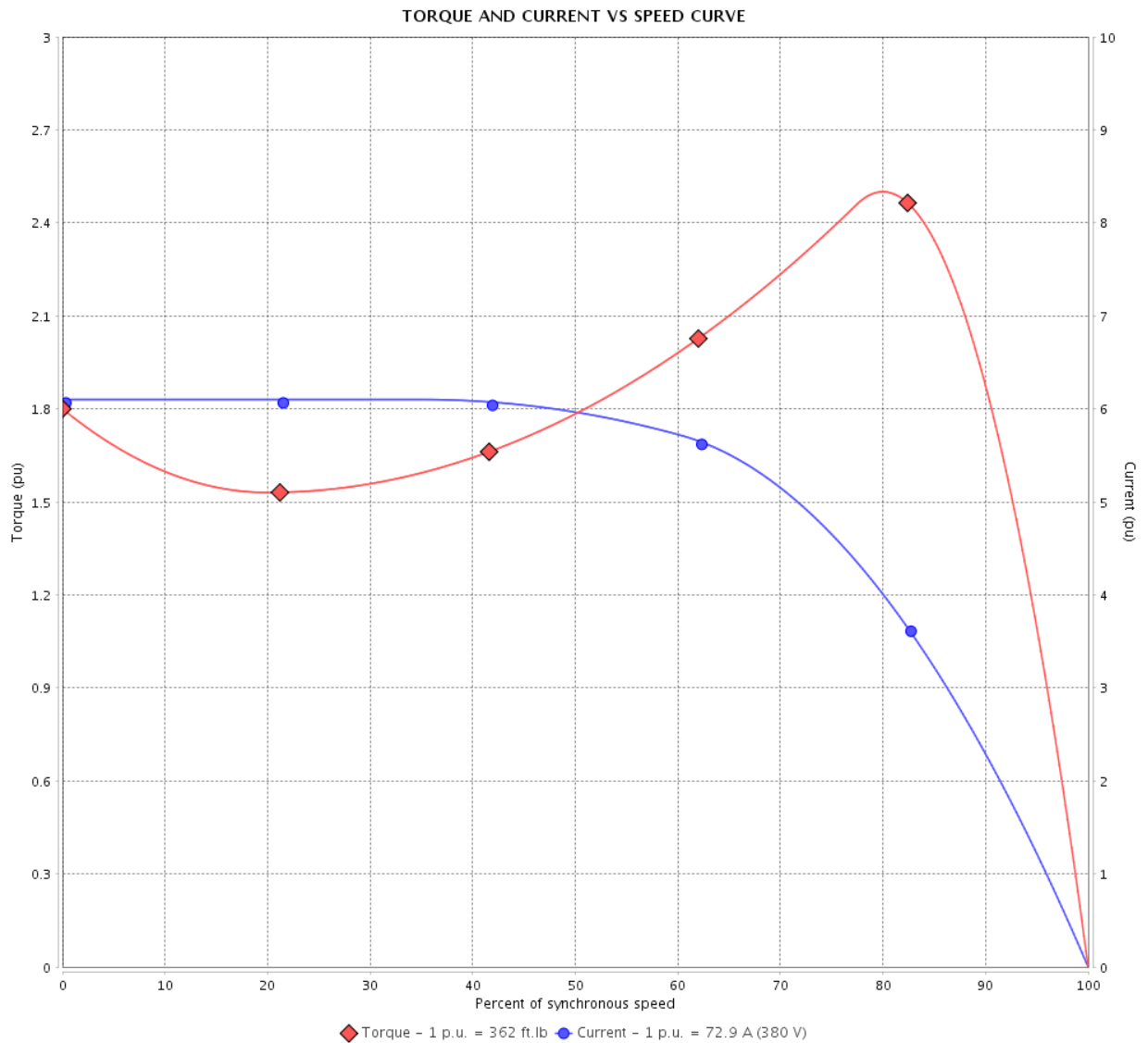
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Customer :

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Performance : 380 V 50 Hz 8P IE3

Rated current	: 72.9 A	Moment of inertia (J)	: 40.2 sq.ft.lb
LRC	: 6.1	Duty cycle	: Cont.(S1)
Rated torque	: 362 ft.lb	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.00
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 725 rpm	Design	: B

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

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



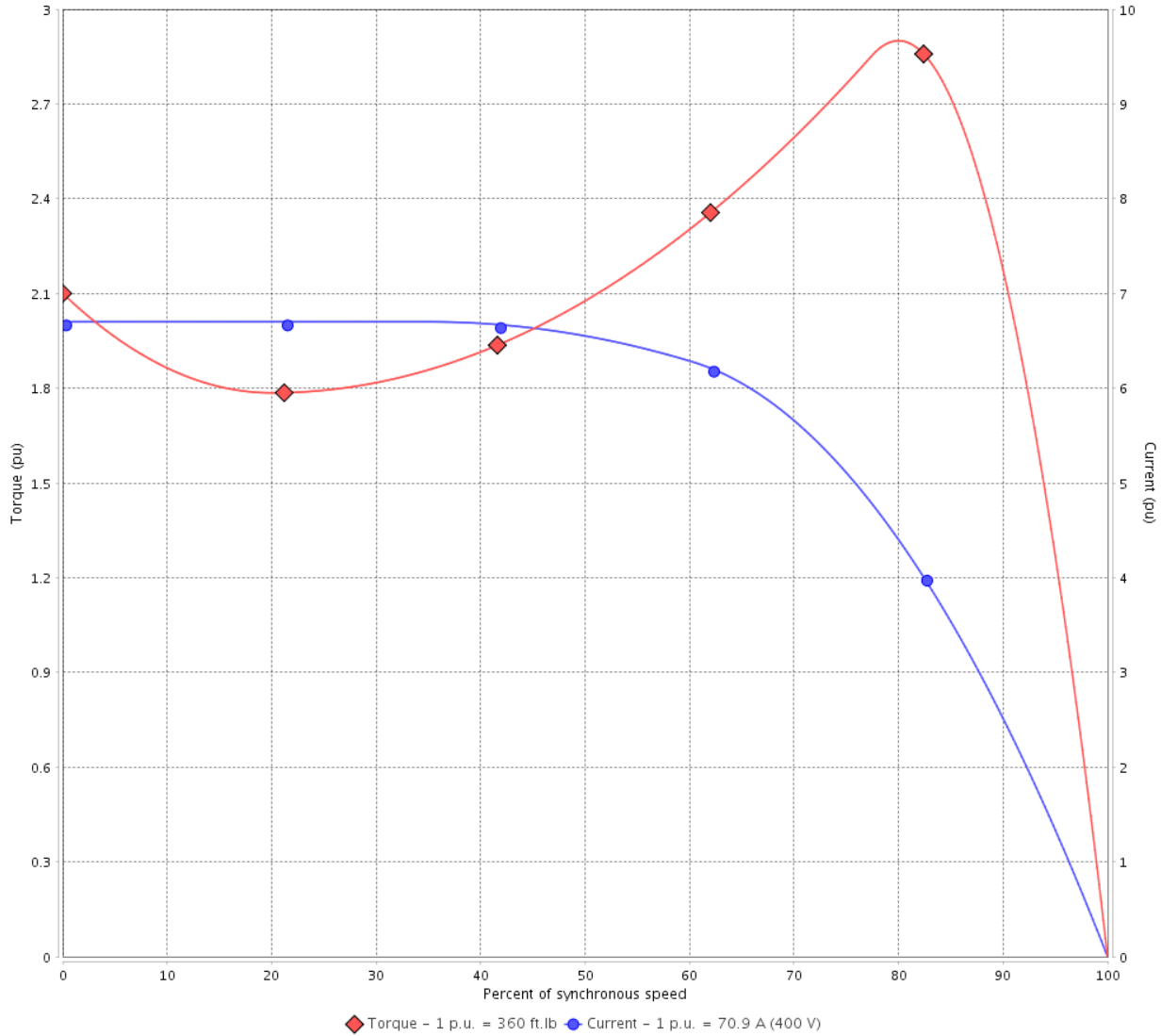
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TORQUE AND CURRENT VS SPEED CURVE



Performance : 400 V 50 Hz 8P IE3

Rated current	: 70.9 A	Moment of inertia (J)	: 40.2 sq.ft.lb
LRC	: 6.7	Duty cycle	: Cont.(S1)
Rated torque	: 360 ft.lb	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.00
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 730 rpm	Design	: B

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

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TORQUE AND CURRENT VS SPEED CURVE



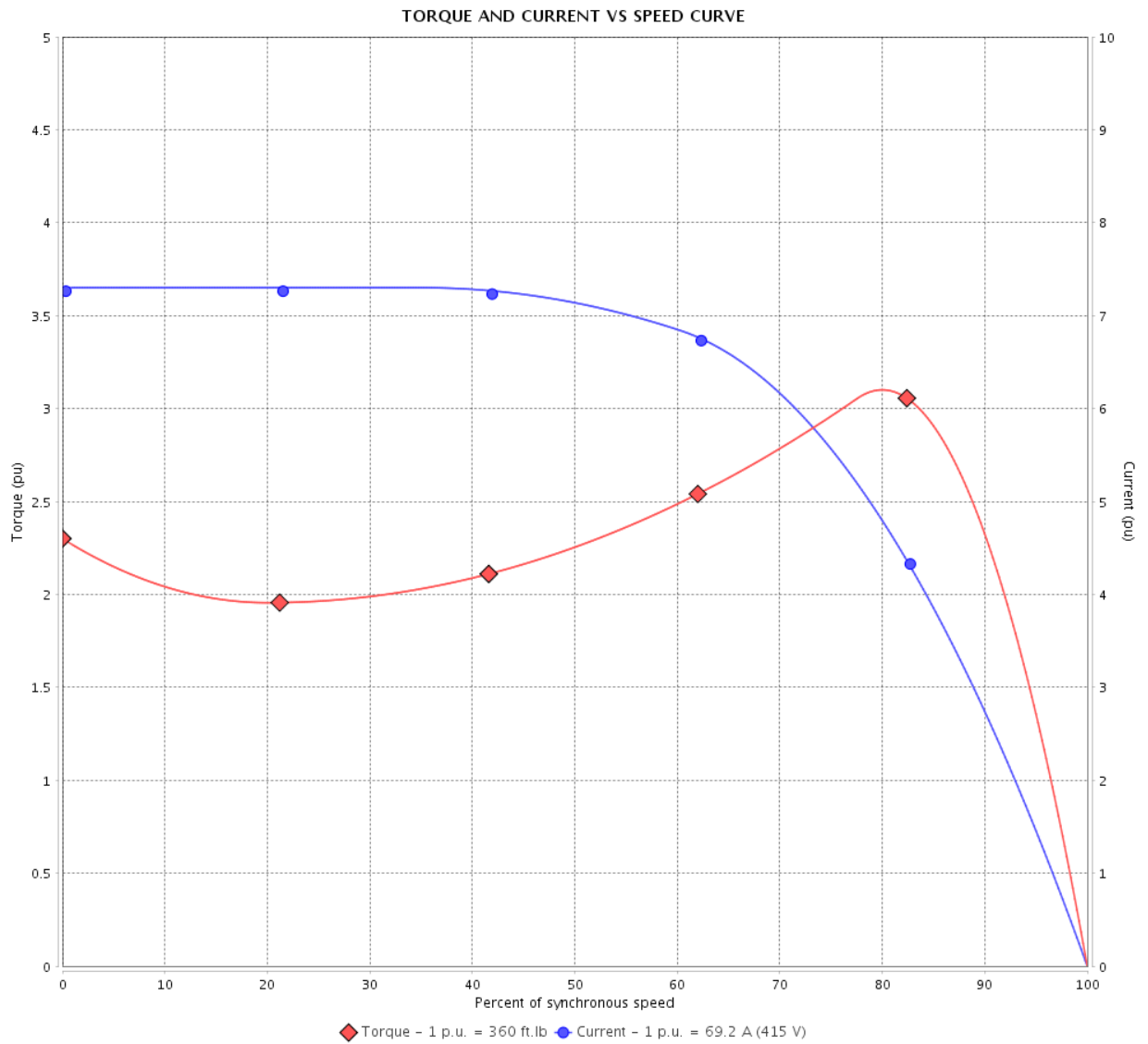
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Performance : 415 V 50 Hz 8P IE3

Rated current	: 69.2 A	Moment of inertia (J)	: 40.2 sq.ft.lb
LRC	: 7.3	Duty cycle	: Cont.(S1)
Rated torque	: 360 ft.lb	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.00
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 730 rpm	Design	: B

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

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TORQUE AND CURRENT VS SPEED CURVE

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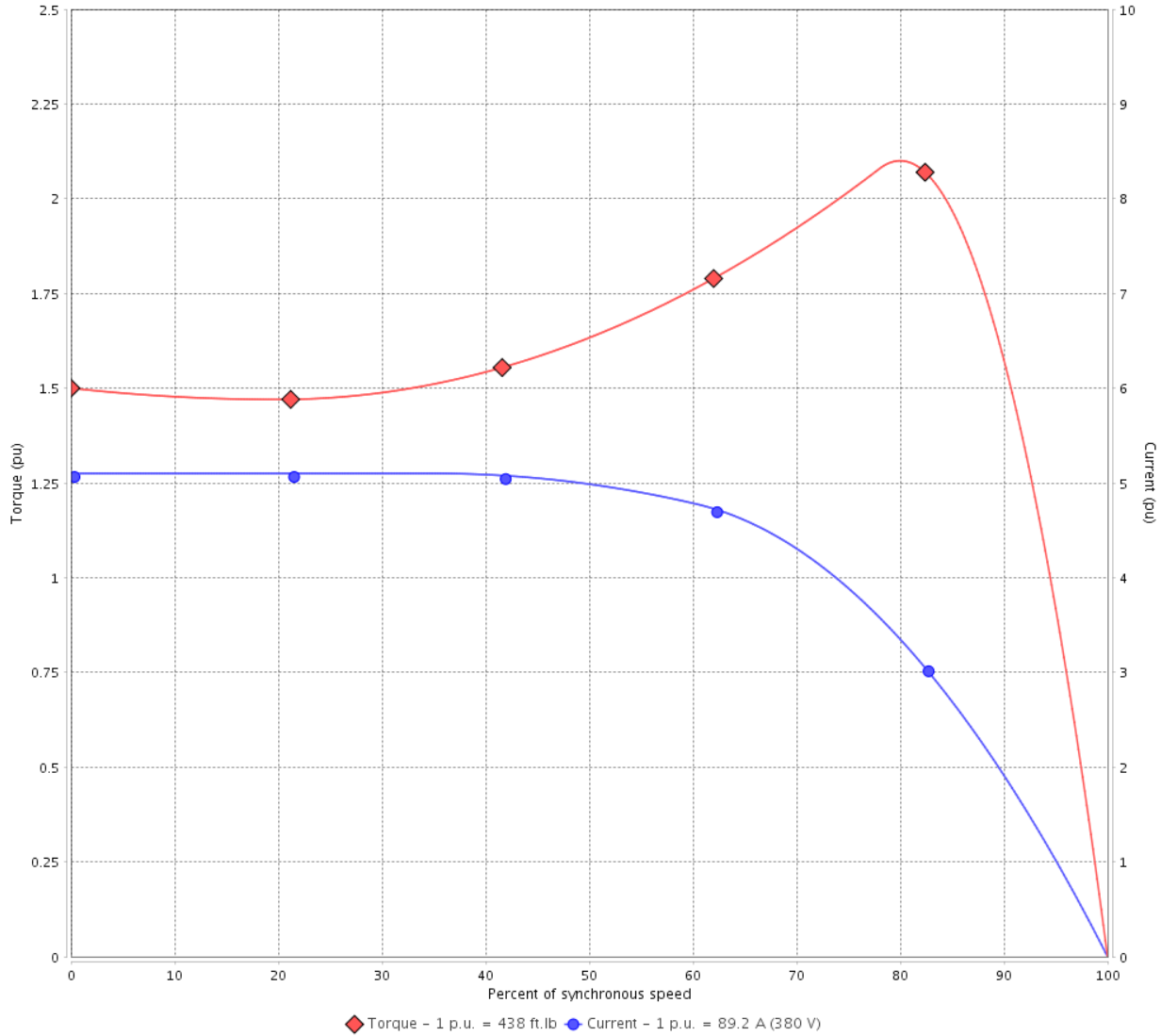
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TORQUE AND CURRENT VS SPEED CURVE



Performance : 380 V 50 Hz 8P IE1

Rated current	: 89.2 A	Moment of inertia (J)	: 40.2 sq.ft.lb
LRC	: 5.1	Duty cycle	: Cont.(S1)
Rated torque	: 438 ft.lb	Insulation class	: F
Locked rotor torque	: 150 %	Service factor	: 1.00
Breakdown torque	: 210 %	Temperature rise	: 105 K
Rated speed	: 720 rpm	Design	: B

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

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TORQUE AND CURRENT VS SPEED CURVE



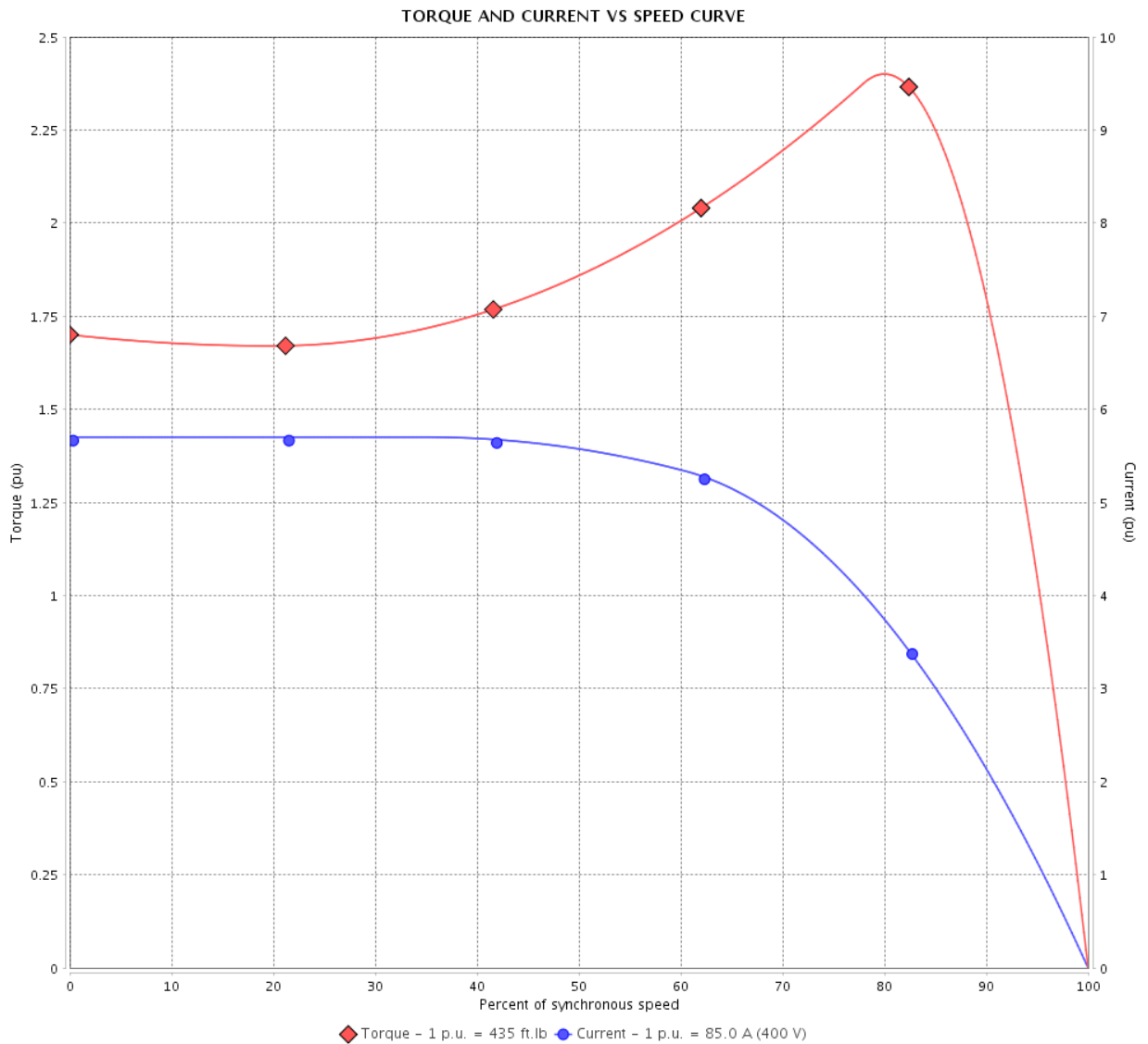
Three Phase Induction Motor - Squirrel Cage

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Product code : 11568741

Catalog # : 06009ET3E405T-W22



Performance : 400 V 50 Hz 8P IE2

Rated current	: 85.0 A	Moment of inertia (J)	: 40.2 sq.ft.lb
LRC	: 5.7	Duty cycle	: Cont.(S1)
Rated torque	: 435 ft.lb	Insulation class	: F
Locked rotor torque	: 170 %	Service factor	: 1.00
Breakdown torque	: 240 %	Temperature rise	: 105 K
Rated speed	: 725 rpm	Design	: B

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

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



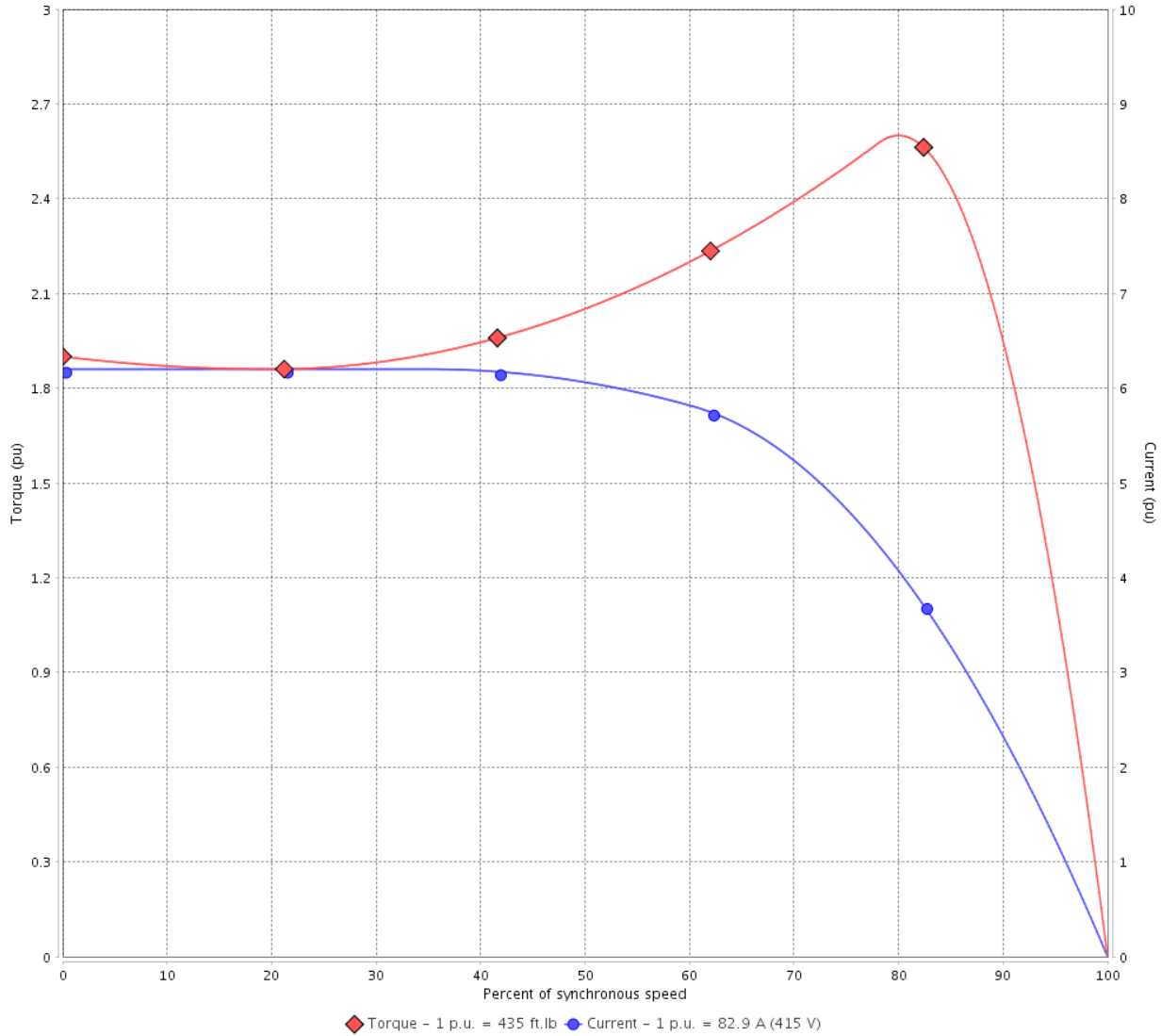
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TORQUE AND CURRENT VS SPEED CURVE



Performance : 415 V 50 Hz 8P IE2

Rated current	: 82.9 A	Moment of inertia (J)	: 40.2 sq.ft.lb
LRC	: 6.2	Duty cycle	: Cont.(S1)
Rated torque	: 435 ft.lb	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 260 %	Temperature rise	: 105 K
Rated speed	: 725 rpm	Design	: B

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

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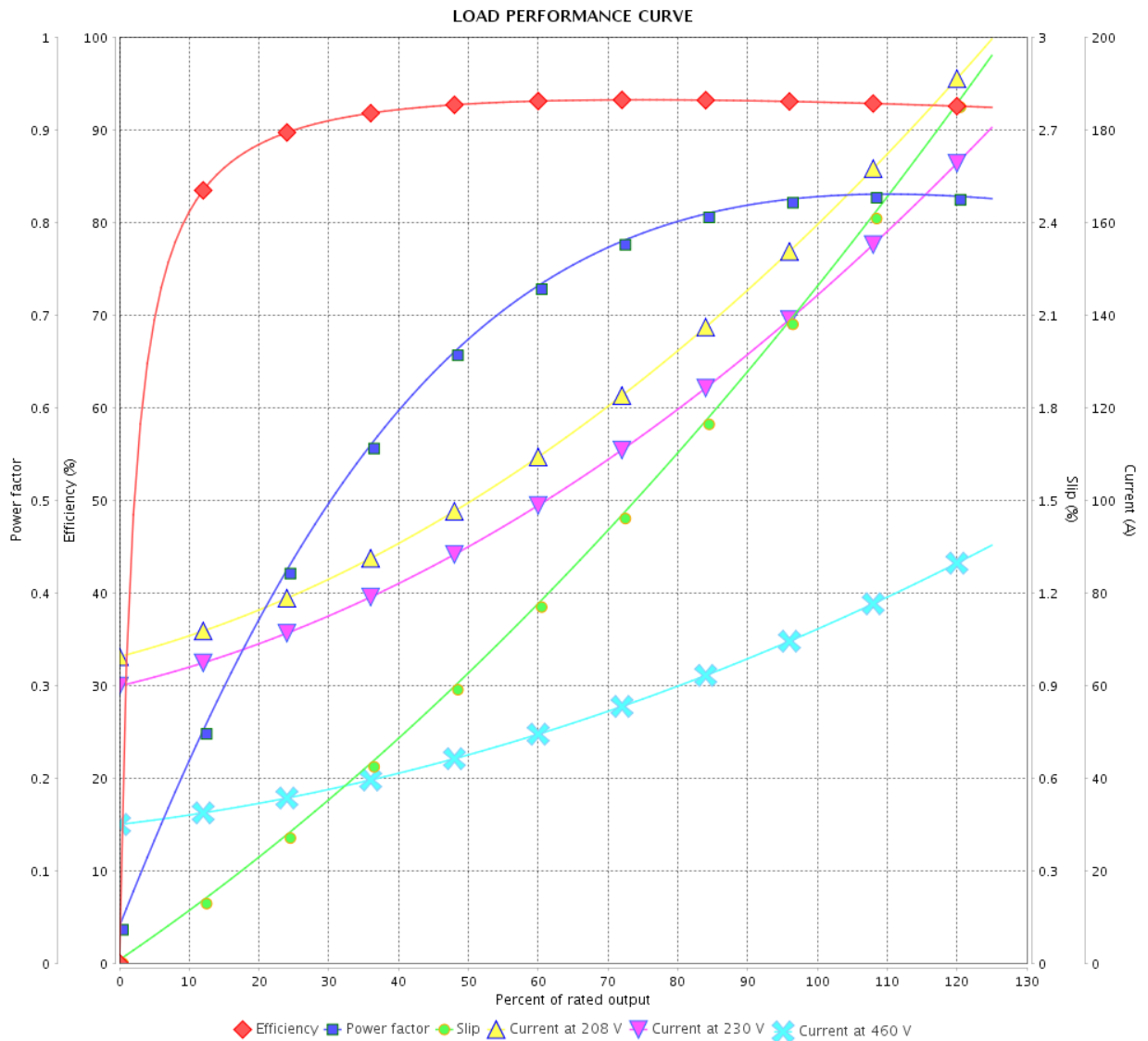


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Performance : 230/460 V 60 Hz 8P

Rated current : 146/73.0 A
 LRC : 6.5
 Rated torque : 358 ft.lb
 Locked rotor torque : 180 %
 Breakdown torque : 270 %
 Rated speed : 880 rpm

Moment of inertia (J) : 40.2 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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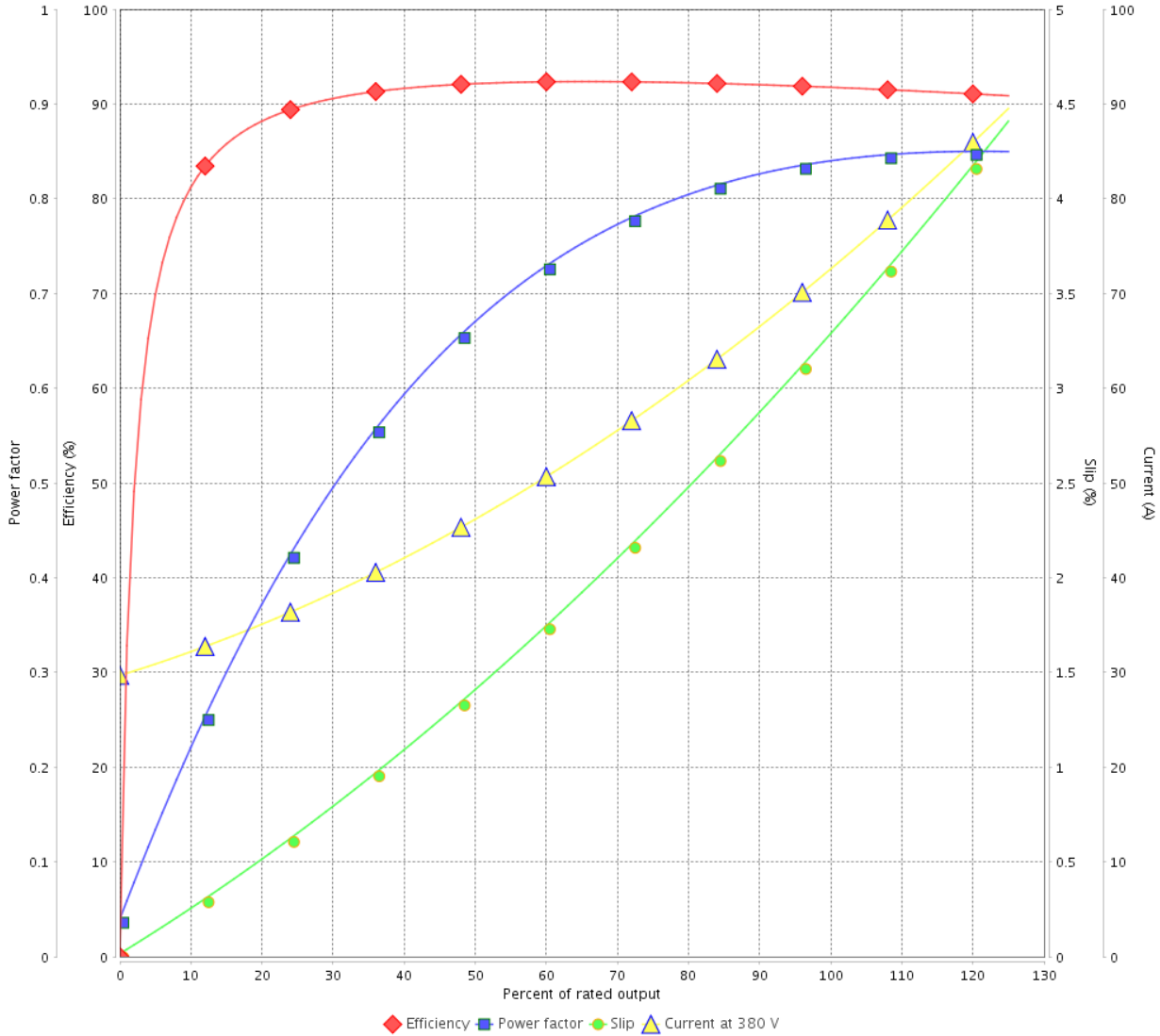
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Performance : 380 V 50 Hz 8P IE3

Rated current : 72.9 A
 LRC : 6.1
 Rated torque : 362 ft.lb
 Locked rotor torque : 180 %
 Breakdown torque : 250 %
 Rated speed : 725 rpm

Moment of inertia (J) : 40.2 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

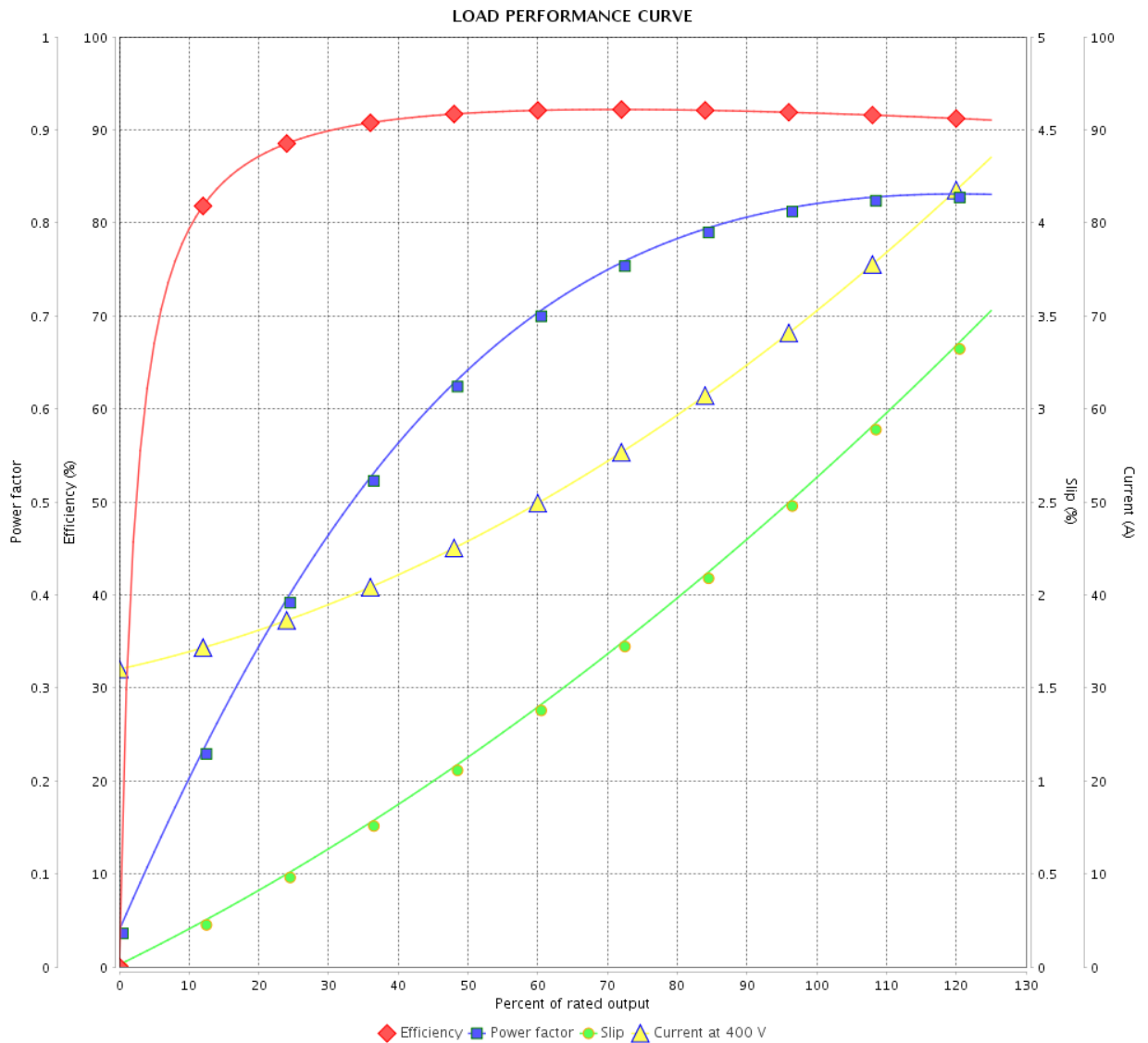


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Performance : 400 V 50 Hz 8P IE3

Rated current : 70.9 A
 LRC : 6.7
 Rated torque : 360 ft.lb
 Locked rotor torque : 210 %
 Breakdown torque : 290 %
 Rated speed : 730 rpm

Moment of inertia (J) : 40.2 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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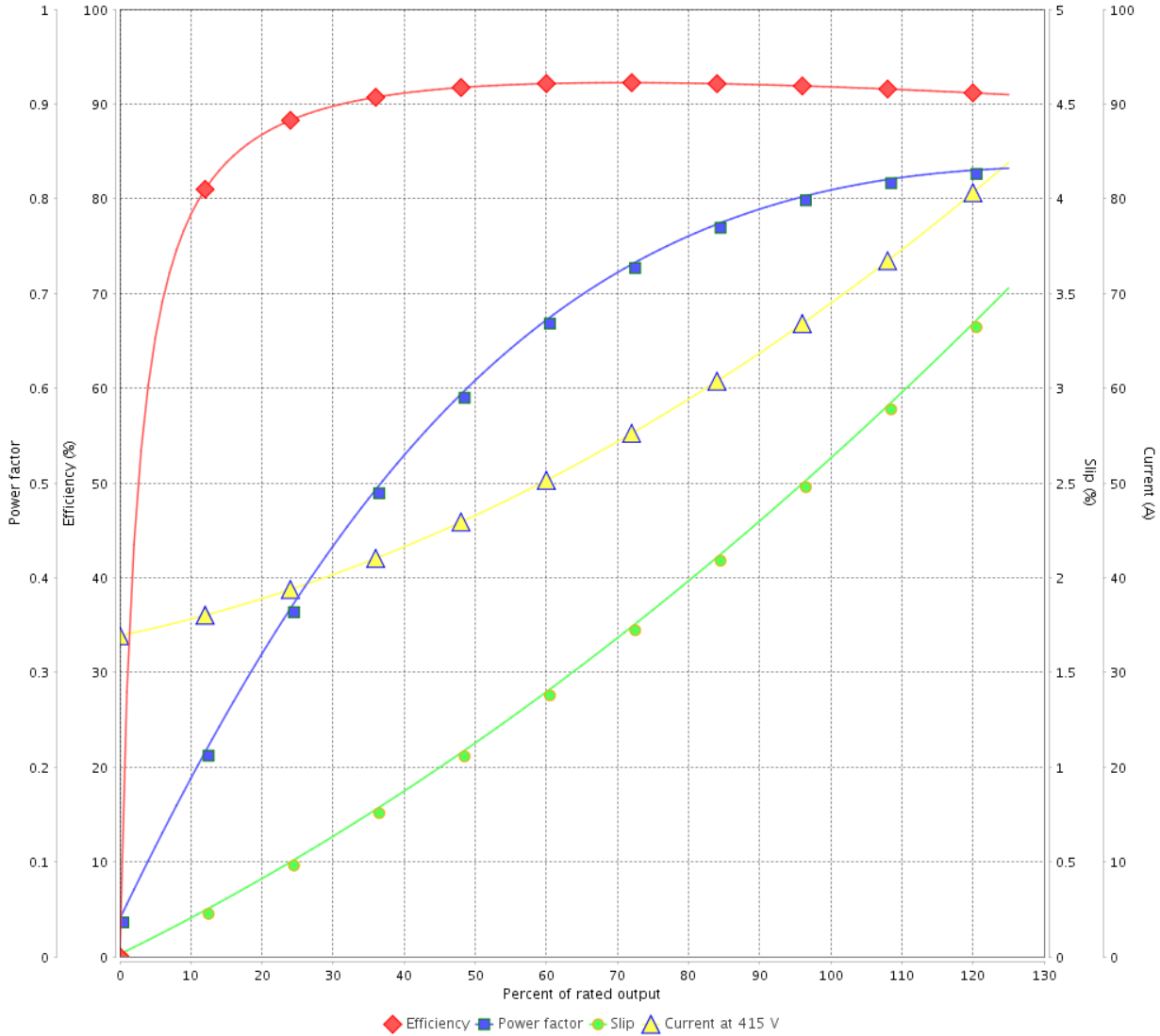
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Performance : 415 V 50 Hz 8P IE3

Rated current : 69.2 A
 LRC : 7.3
 Rated torque : 360 ft.lb
 Locked rotor torque : 229 %
 Breakdown torque : 310 %
 Rated speed : 730 rpm

Moment of inertia (J) : 40.2 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

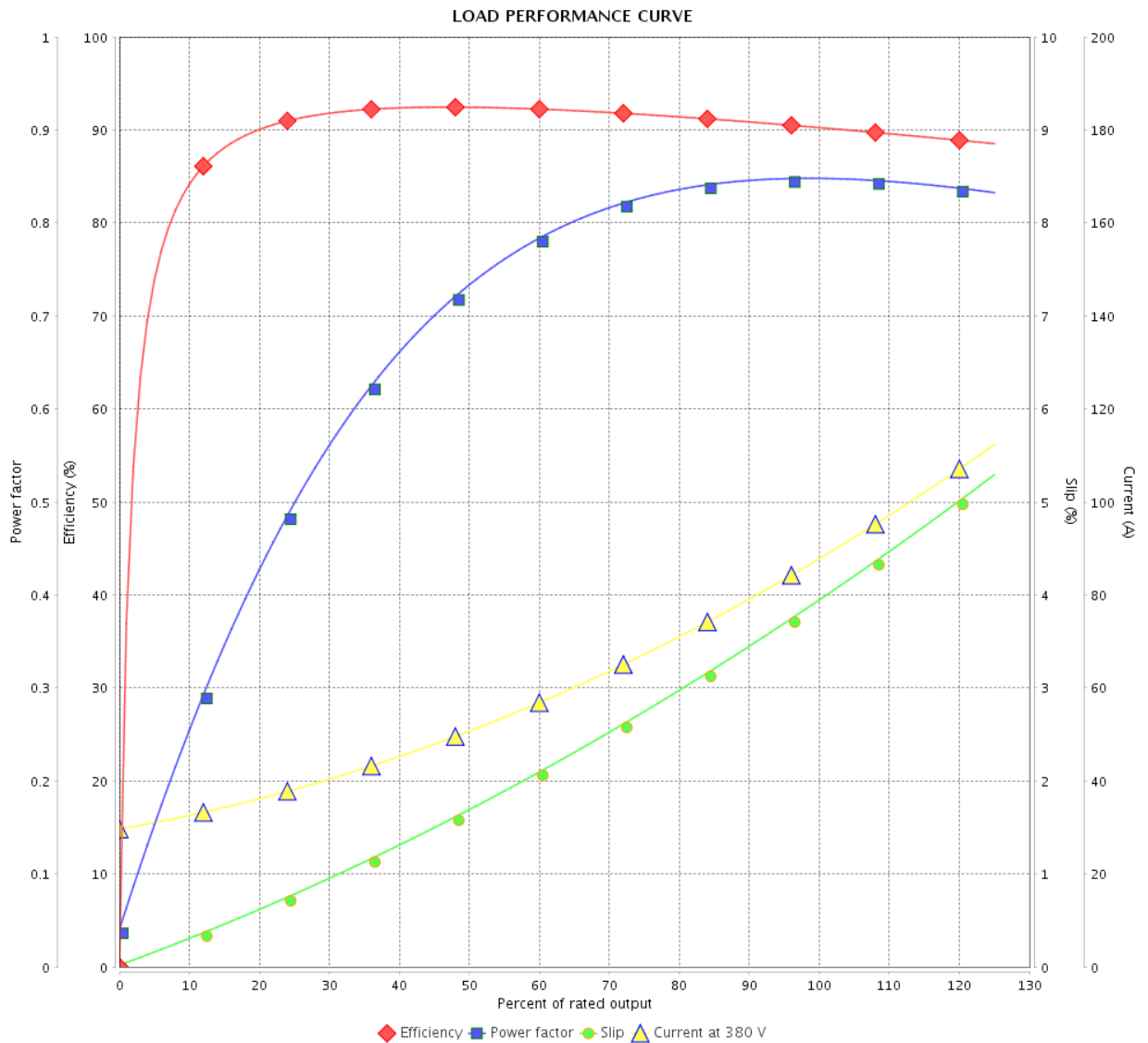


Customer :

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Product code : 11568741

Catalog # : 06009ET3E405T-W22



Performance : 380 V 50 Hz 8P IE1

Rated current : 89.2 A
 LRC : 5.1
 Rated torque : 438 ft.lb
 Locked rotor torque : 150 %
 Breakdown torque : 210 %
 Rated speed : 720 rpm

Moment of inertia (J) : 40.2 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : B

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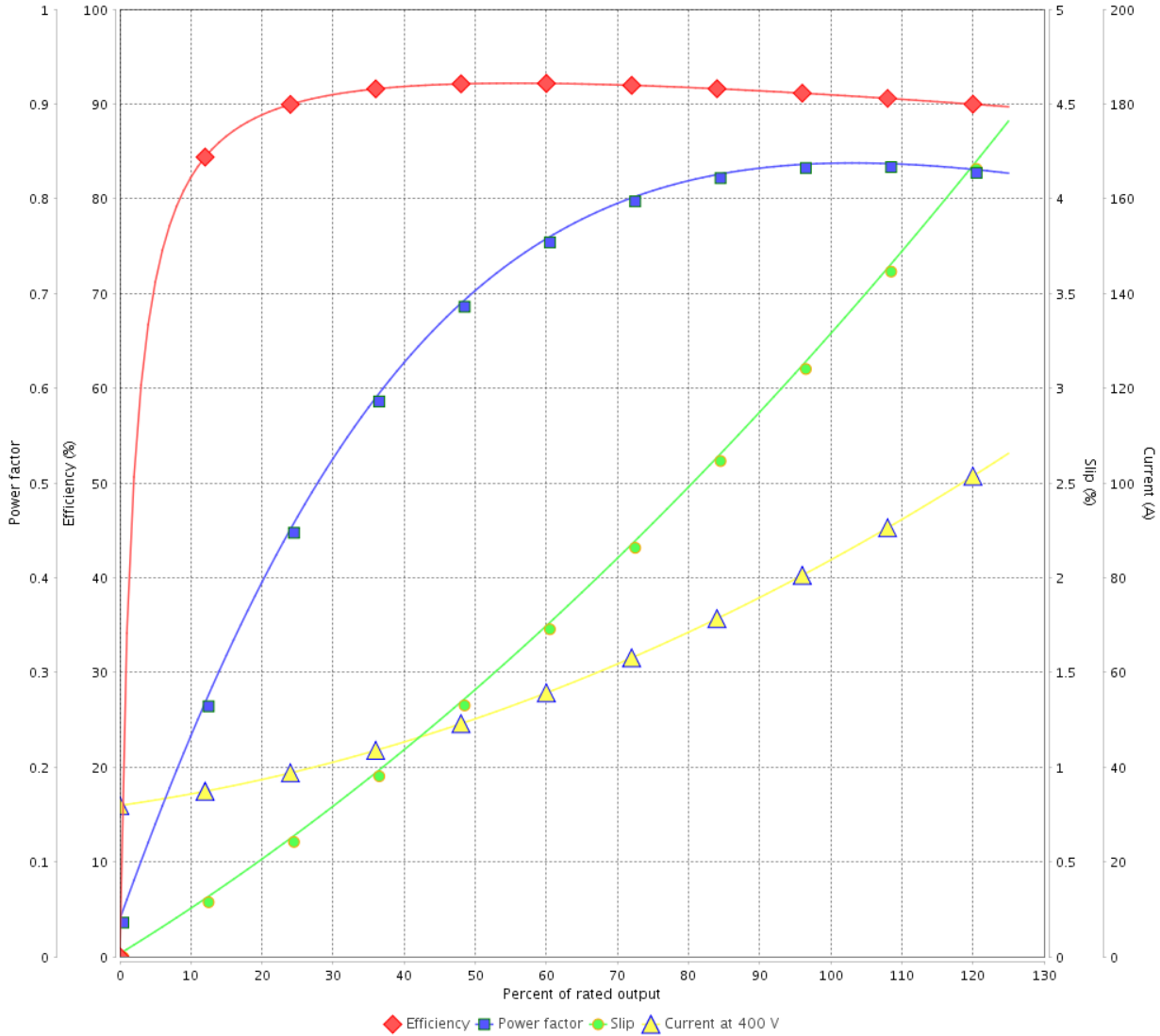
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LOAD PERFORMANCE CURVE



Performance : 400 V 50 Hz 8P IE2

Rated current : 85.0 A
 LRC : 5.7
 Rated torque : 435 ft.lb
 Locked rotor torque : 170 %
 Breakdown torque : 240 %
 Rated speed : 725 rpm

Moment of inertia (J) : 40.2 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : B

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Three Phase Induction Motor - Squirrel Cage

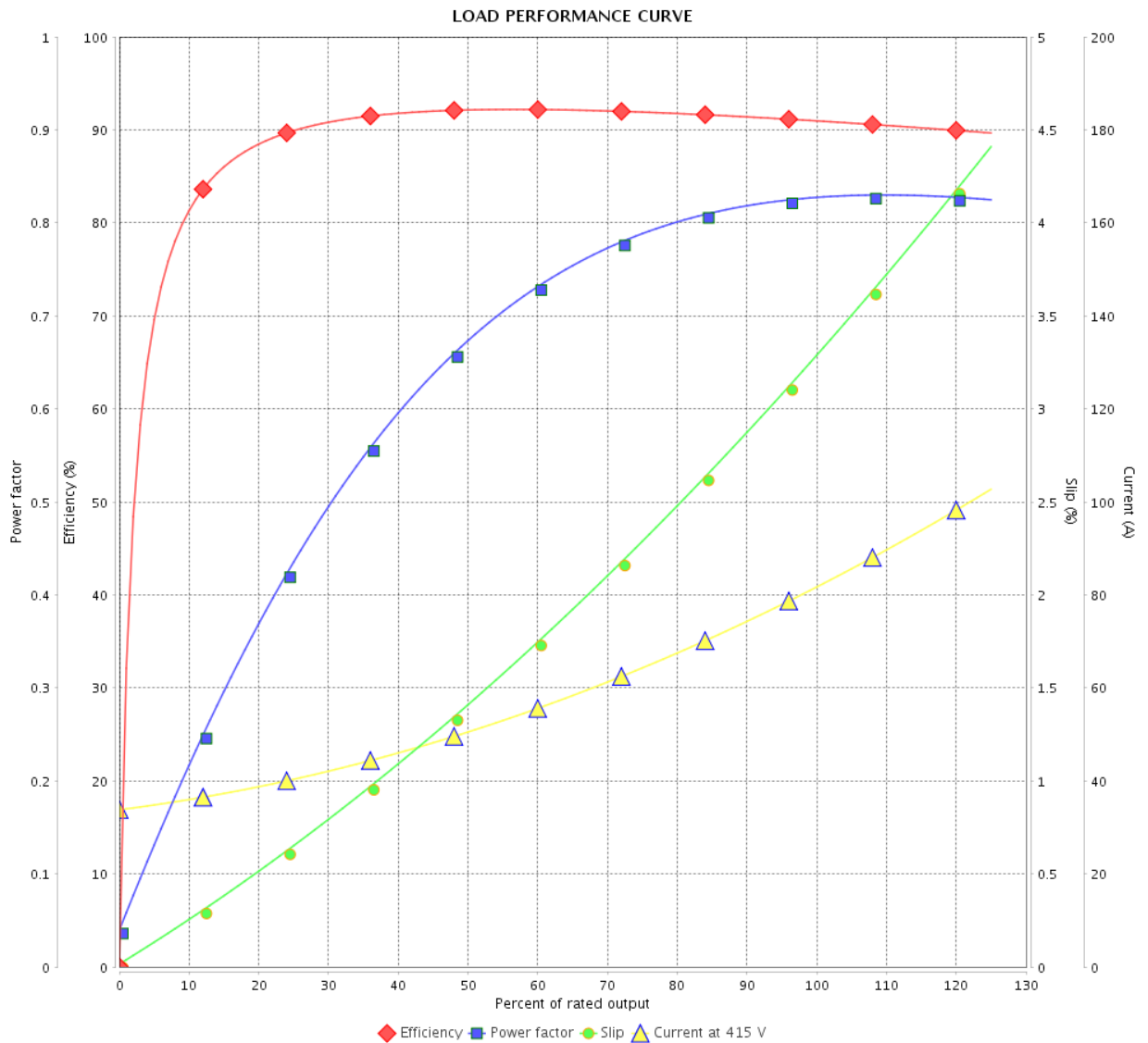


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 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : B

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THERMAL LIMIT CURVE



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Performance : 230/460 V 60 Hz 8P

Rated current	: 146/73.0 A	Moment of inertia (J)	: 40.2 sq.ft.lb
LRC	: 6.5	Duty cycle	: Cont.(S1)
Rated torque	: 358 ft.lb	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.25
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 880 rpm	Design	: B

Heating constant

Cooling constant

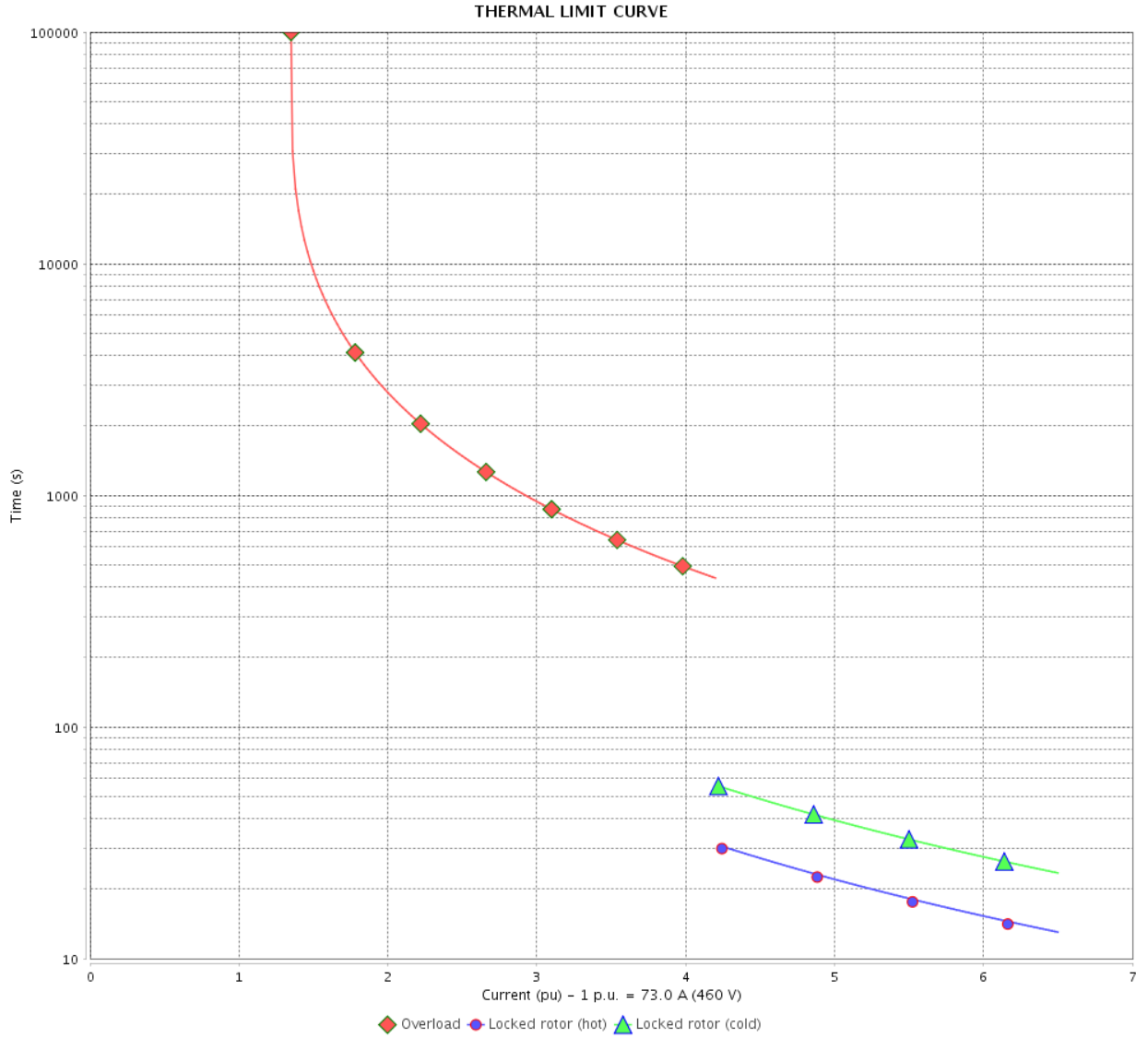
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Three Phase Induction Motor - Squirrel Cage



Customer : _____



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Breakdown torque : 250 %	Temperature rise : 80 K
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Heating constant

Cooling constant

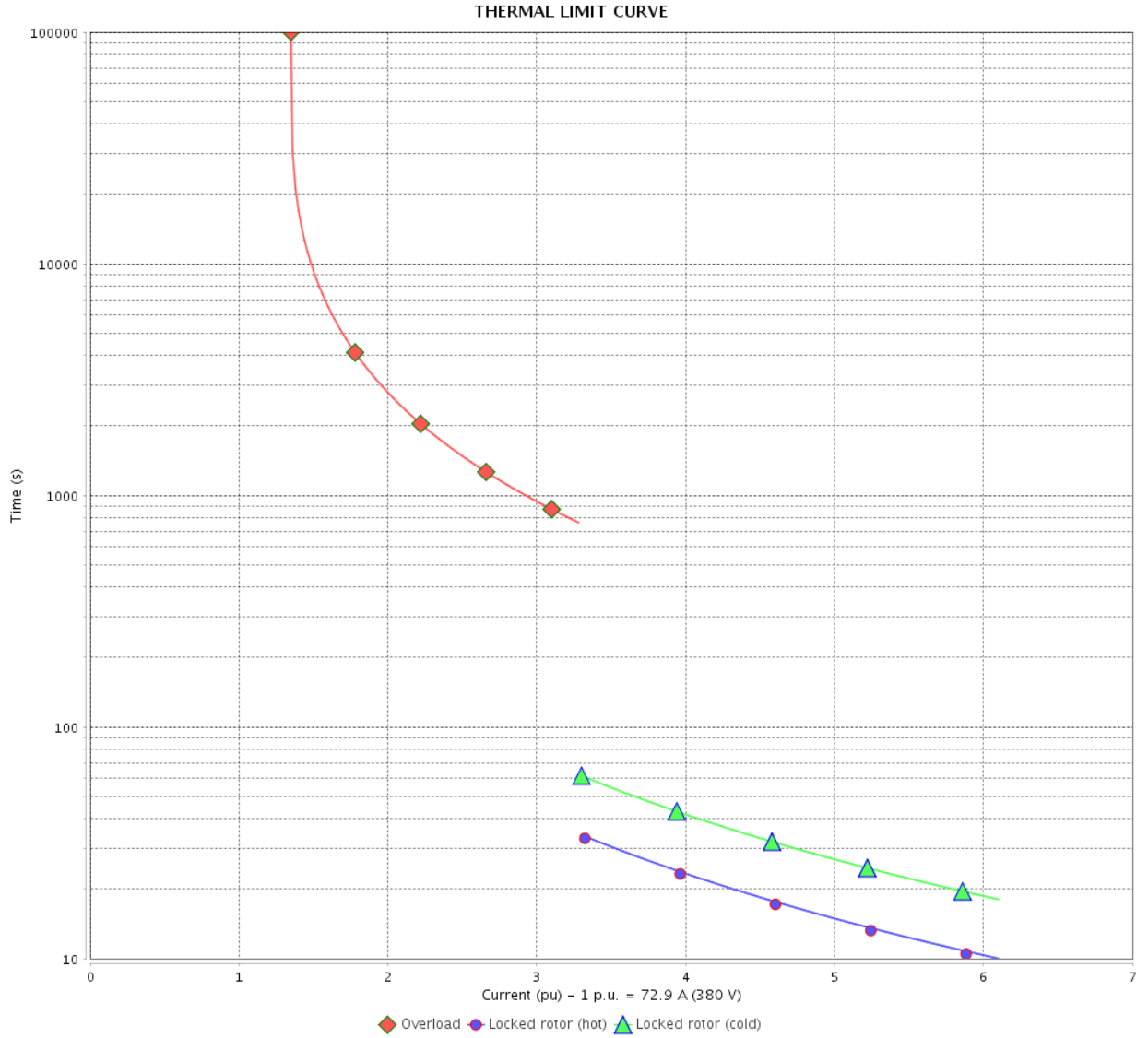
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THERMAL LIMIT CURVE

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LRC : 6.7	Duty cycle : Cont.(S1)
Rated torque : 360 ft.lb	Insulation class : F
Locked rotor torque : 210 %	Service factor : 1.00
Breakdown torque : 290 %	Temperature rise : 80 K
Rated speed : 730 rpm	Design : B

Heating constant

Cooling constant

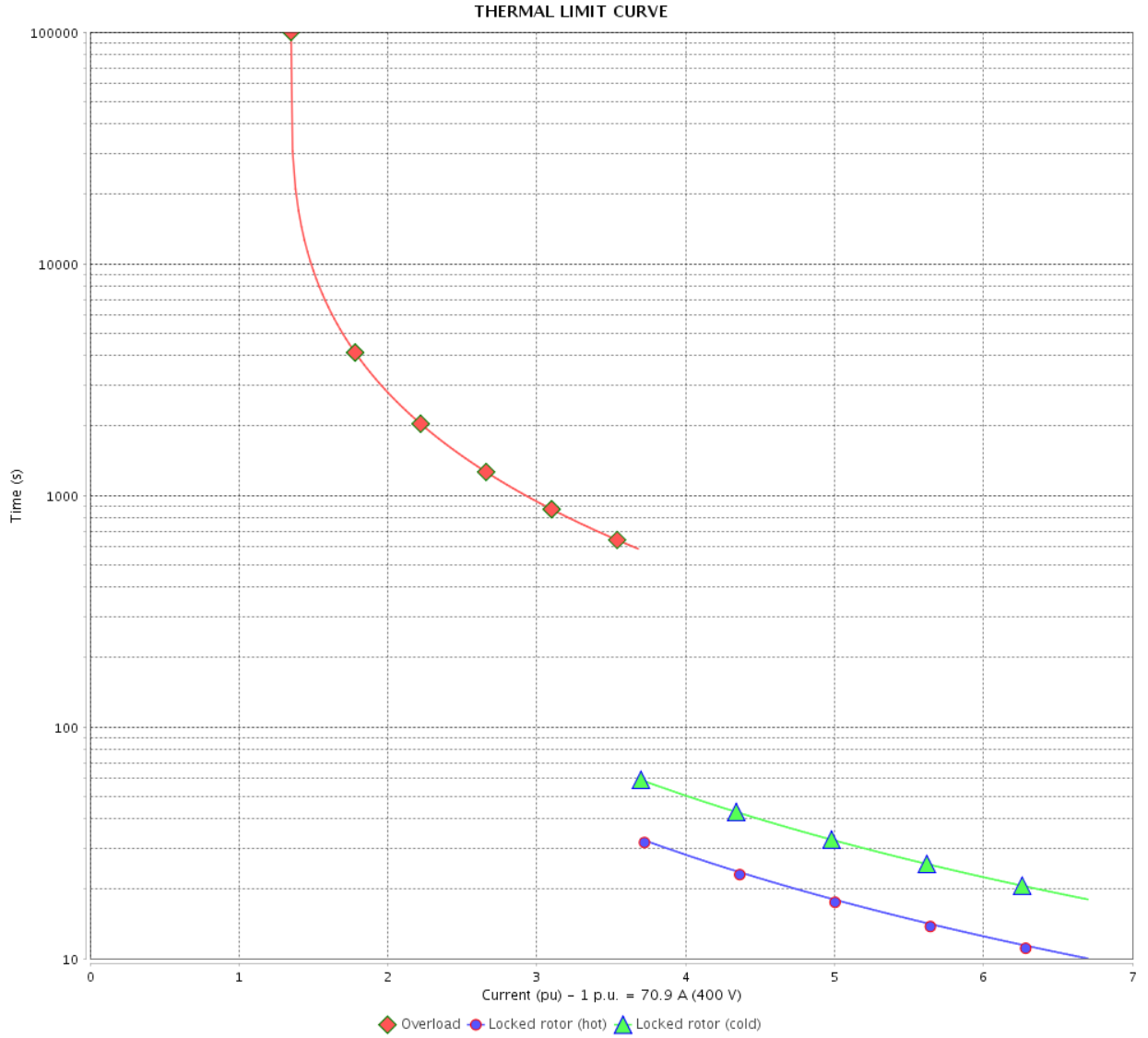
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Locked rotor torque	: 229 %	Service factor	: 1.00
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 730 rpm	Design	: B

Heating constant

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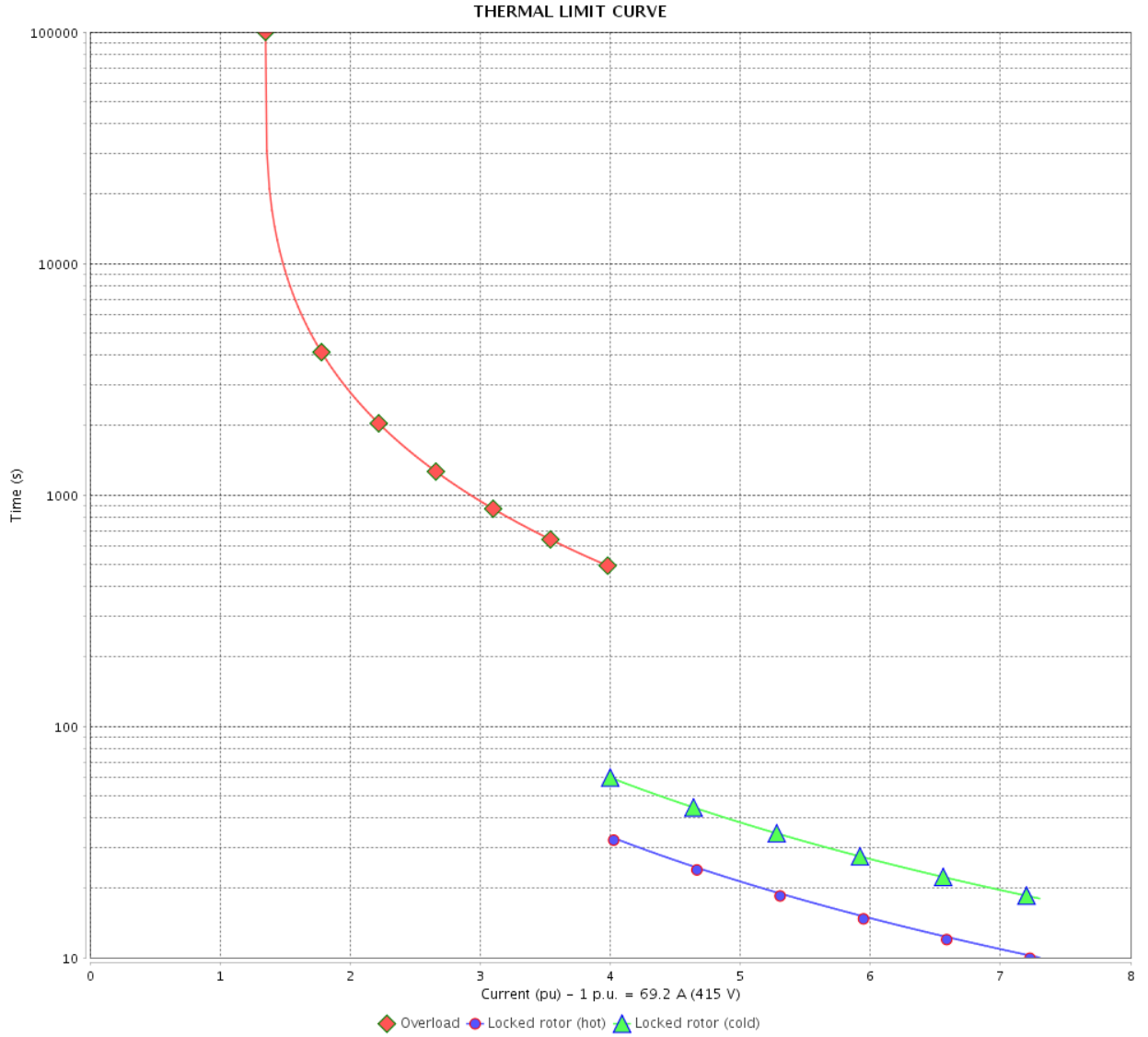
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Rated torque	: 438 ft.lb	Insulation class	: F
Locked rotor torque	: 150 %	Service factor	: 1.00
Breakdown torque	: 210 %	Temperature rise	: 105 K
Rated speed	: 720 rpm	Design	: B

Heating constant

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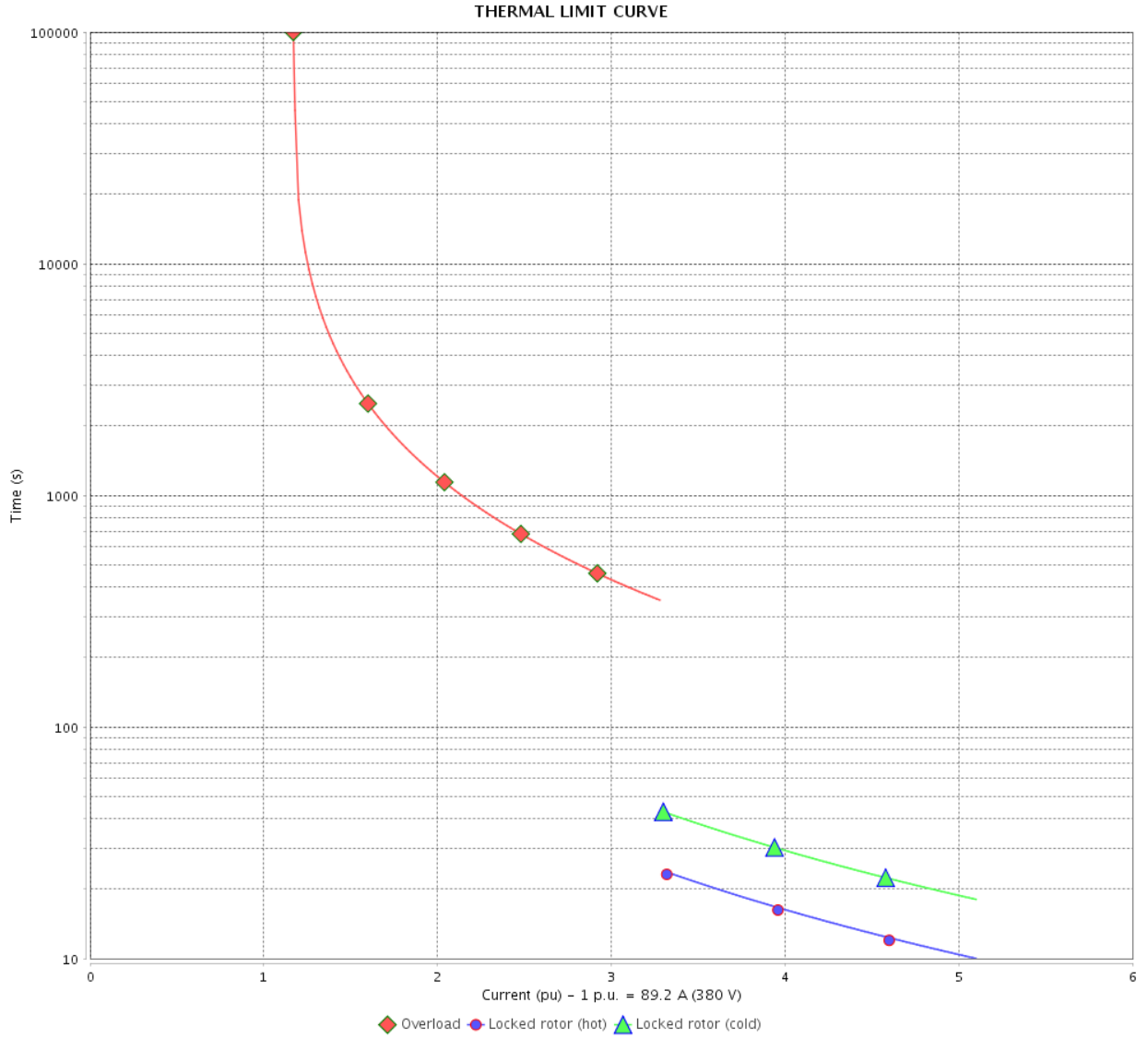
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LRC	: 5.7	Duty cycle	: Cont.(S1)
Rated torque	: 435 ft.lb	Insulation class	: F
Locked rotor torque	: 170 %	Service factor	: 1.00
Breakdown torque	: 240 %	Temperature rise	: 105 K
Rated speed	: 725 rpm	Design	: B

Heating constant

Cooling constant

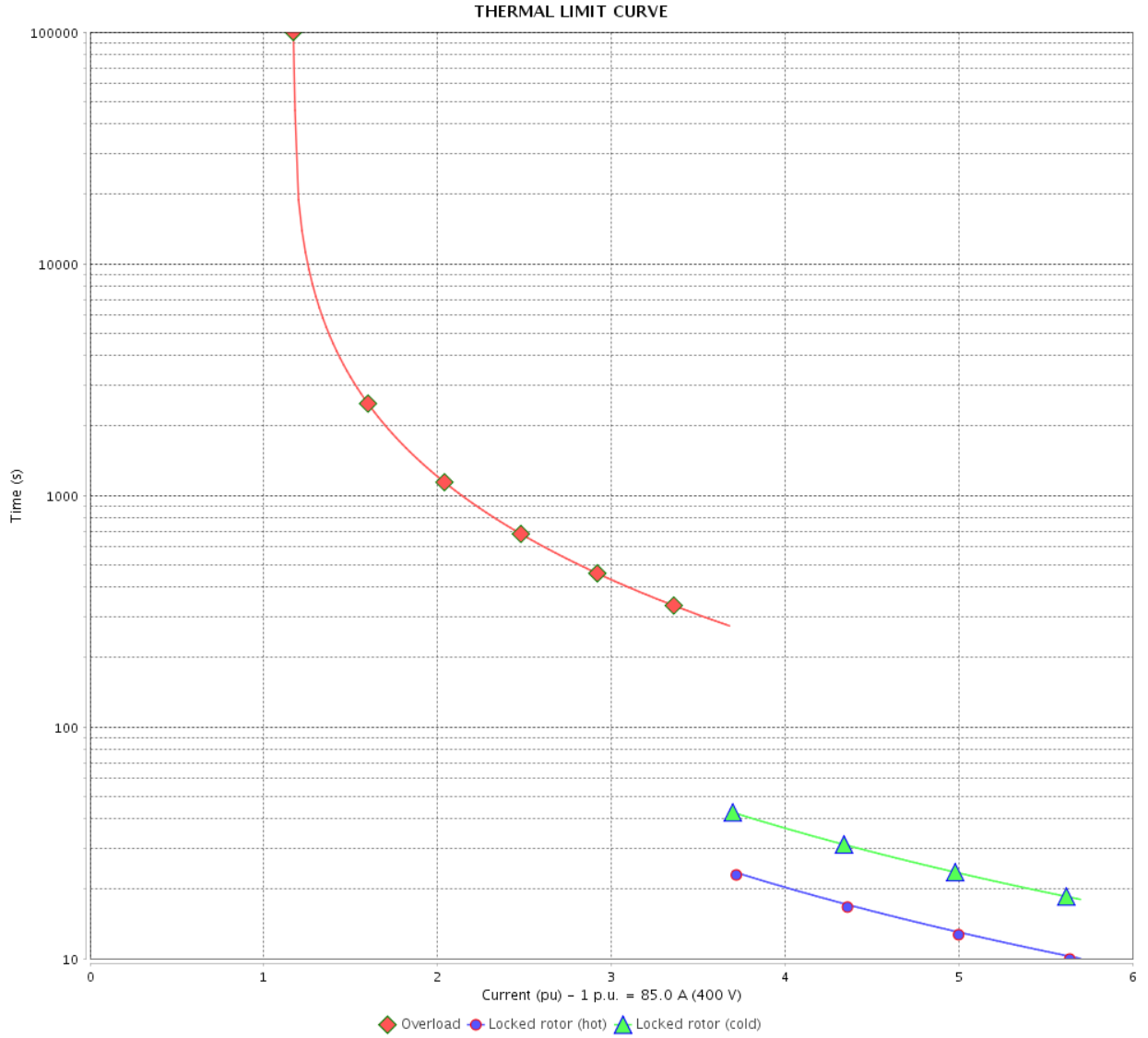
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	12/04/2022		26 / 36	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 27 / 36		Revision
Checked by				
Date				

THERMAL LIMIT CURVE



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase
 Product code : 11568741
 Catalog # : 06009ET3E405T-W22

Performance : 415 V 50 Hz 8P IE2

Rated current : 82.9 A	Moment of inertia (J) : 40.2 sq.ft.lb
LRC : 6.2	Duty cycle : Cont.(S1)
Rated torque : 435 ft.lb	Insulation class : F
Locked rotor torque : 190 %	Service factor : 1.00
Breakdown torque : 260 %	Temperature rise : 105 K
Rated speed : 725 rpm	Design : B

Heating constant

Cooling constant

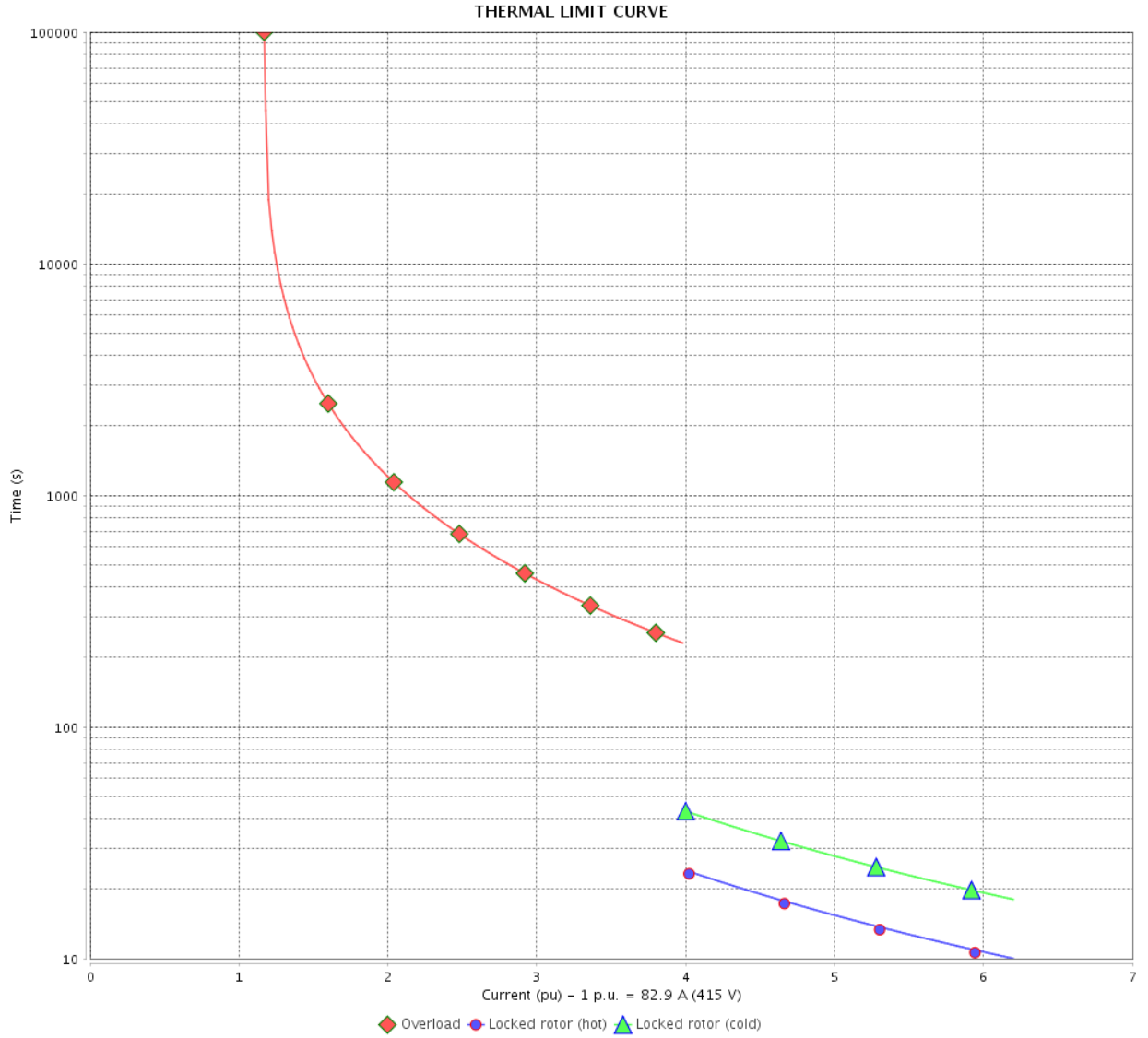
Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 28 / 36	Revision
Checked by				
Date	12/04/2022			

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page		Revision
Checked by		29 / 36		
Date		12/04/2022		

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

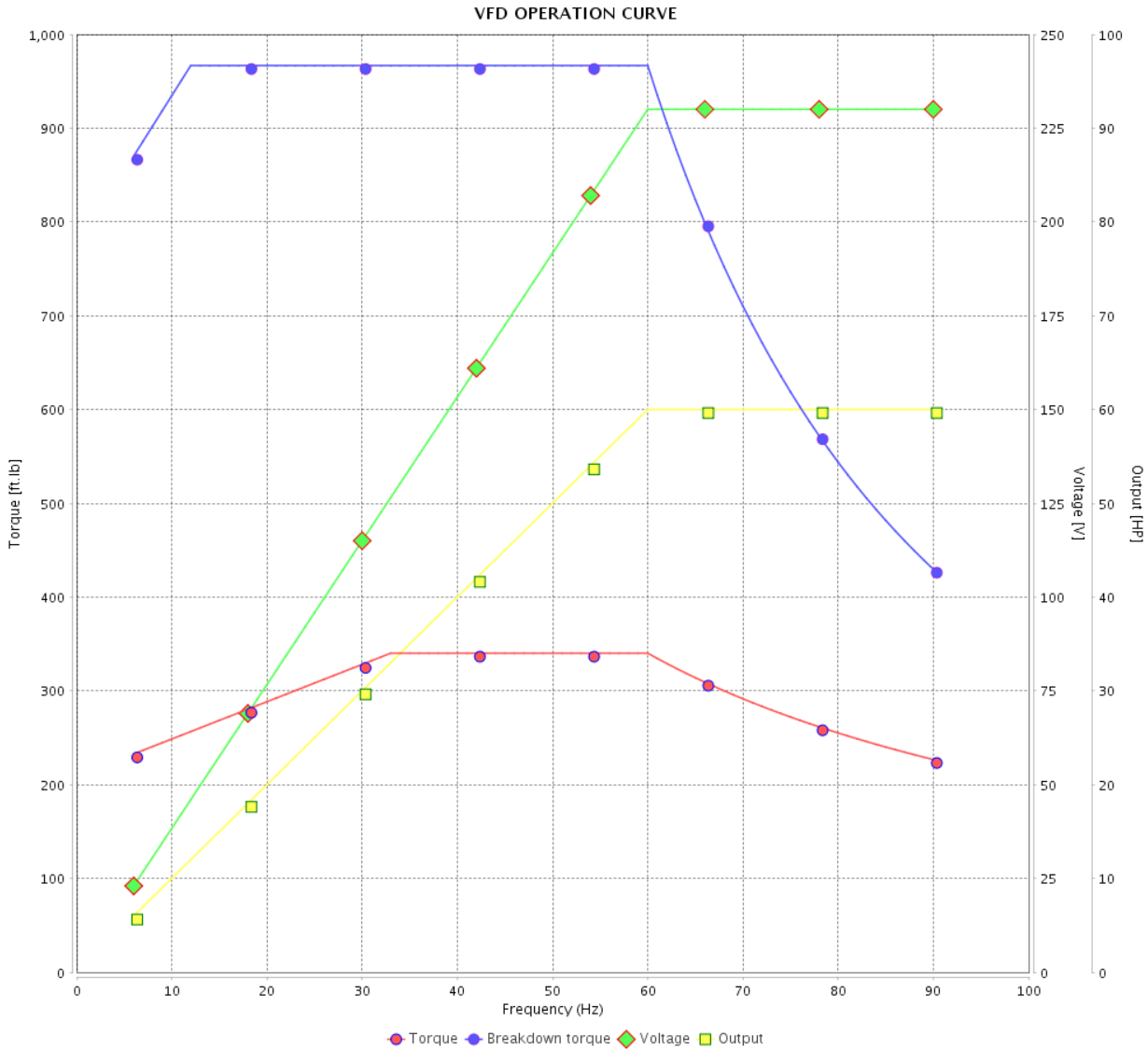


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11568741

Catalog # : 06009ET3E405T-W22



Performance : 230/460 V 60 Hz 8P

Rated current : 146/73.0 A
 LRC : 6.5
 Rated torque : 358 ft.lb
 Locked rotor torque : 180 %
 Breakdown torque : 270 %
 Rated speed : 880 rpm

Moment of inertia (J) : 40.2 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 30 / 36	Revision
Checked by				
Date	12/04/2022			

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

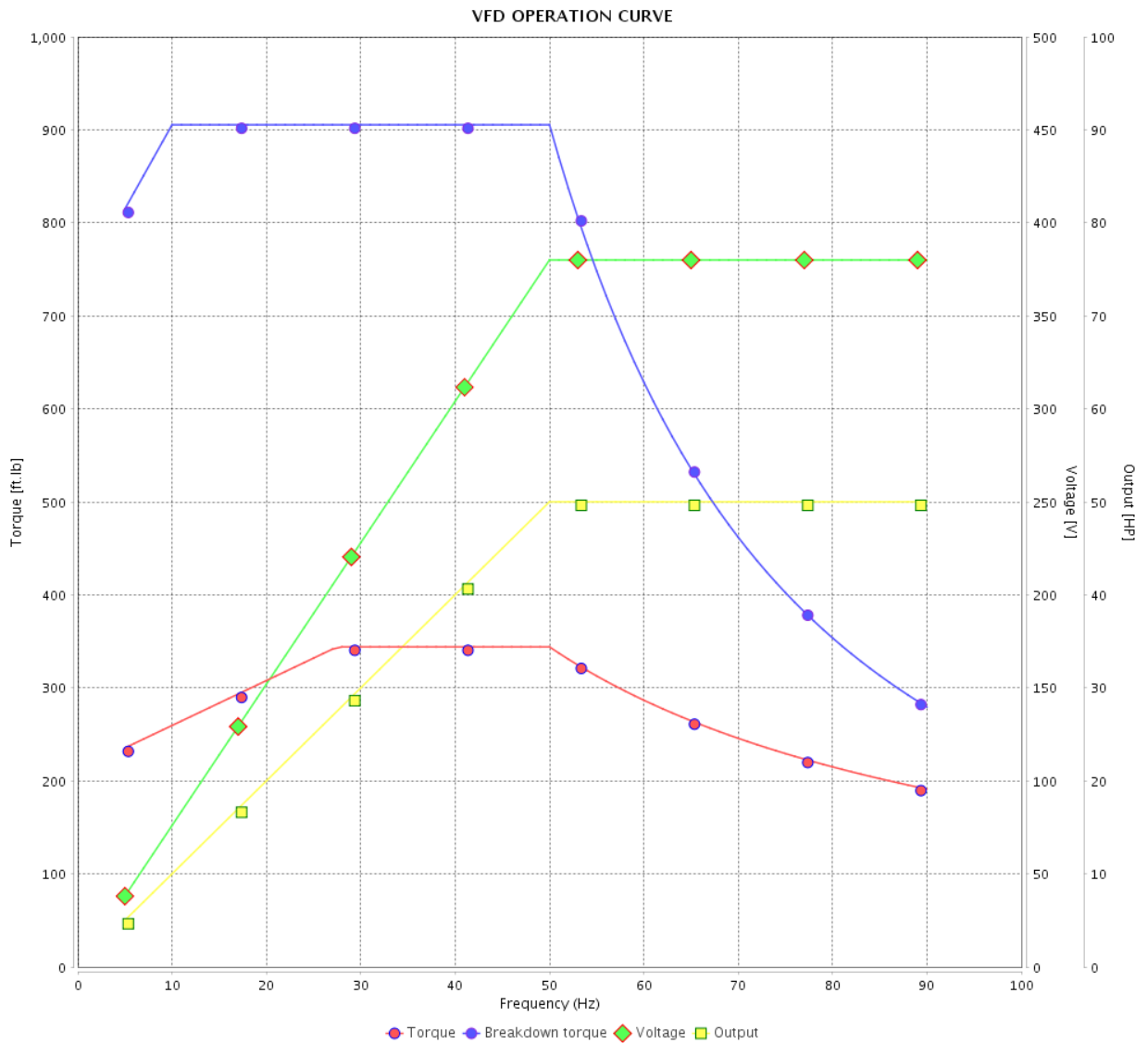


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11568741

Catalog # : 06009ET3E405T-W22



Performance : 380 V 50 Hz 8P IE3

Rated current : 72.9 A
 LRC : 6.1
 Rated torque : 362 ft.lb
 Locked rotor torque : 180 %
 Breakdown torque : 250 %
 Rated speed : 725 rpm

Moment of inertia (J) : 40.2 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 31 / 36	Revision
Checked by				
Date	12/04/2022			

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



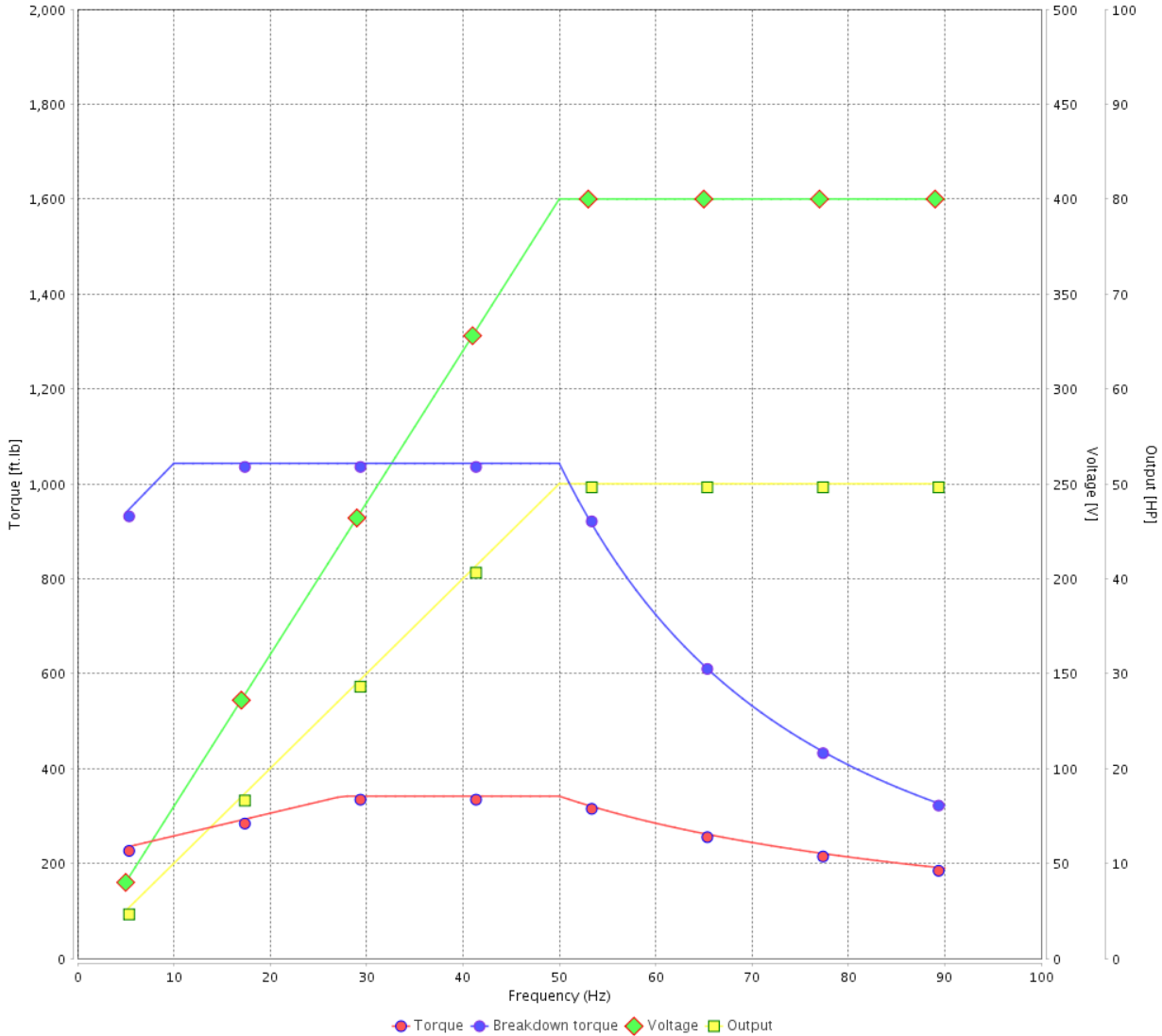
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11568741

Catalog # : 06009ET3E405T-W22

VFD OPERATION CURVE



Performance : 400 V 50 Hz 8P IE3

Rated current	: 70.9 A	Moment of inertia (J)	: 40.2 sq.ft.lb
LRC	: 6.7	Duty cycle	: Cont.(S1)
Rated torque	: 360 ft.lb	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.00
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 730 rpm	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

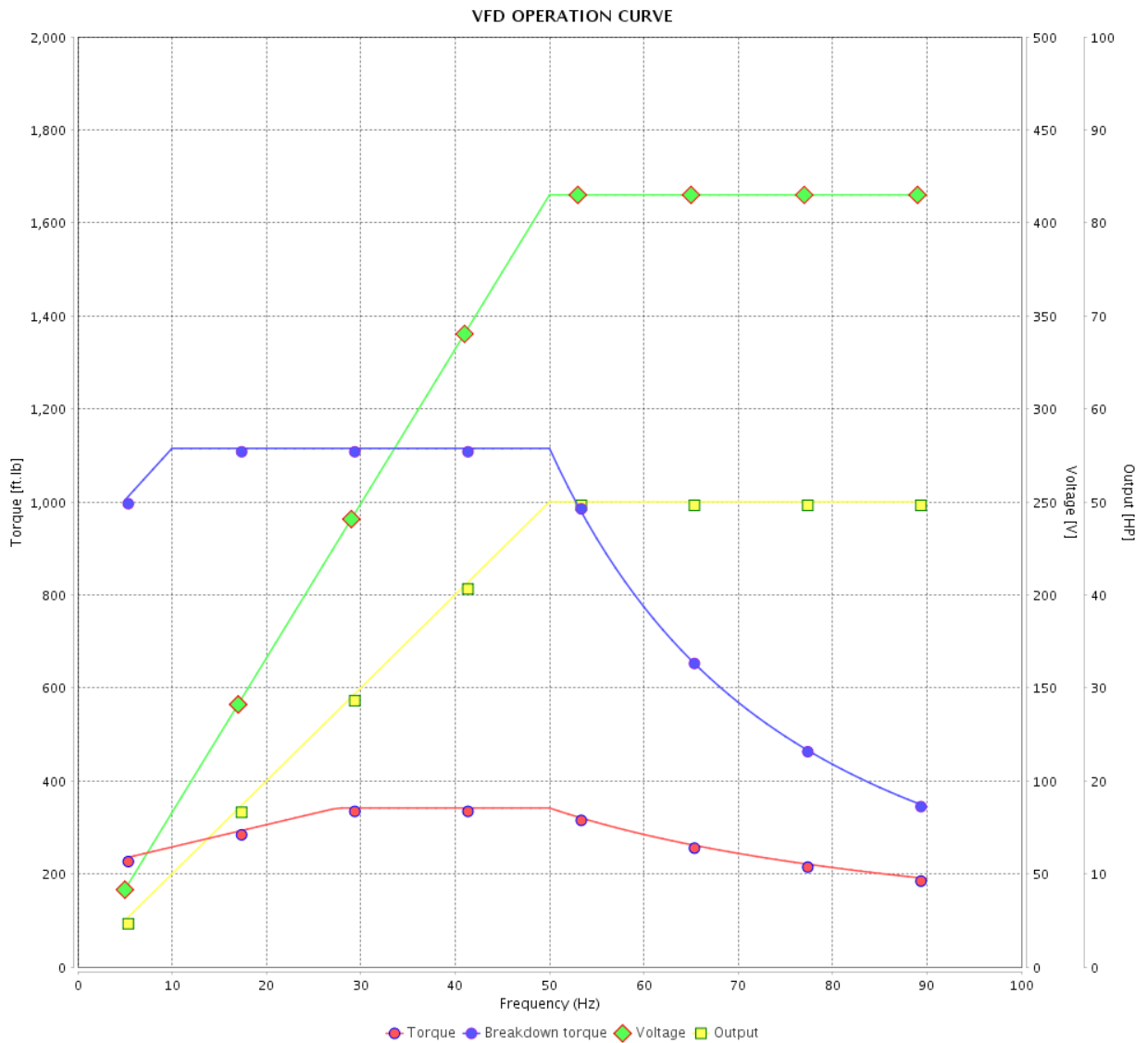


Customer : _____

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11568741

Catalog # : 06009ET3E405T-W22



Performance : 415 V 50 Hz 8P IE3

Rated current : 69.2 A
 LRC : 7.3
 Rated torque : 360 ft.lb
 Locked rotor torque : 229 %
 Breakdown torque : 310 %
 Rated speed : 730 rpm

Moment of inertia (J) : 40.2 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



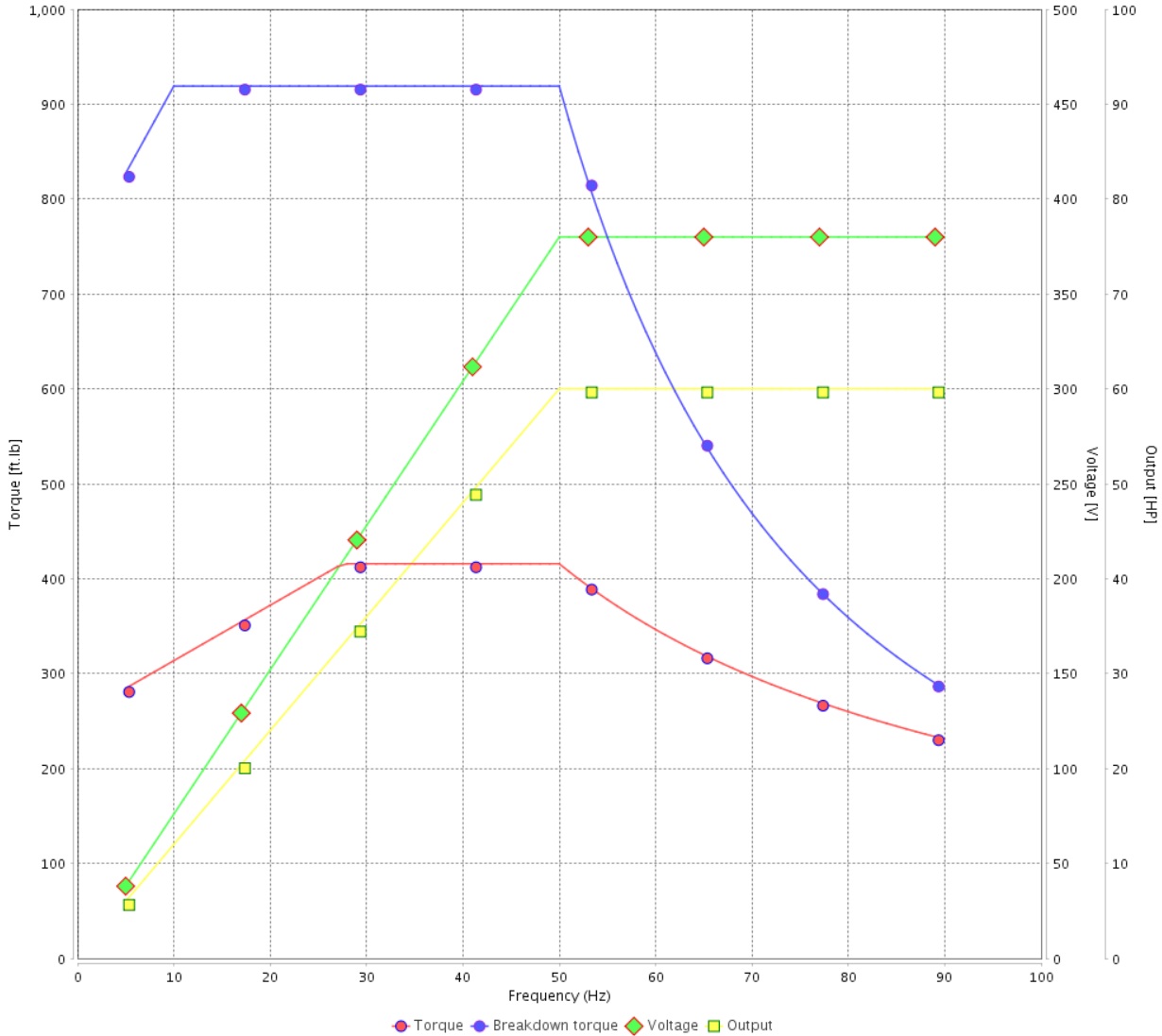
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11568741

Catalog # : 06009ET3E405T-W22

VFD OPERATION CURVE



Performance : 380 V 50 Hz 8P IE1

Rated current	: 89.2 A	Moment of inertia (J)	: 40.2 sq.ft.lb
LRC	: 5.1	Duty cycle	: Cont.(S1)
Rated torque	: 438 ft.lb	Insulation class	: F
Locked rotor torque	: 150 %	Service factor	: 1.00
Breakdown torque	: 210 %	Temperature rise	: 105 K
Rated speed	: 720 rpm	Design	: B

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

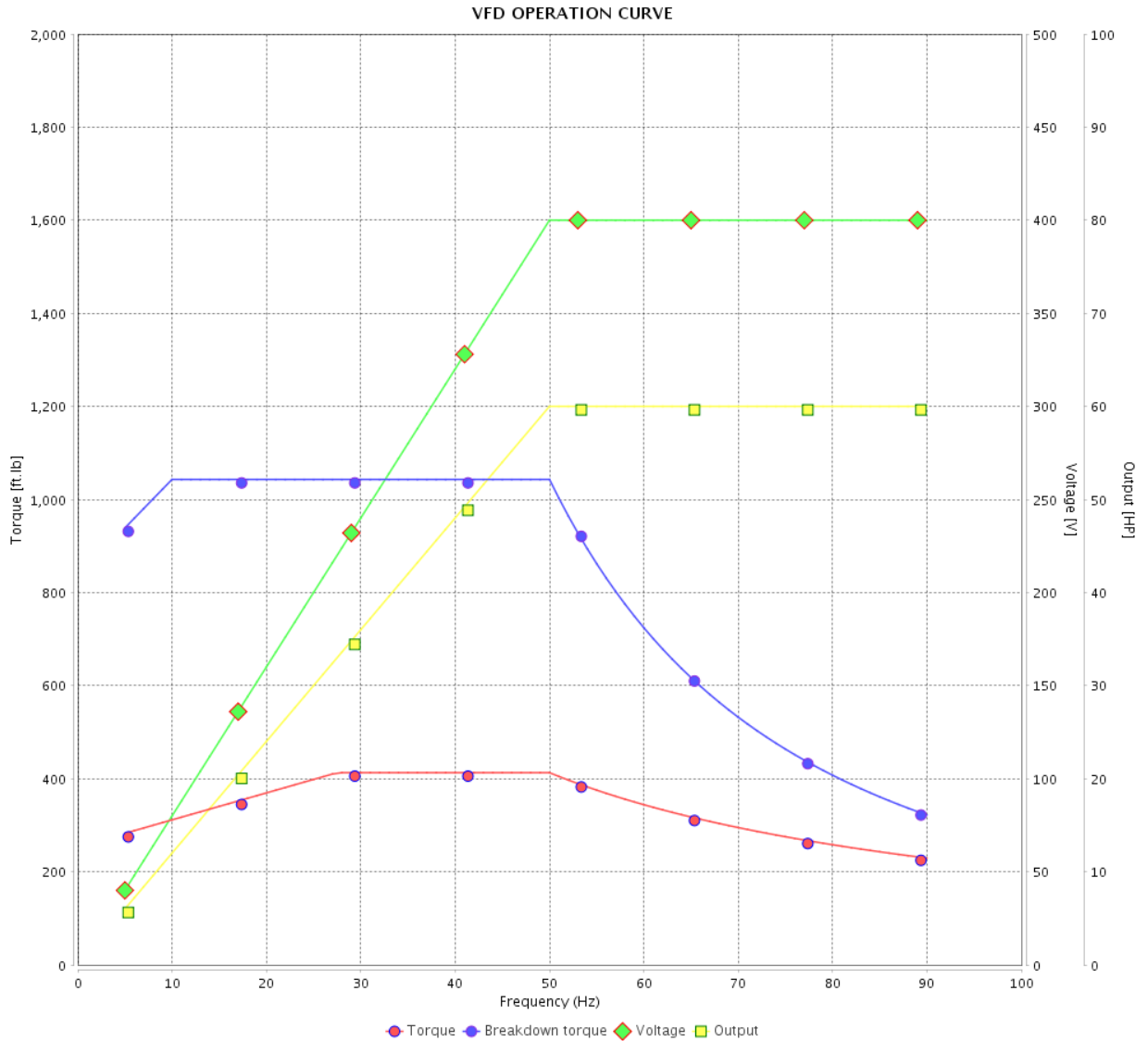
VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase
 Product code : 11568741
 Catalog # : 06009ET3E405T-W22



Performance : 400 V 50 Hz 8P IE2

Rated current	: 85.0 A	Moment of inertia (J)	: 40.2 sq.ft.lb
LRC	: 5.7	Duty cycle	: Cont.(S1)
Rated torque	: 435 ft.lb	Insulation class	: F
Locked rotor torque	: 170 %	Service factor	: 1.00
Breakdown torque	: 240 %	Temperature rise	: 105 K
Rated speed	: 725 rpm	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



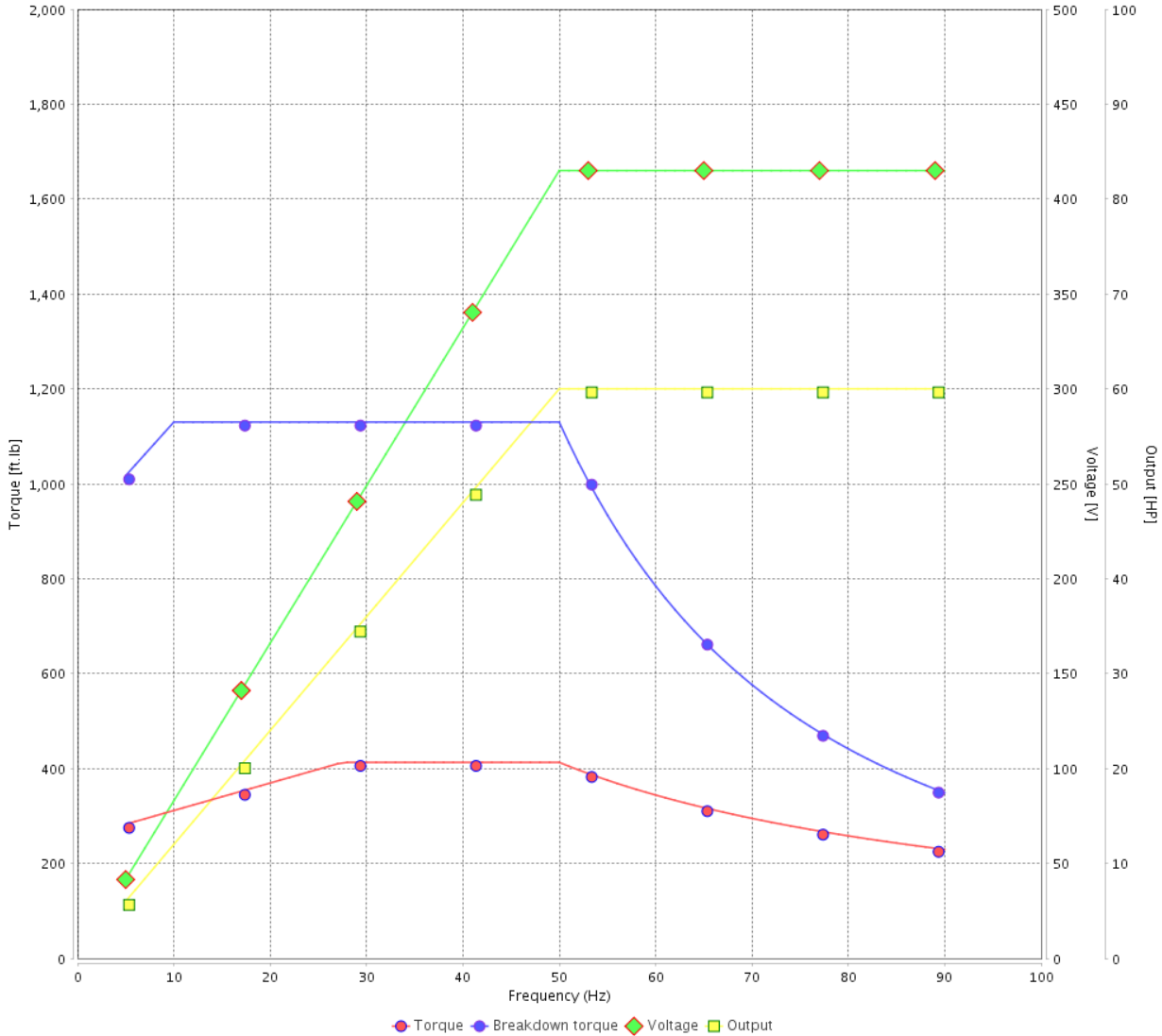
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11568741

Catalog # : 06009ET3E405T-W22

VFD OPERATION CURVE



Performance : 415 V 50 Hz 8P IE2

Rated current	: 82.9 A	Moment of inertia (J)	: 40.2 sq.ft.lb
LRC	: 6.2	Duty cycle	: Cont.(S1)
Rated torque	: 435 ft.lb	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 260 %	Temperature rise	: 105 K
Rated speed	: 725 rpm	Design	: B

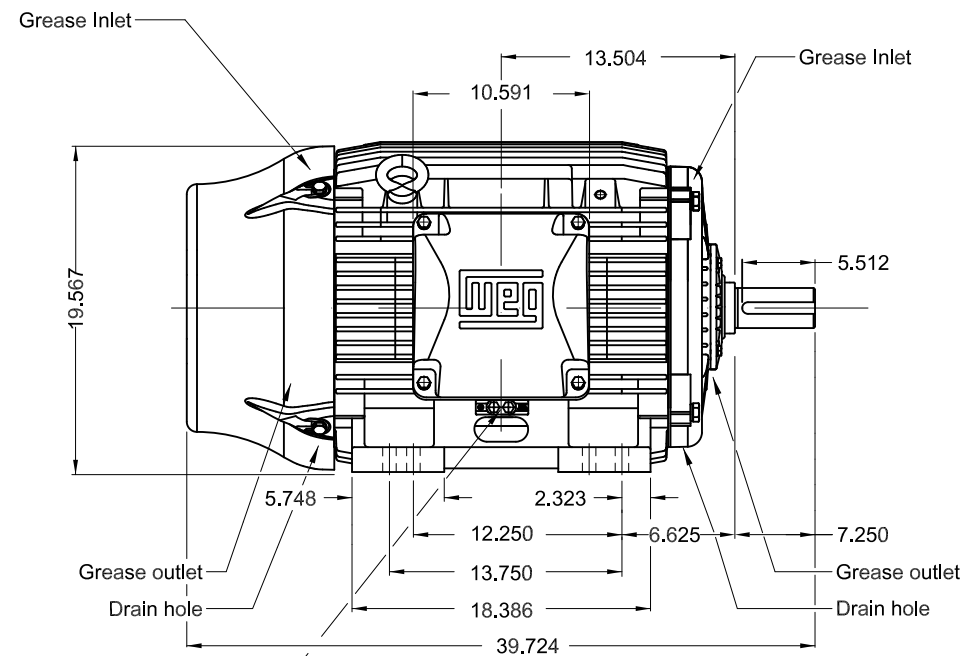
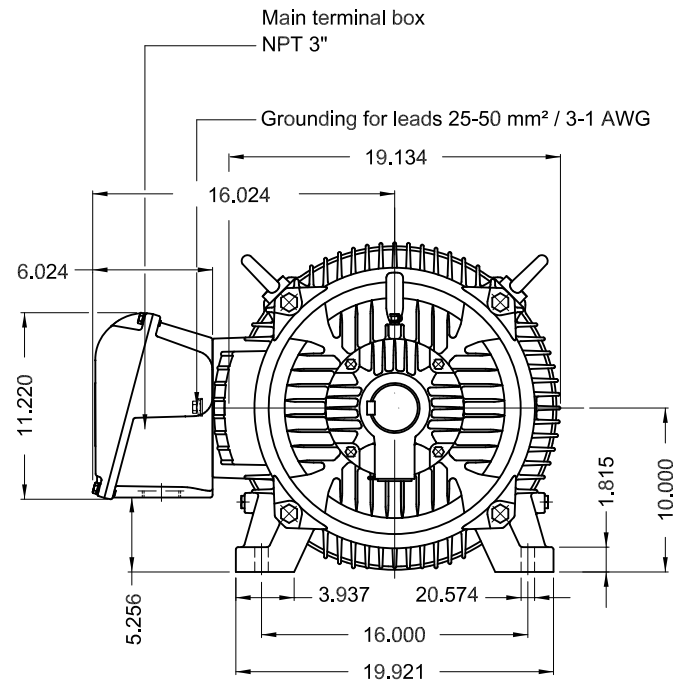
Rev.	Changes Summary	Performed	Checked	Date
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1 2 3 4 5 6

A

B

C

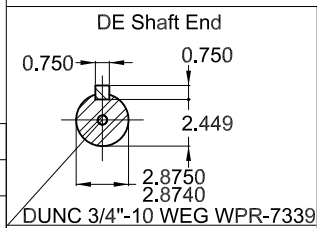


Grounding for leads 25-185 mm² / 3AWG-350MCM

D

E

Color RAL 5009
 Painting plan 203A
 Mounting B3R(D)



60 HP 08 Poles 60 Hz A

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	PIRWUSER	THREE PH. MOTOR W22 PREM. EFF. FRAME 404/5T IP55 TEFC					
CHECKED							
RELEASED							
REL DT.	WMO	Jaragua do Sul	Product Engineering	SHEET	1 / 1		

PREVIEW
 WDD



Dimensions in inches

XME A3