

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :								
Product line	: NEMA Premium Efficiency Three-Phase	Product code :	14428062					
		Catalog # :	07512ET3E405JP-W22					
Frame	: 404/5JP	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	: 1089 lb					
Protection degree	: IP55	Moment of inertia (J)	: 40.2 sq.ft.lb					
Design	: B							
Output [HP]	75	60	60	60	75	75	75	
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]	170/84.9	85.5	83.2	82.1	104	99.3	95.7	
L. R. Amperes [A]	1087/543	547	574	599	541	566	593	
LRC [A]	6.4x(Code G)	6.4x(Code G)	6.9x(Code H)	7.3x(Code J)	5.2x(Code E)	5.7x(Code F)	6.2x(Code G)	
No load current [A]	60.0/30.0	29.7	31.8	33.5	29.7	31.8	33.5	
Rated speed [RPM]	1184	985	985	985	978	981	983	
Slip [%]	1.33	1.50	1.50	1.50	2.20	1.90	1.70	
Rated torque [ft.lb]	333	320	320	320	403	401	401	
Locked rotor torque [%]	229	200	240	270	170	190	210	
Breakdown torque [%]	229	240	270	290	180	200	220	
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	30s (cold) 17s (hot)	61s (cold) 34s (hot)	57s (cold) 32s (hot)	54s (cold) 30s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)	
Noise level ²	68.0 dB(A)	64.0 dB(A)	64.0 dB(A)	64.0 dB(A)	64.0 dB(A)	64.0 dB(A)	64.0 dB(A)	
Efficiency (%)	25%	94.0	93.3	93.3	93.3	91.4	92.0	92.1
	50%	94.1	93.5	93.5	93.5	91.8	92.4	92.4
	75%	94.5	94.0	94.0	94.0	92.2	92.8	92.8
	100%	94.5	94.1	94.1	94.1	92.4	93.0	93.0
Power Factor	25%	0.49	0.44	0.40	0.38	0.55	0.51	0.49
	50%	0.74	0.66	0.62	0.60	0.79	0.76	0.74
	75%	0.83	0.79	0.75	0.74	0.85	0.84	0.83
	100%	0.86	0.85	0.83	0.81	0.87	0.86	0.86
Bearing type	: 6314 C3	6314 C3	Foundation loads					
Sealing	: Lip Seal	Lip Seal	Max. traction	: 2101 lb				
Lubrication interval	: 17000 h	17000 h	Max. compression	: 3190 lb				
Lubricant amount	: 27 g	27 g						
Lubricant type	: Mobil Polyrex EM							
Notes USABLE @208V 188A SF 1.10 SFA 207A								
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



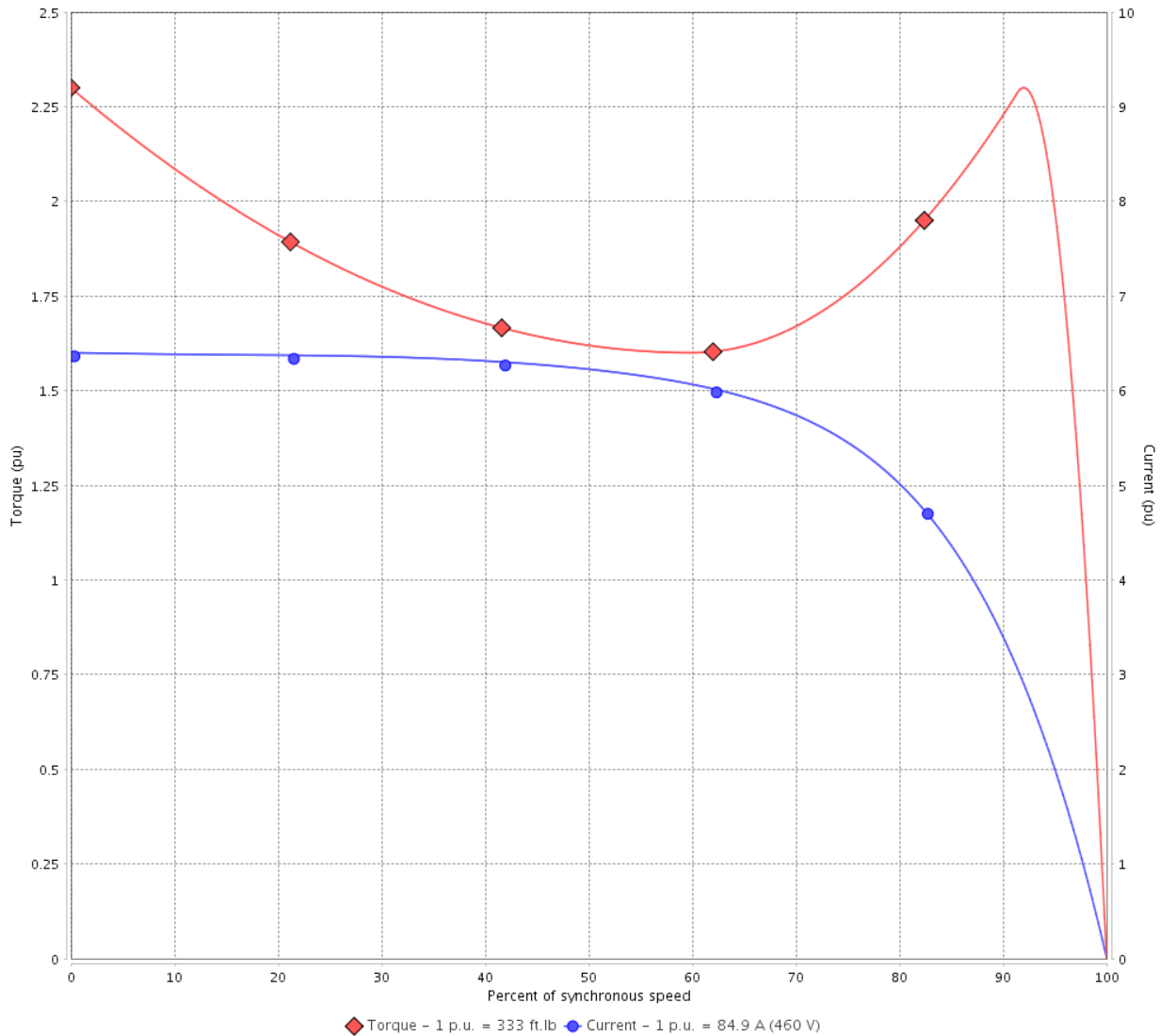
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 14428062

Catalog # : 07512ET3E405JP-W22

TORQUE AND CURRENT VS SPEED CURVE



Performance : 230/460 V 60 Hz 6P

Rated current	: 170/84.9 A	Moment of inertia (J)	: 40.2 sq.ft.lb
LRC	: 6.4	Duty cycle	: Cont.(S1)
Rated torque	: 333 ft.lb	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.25
Breakdown torque	: 229 %	Temperature rise	: 80 K
Rated speed	: 1184 rpm	Design	: B

Locked rotor time : 30s (cold) 17s (hot)

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TORQUE AND CURRENT VS SPEED CURVE



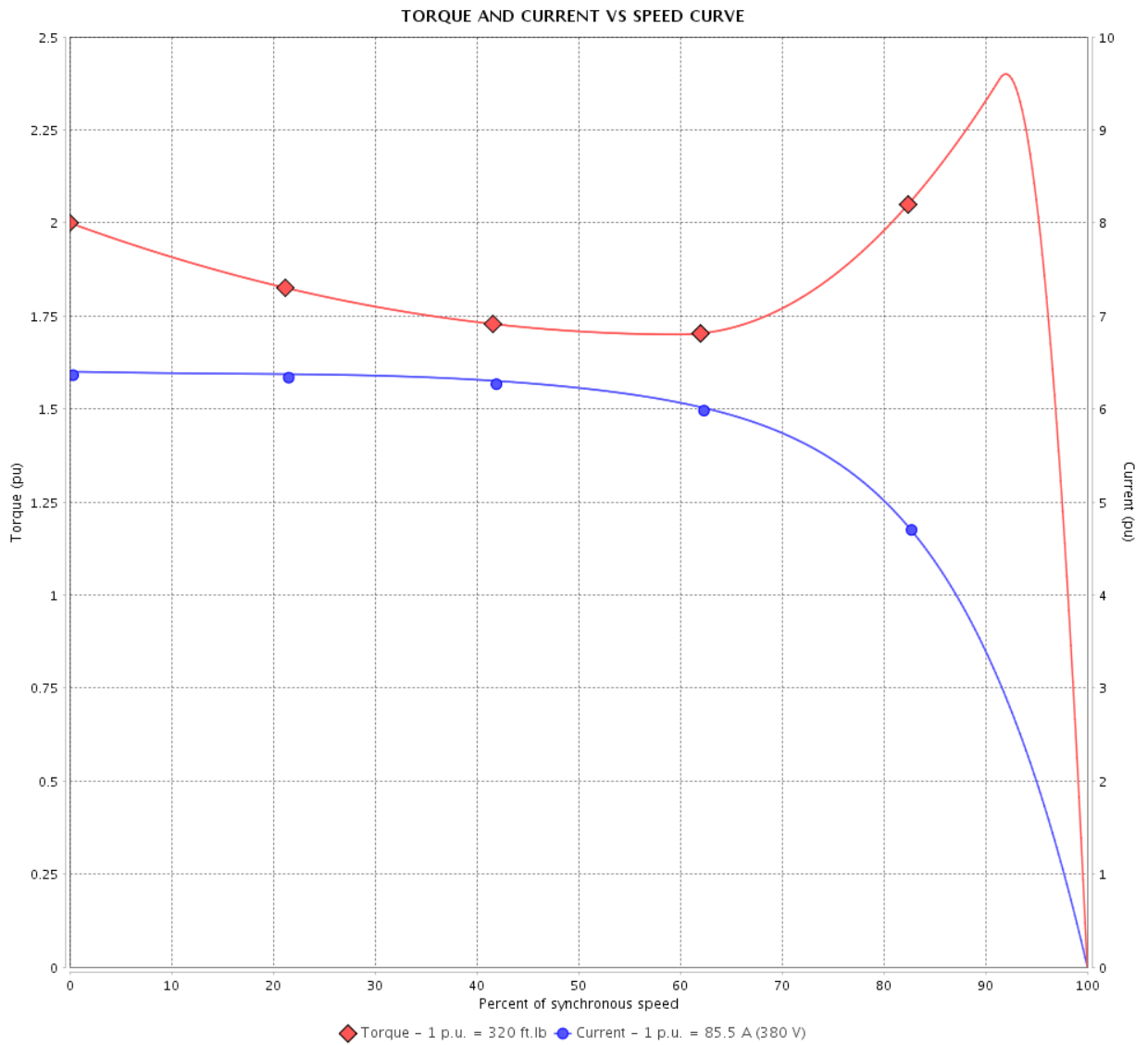
Three Phase Induction Motor - Squirrel Cage

Customer :

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Product code : 14428062

Catalog # : 07512ET3E405JP-W22



Performance : 380 V 50 Hz 6P IE3

Rated current	: 85.5 A	Moment of inertia (J)	: 40.2 sq.ft.lb
LRC	: 6.4	Duty cycle	: Cont.(S1)
Rated torque	: 320 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.00
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 985 rpm	Design	: B

Locked rotor time : 61s (cold) 34s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



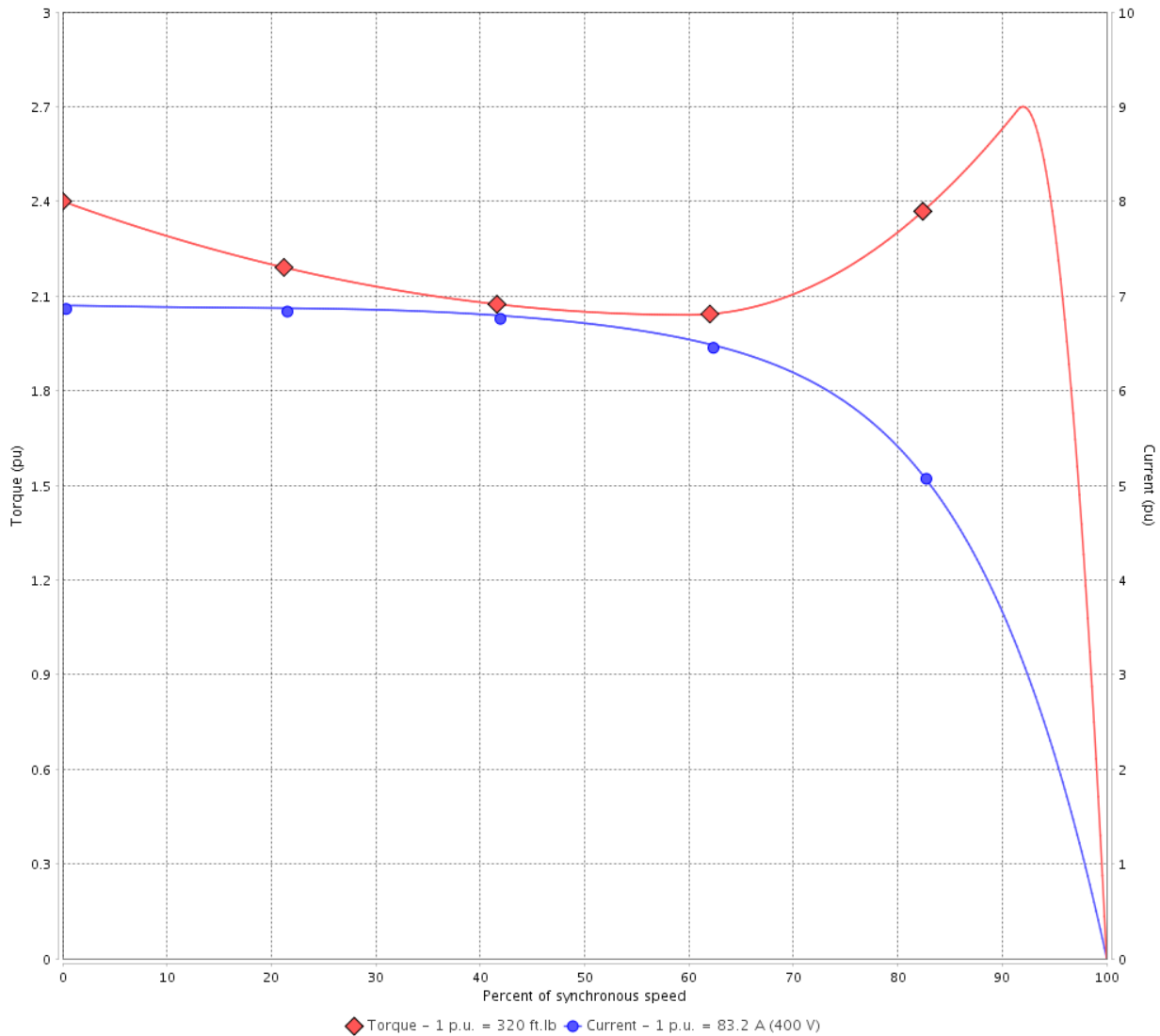
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Catalog # : 07512ET3E405JP-W22

TORQUE AND CURRENT VS SPEED CURVE



Performance : 400 V 50 Hz 6P IE3

Rated current	: 83.2 A	Moment of inertia (J)	: 40.2 sq.ft.lb
LRC	: 6.9	Duty cycle	: Cont.(S1)
Rated torque	: 320 ft.lb	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.00
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 985 rpm	Design	: B

Locked rotor time : 57s (cold) 32s (hot)

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TORQUE AND CURRENT VS SPEED CURVE



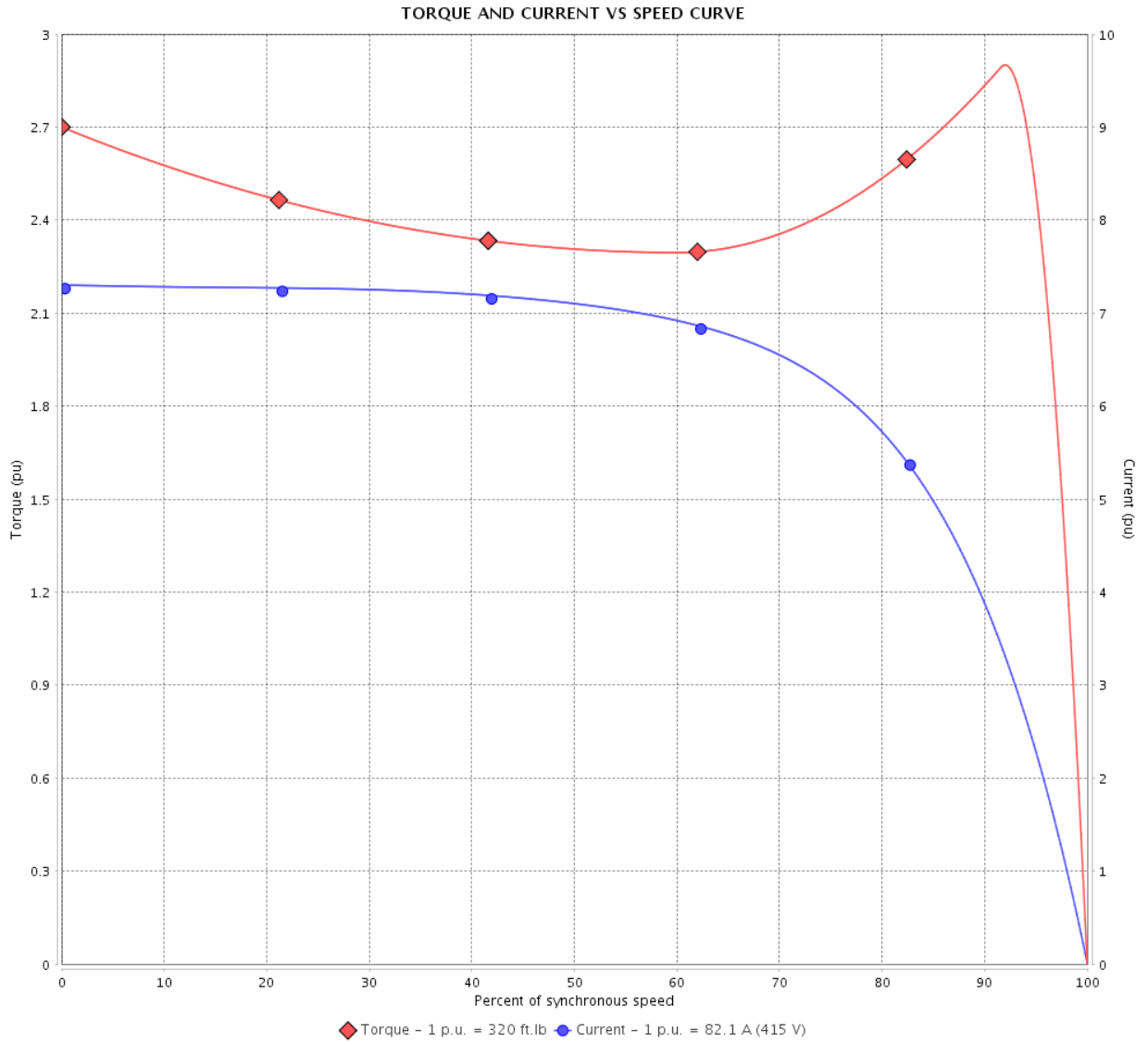
Three Phase Induction Motor - Squirrel Cage

Customer :

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Product code : 14428062

Catalog # : 07512ET3E405JP-W22



Performance : 415 V 50 Hz 6P IE3

Rated current	: 82.1 A	Moment of inertia (J)	: 40.2 sq.ft.lb
LRC	: 7.3	Duty cycle	: Cont.(S1)
Rated torque	: 320 ft.lb	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.00
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 985 rpm	Design	: B

Locked rotor time : 54s (cold) 30s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



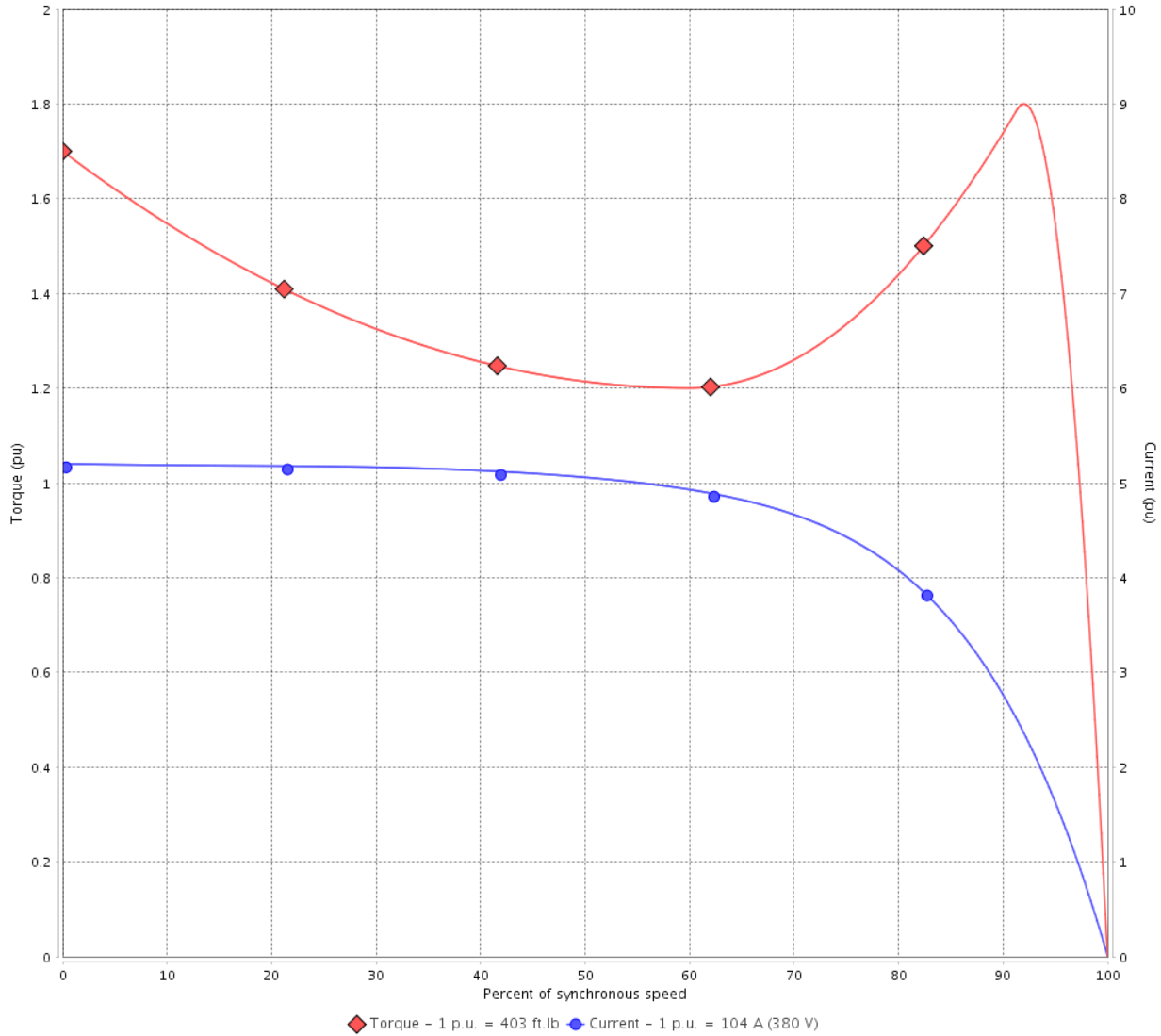
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TORQUE AND CURRENT VS SPEED CURVE



Performance : 380 V 50 Hz 6P IE1

Rated current	: 104 A	Moment of inertia (J)	: 40.2 sq.ft.lb
LRC	: 5.2	Duty cycle	: Cont.(S1)
Rated torque	: 403 ft.lb	Insulation class	: F
Locked rotor torque	: 170 %	Service factor	: 1.00
Breakdown torque	: 180 %	Temperature rise	: 105 K
Rated speed	: 978 rpm	Design	: B

Locked rotor time : 25s (cold) 14s (hot)

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TORQUE AND CURRENT VS SPEED CURVE



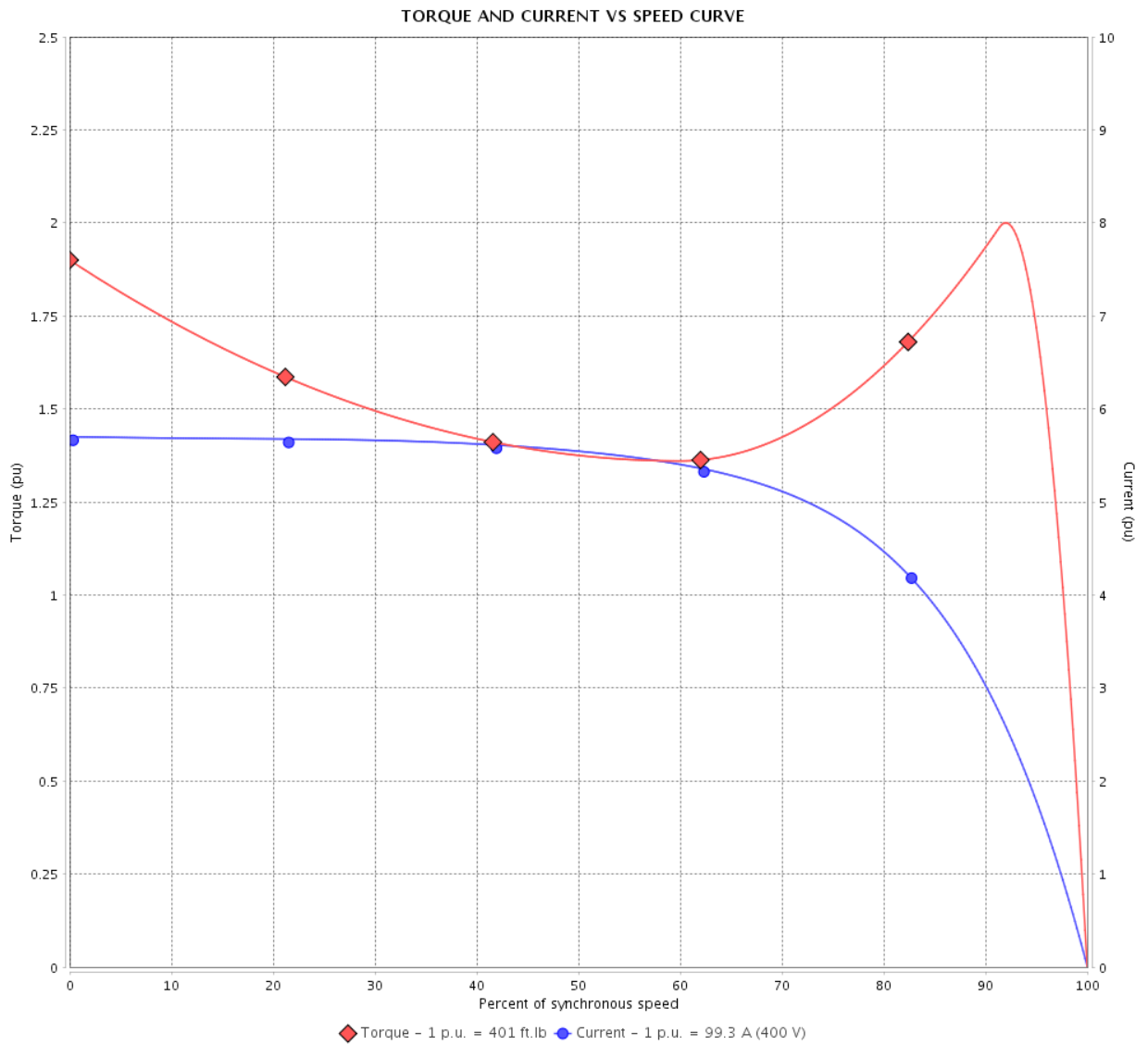
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Performance : 400 V 50 Hz 6P IE1

Rated current	: 99.3 A	Moment of inertia (J)	: 40.2 sq.ft.lb
LRC	: 5.7	Duty cycle	: Cont.(S1)
Rated torque	: 401 ft.lb	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 200 %	Temperature rise	: 105 K
Rated speed	: 981 rpm	Design	: B

Locked rotor time : 25s (cold) 14s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



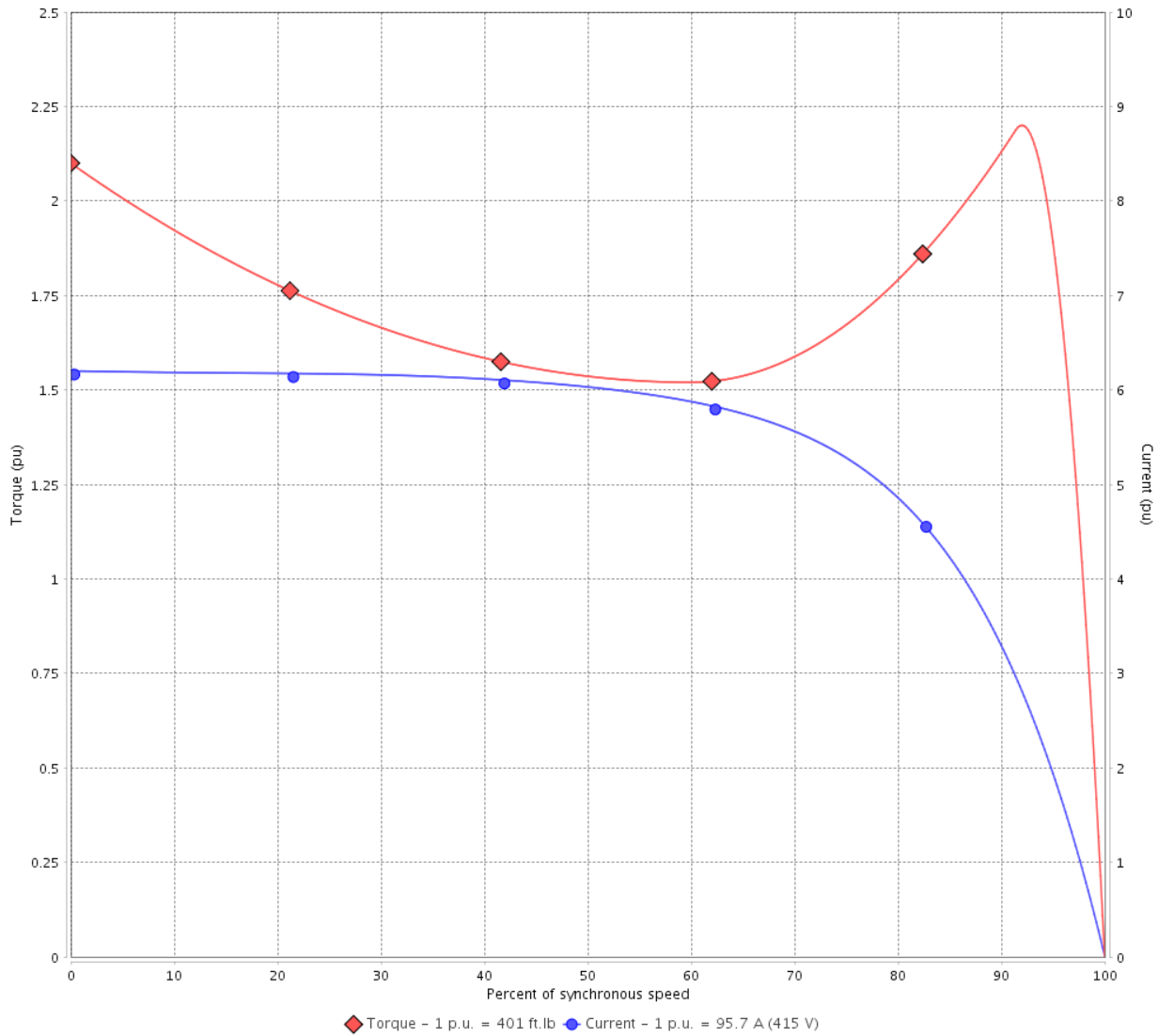
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Catalog # : 07512ET3E405JP-W22

TORQUE AND CURRENT VS SPEED CURVE



Performance : 415 V 50 Hz 6P IE1

Rated current	: 95.7 A	Moment of inertia (J)	: 40.2 sq.ft.lb
LRC	: 6.2	Duty cycle	: Cont.(S1)
Rated torque	: 401 ft.lb	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.00
Breakdown torque	: 220 %	Temperature rise	: 105 K
Rated speed	: 983 rpm	Design	: B

Locked rotor time : 25s (cold) 14s (hot)

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Three Phase Induction Motor - Squirrel Cage

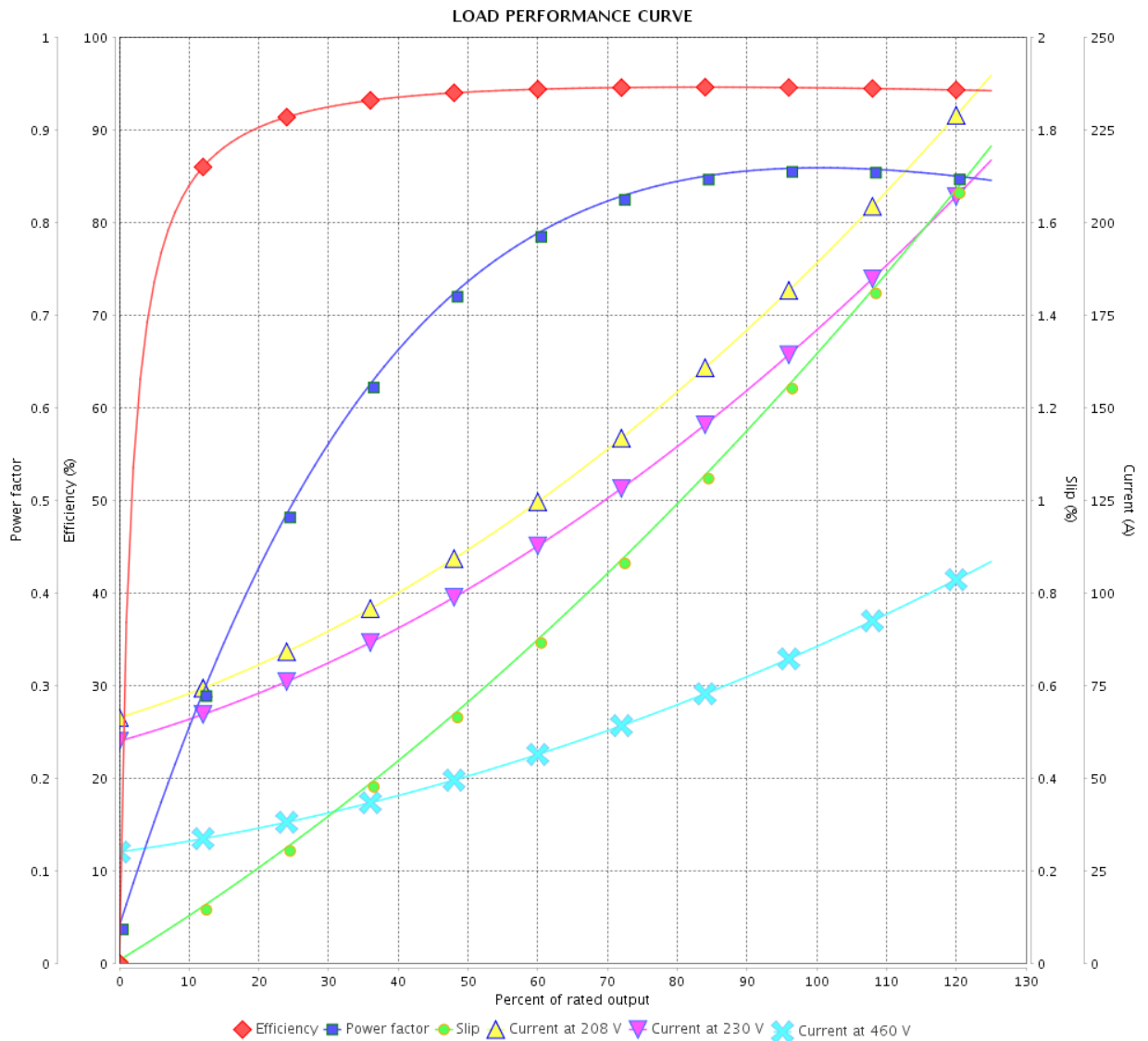


Customer :

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Product code : 14428062

Catalog # : 07512ET3E405JP-W22



Performance : 230/460 V 60 Hz 6P

Rated current : 170/84.9 A
 LRC : 6.4
 Rated torque : 333 ft.lb
 Locked rotor torque : 229 %
 Breakdown torque : 229 %
 Rated speed : 1184 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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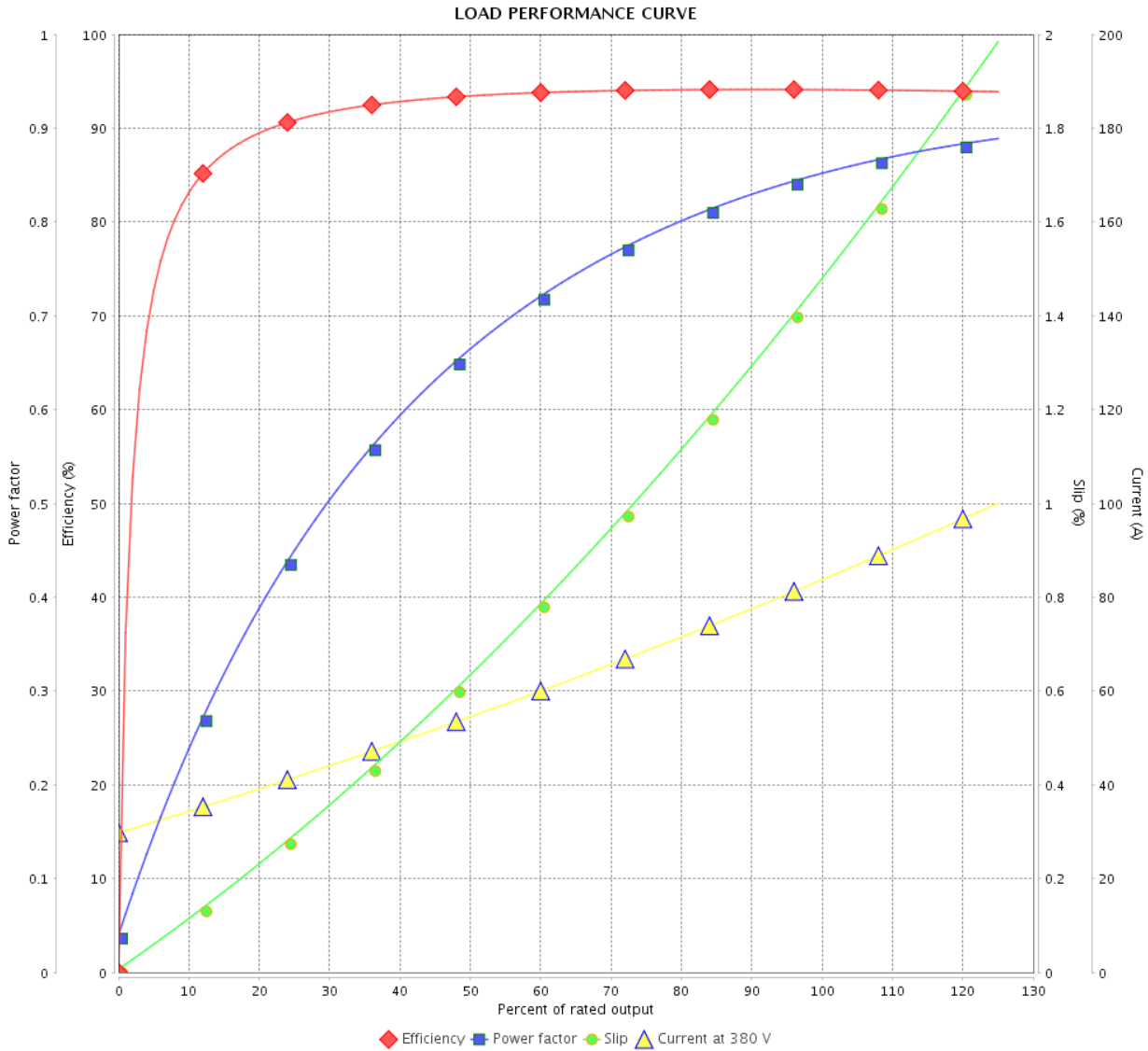


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Product code : 14428062

Catalog # : 07512ET3E405JP-W22



Performance : 380 V 50 Hz 6P IE3

Rated current : 85.5 A
 LRC : 6.4
 Rated torque : 320 ft.lb
 Locked rotor torque : 200 %
 Breakdown torque : 240 %
 Rated speed : 985 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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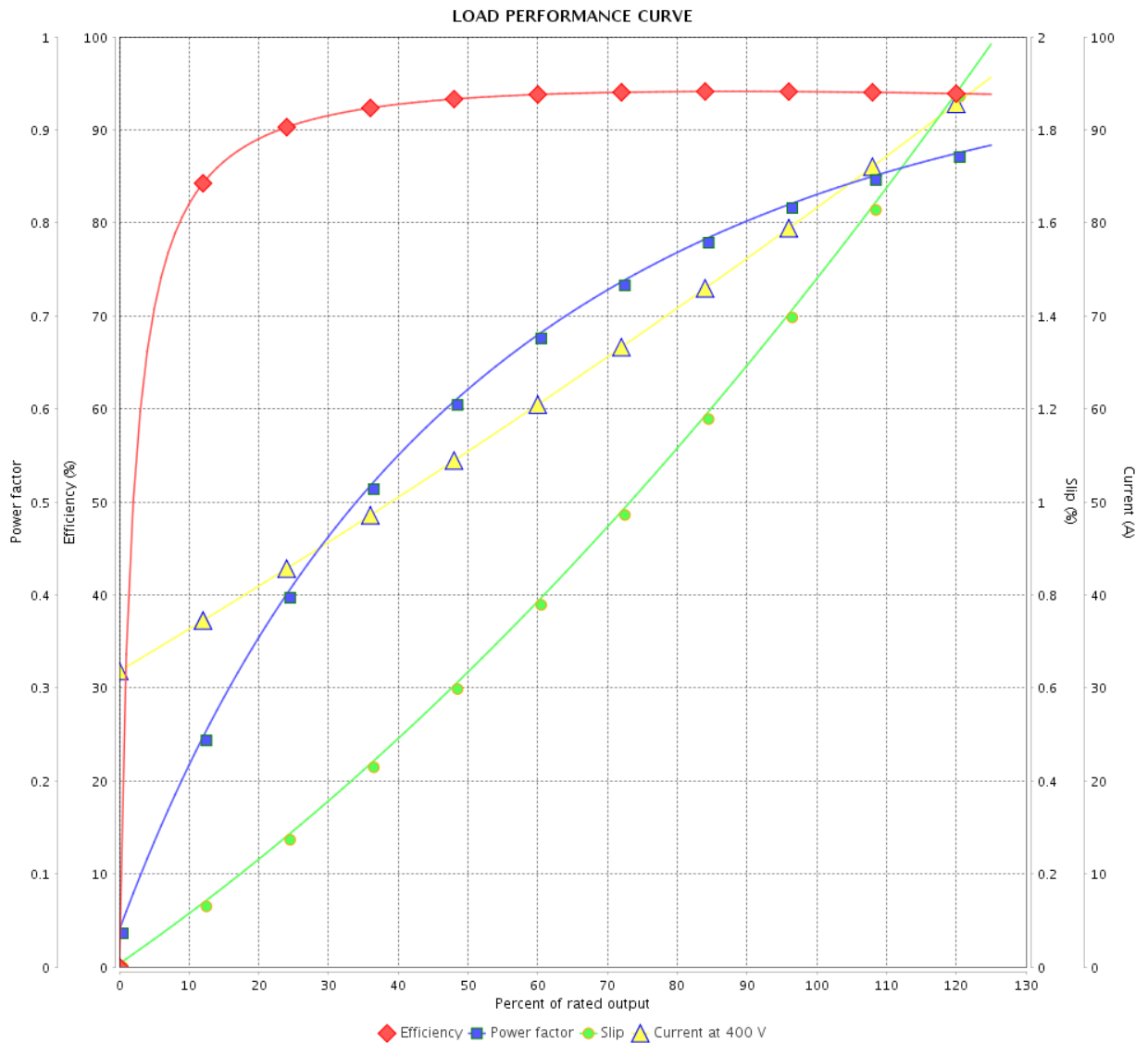


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Performance : 400 V 50 Hz 6P IE3

Rated current : 83.2 A
 LRC : 6.9
 Rated torque : 320 ft.lb
 Locked rotor torque : 240 %
 Breakdown torque : 270 %
 Rated speed : 985 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

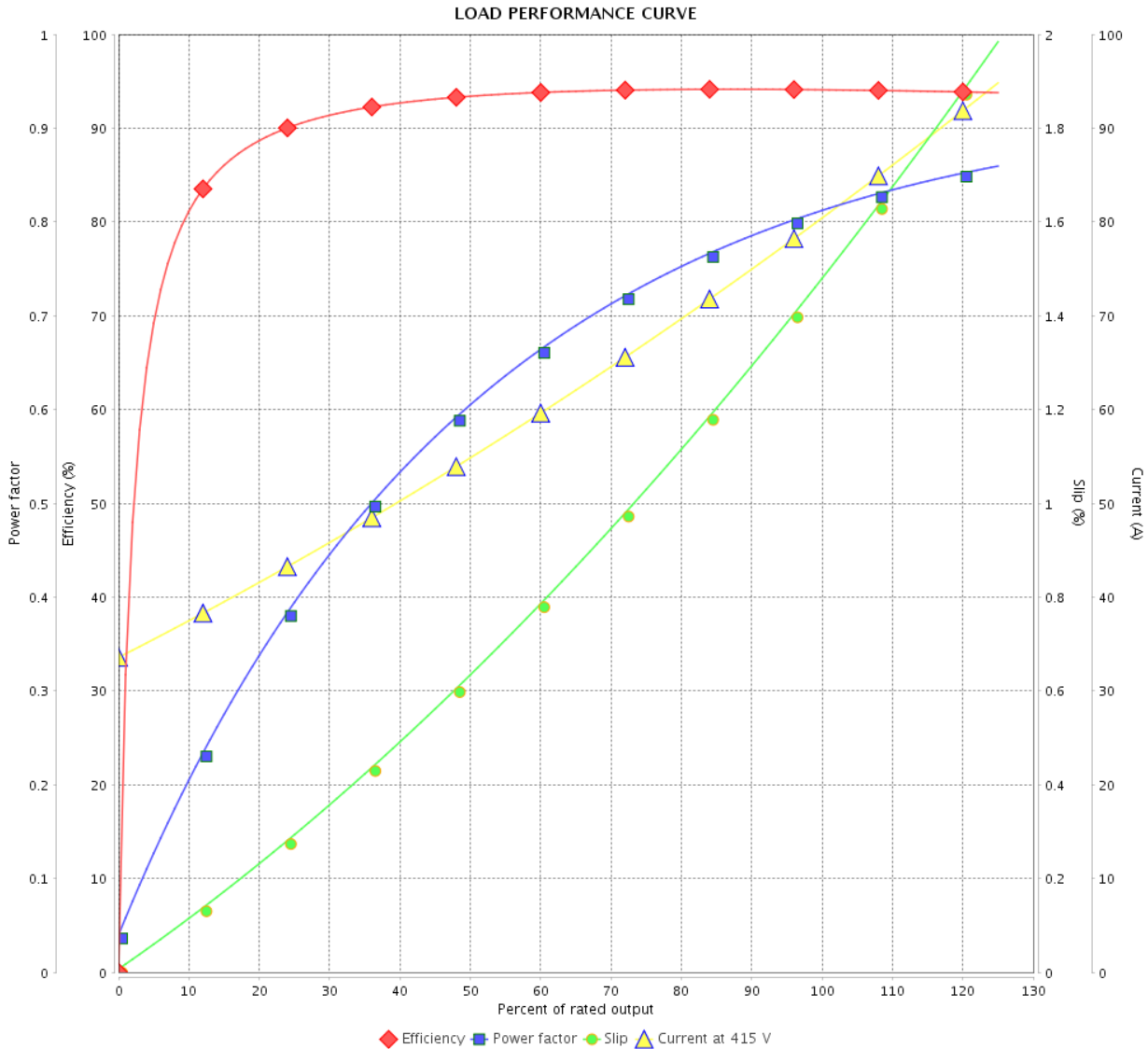


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Product code : 14428062

Catalog # : 07512ET3E405JP-W22



Performance : 415 V 50 Hz 6P IE3

Rated current	: 82.1 A	Moment of inertia (J)	: 40.2 sq.ft.lb
LRC	: 7.3	Duty cycle	: Cont.(S1)
Rated torque	: 320 ft.lb	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.00
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 985 rpm	Design	: B

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Three Phase Induction Motor - Squirrel Cage

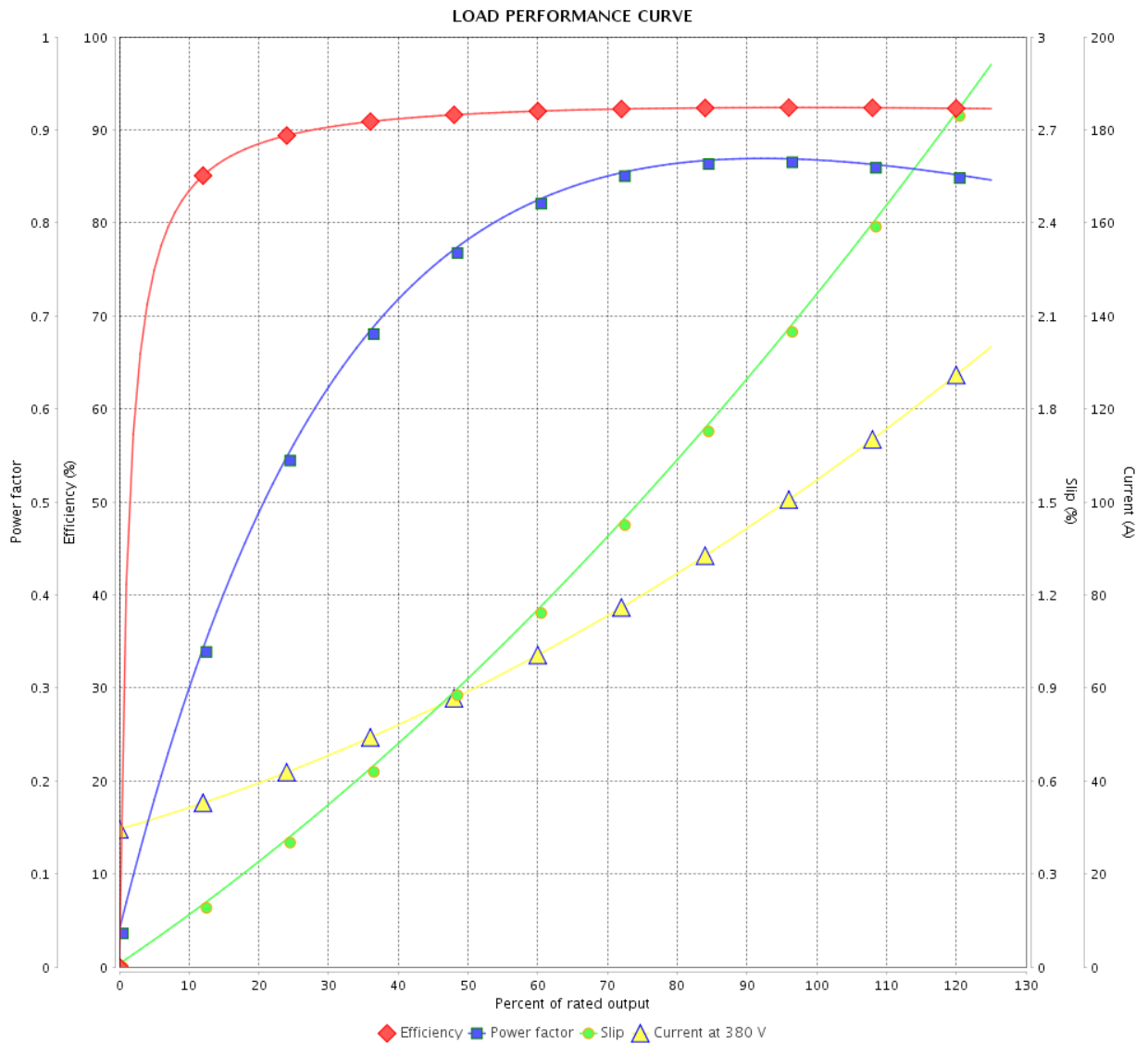


Customer : _____

Product line : NEMA Premium Efficiency Three-Phase

Product code : 14428062

Catalog # : 07512ET3E405JP-W22



Performance : 380 V 50 Hz 6P IE1

Rated current : 104 A
 LRC : 5.2
 Rated torque : 403 ft.lb
 Locked rotor torque : 170 %
 Breakdown torque : 180 %
 Rated speed : 978 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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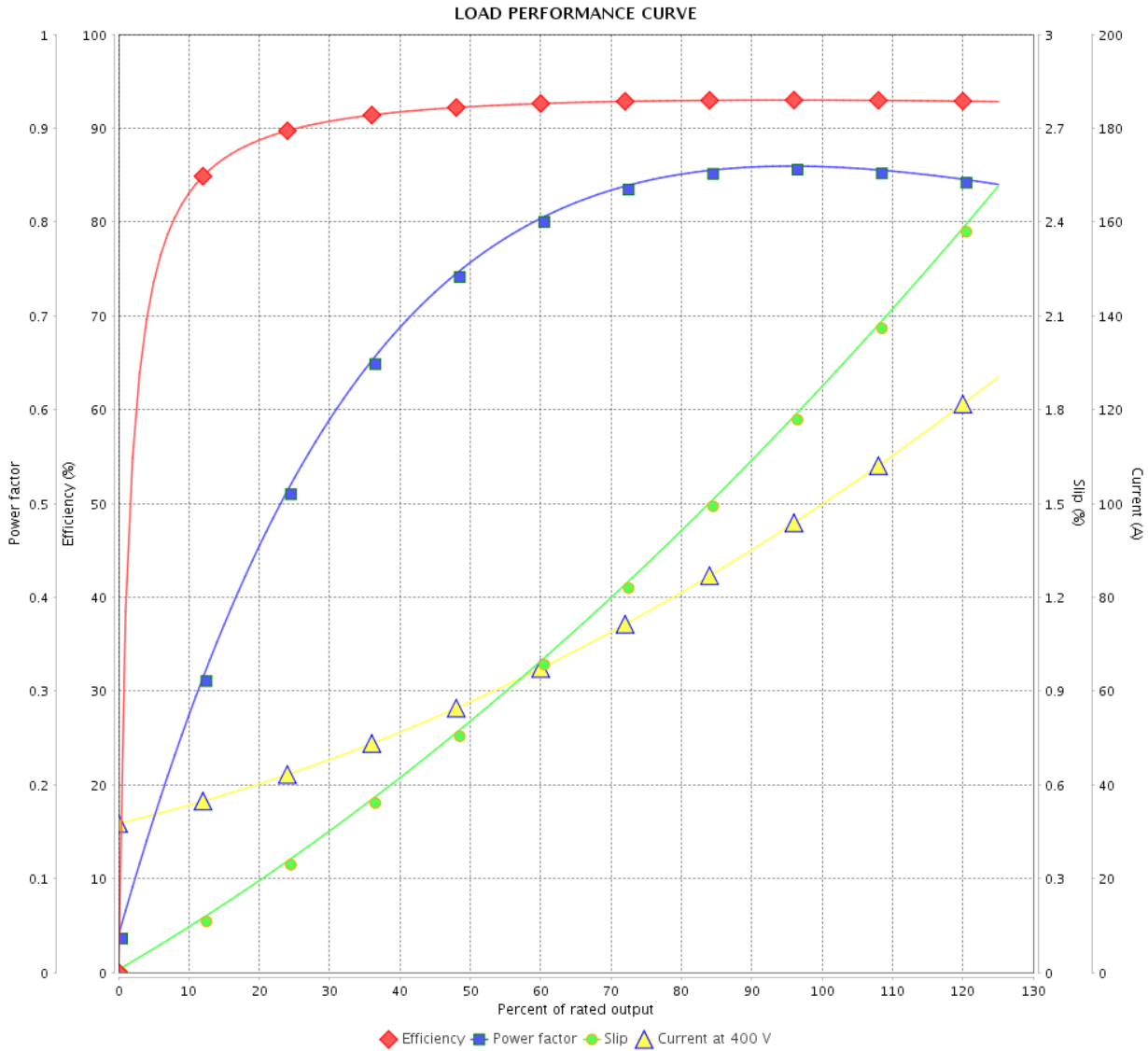


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Performance : 400 V 50 Hz 6P IE1

Rated current : 99.3 A
 LRC : 5.7
 Rated torque : 401 ft.lb
 Locked rotor torque : 190 %
 Breakdown torque : 200 %
 Rated speed : 981 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

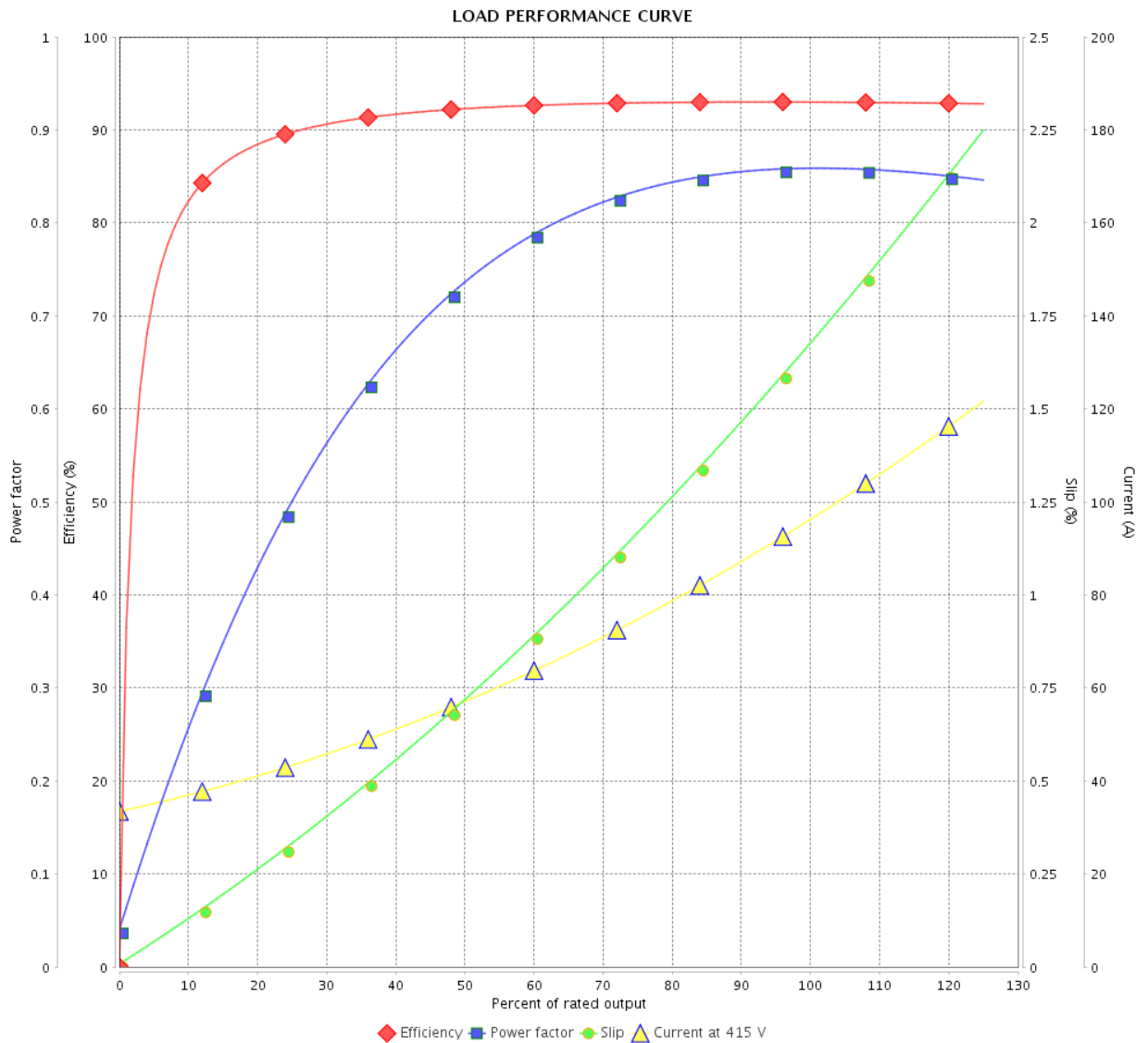


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 14428062

Catalog # : 07512ET3E405JP-W22



Performance : 415 V 50 Hz 6P IE1

Rated current : 95.7 A
 LRC : 6.2
 Rated torque : 401 ft.lb
 Locked rotor torque : 210 %
 Breakdown torque : 220 %
 Rated speed : 983 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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THERMAL LIMIT CURVE



Three Phase Induction Motor - Squirrel Cage

Customer :

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Performance : 230/460 V 60 Hz 6P

Rated current : 170/84.9 A	Moment of inertia (J) : 40.2 sq.ft.lb
LRC : 6.4	Duty cycle : Cont.(S1)
Rated torque : 333 ft.lb	Insulation class : F
Locked rotor torque : 229 %	Service factor : 1.25
Breakdown torque : 229 %	Temperature rise : 80 K
Rated speed : 1184 rpm	Design : B

Heating constant

Cooling constant

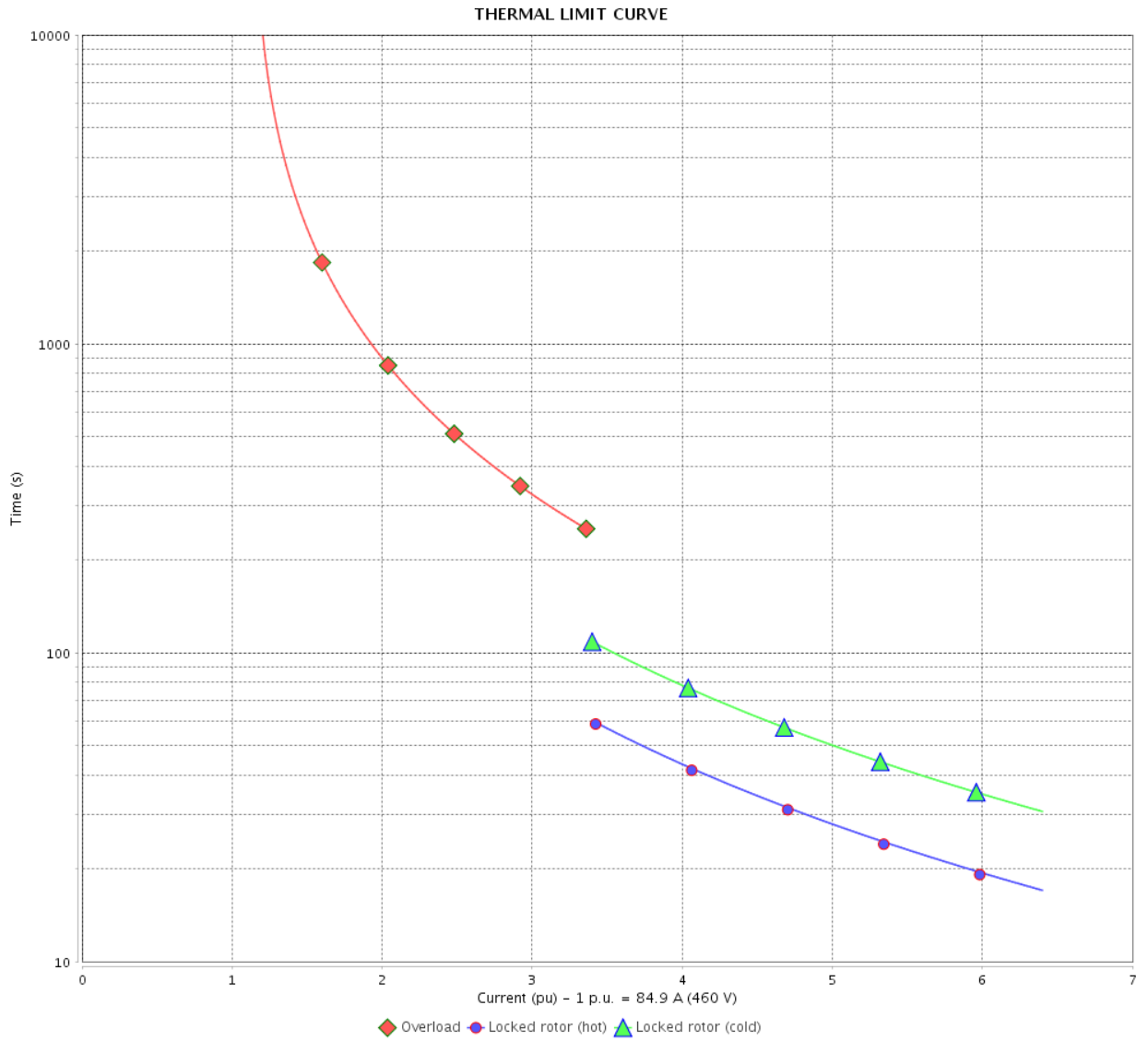
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Three Phase Induction Motor - Squirrel Cage



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Performance : 380 V 50 Hz 6P IE3

Rated current	: 85.5 A	Moment of inertia (J)	: 40.2 sq.ft.lb
LRC	: 6.4	Duty cycle	: Cont.(S1)
Rated torque	: 320 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.00
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 985 rpm	Design	: B

Heating constant

Cooling constant

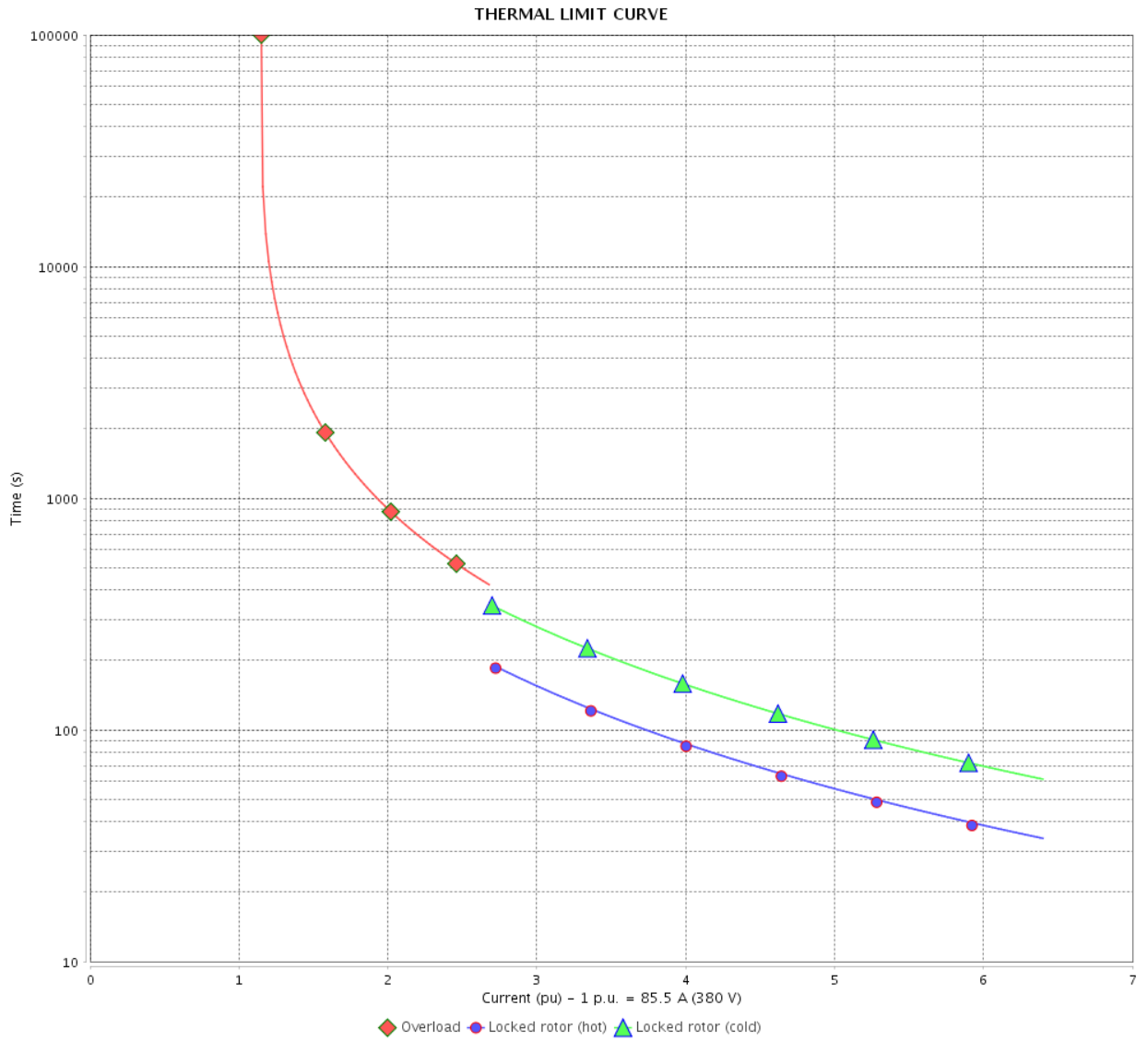
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Three Phase Induction Motor - Squirrel Cage



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Performance : 400 V 50 Hz 6P IE3

Rated current	: 83.2 A	Moment of inertia (J)	: 40.2 sq.ft.lb
LRC	: 6.9	Duty cycle	: Cont.(S1)
Rated torque	: 320 ft.lb	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.00
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 985 rpm	Design	: B

Heating constant

Cooling constant

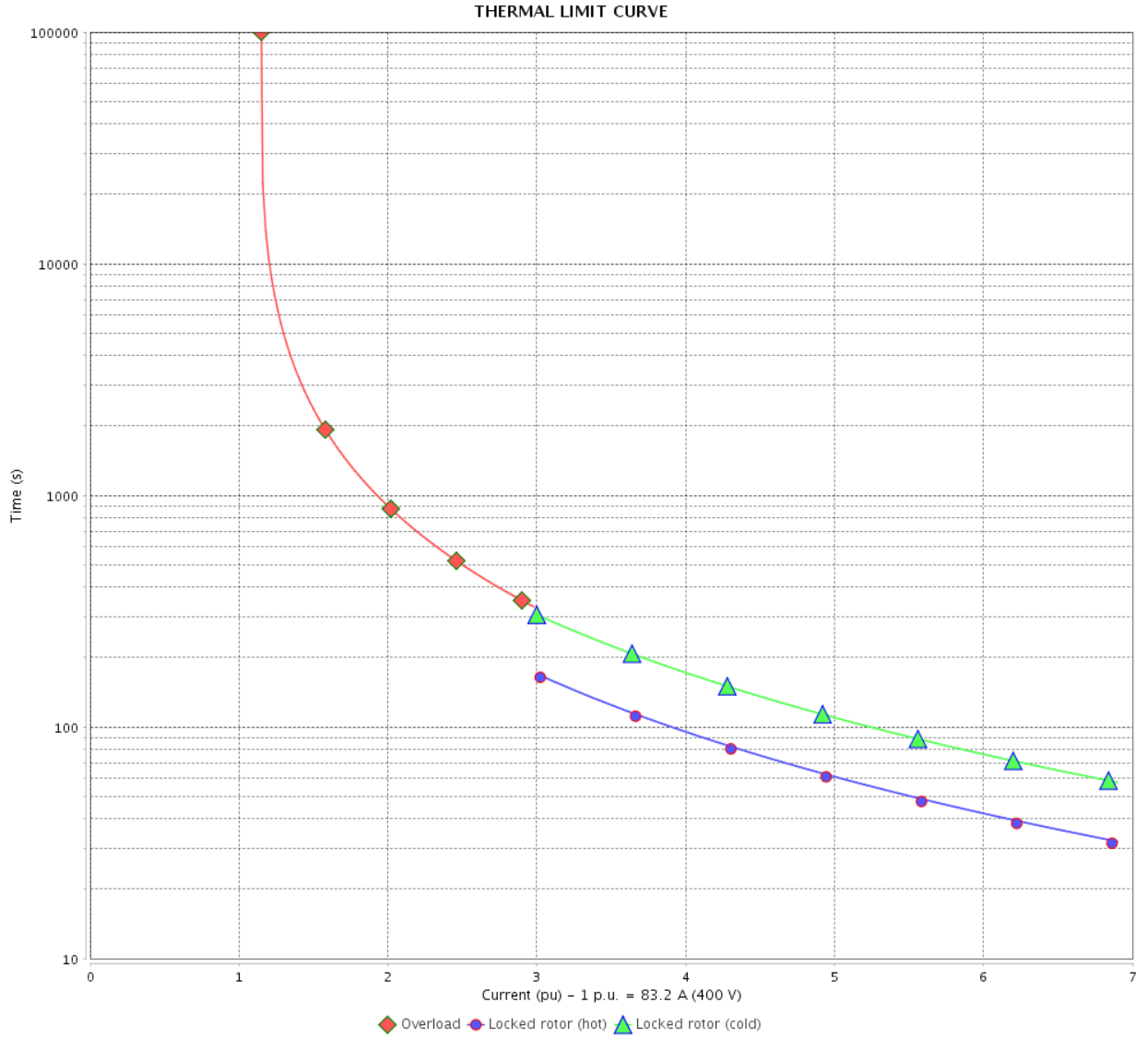
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LRC	: 7.3	Duty cycle	: Cont.(S1)
Rated torque	: 320 ft.lb	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.00
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 985 rpm	Design	: B

Heating constant

Cooling constant

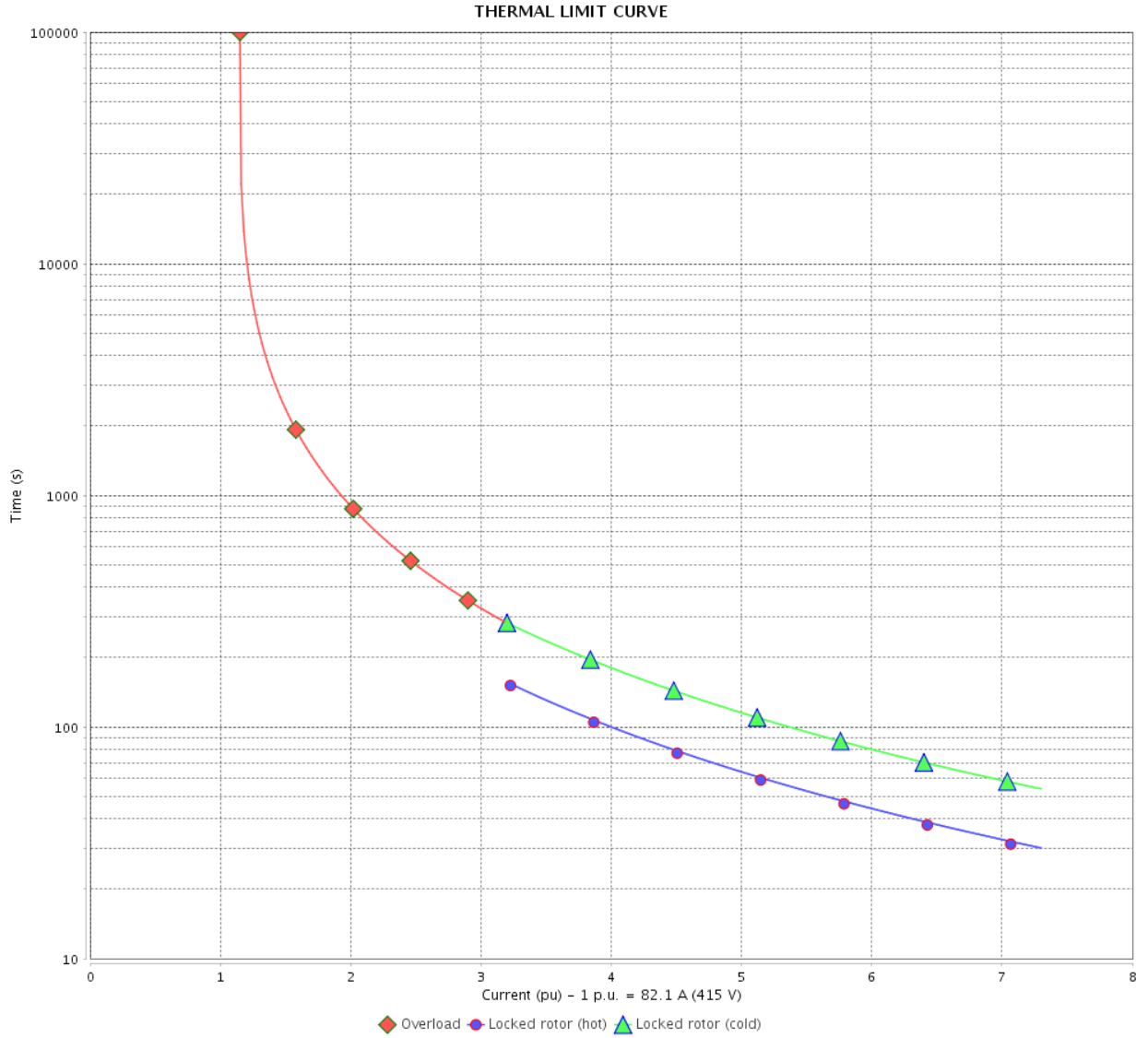
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Performance : 380 V 50 Hz 6P IE1

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LRC : 5.2	Duty cycle : Cont.(S1)
Rated torque : 403 ft.lb	Insulation class : F
Locked rotor torque : 170 %	Service factor : 1.00
Breakdown torque : 180 %	Temperature rise : 105 K
Rated speed : 978 rpm	Design : B

Heating constant

Cooling constant

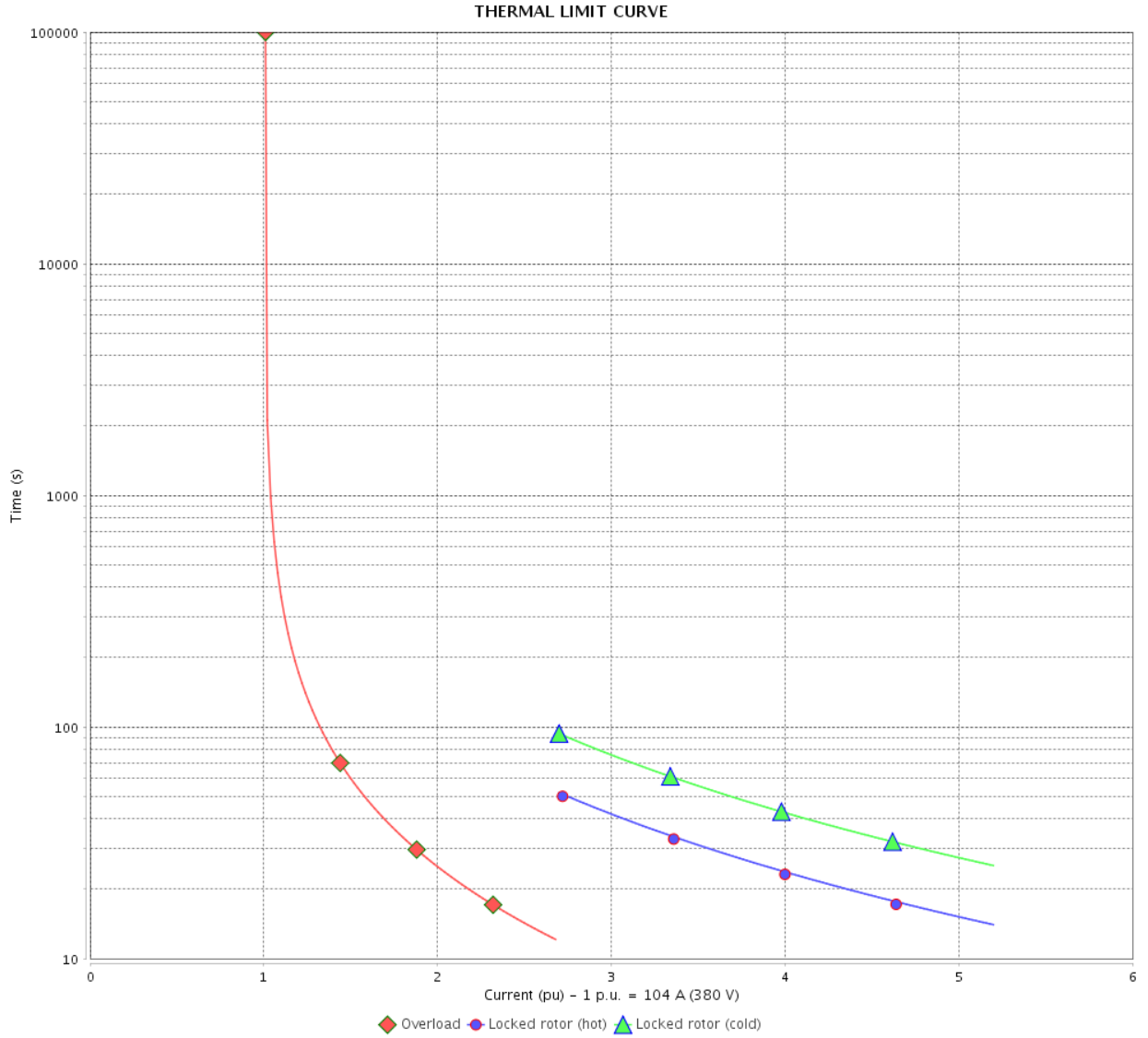
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Heating constant

Cooling constant

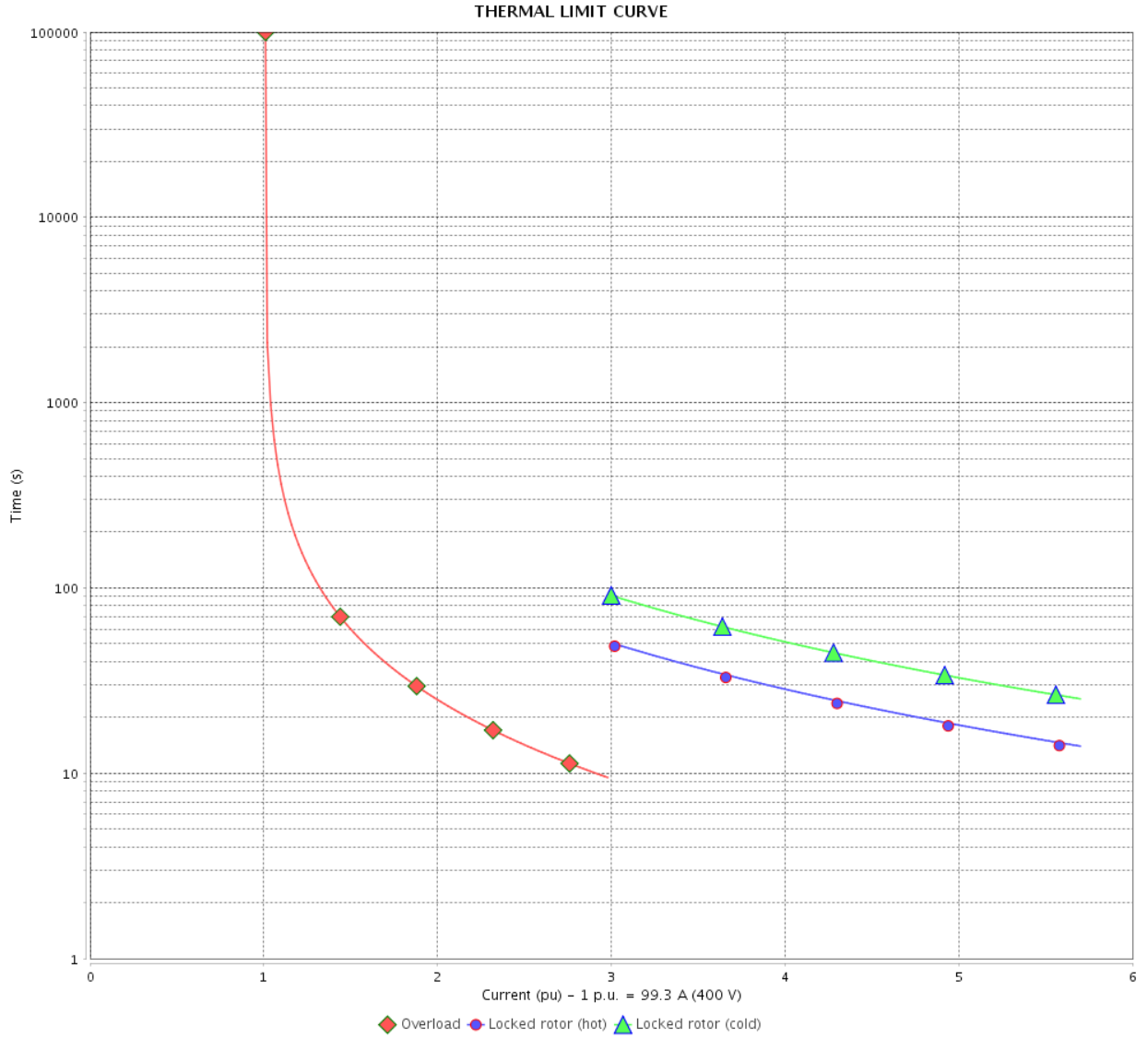
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	13/04/2022		26 / 36	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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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 : 14428062
Catalog # : 07512ET3E405JP-W22

Performance : 415 V 50 Hz 6P IE1

Rated current	: 95.7 A	Moment of inertia (J)	: 40.2 sq.ft.lb
LRC	: 6.2	Duty cycle	: Cont.(S1)
Rated torque	: 401 ft.lb	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.00
Breakdown torque	: 220 %	Temperature rise	: 105 K
Rated speed	: 983 rpm	Design	: B

Heating constant

Cooling constant

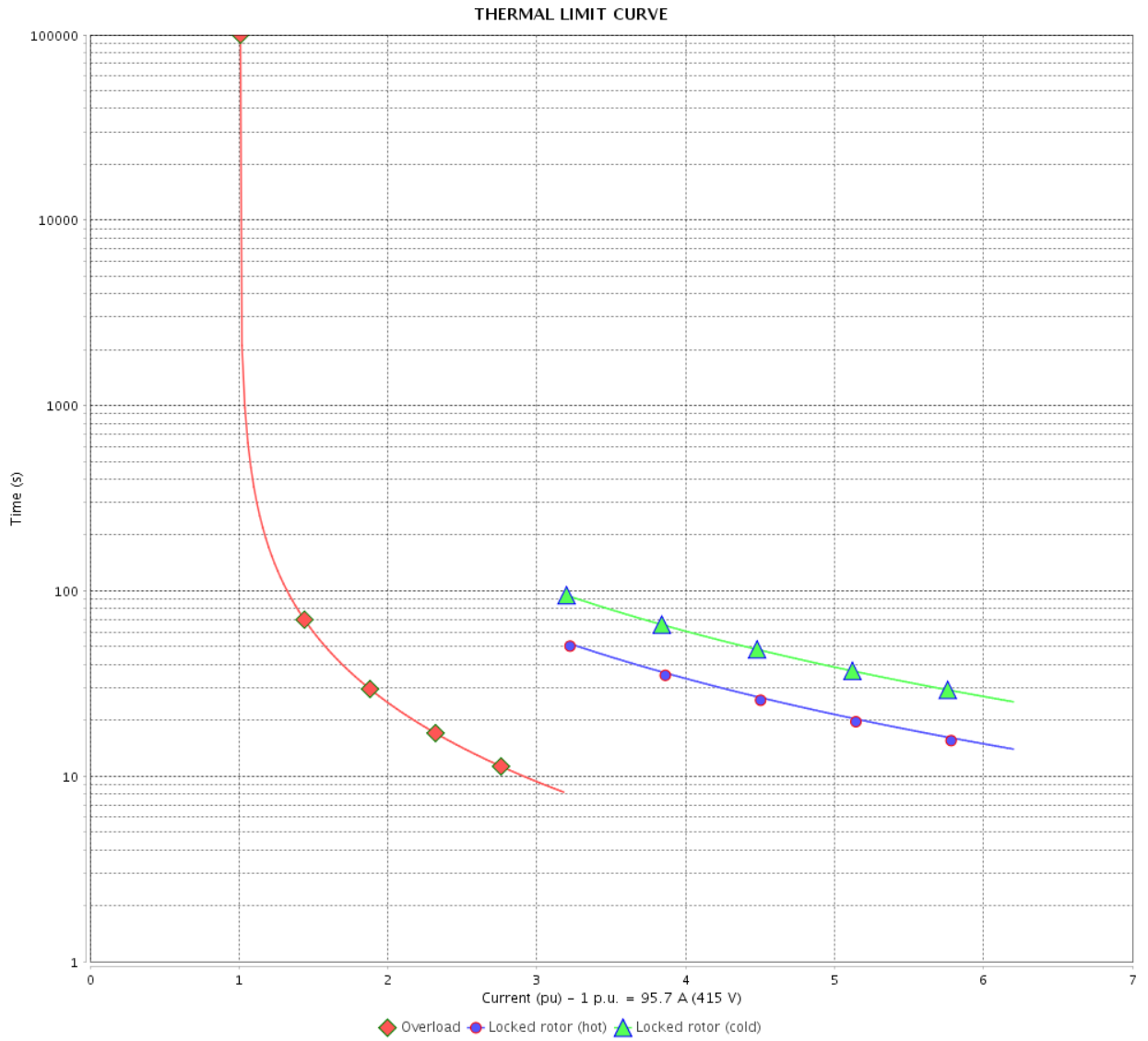
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Checked by			Page	Revision
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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Performed by		Page		Revision
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Date		13/04/2022		

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



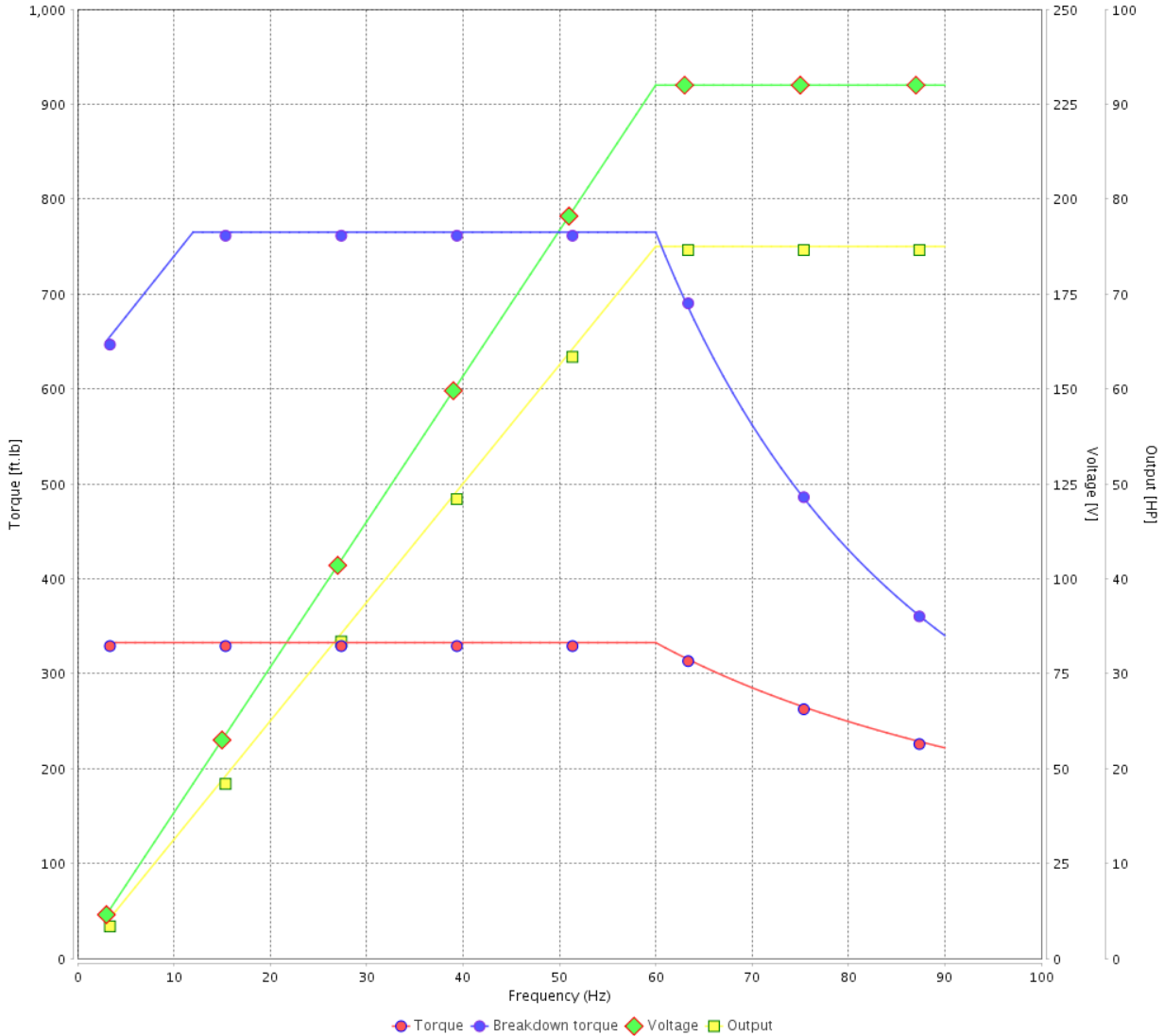
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 14428062

Catalog # : 07512ET3E405JP-W22

VFD OPERATION CURVE



Performance : 230/460 V 60 Hz 6P

Rated current : 170/84.9 A
 LRC : 6.4
 Rated torque : 333 ft.lb
 Locked rotor torque : 229 %
 Breakdown torque : 229 %
 Rated speed : 1184 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	Revision
Checked by				
Date				

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

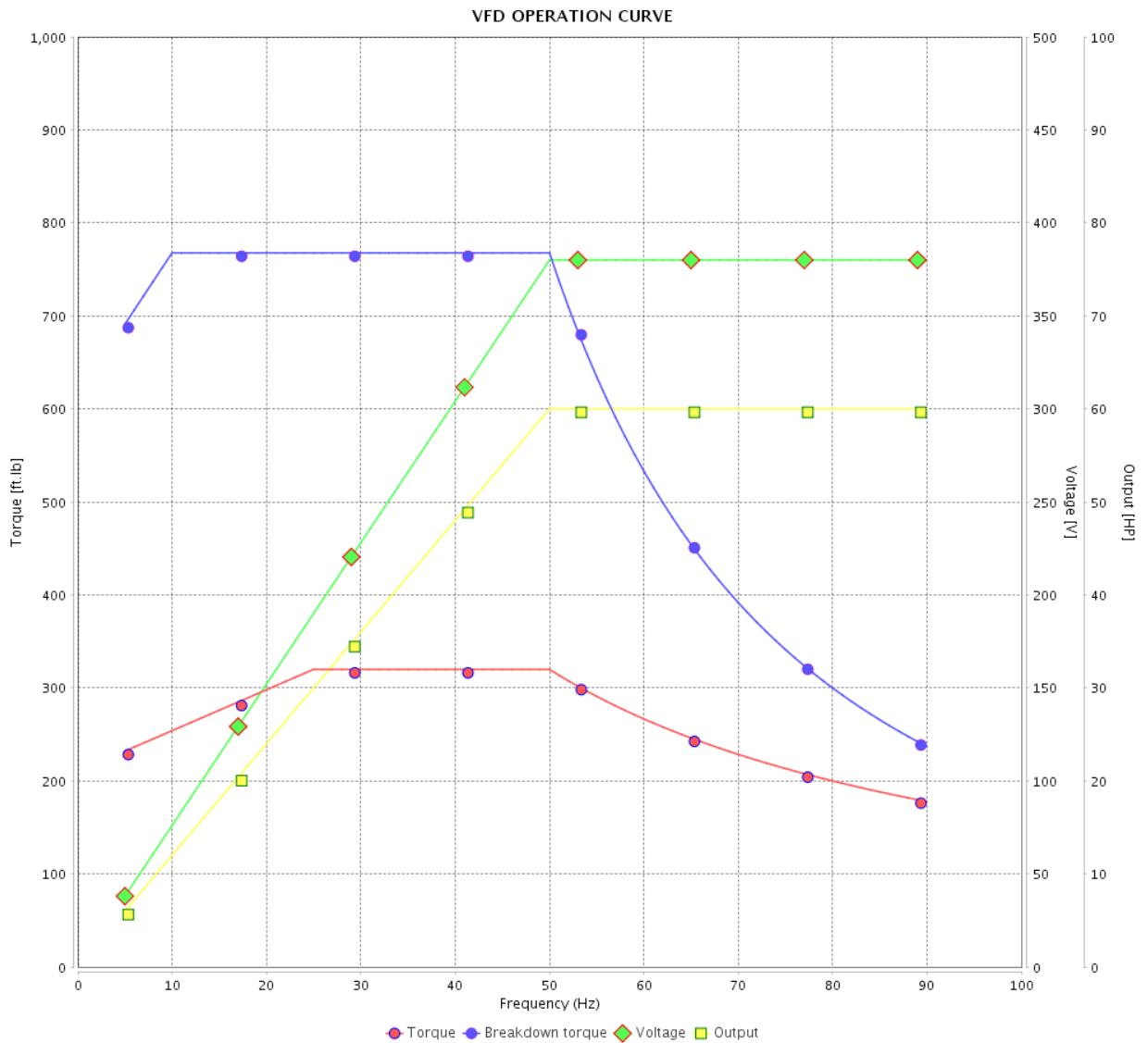


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 14428062

Catalog # : 07512ET3E405JP-W22



Performance : 380 V 50 Hz 6P IE3

Rated current : 85.5 A
 LRC : 6.4
 Rated torque : 320 ft.lb
 Locked rotor torque : 200 %
 Breakdown torque : 240 %
 Rated speed : 985 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
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Date	13/04/2022			

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



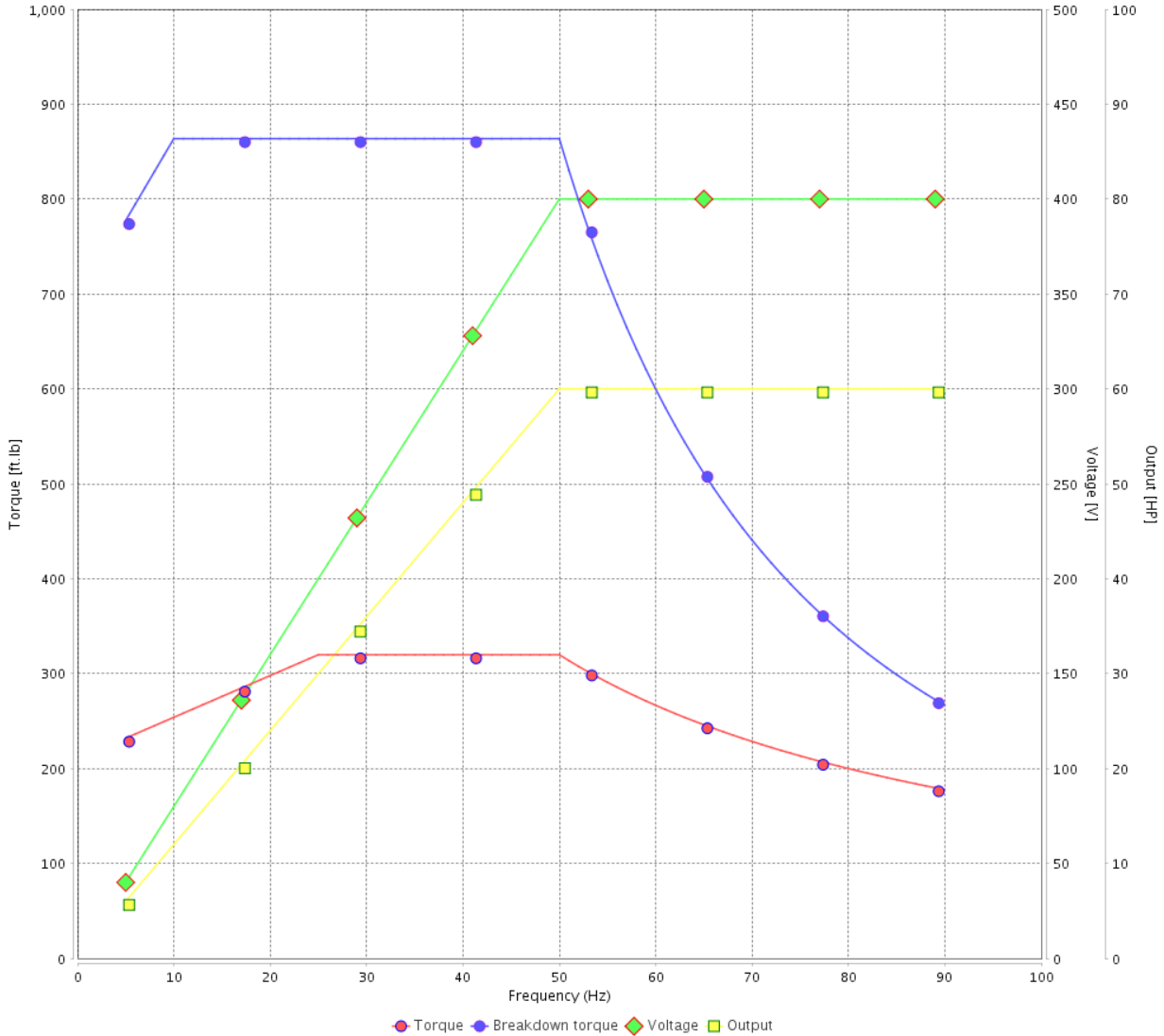
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 14428062

Catalog # : 07512ET3E405JP-W22

VFD OPERATION CURVE



Performance : 400 V 50 Hz 6P IE3

Rated current : 83.2 A
 LRC : 6.9
 Rated torque : 320 ft.lb
 Locked rotor torque : 240 %
 Breakdown torque : 270 %
 Rated speed : 985 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

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

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

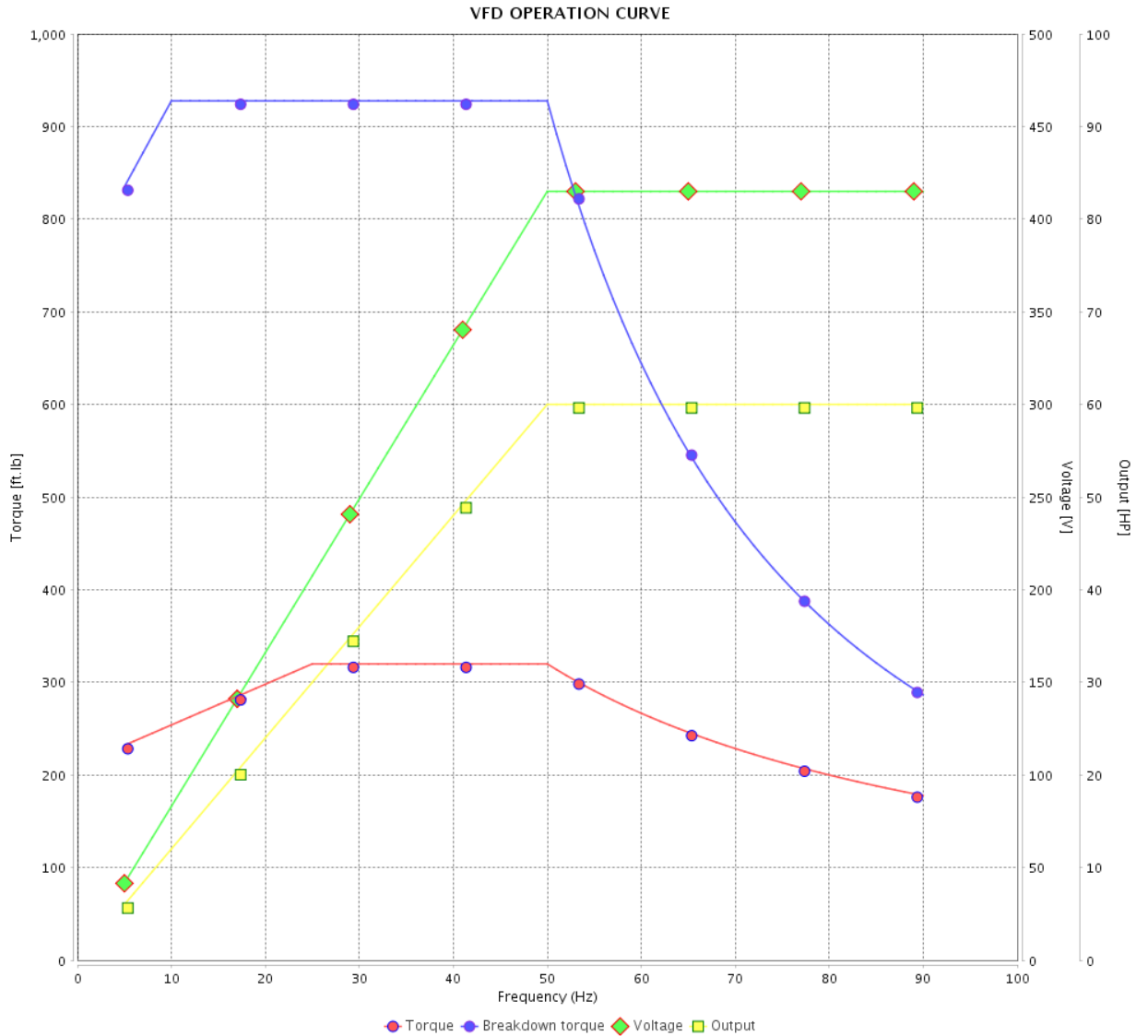


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 14428062

Catalog # : 07512ET3E405JP-W22



Performance : 415 V 50 Hz 6P IE3

Rated current : 82.1 A
 LRC : 7.3
 Rated torque : 320 ft.lb
 Locked rotor torque : 270 %
 Breakdown torque : 290 %
 Rated speed : 985 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

Rev.	Changes Summary	Performed	Checked	Date
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



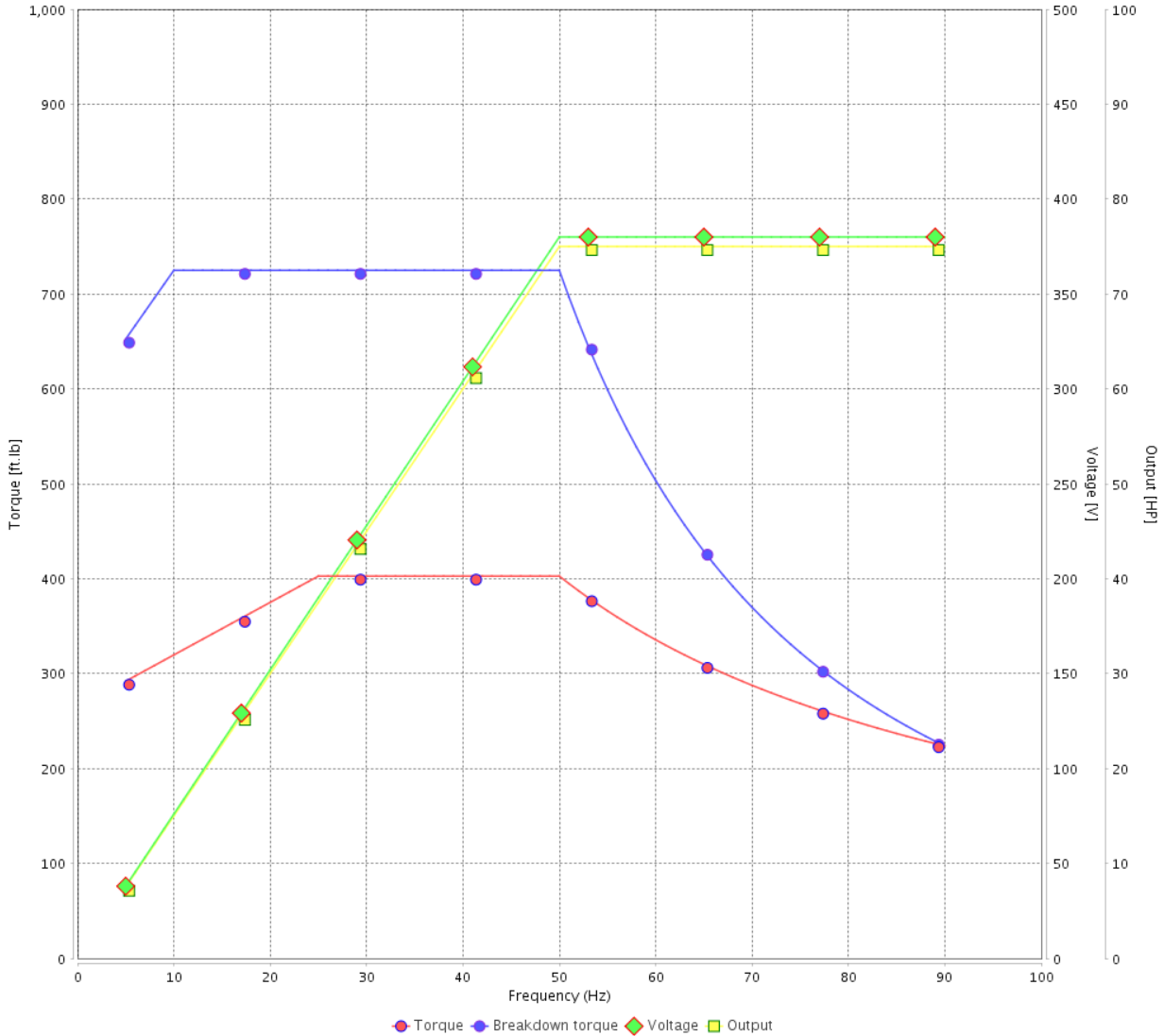
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 14428062

Catalog # : 07512ET3E405JP-W22

VFD OPERATION CURVE



Performance : 380 V 50 Hz 6P IE1

Rated current : 104 A
 LRC : 5.2
 Rated torque : 403 ft.lb
 Locked rotor torque : 170 %
 Breakdown torque : 180 %
 Rated speed : 978 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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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

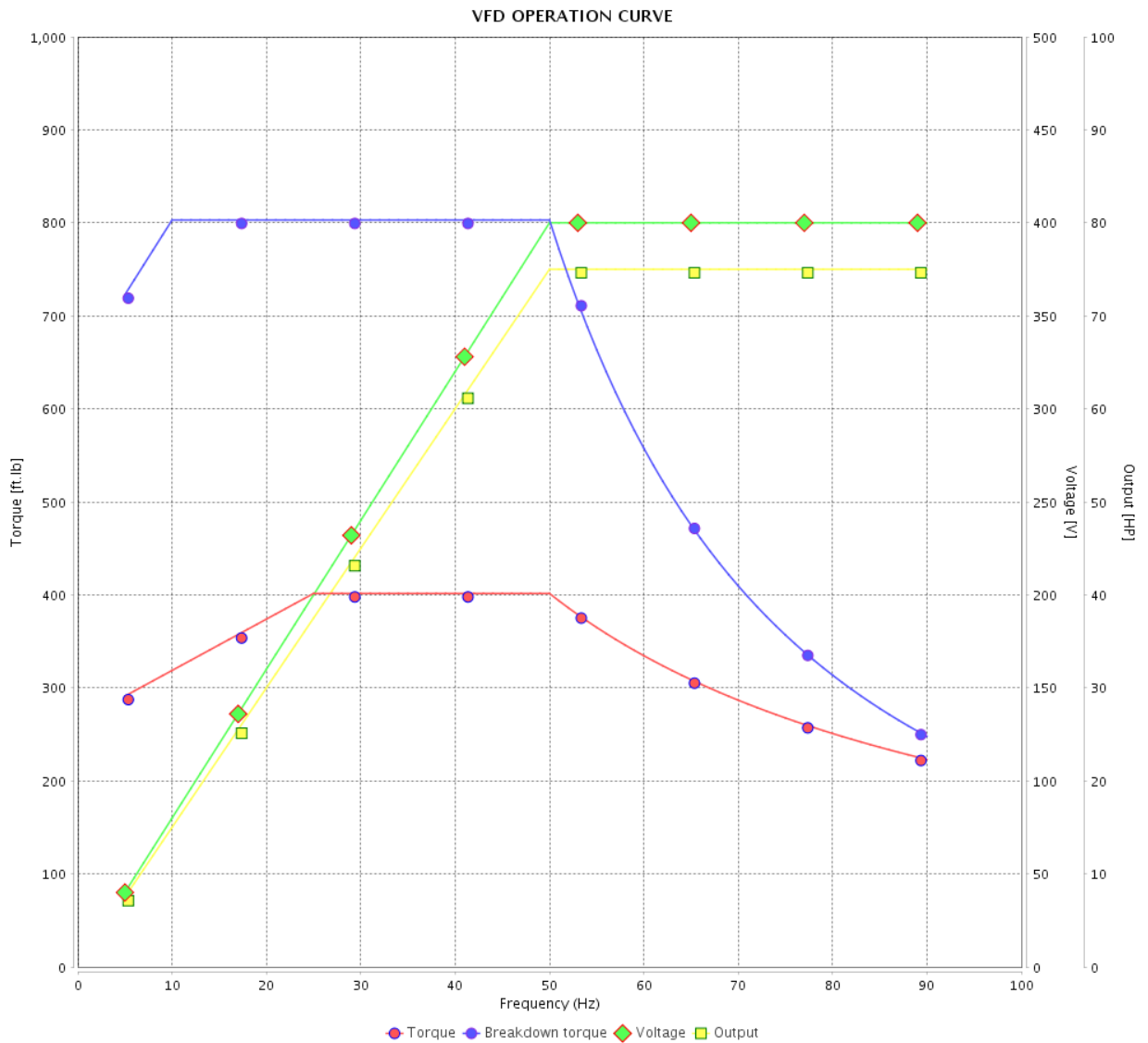


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 14428062

Catalog # : 07512ET3E405JP-W22



Performance : 400 V 50 Hz 6P IE1

Rated current : 99.3 A
 LRC : 5.7
 Rated torque : 401 ft.lb
 Locked rotor torque : 190 %
 Breakdown torque : 200 %
 Rated speed : 981 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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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



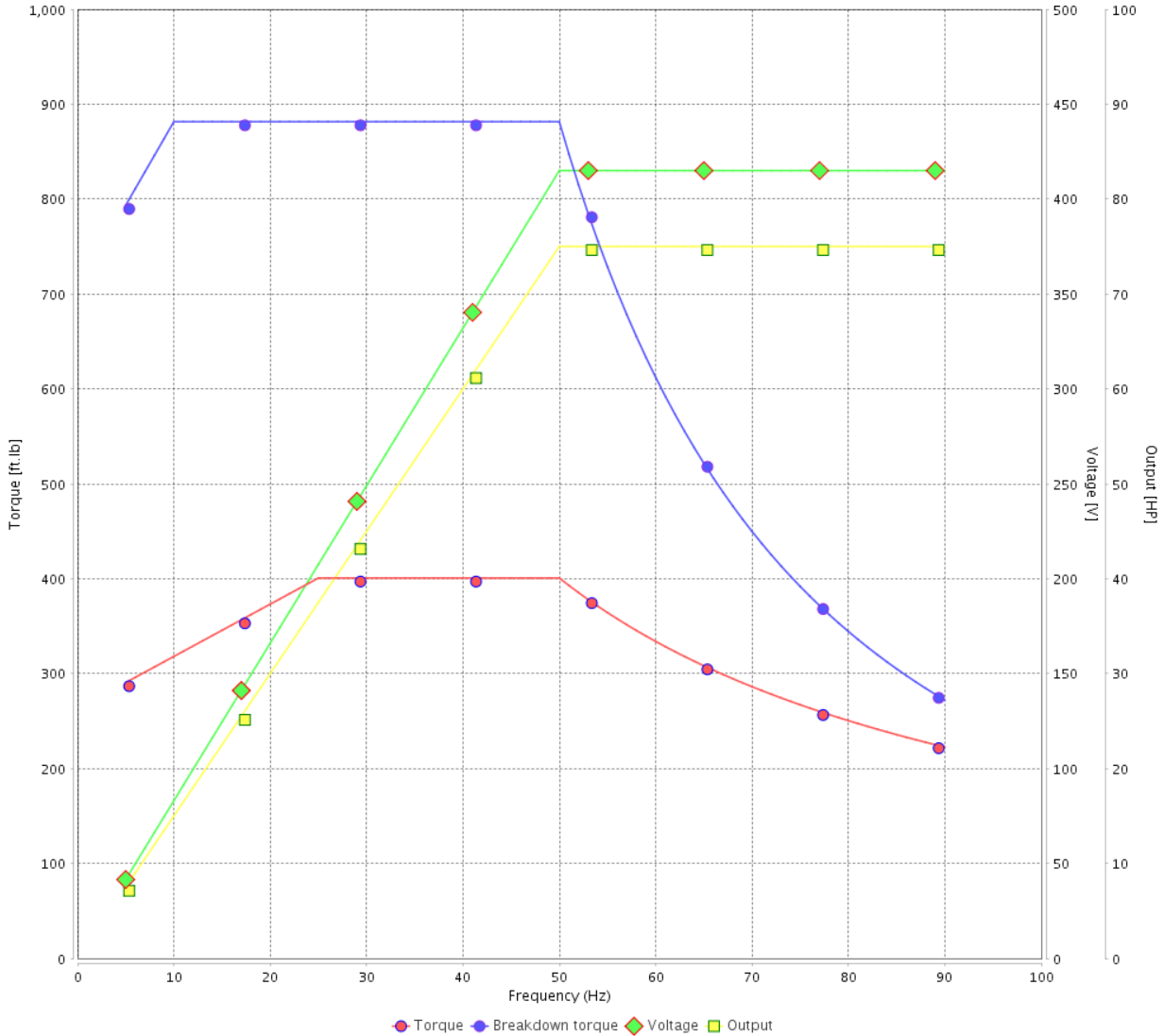
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 14428062

Catalog # : 07512ET3E405JP-W22

VFD OPERATION CURVE



Performance : 415 V 50 Hz 6P IE1

Rated current : 95.7 A
 LRC : 6.2
 Rated torque : 401 ft.lb
 Locked rotor torque : 210 %
 Breakdown torque : 220 %
 Rated speed : 983 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

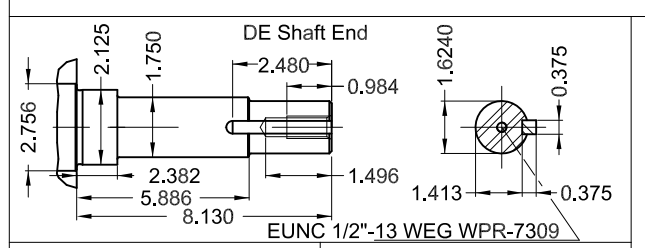
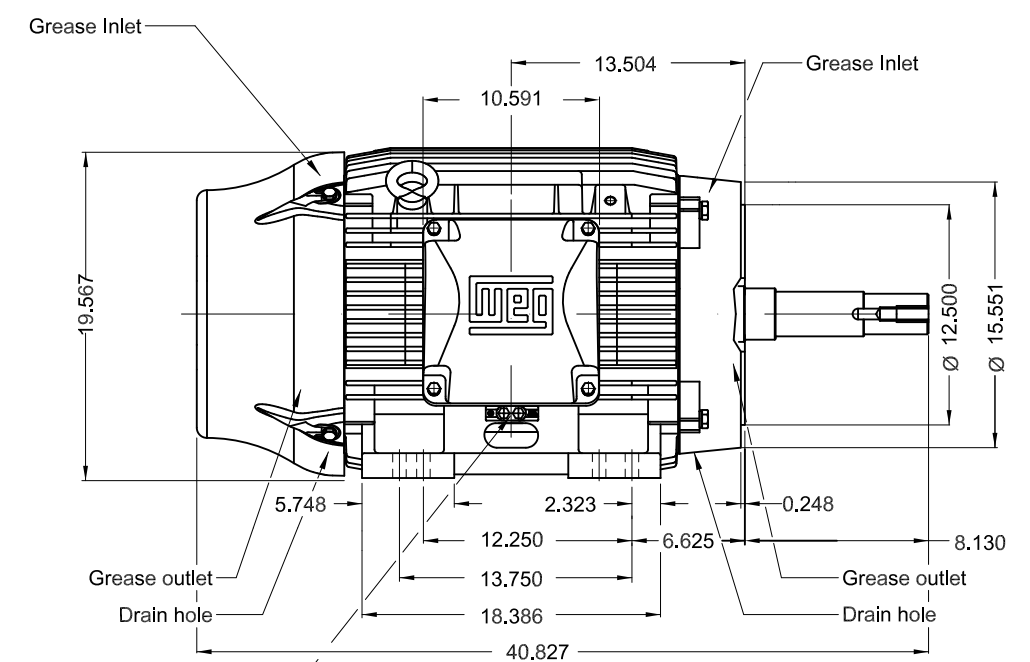
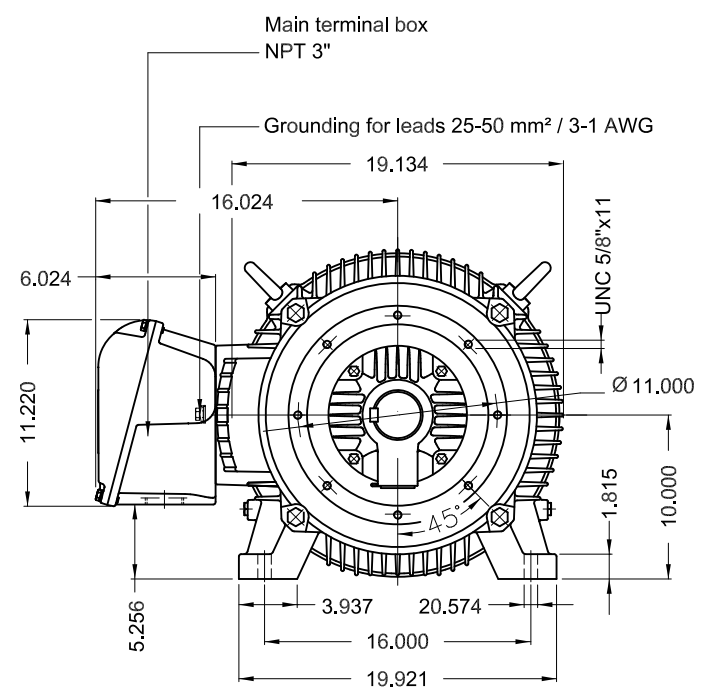
Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page	Revision
Checked by				
Date				

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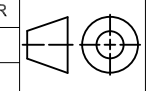
B

C



75 HP 06 Poles 60 Hz A

Without vertical jackscrews
 Color RAL 5009
 Painting plan 203A
 Mounting NEMA F-1
 Mounting B34R(D)

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

PREVIEW
WDD

