

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer								
Product line	: NEMA Premium Efficiency Three-Phase	Product code	: 13273081					
		Catalog #	: 07512ET3E405T-W22G					
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	: 1190 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	: Drive end 6316 C3	Non drive end 6314 C3	Foundation loads					
Sealing	: WSeal	WSeal	Max. traction : 2051 lb					
Lubrication interval	: 16000 h	17000 h	Max. compression : 3241 lb					
Lubricant amount	: 34 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



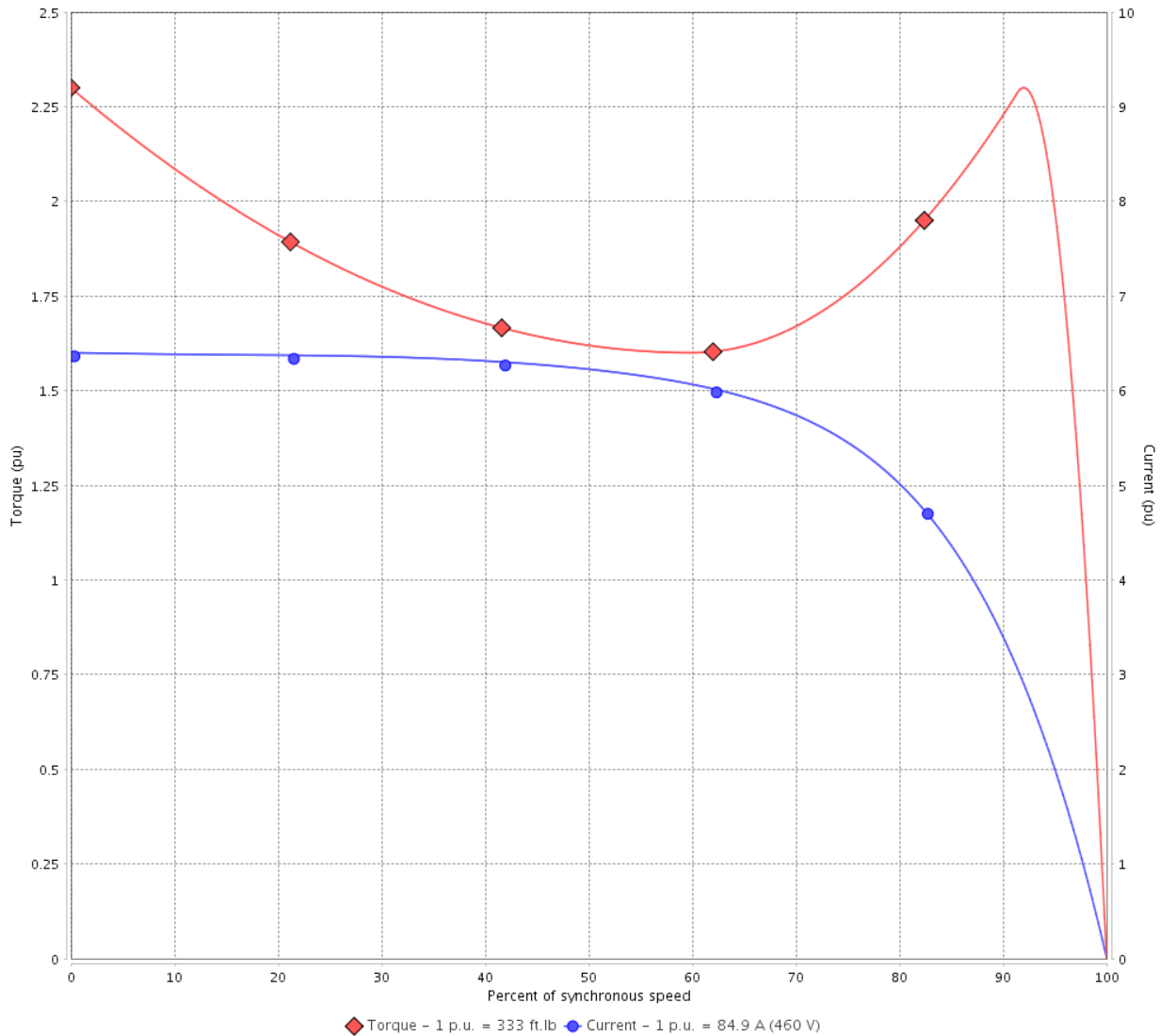
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 13273081

Catalog # : 07512ET3E405T-W22G

TORQUE AND CURRENT VS SPEED 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

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

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TORQUE AND CURRENT VS SPEED CURVE



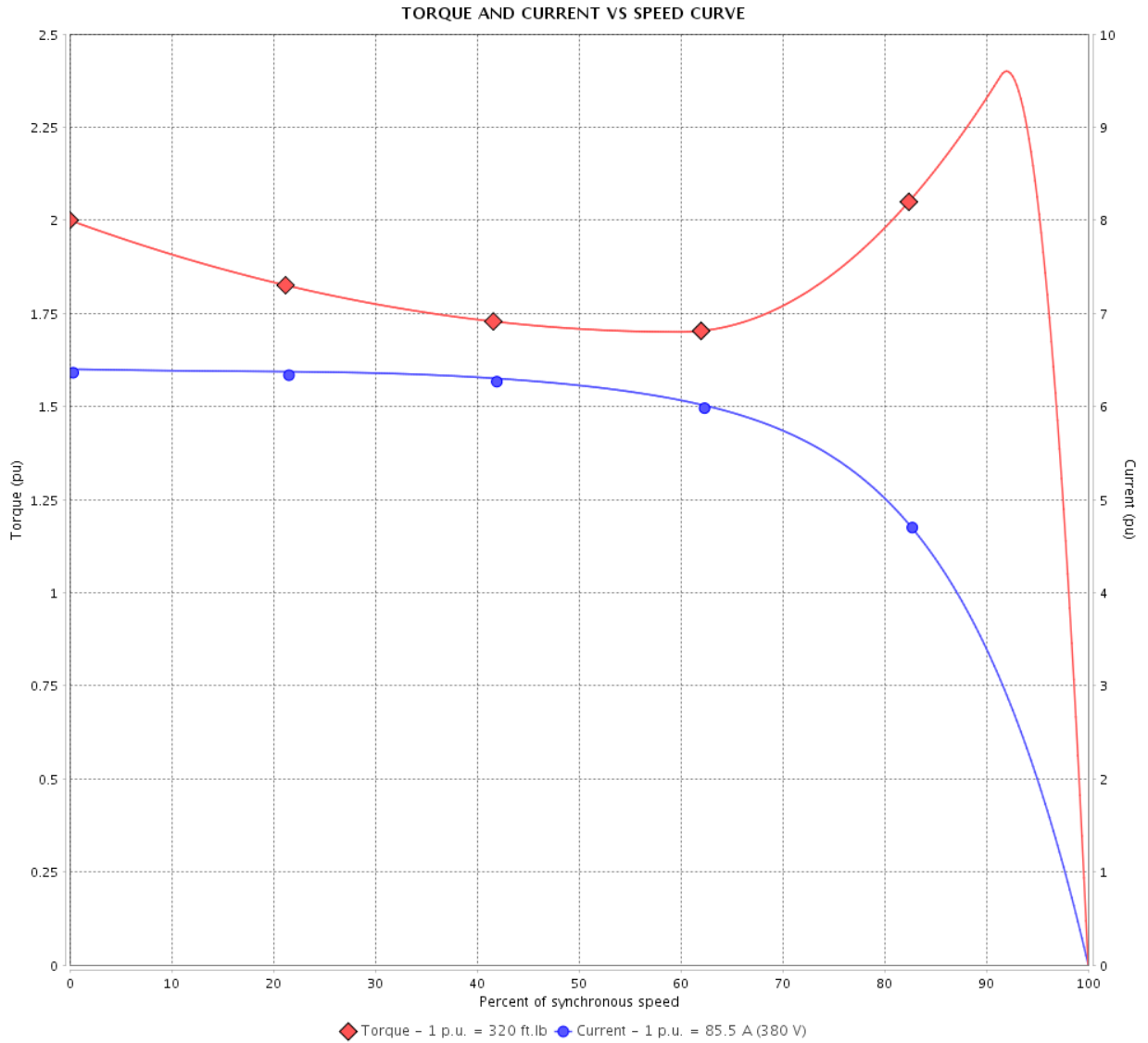
Three Phase Induction Motor - Squirrel Cage

Customer :

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Product code : 13273081

Catalog # : 07512ET3E405T-W22G



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



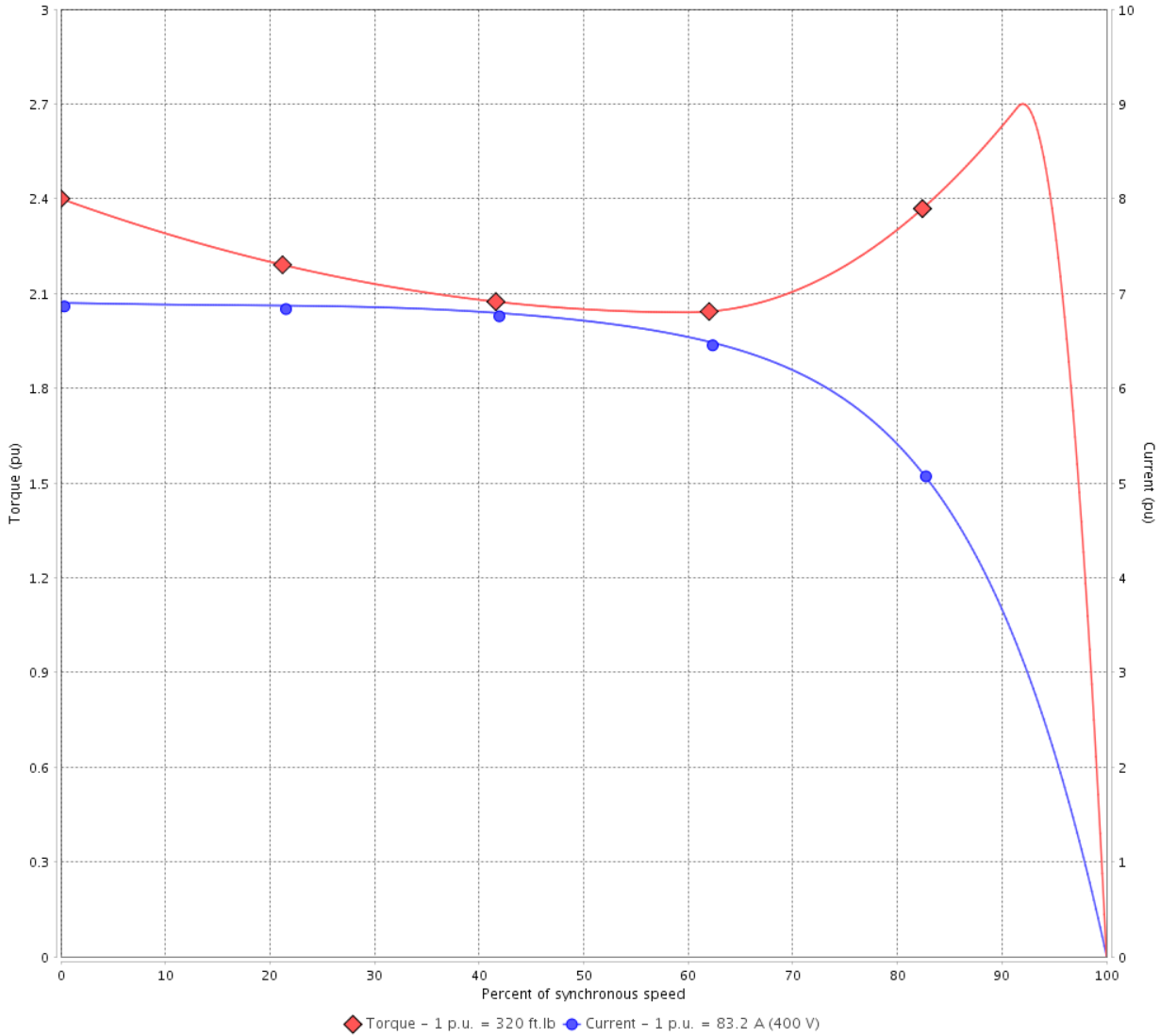
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 13273081

Catalog # : 07512ET3E405T-W22G

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



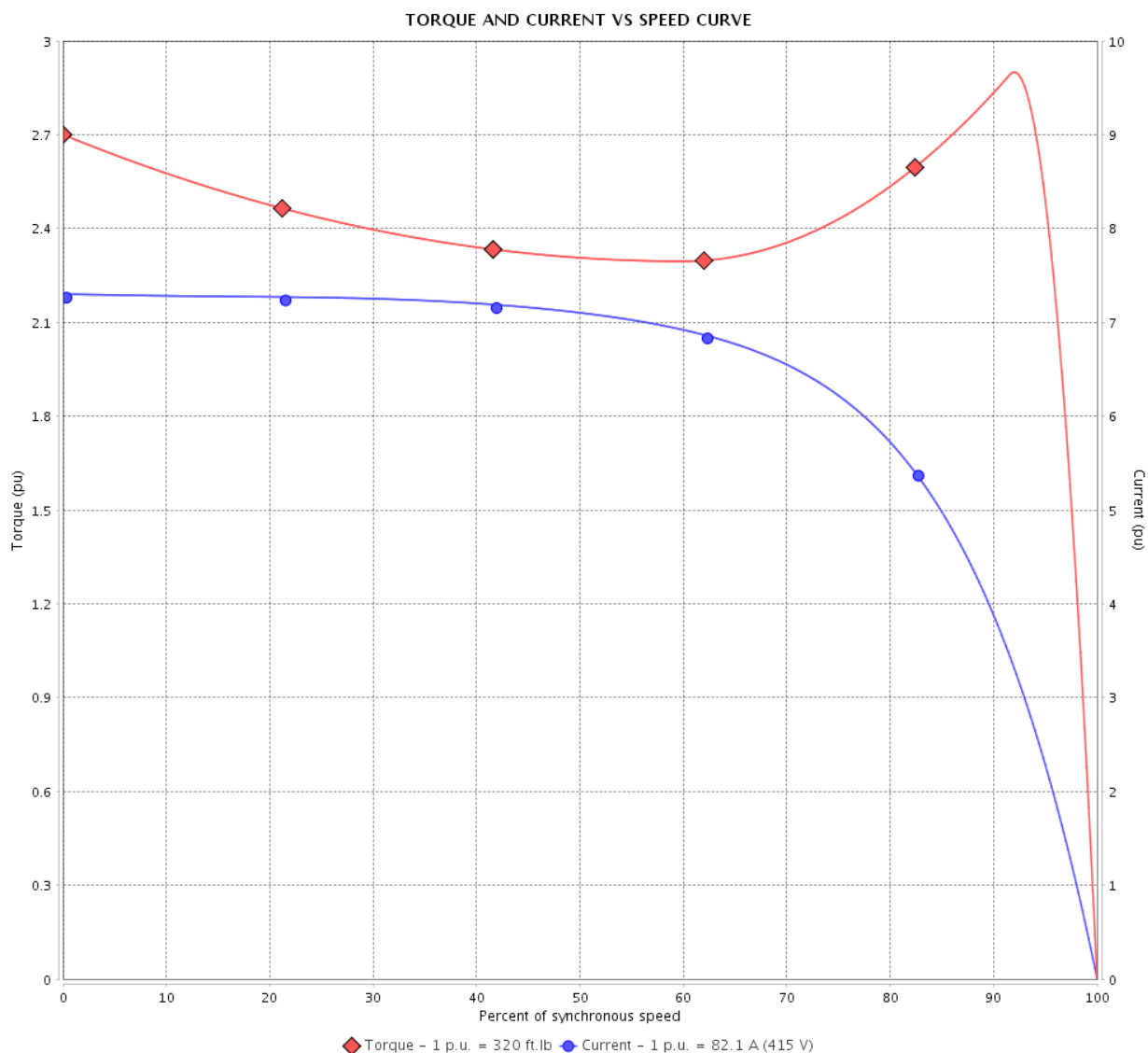
Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 13273081

Catalog # : 07512ET3E405T-W22G



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



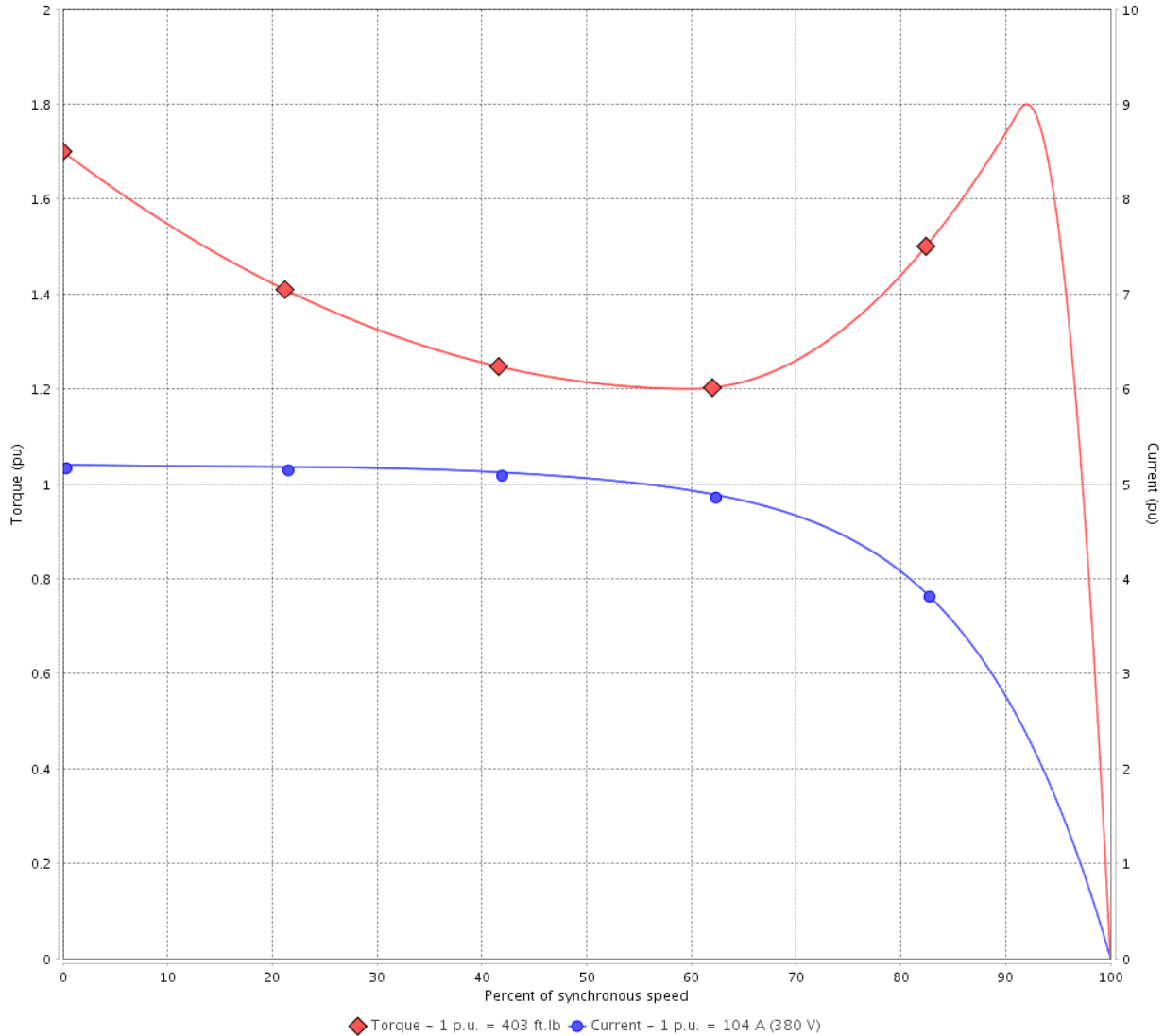
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TORQUE AND CURRENT VS SPEED CURVE



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



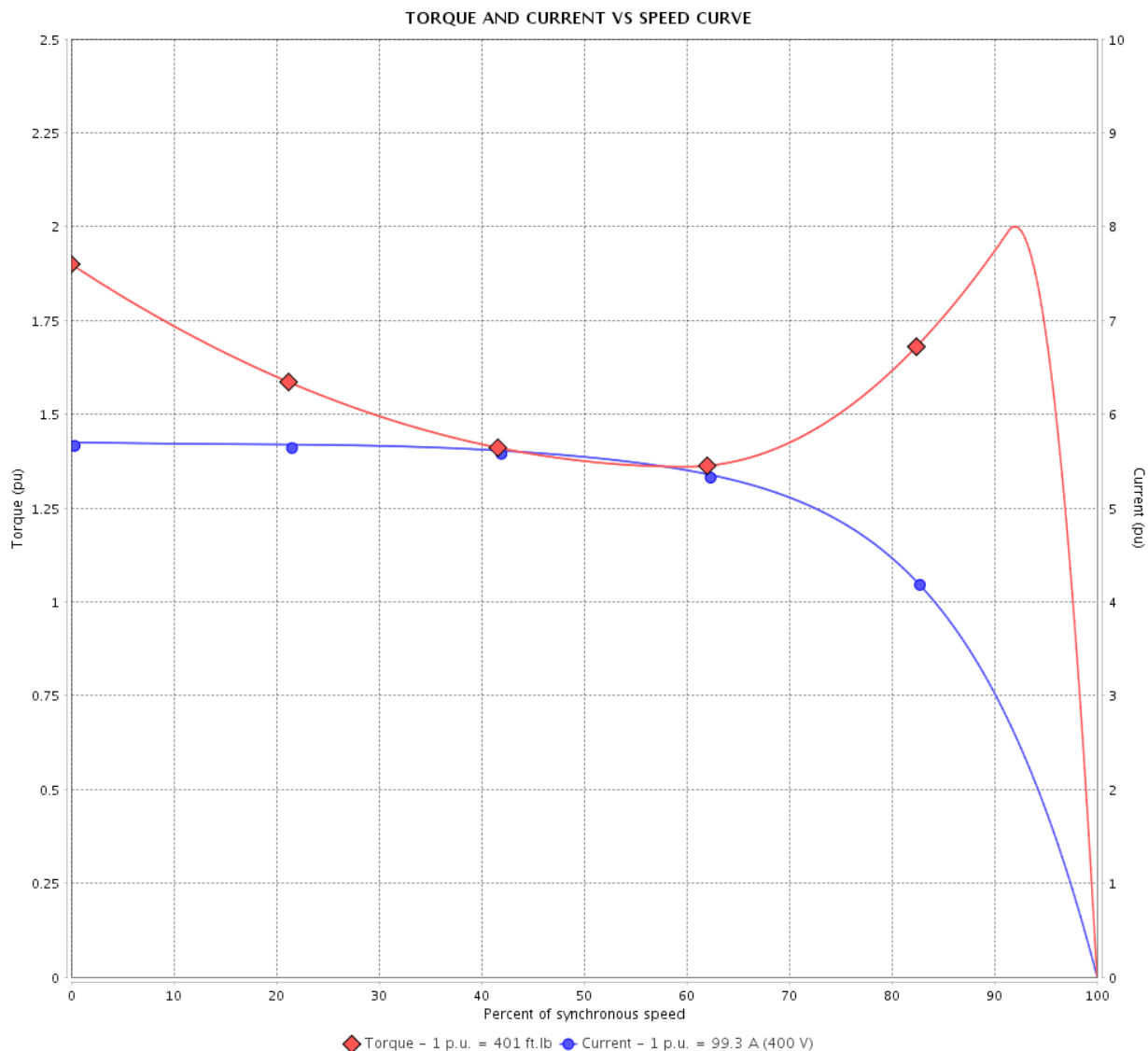
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Catalog # : 07512ET3E405T-W22G



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



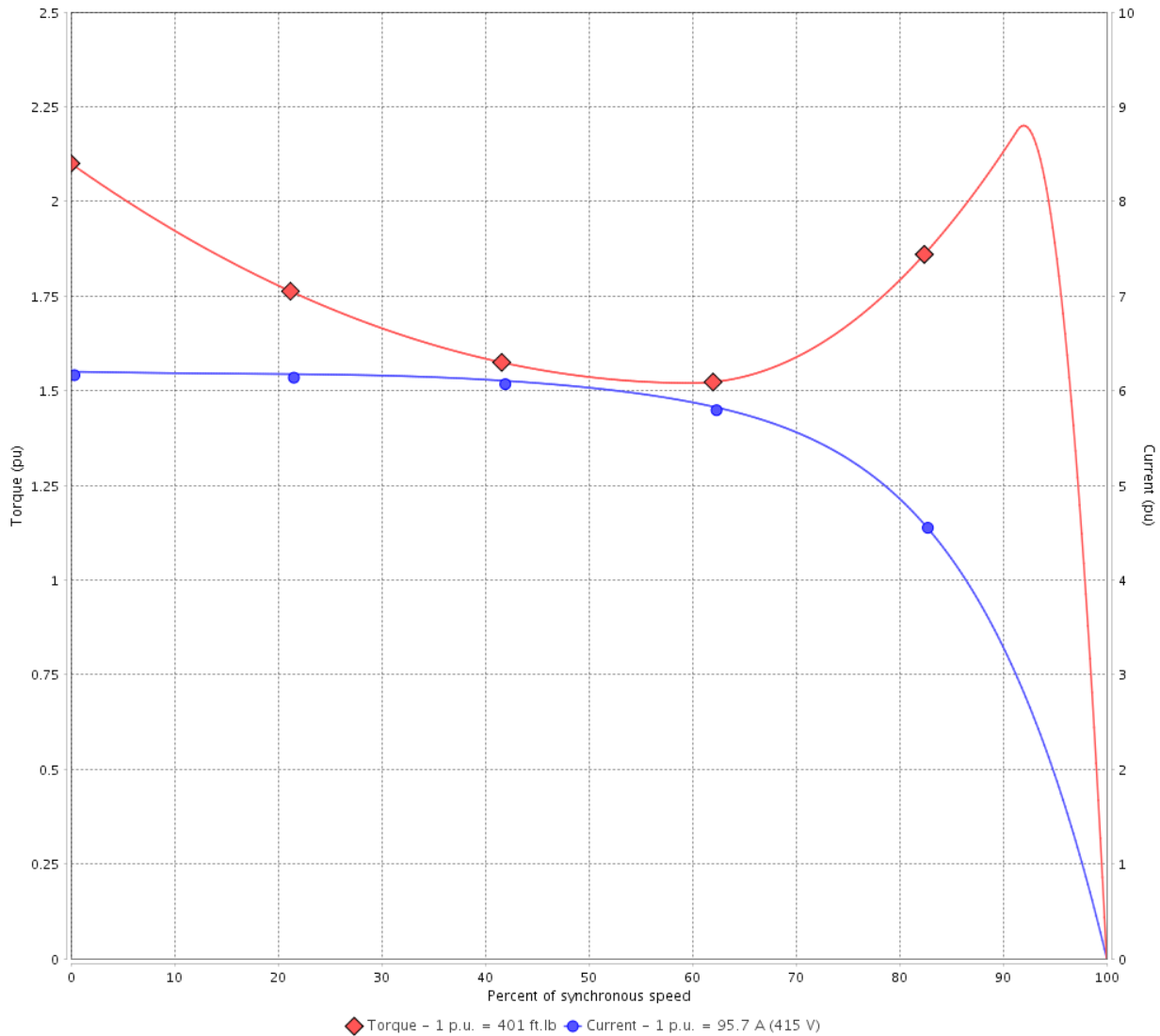
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TORQUE AND CURRENT VS SPEED CURVE



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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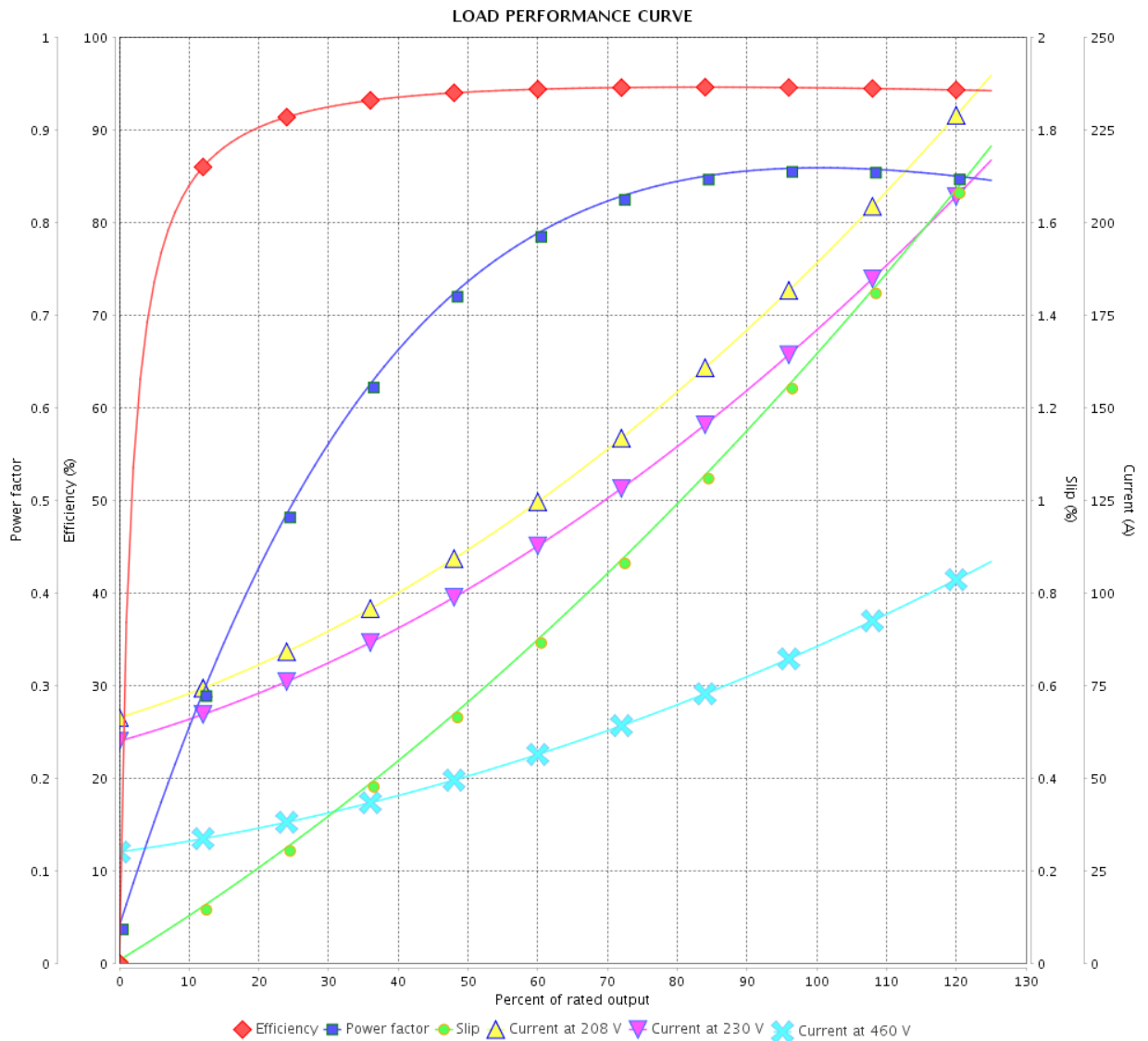


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Product code : 13273081

Catalog # : 07512ET3E405T-W22G



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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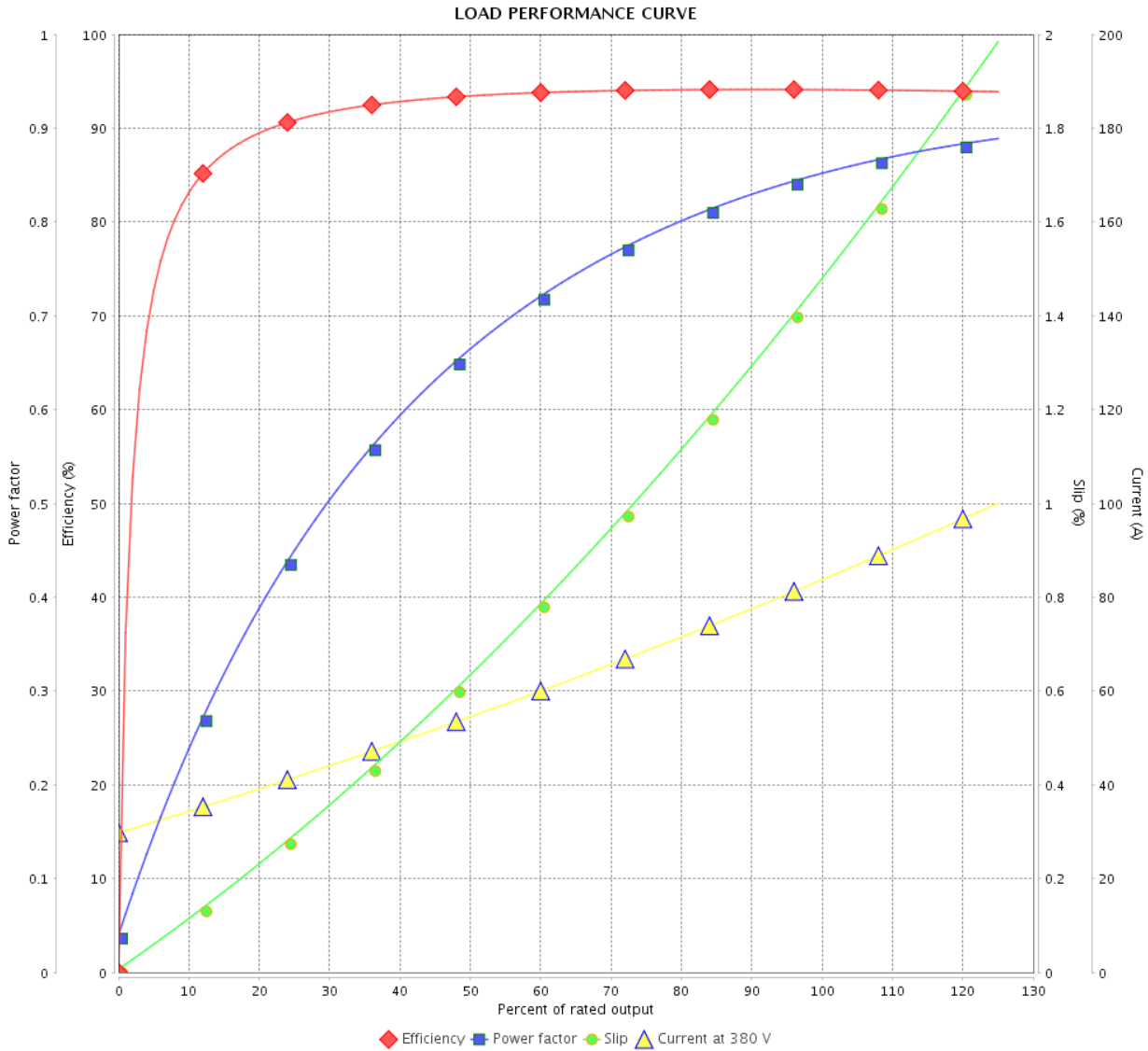


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Performance : 380 V 50 Hz 6P IE3

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

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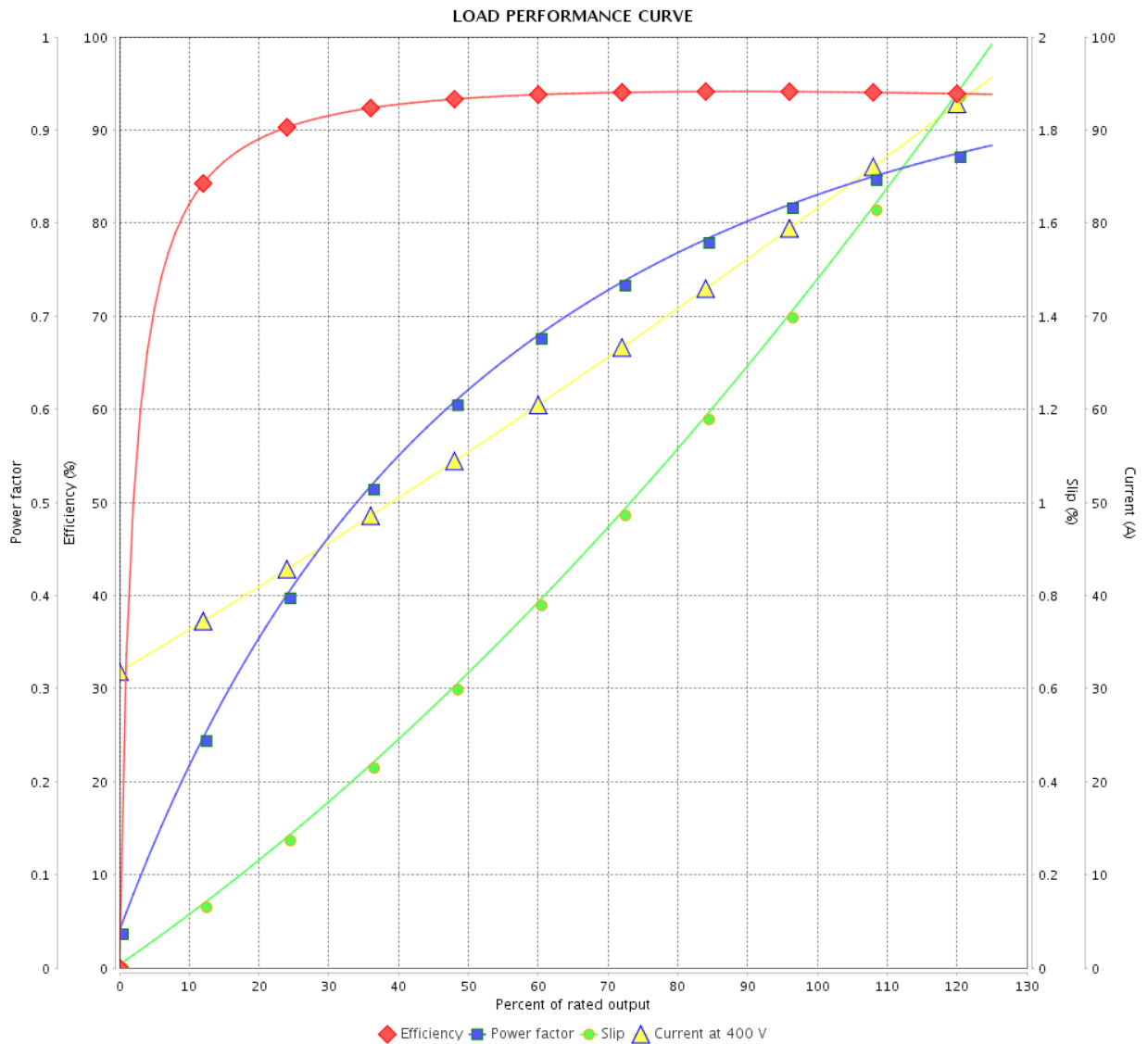


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Performance : 400 V 50 Hz 6P IE3

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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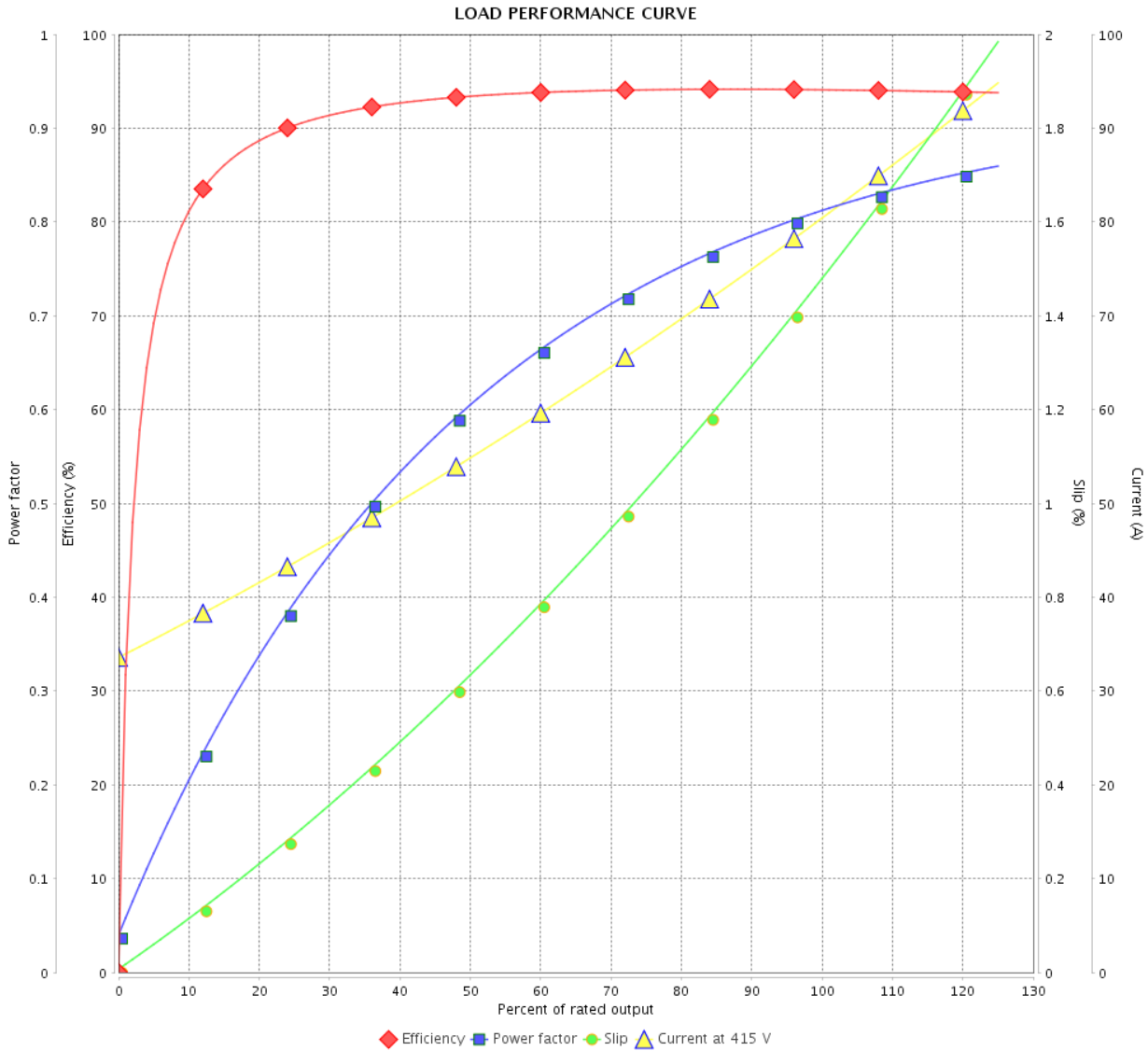


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 13273081

Catalog # : 07512ET3E405T-W22G



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

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Three Phase Induction Motor - Squirrel Cage

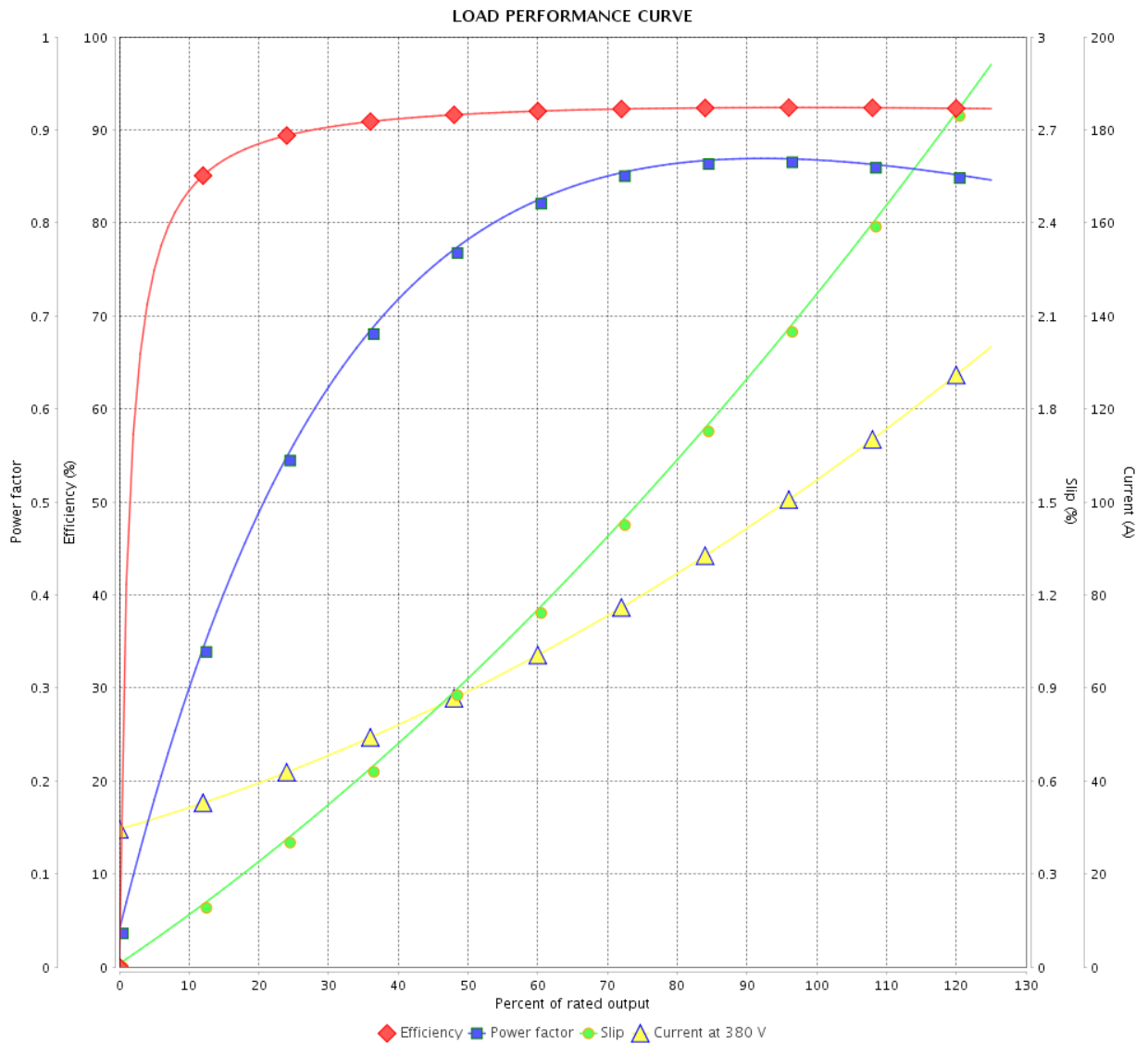


Customer : _____

Product line : NEMA Premium Efficiency Three-Phase

Product code : 13273081

Catalog # : 07512ET3E405T-W22G



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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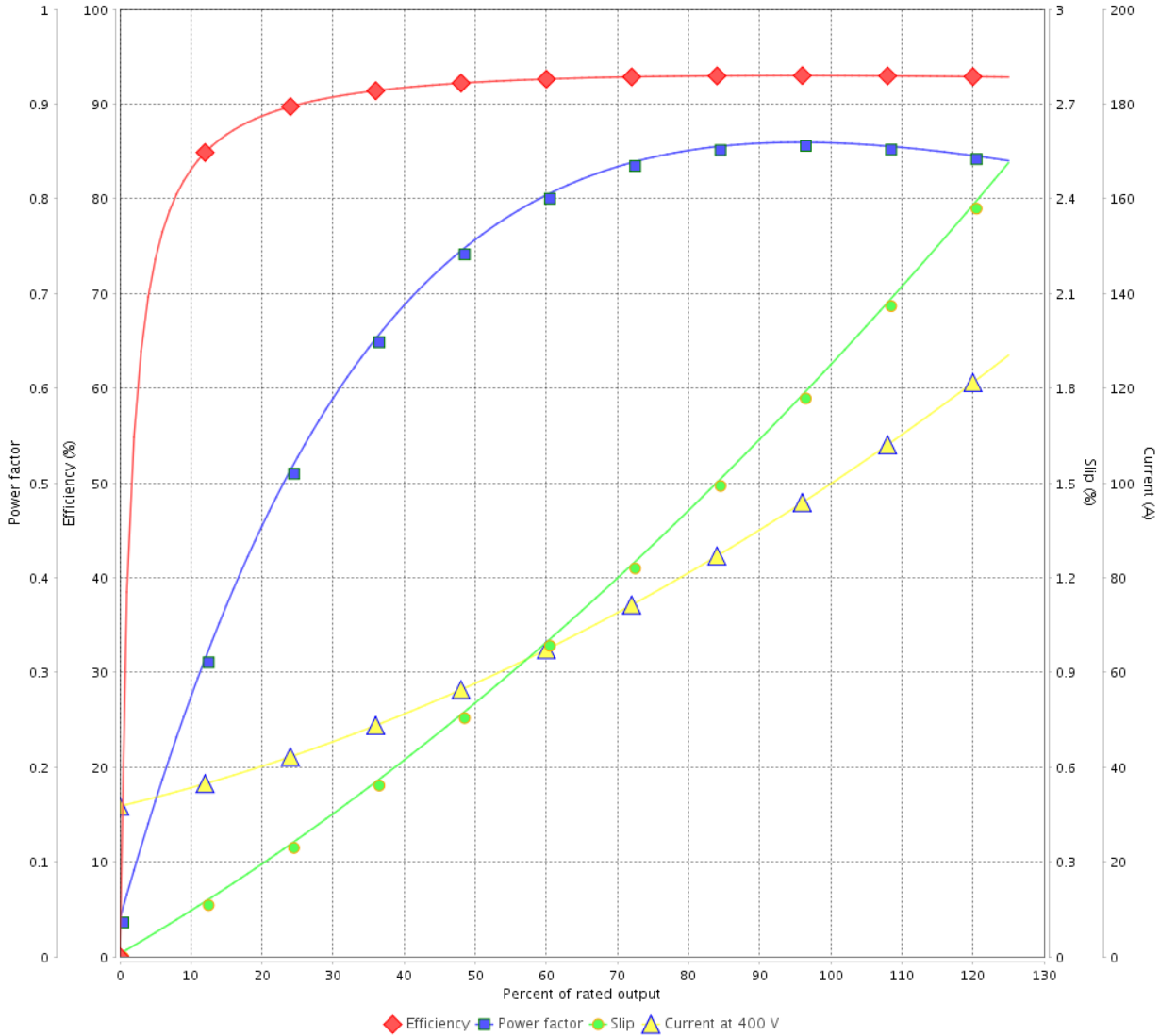
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Performance : 400 V 50 Hz 6P IE1

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

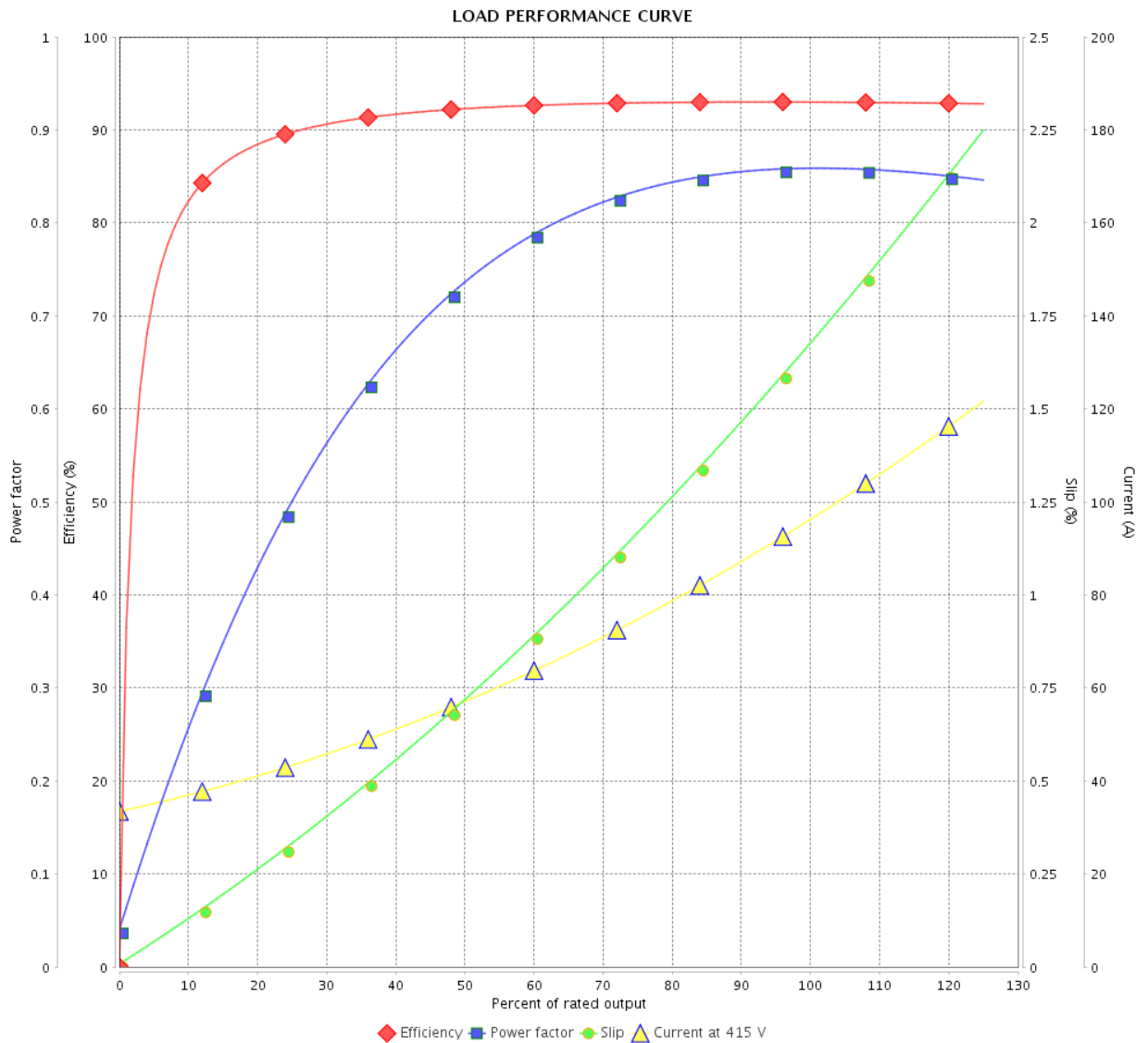


Customer : _____

Product line : NEMA Premium Efficiency Three-Phase

Product code : 13273081

Catalog # : 07512ET3E405T-W22G



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

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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

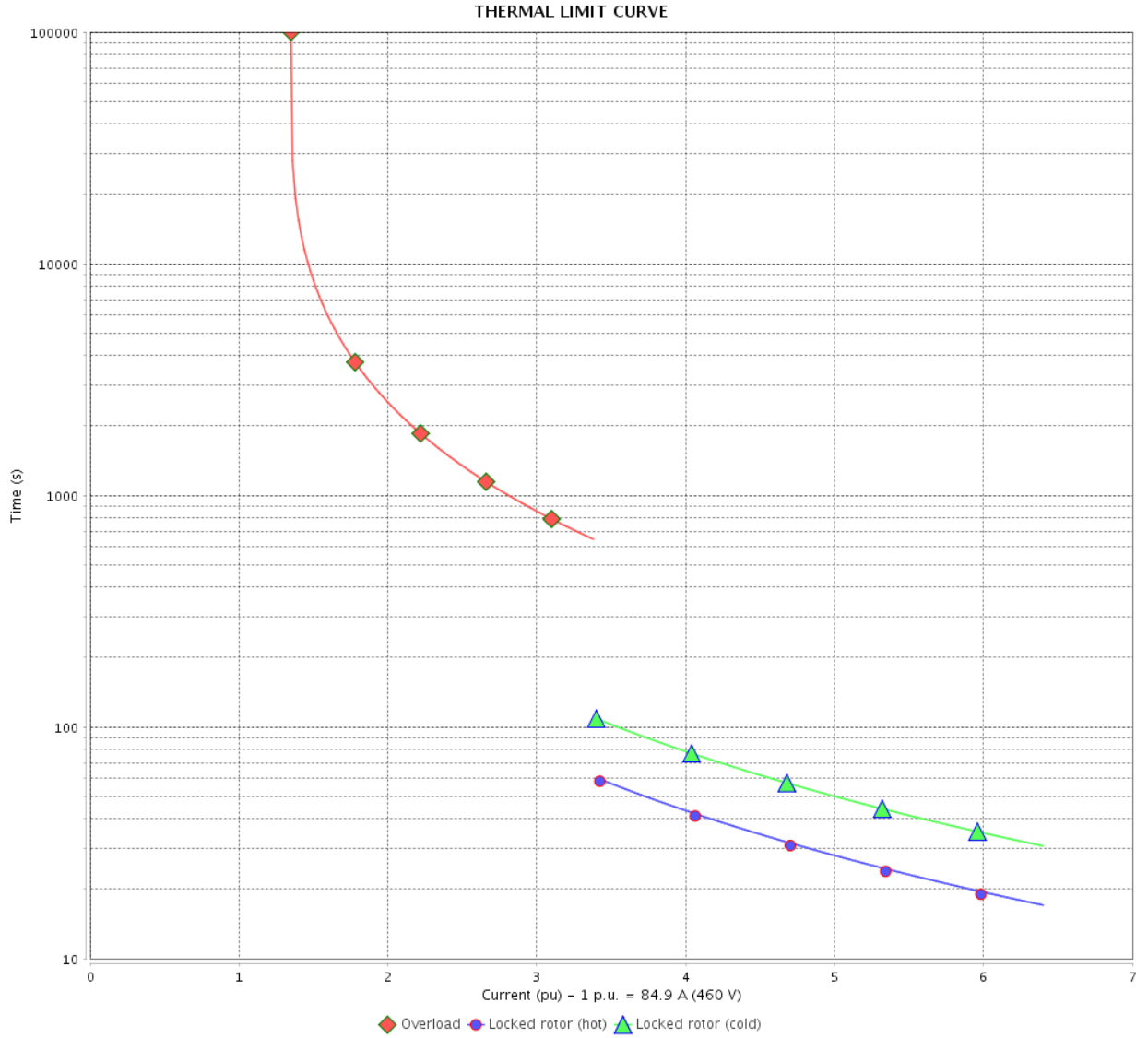
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Three Phase Induction Motor - Squirrel Cage



Customer : _____



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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

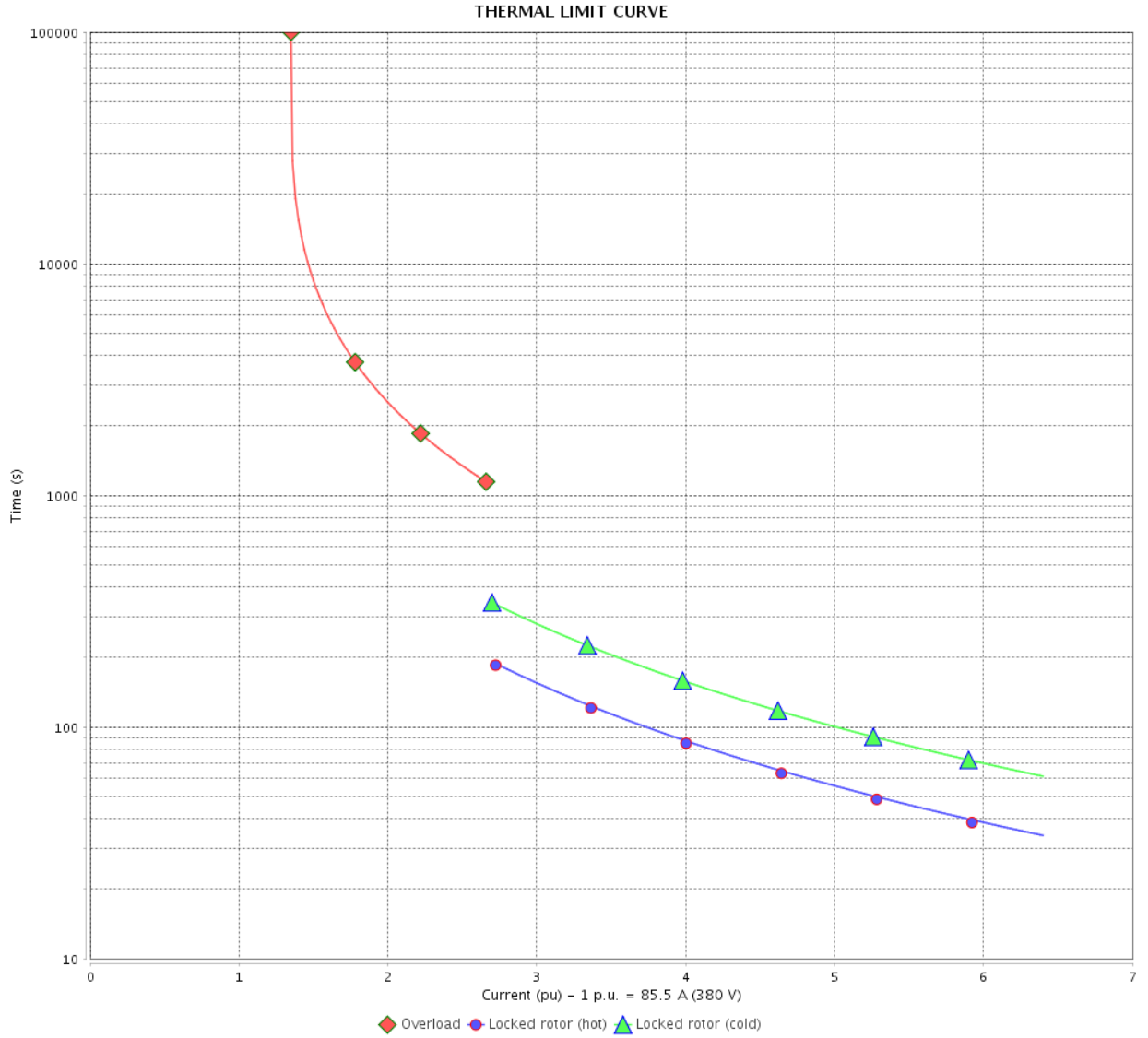
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Locked rotor torque	: 240 %	Service factor	: 1.00
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Heating constant

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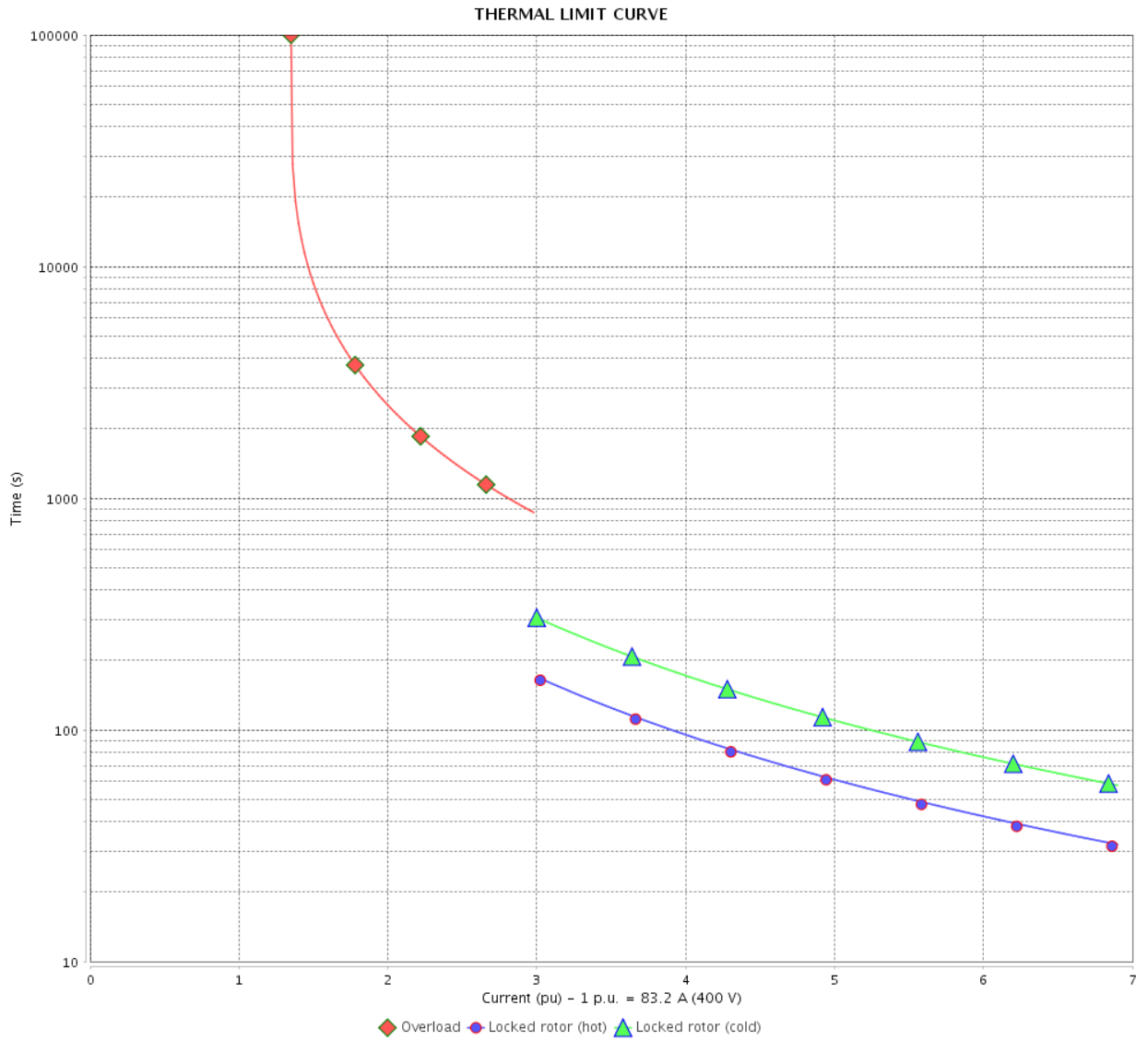
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Locked rotor torque	: 270 %	Service factor	: 1.00
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Heating constant

Cooling constant

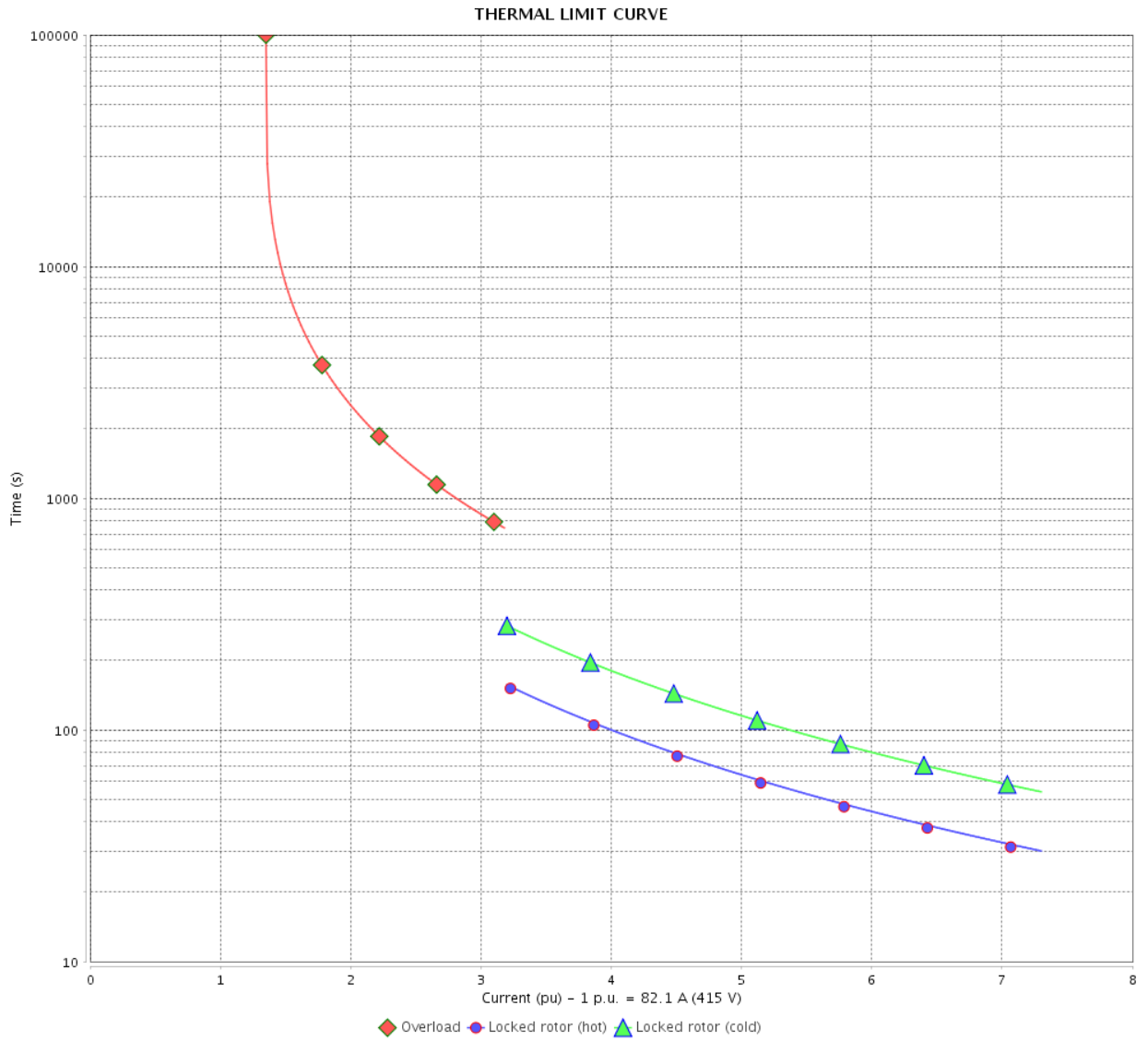
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Breakdown torque	: 180 %	Temperature rise	: 105 K
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Cooling constant

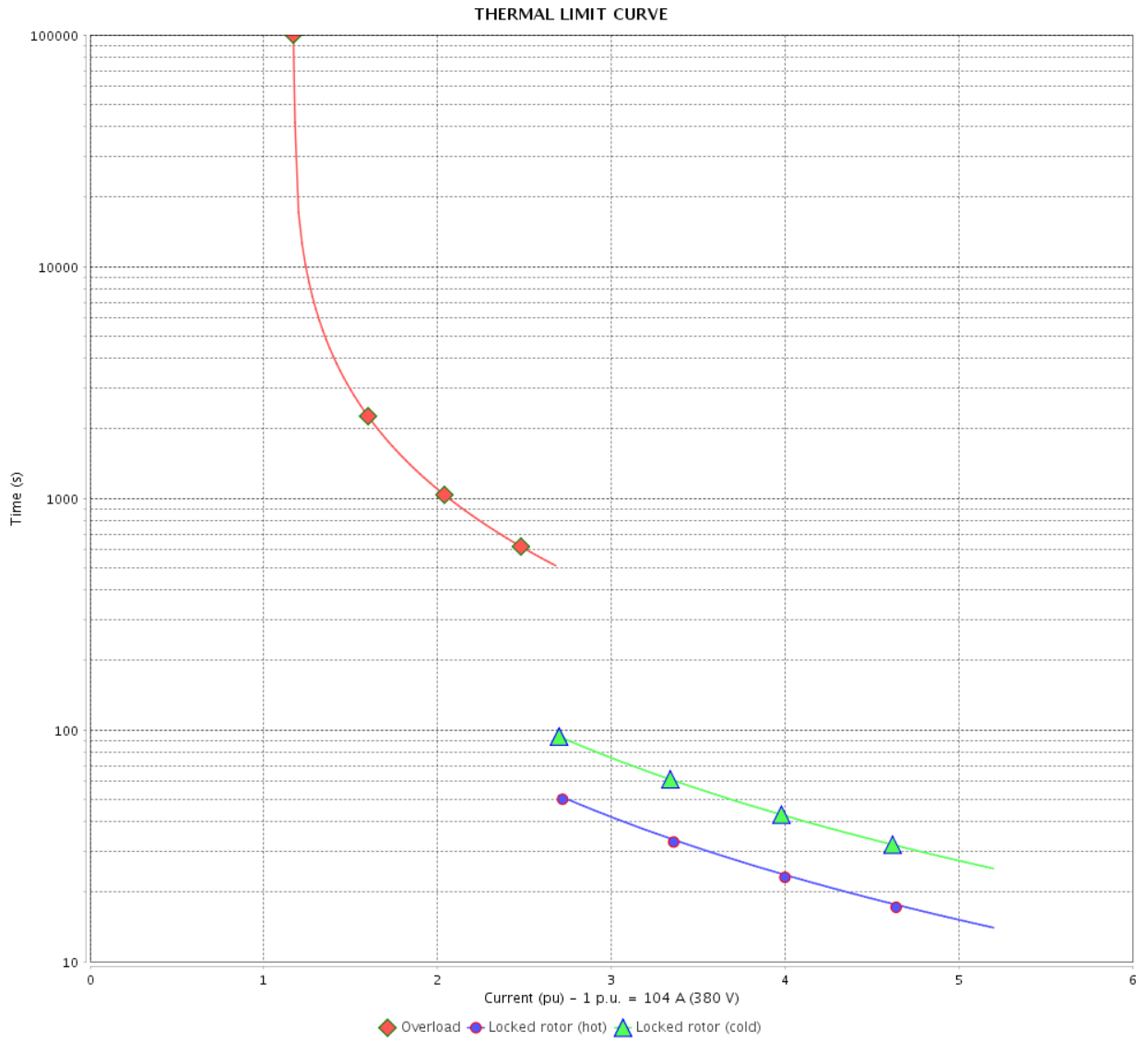
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Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 200 %	Temperature rise	: 105 K
Rated speed	: 981 rpm	Design	: B

Heating constant

Cooling constant

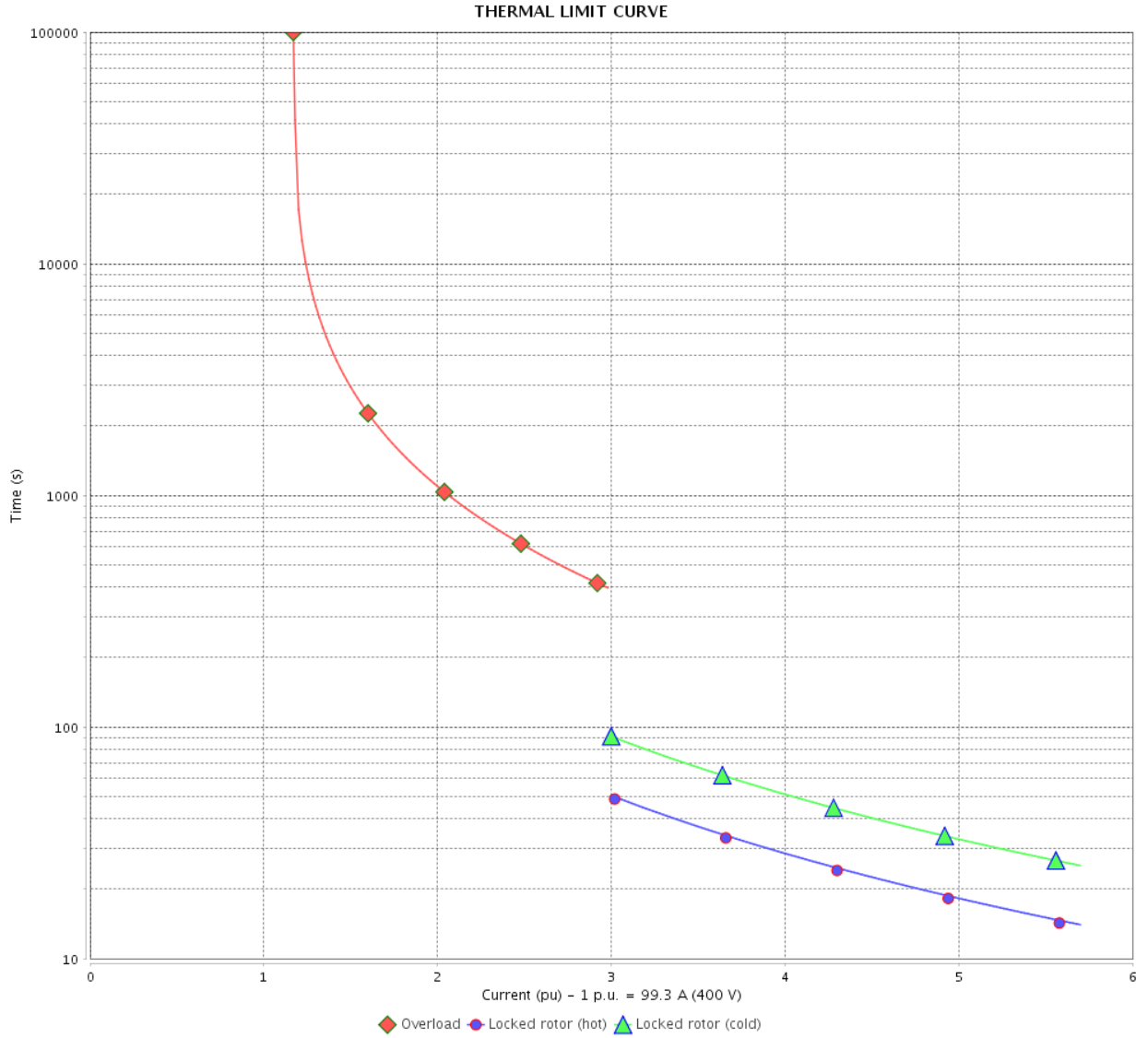
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	13/04/2022		26 / 36	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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Checked by				
Date				

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase
Product code : 13273081
Catalog # : 07512ET3E405T-W22G

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

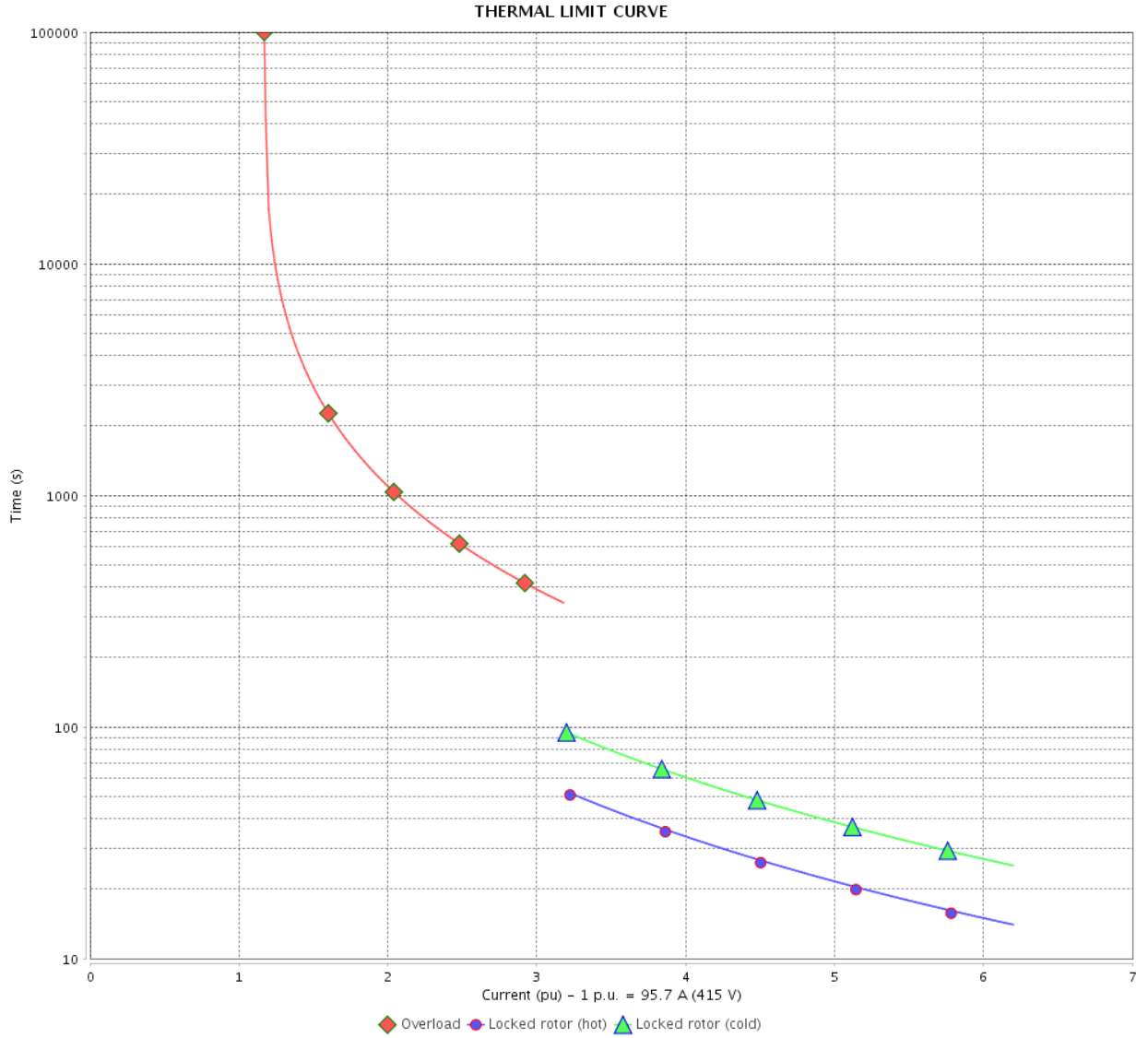
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Checked by			Page	Revision
Date	13/04/2022		28 / 36	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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Checked by				
Date				

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



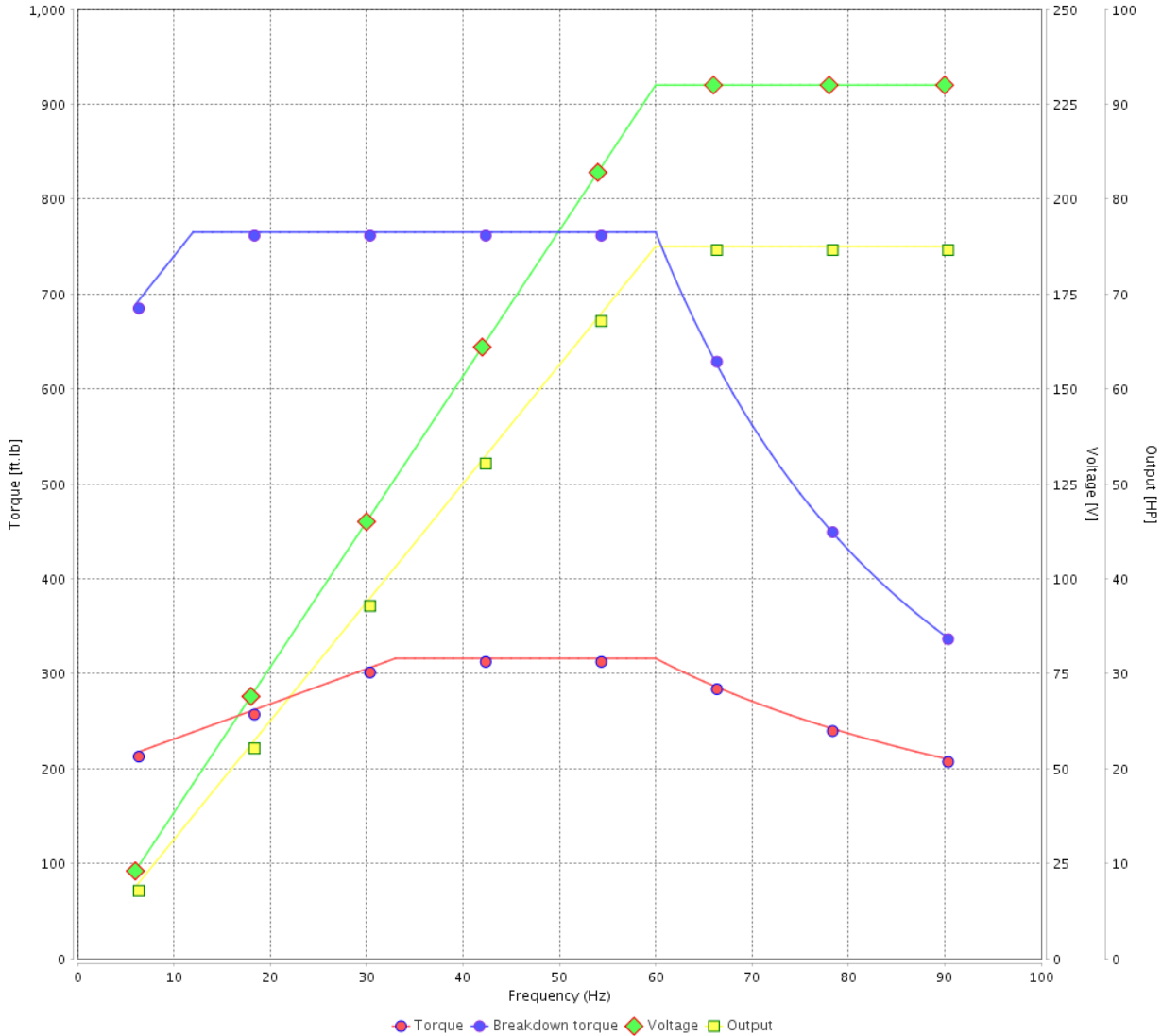
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 13273081

Catalog # : 07512ET3E405T-W22G

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

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Date	13/04/2022			

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

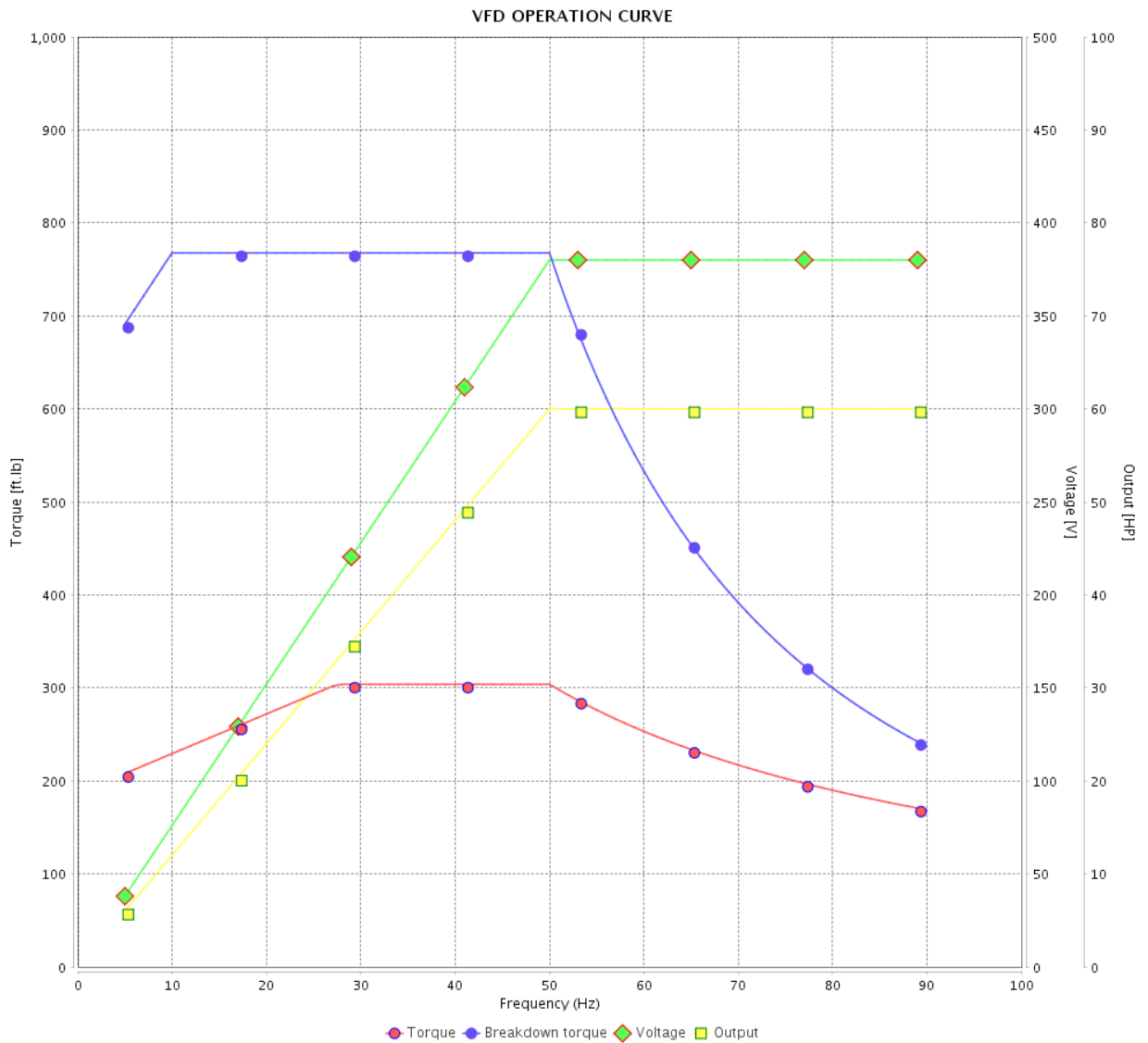


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 13273081

Catalog # : 07512ET3E405T-W22G



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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Date	13/04/2022			

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



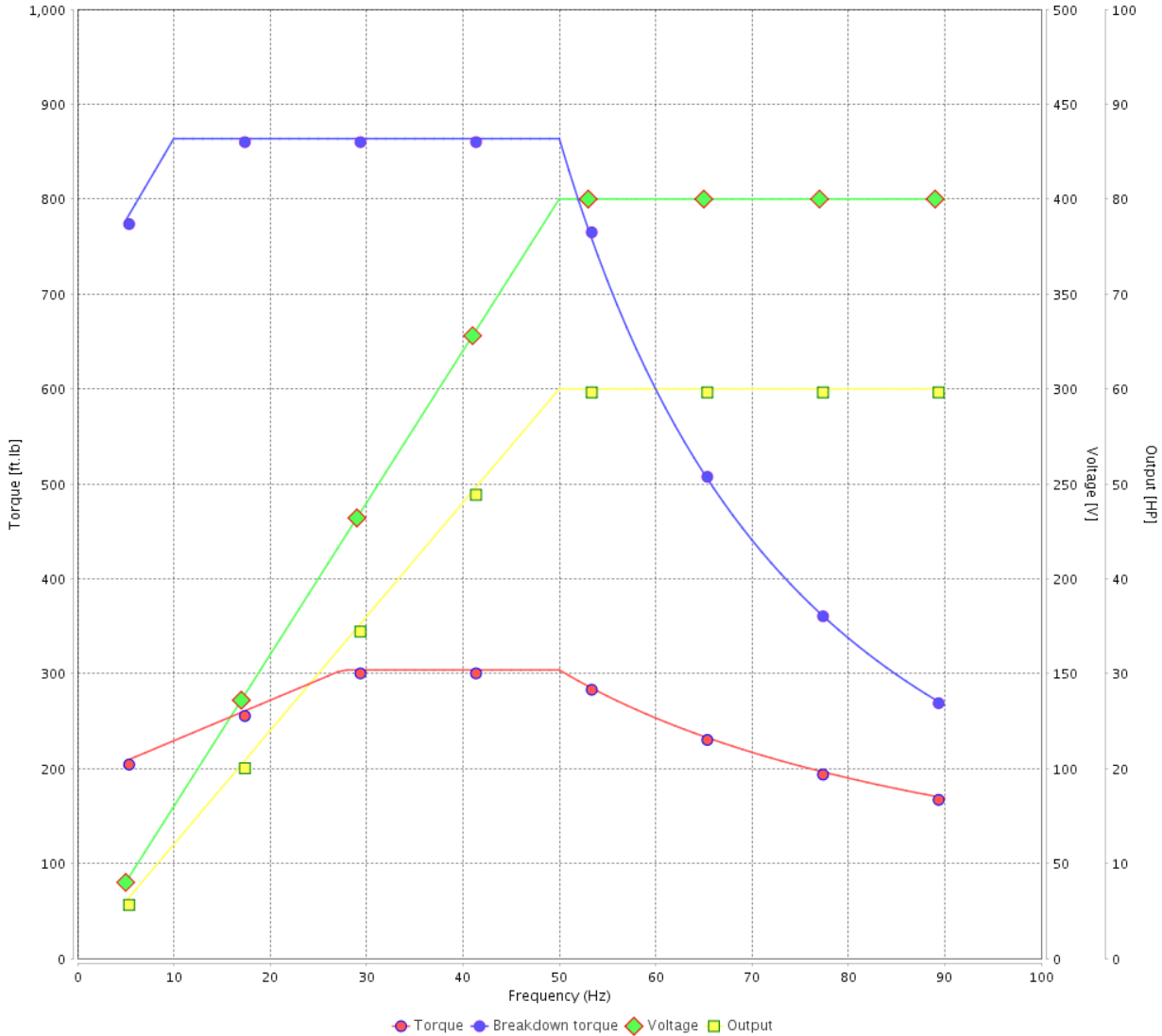
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 13273081

Catalog # : 07512ET3E405T-W22G

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

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Date				
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

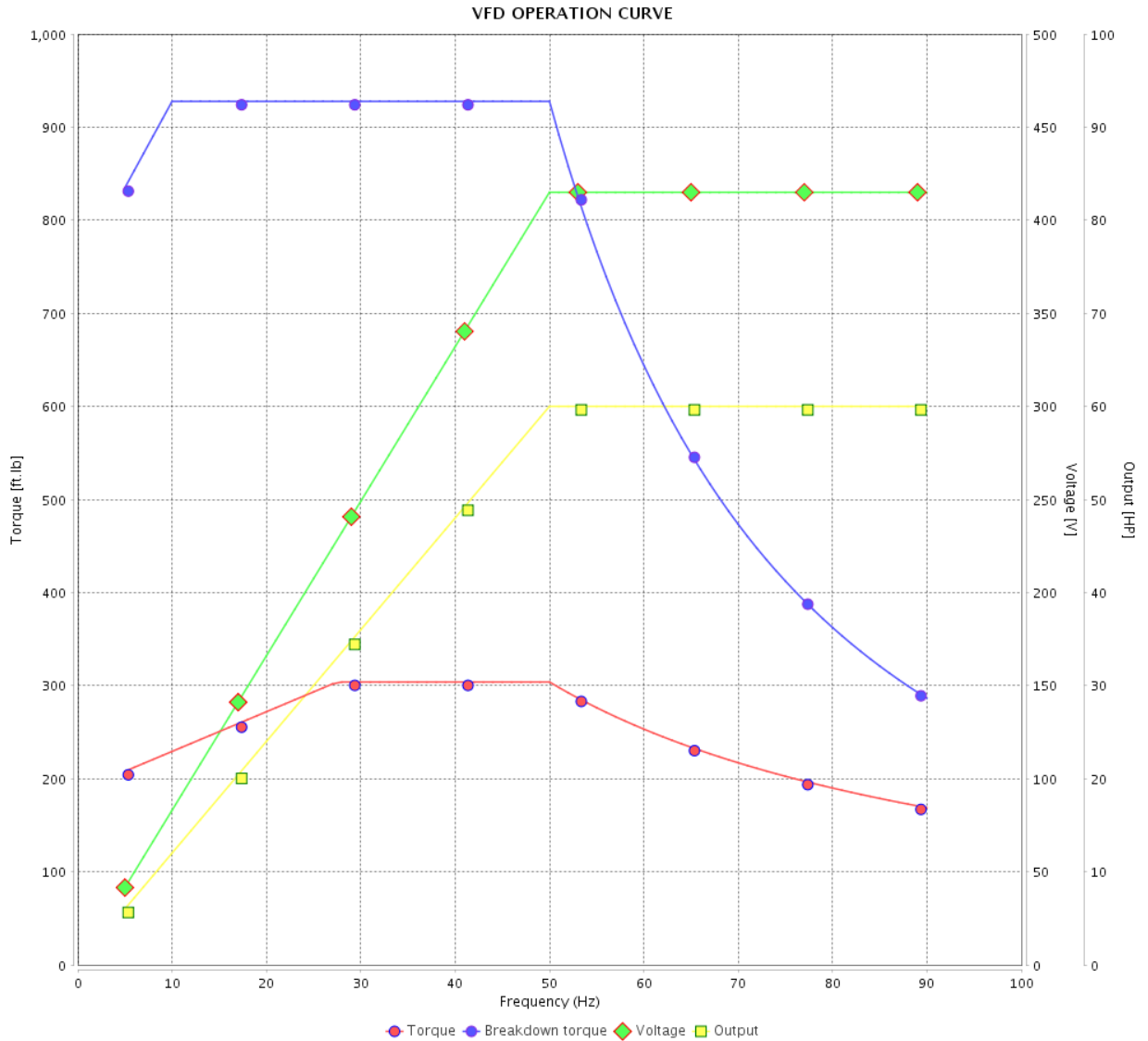


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 13273081

Catalog # : 07512ET3E405T-W22G



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

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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



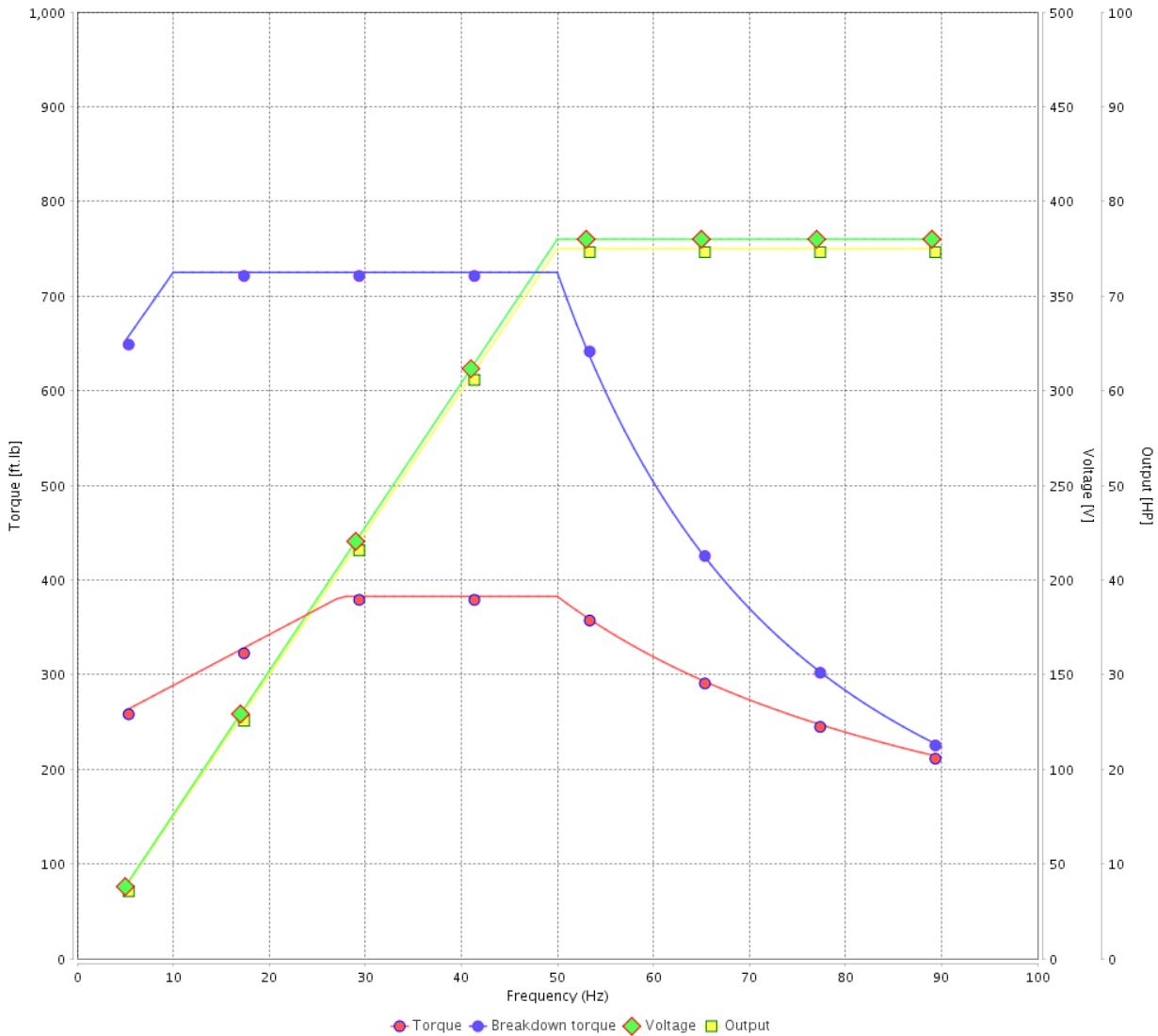
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 13273081

Catalog # : 07512ET3E405T-W22G

VFD OPERATION 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

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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

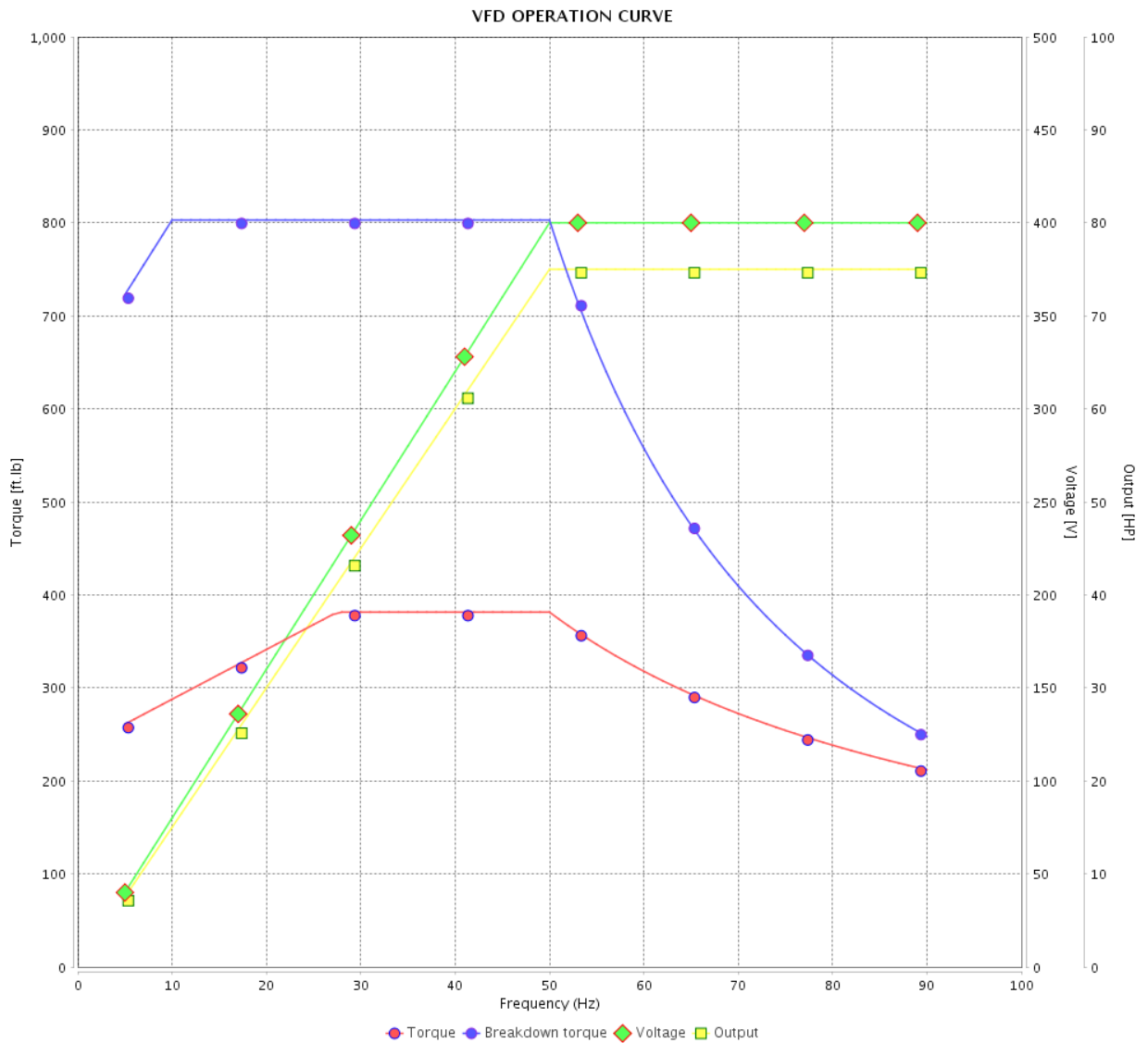


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 13273081

Catalog # : 07512ET3E405T-W22G



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

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 35 / 36	Revision
Checked by				
Date	13/04/2022			

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



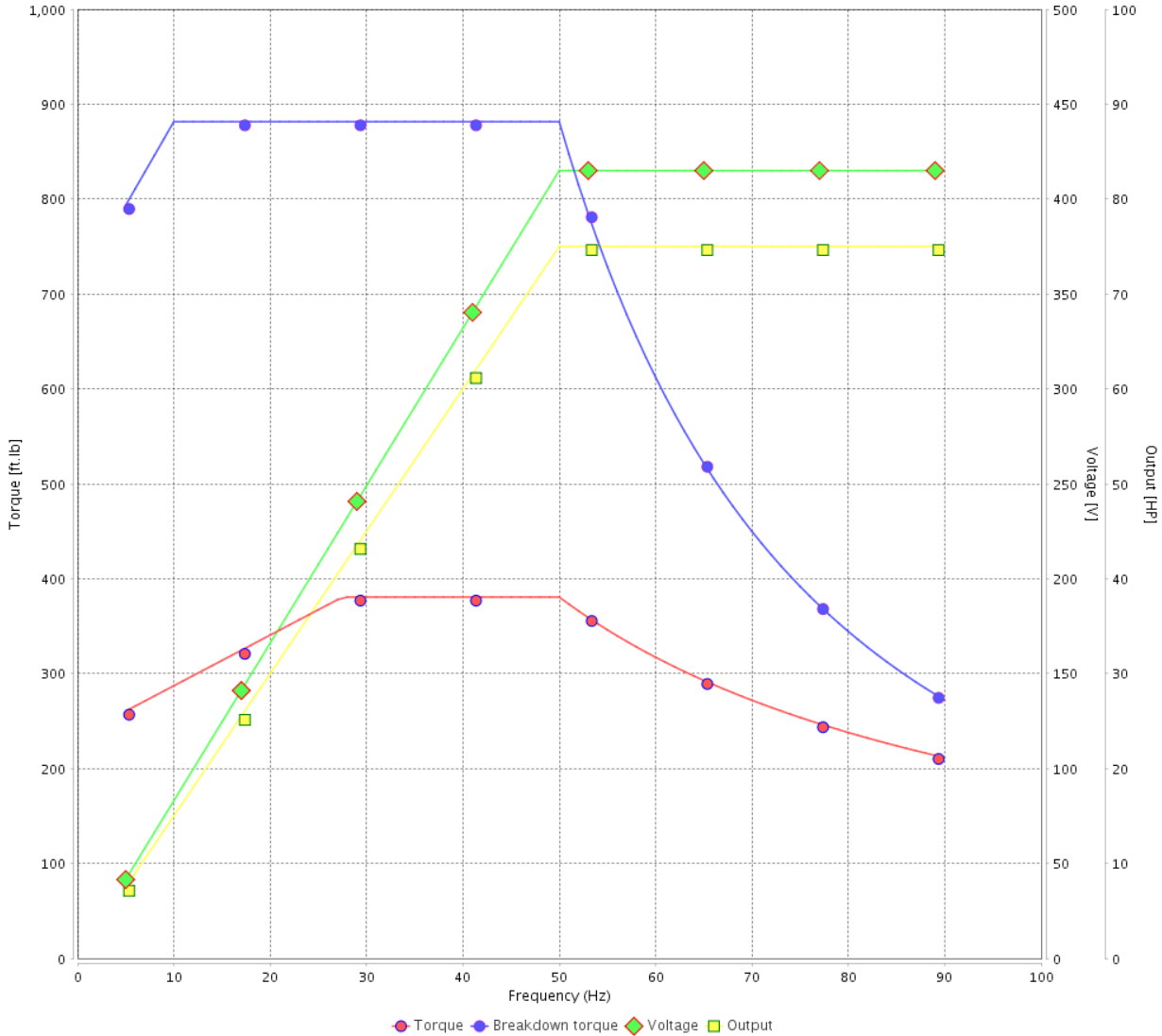
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 13273081

Catalog # : 07512ET3E405T-W22G

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

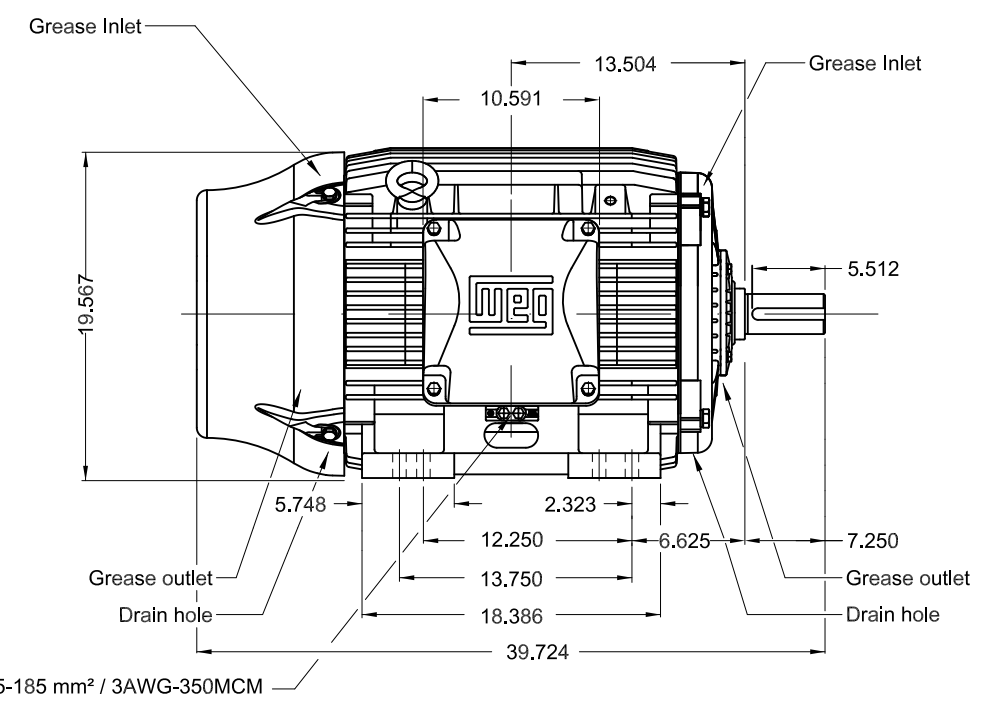
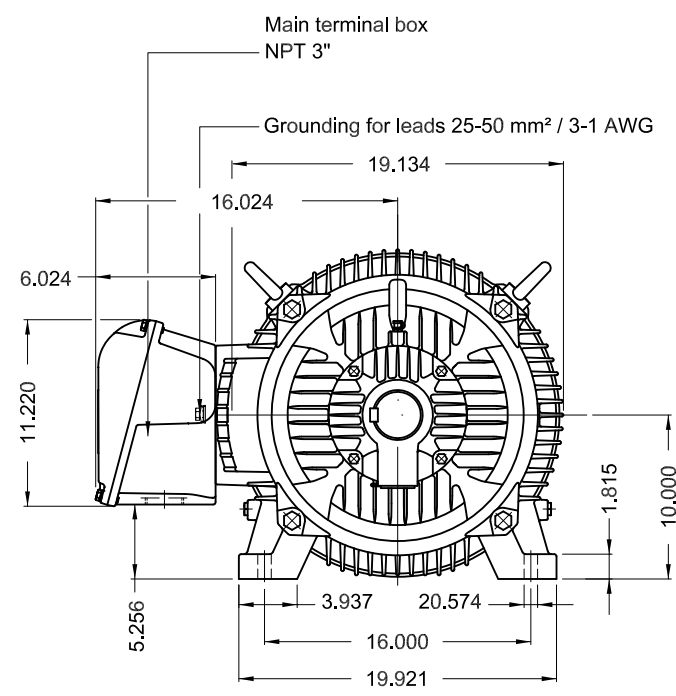
Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page	Revision
Checked by				
Date				

1 2 3 4 5 6

A

B

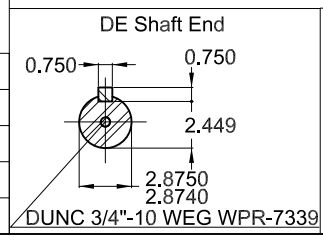
C



D

E

- Internal AEGIS ground ring on the DE
- Color RAL 5009
- Painting plan 203A
- Mounting NEMA F-1
- Mounting B3R(D)



75 HP 06 Poles 60 Hz A

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

PREVIEW
WDD





MODEL 07512ET3E405T-W22G

Inverter Duty Motor
Severe Duty

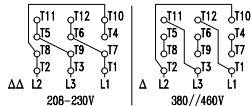




Mod.TE1BFOXON
CC029A


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

MADE IN BRAZIL
13273081

PH3	60Hz	Fr. 404/5T	1000m.a.s.l.	IP55	TEFC	1190lb	
V	230/460			A	170/84.9		
HP	75			kW	55		
SF	1.25			SFA	213/106		
RPM	1184			PF	0.86		
AMB	40°C			INS cl.	F DT80K	NEMA NOM EFF	94.5%
DUTY CONT.				DES B	Code G		
USABLE @208V	188A	SF 1.10	SFA 207				
75HP	55kW	50Hz	380V	104A	978RPM	SF 1.00	EFF 92.4% (IE1)



 → 6316-C3 (34g)
 → 6314-C3 (27g)

 MOBIL POLYREX EM (16000h)
