

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase Product code : 16686921  
Catalog # : 01018ST3QAP215T-W22

Frame : 213/5T	Cooling method : IC411 - TEFC
Insulation class : F	Mounting : W-8
Duty cycle : Cont.(S1)	Rotation <sup>1</sup> : Both (CW and CCW)
Ambient temperature : -20°C to +40°C	Starting method : Direct On Line
Altitude : 1000 m.a.s.l.	Approx. weight <sup>2</sup> : 191 lb
Protection degree : IP56	Moment of inertia (J) : 1.51 sq.ft.lb
Design : B	

Output [HP]	10	7.5	7.5	7.5	10	10	10
Poles	4	4	4	4	4	4	4
Frequency [Hz]	60	50	50	50	50	50	50
Rated voltage [V]	460	380	400	415	380	400	415
Rated current [A]	12.4	11.2	11.0	10.9	15.0	14.2	13.8
L. R. Amperes [A]	79.4	75.0	78.1	81.7	76.5	79.5	82.8
LRC [A]	6.4x(Code H)	6.7x(Code H)	7.1x(Code J)	7.5x(Code J)	5.1x(Code F)	5.6x(Code F)	6.0x(Code G)
No load current [A]	5.65	5.60	6.00	6.35	5.60	6.00	6.35
Rated speed [RPM]	1765	1465	1470	1470	1450	1455	1460
Slip [%]	1.94	2.33	2.00	2.00	3.33	3.00	2.67
Rated torque [ft.lb]	29.8	26.9	26.8	26.8	36.2	36.1	36.0
Locked rotor torque [%]	200	200	240	260	150	180	190
Breakdown torque [%]	295	300	340	360	220	250	270
Service factor	1.15	1.15	1.15	1.15	1.15	1.15	1.15
Temperature rise	80 K	80 K	80 K	80 K	80 K	80 K	80 K
Locked rotor time	30s (cold) 17s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)
Noise level <sup>2</sup>	58.0 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%	91.0	90.0	89.2	88.7	90.3	90.3
	75%	91.7	90.0	89.9	89.8	90.2	90.2
	100%	91.7	89.8	90.1	90.3	88.5	89.5
Power Factor	25%						
	50%	0.66	0.62	0.58	0.55	0.73	0.69
	75%	0.77	0.76	0.73	0.70	0.82	0.80
	100%	0.83	0.83	0.80	0.78	0.86	0.85

Losses at normative operating points (speed;torque), in percentage of rated output power

Losses (%)	P1 (0,9;1,0)	8.8	8.8	8.8	8.8	8.8	8.8
	P2 (0,5;1,0)	7.3	7.3	7.3	7.3	7.3	7.3
	P3 (0,25;1,0)	7.0	7.0	7.0	7.0	7.0	7.0
	P4 (0,9;0,5)	4.6	4.6	4.6	4.6	4.6	4.6
	P5 (0,5;0,5)	3.2	3.2	3.2	3.2	3.2	3.2
	P6 (0,5;0,25)	2.3	2.3	2.3	2.3	2.3	2.3
	P7 (0,25;0,25)	1.6	1.6	1.6	1.6	1.6	1.6

Bearing type	: NU-308 C3	6207 C3	Foundation loads	
Sealing	: Inpro/Seal	Inpro/Seal	Max. traction	: 452 lb
Lubrication interval	: 16000 h	20000 h	Max. compression	: 643 lb
Lubricant amount	: 11 g	7 g		
Lubricant type	: Mobil Polyrex EM			

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## Three Phase Induction Motor - Squirrel Cage



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Notes

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# TORQUE AND CURRENT VS SPEED CURVE



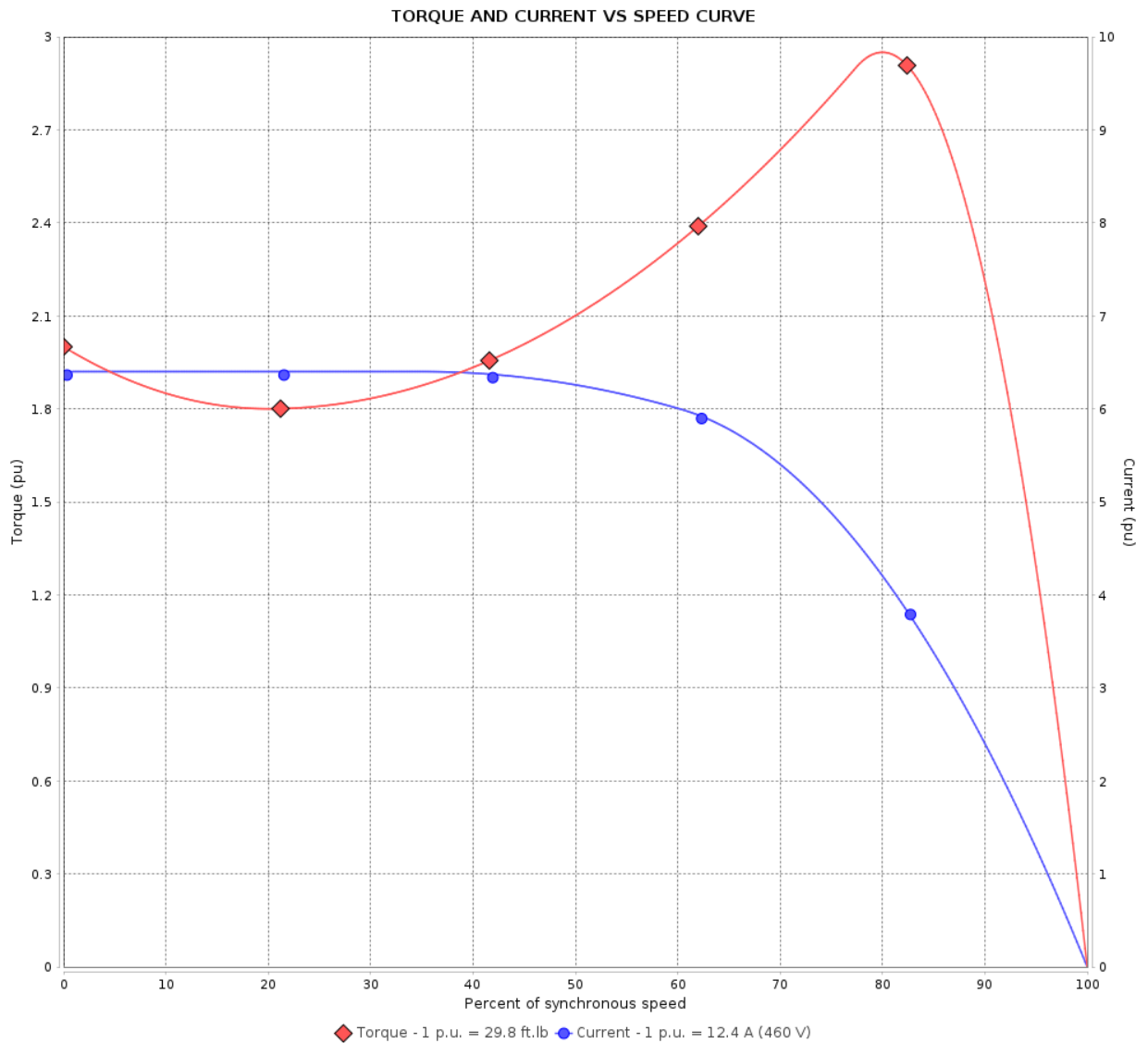
## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase

Product code : 16686921

Catalog # : 01018ST3QAP215T-W22



Performance : 460 V 60 Hz 4P

Rated current	: 12.4 A	Moment of inertia (J)	: 1.51 sq.ft.lb
LRC	: 6.4	Duty cycle	: Cont.(S1)
Rated torque	: 29.8 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 295 %	Temperature rise	: 80 K
Rated speed	: 1765 rpm	Design	: B

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

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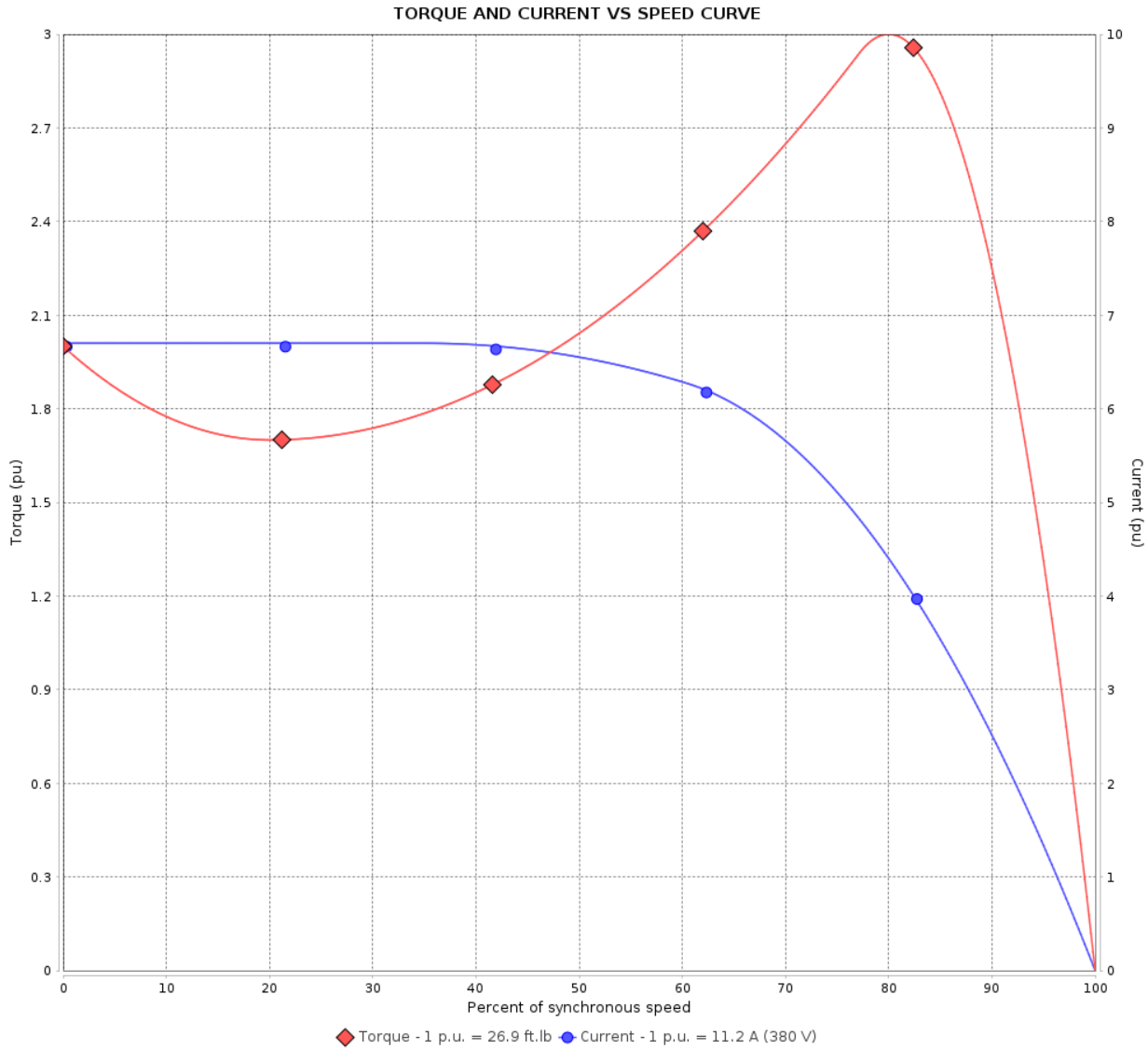


Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency  
Three-Phase

Product code : 16686921

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Performance : 380 V 50 Hz 4P IE3

Rated current	: 11.2 A	Moment of inertia (J)	: 1.51 sq.ft.lb
LRC	: 6.7	Duty cycle	: Cont.(S1)
Rated torque	: 26.9 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1465 rpm	Design	: B

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

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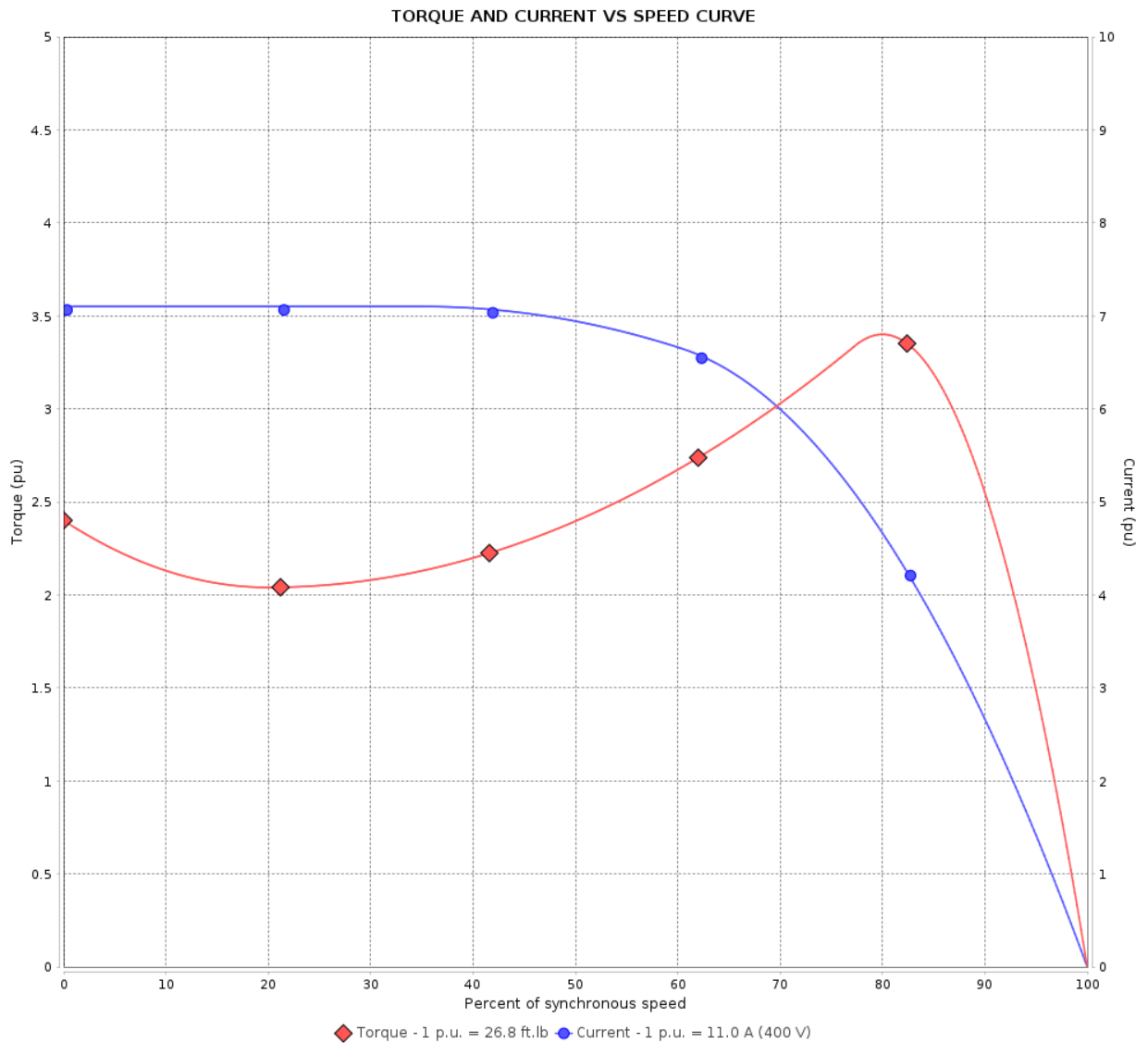
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Customer :

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Product code : 16686921

Catalog # : 01018ST3QAP215T-W22



Performance : 400 V 50 Hz 4P IE3

Rated current	: 11.0 A	Moment of inertia (J)	: 1.51 sq.ft.lb
LRC	: 7.1	Duty cycle	: Cont.(S1)
Rated torque	: 26.8 ft.lb	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.15
Breakdown torque	: 340 %	Temperature rise	: 80 K
Rated speed	: 1470 rpm	Design	: B

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

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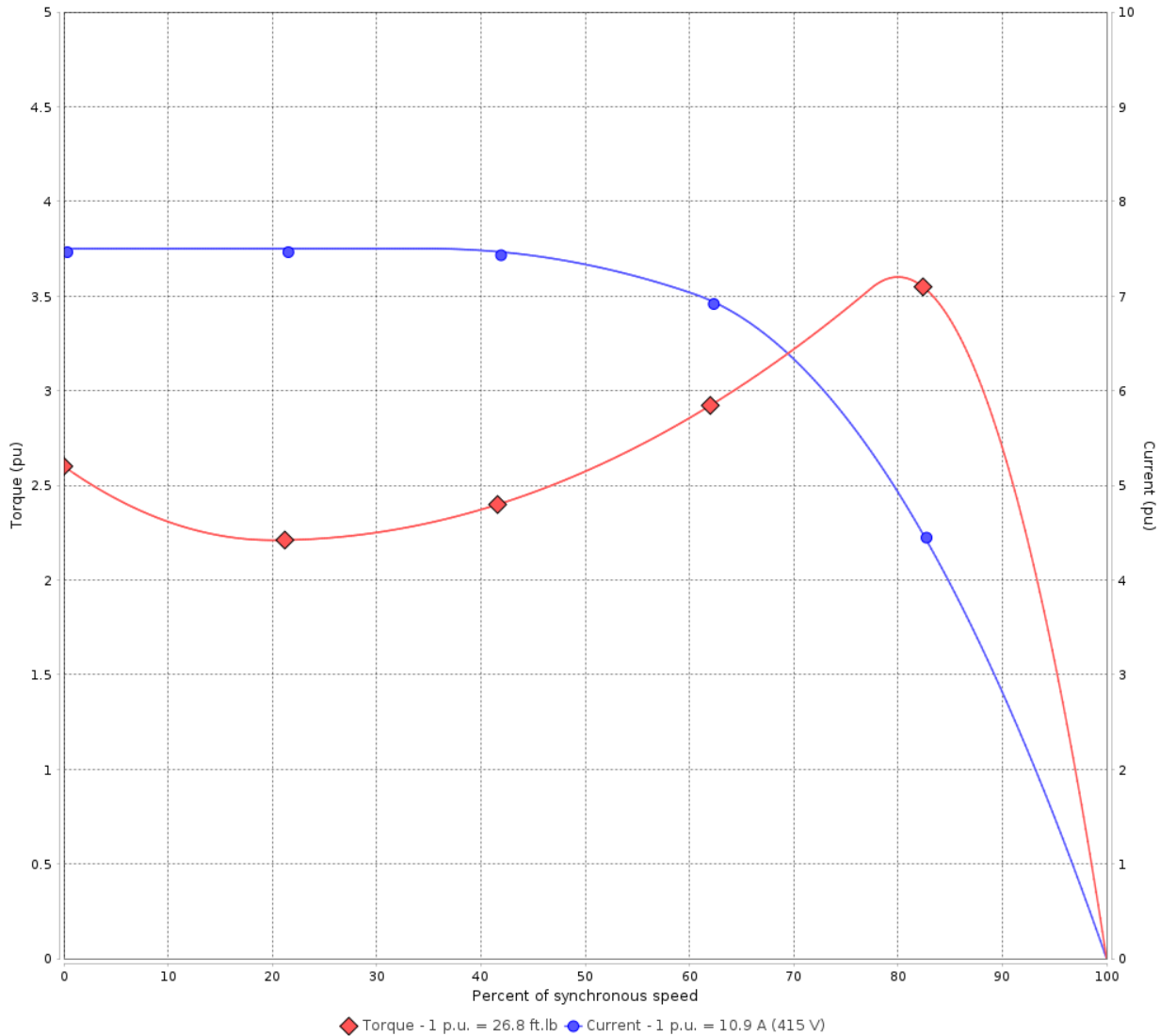
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TORQUE AND CURRENT VS SPEED CURVE



Performance : 415 V 50 Hz 4P IE3

Rated current	: 10.9 A	Moment of inertia (J)	: 1.51 sq.ft.lb
LRC	: 7.5	Duty cycle	: Cont.(S1)
Rated torque	: 26.8 ft.lb	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.15
Breakdown torque	: 360 %	Temperature rise	: 80 K
Rated speed	: 1470 rpm	Design	: B

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

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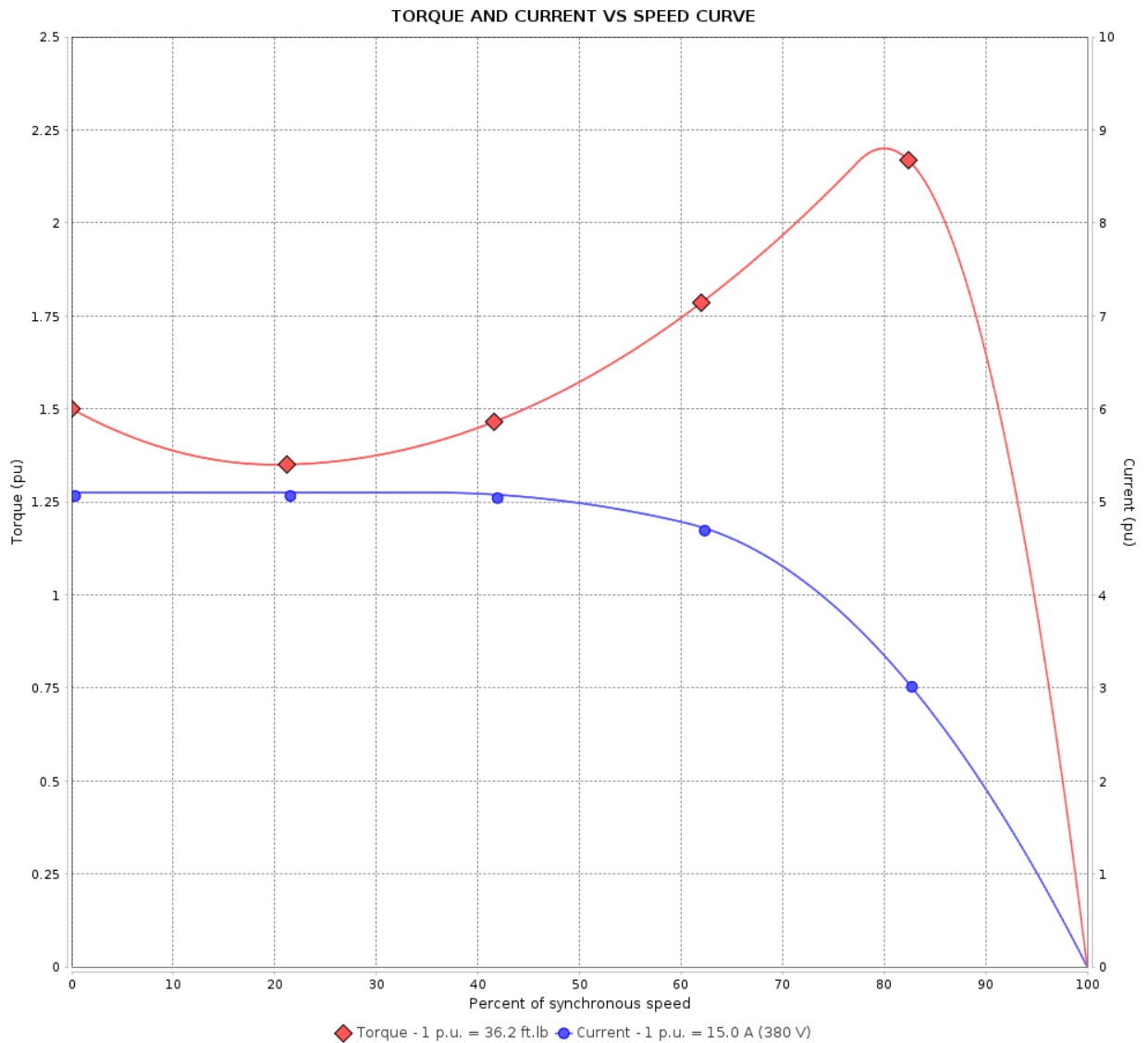
## Three Phase Induction Motor - Squirrel Cage

Customer :

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Performance : 380 V 50 Hz 4P IE1

Rated current	: 15.0 A	Moment of inertia (J)	: 1.51 sq.ft.lb
LRC	: 5.1	Duty cycle	: Cont.(S1)
Rated torque	: 36.2 ft.lb	Insulation class	: F
Locked rotor torque	: 150 %	Service factor	: 1.15
Breakdown torque	: 220 %	Temperature rise	: 80 K
Rated speed	: 1450 rpm	Design	: B

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

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# TORQUE AND CURRENT VS SPEED CURVE

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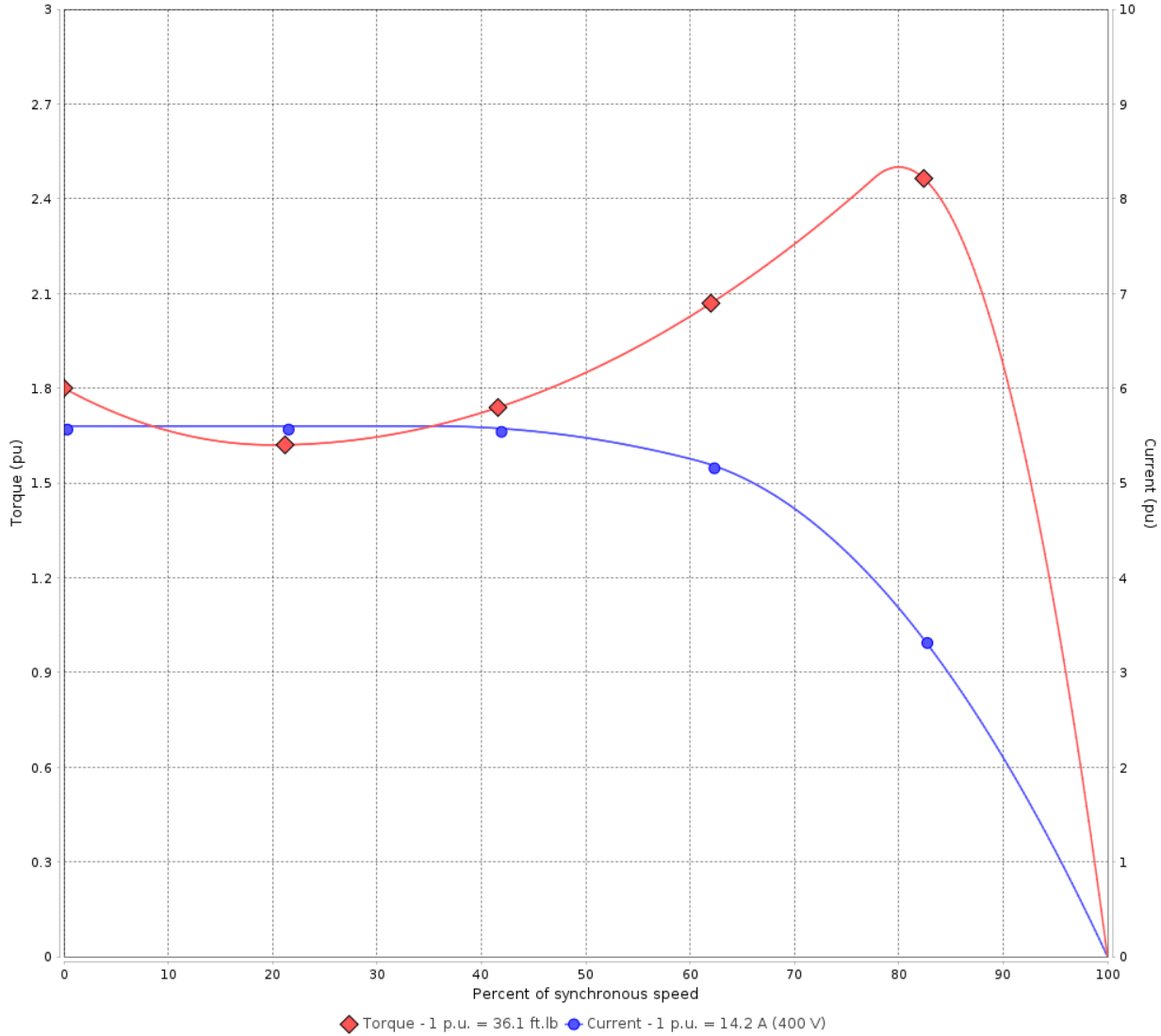
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TORQUE AND CURRENT VS SPEED CURVE



Performance : 400 V 50 Hz 4P IE2

Rated current	: 14.2 A	Moment of inertia (J)	: 1.51 sq.ft.lb
LRC	: 5.6	Duty cycle	: Cont.(S1)
Rated torque	: 36.1 ft.lb	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.15
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 1455 rpm	Design	: B

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

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# TORQUE AND CURRENT VS SPEED CURVE



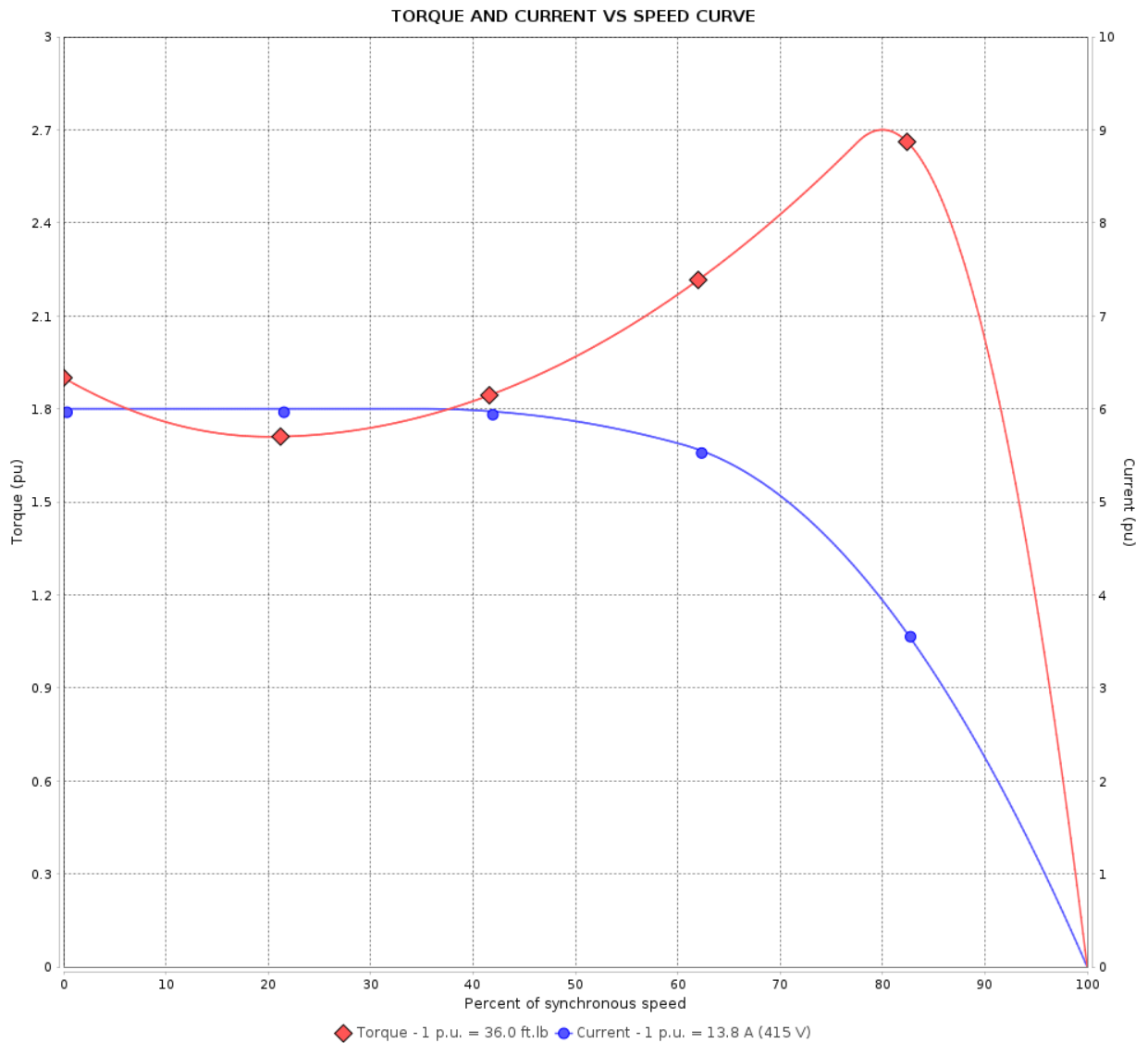
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Performance : 415 V 50 Hz 4P IE2

Rated current	: 13.8 A	Moment of inertia (J)	: 1.51 sq.ft.lb
LRC	: 6.0	Duty cycle	: Cont.(S1)
Rated torque	: 36.0 ft.lb	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.15
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 1460 rpm	Design	: B

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

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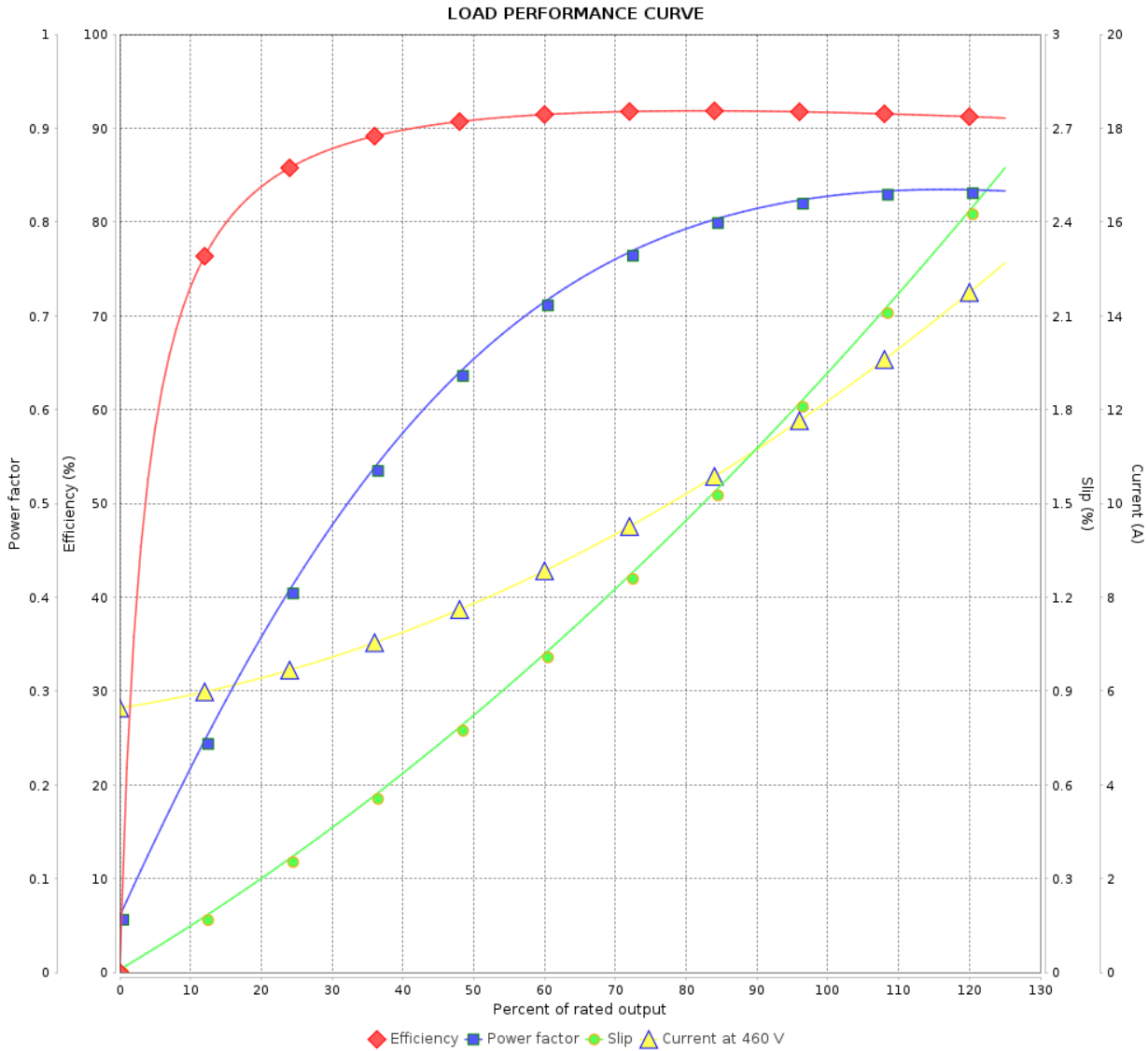


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Performance : 460 V 60 Hz 4P

Rated current : 12.4 A  
 LRC : 6.4  
 Rated torque : 29.8 ft.lb  
 Locked rotor torque : 200 %  
 Breakdown torque : 295 %  
 Rated speed : 1765 rpm

Moment of inertia (J) : 1.51 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

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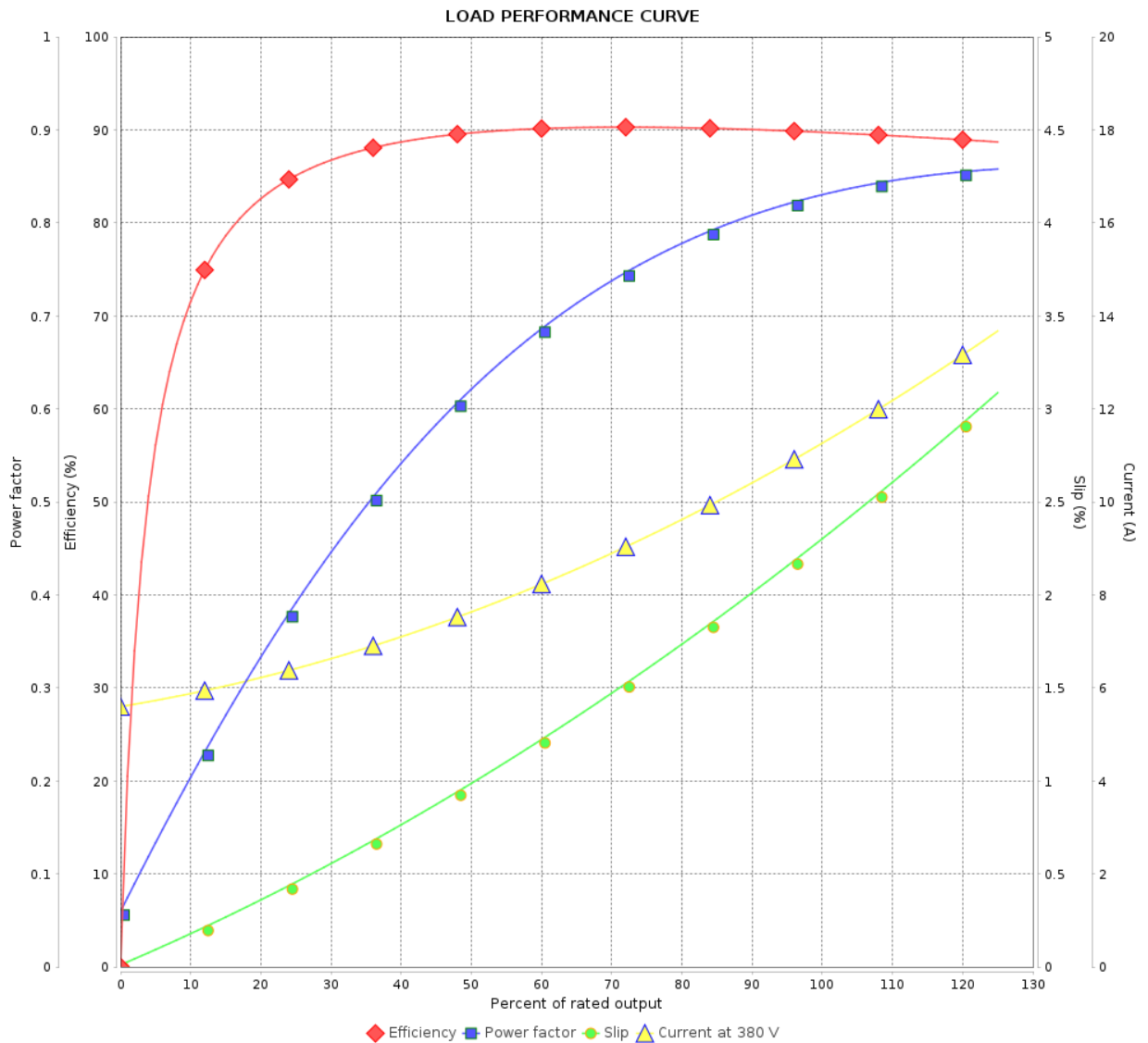


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Performance : 380 V 50 Hz 4P IE3

Rated current : 11.2 A  
 LRC : 6.7  
 Rated torque : 26.9 ft.lb  
 Locked rotor torque : 200 %  
 Breakdown torque : 300 %  
 Rated speed : 1465 rpm

Moment of inertia (J) : 1.51 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

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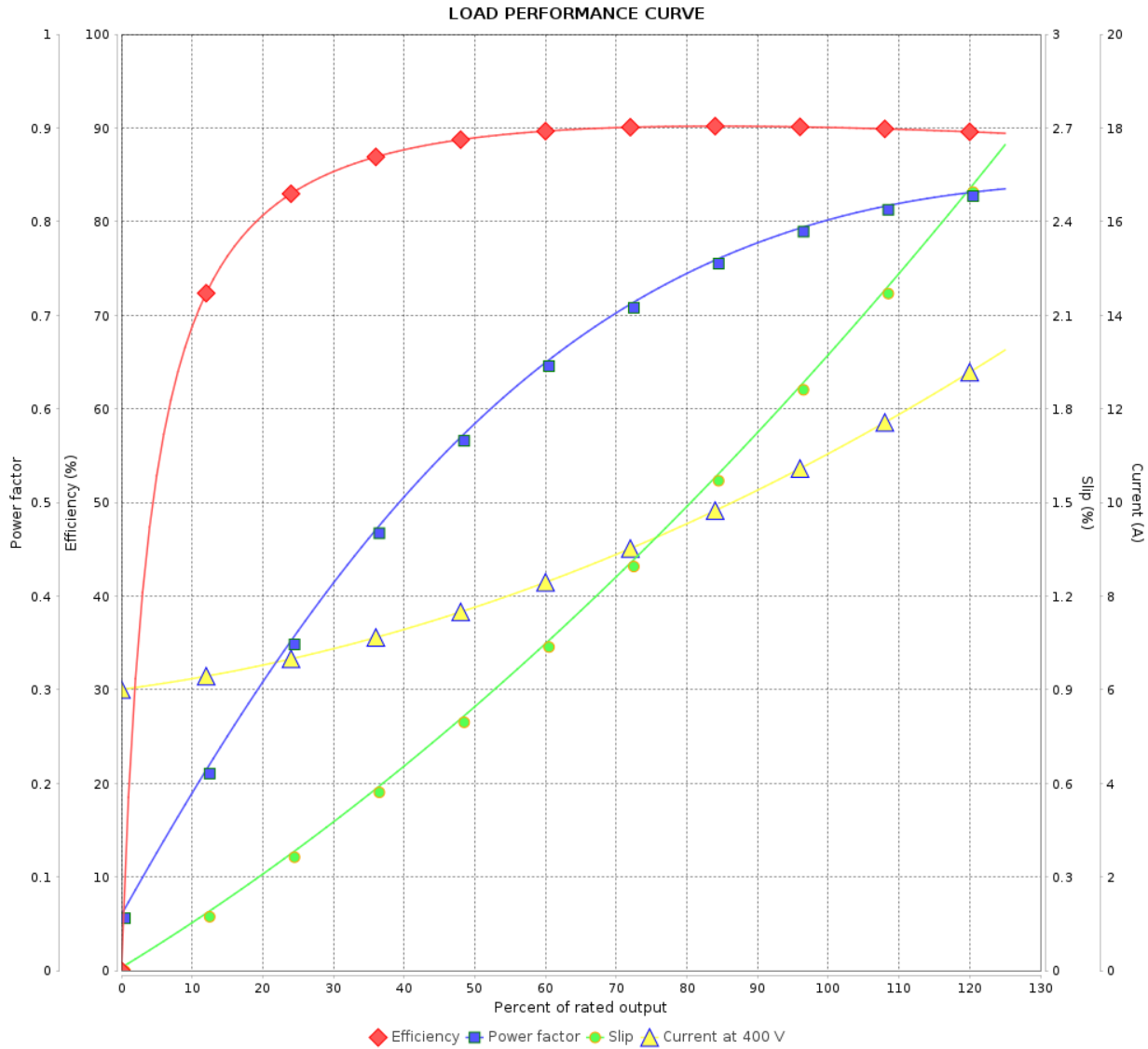


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Performance : 400 V 50 Hz 4P IE3

Rated current : 11.0 A  
 LRC : 7.1  
 Rated torque : 26.8 ft.lb  
 Locked rotor torque : 240 %  
 Breakdown torque : 340 %  
 Rated speed : 1470 rpm

Moment of inertia (J) : 1.51 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

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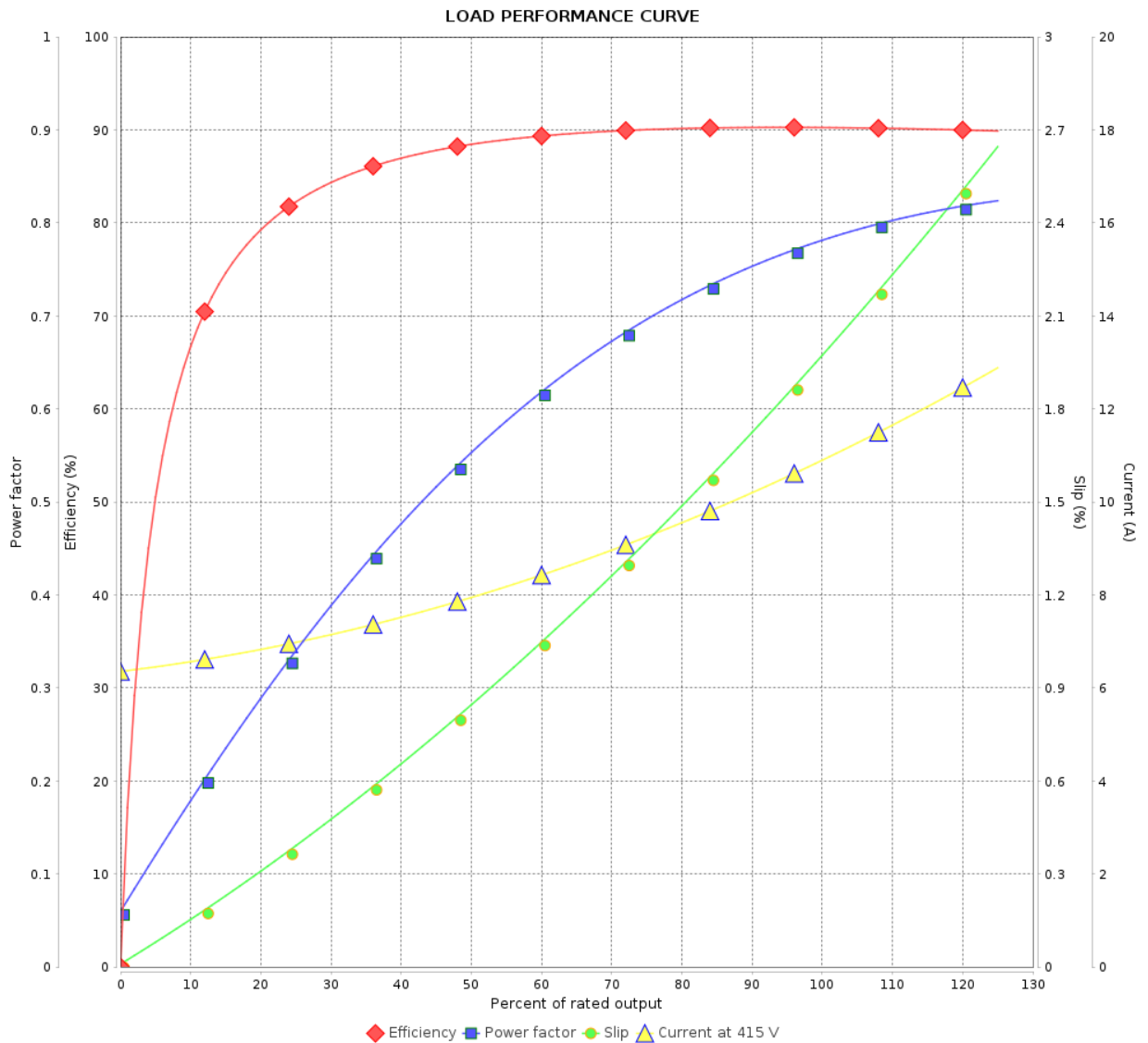


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Performance : 415 V 50 Hz 4P IE3

Rated current : 10.9 A  
 LRC : 7.5  
 Rated torque : 26.8 ft.lb  
 Locked rotor torque : 260 %  
 Breakdown torque : 360 %  
 Rated speed : 1470 rpm

Moment of inertia (J) : 1.51 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

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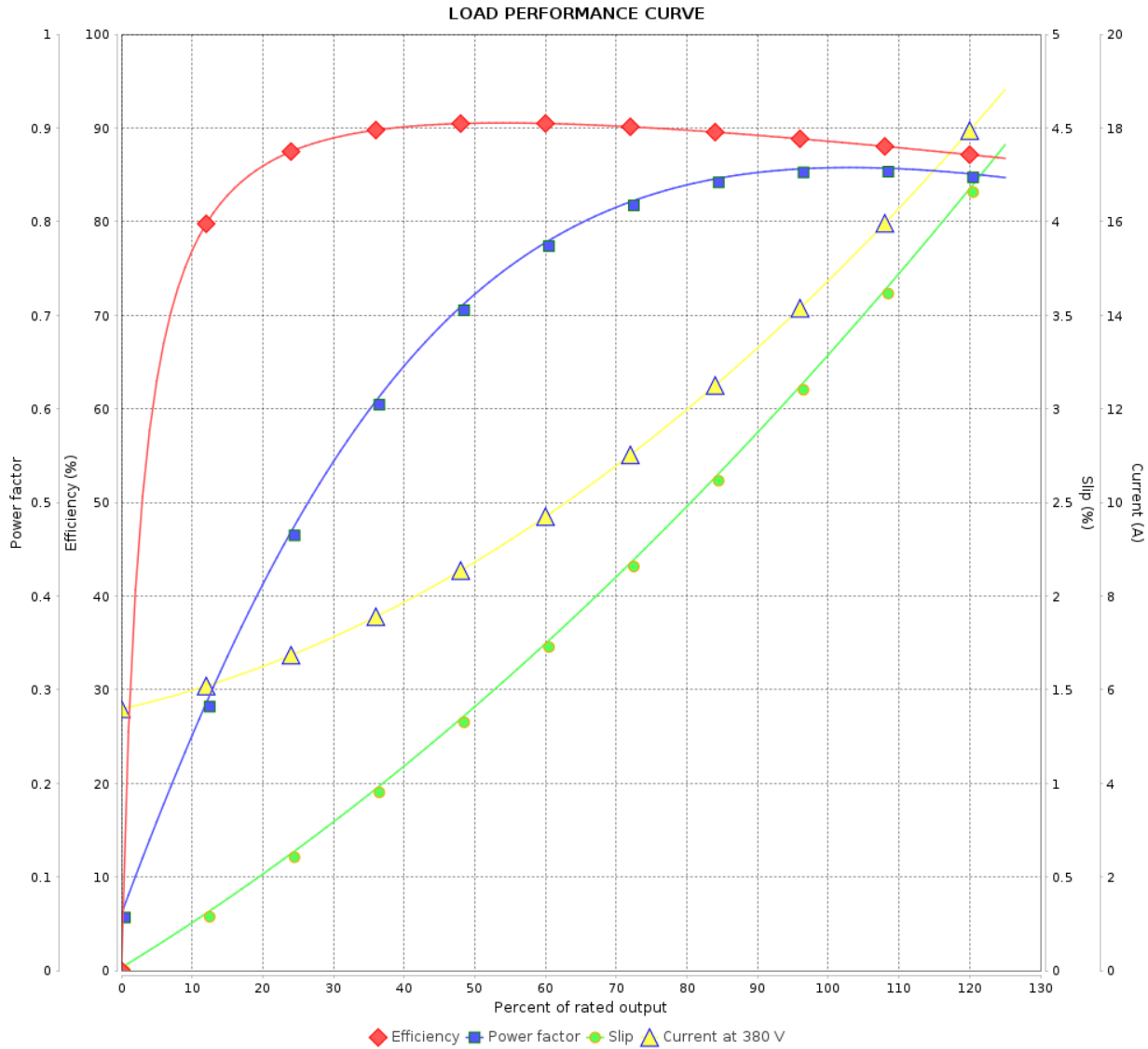


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Performance : 380 V 50 Hz 4P IE1

Rated current : 15.0 A  
 LRC : 5.1  
 Rated torque : 36.2 ft.lb  
 Locked rotor torque : 150 %  
 Breakdown torque : 220 %  
 Rated speed : 1450 rpm

Moment of inertia (J) : 1.51 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

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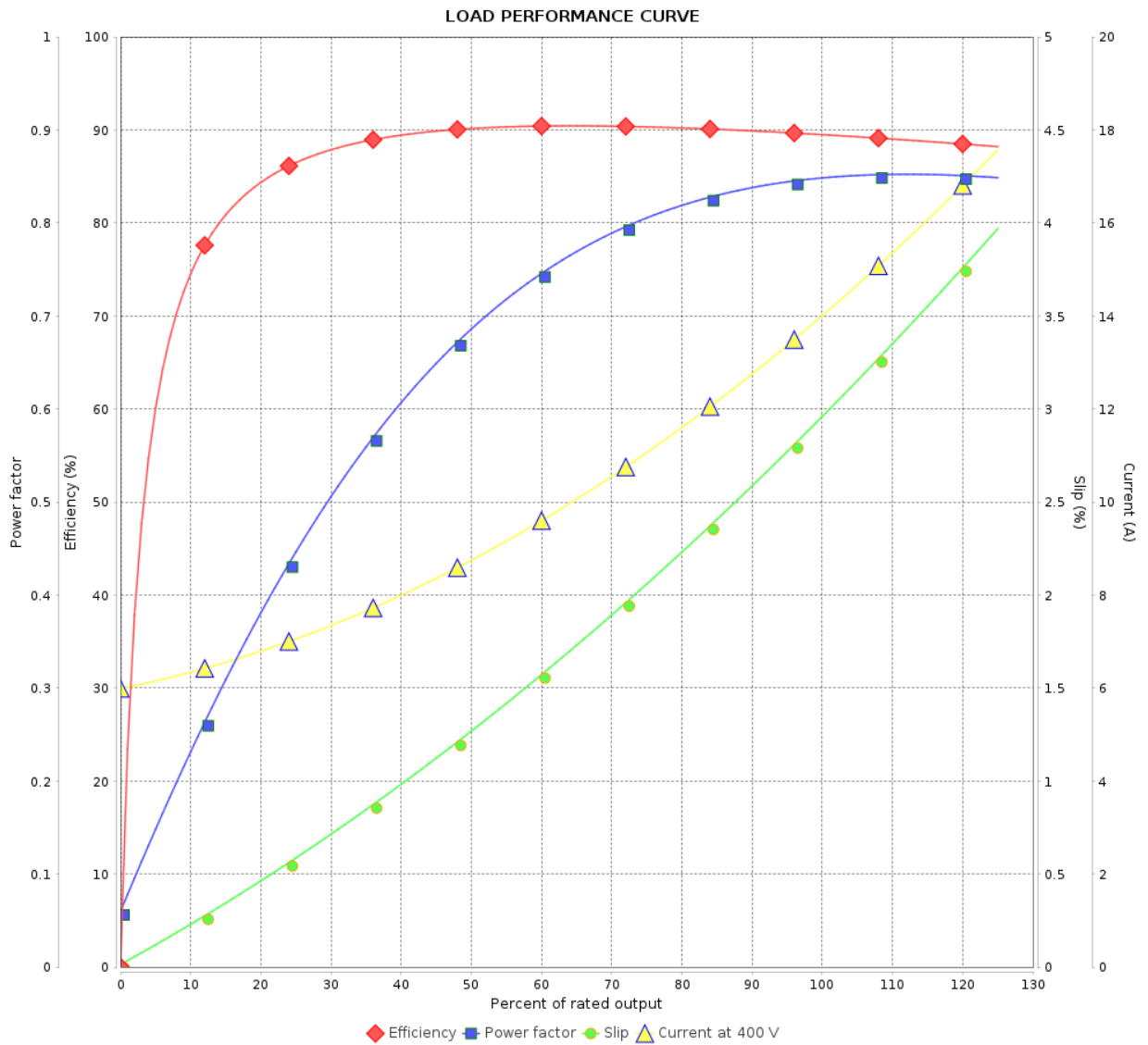


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Performance : 400 V 50 Hz 4P IE2

Rated current : 14.2 A  
 LRC : 5.6  
 Rated torque : 36.1 ft.lb  
 Locked rotor torque : 180 %  
 Breakdown torque : 250 %  
 Rated speed : 1455 rpm

Moment of inertia (J) : 1.51 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

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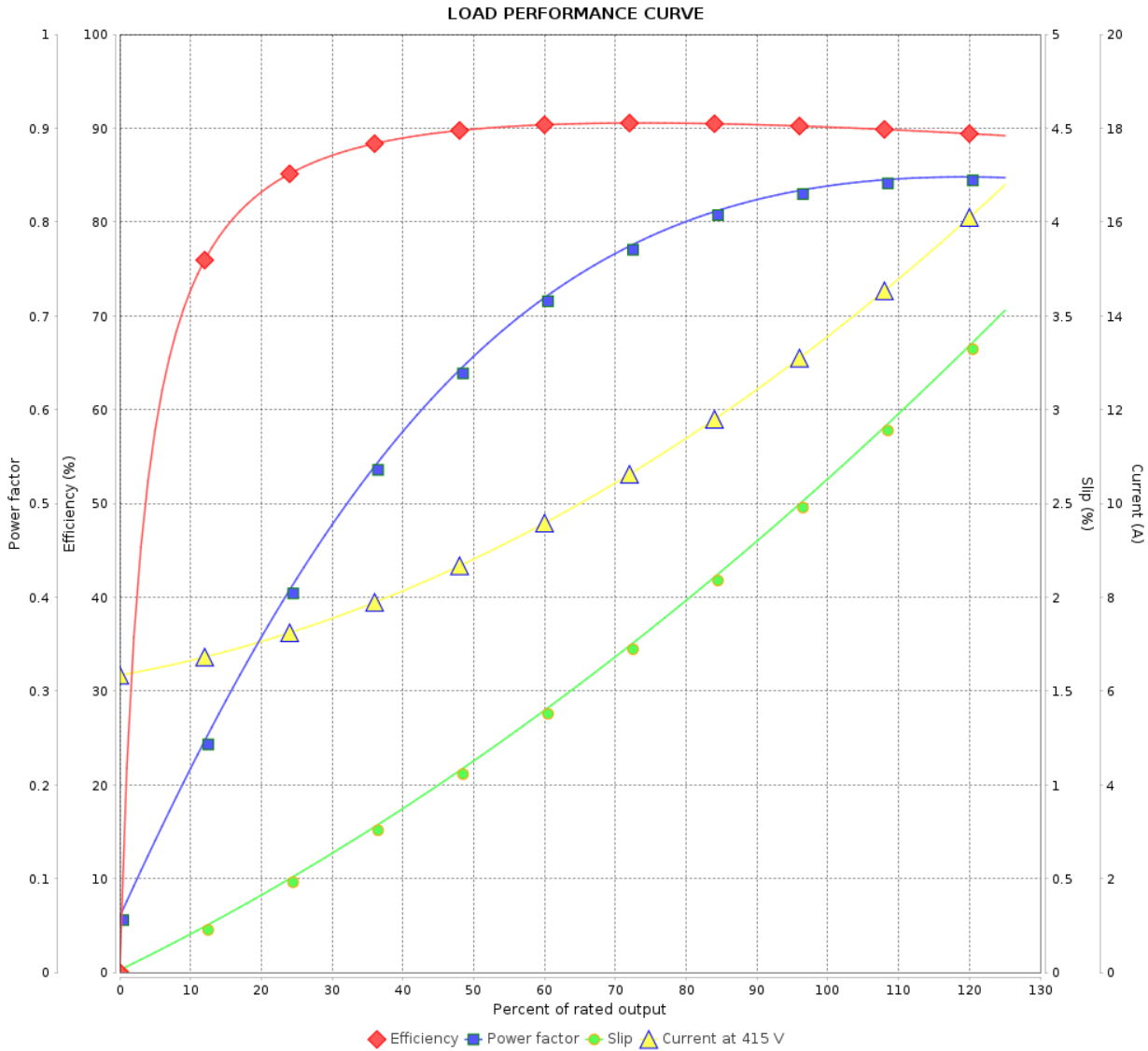


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Moment of inertia (J) : 1.51 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
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Rated torque : 29.8 ft.lb	Insulation class : F
Locked rotor torque : 200 %	Service factor : 1.15
Breakdown torque : 295 %	Temperature rise : 80 K
Rated speed : 1765 rpm	Design : B

Heating constant

Cooling constant

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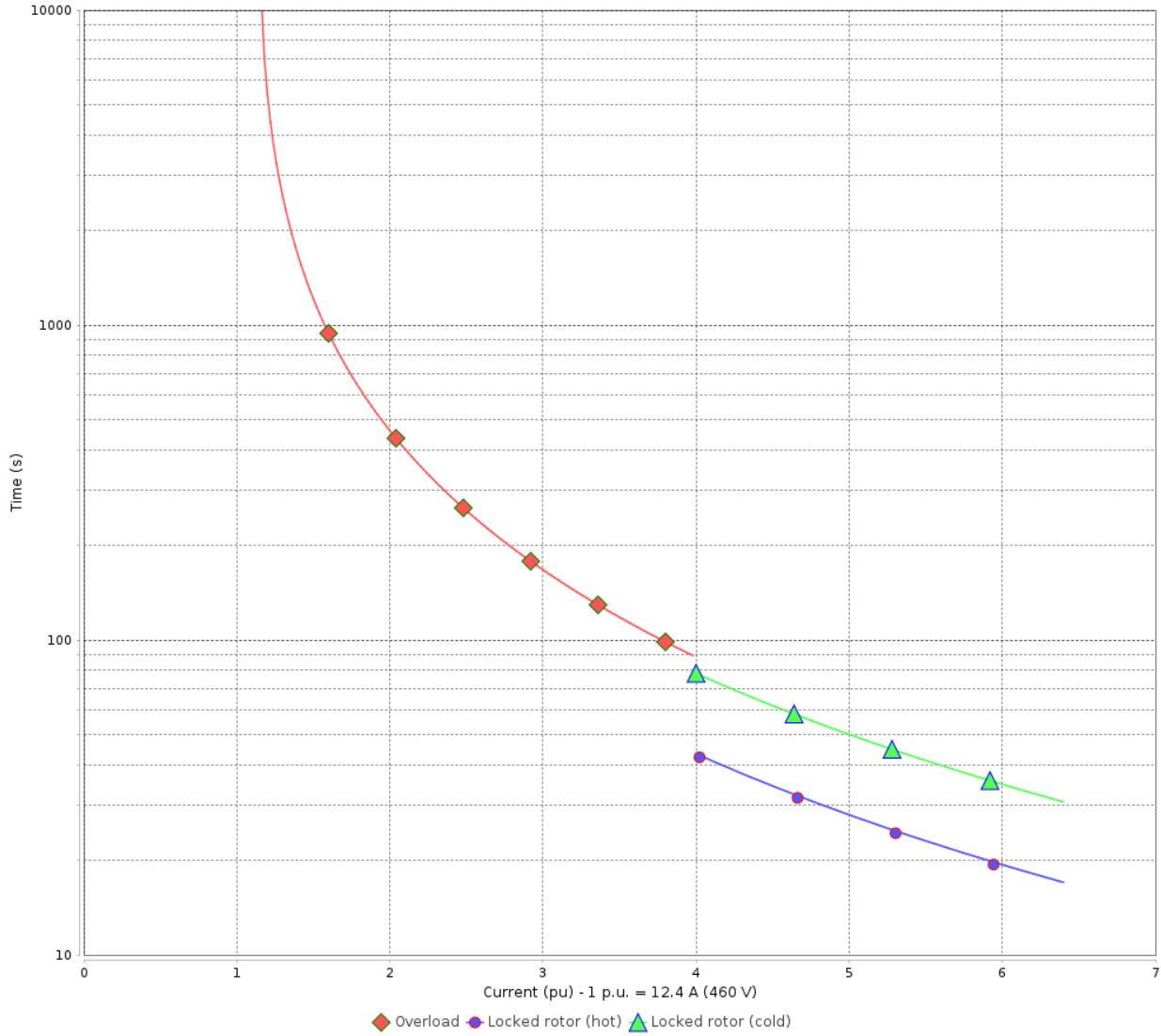
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Three Phase Induction Motor - Squirrel Cage



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THERMAL LIMIT CURVE



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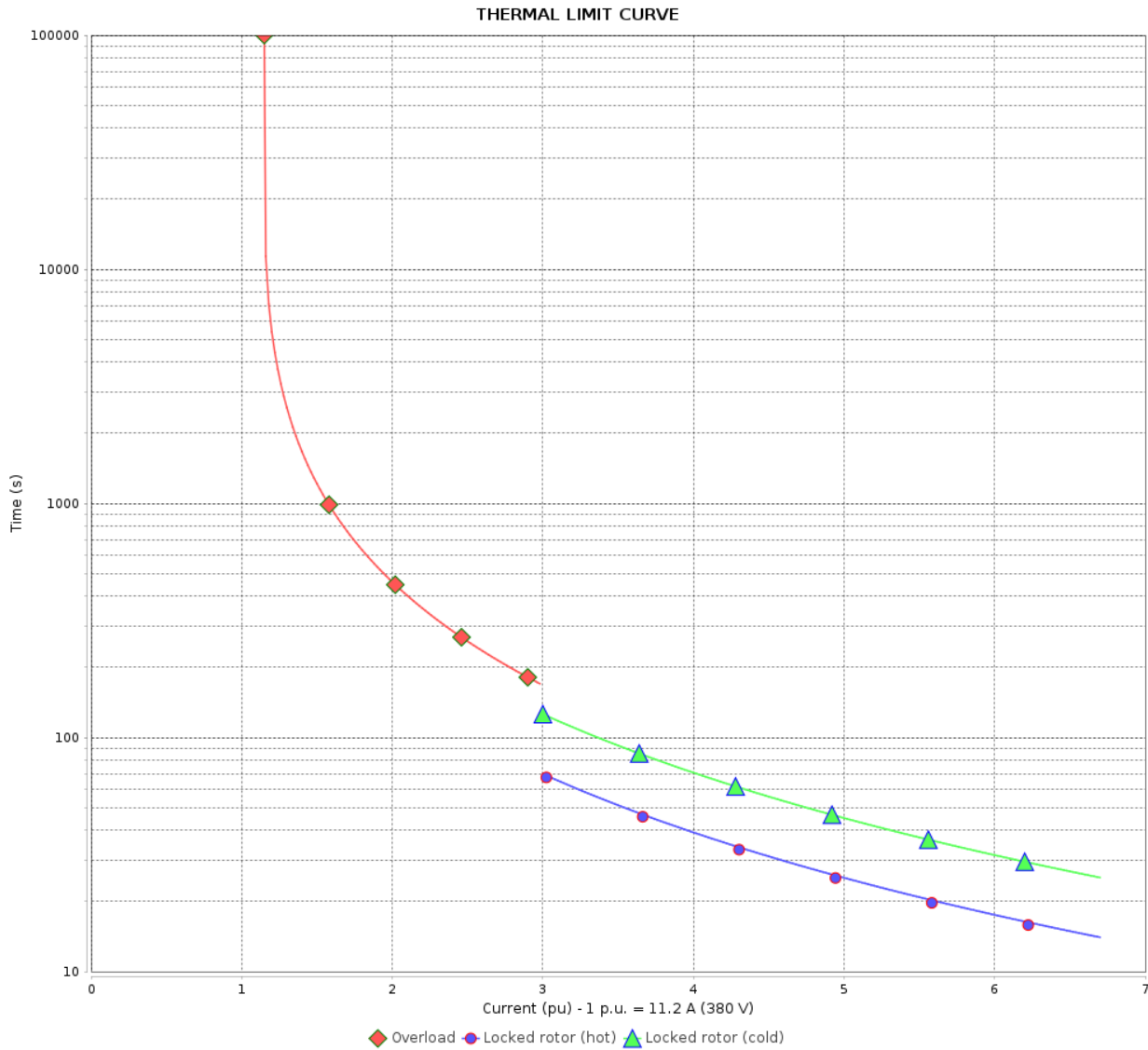
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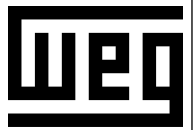


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Rated current : 11.0 A  
LRC : 7.1  
Rated torque : 26.8 ft.lb  
Locked rotor torque : 240 %  
Breakdown torque : 340 %  
Rated speed : 1470 rpm

Moment of inertia (J) : 1.51 sq.ft.lb  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.15  
Temperature rise : 80 K  
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Heating constant

Cooling constant

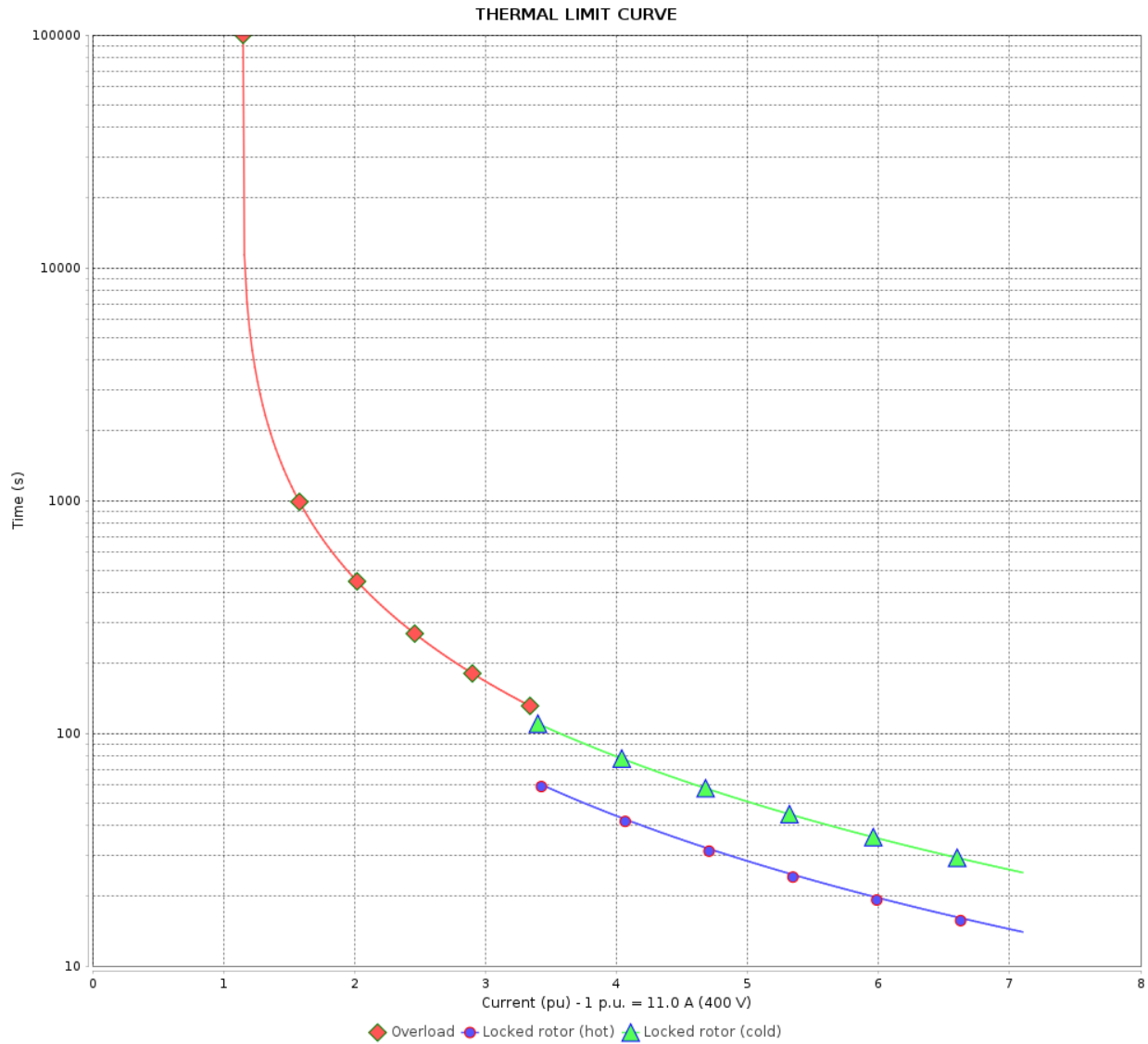
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Breakdown torque : 360 %	Temperature rise : 80 K
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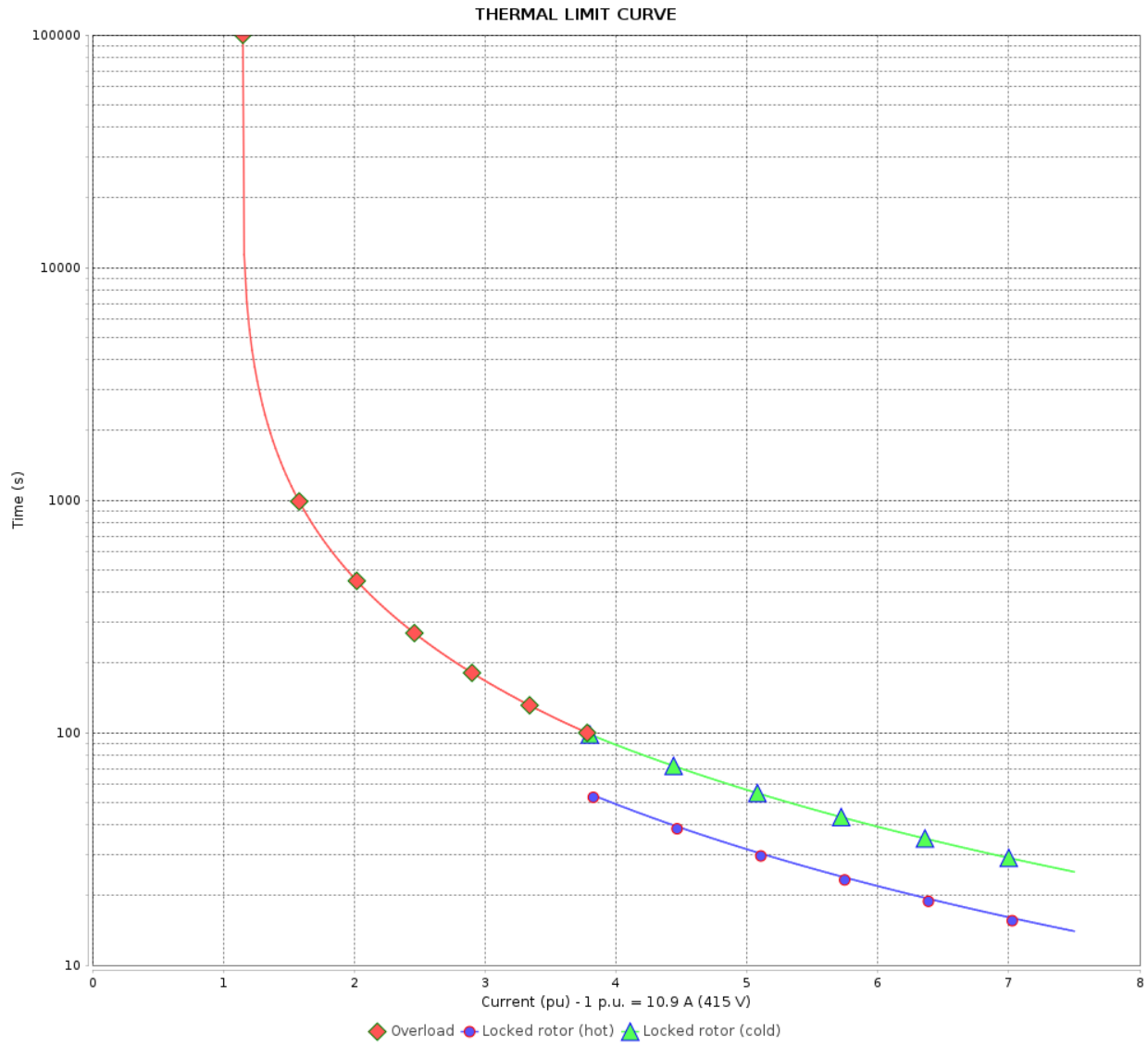
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Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase  
 Product code : 16686921  
 Catalog # : 01018ST3QAP215T-W22

Performance : 380 V 50 Hz 4P IE1

Rated current : 15.0 A	Moment of inertia (J) : 1.51 sq.ft.lb
LRC : 5.1	Duty cycle : Cont.(S1)
Rated torque : 36.2 ft.lb	Insulation class : F
Locked rotor torque : 150 %	Service factor : 1.15
Breakdown torque : 220 %	Temperature rise : 80 K
Rated speed : 1450 rpm	Design : B

Heating constant

Cooling constant

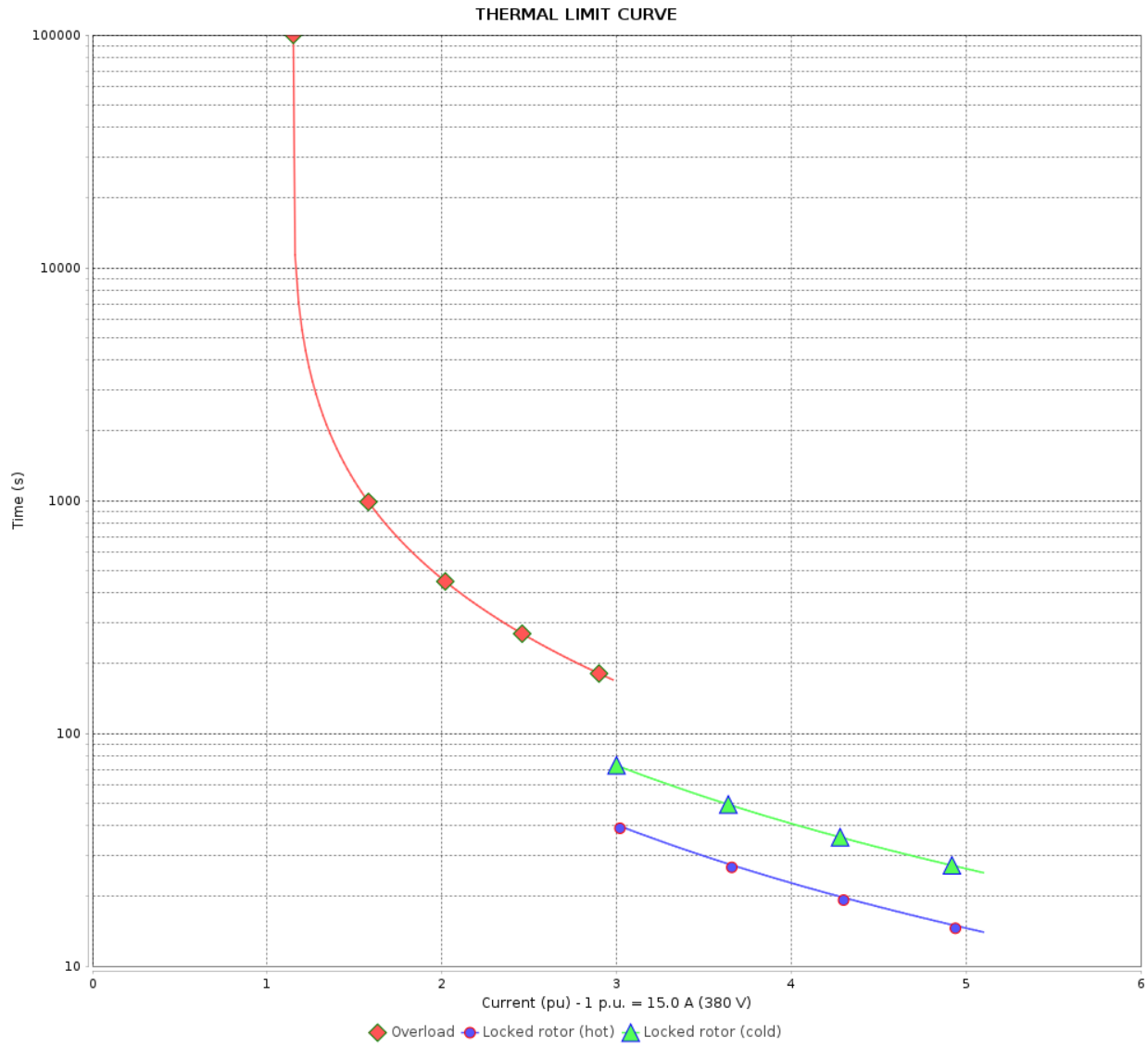
Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page	Revision
Checked by				
Date	04/10/2023			

# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_



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# THERMAL LIMIT CURVE



## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency  
Three-Phase

Product code : 16686921

Catalog # : 01018ST3QAP215T-W22

Performance : 400 V 50 Hz 4P IE2

Rated current : 14.2 A  
LRC : 5.6  
Rated torque : 36.1 ft.lb  
Locked rotor torque : 180 %  
Breakdown torque : 250 %  
Rated speed : 1455 rpm

Moment of inertia (J) : 1.51 sq.ft.lb  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.15  
Temperature rise : 80 K  
Design : B

Heating constant

Cooling constant

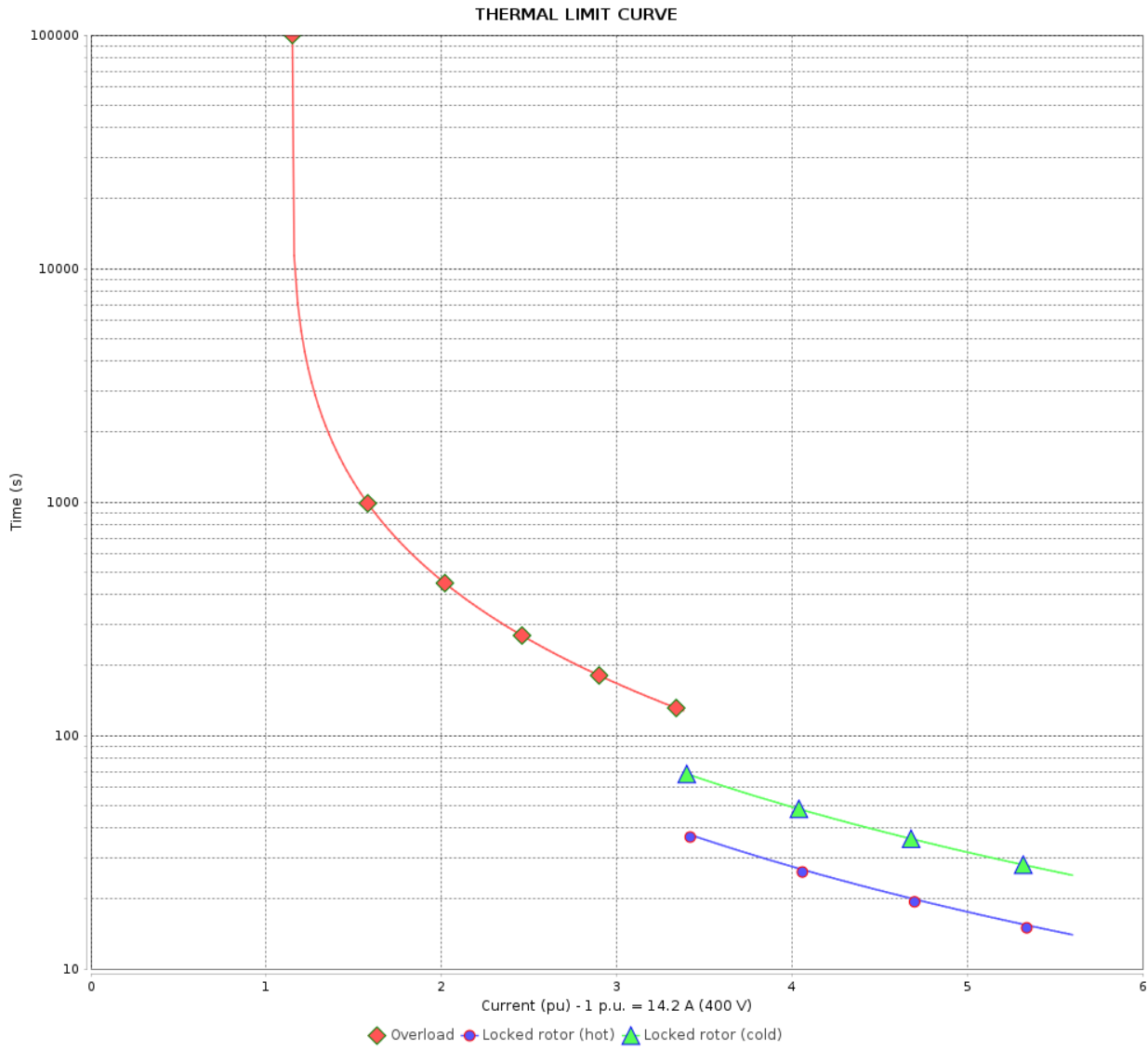
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Checked by			Page	Revision
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# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

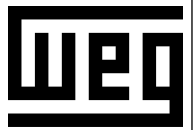


Customer : \_\_\_\_\_



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Performed by		Page		Revision
Checked by		28 / 37		
Date		04/10/2023		

# THERMAL LIMIT CURVE



## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase  
 Product code : 16686921  
 Catalog # : 01018ST3QAP215T-W22

Performance : 415 V 50 Hz 4P IE2

Rated current : 13.8 A	Moment of inertia (J) : 1.51 sq.ft.lb
LRC : 6.0	Duty cycle : Cont.(S1)
Rated torque : 36.0 ft.lb	Insulation class : F
Locked rotor torque : 190 %	Service factor : 1.15
Breakdown torque : 270 %	Temperature rise : 80 K
Rated speed : 1460 rpm	Design : B

Heating constant

Cooling constant

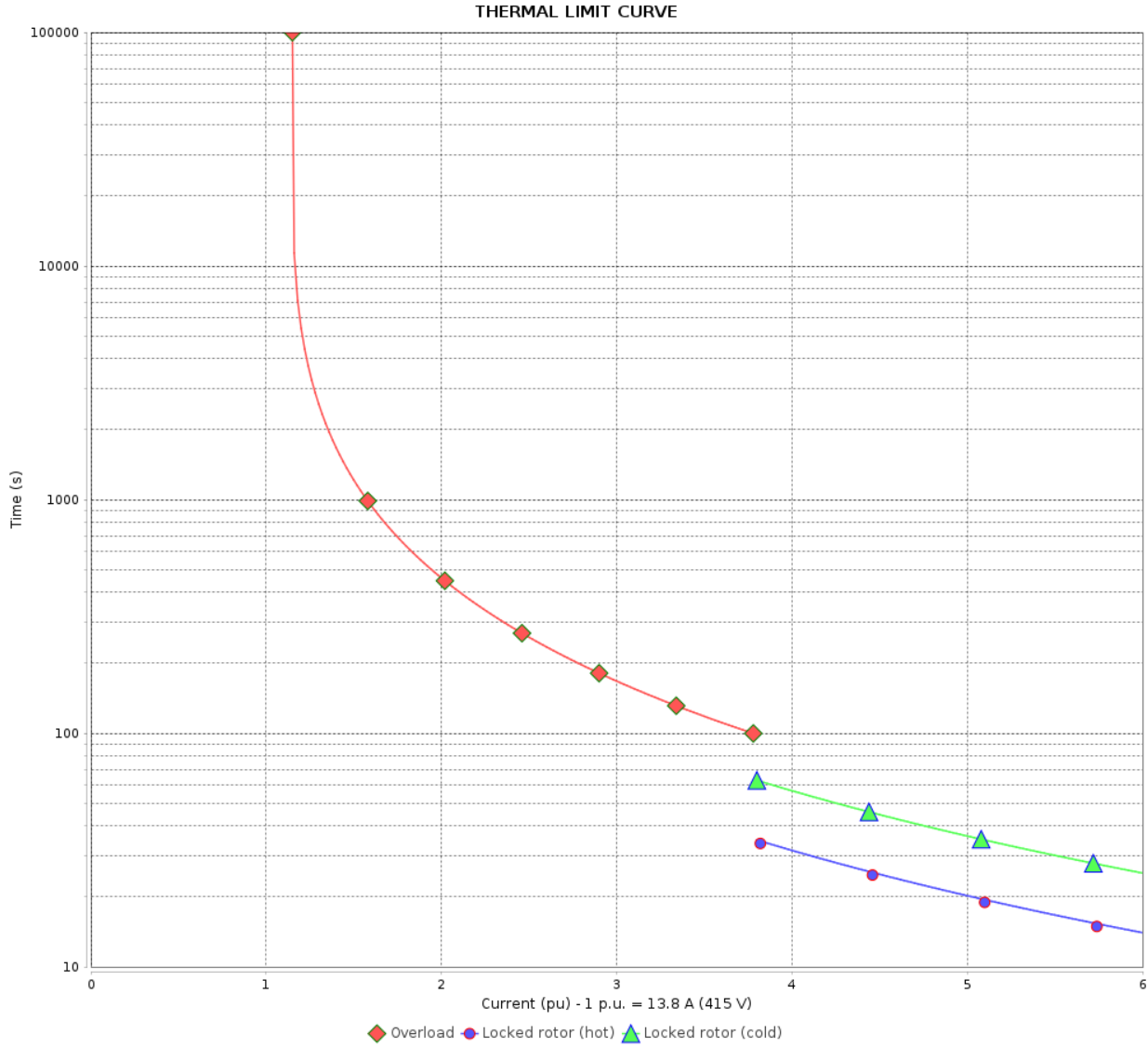
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Performed by			Page	Revision
Checked by				
Date	04/10/2023			

# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_



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Date		04/10/2023		

# VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

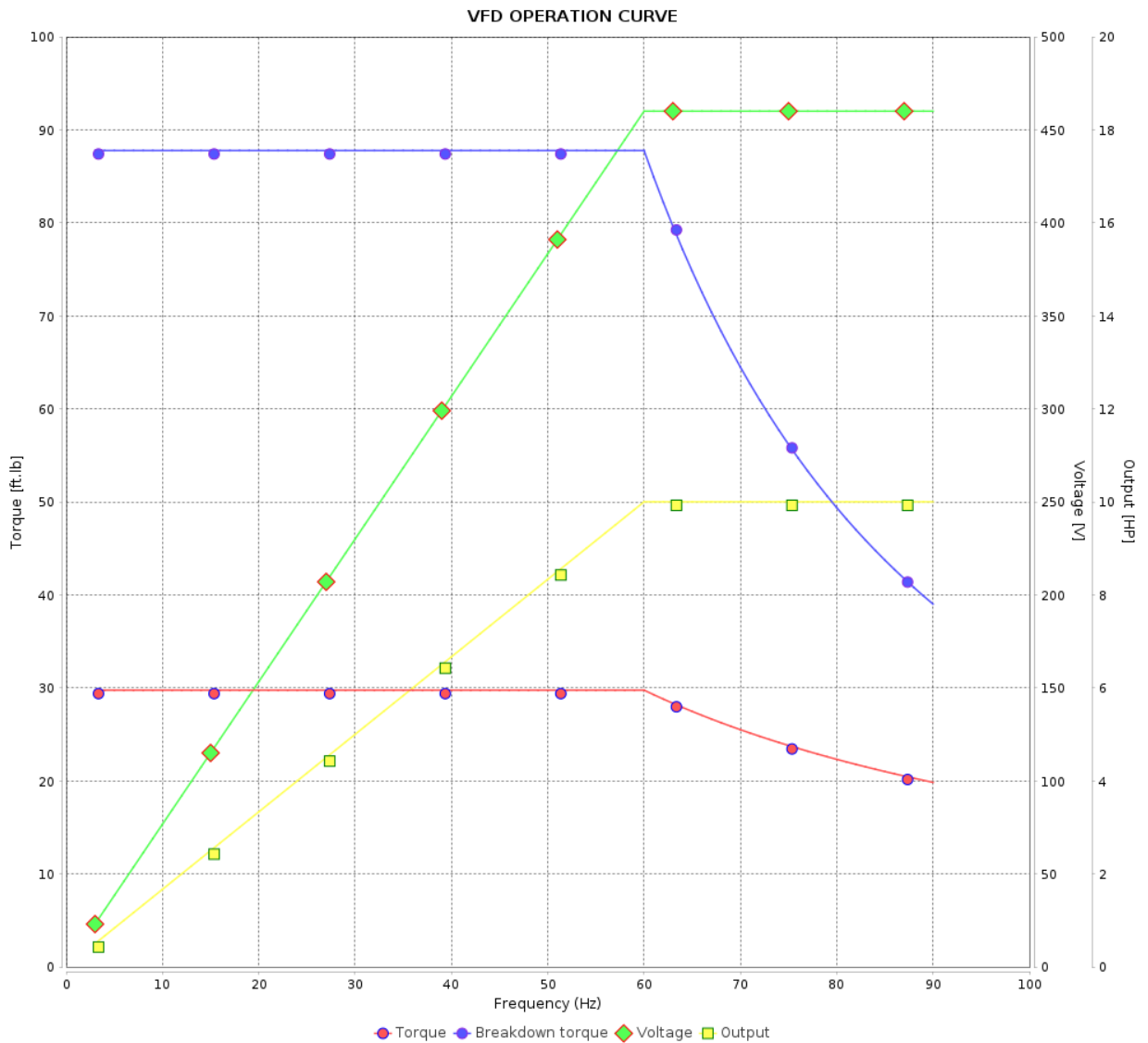


Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase

Product code : 16686921

Catalog # : 01018ST3QAP215T-W22



Performance : 460 V 60 Hz 4P

Rated current : 12.4 A  
 LRC : 6.4  
 Rated torque : 29.8 ft.lb  
 Locked rotor torque : 200 %  
 Breakdown torque : 295 %  
 Rated speed : 1765 rpm

Moment of inertia (J) : 1.51 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

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# VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



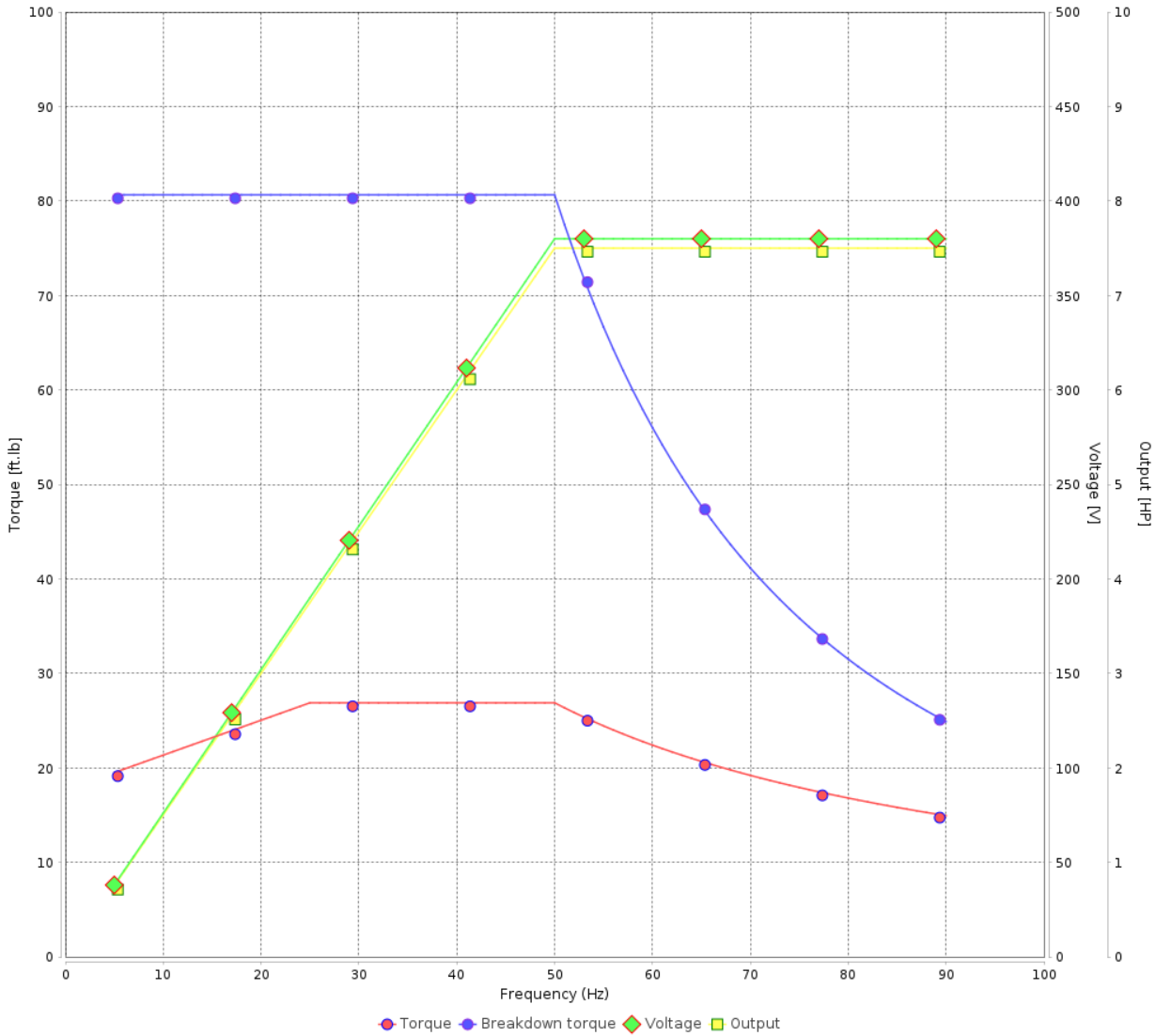
Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency  
Three-Phase

Product code : 16686921

Catalog # : 01018ST3QAP215T-W22

VFD OPERATION CURVE



Performance : 380 V 50 Hz 4P IE3

Rated current : 11.2 A  
LRC : 6.7  
Rated torque : 26.9 ft.lb  
Locked rotor torque : 200 %  
Breakdown torque : 300 %  
Rated speed : 1465 rpm

Moment of inertia (J) : 1.51 sq.ft.lb  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.15  
Temperature rise : 80 K  
Design : B

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# VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

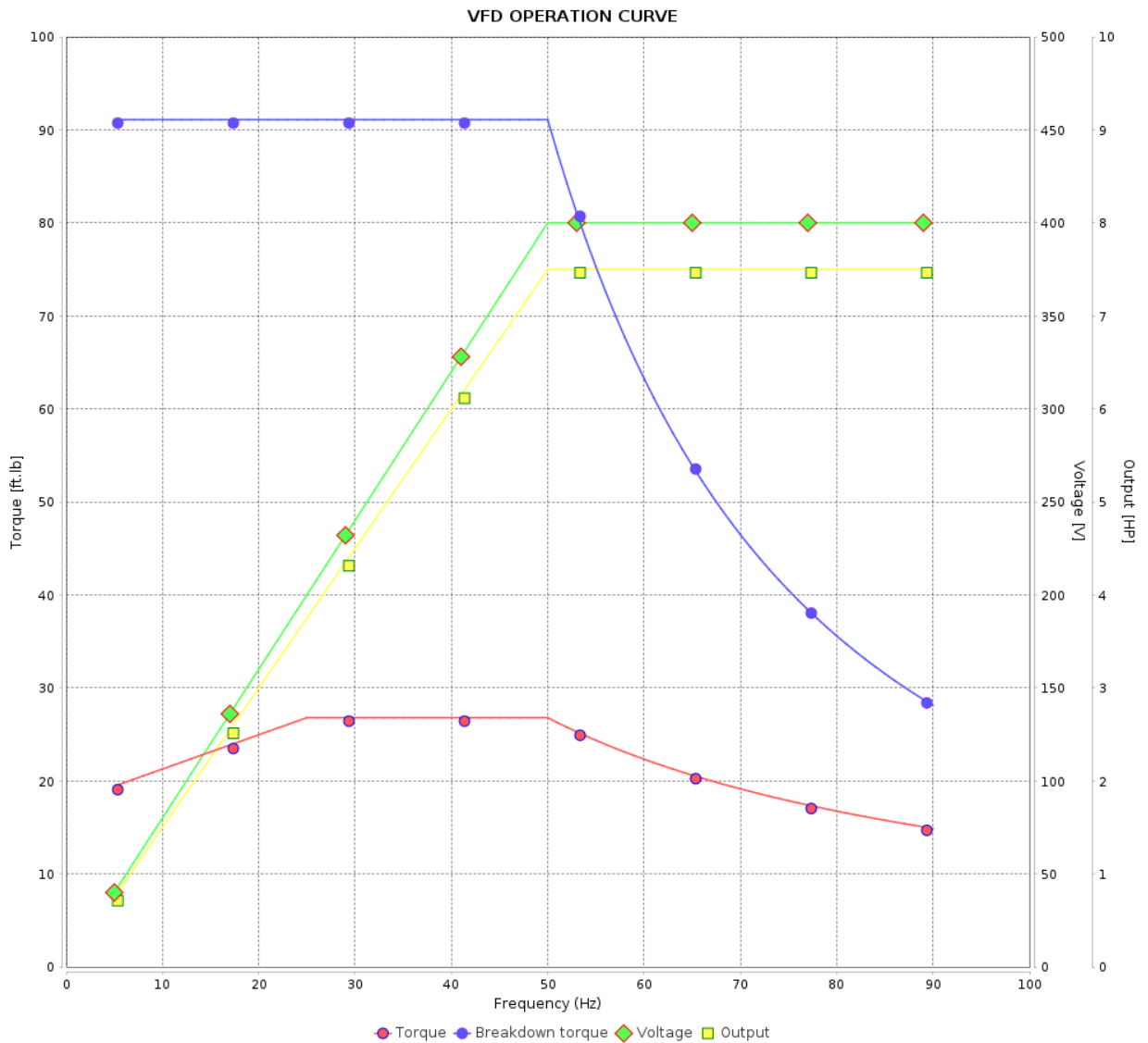


Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase

Product code : 16686921

Catalog # : 01018ST3QAP215T-W22



Performance : 400 V 50 Hz 4P IE3

Rated current : 11.0 A  
 LRC : 7.1  
 Rated torque : 26.8 ft.lb  
 Locked rotor torque : 240 %  
 Breakdown torque : 340 %  
 Rated speed : 1470 rpm

Moment of inertia (J) : 1.51 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

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# VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

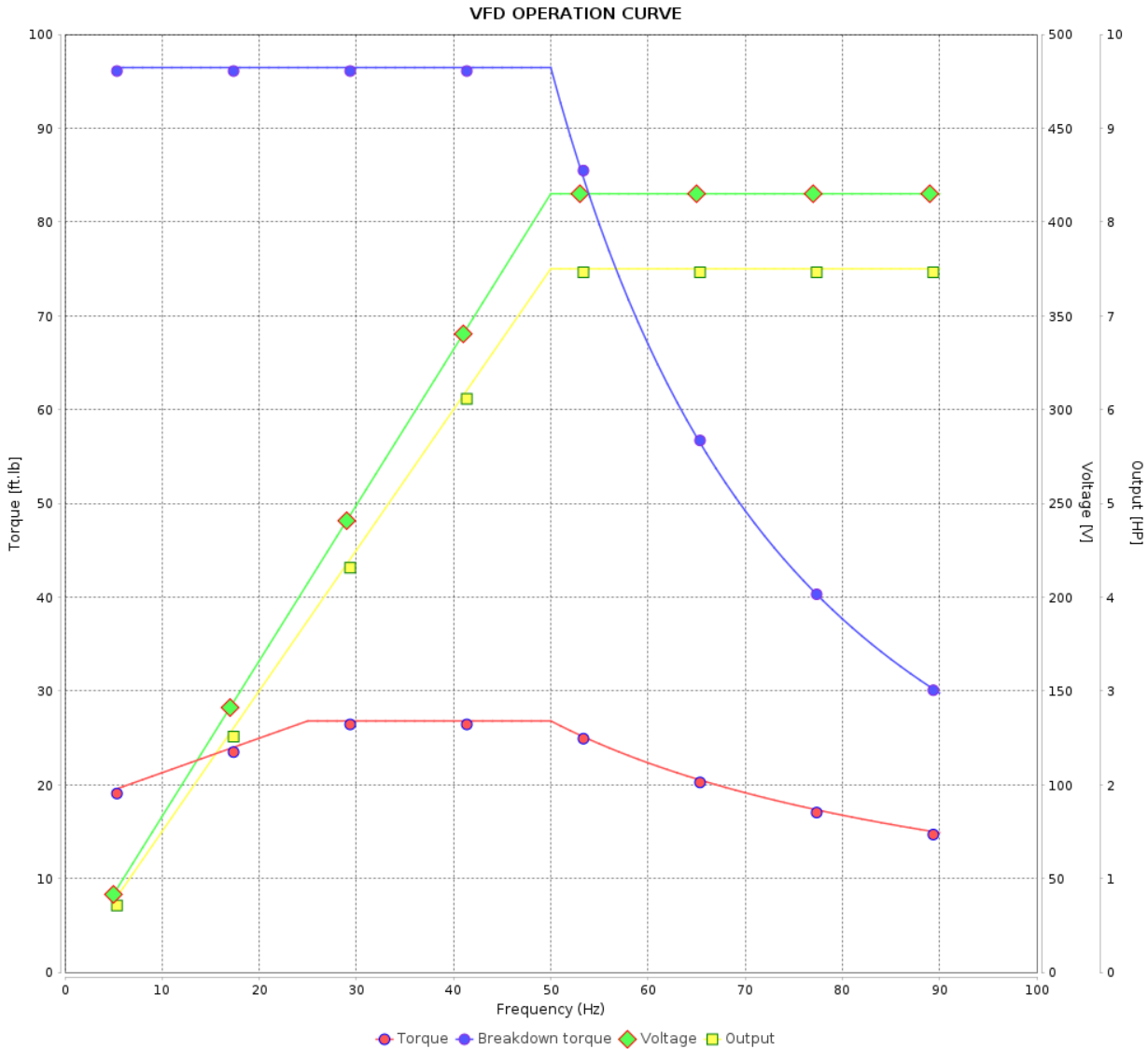


Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase

Product code : 16686921

Catalog # : 01018ST3QAP215T-W22



Performance : 415 V 50 Hz 4P IE3

Rated current : 10.9 A  
 LRC : 7.5  
 Rated torque : 26.8 ft.lb  
 Locked rotor torque : 260 %  
 Breakdown torque : 360 %  
 Rated speed : 1470 rpm

Moment of inertia (J) : 1.51 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

Rev.	Changes Summary	Performed	Checked	Date
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Date	04/10/2023			

# VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

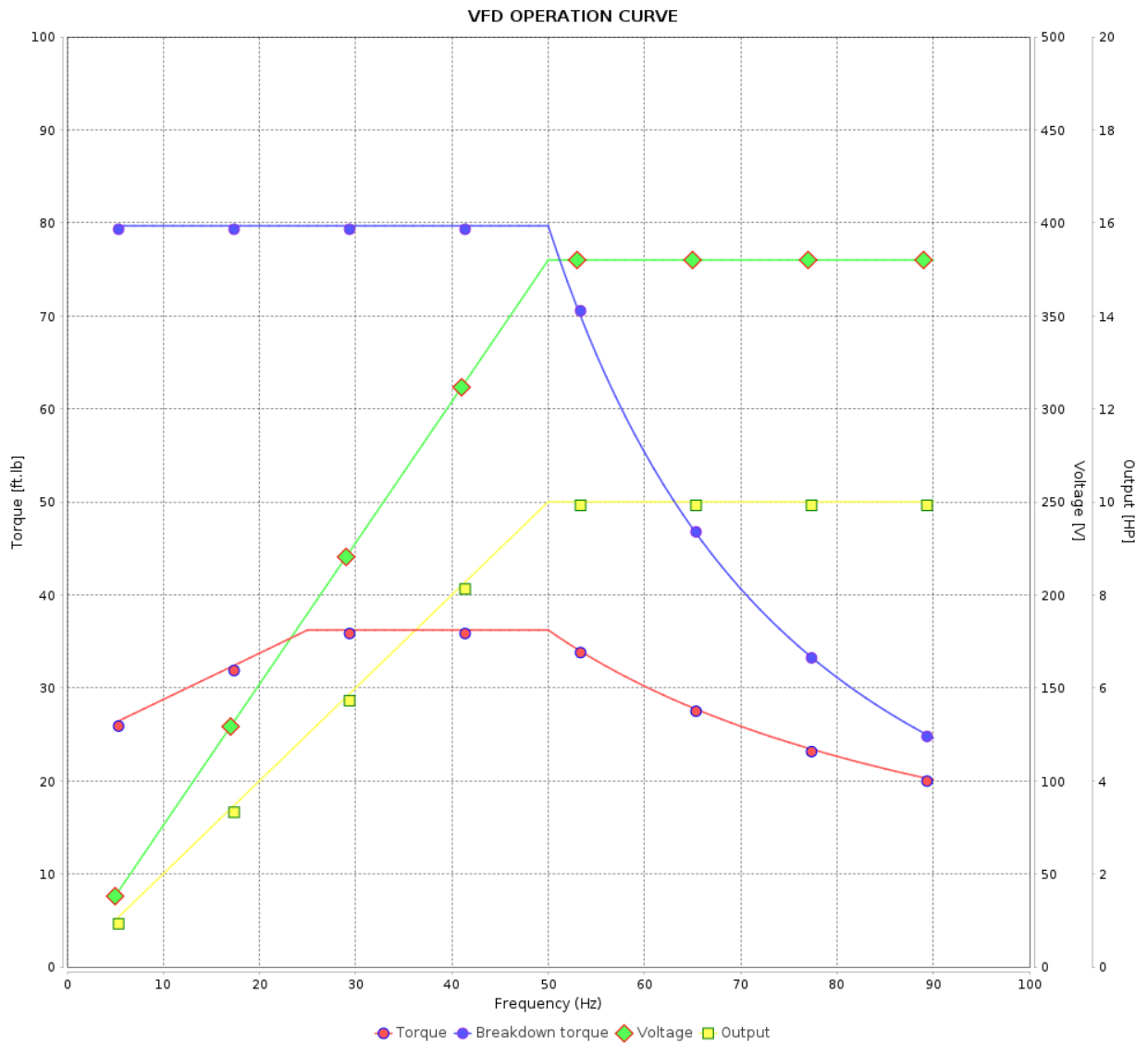


Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase

Product code : 16686921

Catalog # : 01018ST3QAP215T-W22



Performance : 380 V 50 Hz 4P IE1

Rated current : 15.0 A  
 LRC : 5.1  
 Rated torque : 36.2 ft.lb  
 Locked rotor torque : 150 %  
 Breakdown torque : 220 %  
 Rated speed : 1450 rpm

Moment of inertia (J) : 1.51 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

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# VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

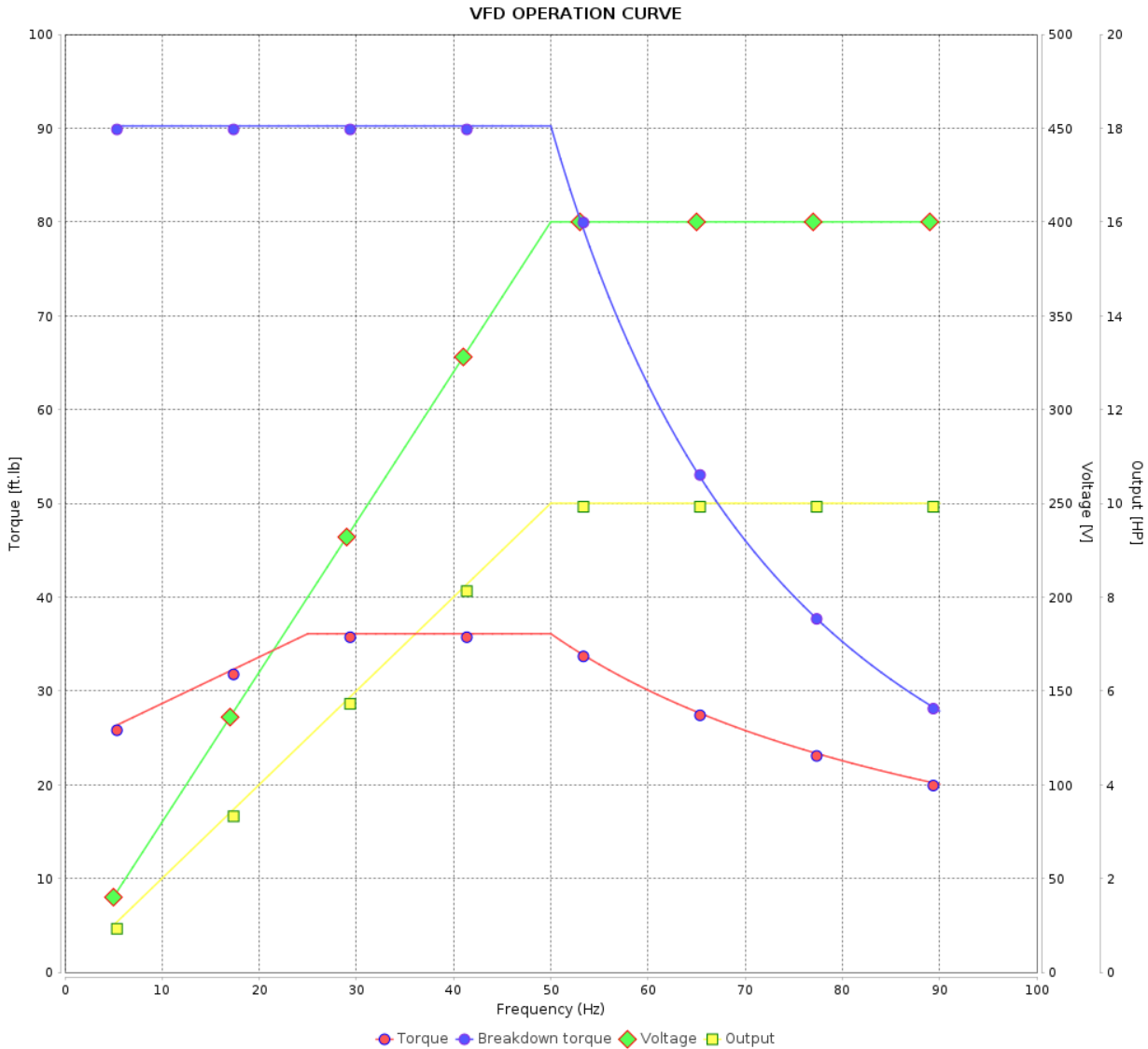


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Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase

Product code : 16686921

Catalog # : 01018ST3QAP215T-W22



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Rated current : 14.2 A  
 LRC : 5.6  
 Rated torque : 36.1 ft.lb  
 Locked rotor torque : 180 %  
 Breakdown torque : 250 %  
 Rated speed : 1455 rpm

Moment of inertia (J) : 1.51 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 36 / 37	Revision
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Date	04/10/2023			

# VFD OPERATION CURVE

## Three Phase Induction Motor - Squirrel Cage

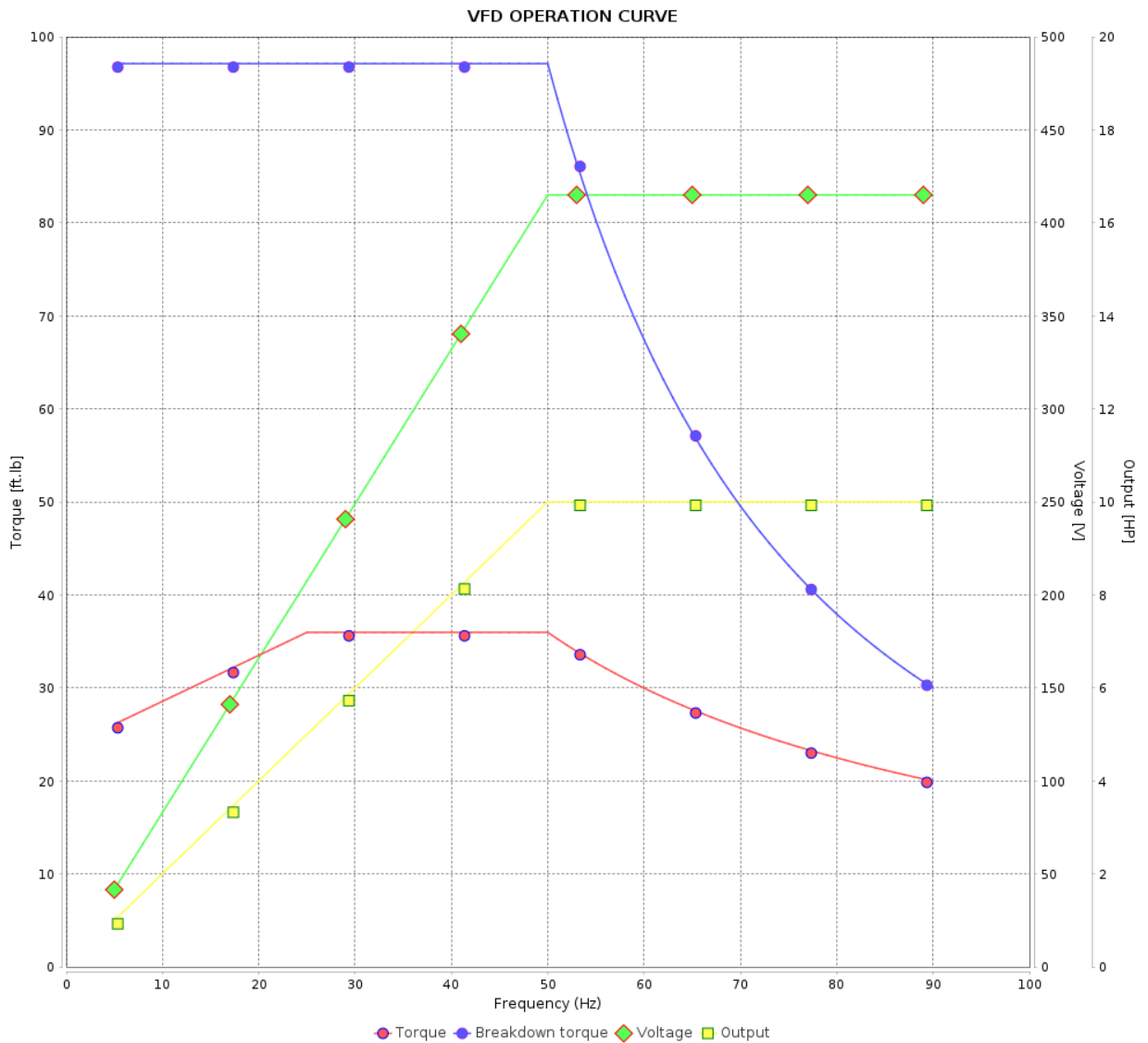


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Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase

Product code : 16686921

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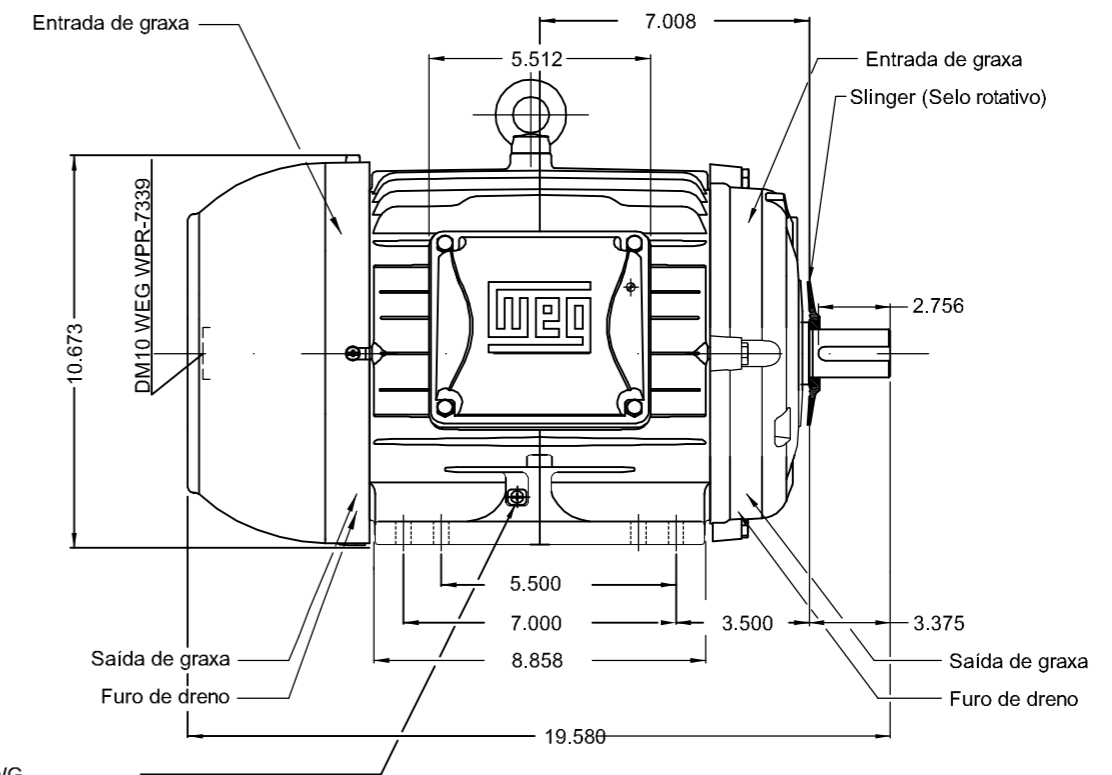
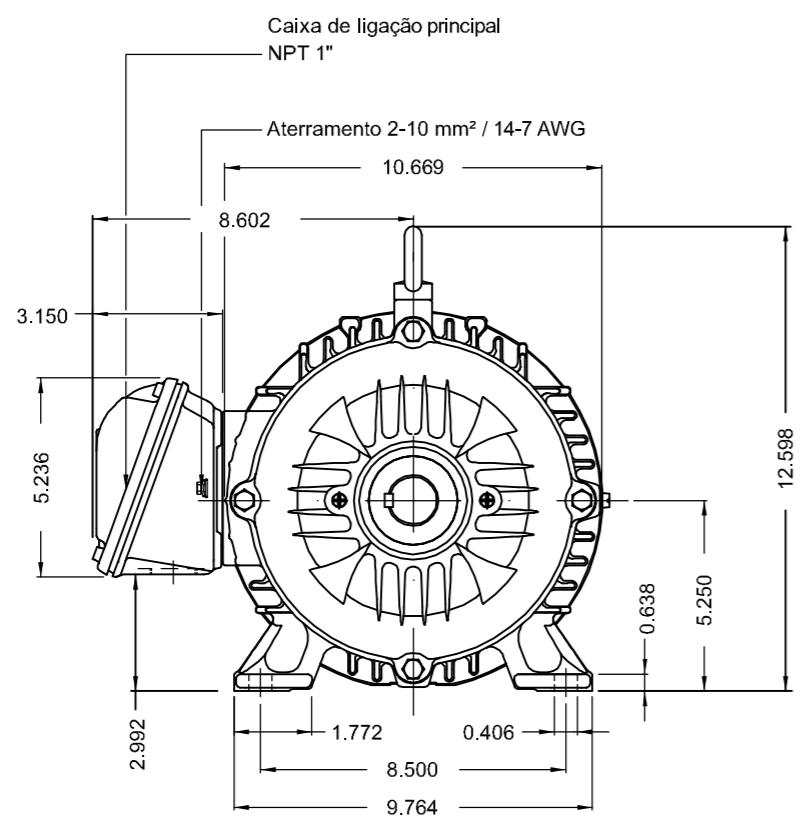


Performance : 415 V 50 Hz 4P IE2

Rated current : 13.8 A  
 LRC : 6.0  
 Rated torque : 36.0 ft.lb  
 Locked rotor torque : 190 %  
 Breakdown torque : 270 %  
 Rated speed : 1460 rpm

Moment of inertia (J) : 1.51 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

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Date	04/10/2023			



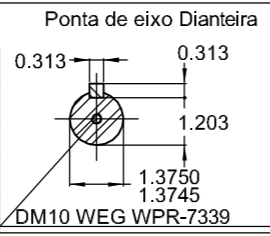
Aterramento 2-10 mm² / 14-7 AWG

420104067  
421801240 PLACAS

10 HP 04 Polos 60 Hz

WEG HOUSE ACCOUNT MOTORS

500002334714	100000172734	RBOECK	RBOECK	RBOECK	17.03.2023	05			
ECM	LOC	RESUMO MODIFICAÇÃO			EXECUTADO	VERIFICADO	LIBERADO	DATA	VER
EXECUTOR	SCARMAGNANI	MOTOR TRIF. W22 NEMA P. EFF. IEEEE841			10009783927				
VERIFICADOR	SCARMAGNANI	CARÇAÇA 213/5T IP56 TEFC			000	05			
LIBERADOR	MARLONB								
DATA LB.	08.06.2022	WMO	JARAGUA DO SUL	Engenharia de Produto	FOLHA	1 / 1			



- Placa de identificação com a marcação API 661
- Placa de identificação com marcação especial
- Saída de graxa conforme IEEEE841
- Forma construtiva NEMA W-8
- Forma construtiva V6D

UNCONTROLLED COPY  
Dimensões em polegadas  
RELEASED  
ZME A3

MADE IN BRAZIL  
16686921



MODEL 01018ST3QAP215T-W22

Inverter Duty Motor  
Severe Duty  
API 661



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 - T4A  
For use on PWM: Gr. A, B, C, D and F,  
VT 1000:1, CT 20:1, 1.00SF - T3A

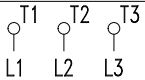


FOR SAFE AREA  
Mod. TE1BFOXON  
CC029A

PH3 60Hz Fr. 213/5T 1000m.a.s.l. IP56 TEFC 191 lb

V 460 A 12.4  
HP 10 kW 7.5  
SF 1.15 SFA 14.3  
RPM 1765 PF 0.83  
AMB 40°C INS cl. F DT80K  
DUTY CONT. DES B Code H

NEMA NOM EFF 91.7%  
GUARANT. EFF 90.2%



460V

- NU-308-C3 (11g) 40RU03X30
- 6207-C3 (7g) 35BC02X30
- MOBIL POLYREX EM (16000h)

