

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :								
Product line	: W22 IEEE 841 NEMA Premium Efficiency Three-Phase	Product code :	16689836	Catalog # :	01518ST3QAP254T-W22			
Frame	: 254/6T	Cooling method	: IC411 - TEFC					
Insulation class	: F	Mounting	: W-8					
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	: 299 lb					
Protection degree	: IP56	Moment of inertia (J)	: 2.62 sq.ft.lb					
Design	: B							
Output [HP]	15	10	10	10	15	15	15	
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]	18.0	15.2	14.8	14.5	21.5	20.5	20.0	
L. R. Amperes [A]	115	109	115	120	105	111	118	
LRC [A]	6.4x(Code G)	7.2x(Code J)	7.8x(Code J)	8.3x(Code K)	4.9x(Code E)	5.4x(Code F)	5.9x(Code G)	
No load current [A]	7.00	6.70	7.10	7.40	7.10	7.60	7.40	
Rated speed [RPM]	1768	1475	1480	1480	1455	1460	1465	
Slip [%]	1.78	1.67	1.33	1.33	3.00	2.67	2.33	
Rated torque [ft.lb]	44.6	35.6	35.5	35.5	54.1	54.0	53.8	
Locked rotor torque [%]	240	250	280	310	160	200	210	
Breakdown torque [%]	260	300	340	370	200	220	240	
Service factor	1.15	1.15	1.15	1.15	1.00	1.00	1.00	
Temperature rise	80 K	80 K	80 K	80 K	80 K	80 K	80 K	
Locked rotor time	55s (cold) 31s (hot)	72s (cold) 40s (hot)	63s (cold) 35s (hot)	57s (cold) 32s (hot)	41s (cold) 23s (hot)	41s (cold) 23s (hot)	37s (cold) 21s (hot)	
Noise level ²	64.0 dB(A)	61.0 dB(A)	61.0 dB(A)	61.0 dB(A)	61.0 dB(A)	61.0 dB(A)	61.0 dB(A)	
Efficiency (%)	25%	90.2	88.5	88.1	87.6	90.8	90.8	90.8
	50%	91.0	88.8	88.6	88.3	91.0	91.0	91.0
	75%	91.7	90.3	90.3	90.3	90.2	91.0	91.0
	100%	92.4	90.4	90.6	90.8	90.2	91.0	91.0
Power Factor	25%	0.44	0.40	0.37	0.35	0.49	0.46	0.45
	50%	0.68	0.65	0.62	0.59	0.74	0.71	0.69
	75%	0.78	0.77	0.74	0.72	0.82	0.80	0.79
	100%	0.83	0.83	0.81	0.79	0.86	0.85	0.84
Losses at normative operating points (speed;torque), in percentage of rated output power								
Losses (%)	P1 (0,9;1,0)	8.1	8.1	8.1	8.1	8.1	8.1	8.1
	P2 (0,5;1,0)	6.8	6.8	6.8	6.8	6.8	6.8	6.8
	P3 (0,25;1,0)	6.3	6.3	6.3	6.3	6.3	6.3	6.3
	P4 (0,9;0,5)	3.9	3.9	3.9	3.9	3.9	3.9	3.9
	P5 (0,5;0,5)	2.7	2.7	2.7	2.7	2.7	2.7	2.7
	P6 (0,5;0,25)	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	P7 (0,25;0,25)	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Bearing type	: Drive end : NU-309 C3	Non drive end : 6209 C3	Foundation loads					
Sealing	: Inpro/Seal	Inpro/Seal	Max. traction	: 469 lb				
Lubrication interval	: 14000 h	19000 h	Max. compression	: 768 lb				
Lubricant amount	: 13 g	9 g						
Lubricant type	: Mobil Polyrex EM							
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TORQUE AND CURRENT VS SPEED CURVE



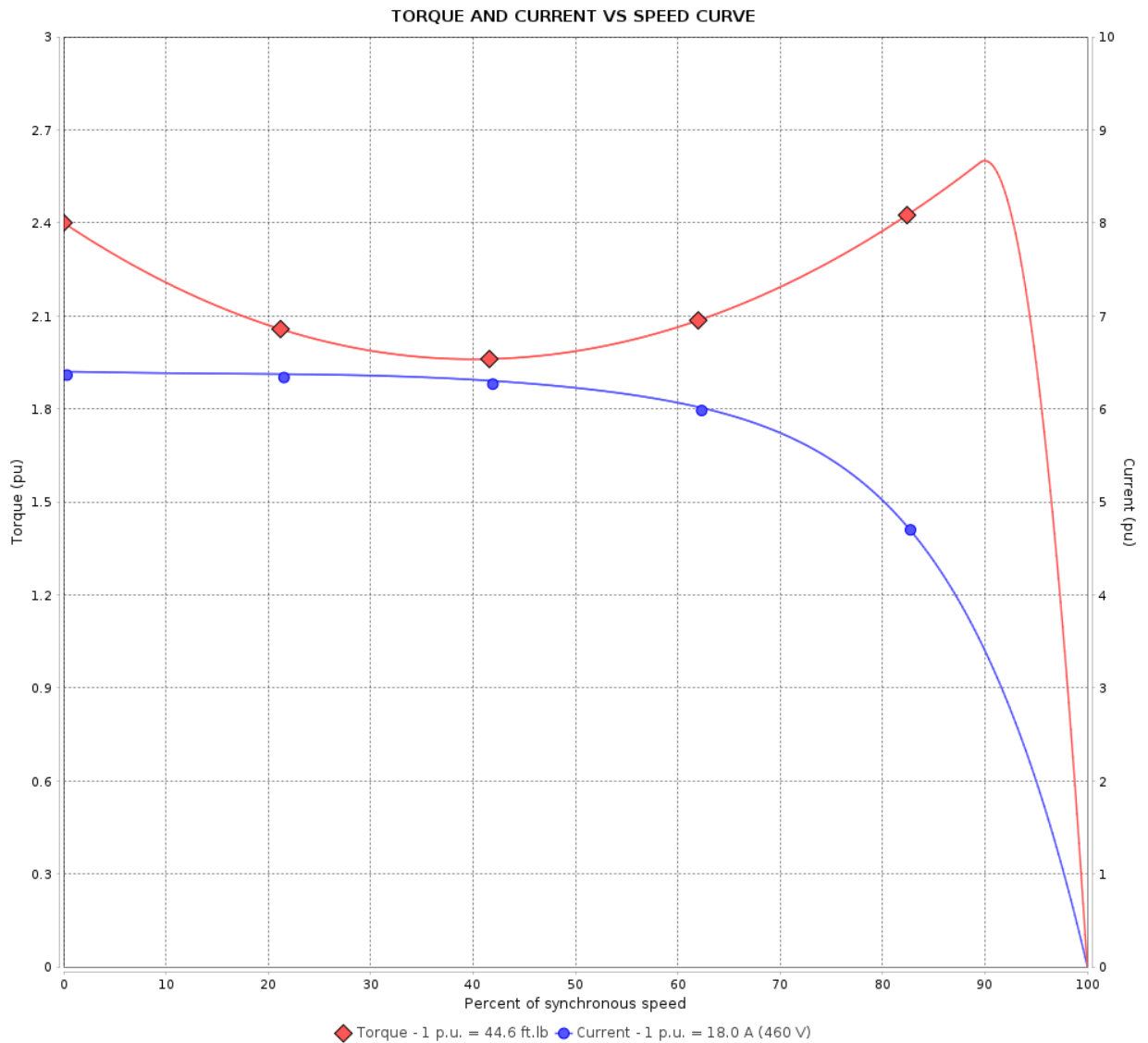
Three Phase Induction Motor - Squirrel Cage

Customer :

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

Product code : 16689836

Catalog # : 01518ST3QAP254T-W22



Performance : 460 V 60 Hz 4P

Rated current	: 18.0 A	Moment of inertia (J)	: 2.62 sq.ft.lb
LRC	: 6.4	Duty cycle	: Cont.(S1)
Rated torque	: 44.6 ft.lb	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.15
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1768 rpm	Design	: B

Locked rotor time : 55s (cold) 31s (hot)

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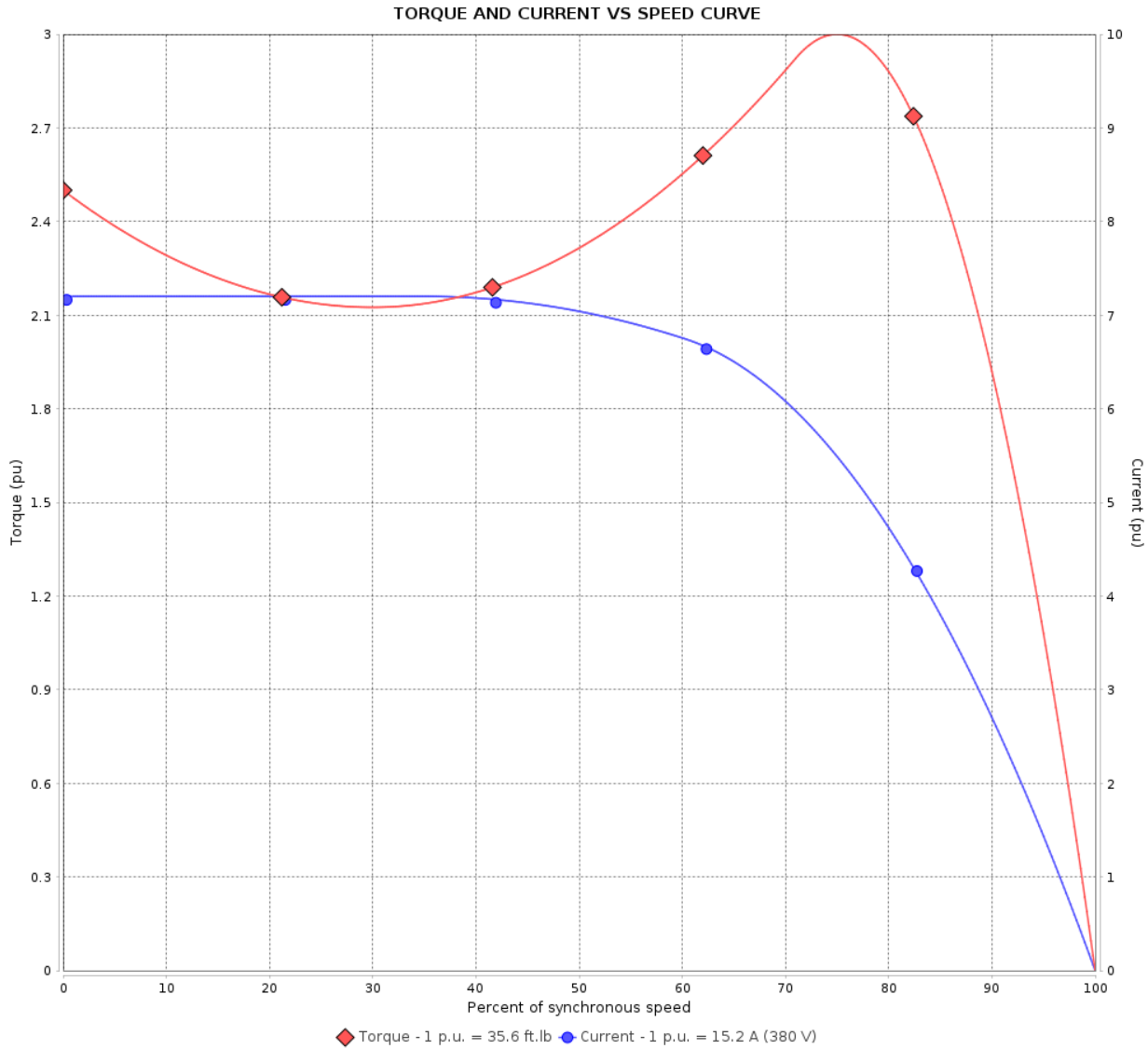


Customer :

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

Product code : 16689836

Catalog # : 01518ST3QAP254T-W22



Performance : 380 V 50 Hz 4P IE3

Rated current	: 15.2 A	Moment of inertia (J)	: 2.62 sq.ft.lb
LRC	: 7.2	Duty cycle	: Cont.(S1)
Rated torque	: 35.6 ft.lb	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1475 rpm	Design	: B

Locked rotor time : 72s (cold) 40s (hot)

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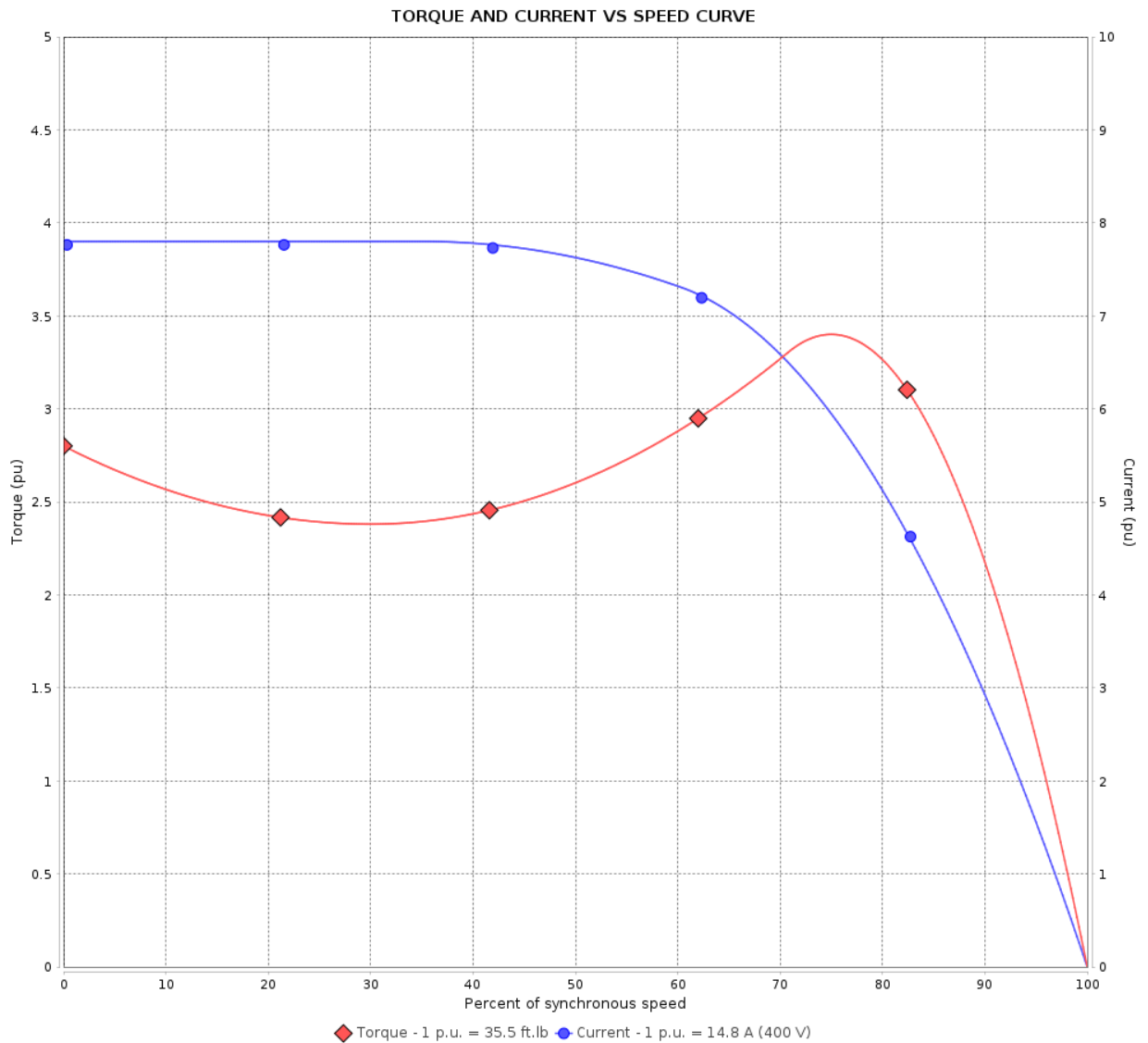
Three Phase Induction Motor - Squirrel Cage

Customer :

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

Product code : 16689836

Catalog # : 01518ST3QAP254T-W22



Performance : 400 V 50 Hz 4P IE3

Rated current	: 14.8 A	Moment of inertia (J)	: 2.62 sq.ft.lb
LRC	: 7.8	Duty cycle	: Cont.(S1)
Rated torque	: 35.5 ft.lb	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	: 1.15
Breakdown torque	: 340 %	Temperature rise	: 80 K
Rated speed	: 1480 rpm	Design	: B

Locked rotor time : 63s (cold) 35s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

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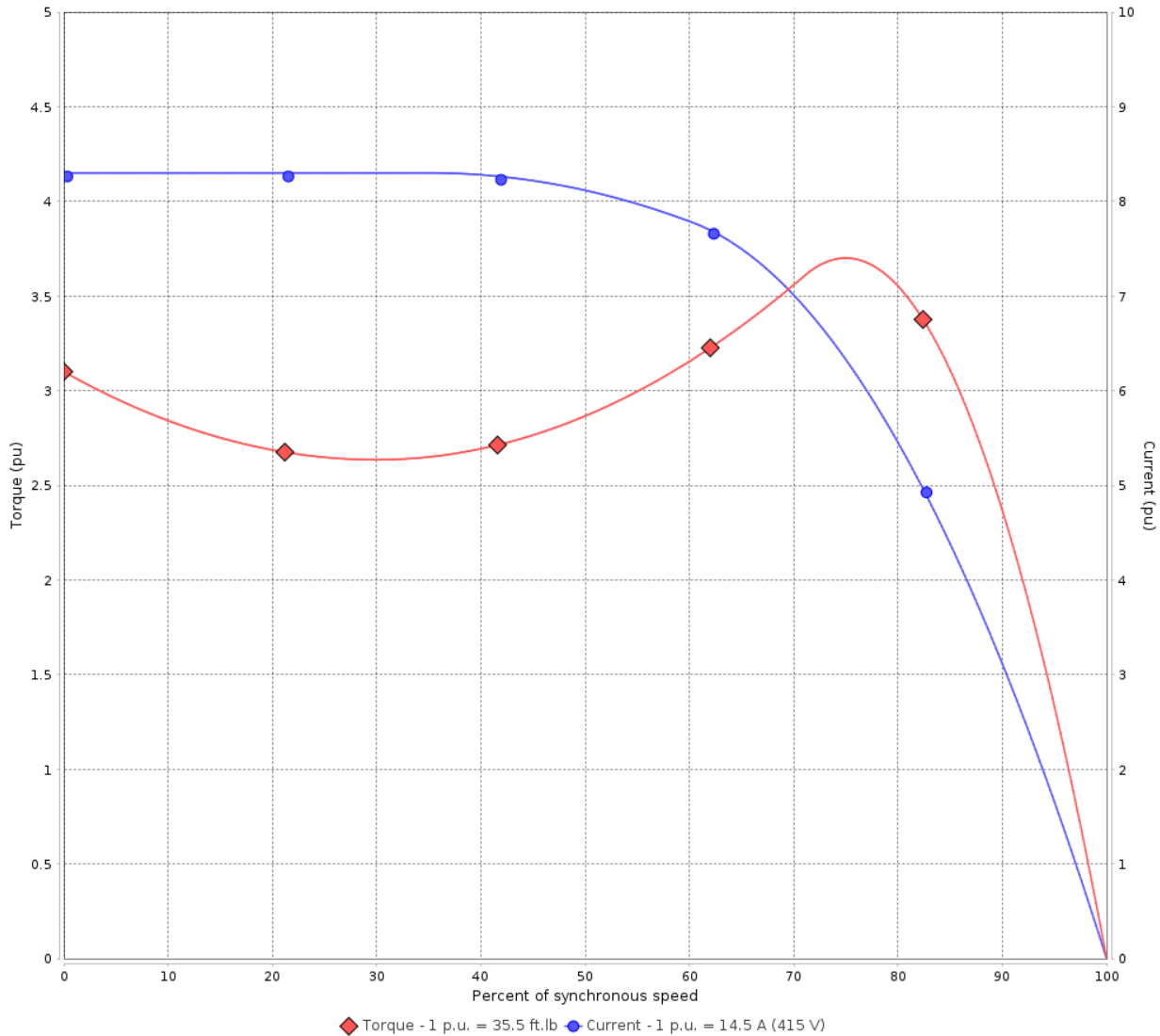
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TORQUE AND CURRENT VS SPEED CURVE



Performance : 415 V 50 Hz 4P IE3

Rated current	: 14.5 A	Moment of inertia (J)	: 2.62 sq.ft.lb
LRC	: 8.3	Duty cycle	: Cont.(S1)
Rated torque	: 35.5 ft.lb	Insulation class	: F
Locked rotor torque	: 310 %	Service factor	: 1.15
Breakdown torque	: 370 %	Temperature rise	: 80 K
Rated speed	: 1480 rpm	Design	: B

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

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TORQUE AND CURRENT VS SPEED CURVE



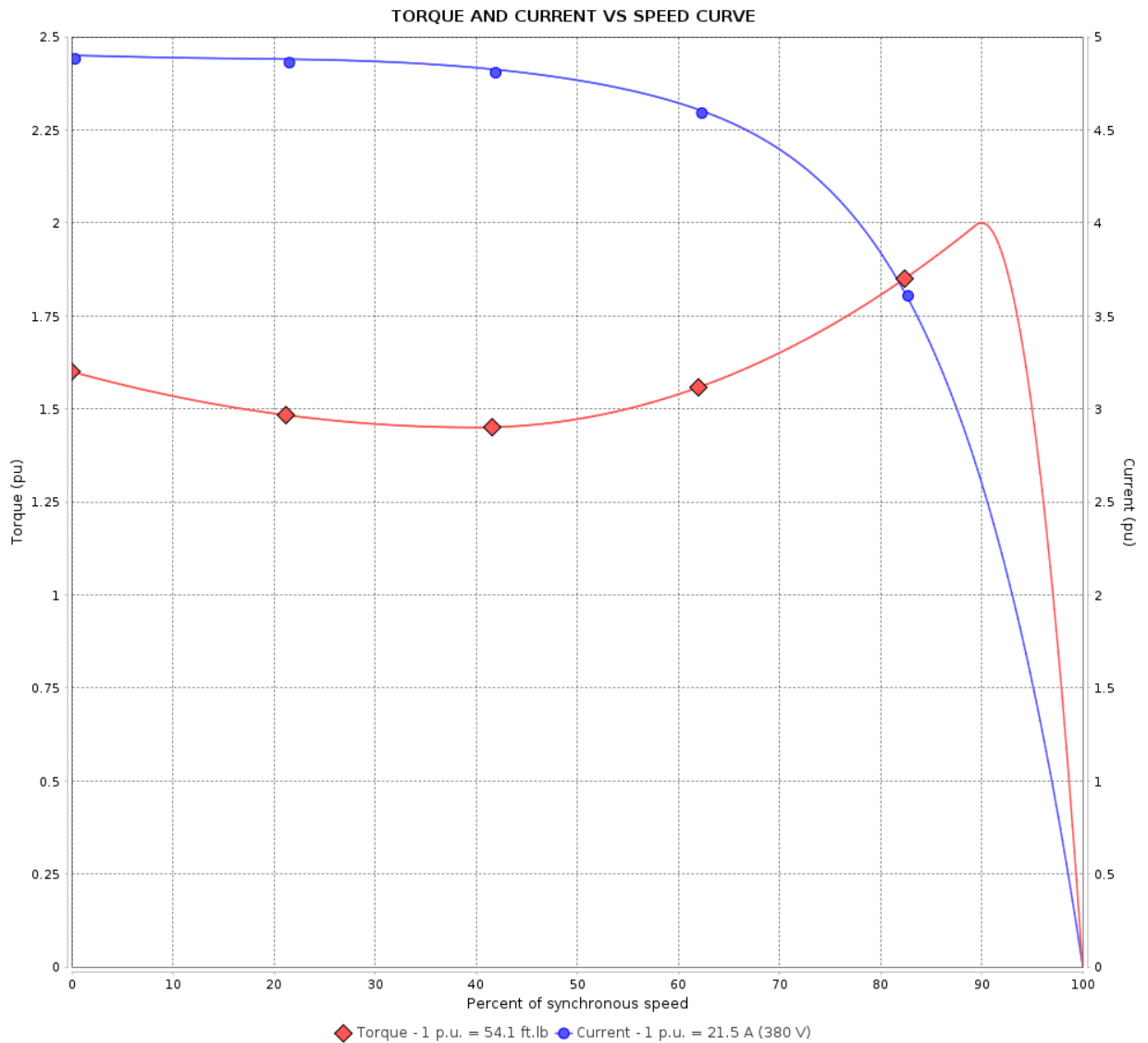
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Customer :

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Catalog # : 01518ST3QAP254T-W22



Performance : 380 V 50 Hz 4P IE2

Rated current	: 21.5 A	Moment of inertia (J)	: 2.62 sq.ft.lb
LRC	: 4.9	Duty cycle	: Cont.(S1)
Rated torque	: 54.1 ft.lb	Insulation class	: F
Locked rotor torque	: 160 %	Service factor	: 1.00
Breakdown torque	: 200 %	Temperature rise	: 80 K
Rated speed	: 1455 rpm	Design	: B

Locked rotor time : 41s (cold) 23s (hot)

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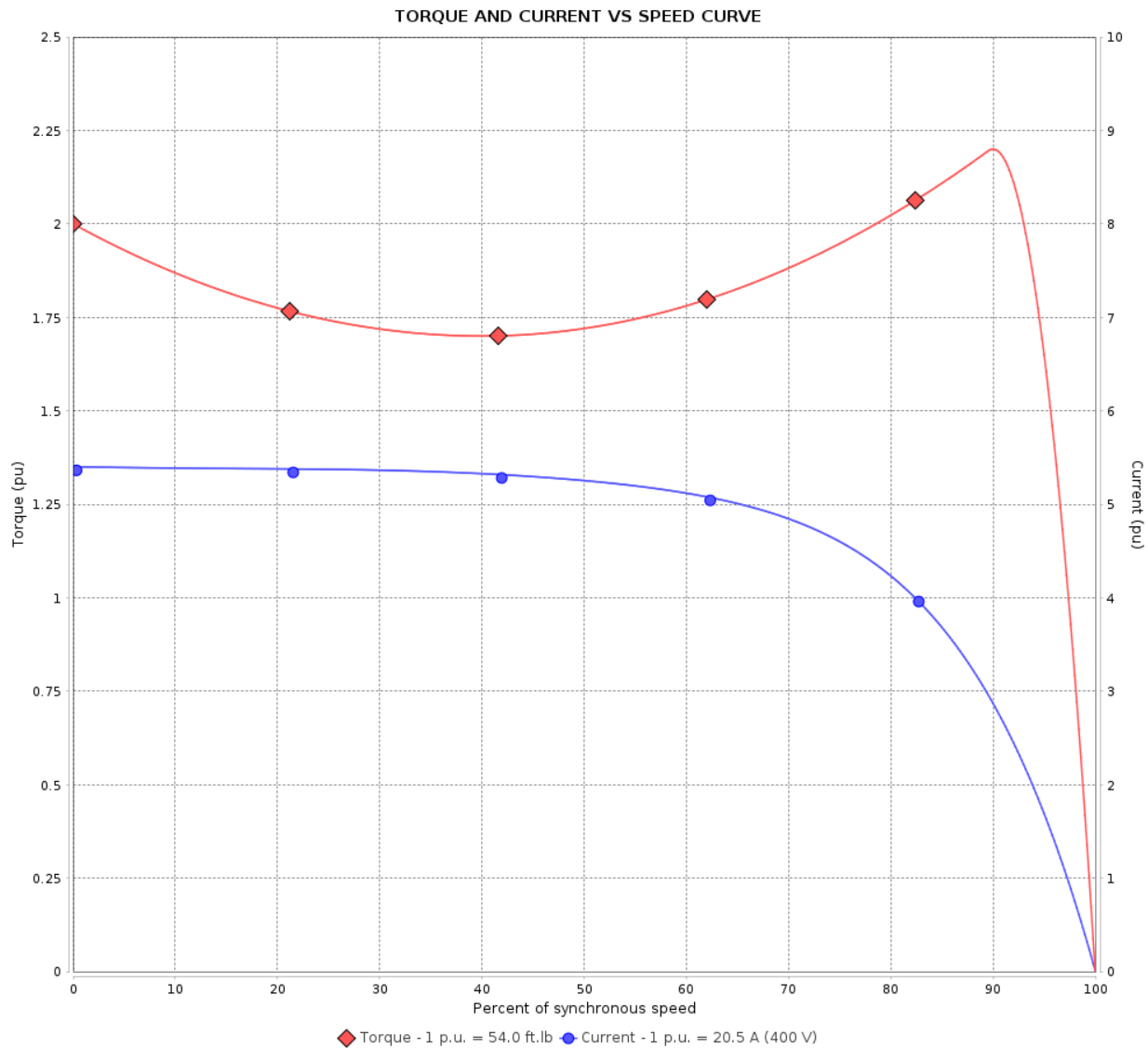


Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency
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Product code : 16689836

Catalog # : 01518ST3QAP254T-W22



Performance : 400 V 50 Hz 4P IE2

Rated current	: 20.5 A	Moment of inertia (J)	: 2.62 sq.ft.lb
LRC	: 5.4	Duty cycle	: Cont.(S1)
Rated torque	: 54.0 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.00
Breakdown torque	: 220 %	Temperature rise	: 80 K
Rated speed	: 1460 rpm	Design	: B

Locked rotor time : 41s (cold) 23s (hot)

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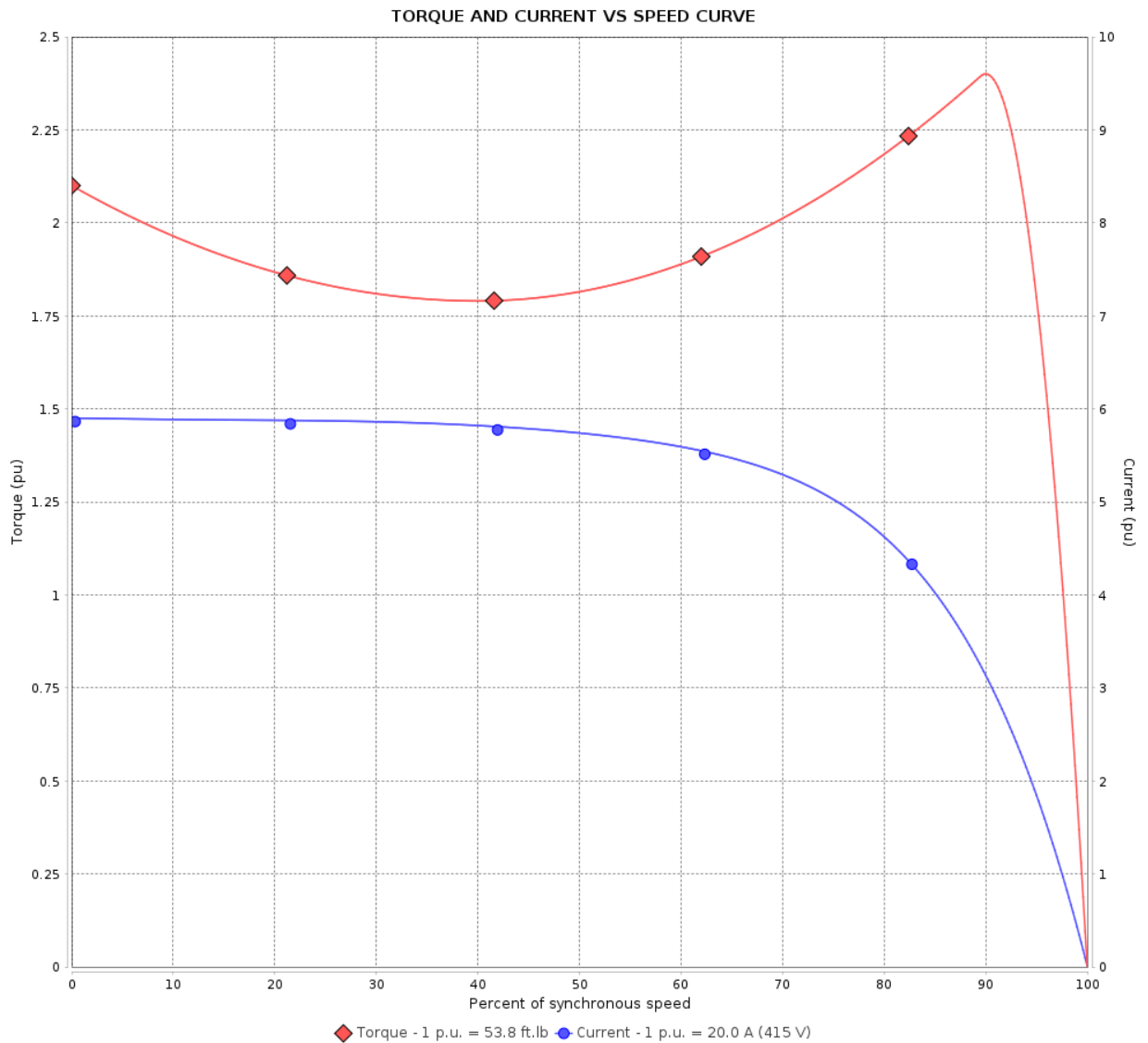
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Performance : 415 V 50 Hz 4P IE2

Rated current	: 20.0 A	Moment of inertia (J)	: 2.62 sq.ft.lb
LRC	: 5.9	Duty cycle	: Cont.(S1)
Rated torque	: 53.8 ft.lb	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.00
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 1465 rpm	Design	: B

Locked rotor time : 37s (cold) 21s (hot)

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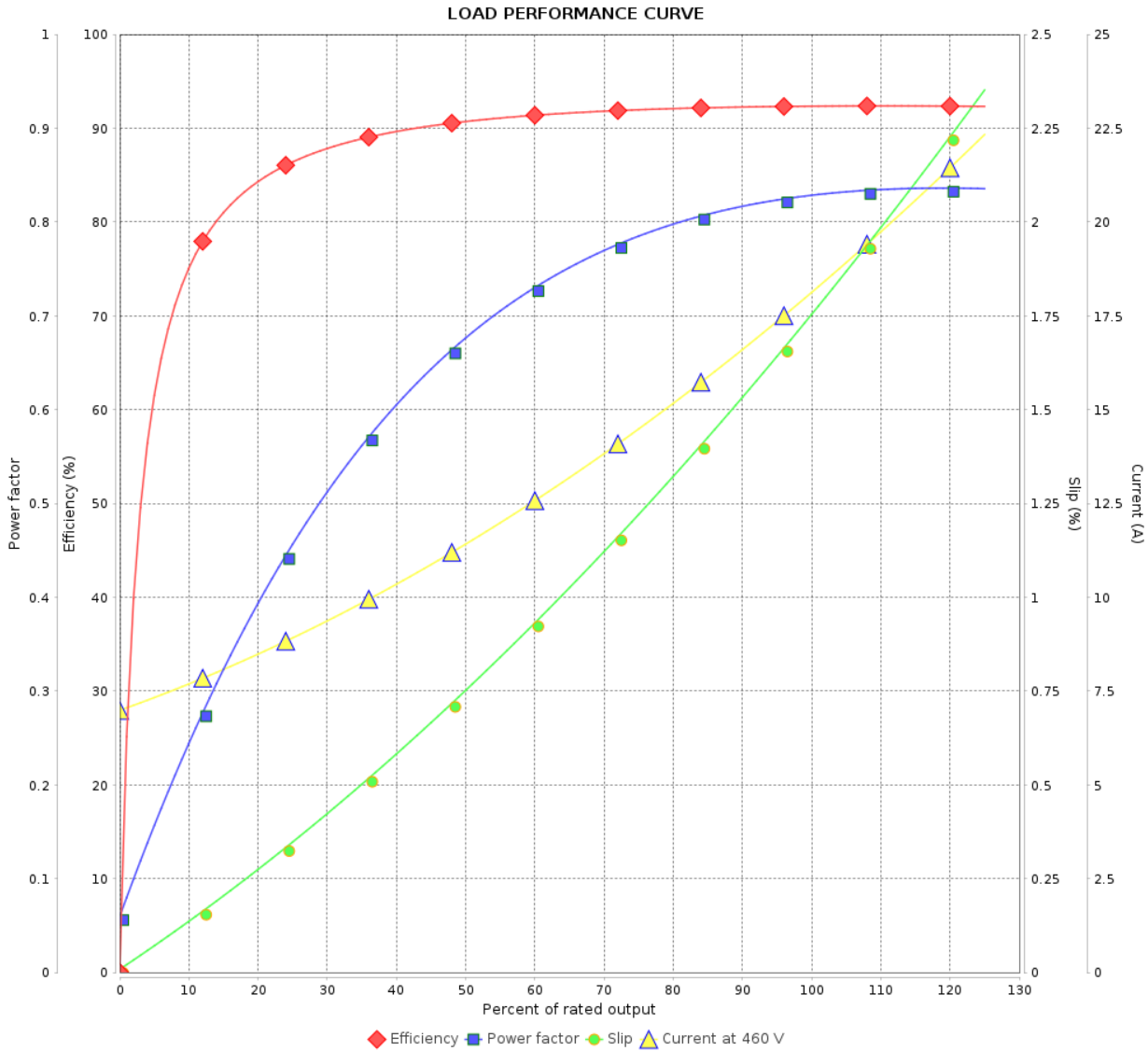


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Catalog # : 01518ST3QAP254T-W22



Performance : 460 V 60 Hz 4P

Rated current : 18.0 A
 LRC : 6.4
 Rated torque : 44.6 ft.lb
 Locked rotor torque : 240 %
 Breakdown torque : 260 %
 Rated speed : 1768 rpm

Moment of inertia (J) : 2.62 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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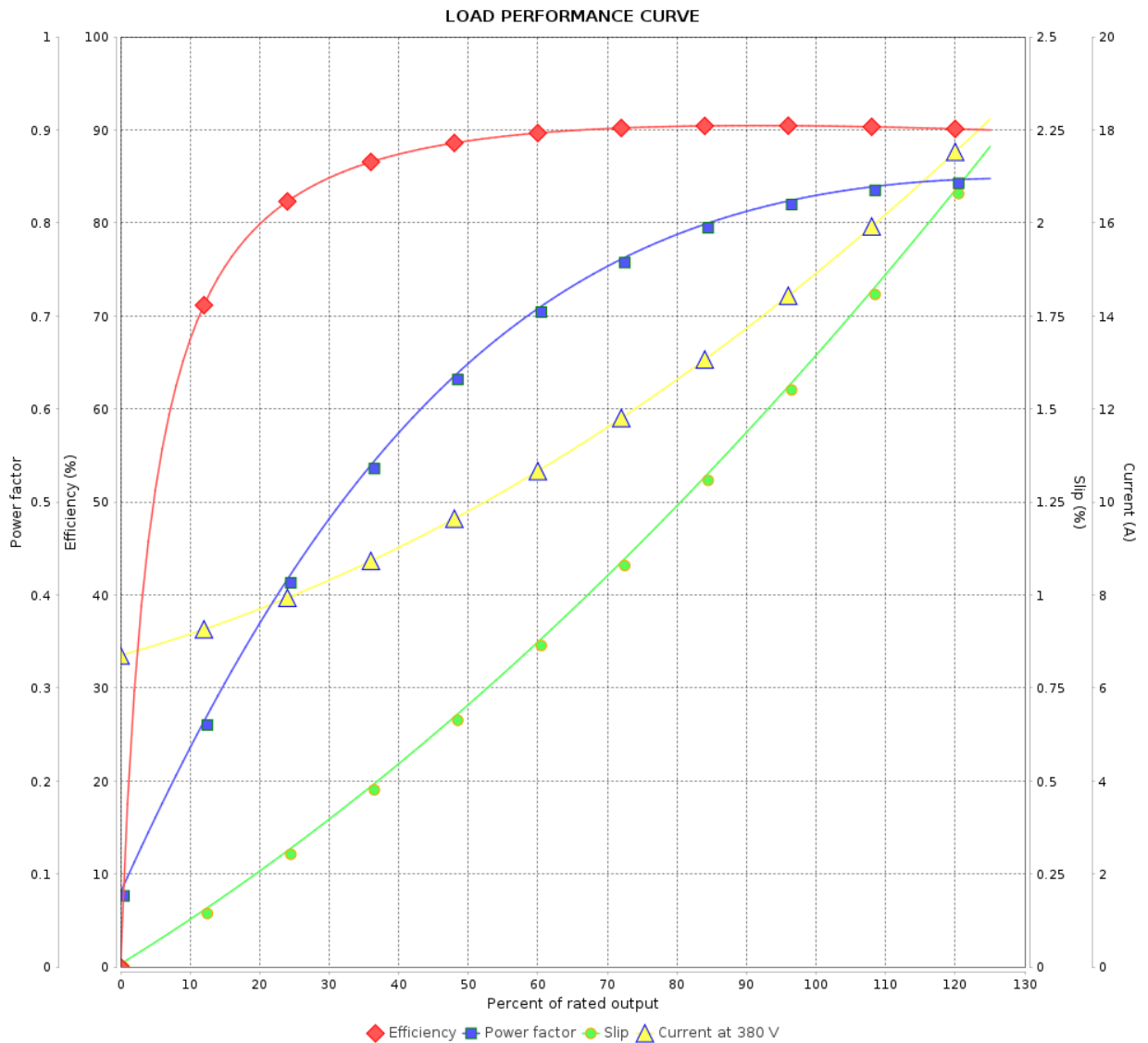


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Performance : 380 V 50 Hz 4P IE3

Rated current : 15.2 A
 LRC : 7.2
 Rated torque : 35.6 ft.lb
 Locked rotor torque : 250 %
 Breakdown torque : 300 %
 Rated speed : 1475 rpm

Moment of inertia (J) : 2.62 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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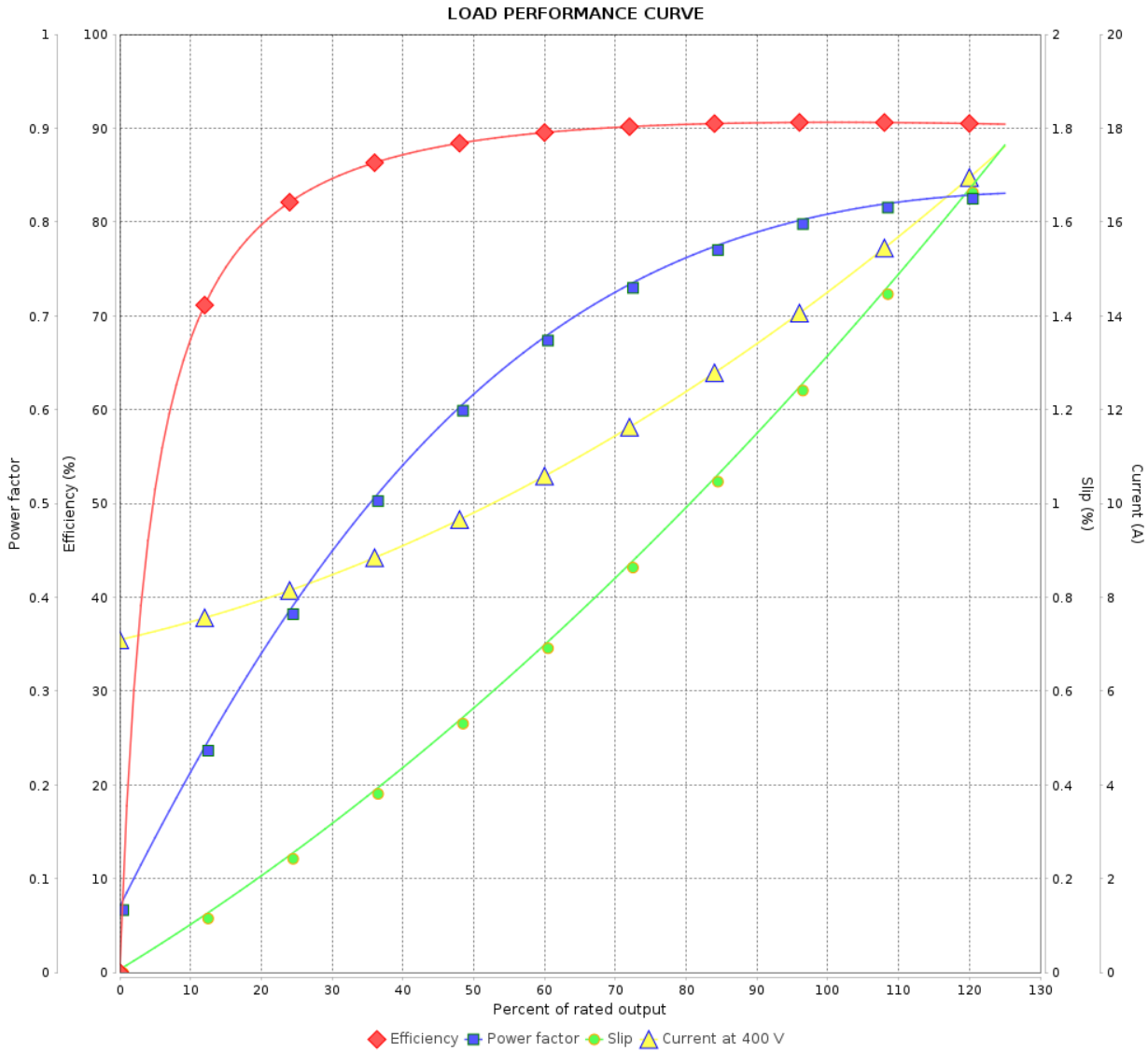


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Product code : 16689836

Catalog # : 01518ST3QAP254T-W22



Performance : 400 V 50 Hz 4P IE3

Rated current	: 14.8 A	Moment of inertia (J)	: 2.62 sq.ft.lb
LRC	: 7.8	Duty cycle	: Cont.(S1)
Rated torque	: 35.5 ft.lb	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	: 1.15
Breakdown torque	: 340 %	Temperature rise	: 80 K
Rated speed	: 1480 rpm	Design	: B

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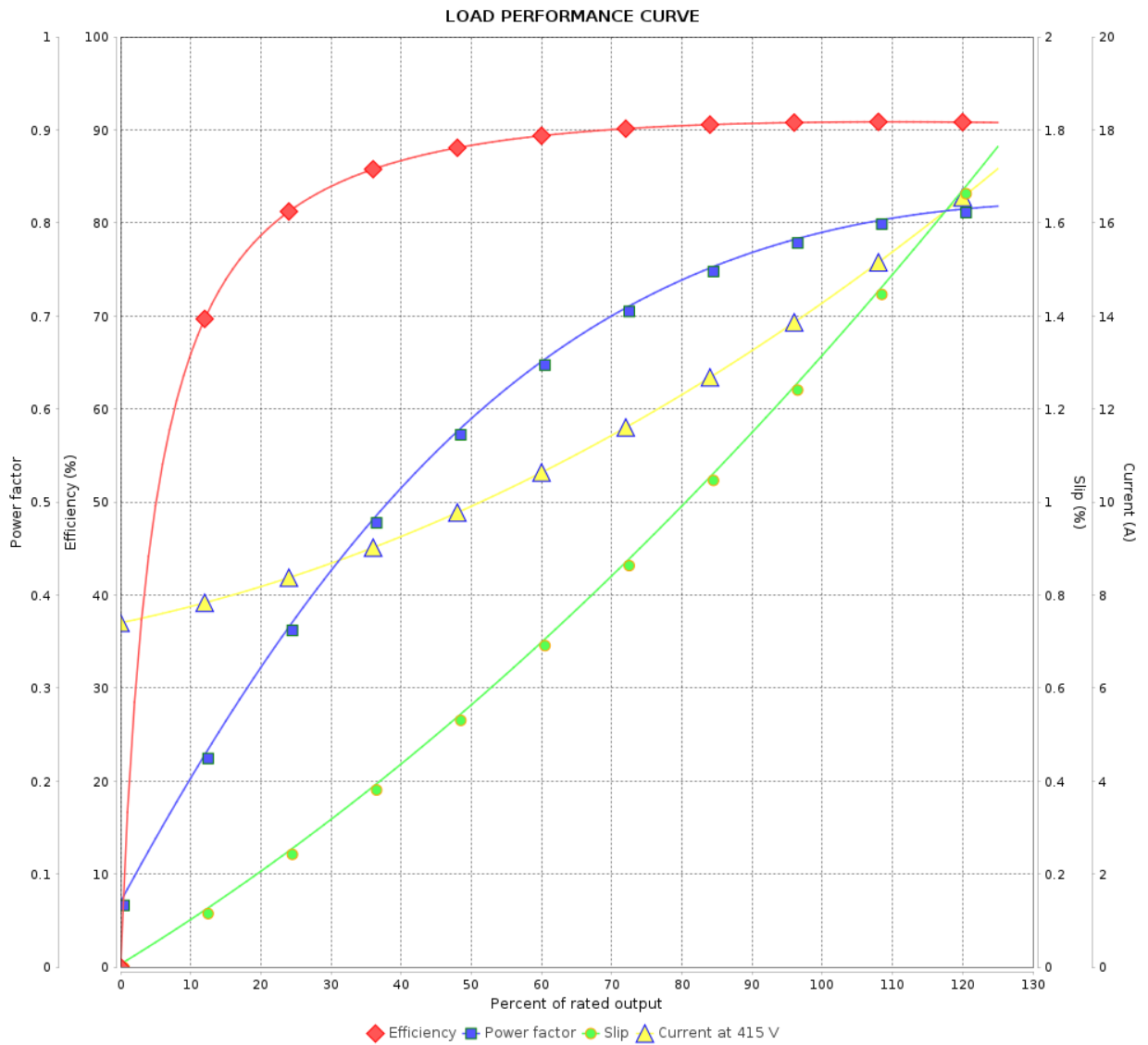


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Performance : 415 V 50 Hz 4P IE3

Rated current : 14.5 A
 LRC : 8.3
 Rated torque : 35.5 ft.lb
 Locked rotor torque : 310 %
 Breakdown torque : 370 %
 Rated speed : 1480 rpm

Moment of inertia (J) : 2.62 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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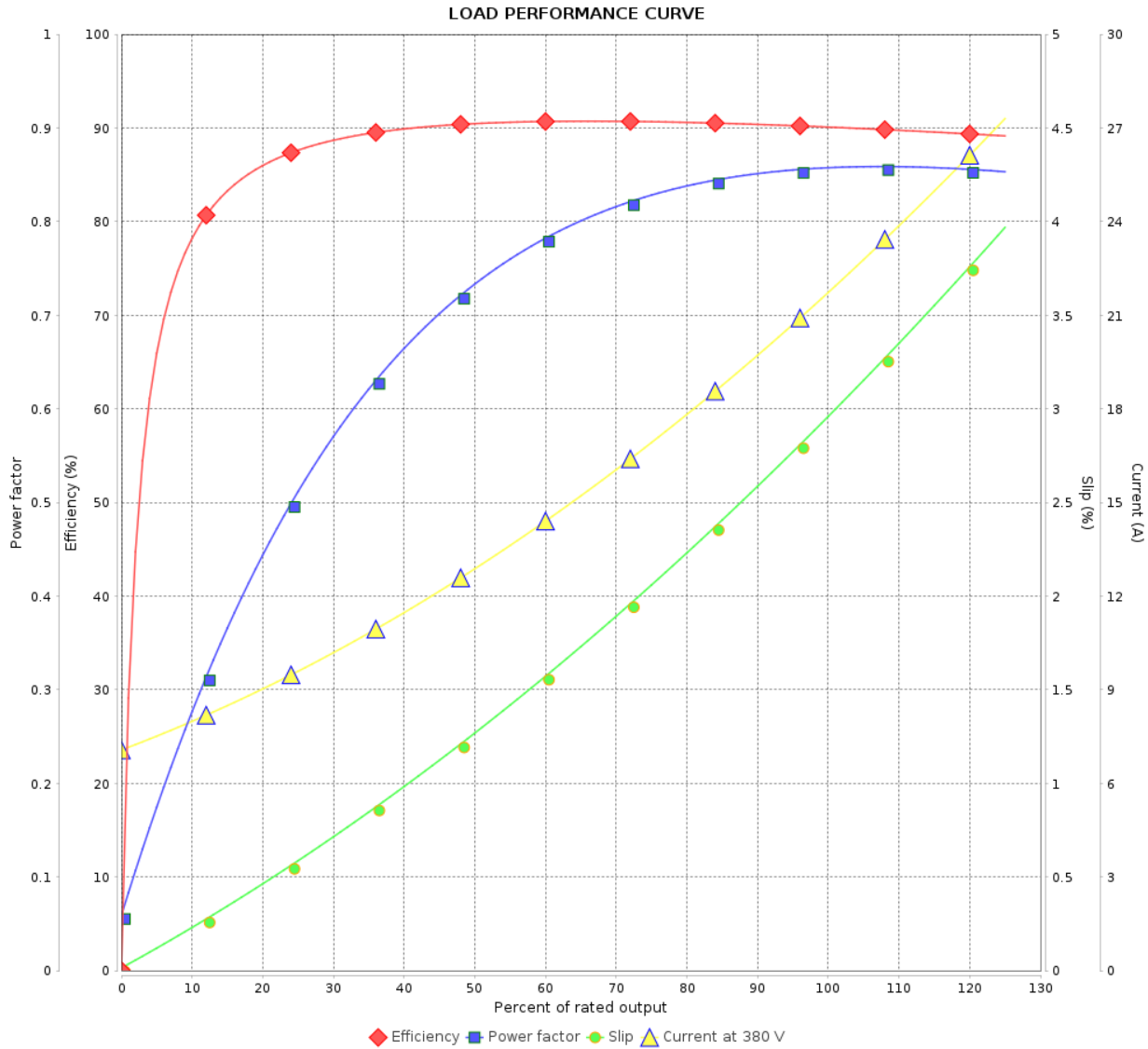


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Performance : 380 V 50 Hz 4P IE2

Rated current	: 21.5 A	Moment of inertia (J)	: 2.62 sq.ft.lb
LRC	: 4.9	Duty cycle	: Cont.(S1)
Rated torque	: 54.1 ft.lb	Insulation class	: F
Locked rotor torque	: 160 %	Service factor	: 1.00
Breakdown torque	: 200 %	Temperature rise	: 80 K
Rated speed	: 1455 rpm	Design	: B

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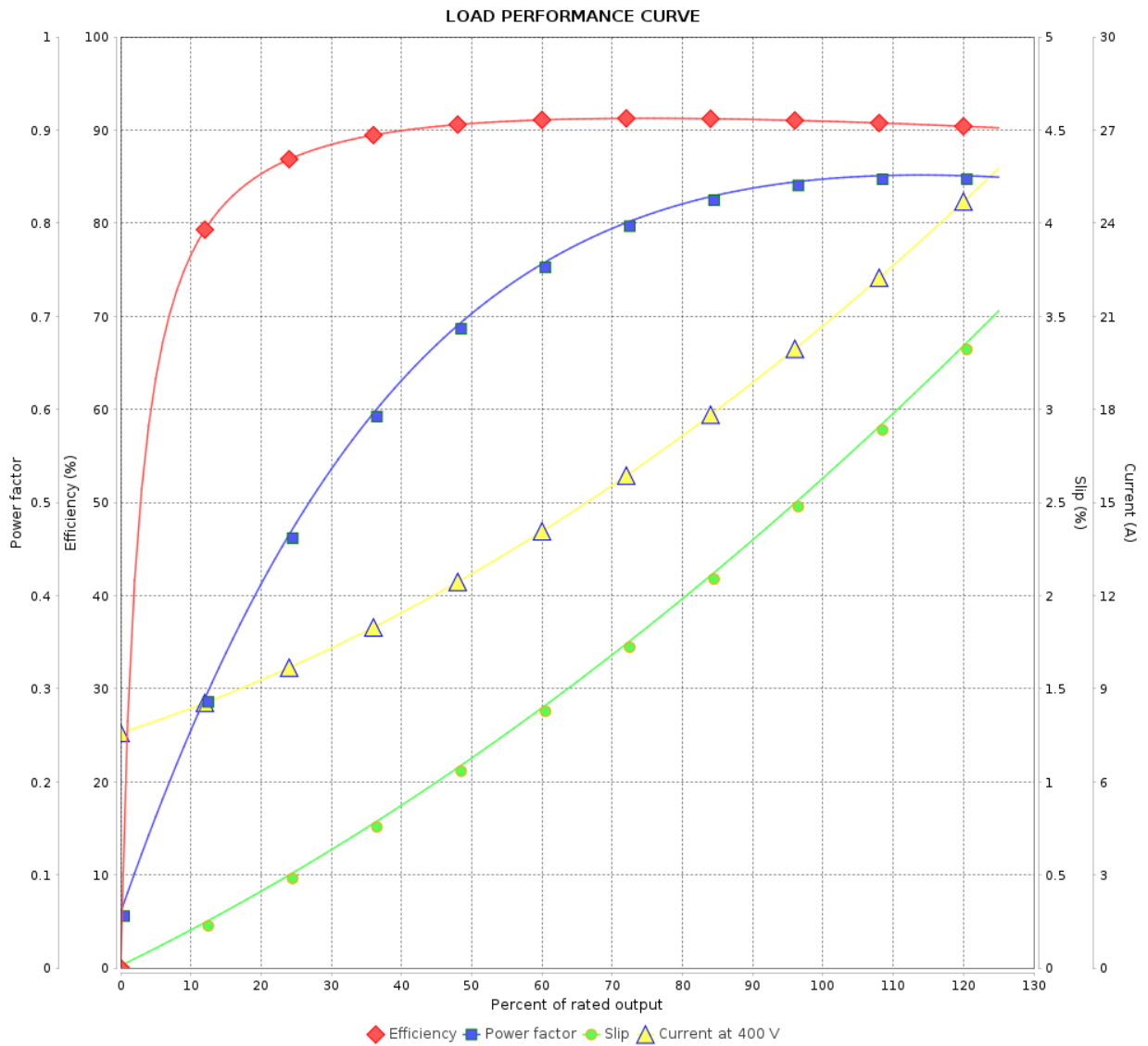


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Product code : 16689836

Catalog # : 01518ST3QAP254T-W22



Performance : 400 V 50 Hz 4P IE2

Rated current : 20.5 A
 LRC : 5.4
 Rated torque : 54.0 ft.lb
 Locked rotor torque : 200 %
 Breakdown torque : 220 %
 Rated speed : 1460 rpm

Moment of inertia (J) : 2.62 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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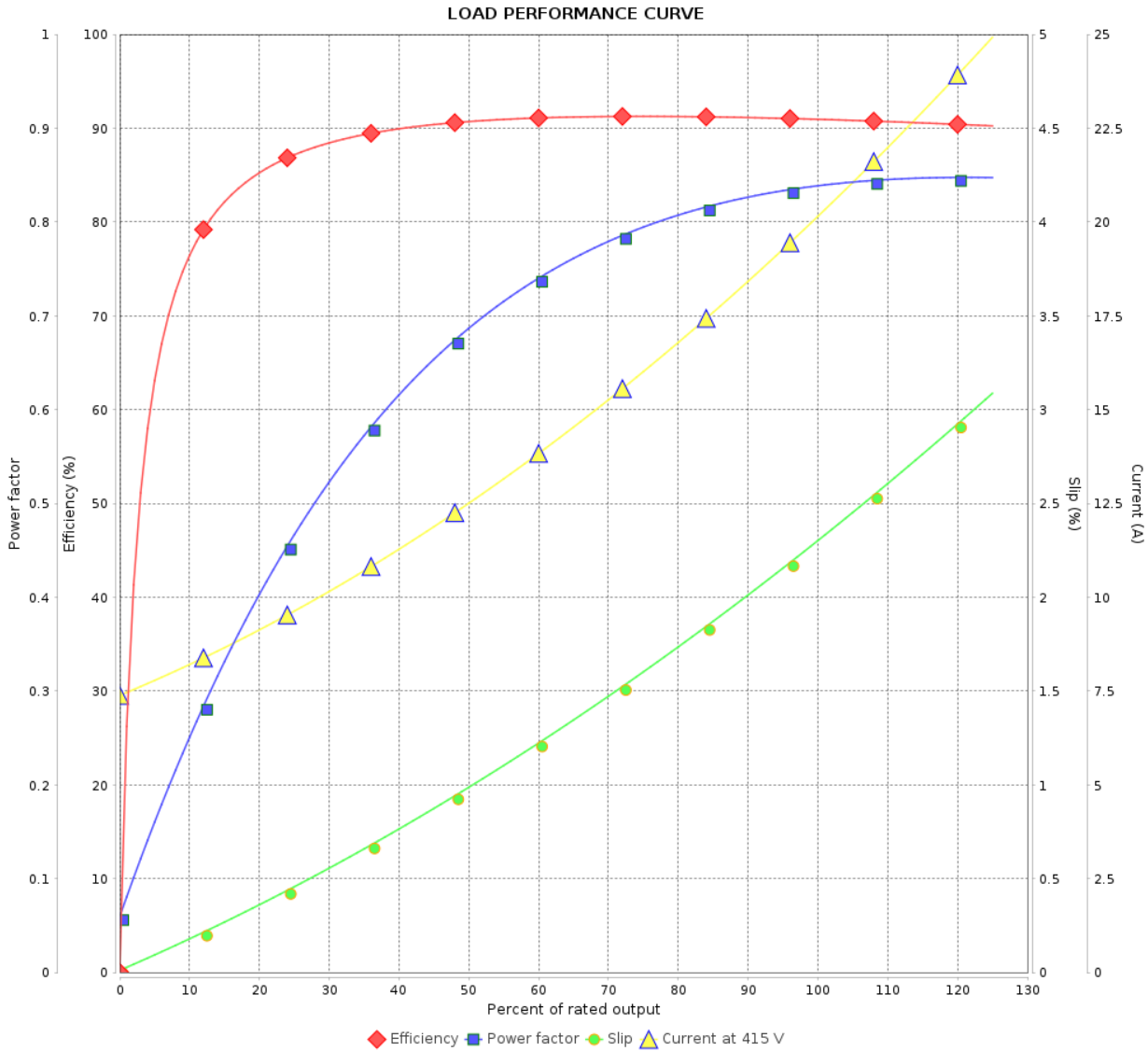


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Performance : 415 V 50 Hz 4P IE2

Rated current	: 20.0 A	Moment of inertia (J)	: 2.62 sq.ft.lb
LRC	: 5.9	Duty cycle	: Cont.(S1)
Rated torque	: 53.8 ft.lb	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.00
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 1465 rpm	Design	: B

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THERMAL LIMIT CURVE



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Performance : 460 V 60 Hz 4P

Rated current : 18.0 A	Moment of inertia (J) : 2.62 sq.ft.lb
LRC : 6.4	Duty cycle : Cont.(S1)
Rated torque : 44.6 ft.lb	Insulation class : F
Locked rotor torque : 240 %	Service factor : 1.15
Breakdown torque : 260 %	Temperature rise : 80 K
Rated speed : 1768 rpm	Design : B

Heating constant

Cooling constant

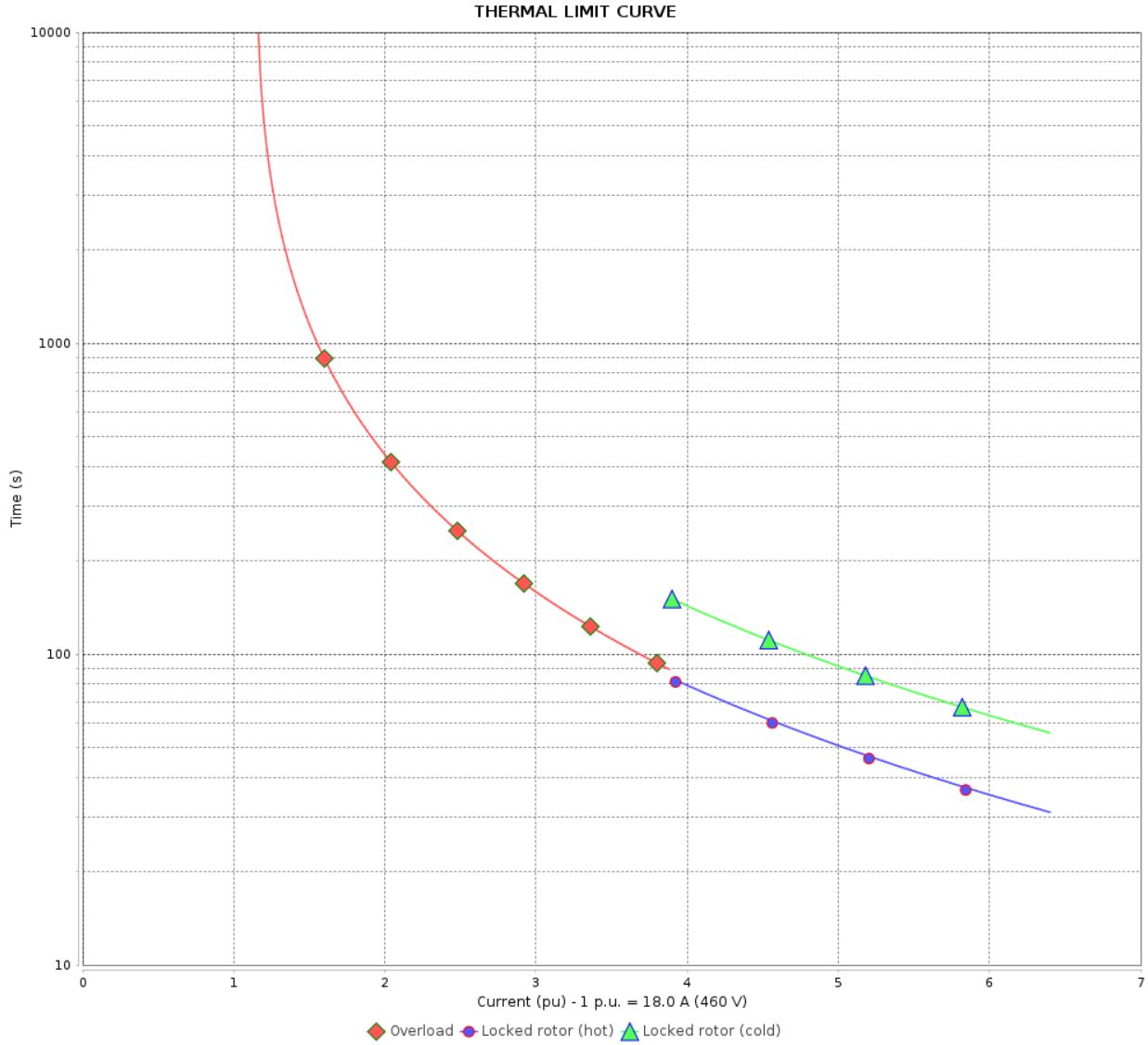
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Rated current : 15.2 A	Moment of inertia (J) : 2.62 sq.ft.lb
LRC : 7.2	Duty cycle : Cont.(S1)
Rated torque : 35.6 ft.lb	Insulation class : F
Locked rotor torque : 250 %	Service factor : 1.15
Breakdown torque : 300 %	Temperature rise : 80 K
Rated speed : 1475 rpm	Design : B

Heating constant

Cooling constant

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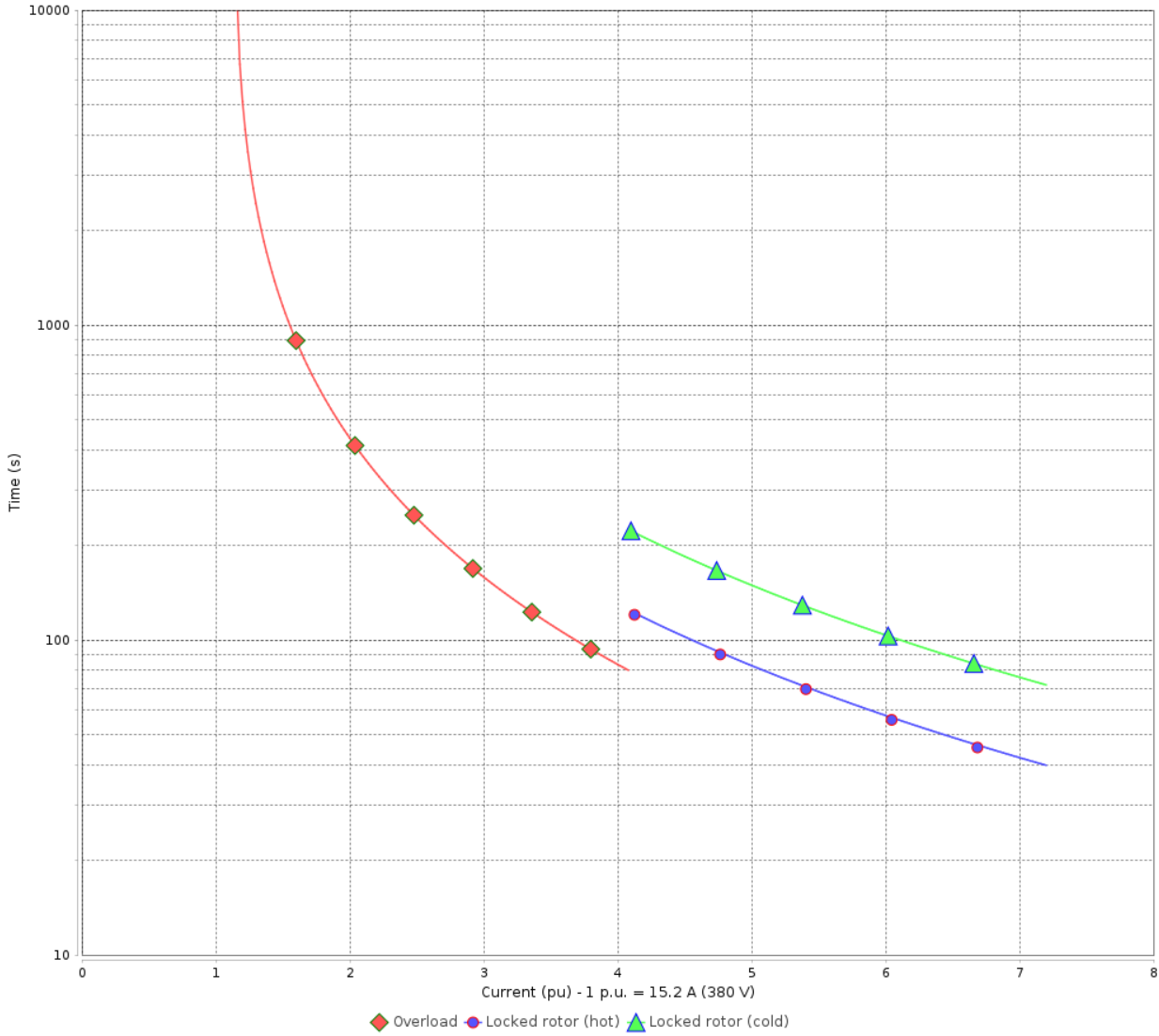
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Performance : 400 V 50 Hz 4P IE3

Rated current : 14.8 A	Moment of inertia (J) : 2.62 sq.ft.lb
LRC : 7.8	Duty cycle : Cont.(S1)
Rated torque : 35.5 ft.lb	Insulation class : F
Locked rotor torque : 280 %	Service factor : 1.15
Breakdown torque : 340 %	Temperature rise : 80 K
Rated speed : 1480 rpm	Design : B

Heating constant

Cooling constant

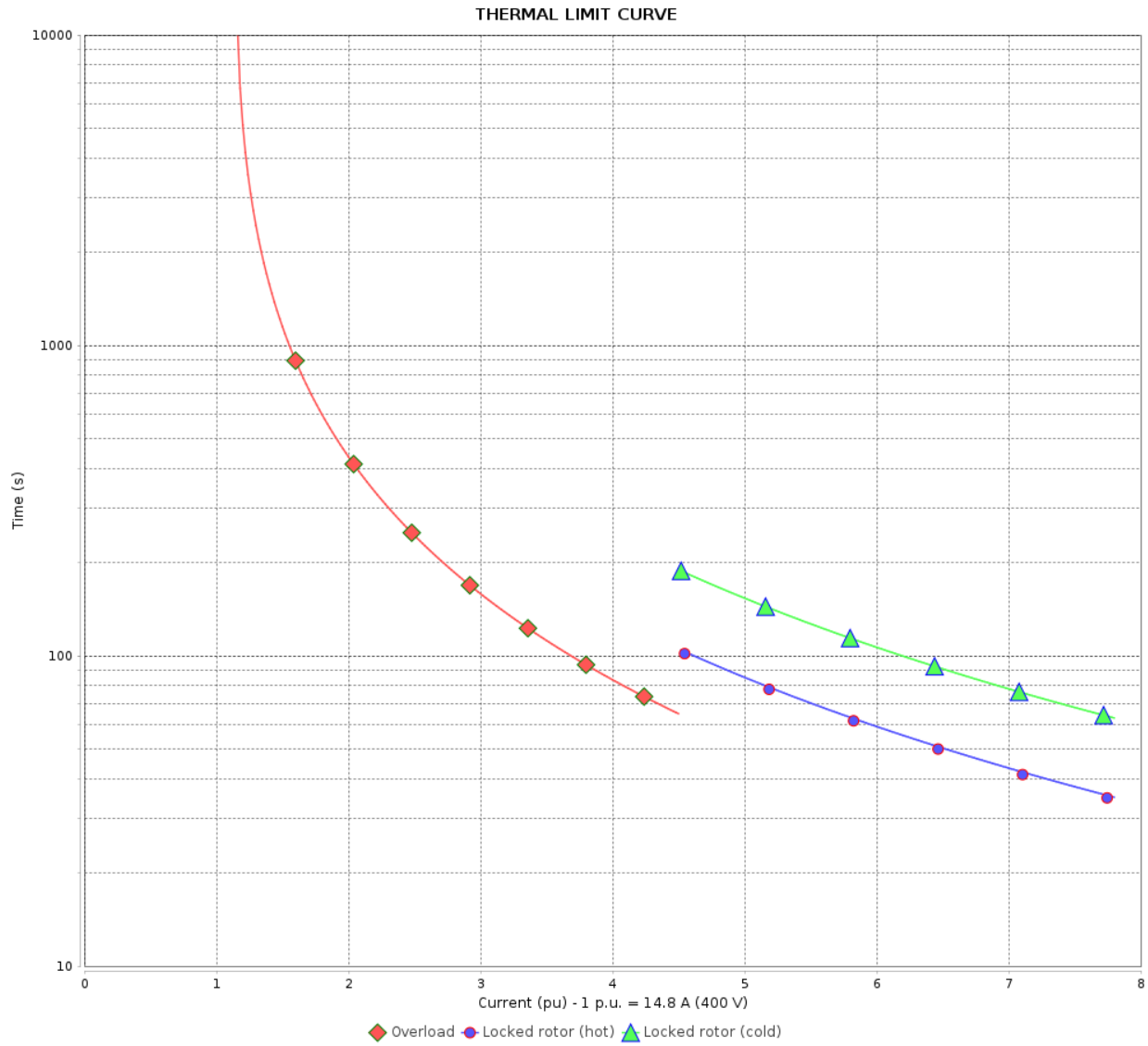
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Performance : 415 V 50 Hz 4P IE3

Rated current : 14.5 A
LRC : 8.3
Rated torque : 35.5 ft.lb
Locked rotor torque : 310 %
Breakdown torque : 370 %
Rated speed : 1480 rpm

Moment of inertia (J) : 2.62 sq.ft.lb
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Temperature rise : 80 K
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Heating constant

Cooling constant

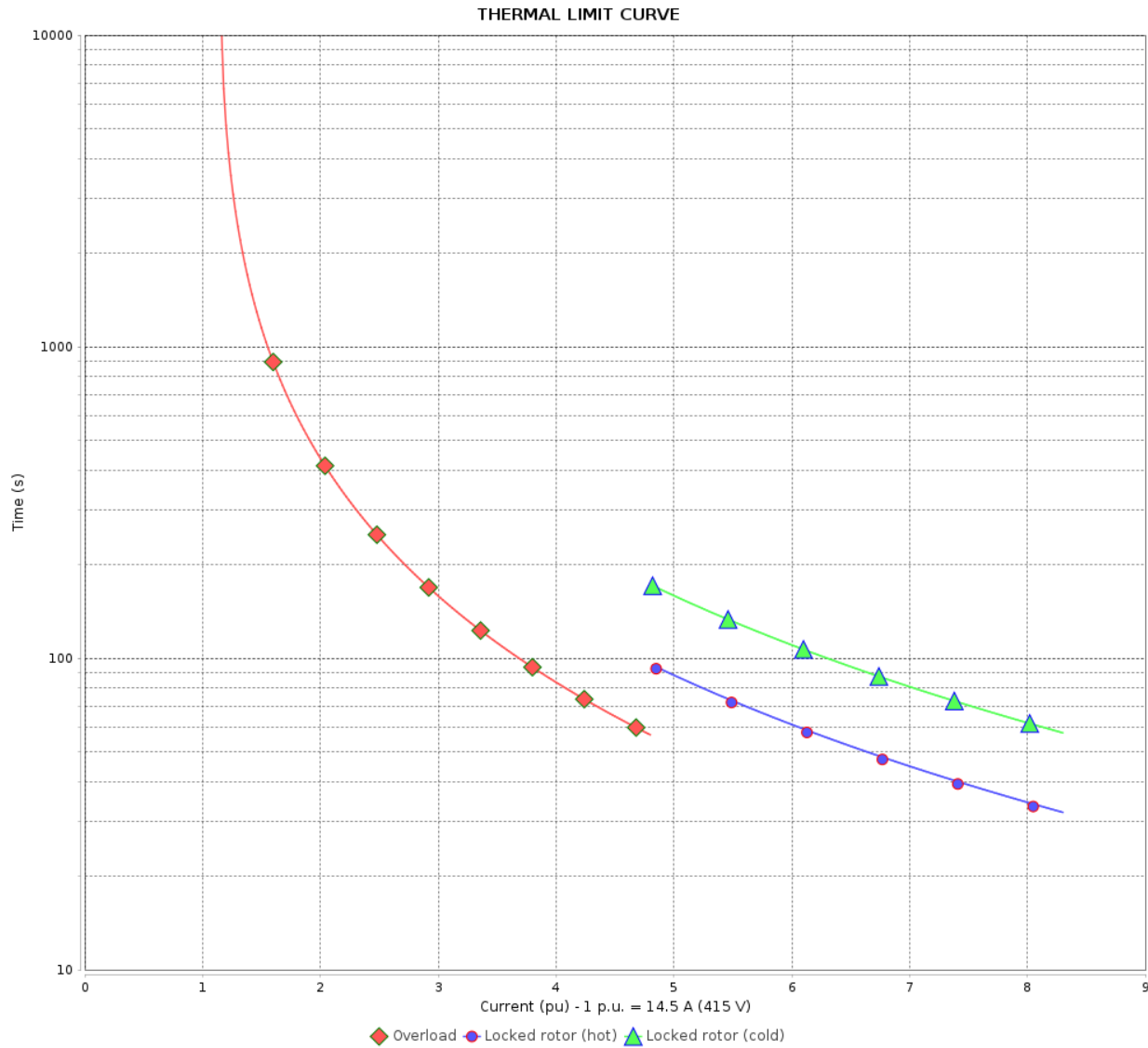
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Rated current : 21.5 A	Moment of inertia (J) : 2.62 sq.ft.lb
LRC : 4.9	Duty cycle : Cont.(S1)
Rated torque : 54.1 ft.lb	Insulation class : F
Locked rotor torque : 160 %	Service factor : 1.00
Breakdown torque : 200 %	Temperature rise : 80 K
Rated speed : 1455 rpm	Design : B

Heating constant

Cooling constant

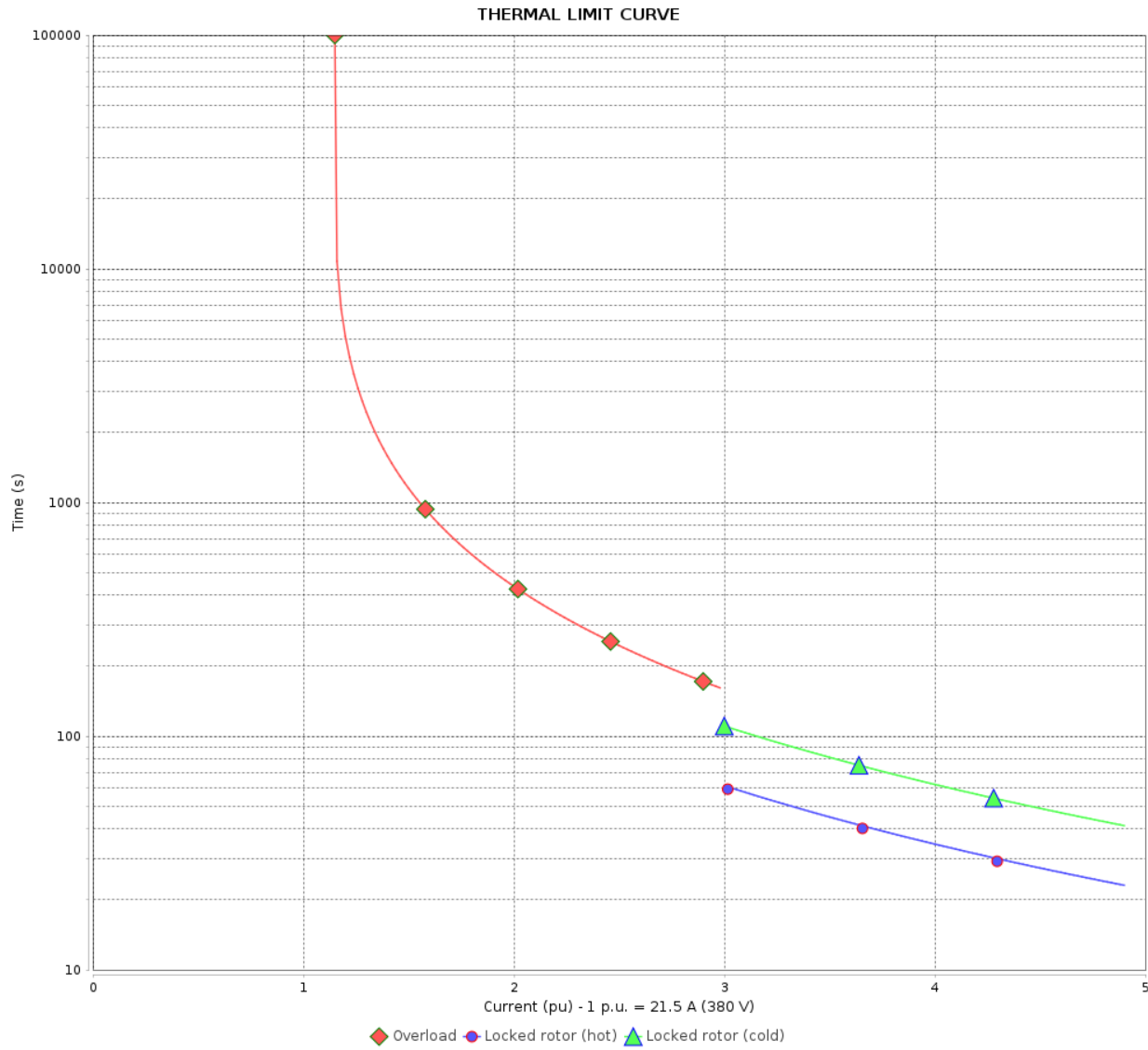
Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page	Revision
Checked by				
Date	04/10/2023	25 / 37		

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 : 16689836
 Catalog # : 01518ST3QAP254T-W22

Performance : 400 V 50 Hz 4P IE2

Rated current : 20.5 A	Moment of inertia (J) : 2.62 sq.ft.lb
LRC : 5.4	Duty cycle : Cont.(S1)
Rated torque : 54.0 ft.lb	Insulation class : F
Locked rotor torque : 200 %	Service factor : 1.00
Breakdown torque : 220 %	Temperature rise : 80 K
Rated speed : 1460 rpm	Design : B

Heating constant

Cooling constant

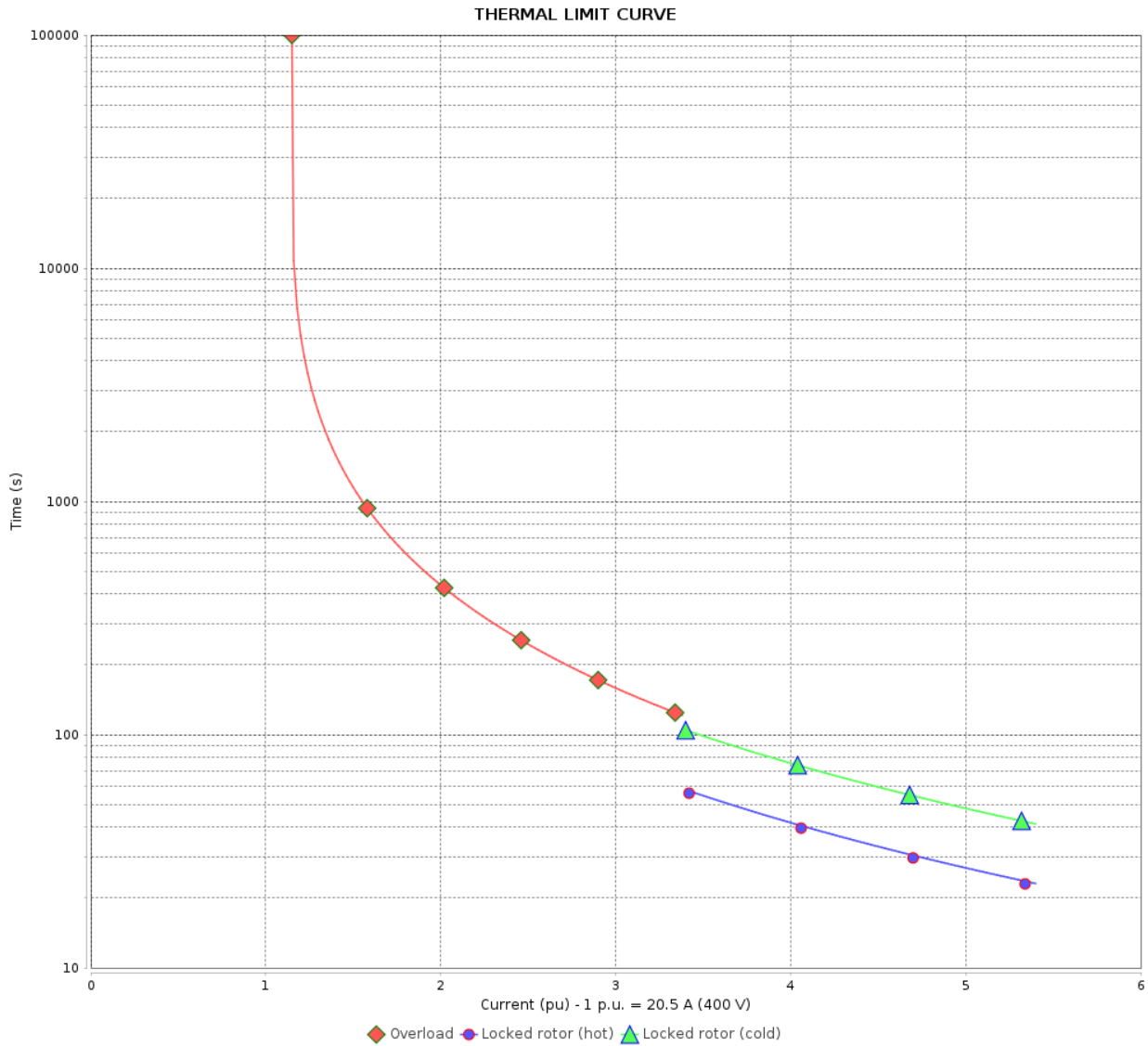
Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page	Revision
Checked by				
Date	04/10/2023	27 / 37		

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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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 : 16689836
 Catalog # : 01518ST3QAP254T-W22

Performance : 415 V 50 Hz 4P IE2

Rated current : 20.0 A	Moment of inertia (J) : 2.62 sq.ft.lb
LRC : 5.9	Duty cycle : Cont.(S1)
Rated torque : 53.8 ft.lb	Insulation class : F
Locked rotor torque : 210 %	Service factor : 1.00
Breakdown torque : 240 %	Temperature rise : 80 K
Rated speed : 1465 rpm	Design : B

Heating constant

Cooling constant

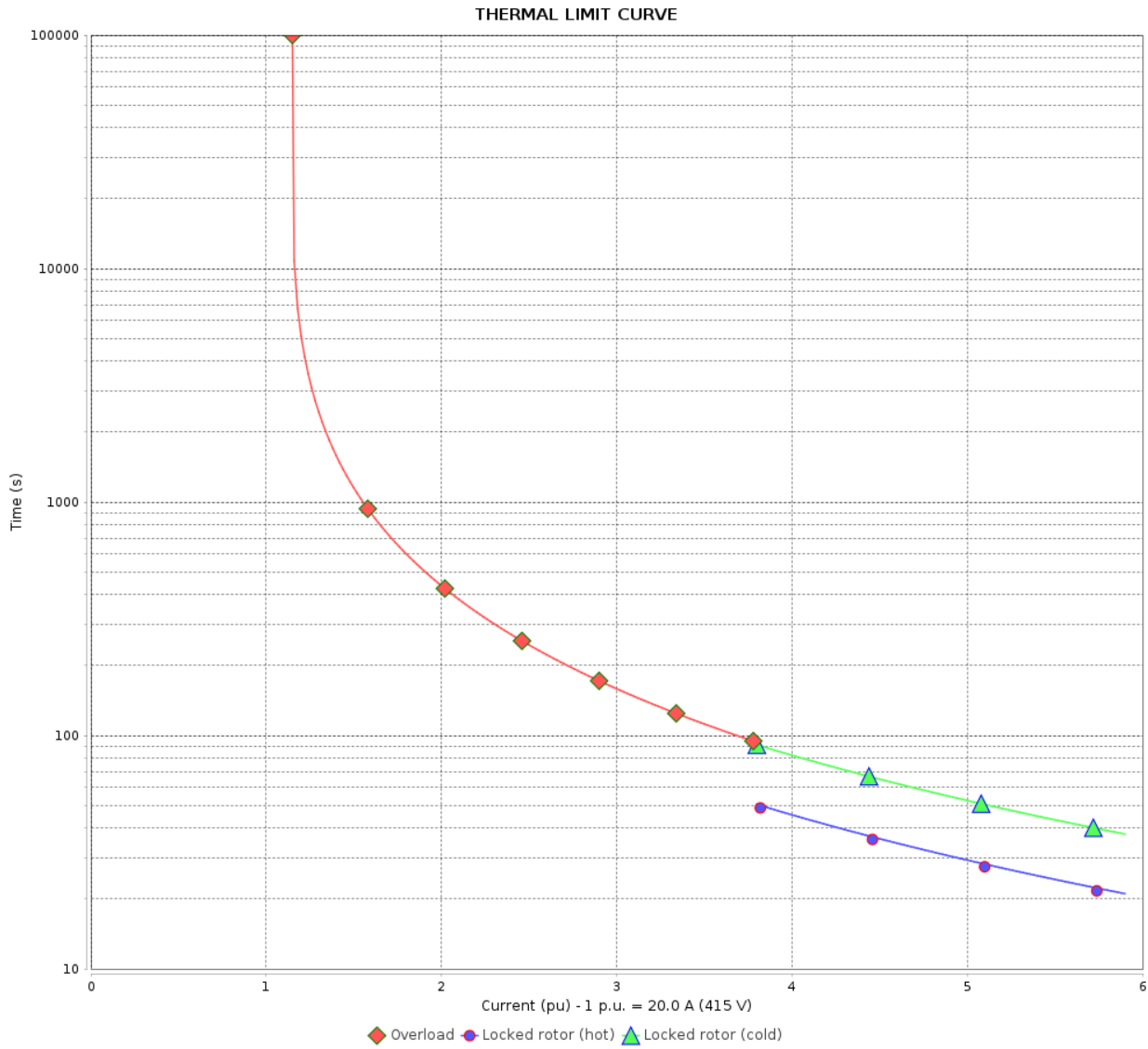
Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page	Revision
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Date	04/10/2023	29 / 37		

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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Checked by		30 / 37		
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

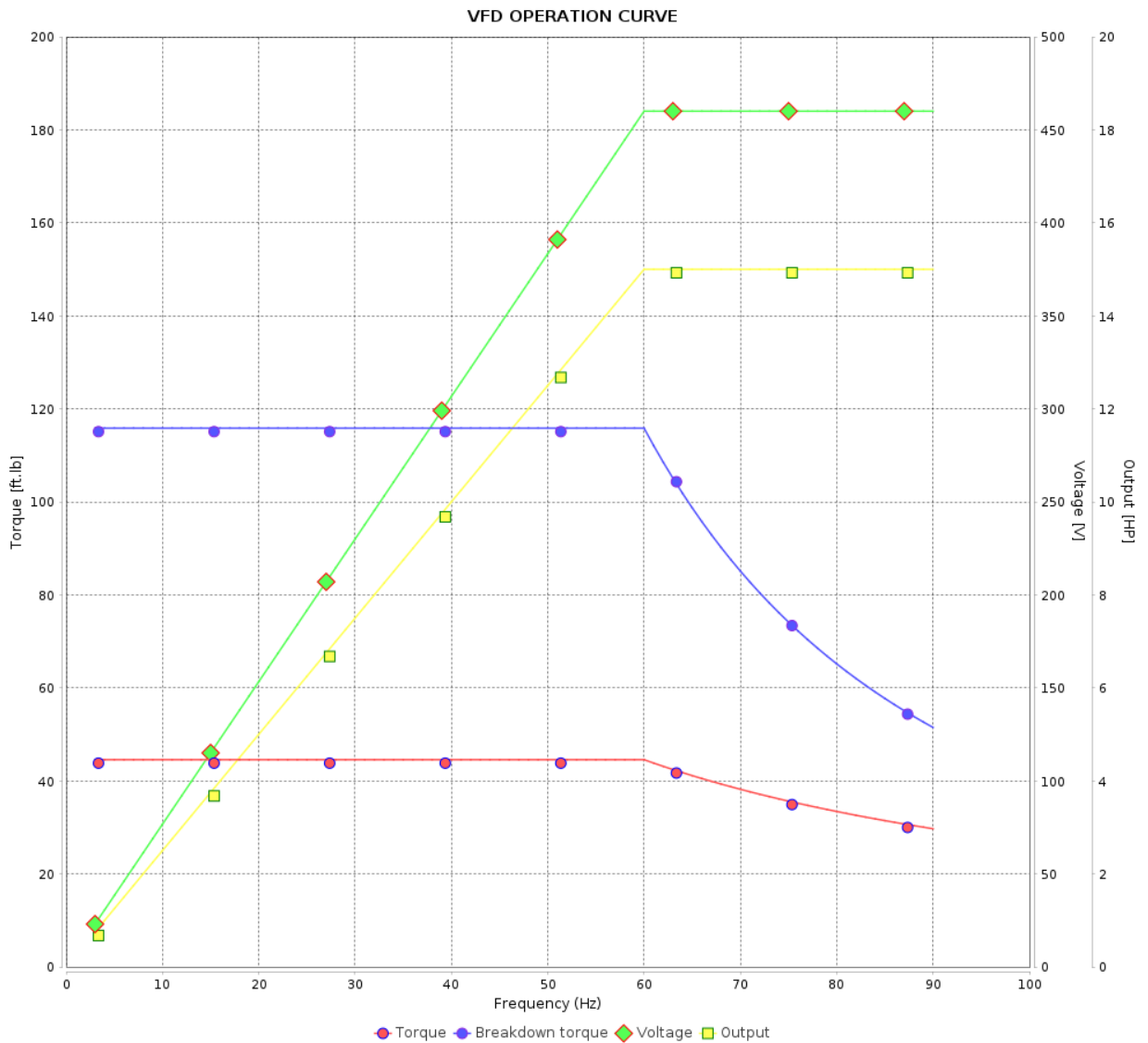


Customer :

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

Product code : 16689836

Catalog # : 01518ST3QAP254T-W22



Performance : 460 V 60 Hz 4P

Rated current : 18.0 A
 LRC : 6.4
 Rated torque : 44.6 ft.lb
 Locked rotor torque : 240 %
 Breakdown torque : 260 %
 Rated speed : 1768 rpm

Moment of inertia (J) : 2.62 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



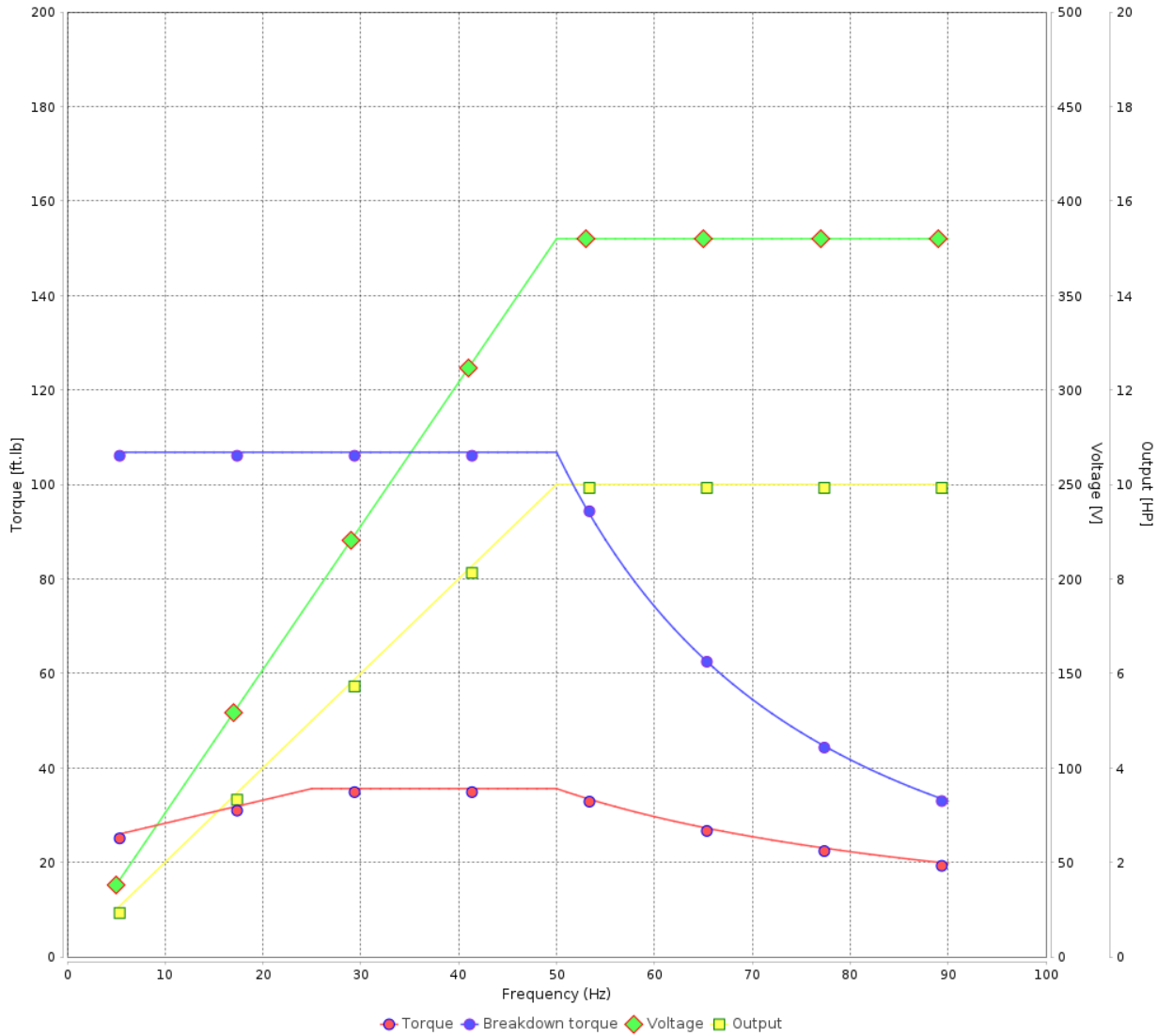
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Product line : W22 IEEE 841 NEMA Premium Efficiency
Three-Phase

Product code : 16689836

Catalog # : 01518ST3QAP254T-W22

VFD OPERATION CURVE



Performance : 380 V 50 Hz 4P IE3

Rated current : 15.2 A
LRC : 7.2
Rated torque : 35.6 ft.lb
Locked rotor torque : 250 %
Breakdown torque : 300 %
Rated speed : 1475 rpm

Moment of inertia (J) : 2.62 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

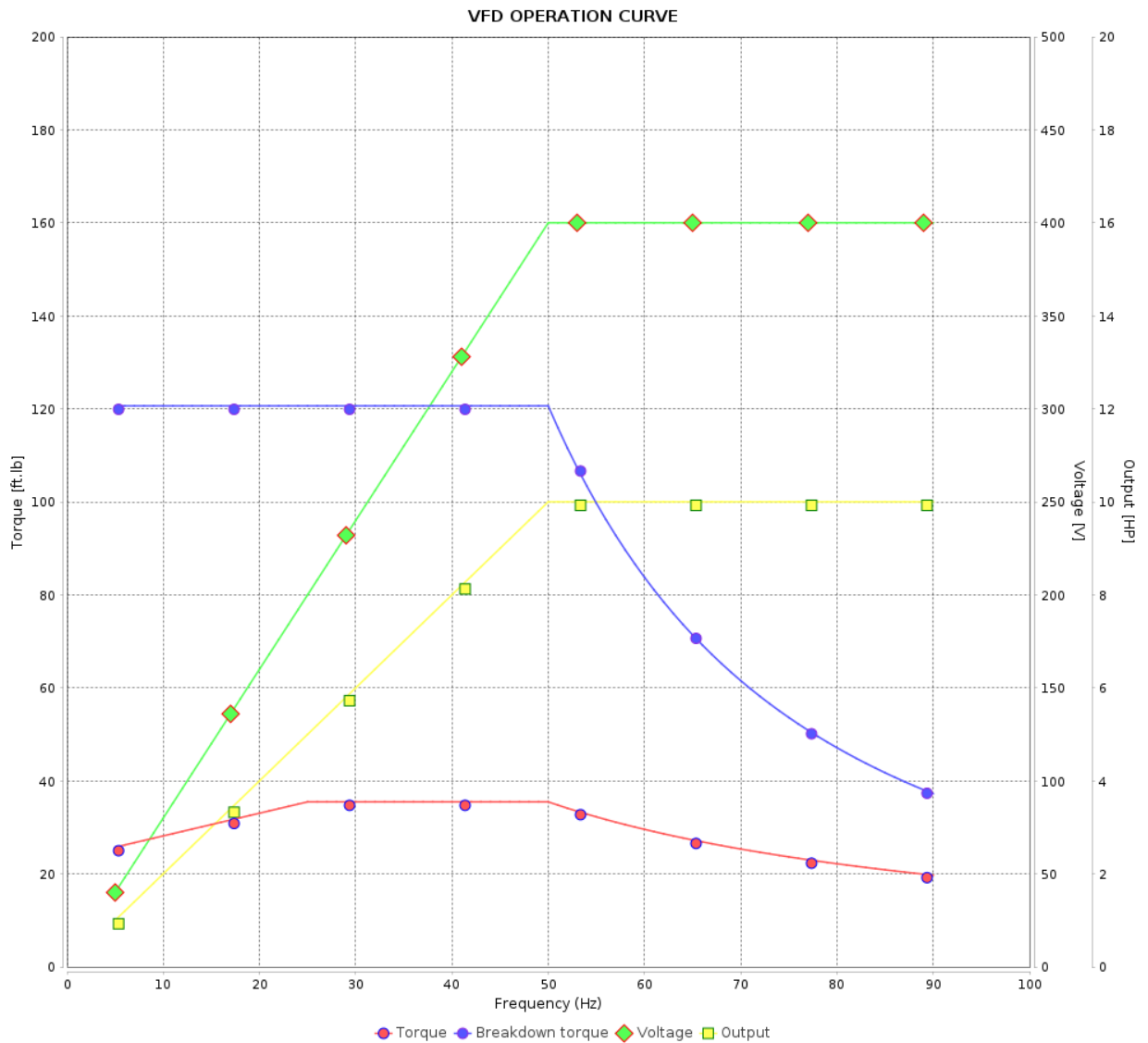


Customer :

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

Product code : 16689836

Catalog # : 01518ST3QAP254T-W22



Performance : 400 V 50 Hz 4P IE3

Rated current : 14.8 A
 LRC : 7.8
 Rated torque : 35.5 ft.lb
 Locked rotor torque : 280 %
 Breakdown torque : 340 %
 Rated speed : 1480 rpm

Moment of inertia (J) : 2.62 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

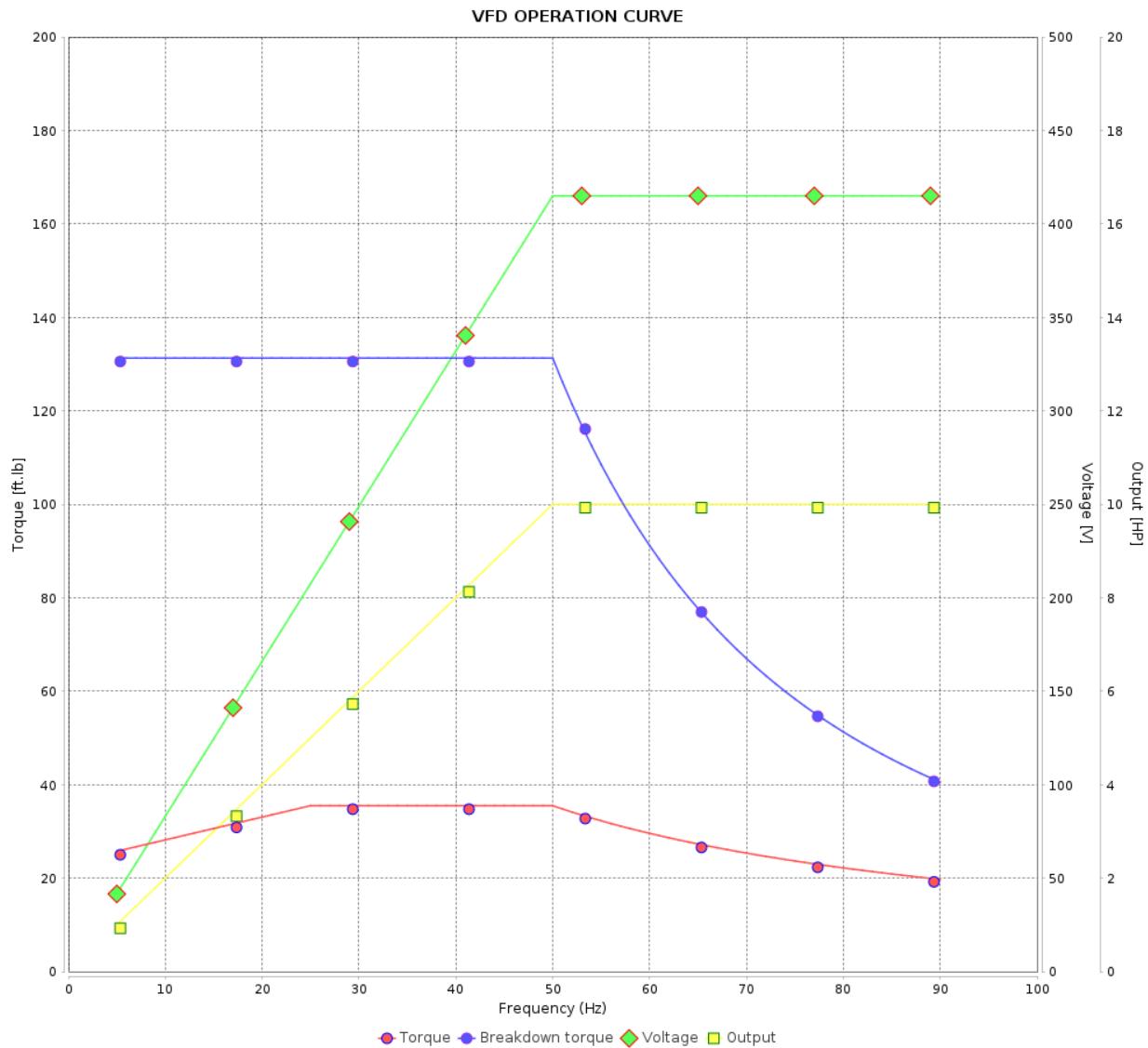


Customer :

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

Product code : 16689836

Catalog # : 01518ST3QAP254T-W22



Performance : 415 V 50 Hz 4P IE3

Rated current	: 14.5 A	Moment of inertia (J)	: 2.62 sq.ft.lb
LRC	: 8.3	Duty cycle	: Cont.(S1)
Rated torque	: 35.5 ft.lb	Insulation class	: F
Locked rotor torque	: 310 %	Service factor	: 1.15
Breakdown torque	: 370 %	Temperature rise	: 80 K
Rated speed	: 1480 rpm	Design	: B

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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

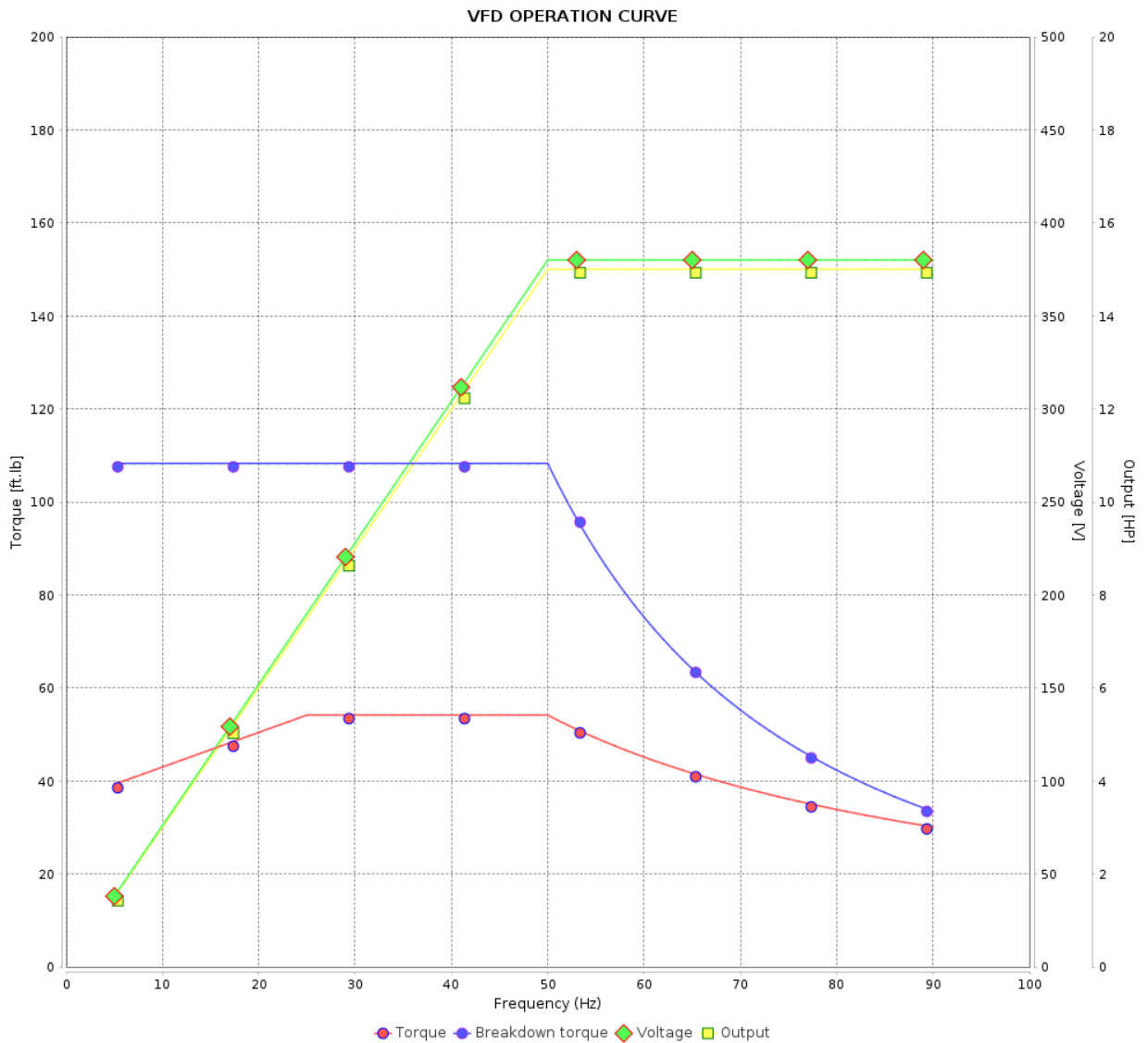


Customer :

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

Product code : 16689836

Catalog # : 01518ST3QAP254T-W22



Performance : 380 V 50 Hz 4P IE2

Rated current : 21.5 A
 LRC : 4.9
 Rated torque : 54.1 ft.lb
 Locked rotor torque : 160 %
 Breakdown torque : 200 %
 Rated speed : 1455 rpm

Moment of inertia (J) : 2.62 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



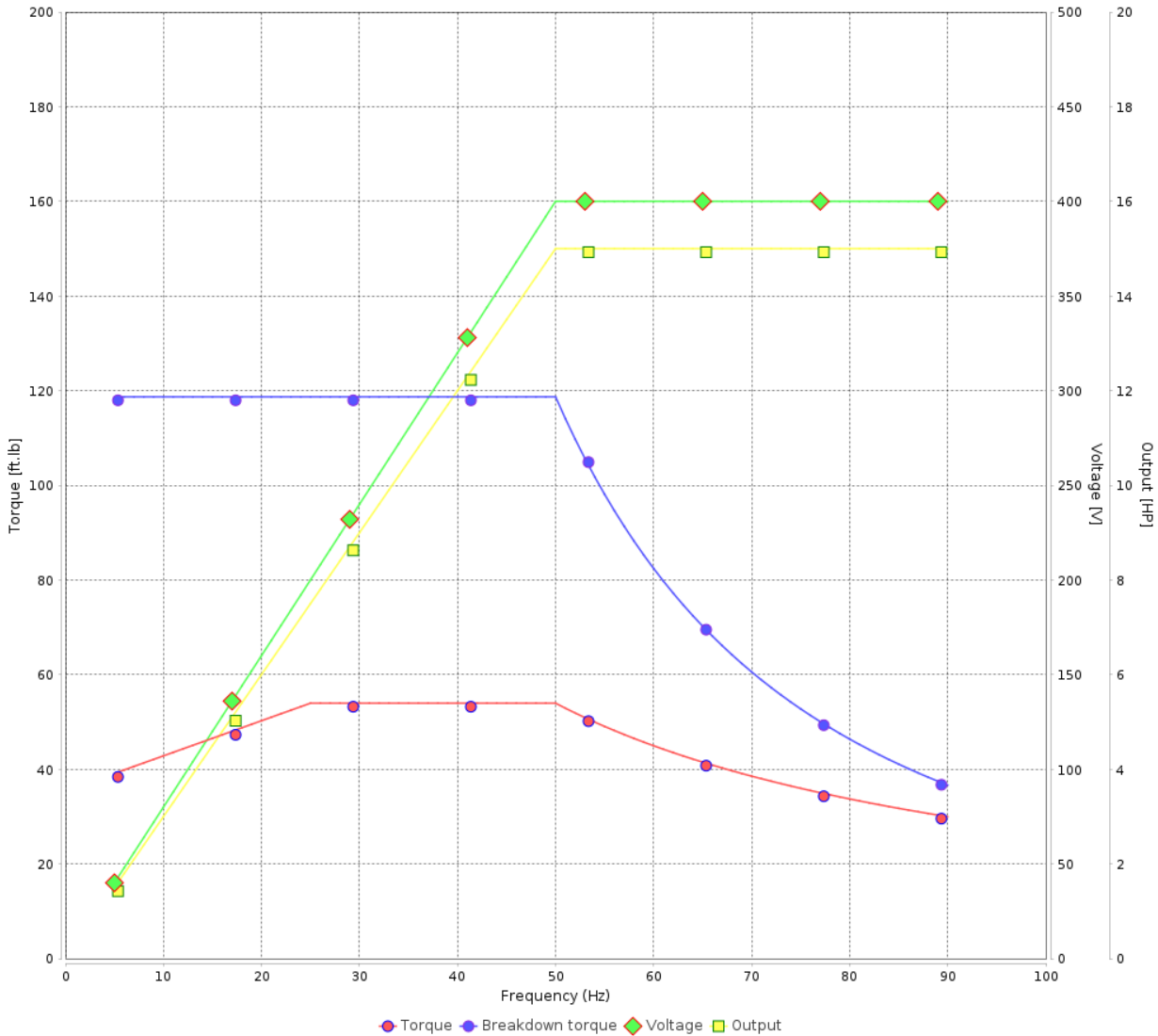
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Catalog # : 01518ST3QAP254T-W22

VFD OPERATION CURVE



Performance : 400 V 50 Hz 4P IE2

Rated current : 20.5 A
 LRC : 5.4
 Rated torque : 54.0 ft.lb
 Locked rotor torque : 200 %
 Breakdown torque : 220 %
 Rated speed : 1460 rpm

Moment of inertia (J) : 2.62 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

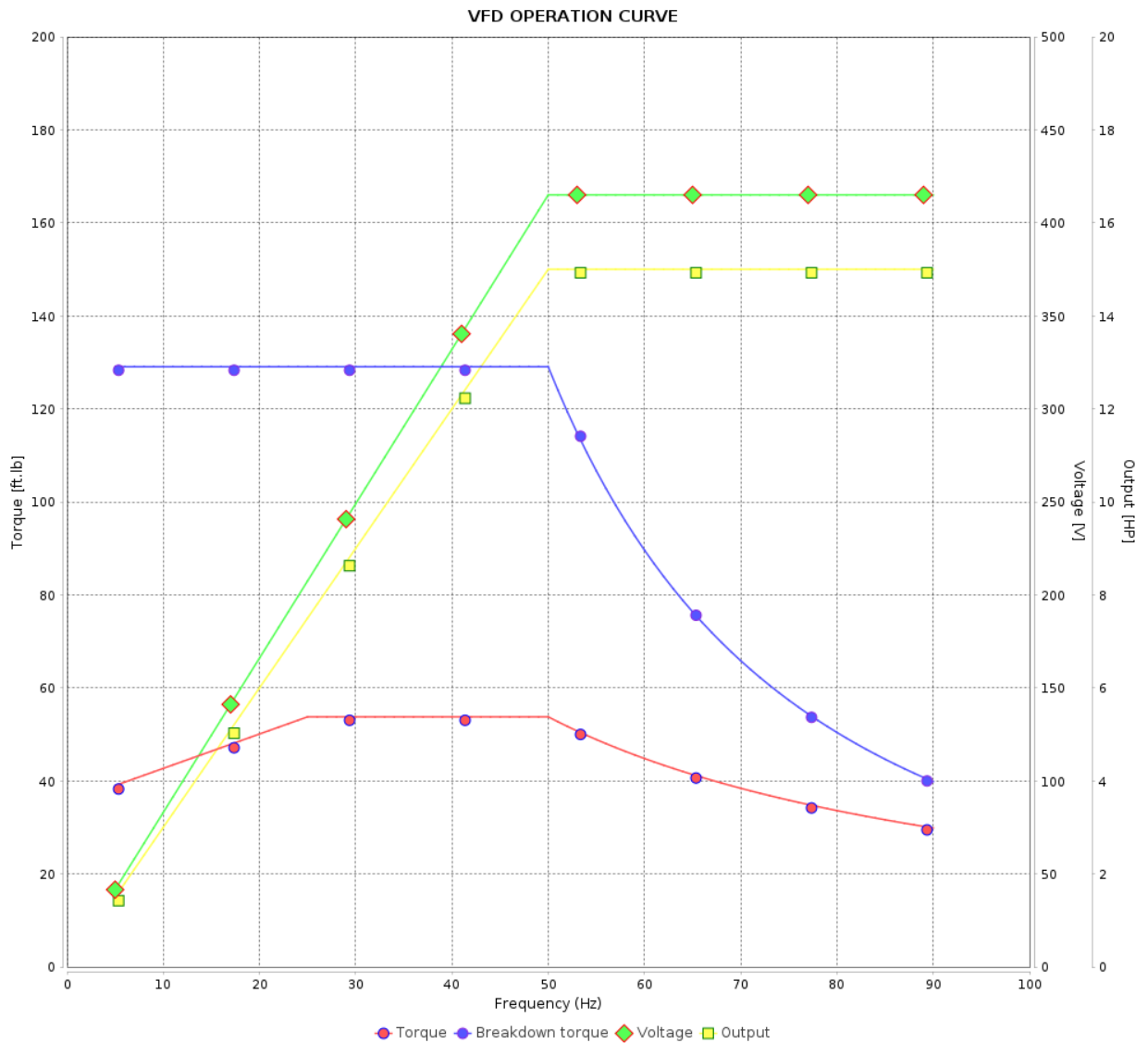


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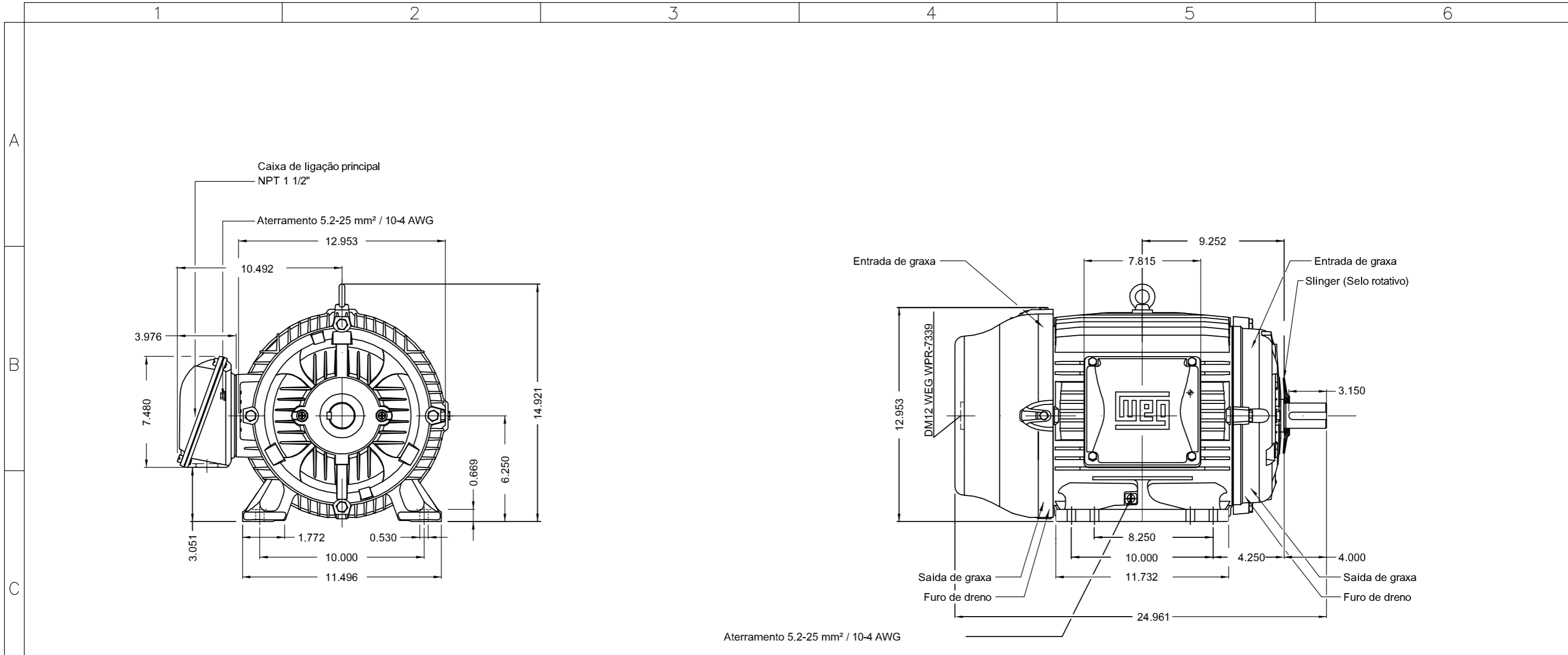



Performance : 415 V 50 Hz 4P IE2

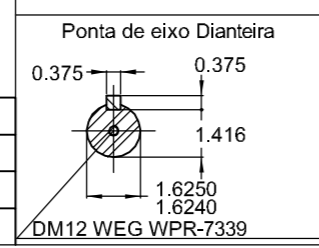
Rated current : 20.0 A
 LRC : 5.9
 Rated torque : 53.8 ft.lb
 Locked rotor torque : 210 %
 Breakdown torque : 240 %
 Rated speed : 1465 rpm

Moment of inertia (J) : 2.62 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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15 HP 04 Polos 60 Hz					
WEG HOUSE ACCOUNT MOTORS					
500002215990		ZZ 420270286	JACKSONHM	FRANCINES	FRANCINES
500002208749		PCR 100000146151	RBOECK	FRANCINES	FRANCINES
ECM	LOC	RESUMO MODIFICAÇÃO	EXECUTADO	VERIFICADO	LIBERADO
EXECUTOR	SCARMAGNANI	MOTOR TRIF. W22 NEMA P. EFF. IEEEE841	10009788994		
VERIFICADOR	SCARMAGNANI	CARÇAÇA 254/6T IP56 TEFC	000 02		
LIBERADOR	MARLONB				
DATA LB.	09.06.2022	WMO JARAGUA DO SUL			



Placa de identificação com marcação especial
Saida de graxa conforme IEEEE841
Forma construtiva NEMA W-8
Forma construtiva V6D

CÓPIA SEM CONTROLE

Dimensões em polegadas

LIBERADO

ZME A3