

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :								
Product line	: NEMA Premium Efficiency Three-Phase	Product code :	12424292					
		Catalog # :	01512ST3QIE284T-W22					
Frame	: 284/6T	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	: 413 lb					
Protection degree	: IP55	Moment of inertia (J)	: 7.85 sq.ft.lb					
Design	: B							
Output [HP]	15	10	10	10	15	15	15	
Poles	6	6	6	6	6	6	6	
Frequency [Hz]	60	50	50	50	50	50	50	
Rated voltage [V]	460	380	400	415	380	400	415	
Rated current [A]	17.9	15.5	15.1	14.9	22.0	20.9	20.2	
L. R. Amperes [A]	115	112	119	124	103	111	115	
LRC [A]	6.4x(Code G)	7.2x(Code J)	7.9x(Code K)	8.3x(Code K)	4.7x(Code E)	5.3x(Code F)	5.7x(Code F)	
No load current [A]	7.00	7.00	7.40	7.70	7.00	7.40	7.70	
Rated speed [RPM]	1175	985	985	985	965	970	975	
Slip [%]	2.08	1.50	1.50	1.50	3.50	3.00	2.50	
Rated torque [ft.lb]	67.0	53.3	53.3	53.3	81.6	81.2	80.8	
Locked rotor torque [%]	229	270	300	330	170	200	220	
Breakdown torque [%]	260	300	340	360	210	229	250	
Service factor	1.25	1.25	1.25	1.25	1.00	1.15	1.15	
Temperature rise	80 K	80 K	80 K	80 K	80 K	80 K	80 K	
Locked rotor time	36s (cold) 20s (hot)	61s (cold) 34s (hot)	54s (cold) 30s (hot)	52s (cold) 29s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	
Noise level ²	59.0 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%	90.8	88.9	89.0	89.0	92.4	90.6	90.7
	50%	91.0	89.0	89.1	89.1	91.0	90.2	90.2
	75%	91.7	89.4	89.5	89.5	90.2	90.2	91.0
	100%	91.7	89.4	89.5	89.5	88.5	89.5	90.2
Power Factor	25%	0.44	0.39	0.36	0.34	0.50	0.47	0.45
	50%	0.69	0.64	0.61	0.58	0.75	0.72	0.70
	75%	0.80	0.76	0.73	0.71	0.84	0.82	0.81
	100%	0.84	0.82	0.80	0.78	0.86	0.85	0.84
Bearing type	: 6311 C3	6211 C3	Foundation loads					
Sealing	: Inpro/Seal	Inpro/Seal	Max. traction	: 674 lb				
Lubrication interval	: 20000 h	20000 h	Max. compression	: 1087 lb				
Lubricant amount	: 18 g	11 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



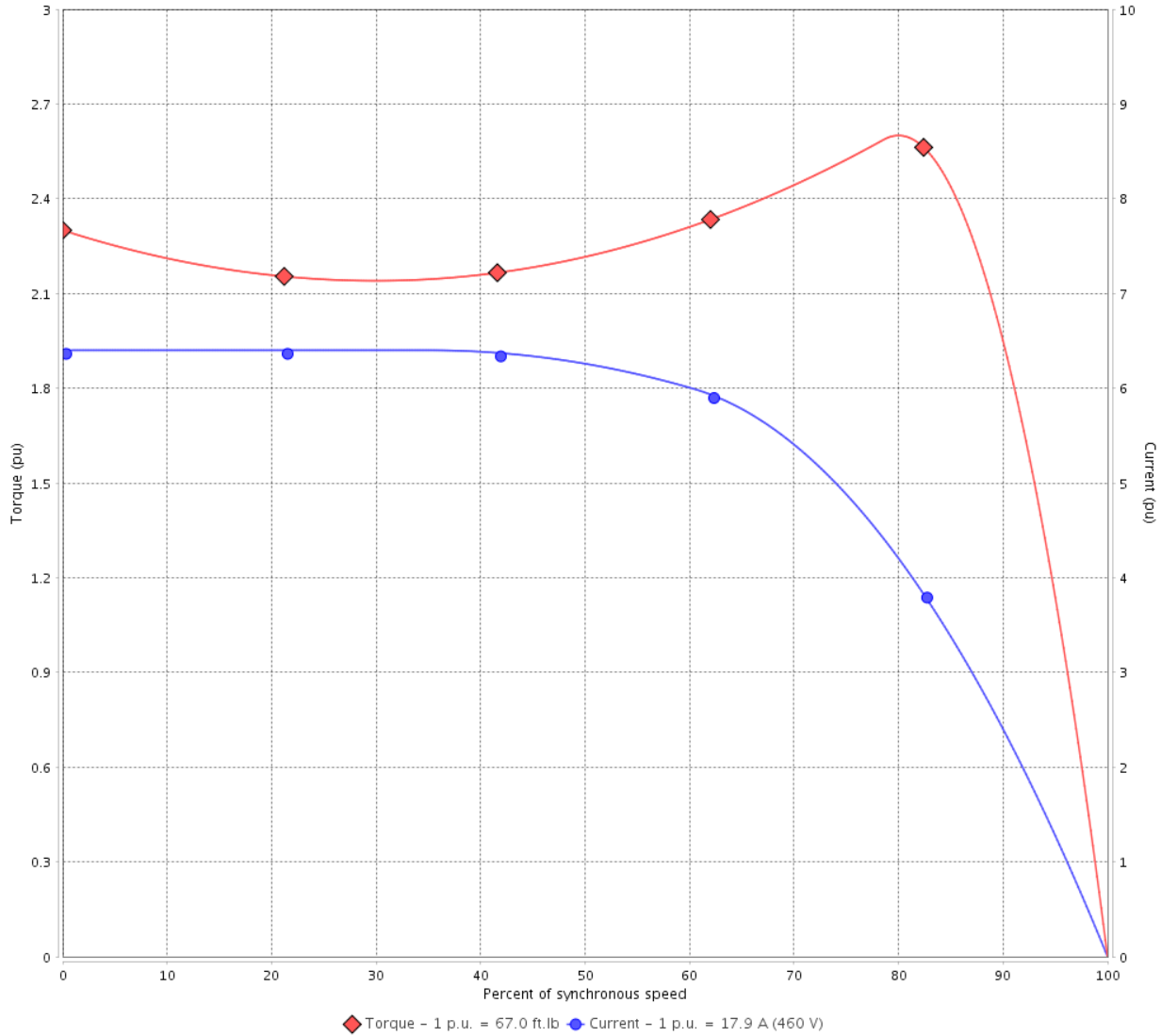
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12424292

Catalog # : 01512ST3QIE284T-W22

TORQUE AND CURRENT VS SPEED CURVE



Performance : 460 V 60 Hz 6P

Rated current	: 17.9 A	Moment of inertia (J)	: 7.85 sq.ft.lb
LRC	: 6.4	Duty cycle	: Cont.(S1)
Rated torque	: 67.0 ft.lb	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.25
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1175 rpm	Design	: B

Locked rotor time : 36s (cold) 20s (hot)

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TORQUE AND CURRENT VS SPEED CURVE



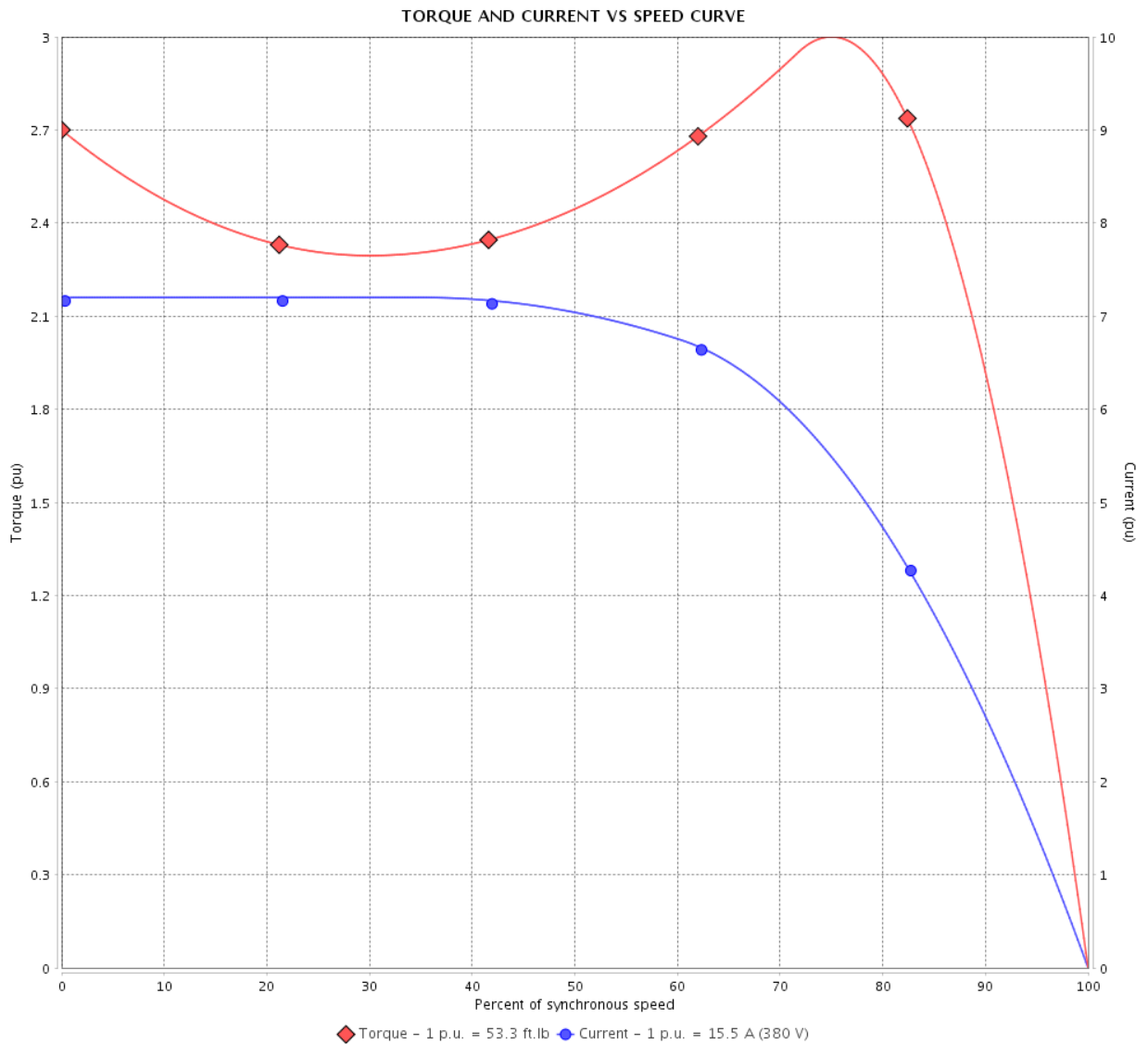
Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12424292

Catalog # : 01512ST3QIE284T-W22



Performance : 380 V 50 Hz 6P IE3

Rated current	: 15.5 A	Moment of inertia (J)	: 7.85 sq.ft.lb
LRC	: 7.2	Duty cycle	: Cont.(S1)
Rated torque	: 53.3 ft.lb	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.25
Breakdown torque	: 300 %	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



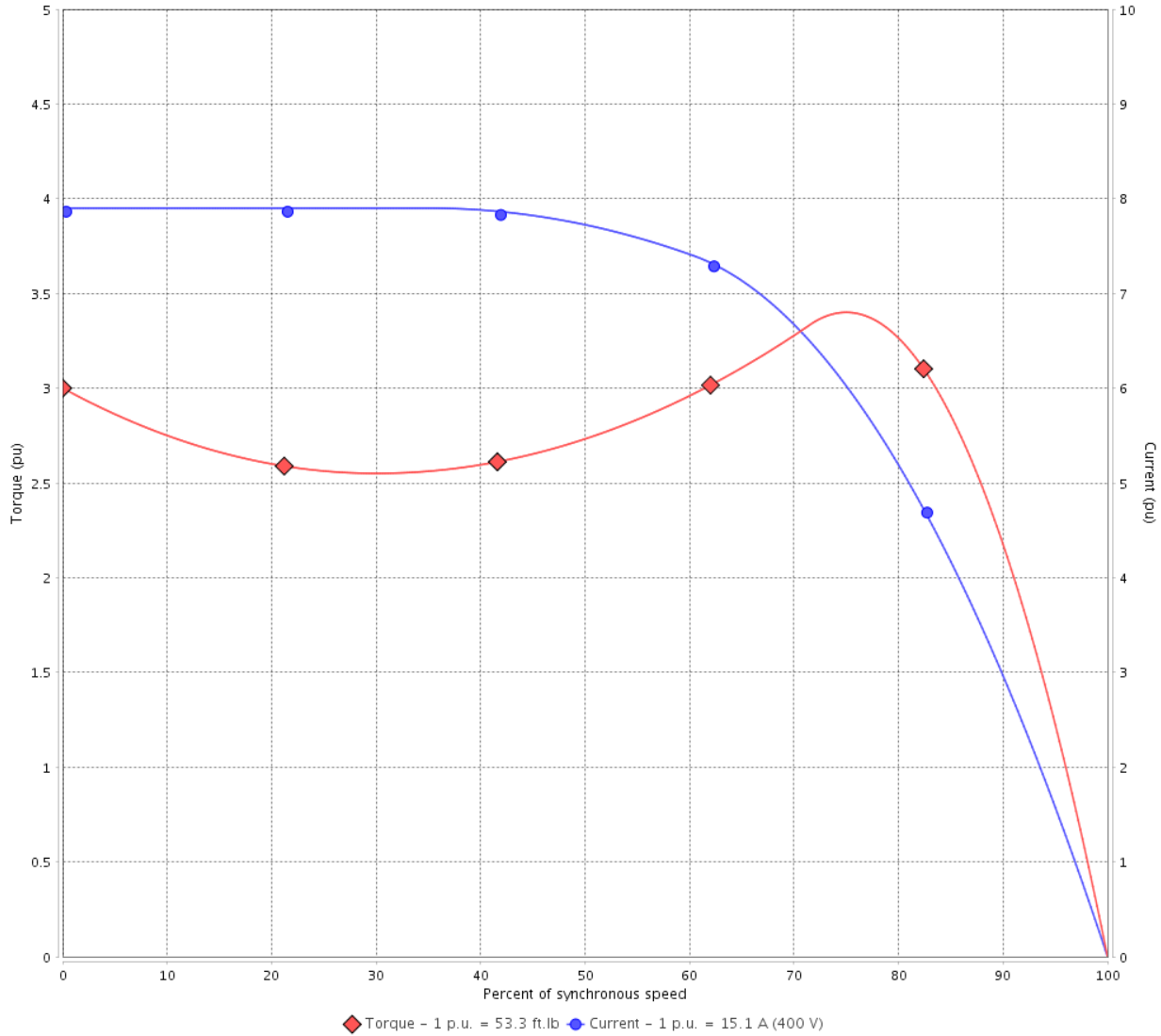
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12424292

Catalog # : 01512ST3QIE284T-W22

TORQUE AND CURRENT VS SPEED CURVE



Performance : 400 V 50 Hz 6P IE3

Rated current	: 15.1 A	Moment of inertia (J)	: 7.85 sq.ft.lb
LRC	: 7.9	Duty cycle	: Cont.(S1)
Rated torque	: 53.3 ft.lb	Insulation class	: F
Locked rotor torque	: 300 %	Service factor	: 1.25
Breakdown torque	: 340 %	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



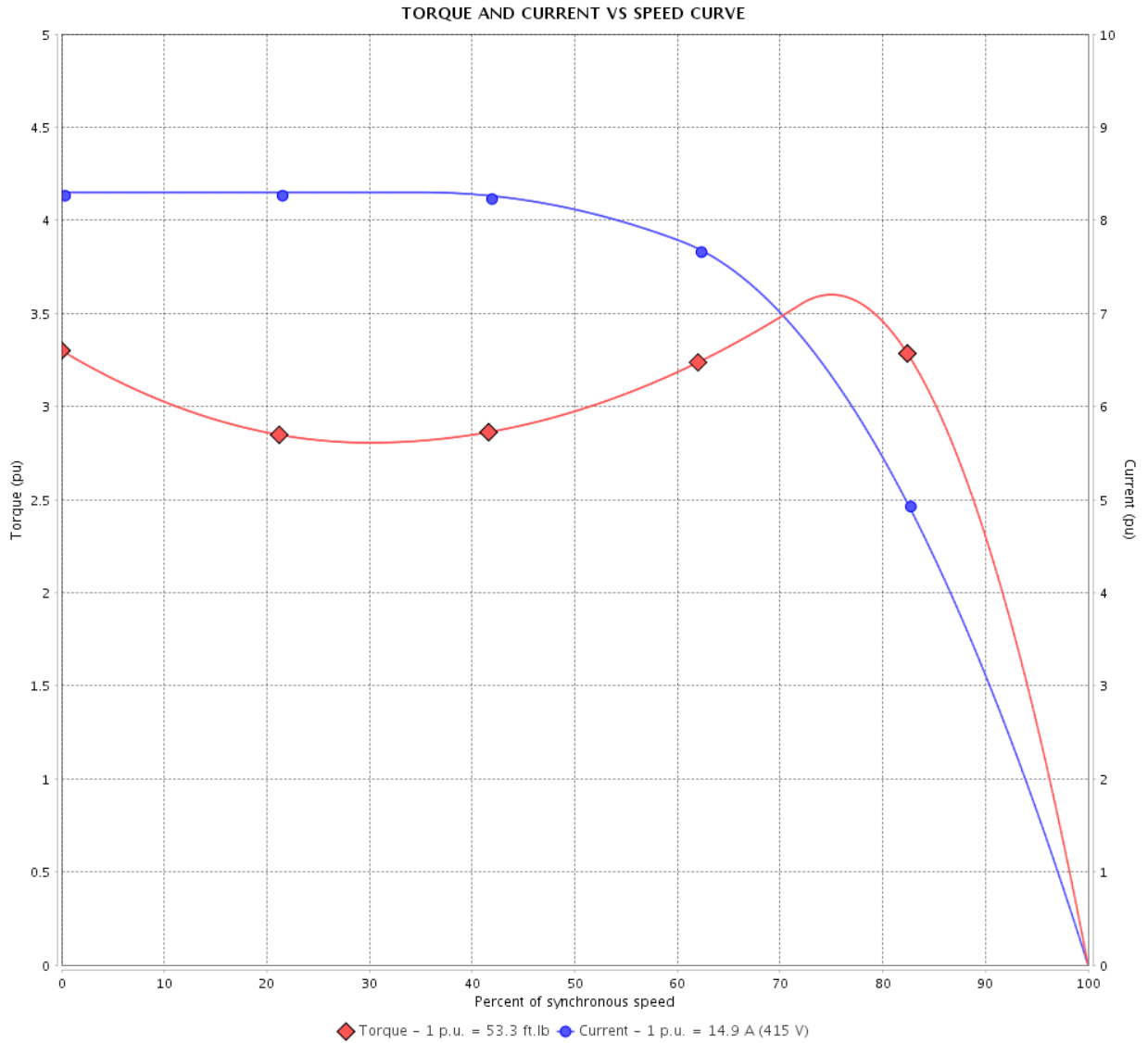
Three Phase Induction Motor - Squirrel Cage

Customer :

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Product code : 12424292

Catalog # : 01512ST3QIE284T-W22



Performance : 415 V 50 Hz 6P IE3

Rated current	: 14.9 A	Moment of inertia (J)	: 7.85 sq.ft.lb
LRC	: 8.3	Duty cycle	: Cont.(S1)
Rated torque	: 53.3 ft.lb	Insulation class	: F
Locked rotor torque	: 330 %	Service factor	: 1.25
Breakdown torque	: 360 %	Temperature rise	: 80 K
Rated speed	: 985 rpm	Design	: B

Locked rotor time : 52s (cold) 29s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



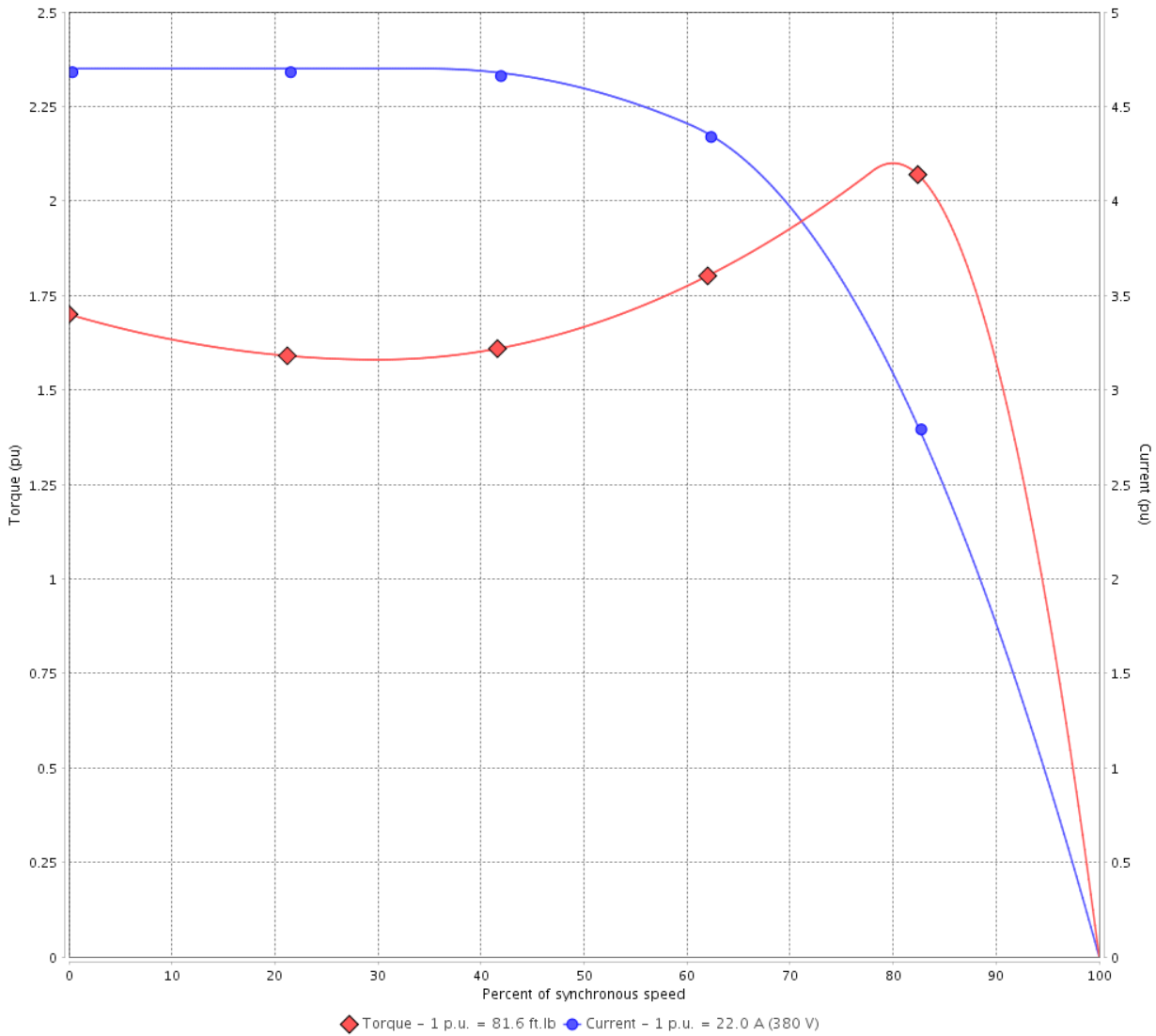
Customer :

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Catalog # : 01512ST3QIE284T-W22

TORQUE AND CURRENT VS SPEED CURVE



Performance : 380 V 50 Hz 6P IE1

Rated current	: 22.0 A	Moment of inertia (J)	: 7.85 sq.ft.lb
LRC	: 4.7	Duty cycle	: Cont.(S1)
Rated torque	: 81.6 ft.lb	Insulation class	: F
Locked rotor torque	: 170 %	Service factor	: 1.00
Breakdown torque	: 210 %	Temperature rise	: 80 K
Rated speed	: 965 rpm	Design	: B

Locked rotor time : 27s (cold) 15s (hot)

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TORQUE AND CURRENT VS SPEED CURVE



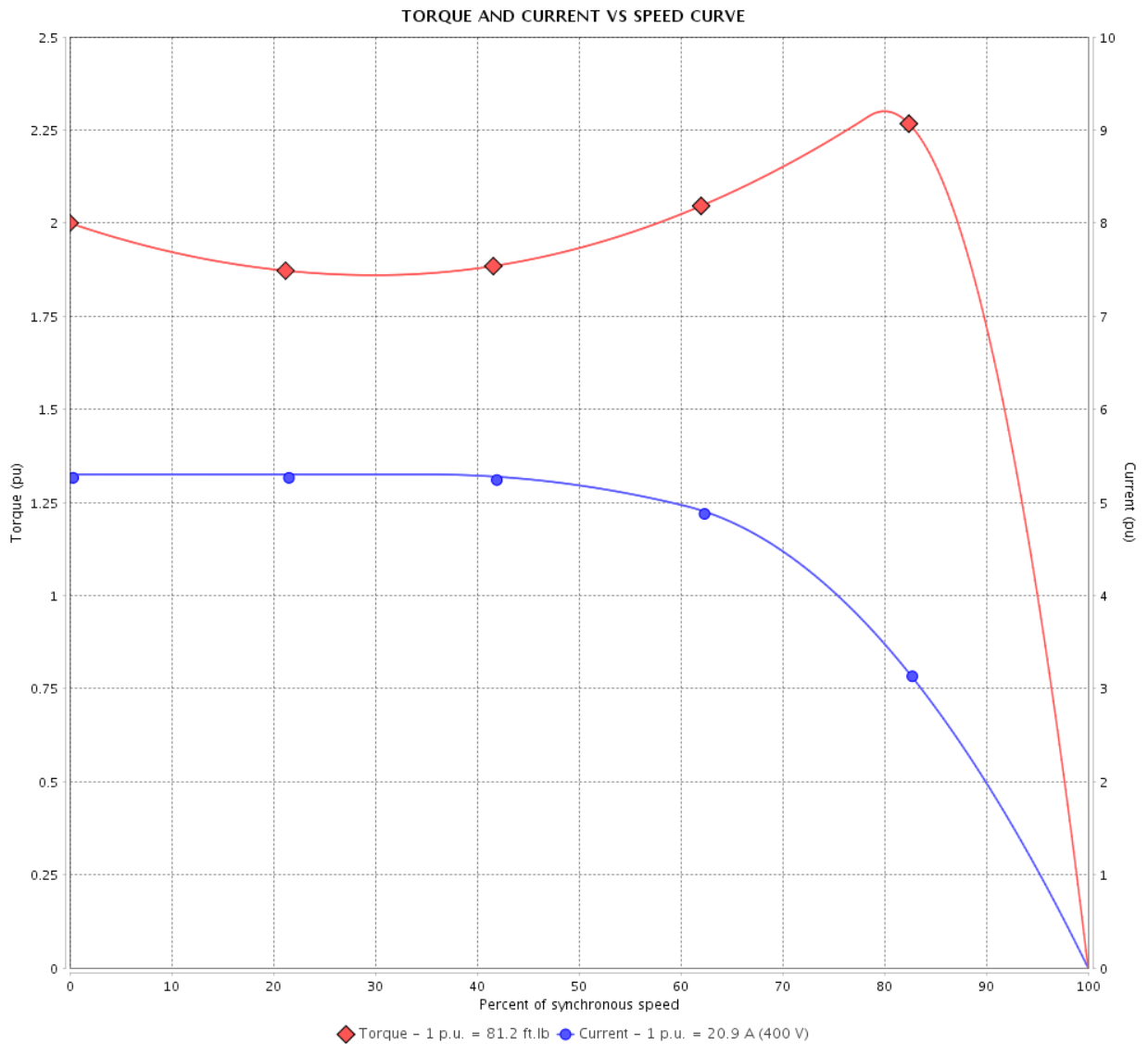
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Product code : 12424292

Catalog # : 01512ST3QIE284T-W22



Performance : 400 V 50 Hz 6P IE2

Rated current	: 20.9 A	Moment of inertia (J)	: 7.85 sq.ft.lb
LRC	: 5.3	Duty cycle	: Cont.(S1)
Rated torque	: 81.2 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 229 %	Temperature rise	: 80 K
Rated speed	: 970 rpm	Design	: B

Locked rotor time : 27s (cold) 15s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



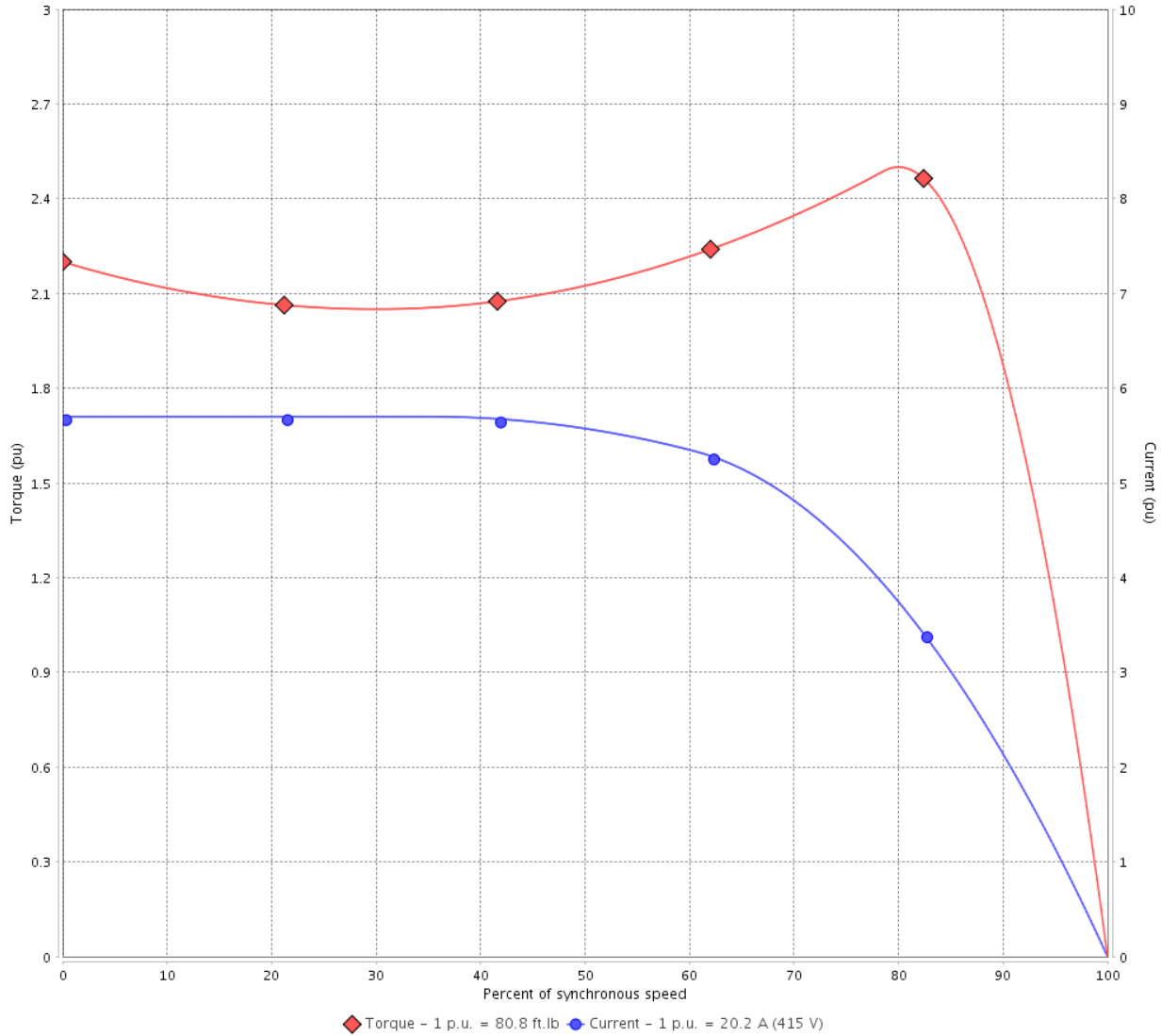
Customer :

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Catalog # : 01512ST3QIE284T-W22

TORQUE AND CURRENT VS SPEED CURVE



Performance : 415 V 50 Hz 6P IE2

Rated current	: 20.2 A	Moment of inertia (J)	: 7.85 sq.ft.lb
LRC	: 5.7	Duty cycle	: Cont.(S1)
Rated torque	: 80.8 ft.lb	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.15
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 975 rpm	Design	: B

Locked rotor time : 27s (cold) 15s (hot)

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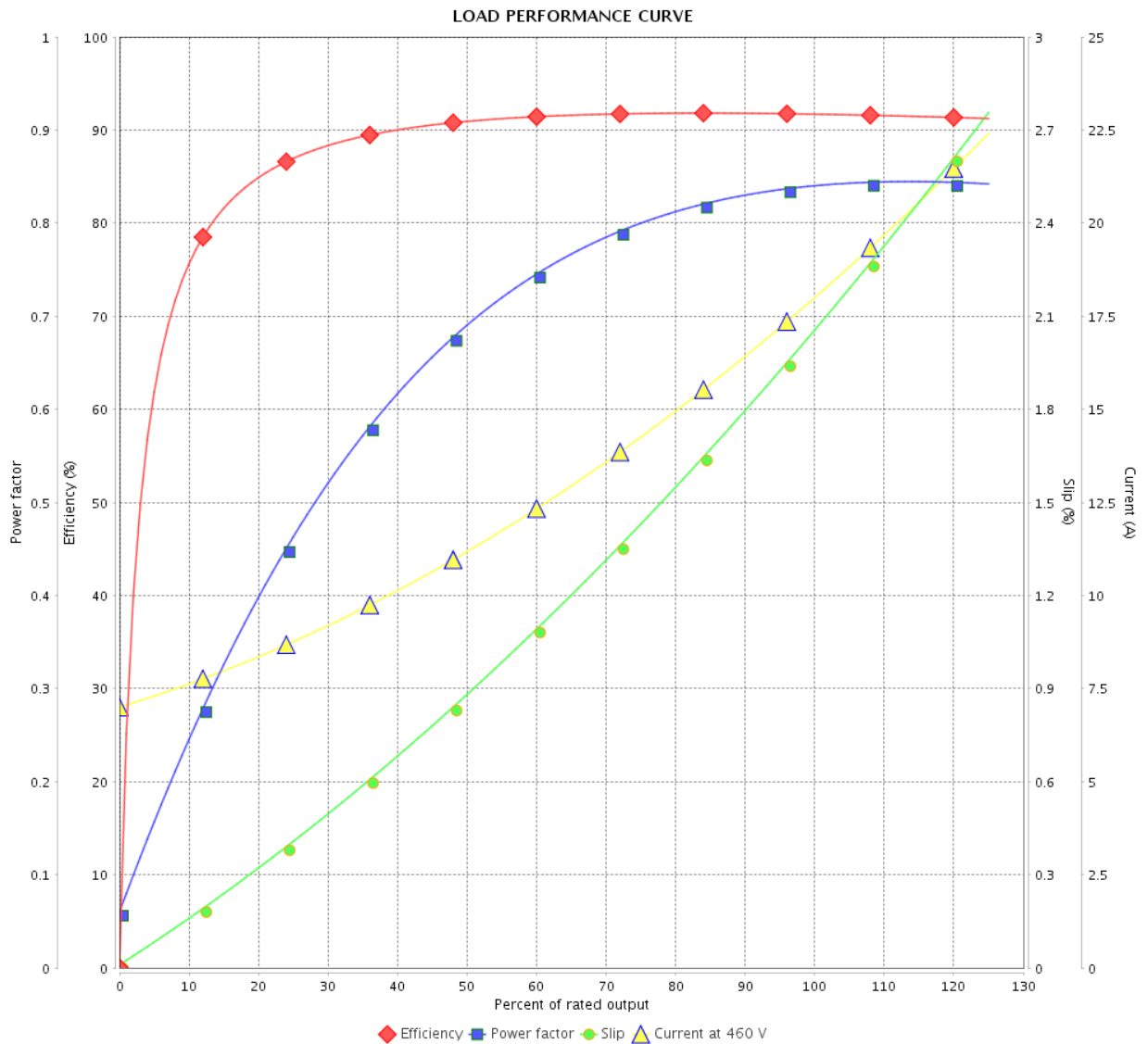


Customer :

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Product code : 12424292

Catalog # : 01512ST3QIE284T-W22



Performance : 460 V 60 Hz 6P

Rated current : 17.9 A
 LRC : 6.4
 Rated torque : 67.0 ft.lb
 Locked rotor torque : 229 %
 Breakdown torque : 260 %
 Rated speed : 1175 rpm

Moment of inertia (J) : 7.85 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



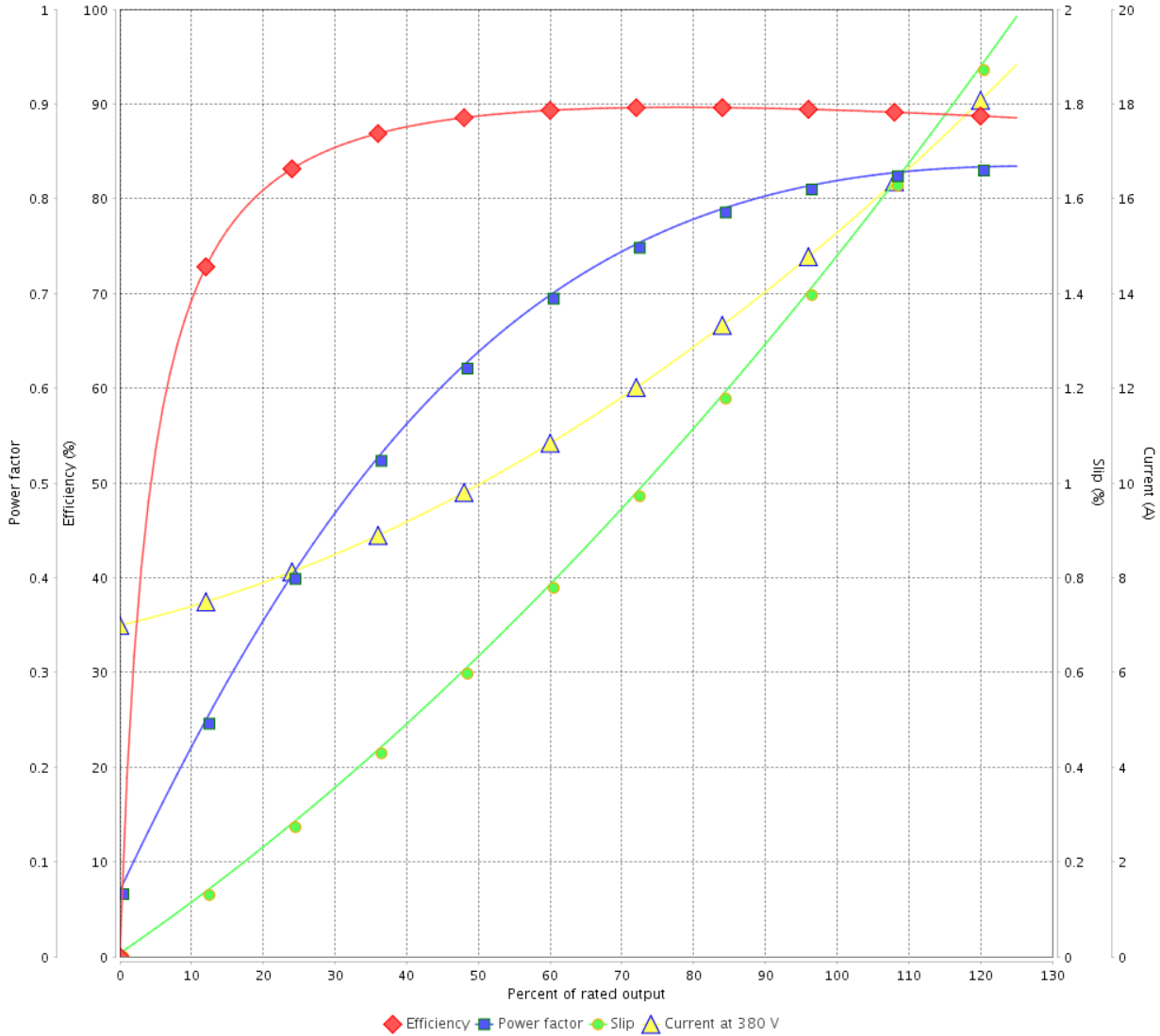
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Performance : 380 V 50 Hz 6P IE3

Rated current : 15.5 A
 LRC : 7.2
 Rated torque : 53.3 ft.lb
 Locked rotor torque : 270 %
 Breakdown torque : 300 %
 Rated speed : 985 rpm

Moment of inertia (J) : 7.85 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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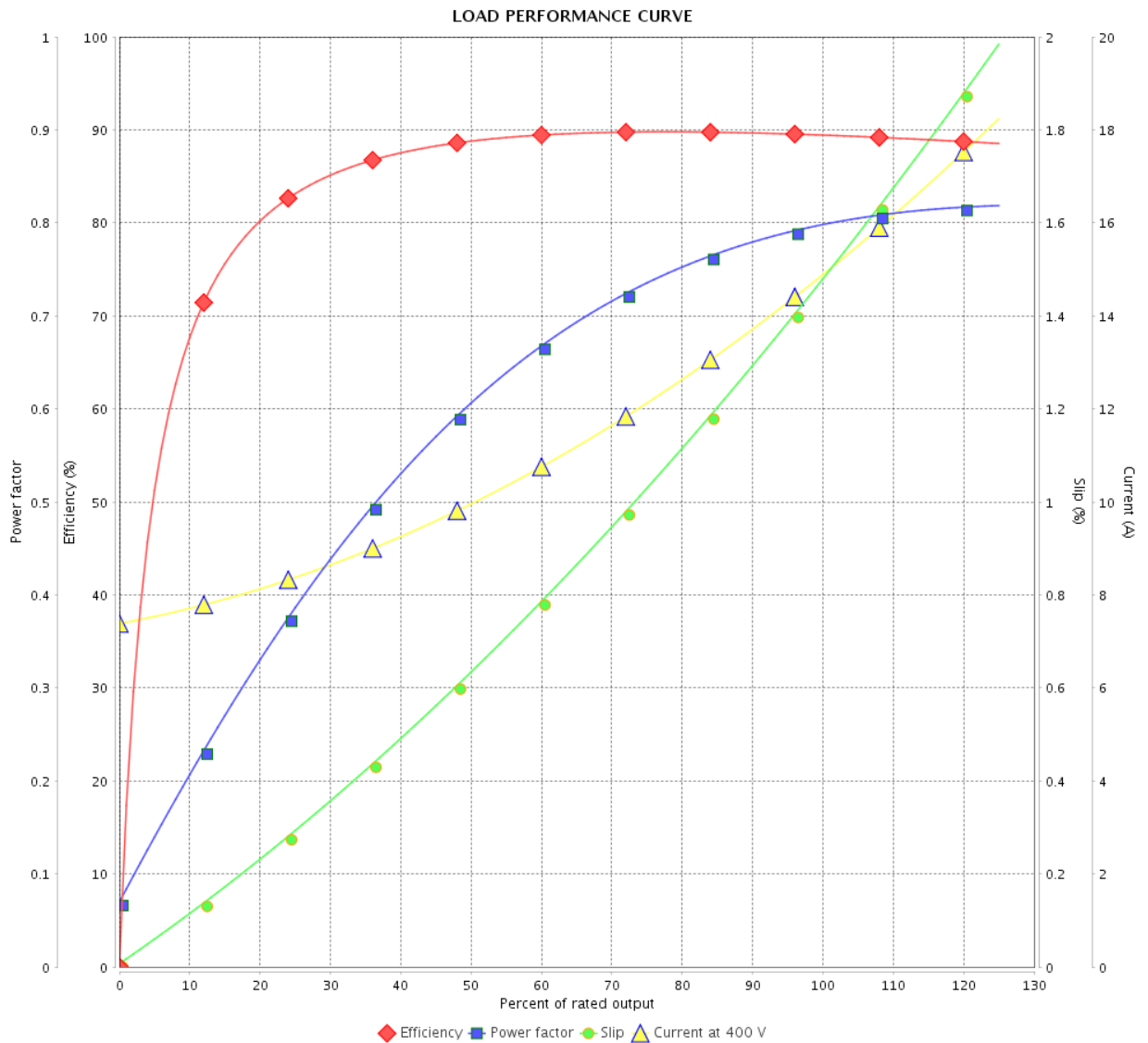


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Performance : 400 V 50 Hz 6P IE3

Rated current : 15.1 A
 LRC : 7.9
 Rated torque : 53.3 ft.lb
 Locked rotor torque : 300 %
 Breakdown torque : 340 %
 Rated speed : 985 rpm

Moment of inertia (J) : 7.85 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



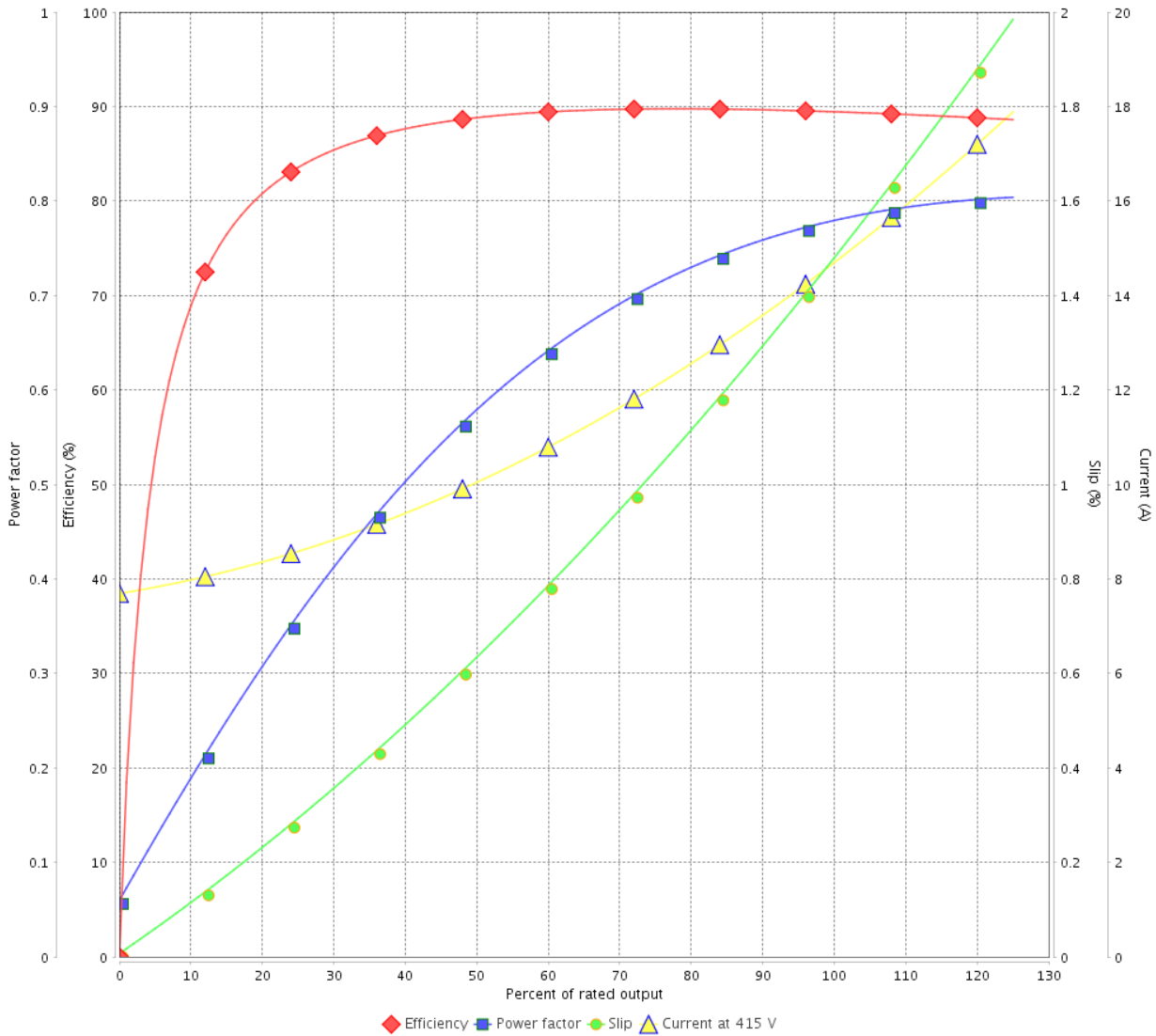
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Product line : NEMA Premium Efficiency Three-Phase

Product code : 12424292

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Performance : 415 V 50 Hz 6P IE3

Rated current : 14.9 A
 LRC : 8.3
 Rated torque : 53.3 ft.lb
 Locked rotor torque : 330 %
 Breakdown torque : 360 %
 Rated speed : 985 rpm

Moment of inertia (J) : 7.85 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

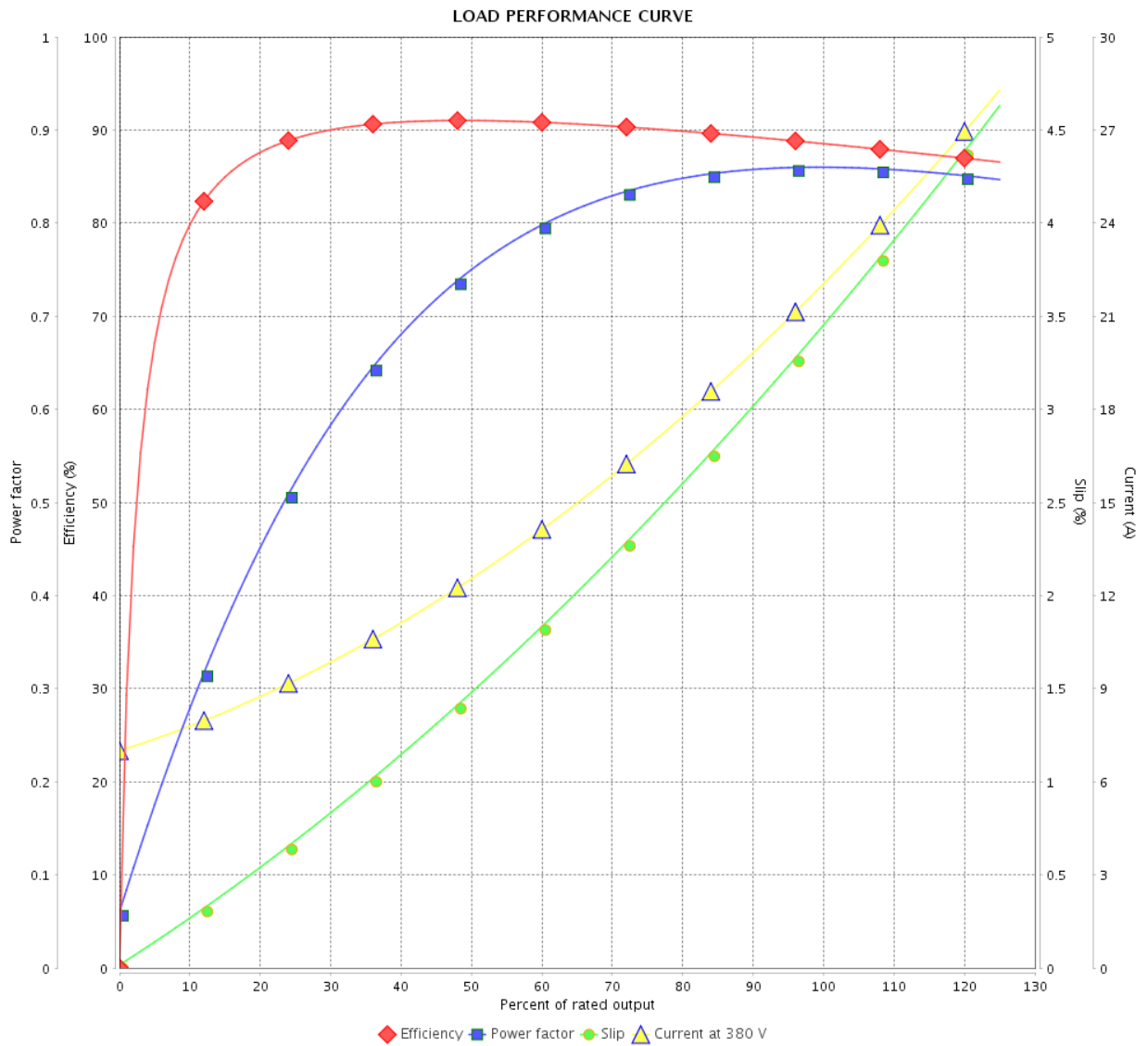


Customer : _____

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12424292

Catalog # : 01512ST3QIE284T-W22



Performance : 380 V 50 Hz 6P IE1

Rated current : 22.0 A
 LRC : 4.7
 Rated torque : 81.6 ft.lb
 Locked rotor torque : 170 %
 Breakdown torque : 210 %
 Rated speed : 965 rpm

Moment of inertia (J) : 7.85 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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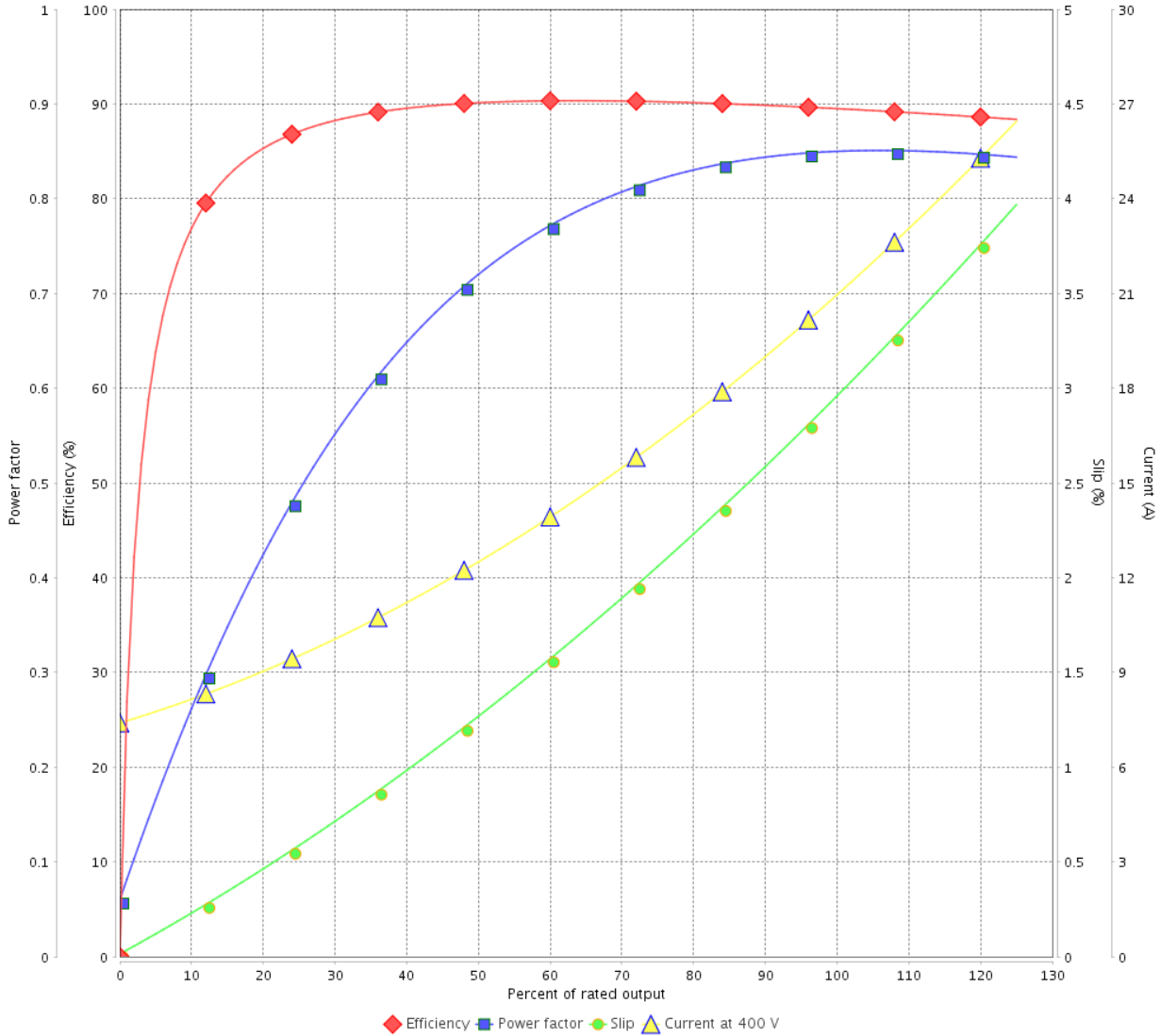
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LOAD PERFORMANCE CURVE



Performance : 400 V 50 Hz 6P IE2

Rated current : 20.9 A
 LRC : 5.3
 Rated torque : 81.2 ft.lb
 Locked rotor torque : 200 %
 Breakdown torque : 229 %
 Rated speed : 970 rpm

Moment of inertia (J) : 7.85 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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Three Phase Induction Motor - Squirrel Cage

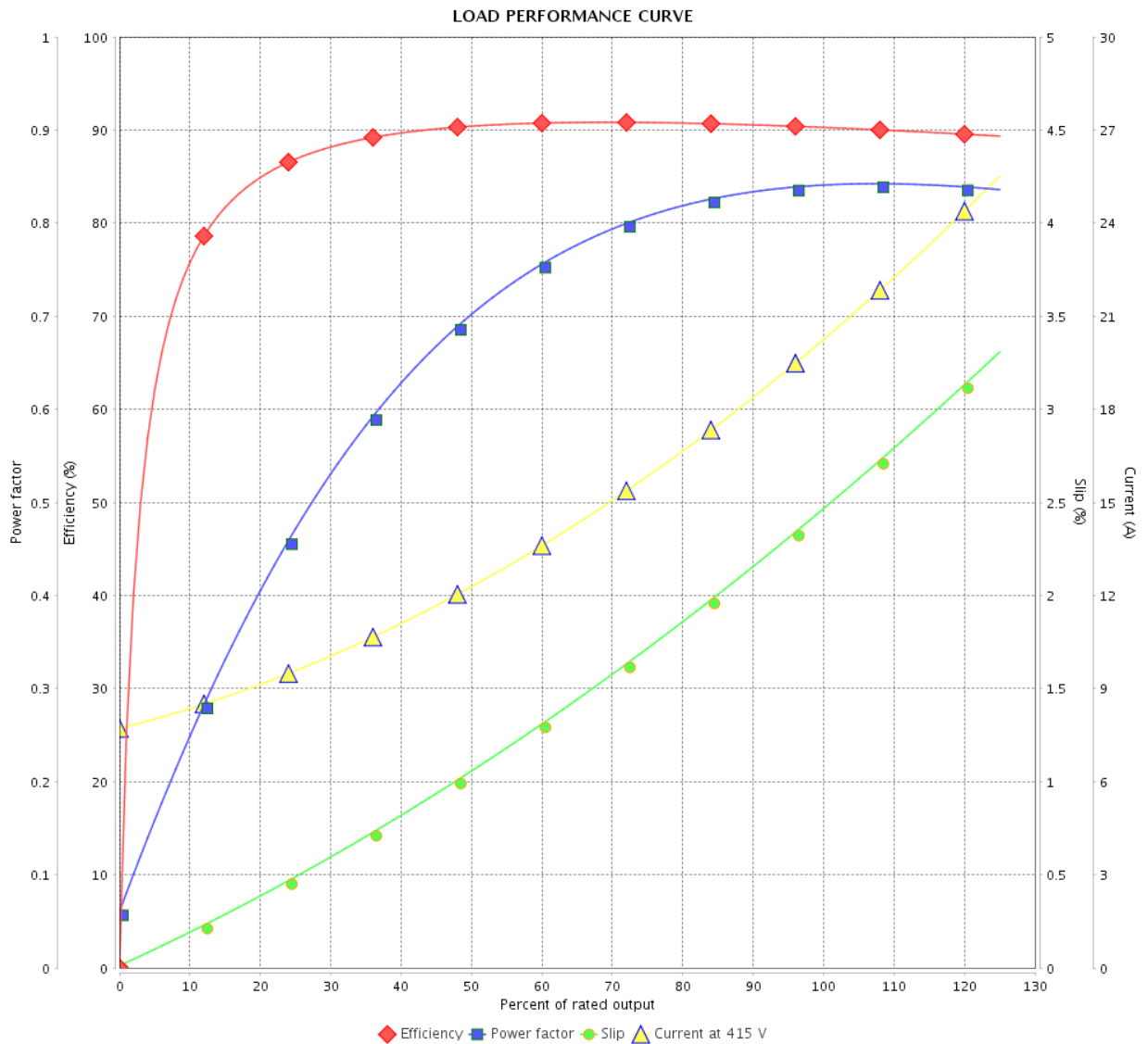


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Product line : NEMA Premium Efficiency Three-Phase

Product code : 12424292

Catalog # : 01512ST3QIE284T-W22



Performance : 415 V 50 Hz 6P IE2

Rated current : 20.2 A
 LRC : 5.7
 Rated torque : 80.8 ft.lb
 Locked rotor torque : 220 %
 Breakdown torque : 250 %
 Rated speed : 975 rpm

Moment of inertia (J) : 7.85 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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Customer :

Product line : NEMA Premium Efficiency Three-Phase
Product code : 12424292
Catalog # : 01512ST3QIE284T-W22

Performance : 460 V 60 Hz 6P

Rated current	: 17.9 A	Moment of inertia (J)	: 7.85 sq.ft.lb
LRC	: 6.4	Duty cycle	: Cont.(S1)
Rated torque	: 67.0 ft.lb	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.25
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1175 rpm	Design	: B

Heating constant

Cooling constant

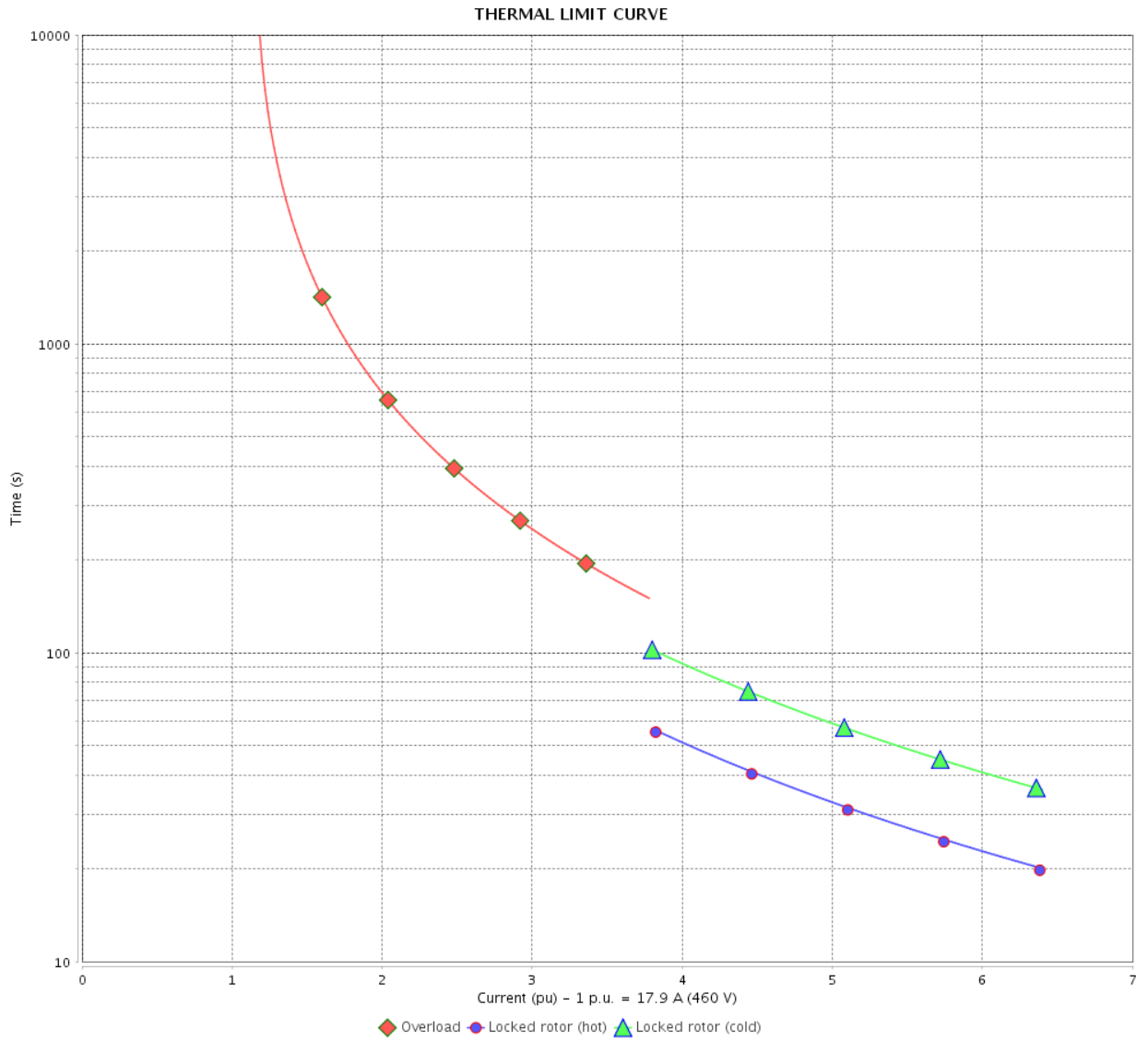
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Three Phase Induction Motor - Squirrel Cage



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Three Phase Induction Motor - Squirrel Cage



Customer :

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Product code : 12424292

Catalog # : 01512ST3QIE284T-W22

Performance : 380 V 50 Hz 6P IE3

Rated current	: 15.5 A	Moment of inertia (J)	: 7.85 sq.ft.lb
LRC	: 7.2	Duty cycle	: Cont.(S1)
Rated torque	: 53.3 ft.lb	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.25
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 985 rpm	Design	: B

Heating constant

Cooling constant

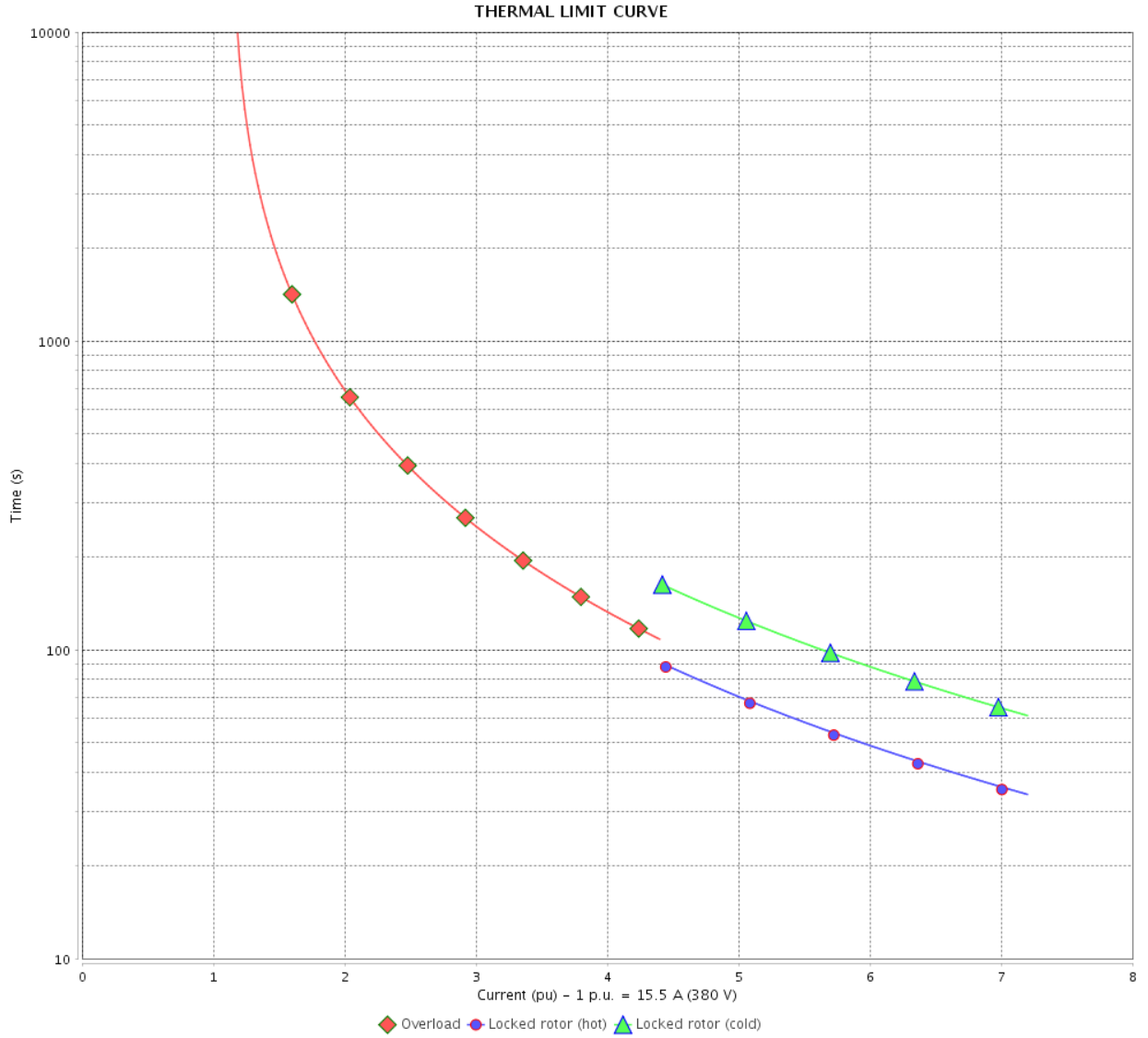
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Three Phase Induction Motor - Squirrel Cage



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THERMAL LIMIT CURVE



Three Phase Induction Motor - Squirrel Cage

Customer :

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Product code : 12424292

Catalog # : 01512ST3QIE284T-W22

Performance : 400 V 50 Hz 6P IE3

Rated current	: 15.1 A	Moment of inertia (J)	: 7.85 sq.ft.lb
LRC	: 7.9	Duty cycle	: Cont.(S1)
Rated torque	: 53.3 ft.lb	Insulation class	: F
Locked rotor torque	: 300 %	Service factor	: 1.25
Breakdown torque	: 340 %	Temperature rise	: 80 K
Rated speed	: 985 rpm	Design	: B

Heating constant

Cooling constant

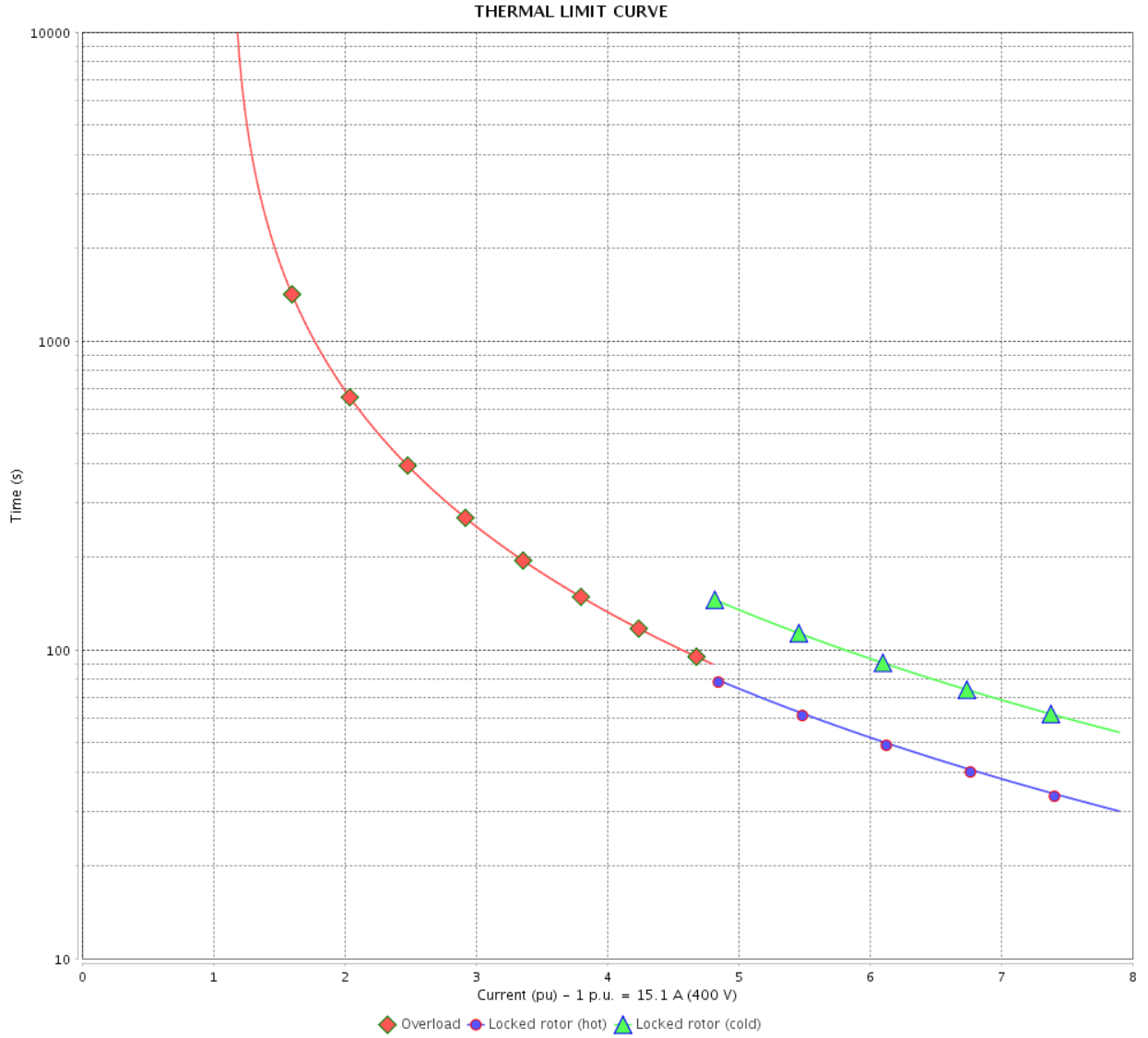
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Performance : 415 V 50 Hz 6P IE3

Rated current	: 14.9 A	Moment of inertia (J)	: 7.85 sq.ft.lb
LRC	: 8.3	Duty cycle	: Cont.(S1)
Rated torque	: 53.3 ft.lb	Insulation class	: F
Locked rotor torque	: 330 %	Service factor	: 1.25
Breakdown torque	: 360 %	Temperature rise	: 80 K
Rated speed	: 985 rpm	Design	: B

Heating constant

Cooling constant

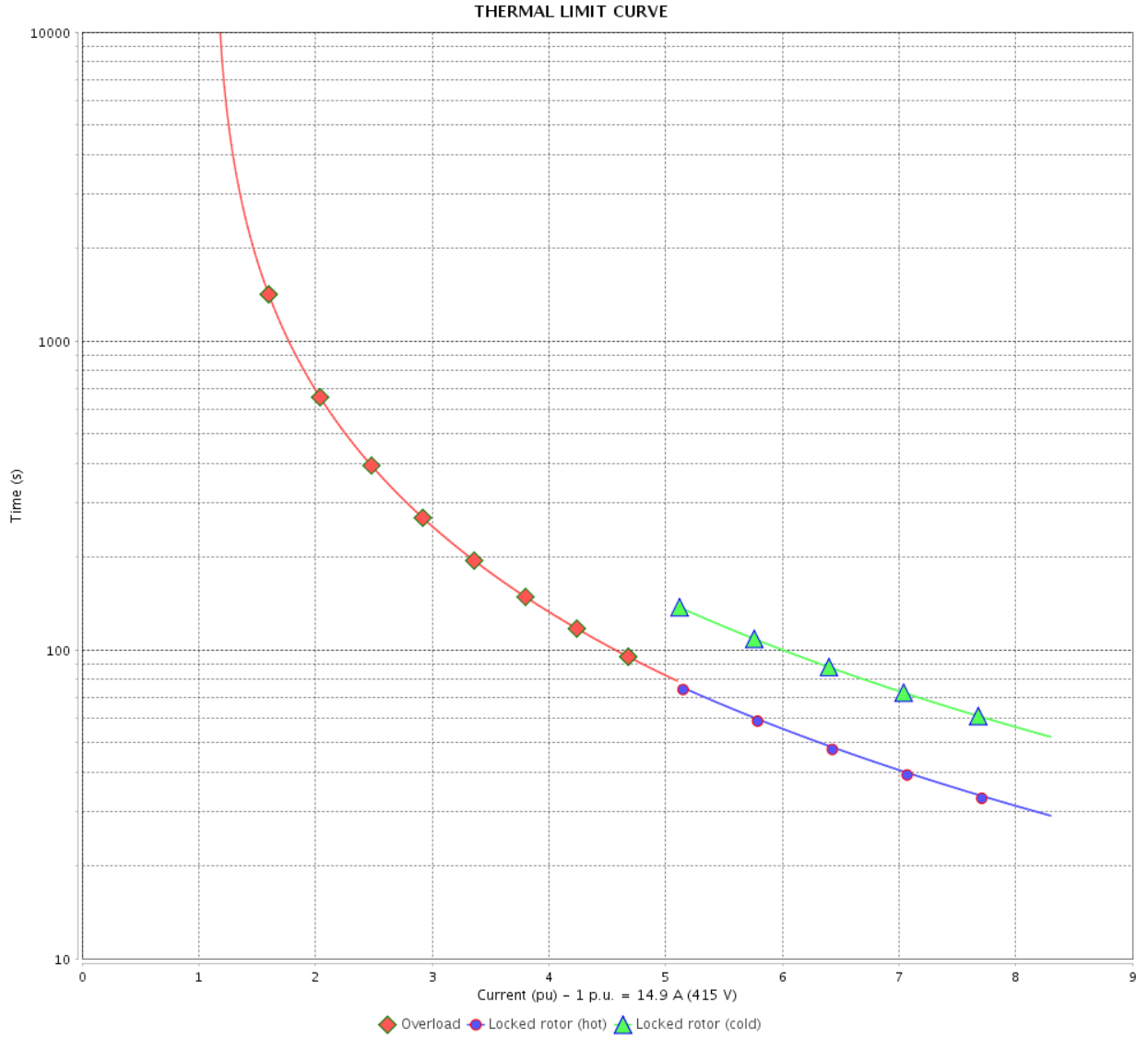
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Performance : 380 V 50 Hz 6P IE1

Rated current	: 22.0 A	Moment of inertia (J)	: 7.85 sq.ft.lb
LRC	: 4.7	Duty cycle	: Cont.(S1)
Rated torque	: 81.6 ft.lb	Insulation class	: F
Locked rotor torque	: 170 %	Service factor	: 1.00
Breakdown torque	: 210 %	Temperature rise	: 80 K
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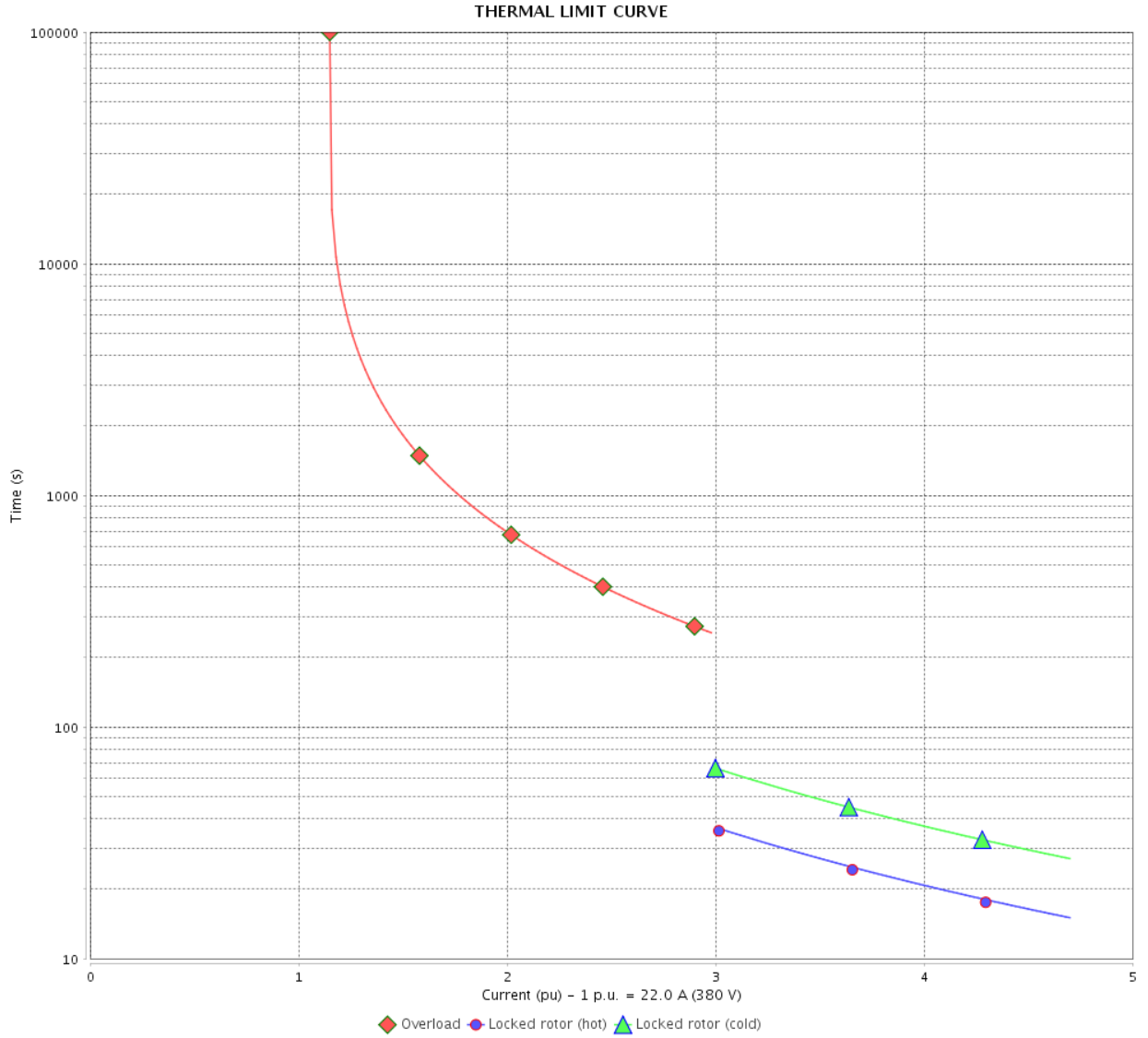
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Product code : 12424292
Catalog # : 01512ST3QIE284T-W22

Performance : 400 V 50 Hz 6P IE2

Rated current	: 20.9 A	Moment of inertia (J)	: 7.85 sq.ft.lb
LRC	: 5.3	Duty cycle	: Cont.(S1)
Rated torque	: 81.2 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 229 %	Temperature rise	: 80 K
Rated speed	: 970 rpm	Design	: B

Heating constant

Cooling constant

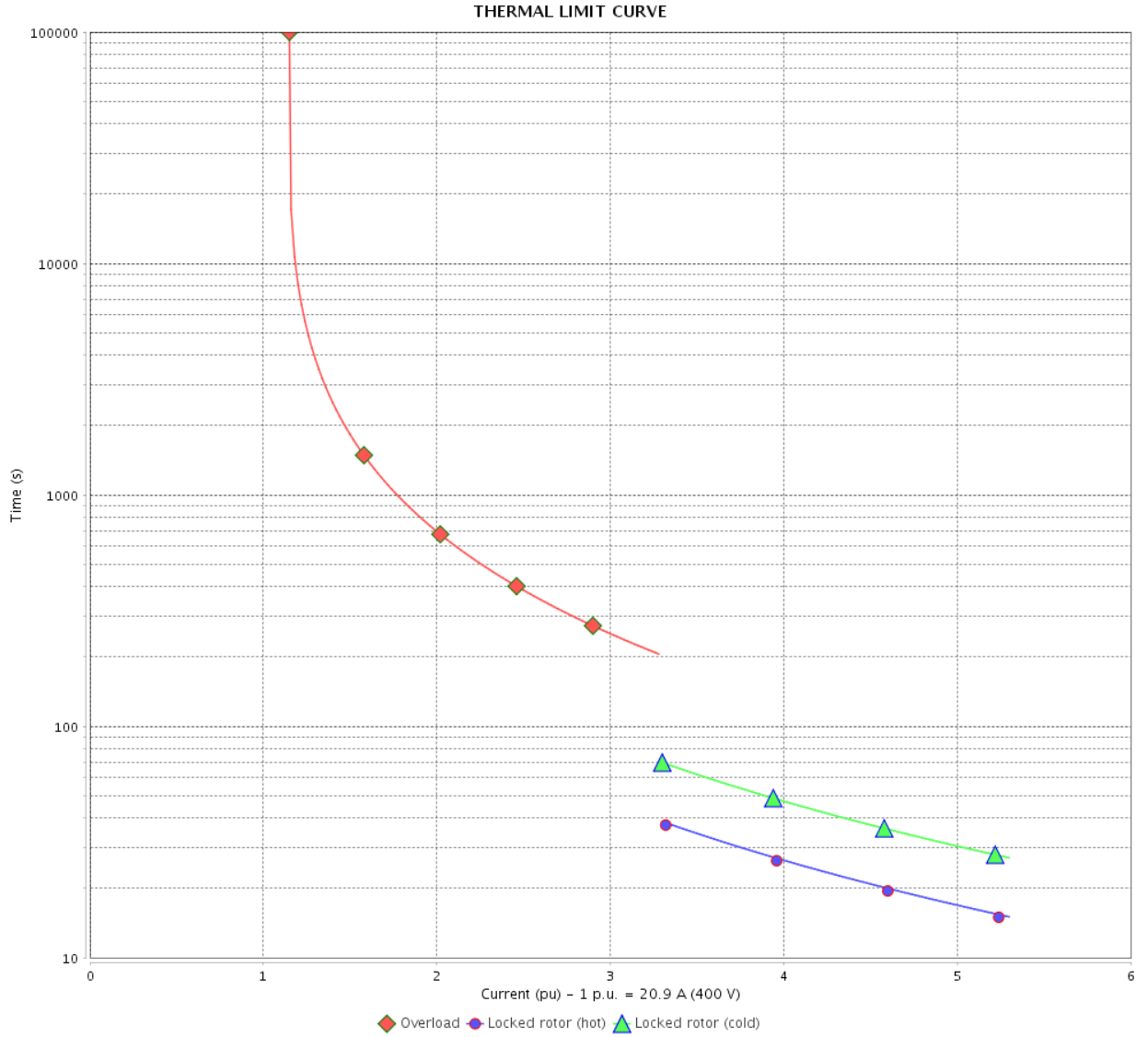
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	13/04/2022		26 / 36	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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Checked by		27 / 36		
Date		13/04/2022		

THERMAL LIMIT CURVE



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase
Product code : 12424292
Catalog # : 01512ST3QIE284T-W22

Performance : 415 V 50 Hz 6P IE2

Rated current	: 20.2 A	Moment of inertia (J)	: 7.85 sq.ft.lb
LRC	: 5.7	Duty cycle	: Cont.(S1)
Rated torque	: 80.8 ft.lb	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.15
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 975 rpm	Design	: B

Heating constant

Cooling constant

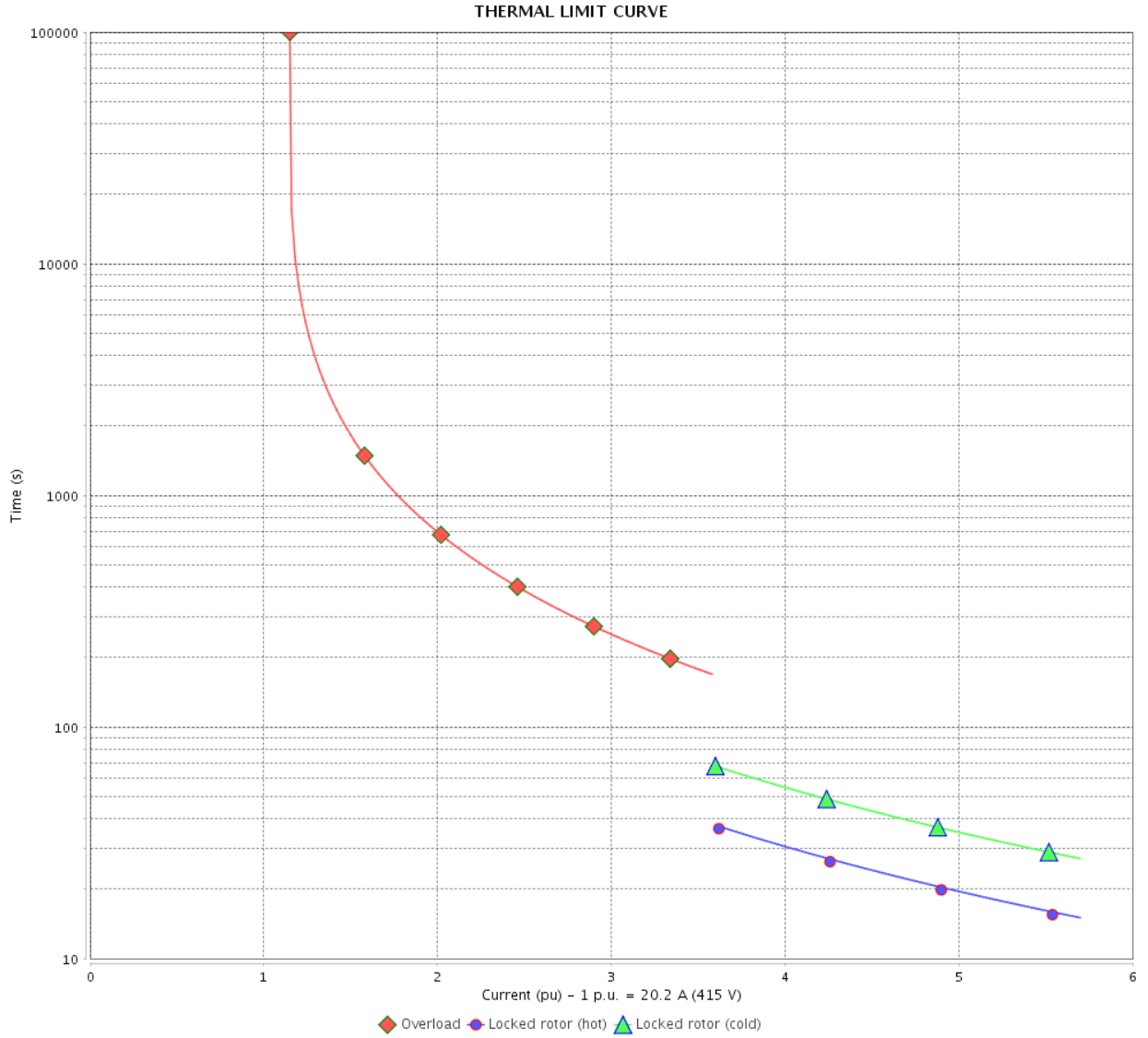
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Checked by			Page	Revision
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

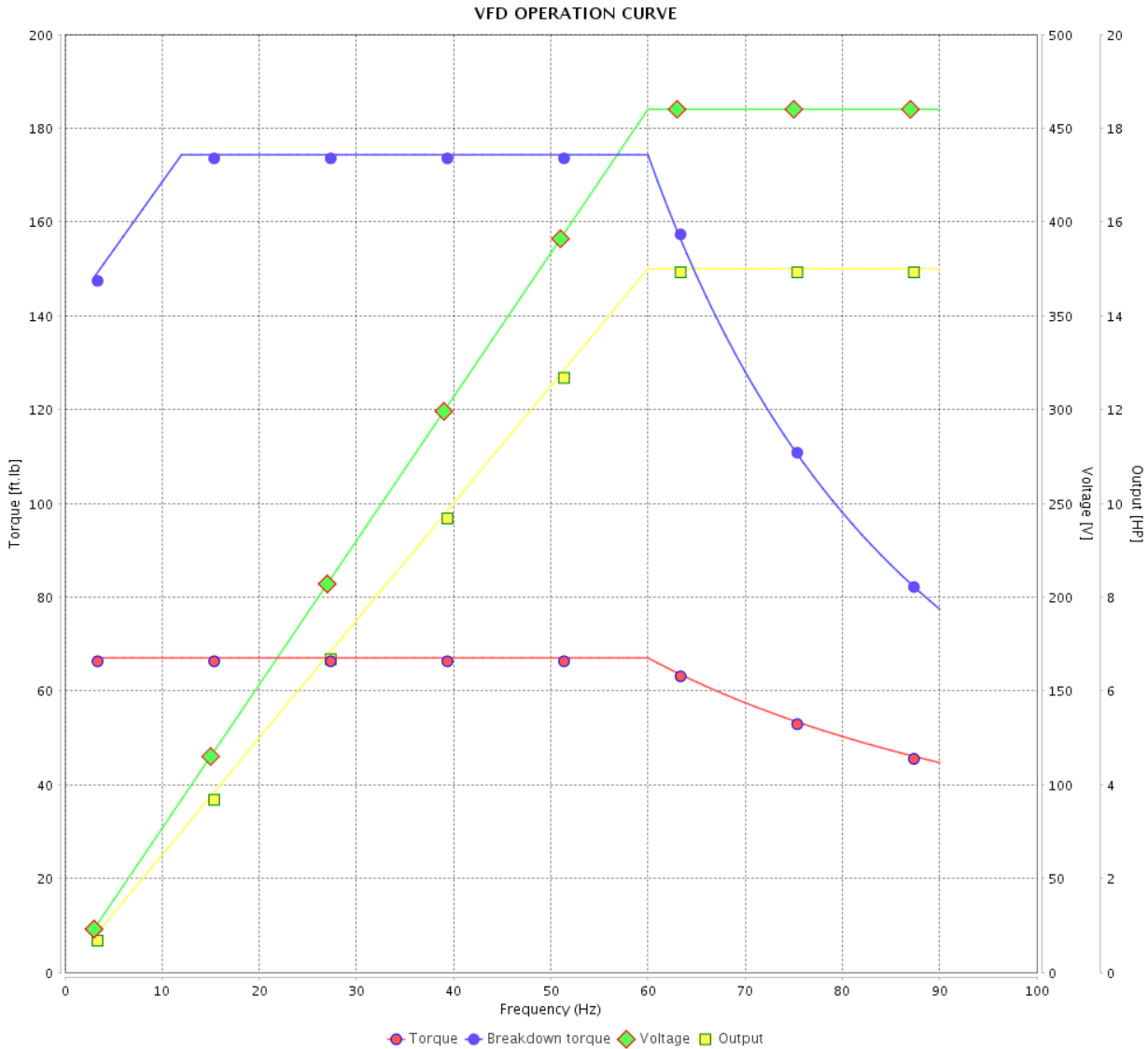


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12424292

Catalog # : 01512ST3QIE284T-W22



Performance : 460 V 60 Hz 6P

Rated current : 17.9 A
 LRC : 6.4
 Rated torque : 67.0 ft.lb
 Locked rotor torque : 229 %
 Breakdown torque : 260 %
 Rated speed : 1175 rpm

Moment of inertia (J) : 7.85 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

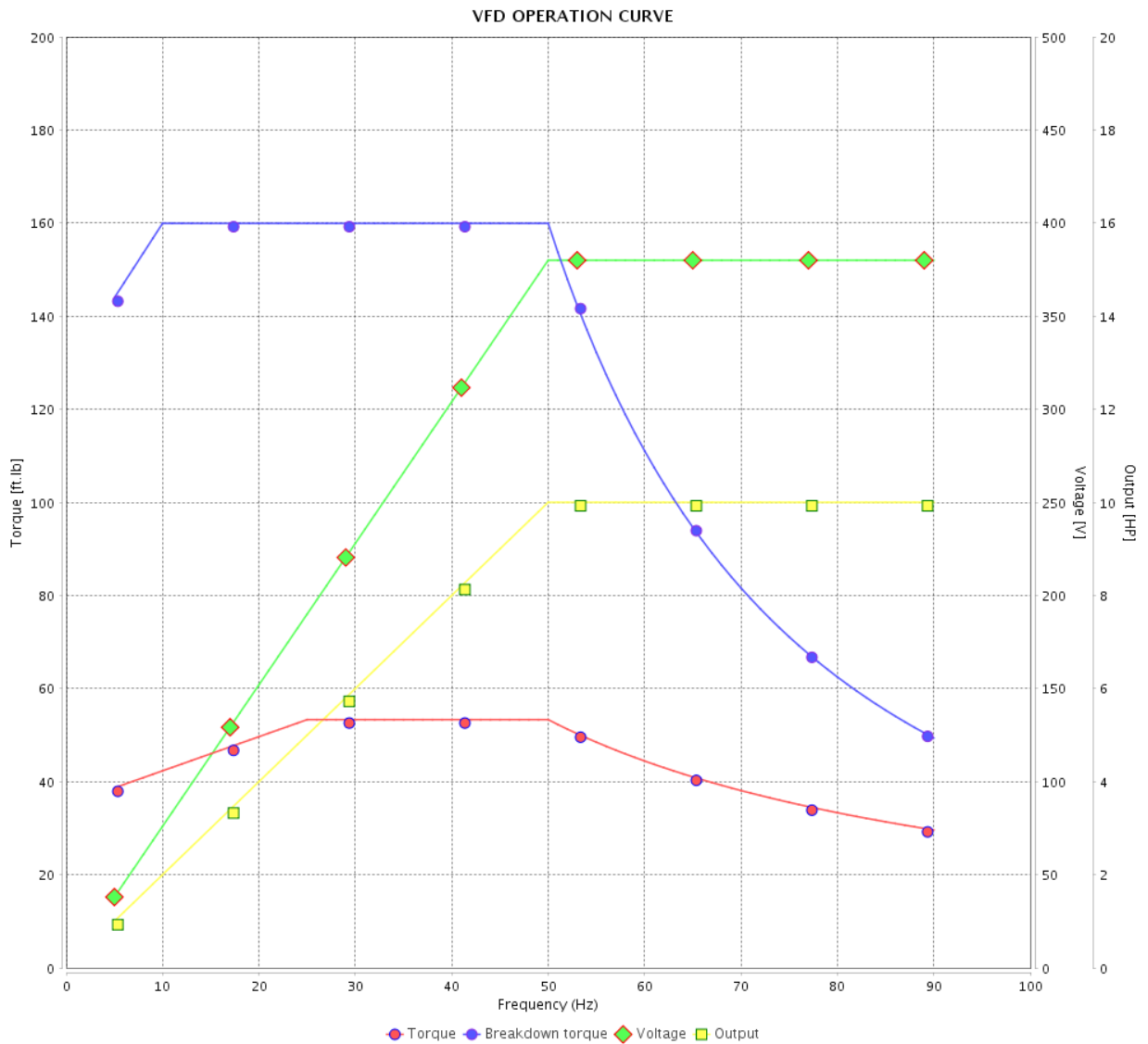


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12424292

Catalog # : 01512ST3QIE284T-W22



Performance : 380 V 50 Hz 6P IE3

Rated current : 15.5 A
 LRC : 7.2
 Rated torque : 53.3 ft.lb
 Locked rotor torque : 270 %
 Breakdown torque : 300 %
 Rated speed : 985 rpm

Moment of inertia (J) : 7.85 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

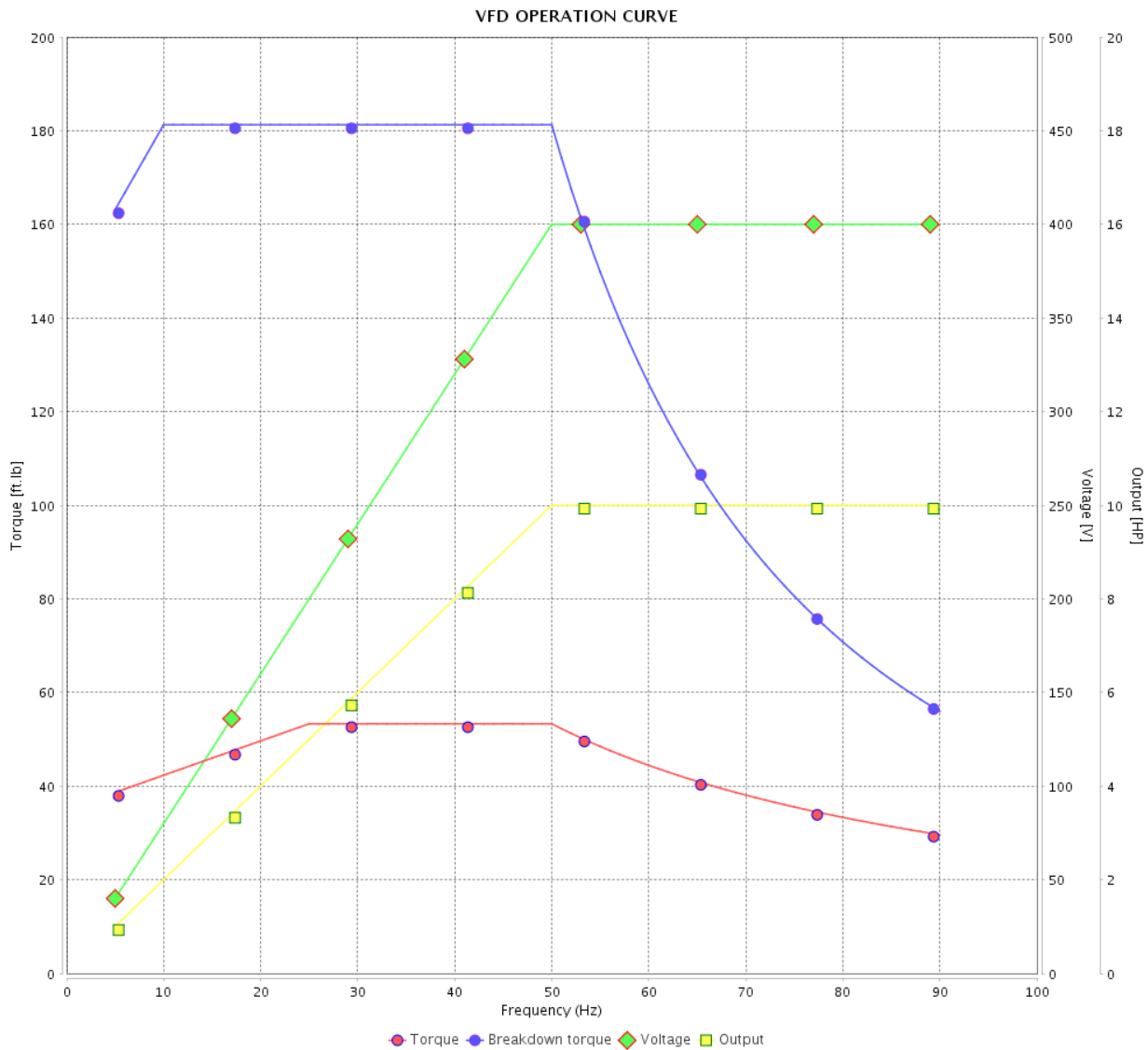


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12424292

Catalog # : 01512ST3QIE284T-W22



Performance : 400 V 50 Hz 6P IE3

Rated current : 15.1 A
 LRC : 7.9
 Rated torque : 53.3 ft.lb
 Locked rotor torque : 300 %
 Breakdown torque : 340 %
 Rated speed : 985 rpm

Moment of inertia (J) : 7.85 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				
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

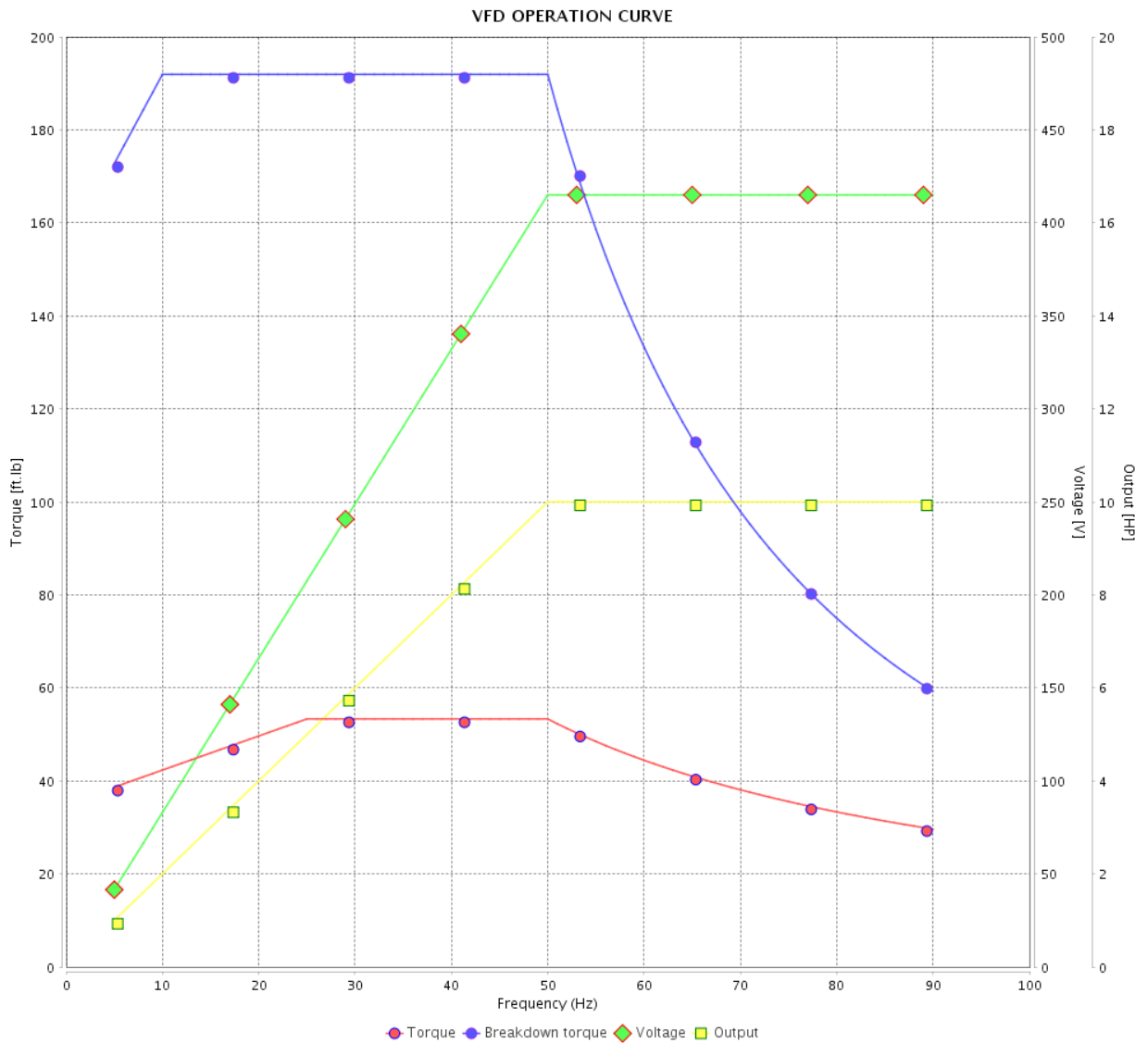


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12424292

Catalog # : 01512ST3QIE284T-W22



Performance : 415 V 50 Hz 6P IE3

Rated current : 14.9 A
 LRC : 8.3
 Rated torque : 53.3 ft.lb
 Locked rotor torque : 330 %
 Breakdown torque : 360 %
 Rated speed : 985 rpm

Moment of inertia (J) : 7.85 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



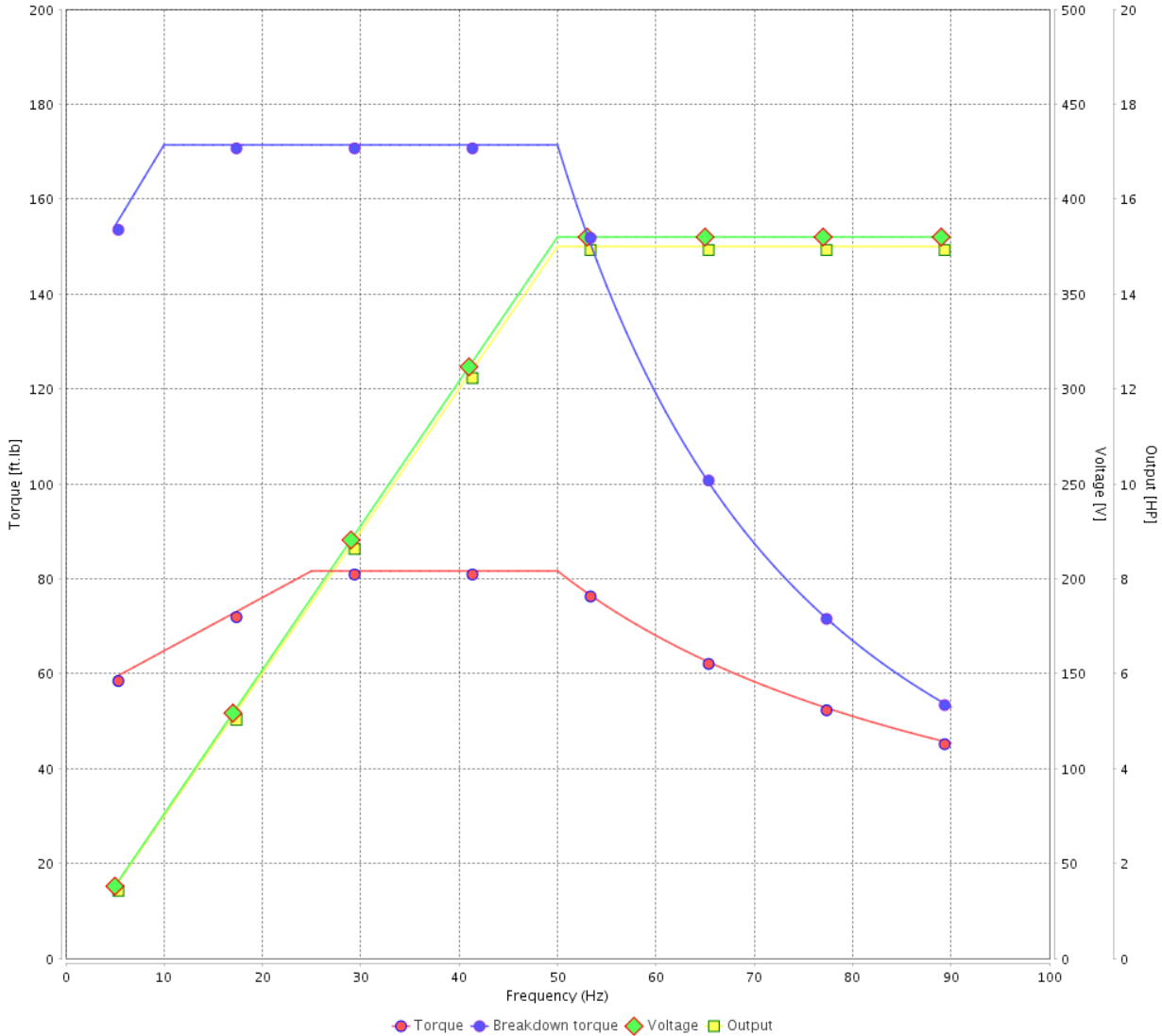
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Product line : NEMA Premium Efficiency Three-Phase

Product code : 12424292

Catalog # : 01512ST3QIE284T-W22

VFD OPERATION CURVE



Performance : 380 V 50 Hz 6P IE1

Rated current : 22.0 A
 LRC : 4.7
 Rated torque : 81.6 ft.lb
 Locked rotor torque : 170 %
 Breakdown torque : 210 %
 Rated speed : 965 rpm

Moment of inertia (J) : 7.85 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

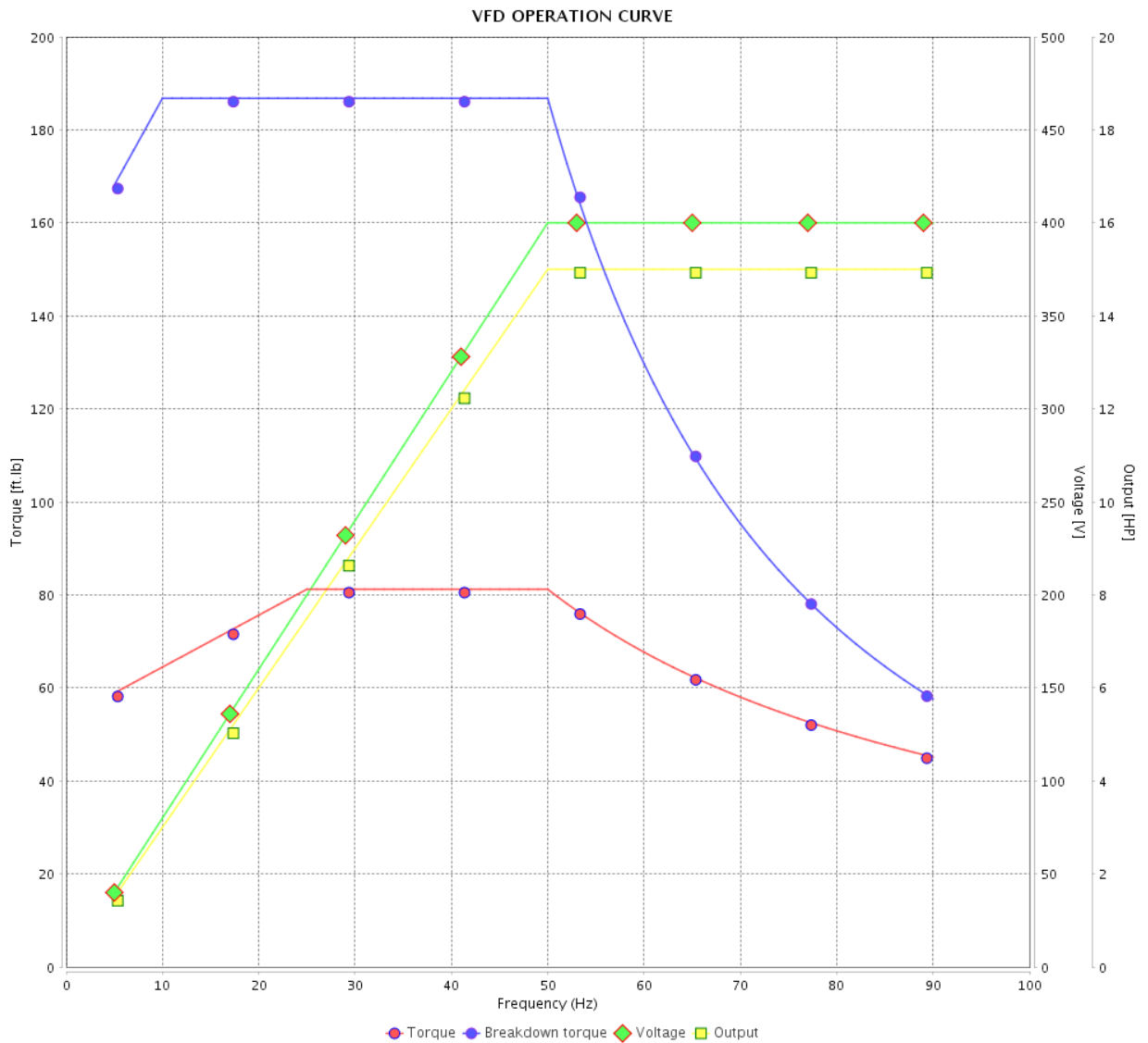


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12424292

Catalog # : 01512ST3QIE284T-W22



Performance : 400 V 50 Hz 6P IE2

Rated current : 20.9 A
 LRC : 5.3
 Rated torque : 81.2 ft.lb
 Locked rotor torque : 200 %
 Breakdown torque : 229 %
 Rated speed : 970 rpm

Moment of inertia (J) : 7.85 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				
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



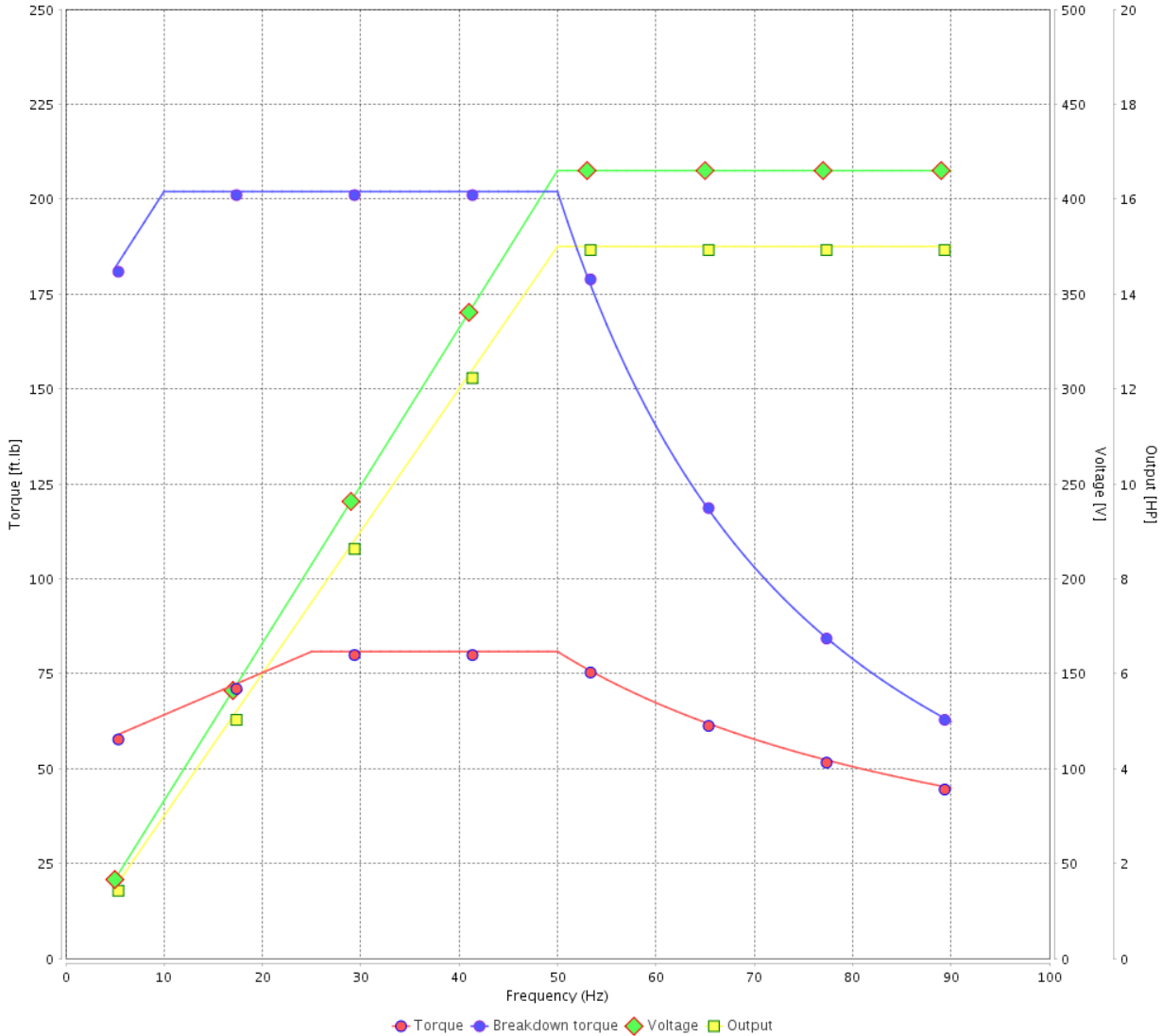
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Product code : 12424292

Catalog # : 01512ST3QIE284T-W22

VFD OPERATION CURVE



Performance : 415 V 50 Hz 6P IE2

Rated current : 20.2 A
 LRC : 5.7
 Rated torque : 80.8 ft.lb
 Locked rotor torque : 220 %
 Breakdown torque : 250 %
 Rated speed : 975 rpm

Moment of inertia (J) : 7.85 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

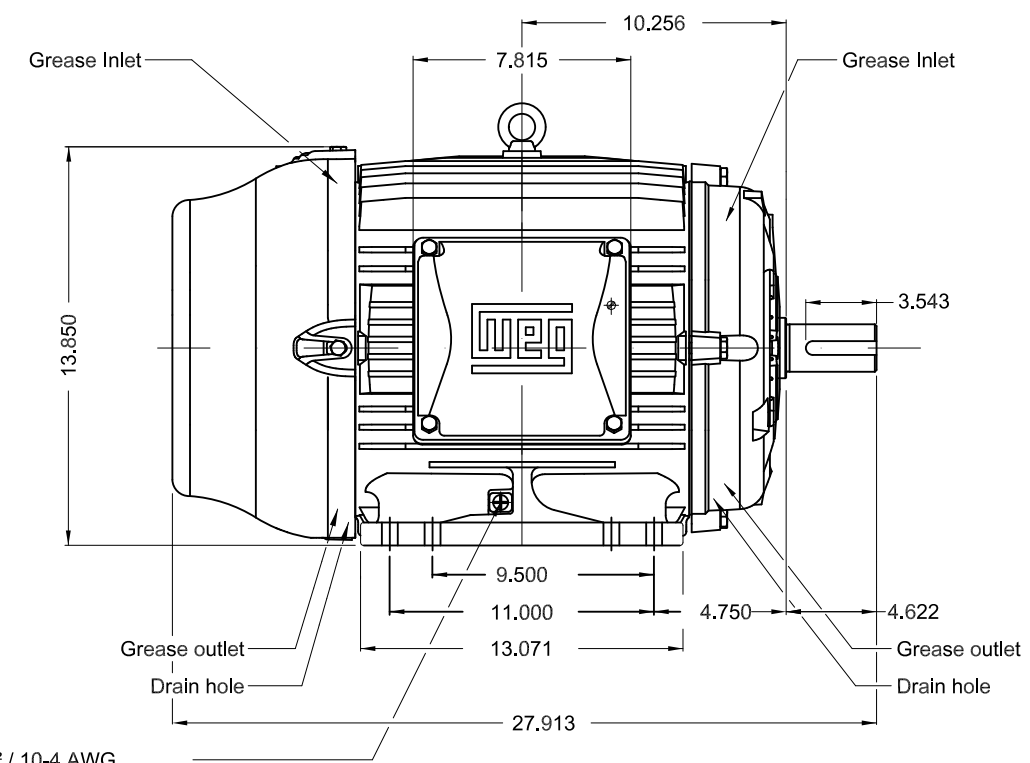
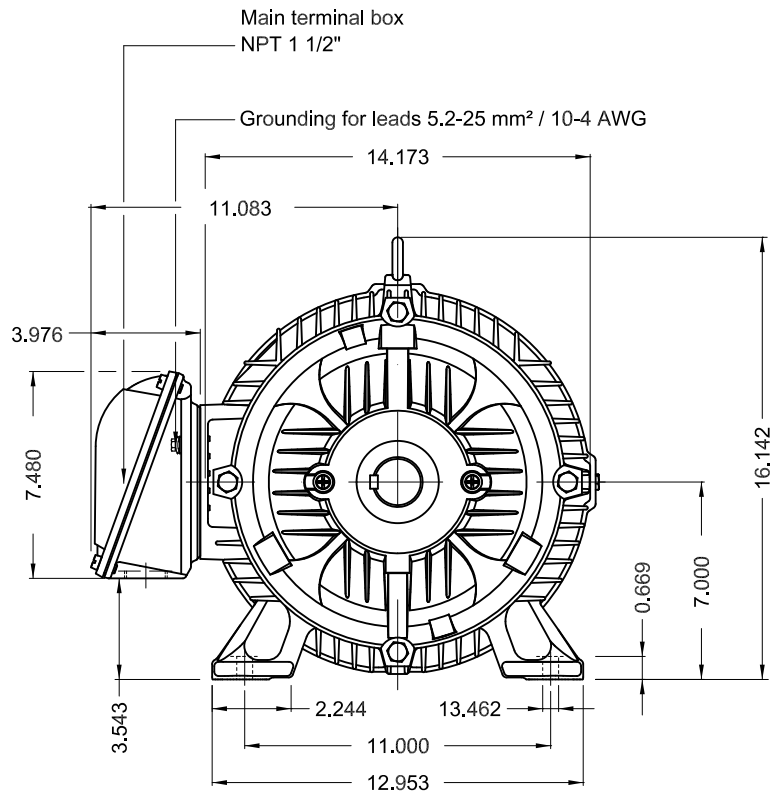
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Performed by			Page 36 / 36	Revision
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1 2 3 4 5 6

A

B

C

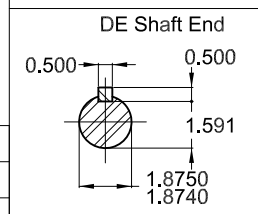


Grounding for leads 5.2-25 mm² / 10-4 AWG

D

E

Color RAL 5009
 Painting plan 202E
 Mounting B3R(D)



15 HP 06 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 284/6T IP55 TEFC					
RELEASED							
REL DT.	WMO	Jaragua do Sul	Product Engineering				

PREVIEW
 WDD



SHEET 1 / 1

Dimensions in inches XME A3