

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :								
Product line		: NEMA Premium Efficiency Three-Phase			Product code :		11431348	
					Catalog # :		01036ST3QIE215T-W22	
Frame : 213/5T Insulation class : F Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l. Protection degree : IP55 Design : B				Cooling method : IC411 - TEFC Mounting : F-1 Rotation ¹ : Both (CW and CCW) Starting method : Direct On Line Approx. weight ² : 167 lb Moment of inertia (J) : 0.6362 sq.ft.lb				
Output [HP]	10	7.5	7.5	7.5	10	10	10	
Poles	2	2	2	2	2	2	2	
Frequency [Hz]	60	50	50	50	50	50	50	
Rated voltage [V]	460	380	400	415	380	400	415	
Rated current [A]	11.6	10.5	10.2	9.91	14.1	13.6	13.1	
L. R. Amperes [A]	83.5	83.0	88.7	90.2	79.0	87.0	90.4	
LRC [A]	7.2x(Code H)	7.9x(Code J)	8.7x(Code K)	9.1x(Code K)	5.6x(Code F)	6.4x(Code G)	6.9x(Code H)	
No load current [A]	3.60	3.50	3.70	4.00	3.50	3.70	4.00	
Rated speed [RPM]	3520	2930	2940	2945	2880	2900	2910	
Slip [%]	2.22	2.33	2.00	1.83	4.00	3.33	3.00	
Rated torque [ft.lb]	14.9	13.4	13.4	13.4	18.2	18.1	18.0	
Locked rotor torque [%]	220	229	270	290	170	190	210	
Breakdown torque [%]	290	300	340	360	220	250	270	
Service factor	1.25	1.25	1.25	1.25	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	32s (cold) 18s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)	
Noise level ²	68.0 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%							
	50%	89.5	88.6	88.4	87.7	89.5	89.5	
	75%	90.2	89.6	89.6	89.5	89.5	89.5	
	100%	90.2	89.5	89.5	89.8	88.5	88.5	
Power Factor	25%							
	50%	0.79	0.75	0.72	0.70	0.83	0.81	
	75%	0.87	0.86	0.83	0.81	0.90	0.88	
	100%	0.90	0.89	0.87	0.86	0.91	0.90	
Bearing type		Drive end : 6308 C3	Non drive end : 6207 C3	Foundation loads				
Sealing		Inpro/Seal	Inpro/Seal	Max. traction		: 191 lb		
Lubrication interval		20000 h	20000 h	Max. compression		: 358 lb		
Lubricant amount		11 g	7 g					
Lubricant type		Mobil Polyrex EM						
Notes								
This revision replaces and cancel the previous one, which must be eliminated. (1) Looking the motor from the shaft end. (2) Measured at 1m and with tolerance of +3dB(A). (3) Approximate weight subject to changes after manufacturing process. (4) At 100% of full load.				These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.				
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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



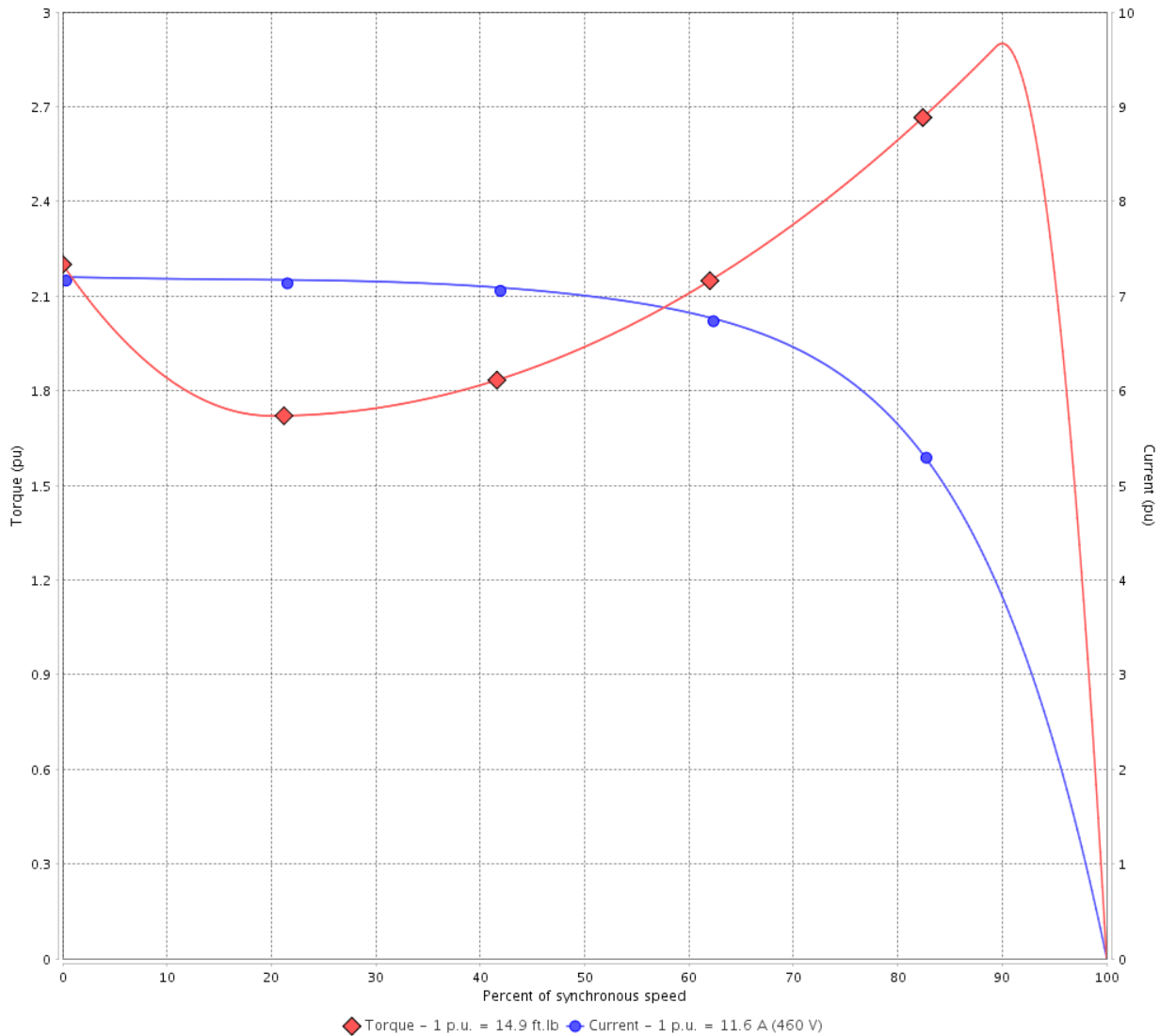
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11431348

Catalog # : 01036ST3QIE215T-W22

TORQUE AND CURRENT VS SPEED CURVE



Performance : 460 V 60 Hz 2P

Rated current	: 11.6 A	Moment of inertia (J)	: 0.6362 sq.ft.lb
LRC	: 7.2	Duty cycle	: Cont.(S1)
Rated torque	: 14.9 ft.lb	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.25
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 3520 rpm	Design	: B

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

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TORQUE AND CURRENT VS SPEED CURVE



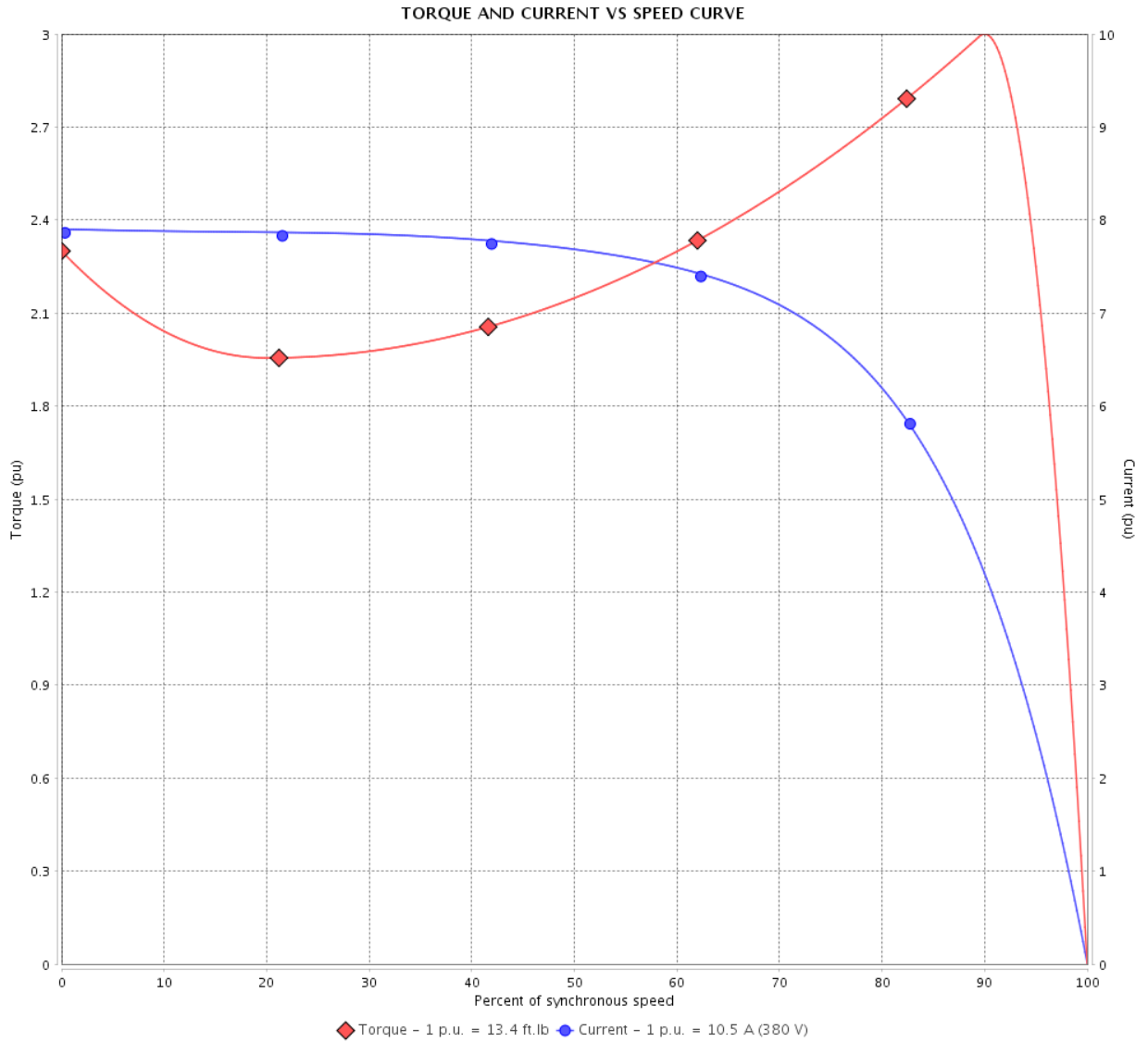
Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11431348

Catalog # : 01036ST3QIE215T-W22



Performance : 380 V 50 Hz 2P IE3

Rated current : 10.5 A
 LRC : 7.9
 Rated torque : 13.4 ft.lb
 Locked rotor torque : 229 %
 Breakdown torque : 300 %
 Rated speed : 2930 rpm

Moment of inertia (J) : 0.6362 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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

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TORQUE AND CURRENT VS SPEED CURVE

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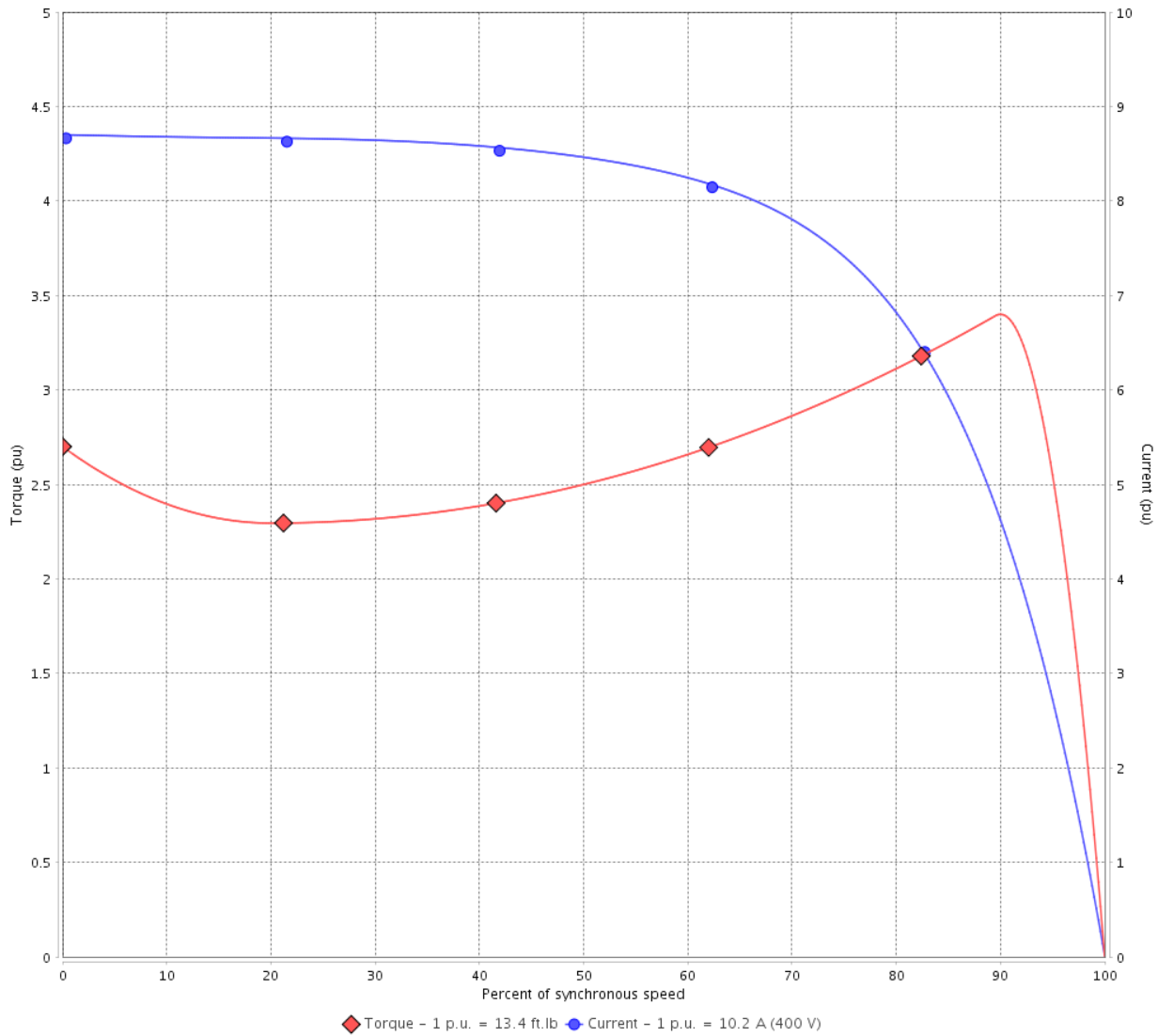
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Catalog # : 01036ST3QIE215T-W22

TORQUE AND CURRENT VS SPEED CURVE



Performance : 400 V 50 Hz 2P IE3

Rated current	: 10.2 A	Moment of inertia (J)	: 0.6362 sq.ft.lb
LRC	: 8.7	Duty cycle	: Cont.(S1)
Rated torque	: 13.4 ft.lb	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.25
Breakdown torque	: 340 %	Temperature rise	: 80 K
Rated speed	: 2940 rpm	Design	: B

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

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TORQUE AND CURRENT VS SPEED CURVE



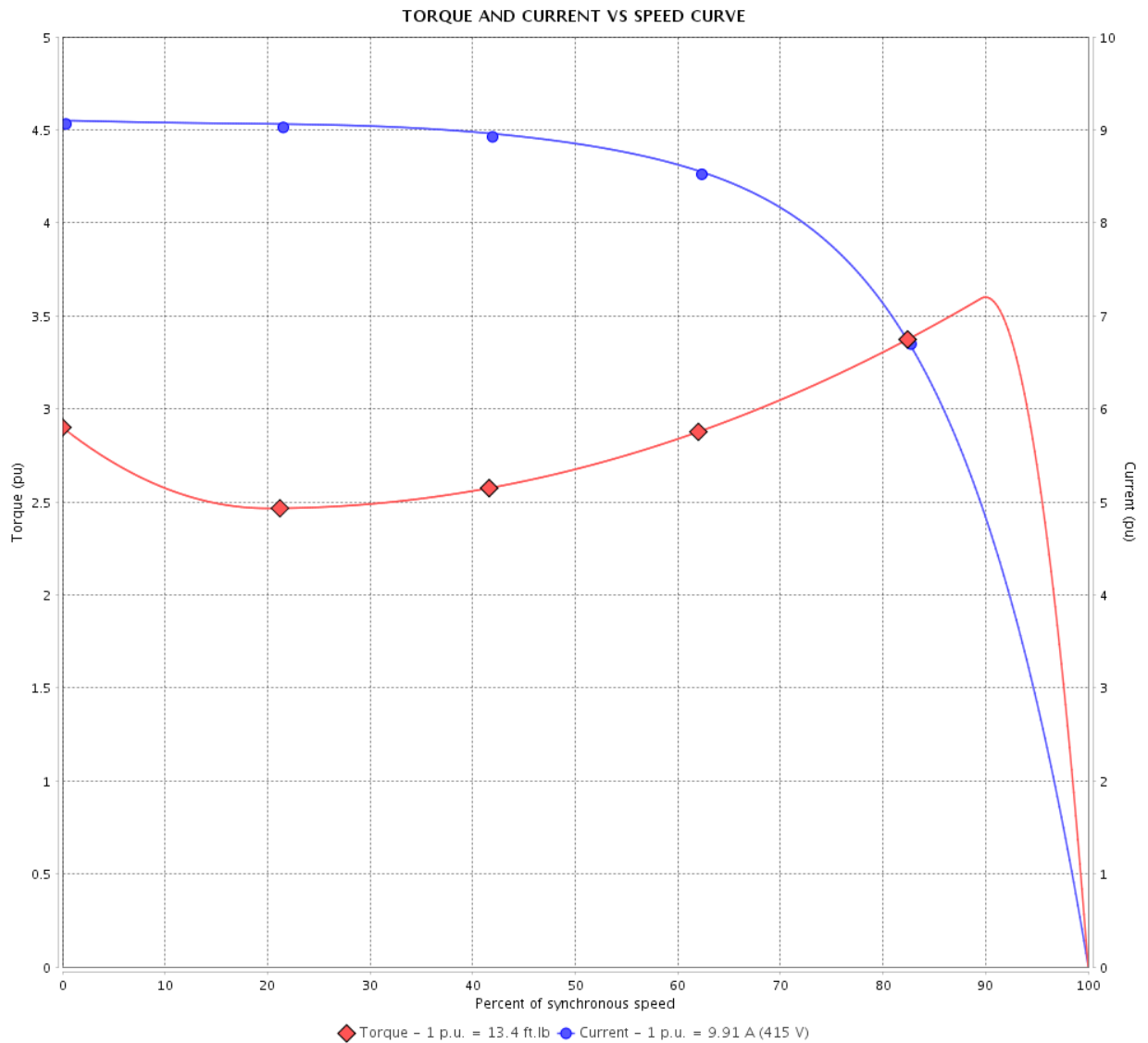
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Performance : 415 V 50 Hz 2P IE3

Rated current : 9.91 A
 LRC : 9.1
 Rated torque : 13.4 ft.lb
 Locked rotor torque : 290 %
 Breakdown torque : 360 %
 Rated speed : 2945 rpm

Moment of inertia (J) : 0.6362 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



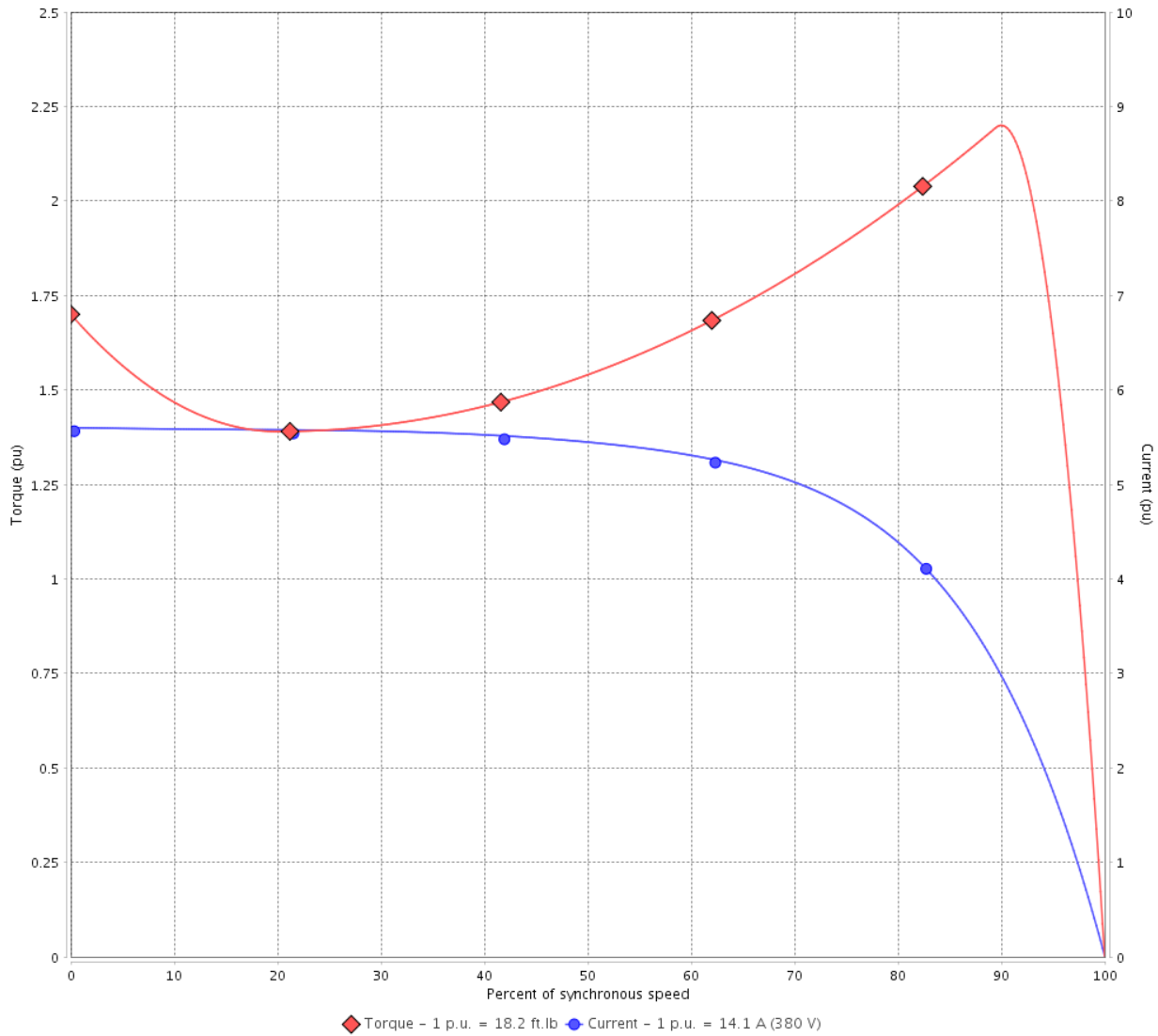
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TORQUE AND CURRENT VS SPEED CURVE



Performance : 380 V 50 Hz 2P IE2

Rated current	: 14.1 A	Moment of inertia (J)	: 0.6362 sq.ft.lb
LRC	: 5.6	Duty cycle	: Cont.(S1)
Rated torque	: 18.2 ft.lb	Insulation class	: F
Locked rotor torque	: 170 %	Service factor	: 1.00
Breakdown torque	: 220 %	Temperature rise	: 105 K
Rated speed	: 2880 rpm	Design	: B

Locked rotor time : 21s (cold) 12s (hot)

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TORQUE AND CURRENT VS SPEED CURVE



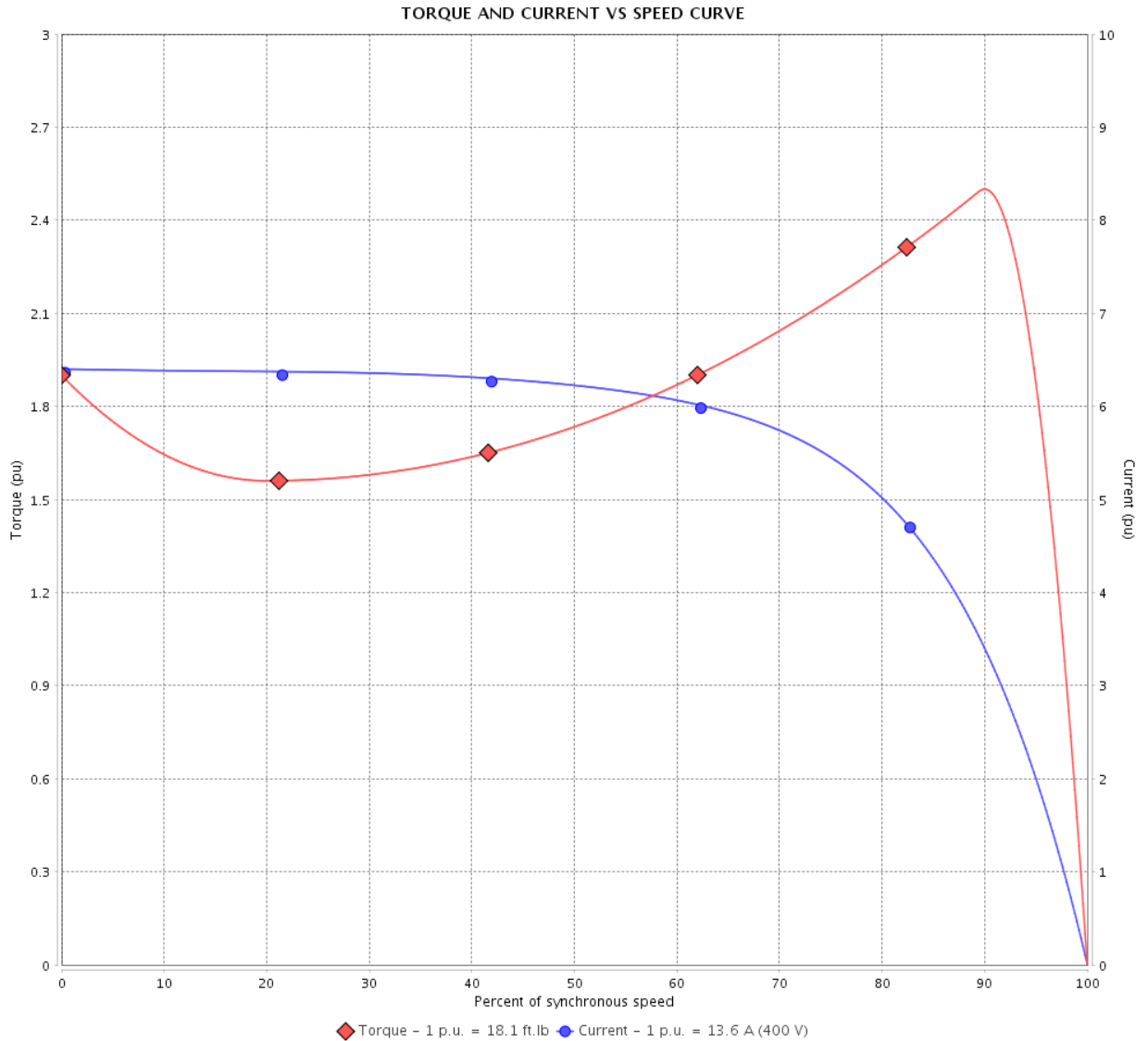
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Performance : 400 V 50 Hz 2P IE2

Rated current	: 13.6 A	Moment of inertia (J)	: 0.6362 sq.ft.lb
LRC	: 6.4	Duty cycle	: Cont.(S1)
Rated torque	: 18.1 ft.lb	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 250 %	Temperature rise	: 105 K
Rated speed	: 2900 rpm	Design	: B

Locked rotor time : 21s (cold) 12s (hot)

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Three Phase Induction Motor - Squirrel Cage



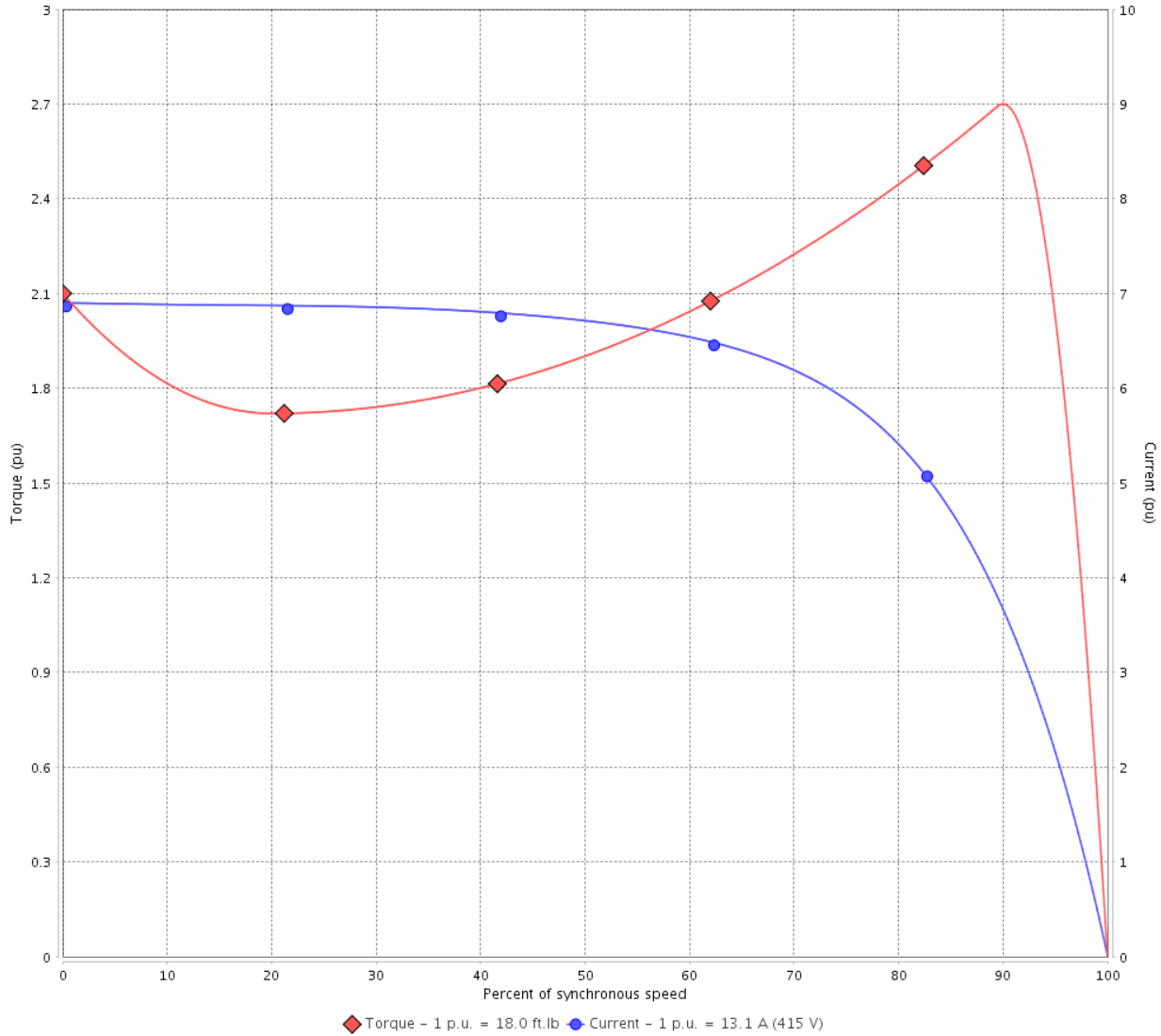
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Performance : 415 V 50 Hz 2P IE2

Rated current	: 13.1 A	Moment of inertia (J)	: 0.6362 sq.ft.lb
LRC	: 6.9	Duty cycle	: Cont.(S1)
Rated torque	: 18.0 ft.lb	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.00
Breakdown torque	: 270 %	Temperature rise	: 105 K
Rated speed	: 2910 rpm	Design	: B

Locked rotor time : 21s (cold) 12s (hot)

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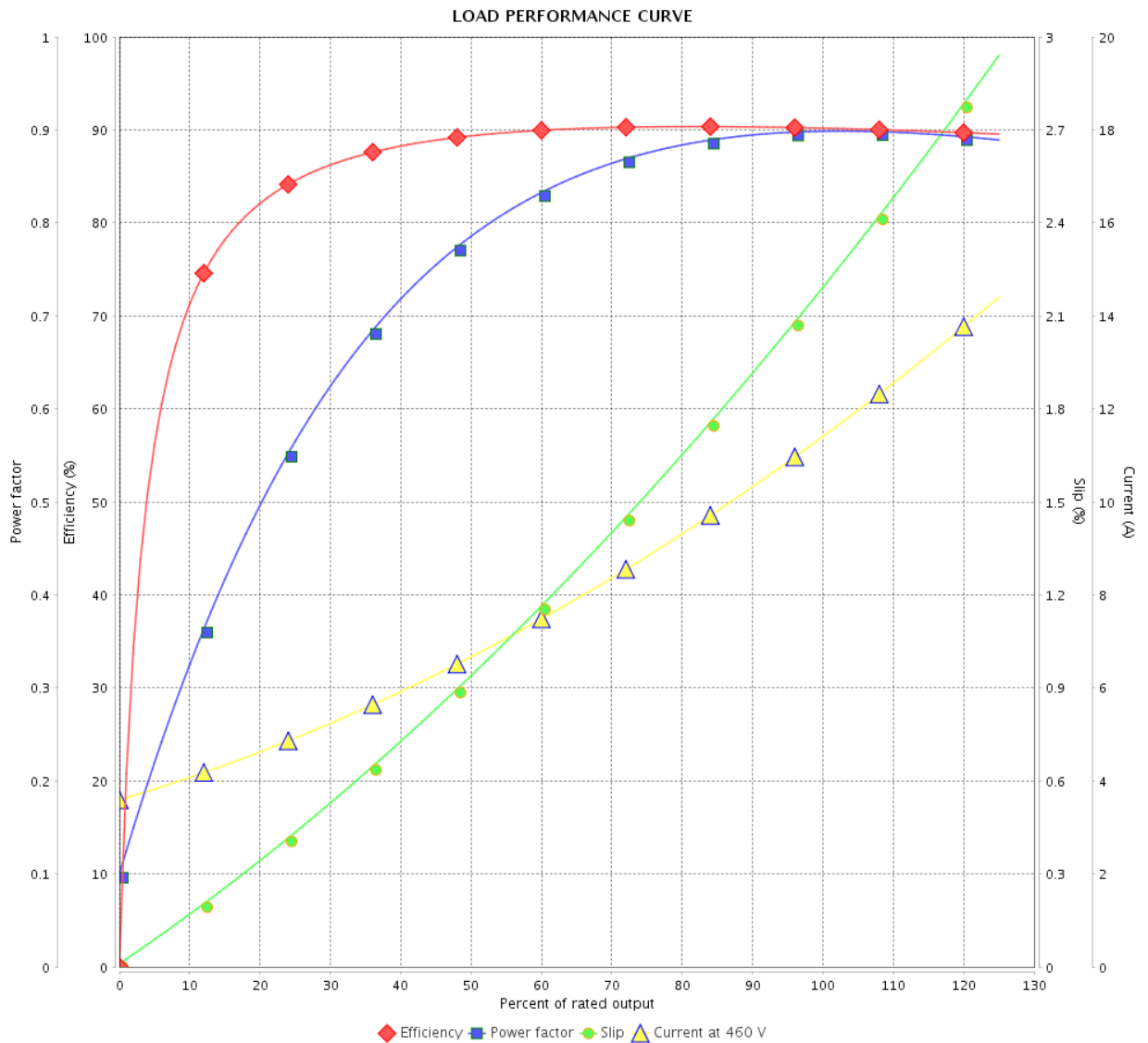


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Performance : 460 V 60 Hz 2P

Rated current : 11.6 A
 LRC : 7.2
 Rated torque : 14.9 ft.lb
 Locked rotor torque : 220 %
 Breakdown torque : 290 %
 Rated speed : 3520 rpm

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 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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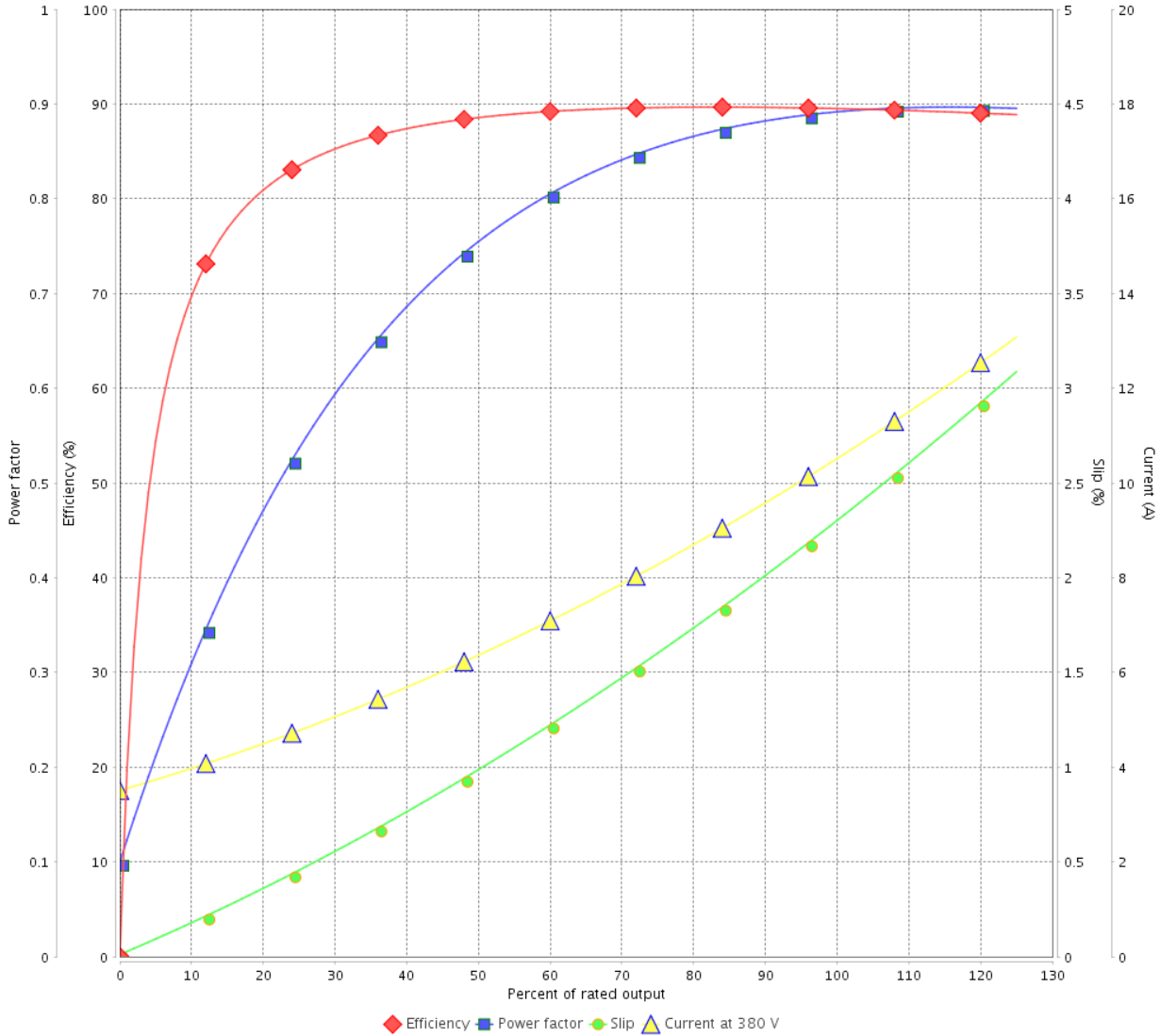
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Performance : 380 V 50 Hz 2P IE3

Rated current : 10.5 A
 LRC : 7.9
 Rated torque : 13.4 ft.lb
 Locked rotor torque : 229 %
 Breakdown torque : 300 %
 Rated speed : 2930 rpm

Moment of inertia (J) : 0.6362 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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Three Phase Induction Motor - Squirrel Cage

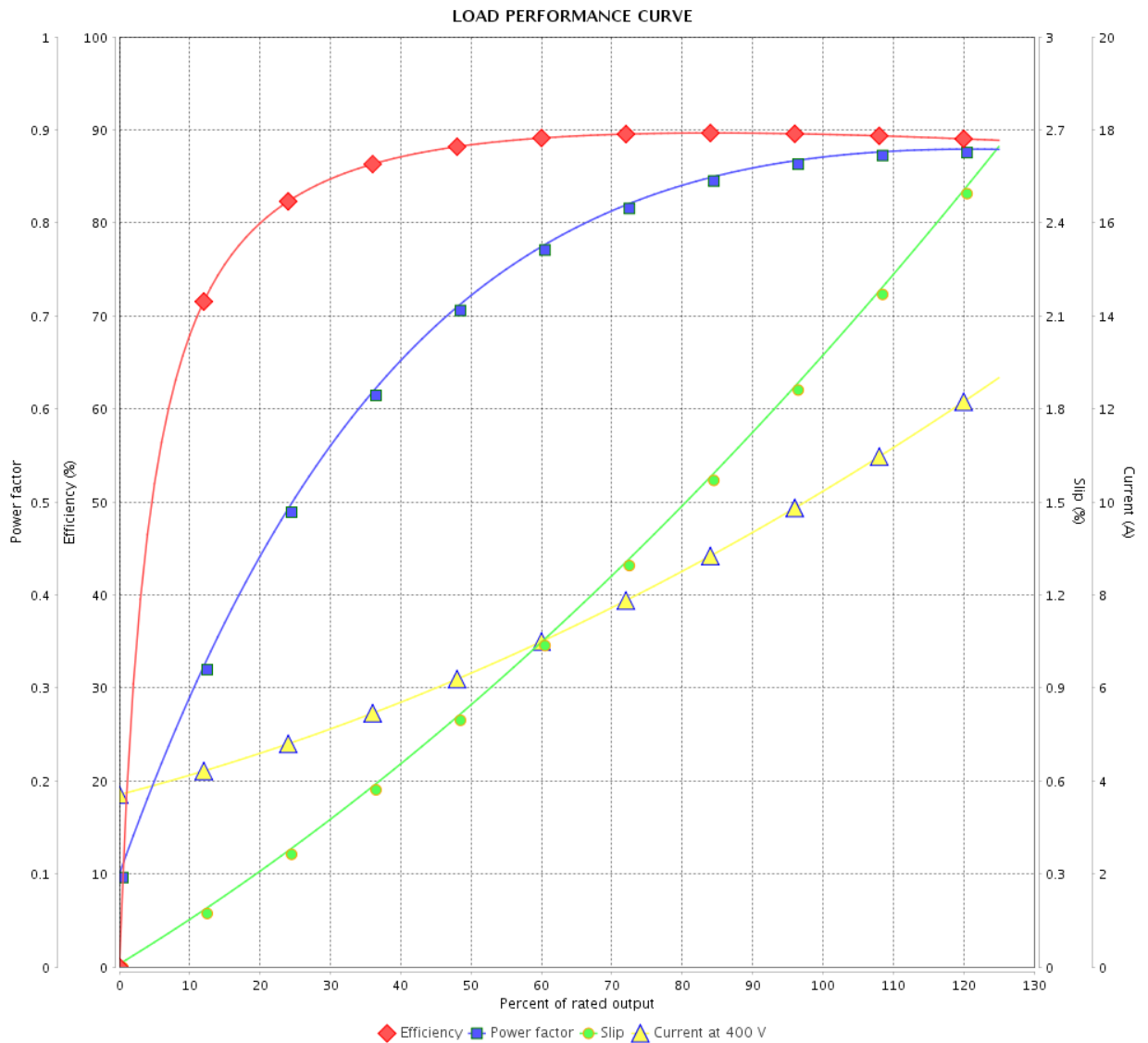


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Performance : 400 V 50 Hz 2P IE3

Rated current : 10.2 A
 LRC : 8.7
 Rated torque : 13.4 ft.lb
 Locked rotor torque : 270 %
 Breakdown torque : 340 %
 Rated speed : 2940 rpm

Moment of inertia (J) : 0.6362 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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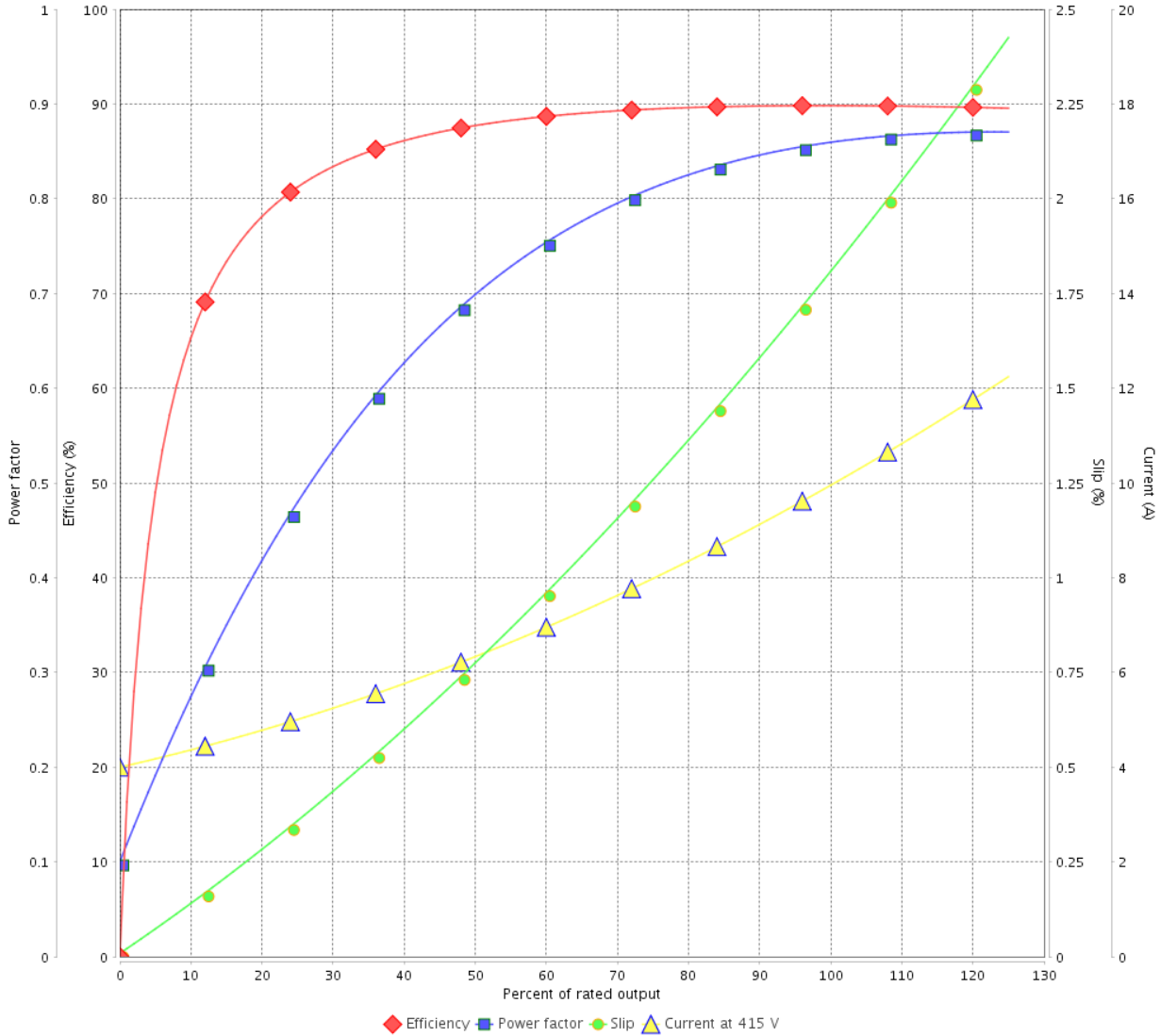
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Performance : 415 V 50 Hz 2P IE3

Rated current : 9.91 A
 LRC : 9.1
 Rated torque : 13.4 ft.lb
 Locked rotor torque : 290 %
 Breakdown torque : 360 %
 Rated speed : 2945 rpm

Moment of inertia (J) : 0.6362 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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Three Phase Induction Motor - Squirrel Cage

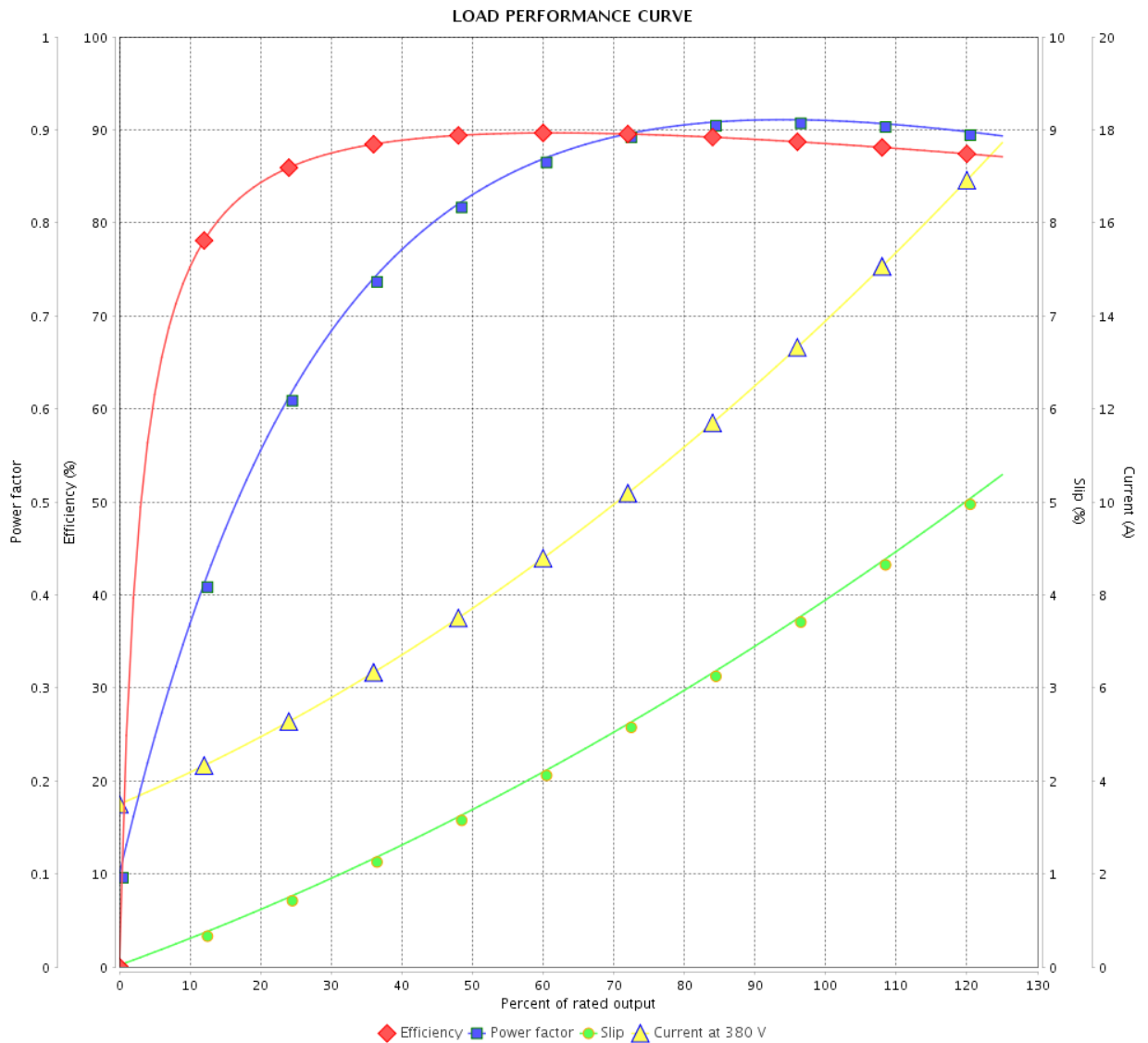


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Product line : NEMA Premium Efficiency Three-Phase

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Catalog # : 01036ST3QIE215T-W22



Performance : 380 V 50 Hz 2P IE2

Rated current : 14.1 A
 LRC : 5.6
 Rated torque : 18.2 ft.lb
 Locked rotor torque : 170 %
 Breakdown torque : 220 %
 Rated speed : 2880 rpm

Moment of inertia (J) : 0.6362 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



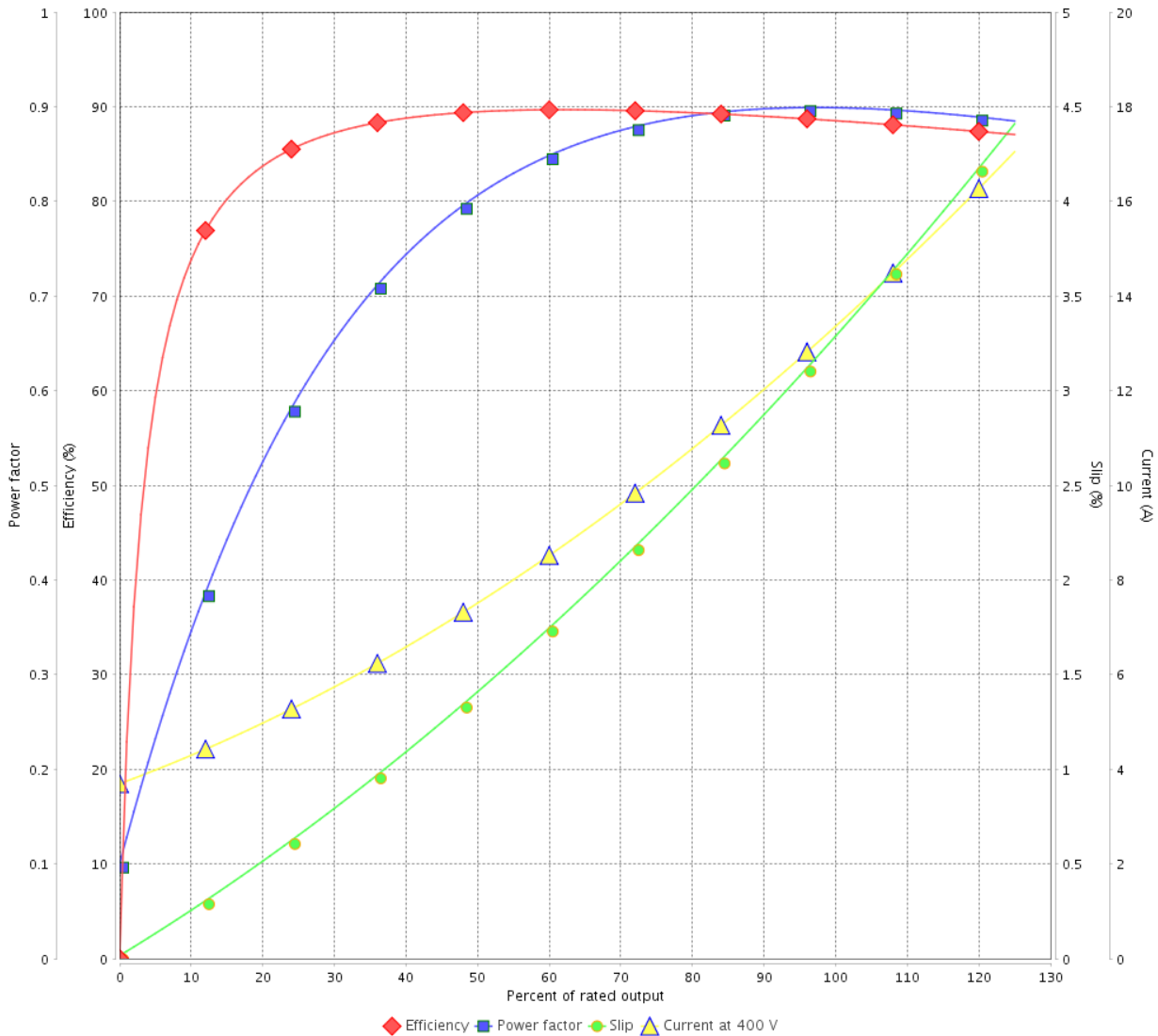
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LOAD PERFORMANCE CURVE



Performance : 400 V 50 Hz 2P IE2

Rated current : 13.6 A
 LRC : 6.4
 Rated torque : 18.1 ft.lb
 Locked rotor torque : 190 %
 Breakdown torque : 250 %
 Rated speed : 2900 rpm

Moment of inertia (J) : 0.6362 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

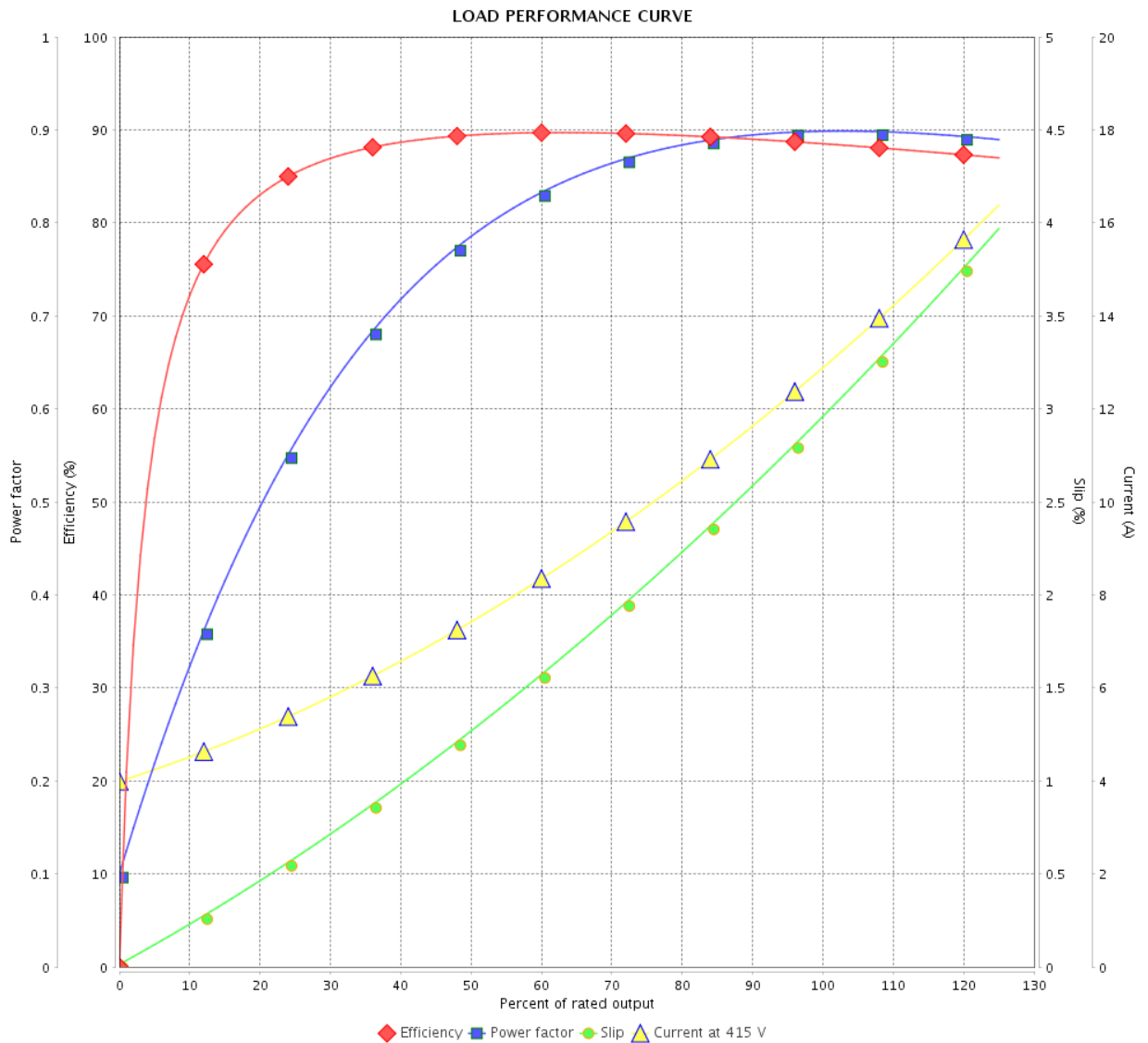


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Product line : NEMA Premium Efficiency Three-Phase

Product code : 11431348

Catalog # : 01036ST3QIE215T-W22



Performance : 415 V 50 Hz 2P IE2

Rated current : 13.1 A
 LRC : 6.9
 Rated torque : 18.0 ft.lb
 Locked rotor torque : 210 %
 Breakdown torque : 270 %
 Rated speed : 2910 rpm

Moment of inertia (J) : 0.6362 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



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LRC : 7.2
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Breakdown torque : 290 %
Rated speed : 3520 rpm

Moment of inertia (J) : 0.6362 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

Heating constant

Cooling constant

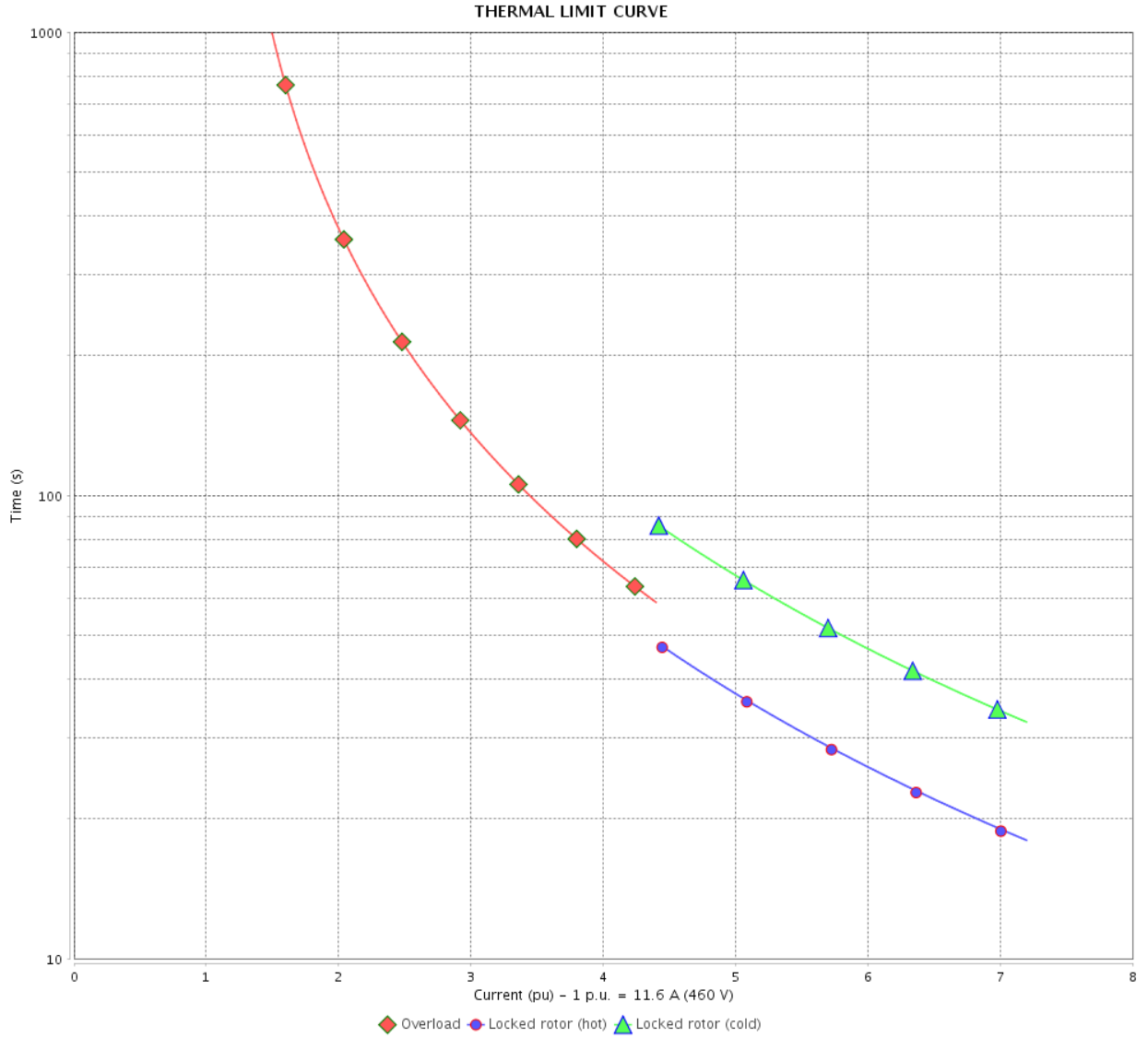
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Three Phase Induction Motor - Squirrel Cage



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THERMAL LIMIT CURVE



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Performance : 380 V 50 Hz 2P IE3

Rated current : 10.5 A
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Breakdown torque : 300 %
Rated speed : 2930 rpm

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Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

Heating constant

Cooling constant

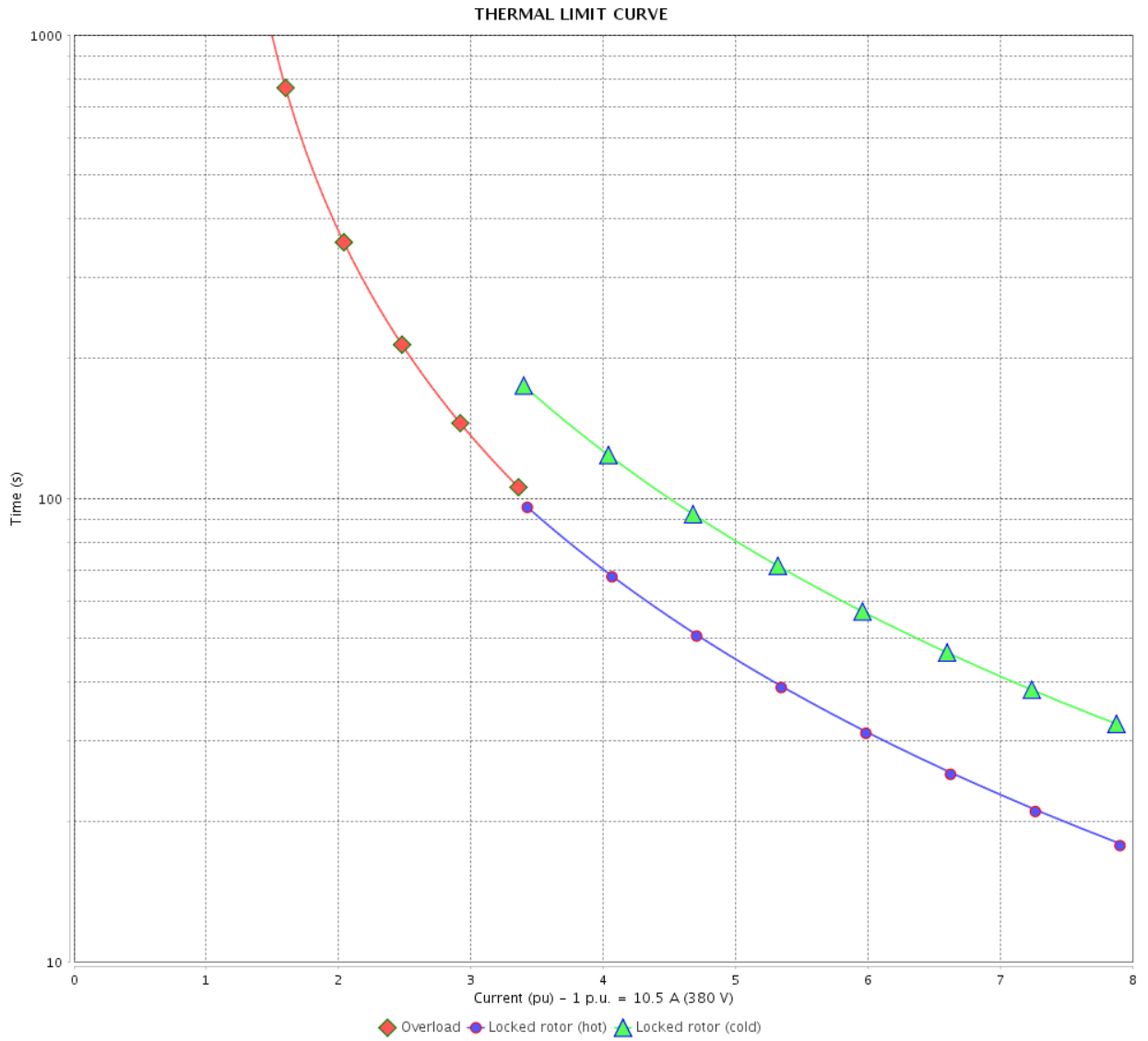
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Three Phase Induction Motor - Squirrel Cage



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Rated current : 10.2 A	Moment of inertia (J) : 0.6362 sq.ft.lb
LRC : 8.7	Duty cycle : Cont.(S1)
Rated torque : 13.4 ft.lb	Insulation class : F
Locked rotor torque : 270 %	Service factor : 1.25
Breakdown torque : 340 %	Temperature rise : 80 K
Rated speed : 2940 rpm	Design : B

Heating constant

Cooling constant

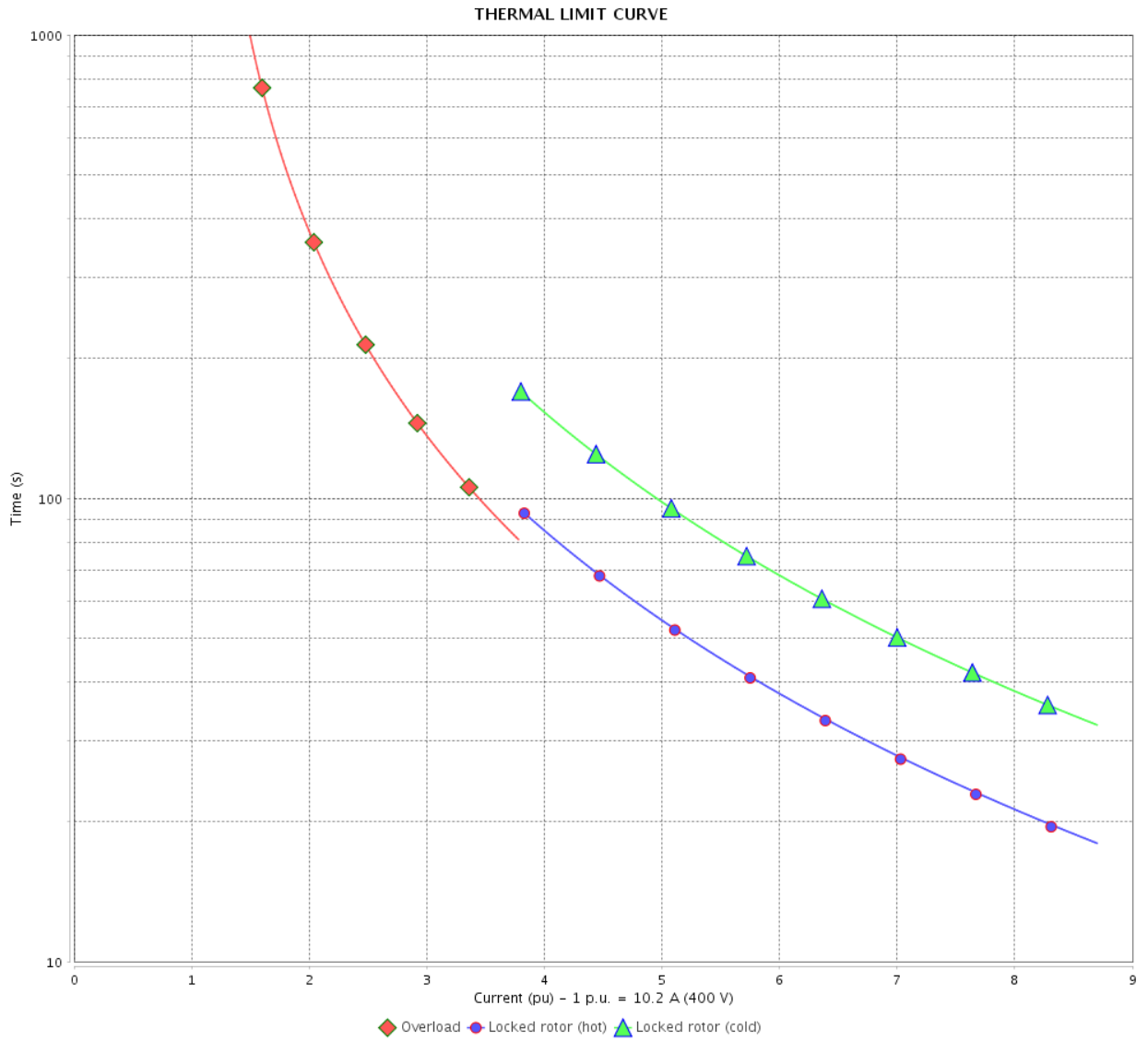
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Locked rotor torque : 290 %	Service factor : 1.25
Breakdown torque : 360 %	Temperature rise : 80 K
Rated speed : 2945 rpm	Design : B

Heating constant

Cooling constant

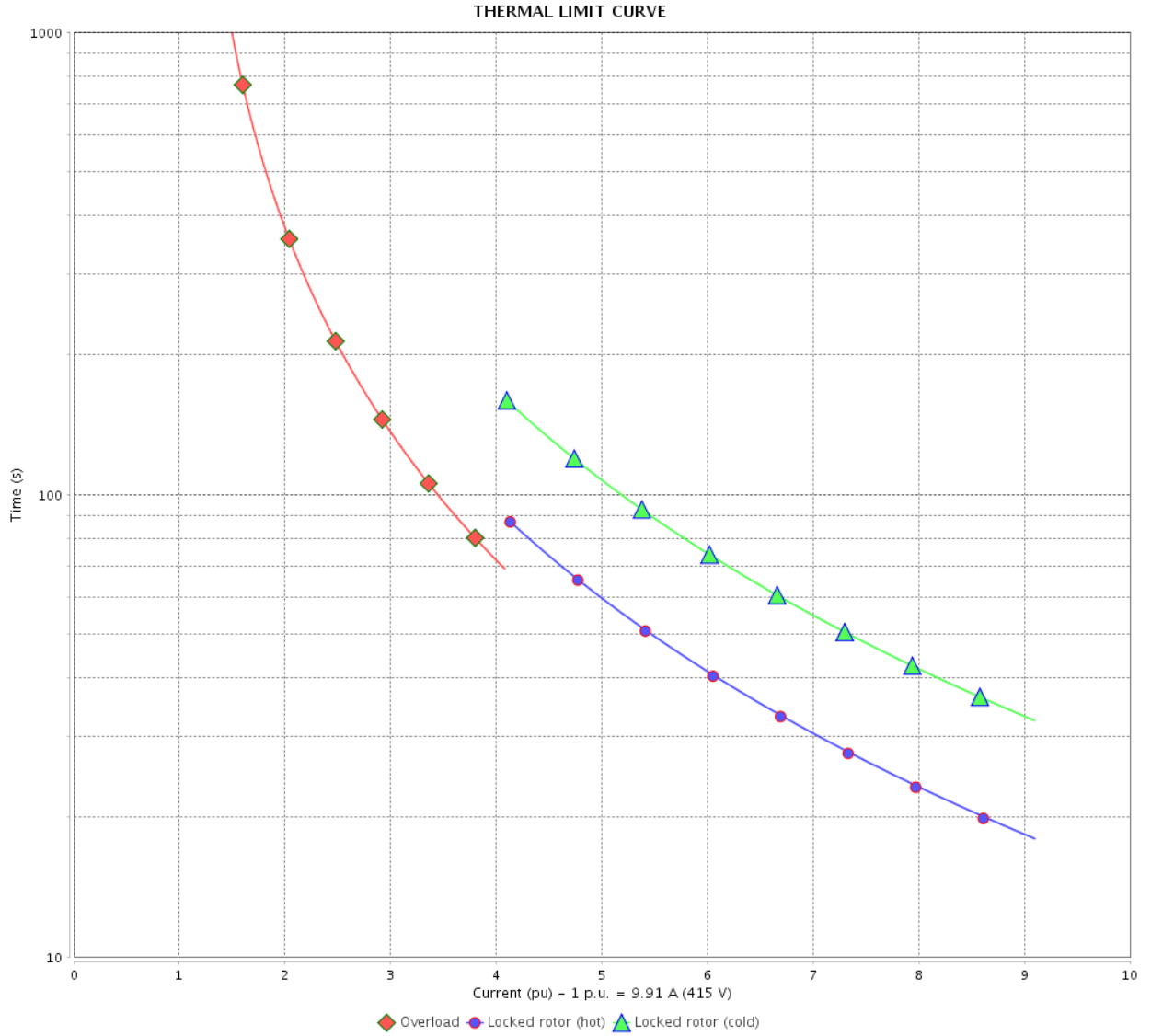
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THERMAL LIMIT CURVE

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Customer : _____



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Rated current	: 14.1 A	Moment of inertia (J)	: 0.6362 sq.ft.lb
LRC	: 5.6	Duty cycle	: Cont.(S1)
Rated torque	: 18.2 ft.lb	Insulation class	: F
Locked rotor torque	: 170 %	Service factor	: 1.00
Breakdown torque	: 220 %	Temperature rise	: 105 K
Rated speed	: 2880 rpm	Design	: B

Heating constant

Cooling constant

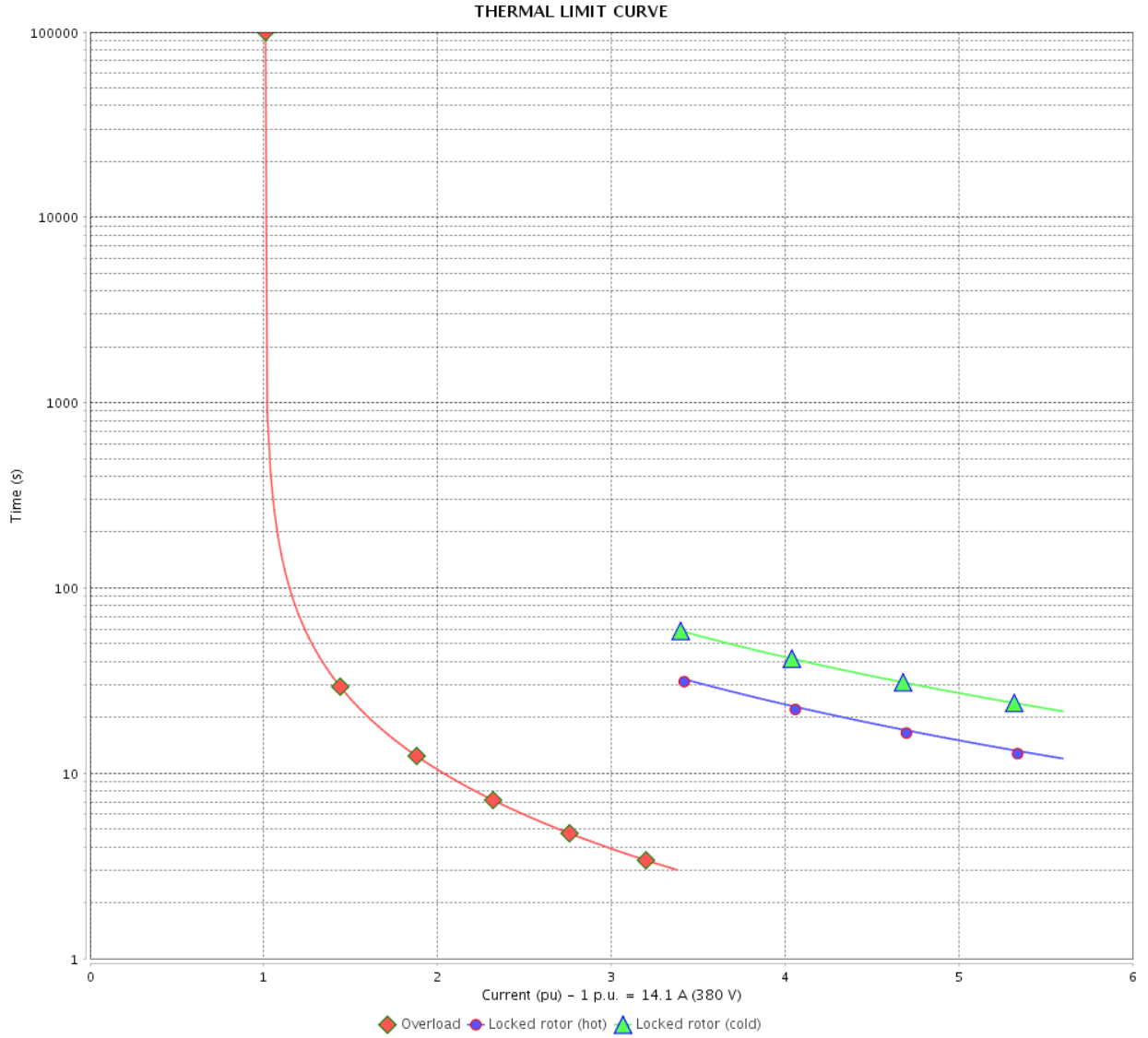
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Rated current	: 13.6 A	Moment of inertia (J)	: 0.6362 sq.ft.lb
LRC	: 6.4	Duty cycle	: Cont.(S1)
Rated torque	: 18.1 ft.lb	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 250 %	Temperature rise	: 105 K
Rated speed	: 2900 rpm	Design	: B

Heating constant

Cooling constant

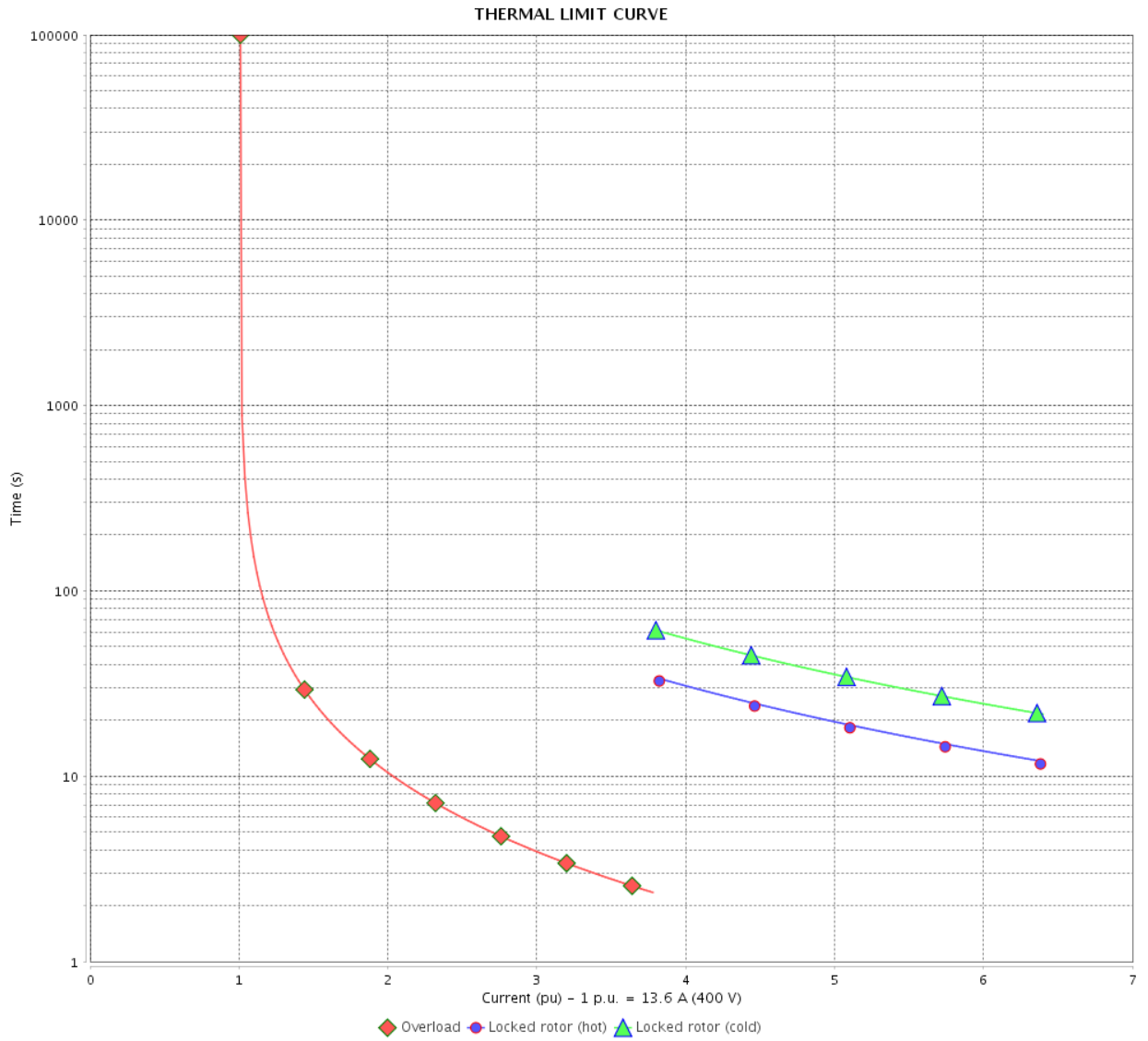
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	12/04/2022		26 / 36	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page		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 : 11431348
Catalog # : 01036ST3QIE215T-W22

Performance : 415 V 50 Hz 2P IE2

Rated current	: 13.1 A	Moment of inertia (J)	: 0.6362 sq.ft.lb
LRC	: 6.9	Duty cycle	: Cont.(S1)
Rated torque	: 18.0 ft.lb	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.00
Breakdown torque	: 270 %	Temperature rise	: 105 K
Rated speed	: 2910 rpm	Design	: B

Heating constant

Cooling constant

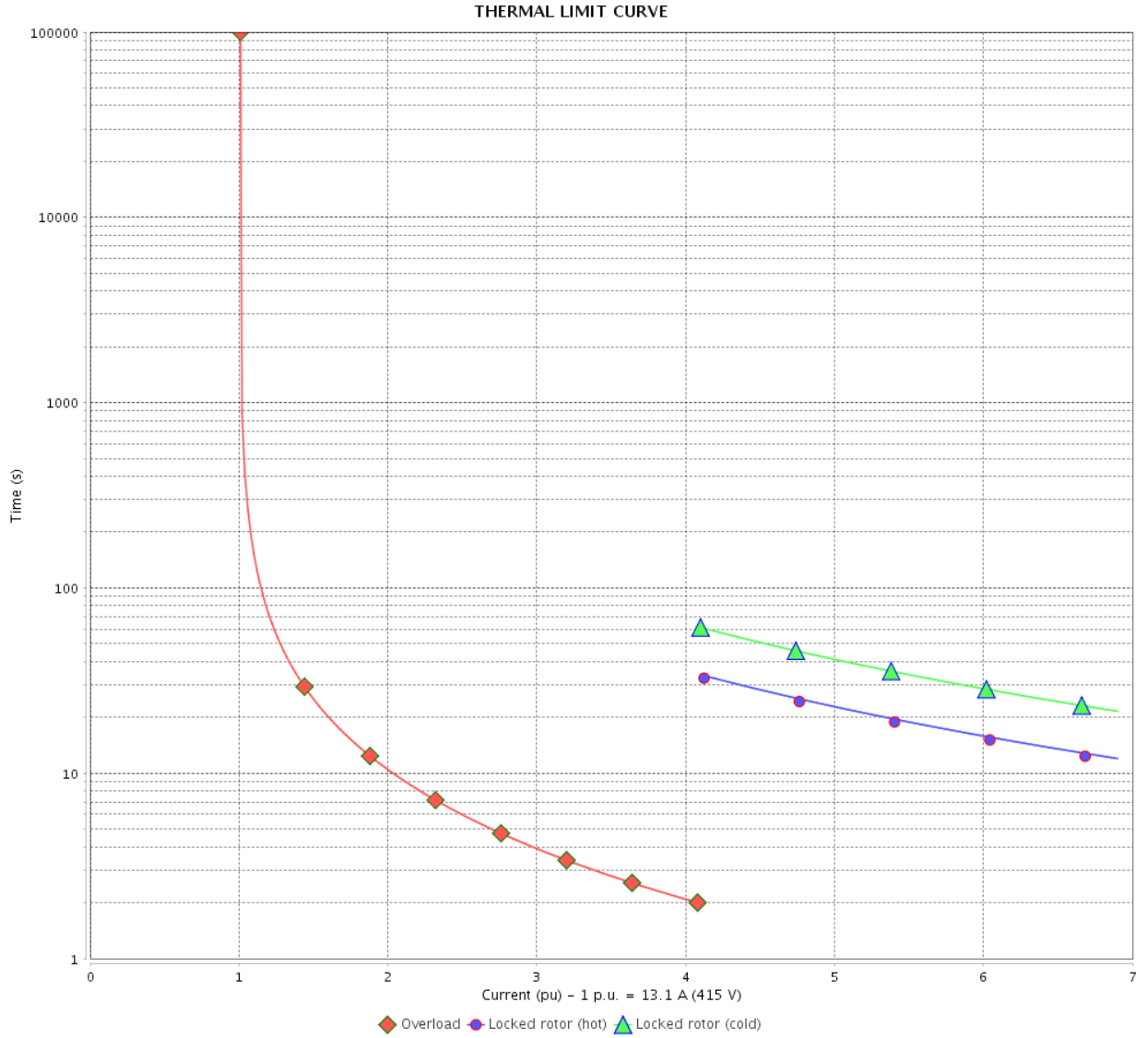
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Checked by			Page	Revision
Date	12/04/2022		28 / 36	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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Performed by		Page 29 / 36		Revision
Checked by				
Date				

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



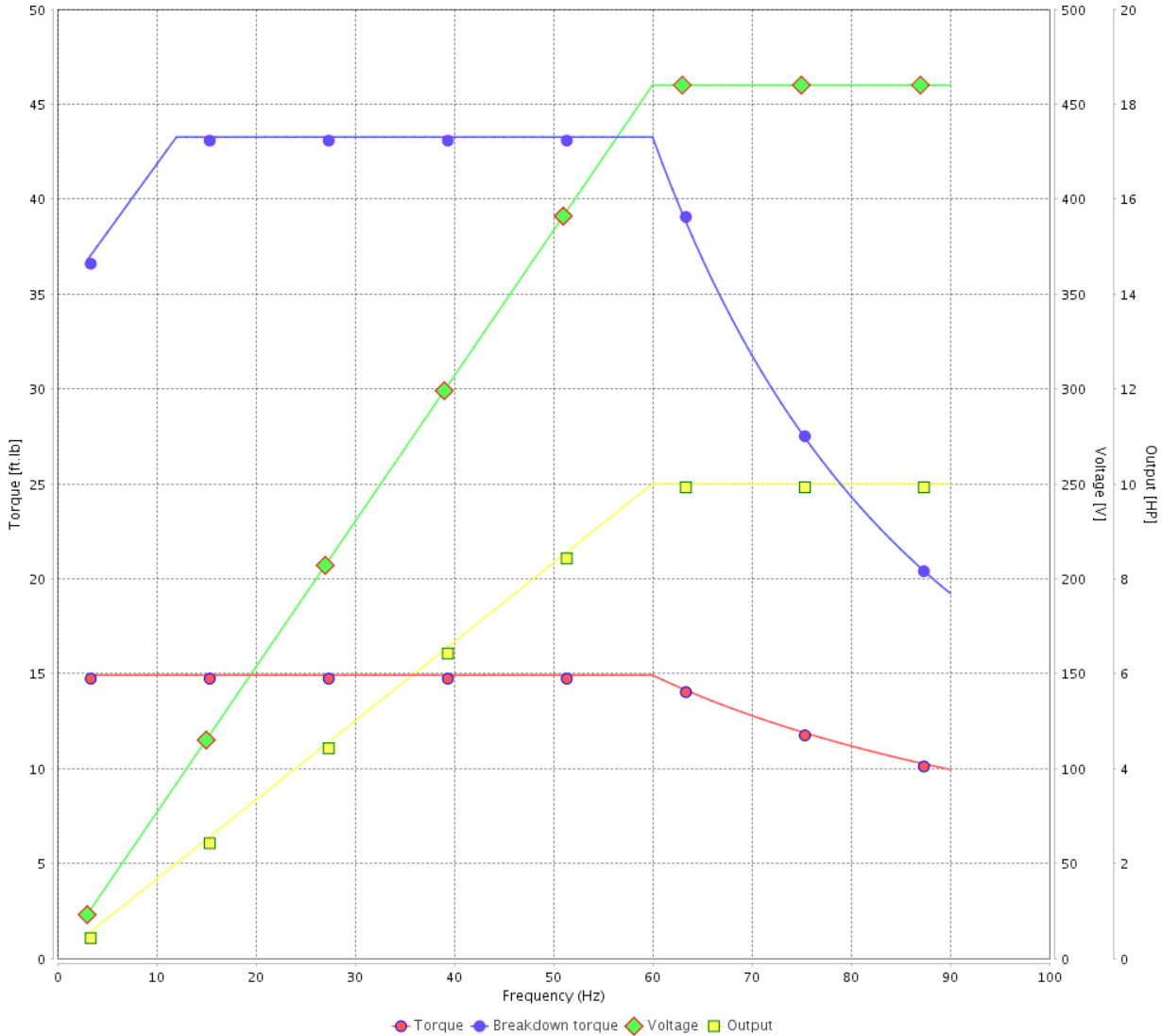
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11431348

Catalog # : 01036ST3QIE215T-W22

VFD OPERATION CURVE



Performance : 460 V 60 Hz 2P

Rated current : 11.6 A
 LRC : 7.2
 Rated torque : 14.9 ft.lb
 Locked rotor torque : 220 %
 Breakdown torque : 290 %
 Rated speed : 3520 rpm

Moment of inertia (J) : 0.6362 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				
			30 / 36	

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

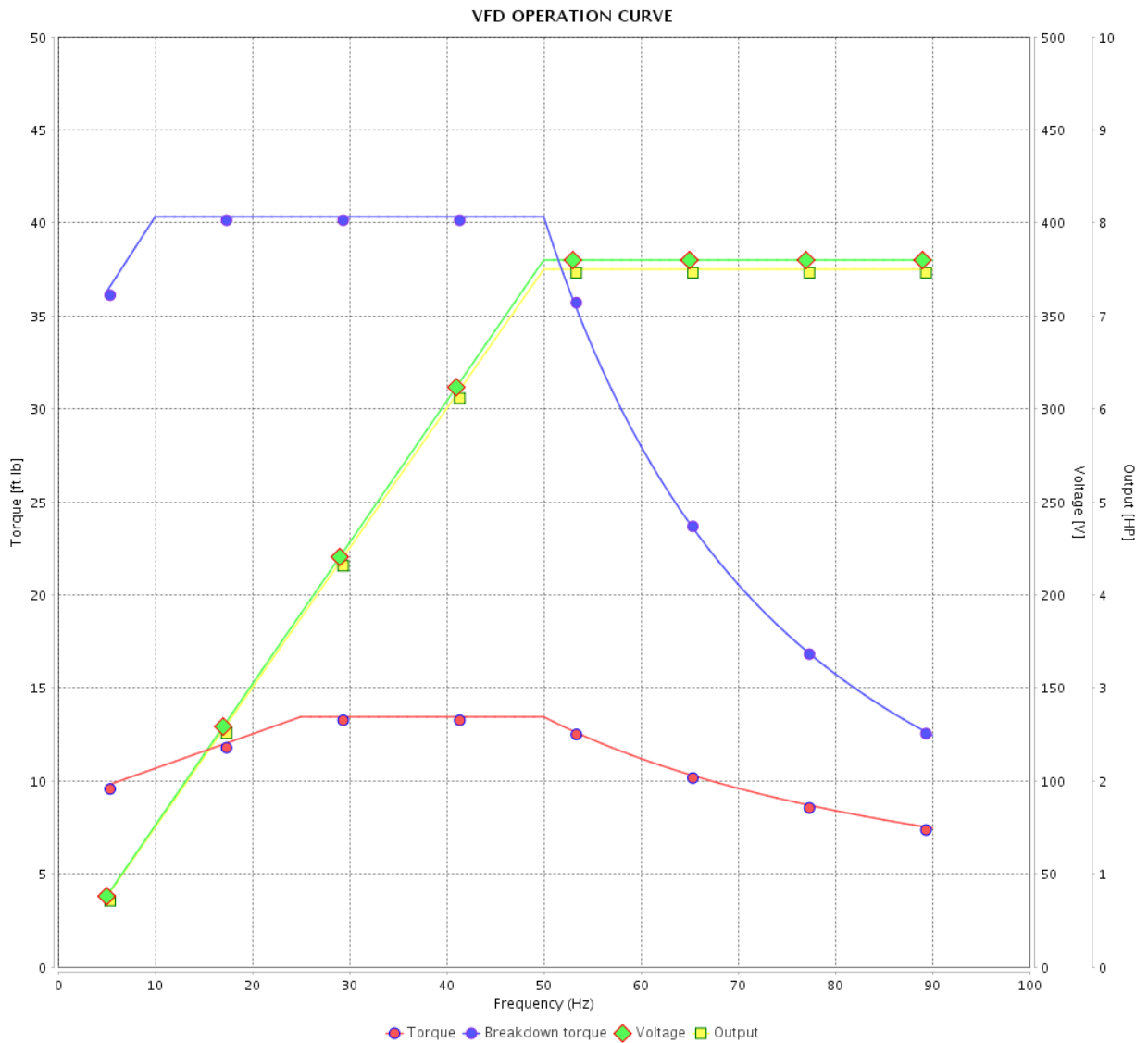


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11431348

Catalog # : 01036ST3QIE215T-W22



Performance : 380 V 50 Hz 2P IE3

Rated current : 10.5 A
 LRC : 7.9
 Rated torque : 13.4 ft.lb
 Locked rotor torque : 229 %
 Breakdown torque : 300 %
 Rated speed : 2930 rpm

Moment of inertia (J) : 0.6362 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 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



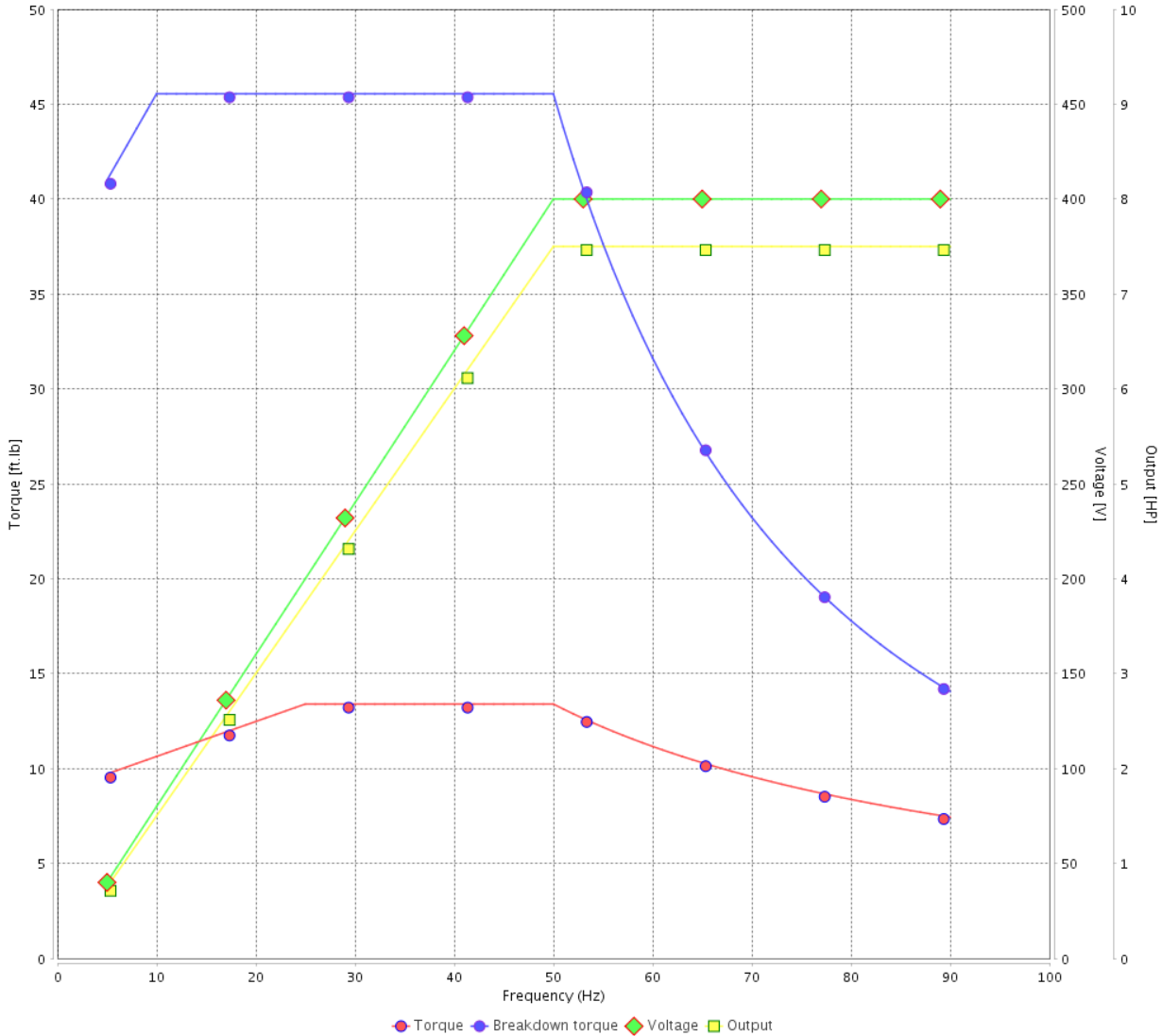
Customer : _____

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11431348

Catalog # : 01036ST3QIE215T-W22

VFD OPERATION CURVE



Performance : 400 V 50 Hz 2P IE3

Rated current : 10.2 A
 LRC : 8.7
 Rated torque : 13.4 ft.lb
 Locked rotor torque : 270 %
 Breakdown torque : 340 %
 Rated speed : 2940 rpm

Moment of inertia (J) : 0.6362 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 32 / 36	Revision
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Date	12/04/2022			

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

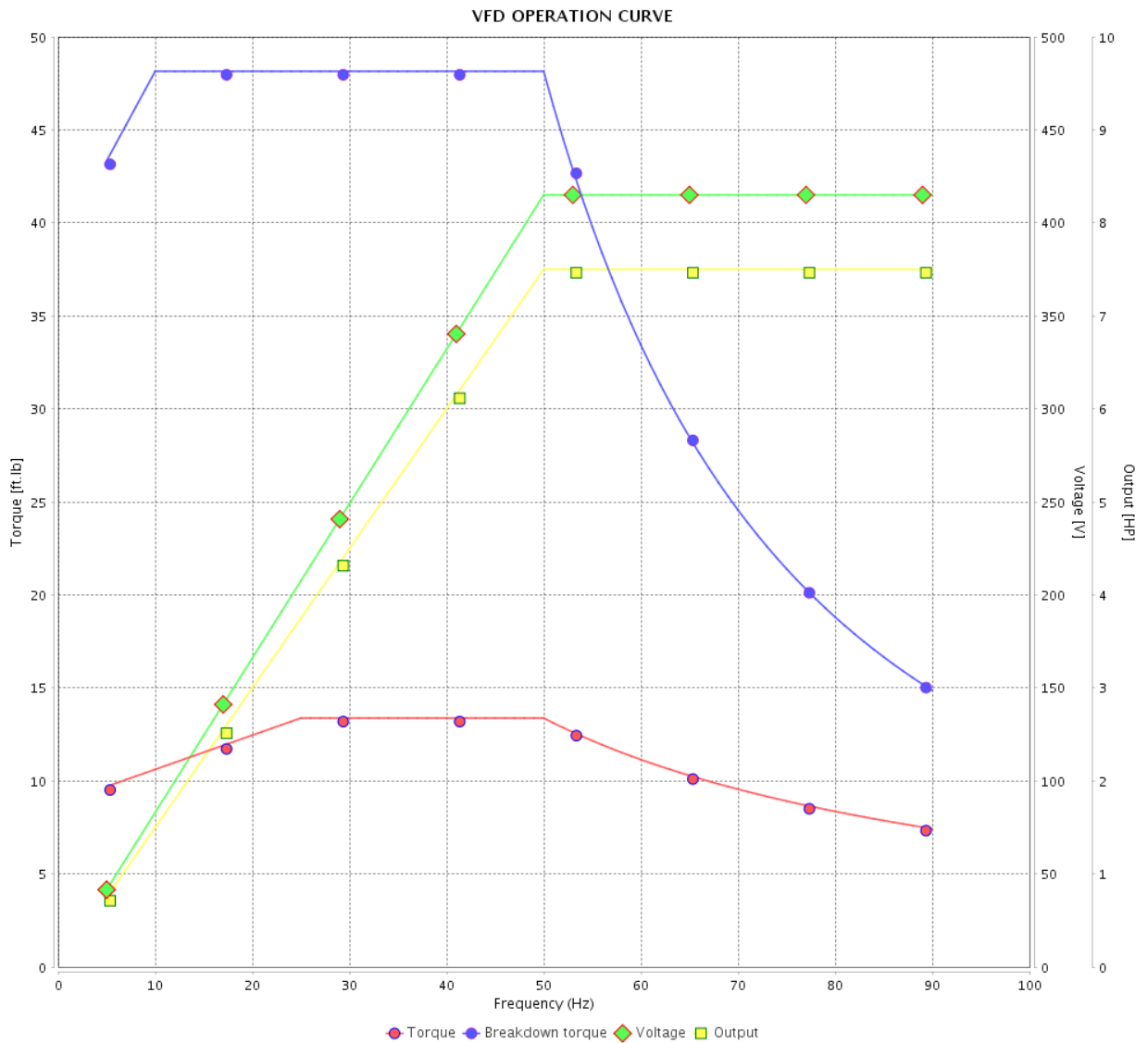


Customer : _____

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11431348

Catalog # : 01036ST3QIE215T-W22



Performance : 415 V 50 Hz 2P IE3

Rated current : 9.91 A
 LRC : 9.1
 Rated torque : 13.4 ft.lb
 Locked rotor torque : 290 %
 Breakdown torque : 360 %
 Rated speed : 2945 rpm

Moment of inertia (J) : 0.6362 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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Performed by			Page	Revision
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



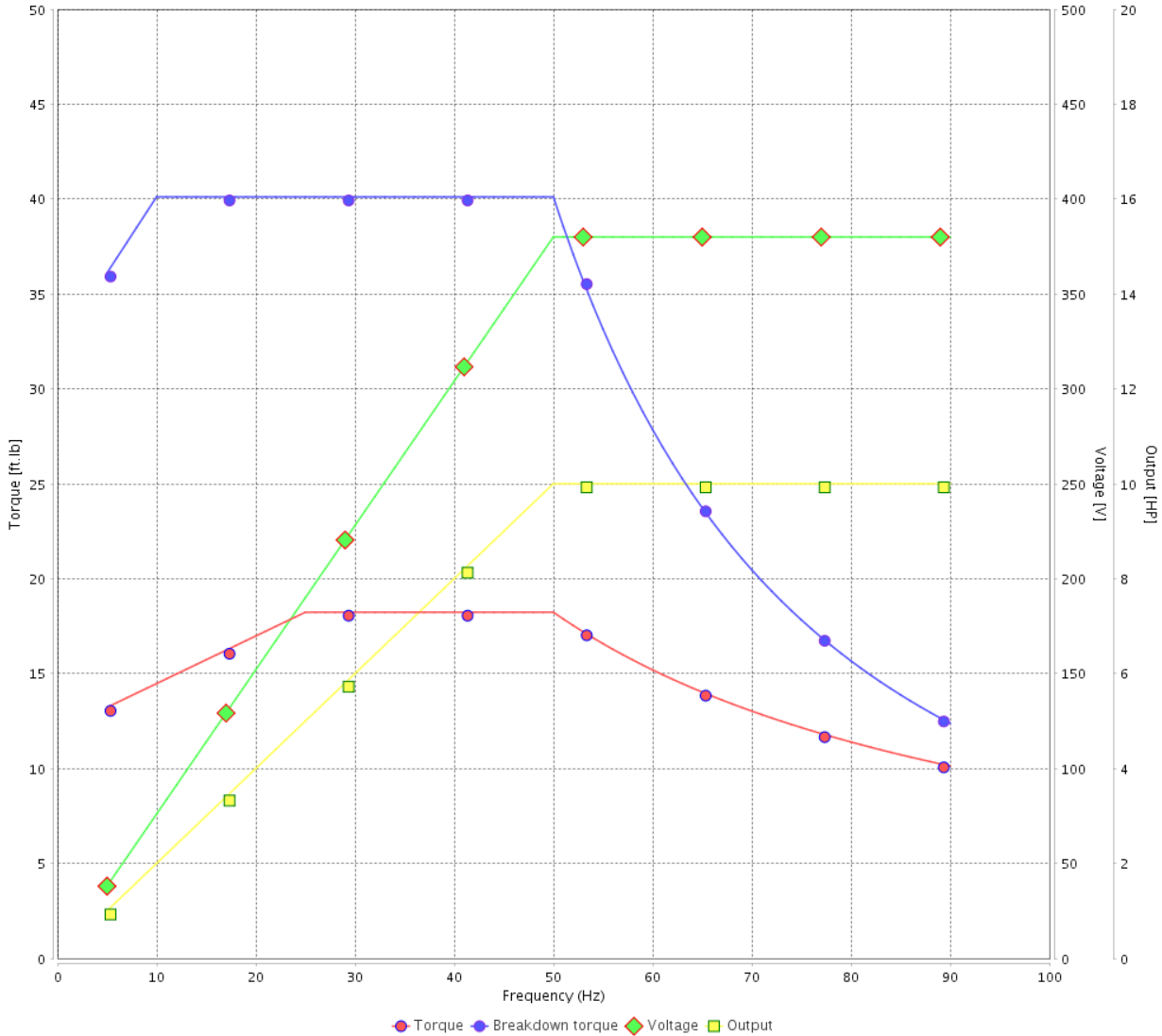
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11431348

Catalog # : 01036ST3QIE215T-W22

VFD OPERATION CURVE



Performance : 380 V 50 Hz 2P IE2

Rated current : 14.1 A
 LRC : 5.6
 Rated torque : 18.2 ft.lb
 Locked rotor torque : 170 %
 Breakdown torque : 220 %
 Rated speed : 2880 rpm

Moment of inertia (J) : 0.6362 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 34 / 36	Revision
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Date	12/04/2022			

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

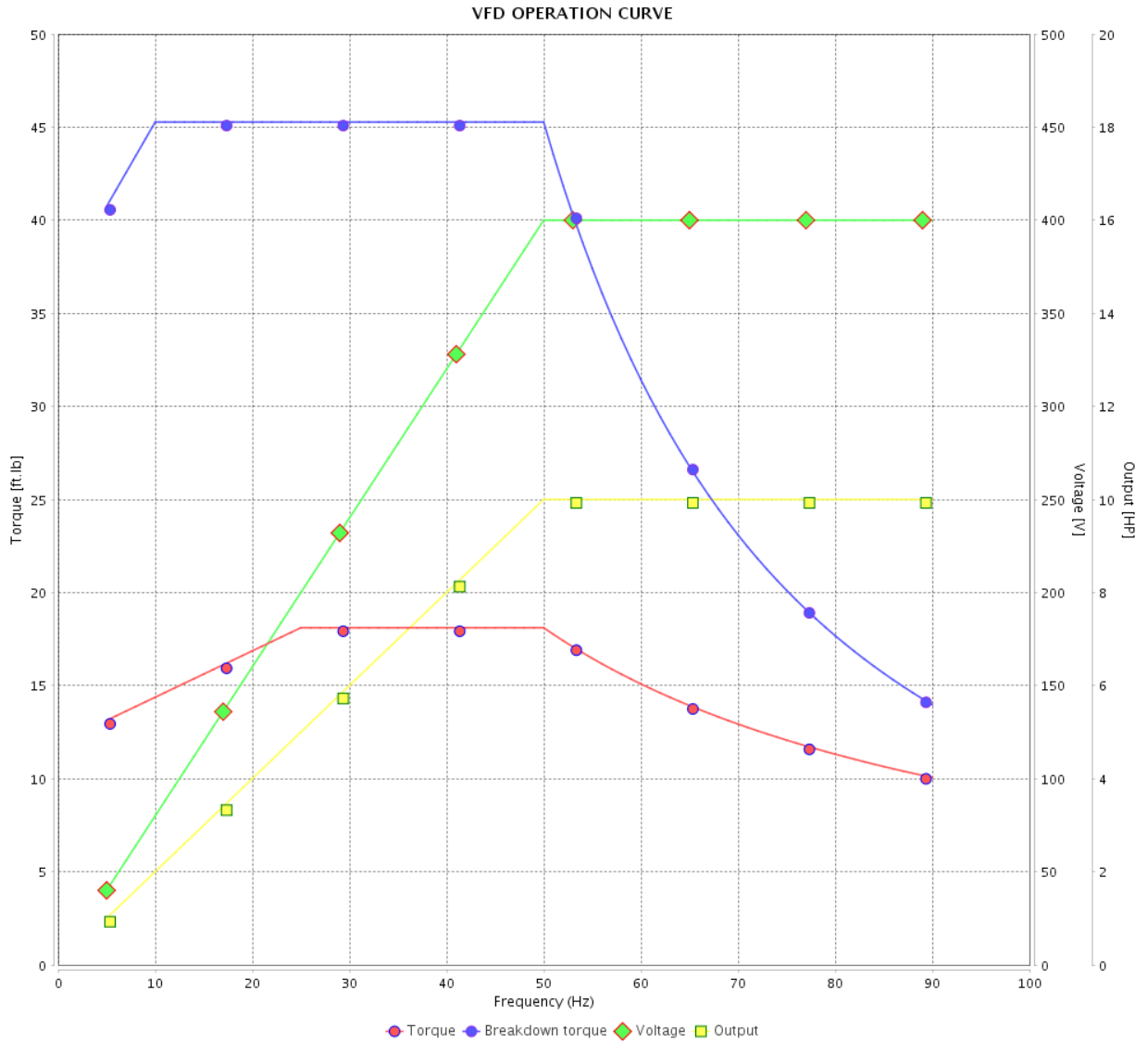


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11431348

Catalog # : 01036ST3QIE215T-W22



Performance : 400 V 50 Hz 2P IE2

Rated current : 13.6 A
 LRC : 6.4
 Rated torque : 18.1 ft.lb
 Locked rotor torque : 190 %
 Breakdown torque : 250 %
 Rated speed : 2900 rpm

Moment of inertia (J) : 0.6362 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		35 / 36		
Date		12/04/2022		

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

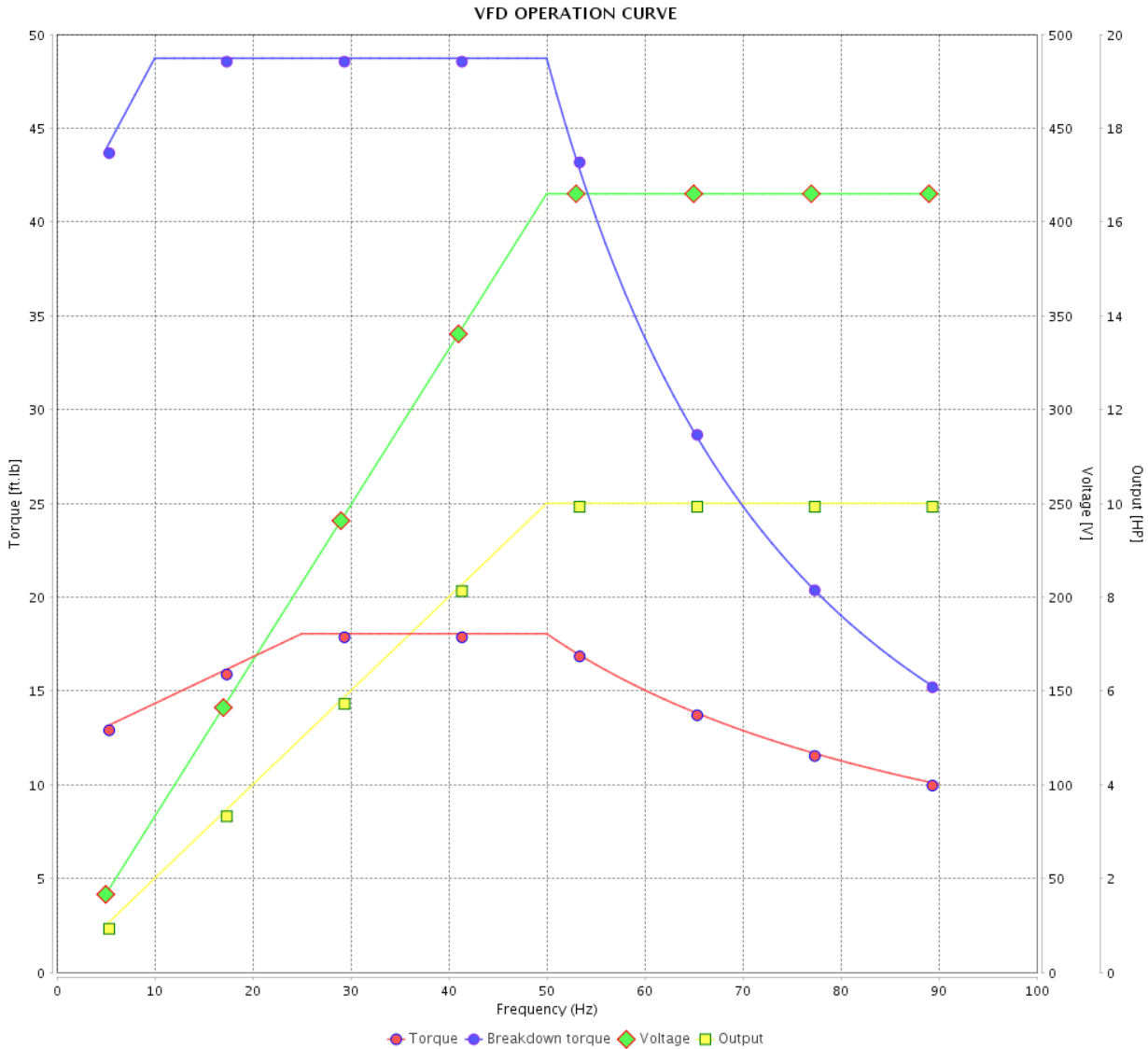


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11431348

Catalog # : 01036ST3QIE215T-W22



Performance : 415 V 50 Hz 2P IE2

Rated current : 13.1 A
 LRC : 6.9
 Rated torque : 18.0 ft.lb
 Locked rotor torque : 210 %
 Breakdown torque : 270 %
 Rated speed : 2910 rpm

Moment of inertia (J) : 0.6362 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : B

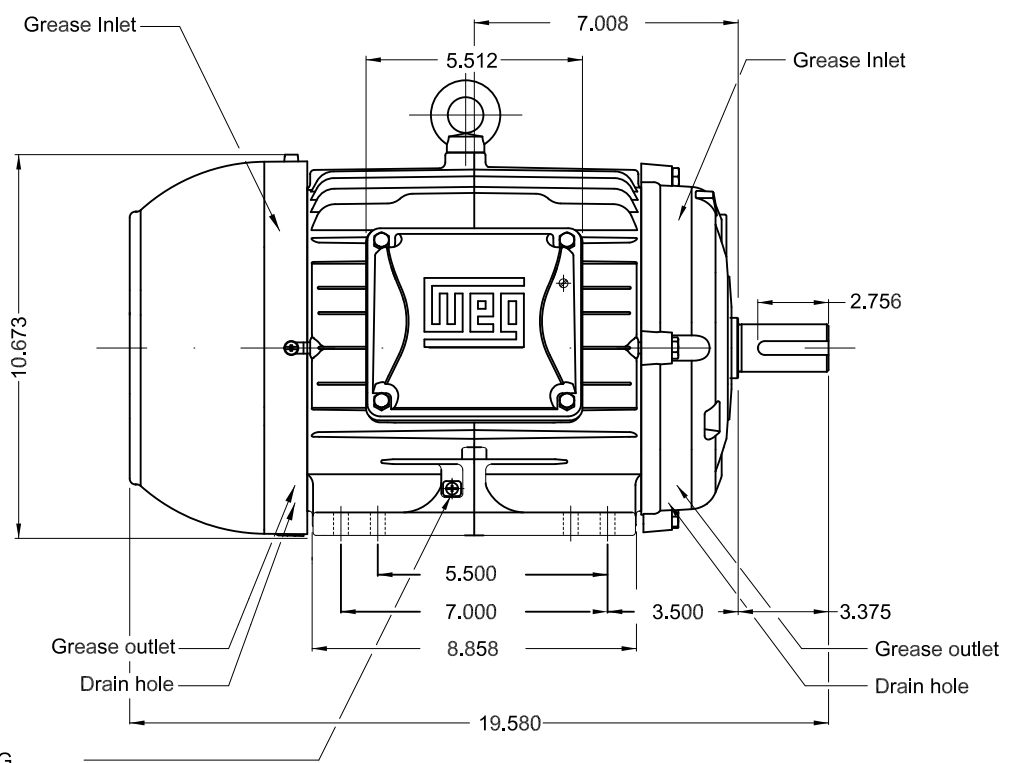
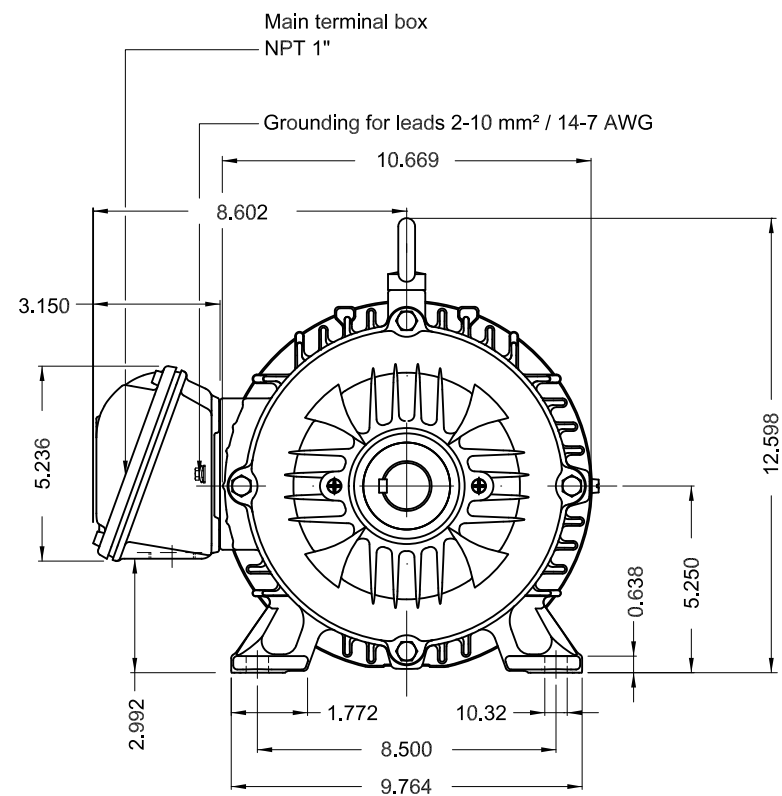
Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page	Revision
Checked by				
Date				
			36 / 36	

1 2 3 4 5 6

A

B

C

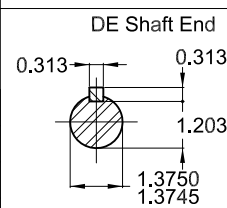


Grounding for leads 2-10 mm² / 14-7 AWG

D

E

Color RAL 5009
 Painting plan 202E
 Mounting NEMA F-1
 Mounting B3R(D)



10 HP 02 Poles 60 Hz

A

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	PIRWBUSER	THREE PH. MOTOR IEEE 841 W22 PREM. EFF.					
CHECKED		FRAME 213/5T IP55 TEFC					
RELEASED							
REL DT.	WMO	Jaragua do Sul	Product Engineering	SHEET	1 / 1		

PREVIEW
 WDD



Dimensions in inches

XME A3

MADE IN BRAZIL
11431348



NEMA
Premium



Class I, Div 2, Gr A, B, C and D - T3
Class I, Zone 2, IIC - T3
Class II, Div 2, Gr F and G - T4
For use on PWM: Gr. A, B, C, D and F,
VT 1000:1, CT 20:1, 1.00SF - T3A

MODEL 01036ST3QIE215T-W22

Inverter Duty Motor
Severe Duty

IEEE
841-2009



FOR SAFE AREA
Mod. TE1BFOXON
CC029A

PH3 60Hz Fr. 213/5T 1000m.a.s.l. IP55 TEFC 167lb

V 460

A 11.6

HP 10

kW 7.5

SF 1.25

SFA 14.5

RPM 3520

PF 0.90

AMB 40°C

INS cl. F DT80K

NEMA NOM EFF 90.2%

DUTY CONT.

DES B Code H

GUARANT. EFF 88.5%

