

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :								
Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	11416577					
		Catalog # :	00218ET3E145T-W22					
Frame	: 143/5T	Cooling method	: IC411 - TEFC					
Insulation class	: F	Mounting	: F-1					
Duty cycle	: Cont.(S1)	Rotation ¹	: Both (CW and CCW)					
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line					
Altitude	: 1000 m.a.s.l.	Approx. weight ²	: 50.0 lb					
Protection degree	: IP55	Moment of inertia (J)	: 0.1561 sq.ft.lb					
Design	: B							
Output [HP]	2	1.5	1.5	1.5	2	2	2	
Poles	4	4	4	4	4	4	4	
Frequency [Hz]	60	50	50	50	50	50	50	
Rated voltage [V]	230/460	380	400	415	380	400	415	
Rated current [A]	5.52/2.76	2.57	2.57	2.56	3.33	3.22	3.14	
L. R. Amperes [A]	45.8/22.9	21.1	22.4	21.5	20.0	21.3	22.9	
LRC [A]	8.3x(Code L)	8.2x(Code L)	8.7x(Code M)	8.4x(Code M)	6.0x(Code H)	6.6x(Code J)	7.3x(Code K)	
No load current [A]	3.26/1.63	1.61	1.80	1.97	1.61	1.80	1.97	
Rated speed [RPM]	1755	1460	1465	1465	1435	1440	1450	
Slip [%]	2.50	2.67	2.33	2.33	4.33	4.00	3.33	
Rated torque [ft.lb]	6.00	5.40	5.38	5.38	7.32	7.29	7.24	
Locked rotor torque [%]	270	290	320	350	220	229	250	
Breakdown torque [%]	320	330	380	409	240	260	290	
Service factor	1.25	1.25	1.25	1.25	1.25	1.25	1.25	
Temperature rise	80 K	80 K	80 K	80 K	80 K	80 K	80 K	
Locked rotor time	19s (cold) 11s (hot)	19s (cold) 11s (hot)	19s (cold) 11s (hot)	19s (cold) 11s (hot)	19s (cold) 11s (hot)	19s (cold) 11s (hot)	19s (cold) 11s (hot)	
Noise level ²	51.0 dB(A)	49.0 dB(A)	49.0 dB(A)	49.0 dB(A)	49.0 dB(A)	49.0 dB(A)	49.0 dB(A)	
Efficiency (%)	25%	85.2	83.5	80.9	80.3	86.7	83.7	83.8
	50%	85.5	84.0	82.0	81.4	85.5	84.0	84.0
	75%	86.5	84.2	83.5	83.1	84.0	84.0	84.0
	100%	86.5	84.5	84.5	84.1	82.5	84.0	84.0
Power Factor	25%	0.32	0.31	0.27	0.25	0.39	0.35	0.32
	50%	0.57	0.55	0.50	0.47	0.66	0.62	0.60
	75%	0.70	0.69	0.64	0.61	0.78	0.74	0.72
	100%	0.79	0.77	0.73	0.71	0.83	0.80	0.79
Bearing type	: Drive end : 6205 ZZ Non drive end : 6204 ZZ	Foundation loads						
Sealing	: V'Ring	Max. traction	: 158 lb					
Lubrication interval	: -	Max. compression	: 208 lb					
Lubricant amount	: -							
Lubricant type	: Mobil Polyrex EM							
Notes USABLE @208V 5.85A SF 1.15 SFA 6.73A								
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



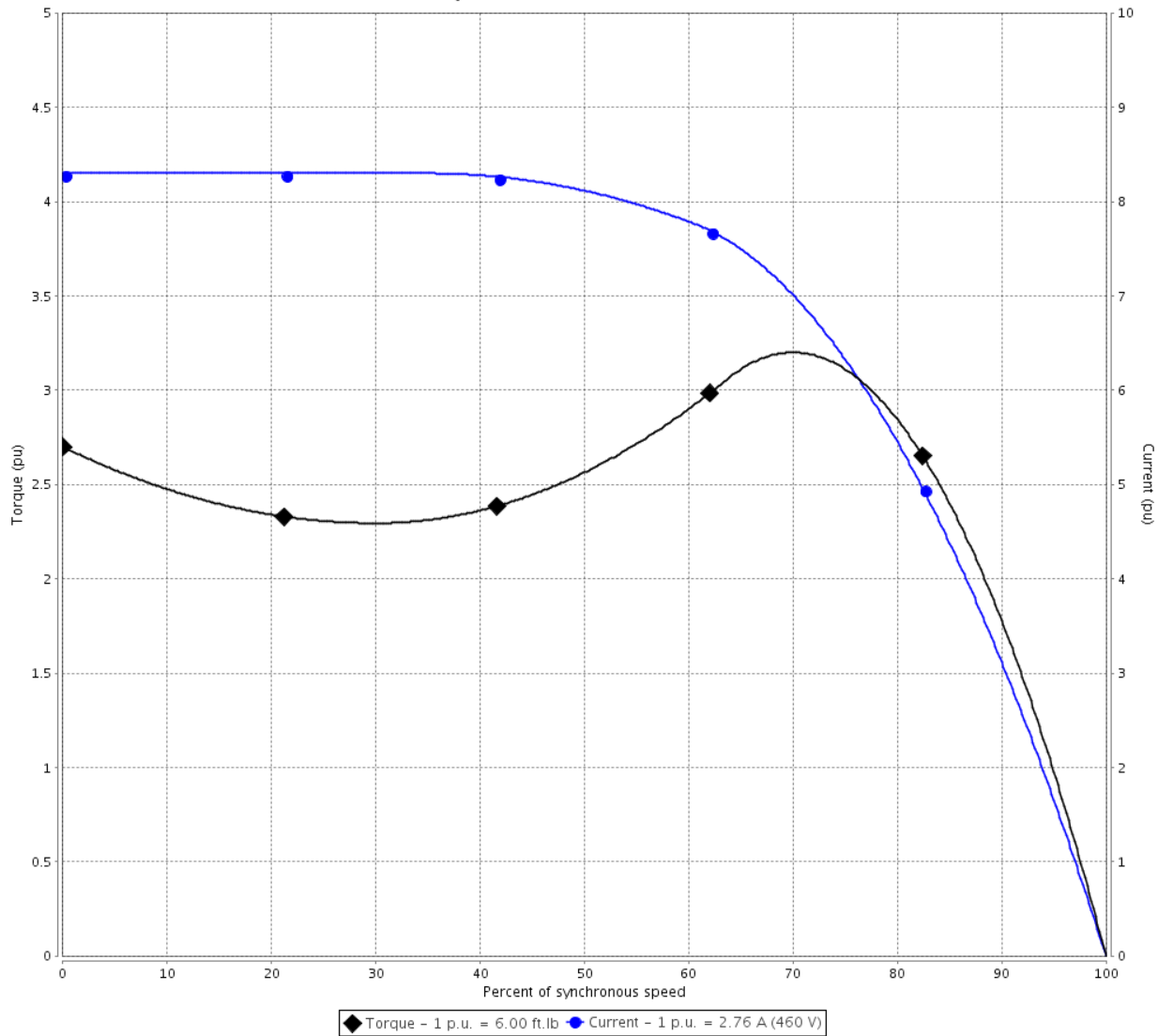
Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 11416577

Catalog # : 00218ET3E145T-W22

TORQUE AND CURRENT VS SPEED CURVE



Performance : 230/460 V 60 Hz 4P

Rated current	: 5.52/2.76 A	Moment of inertia (J)	: 0.1561 sq.ft.lb
LRC	: 8.3	Duty cycle	: Cont.(S1)
Rated torque	: 6.00 ft.lb	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.25
Breakdown torque	: 320 %	Temperature rise	: 80 K
Rated speed	: 1755 rpm	Design	: B

Locked rotor time : 19s (cold) 11s (hot)

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TORQUE AND CURRENT VS SPEED CURVE



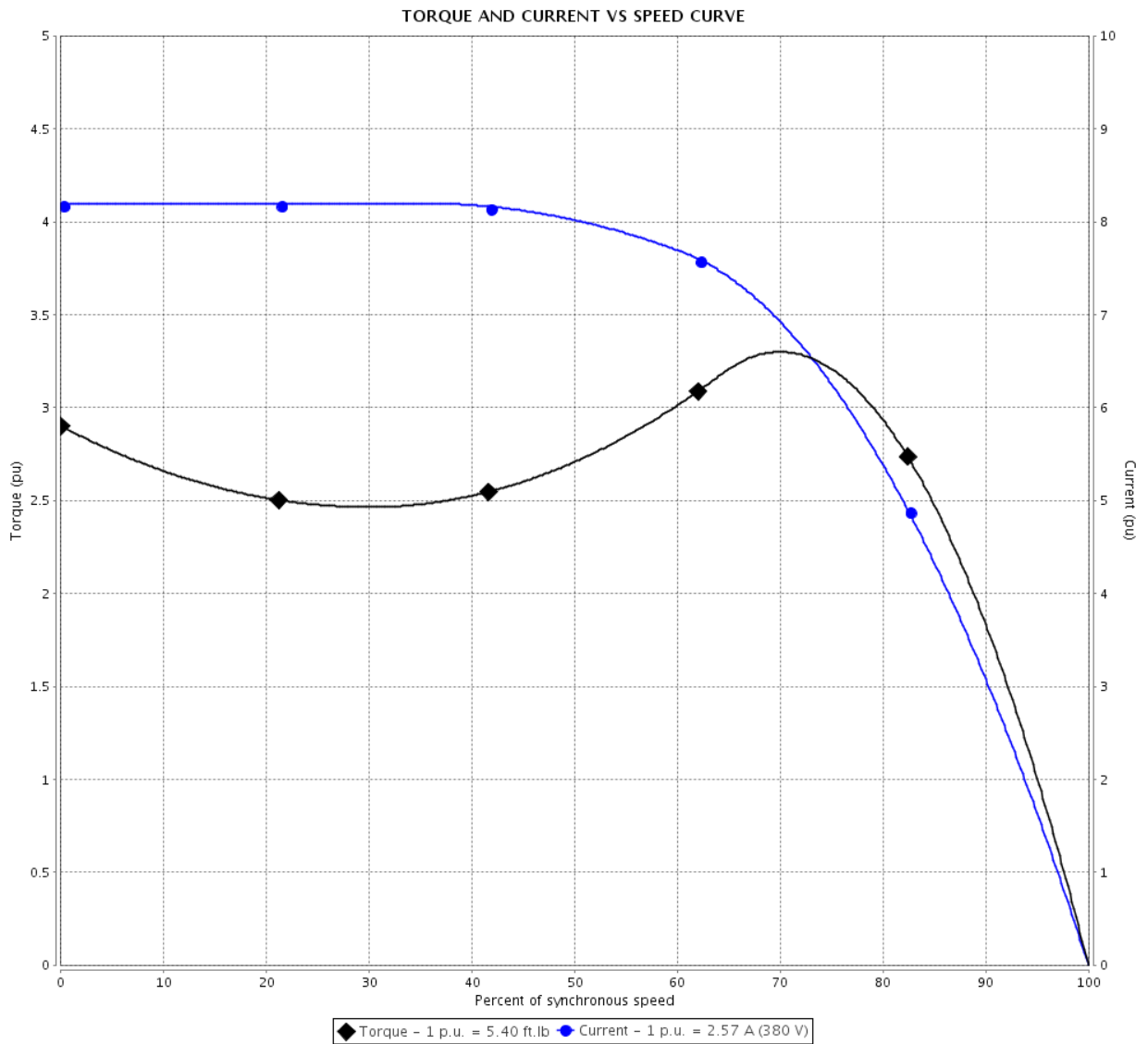
Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 11416577

Catalog # : 00218ET3E145T-W22



Performance : 380 V 50 Hz 4P IE3

Rated current : 2.57 A
LRC : 8.2
Rated torque : 5.40 ft.lb
Locked rotor torque : 290 %
Breakdown torque : 330 %
Rated speed : 1460 rpm

Moment of inertia (J) : 0.1561 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

Locked rotor time : 19s (cold) 11s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

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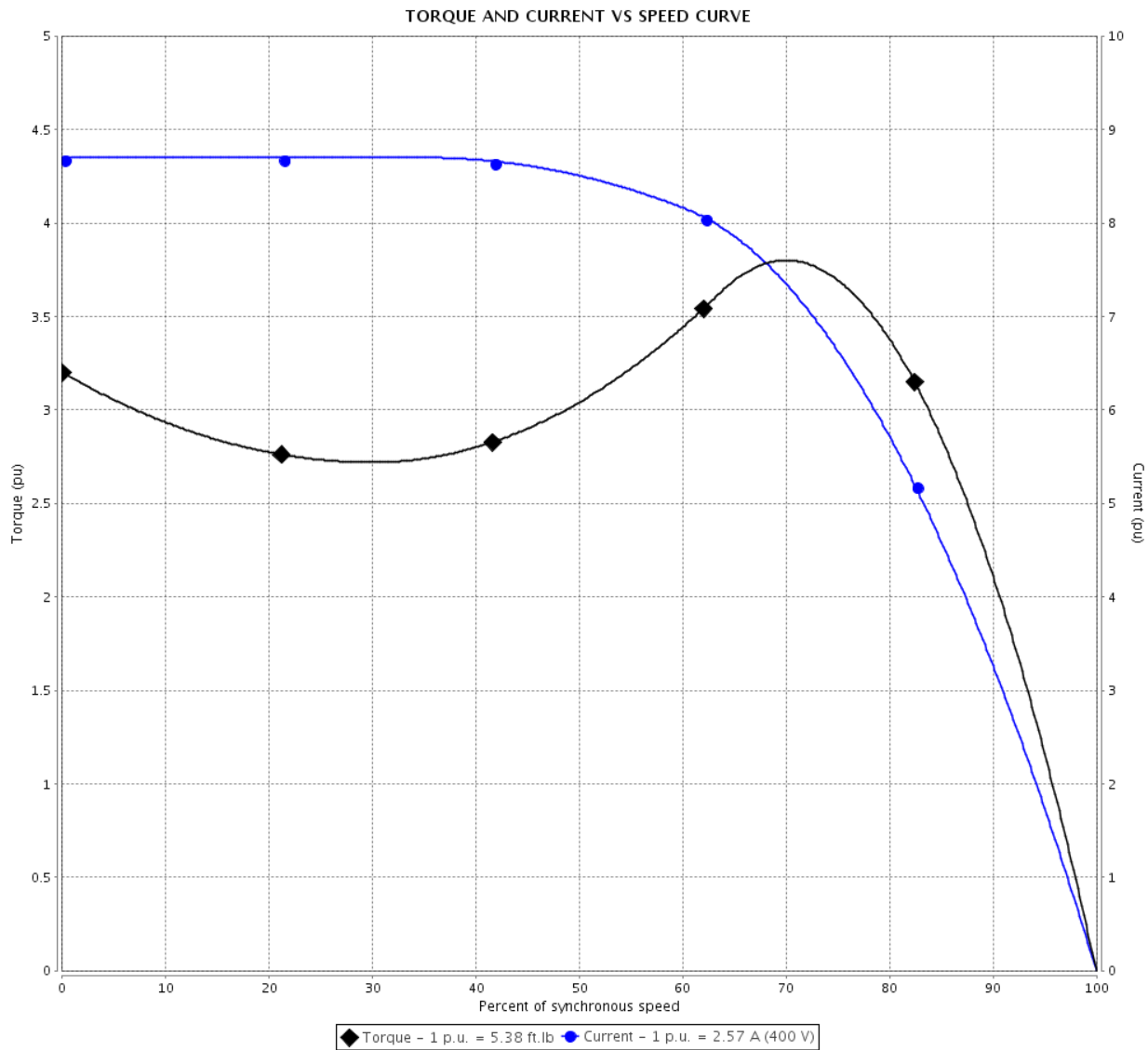


Customer :

Product line : W22 NEMA Premium Efficiency
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Product code : 11416577

Catalog # : 00218ET3E145T-W22



Performance : 400 V 50 Hz 4P IE3

Rated current	: 2.57 A	Moment of inertia (J)	: 0.1561 sq.ft.lb
LRC	: 8.7	Duty cycle	: Cont.(S1)
Rated torque	: 5.38 ft.lb	Insulation class	: F
Locked rotor torque	: 320 %	Service factor	: 1.25
Breakdown torque	: 380 %	Temperature rise	: 80 K
Rated speed	: 1465 rpm	Design	: B

Locked rotor time : 19s (cold) 11s (hot)

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TORQUE AND CURRENT VS SPEED CURVE



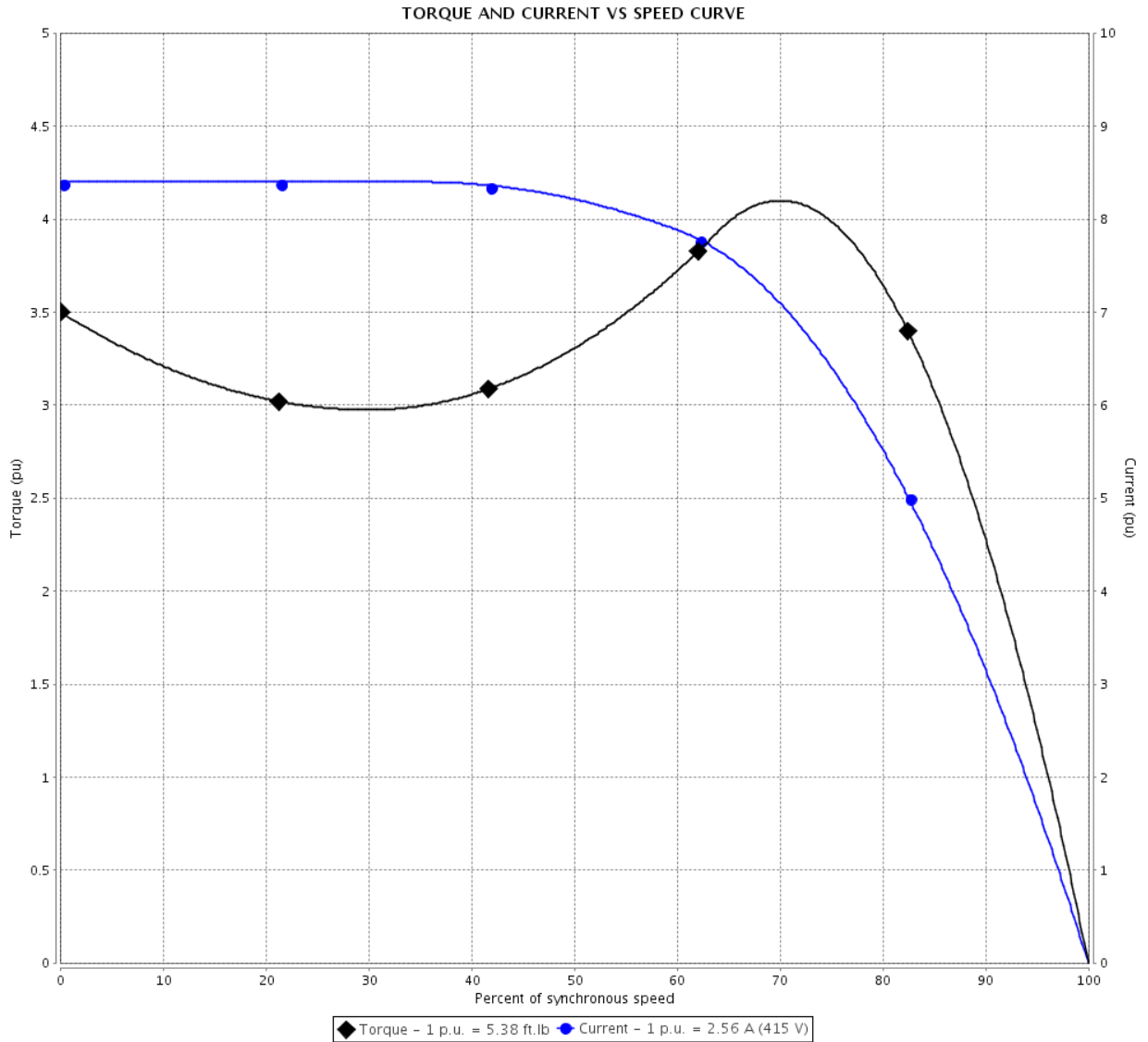
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Performance : 415 V 50 Hz 4P IE3

Rated current : 2.56 A
LRC : 8.4
Rated torque : 5.38 ft.lb
Locked rotor torque : 350 %
Breakdown torque : 409 %
Rated speed : 1465 rpm

Moment of inertia (J) : 0.1561 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

Locked rotor time : 19s (cold) 11s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

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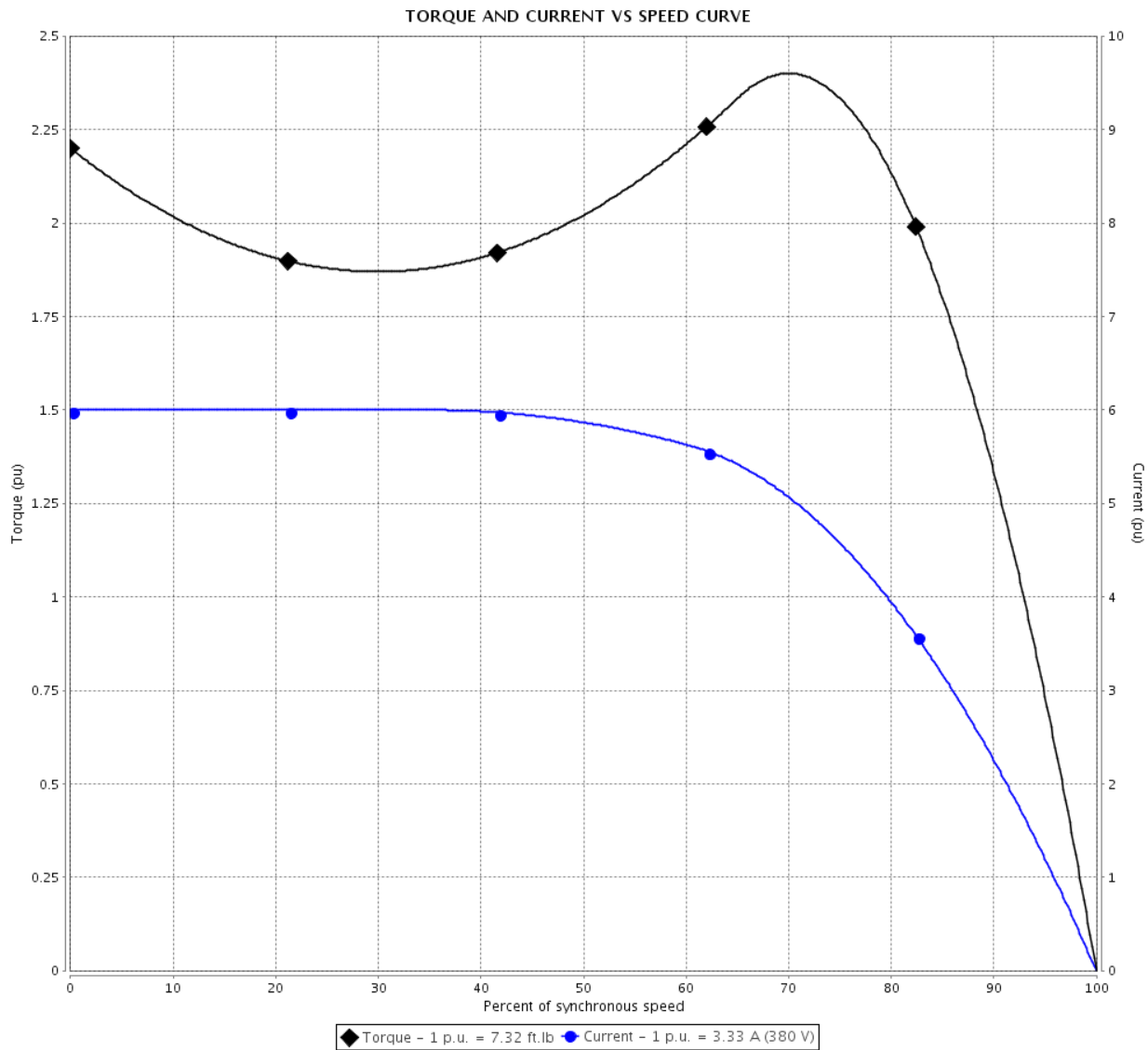


Customer :

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Product code : 11416577

Catalog # : 00218ET3E145T-W22



Performance : 380 V 50 Hz 4P IE1

Rated current	: 3.33 A	Moment of inertia (J)	: 0.1561 sq.ft.lb
LRC	: 6.0	Duty cycle	: Cont.(S1)
Rated torque	: 7.32 ft.lb	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.25
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 1435 rpm	Design	: B

Locked rotor time : 19s (cold) 11s (hot)

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TORQUE AND CURRENT VS SPEED CURVE



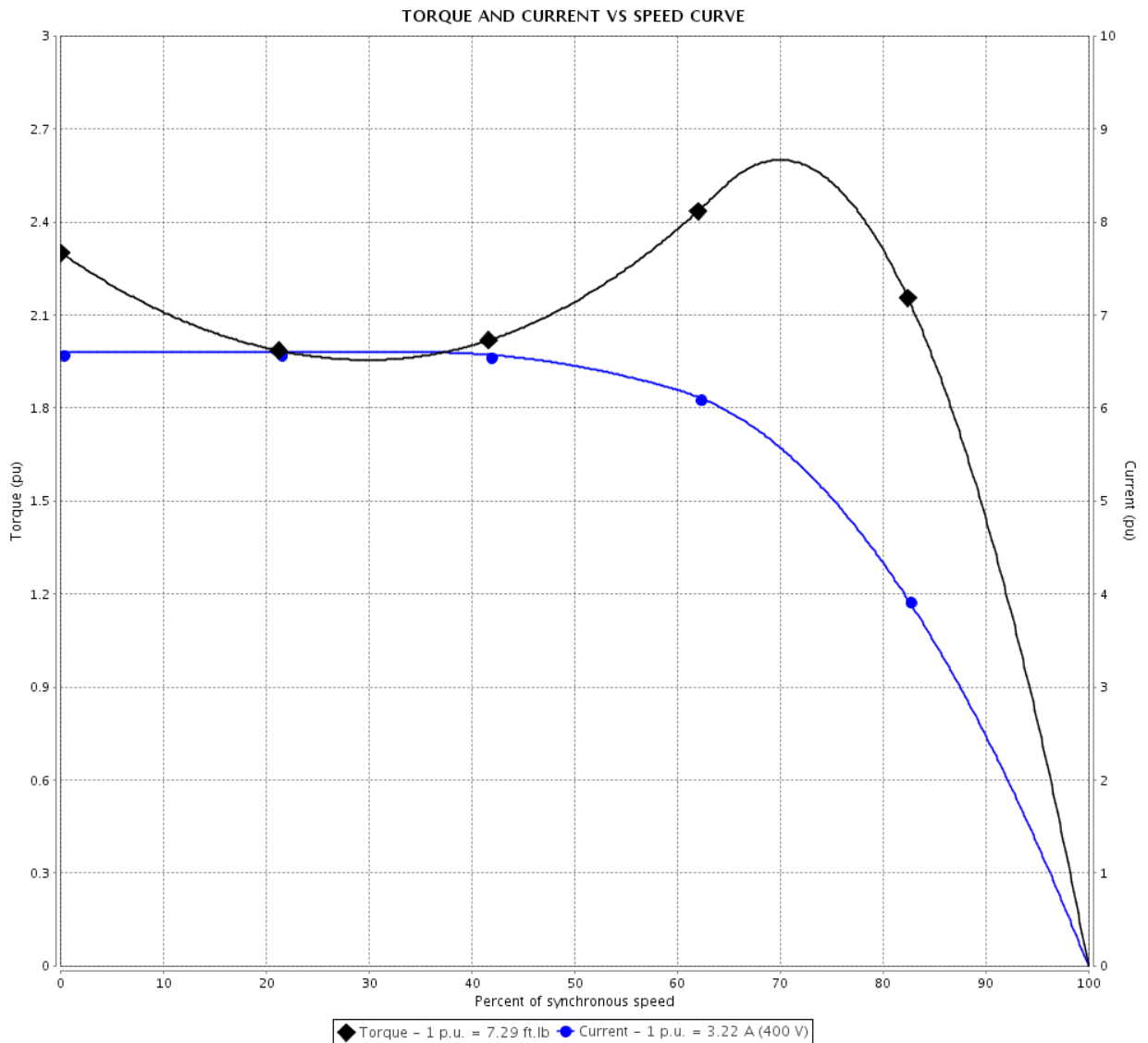
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Customer :

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Product code : 11416577

Catalog # : 00218ET3E145T-W22



Performance : 400 V 50 Hz 4P IE2

Rated current	: 3.22 A	Moment of inertia (J)	: 0.1561 sq.ft.lb
LRC	: 6.6	Duty cycle	: Cont.(S1)
Rated torque	: 7.29 ft.lb	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.25
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1440 rpm	Design	: B

Locked rotor time : 19s (cold) 11s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

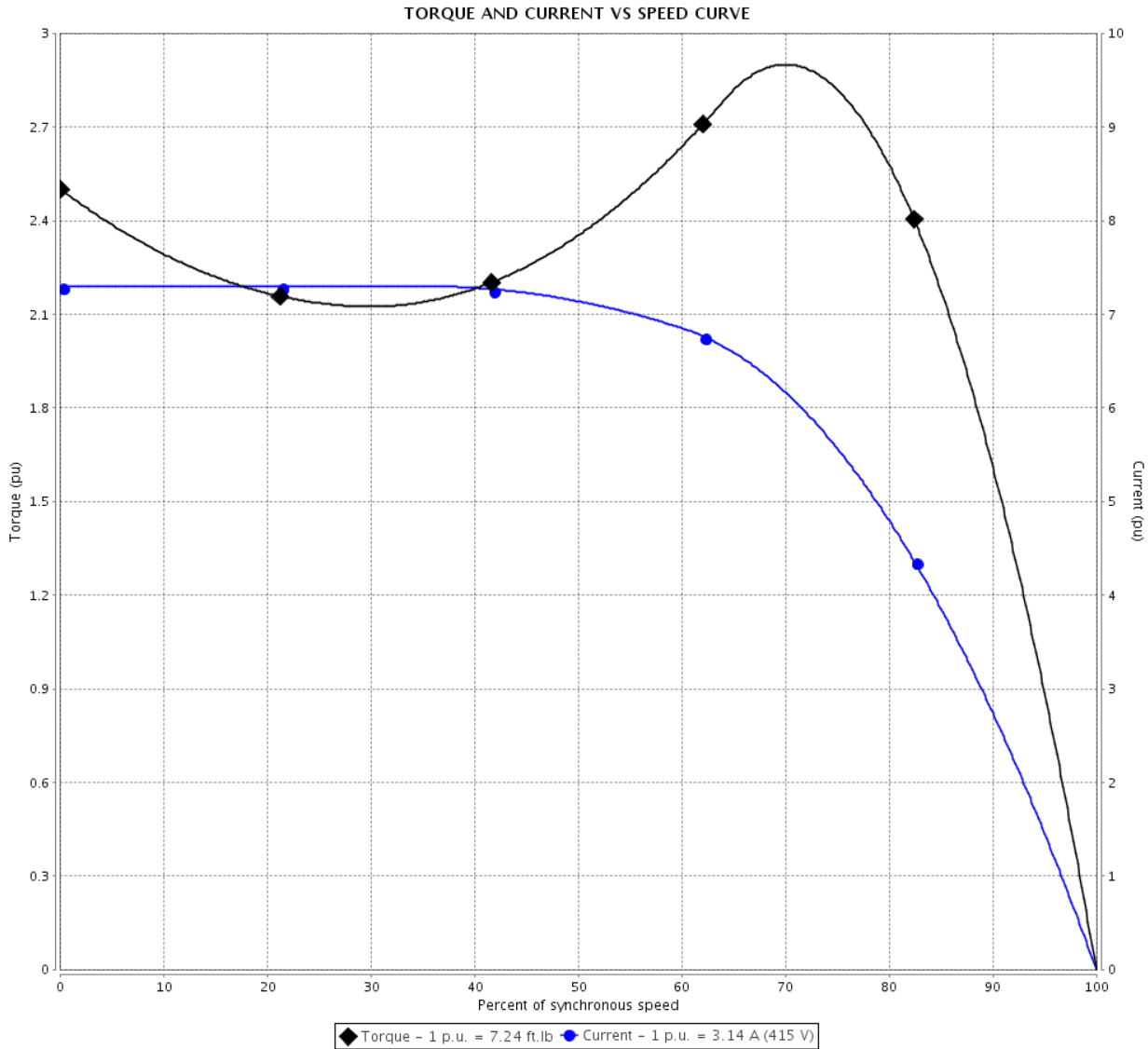


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Catalog # : 00218ET3E145T-W22



Performance : 415 V 50 Hz 4P IE2

Rated current	: 3.14 A	Moment of inertia (J)	: 0.1561 sq.ft.lb
LRC	: 7.3	Duty cycle	: Cont.(S1)
Rated torque	: 7.24 ft.lb	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.25
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 1450 rpm	Design	: B

Locked rotor time : 19s (cold) 11s (hot)

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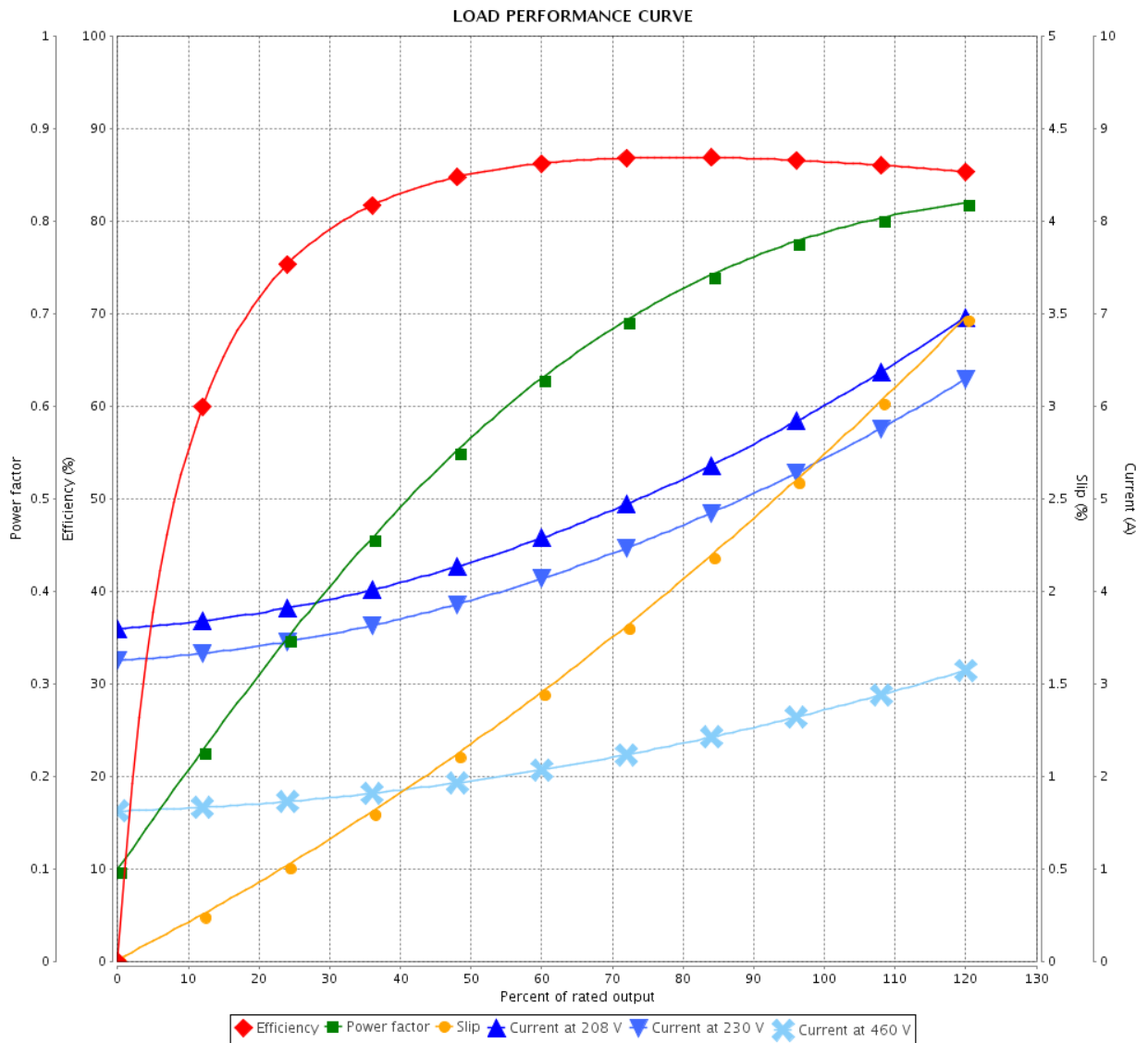


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Performance : 230/460 V 60 Hz 4P

Rated current : 5.52/2.76 A
 LRC : 8.3
 Rated torque : 6.00 ft.lb
 Locked rotor torque : 270 %
 Breakdown torque : 320 %
 Rated speed : 1755 rpm

Moment of inertia (J) : 0.1561 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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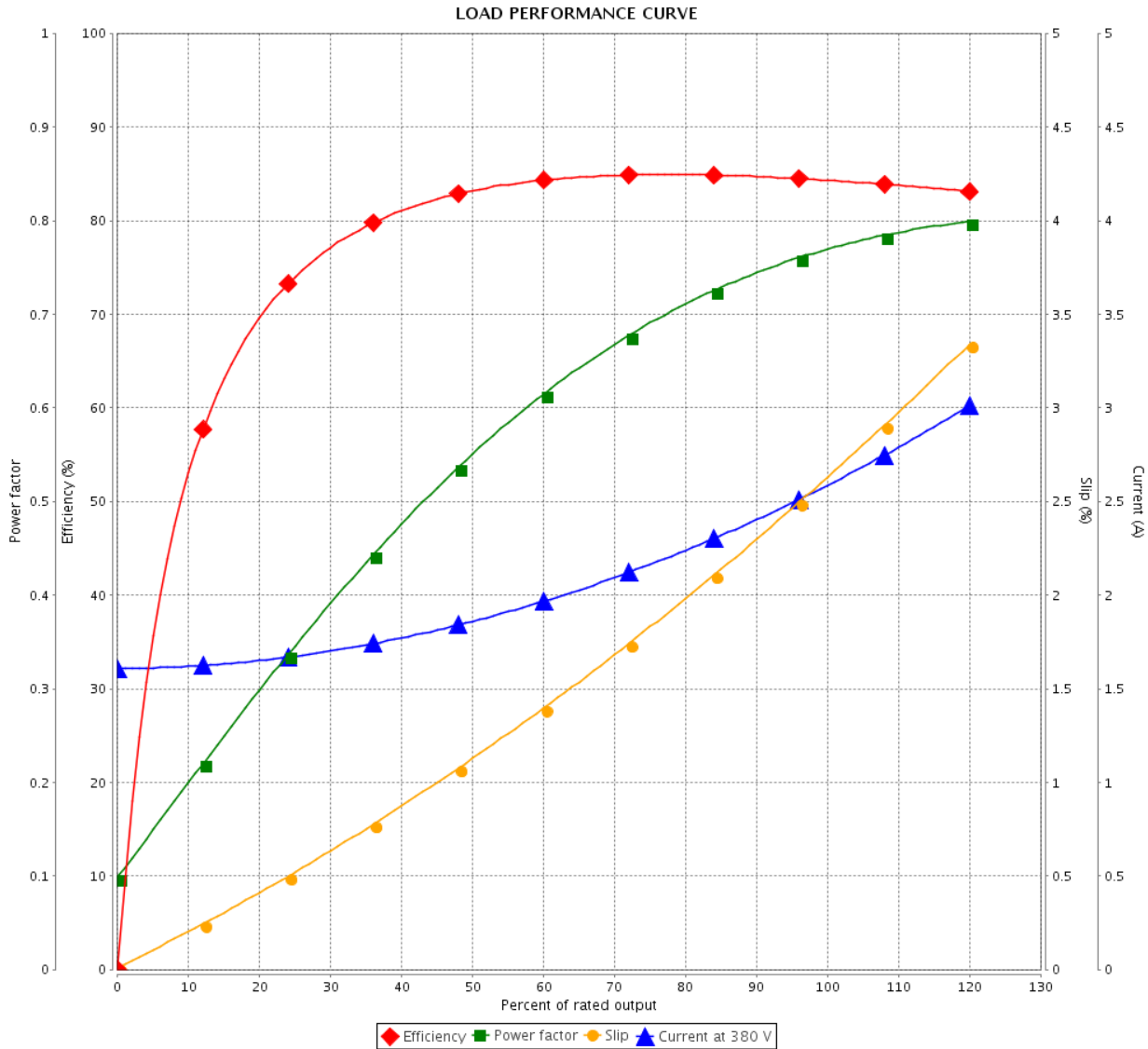


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Performance : 380 V 50 Hz 4P IE3

Rated current : 2.57 A
LRC : 8.2
Rated torque : 5.40 ft.lb
Locked rotor torque : 290 %
Breakdown torque : 330 %
Rated speed : 1460 rpm

Moment of inertia (J) : 0.1561 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

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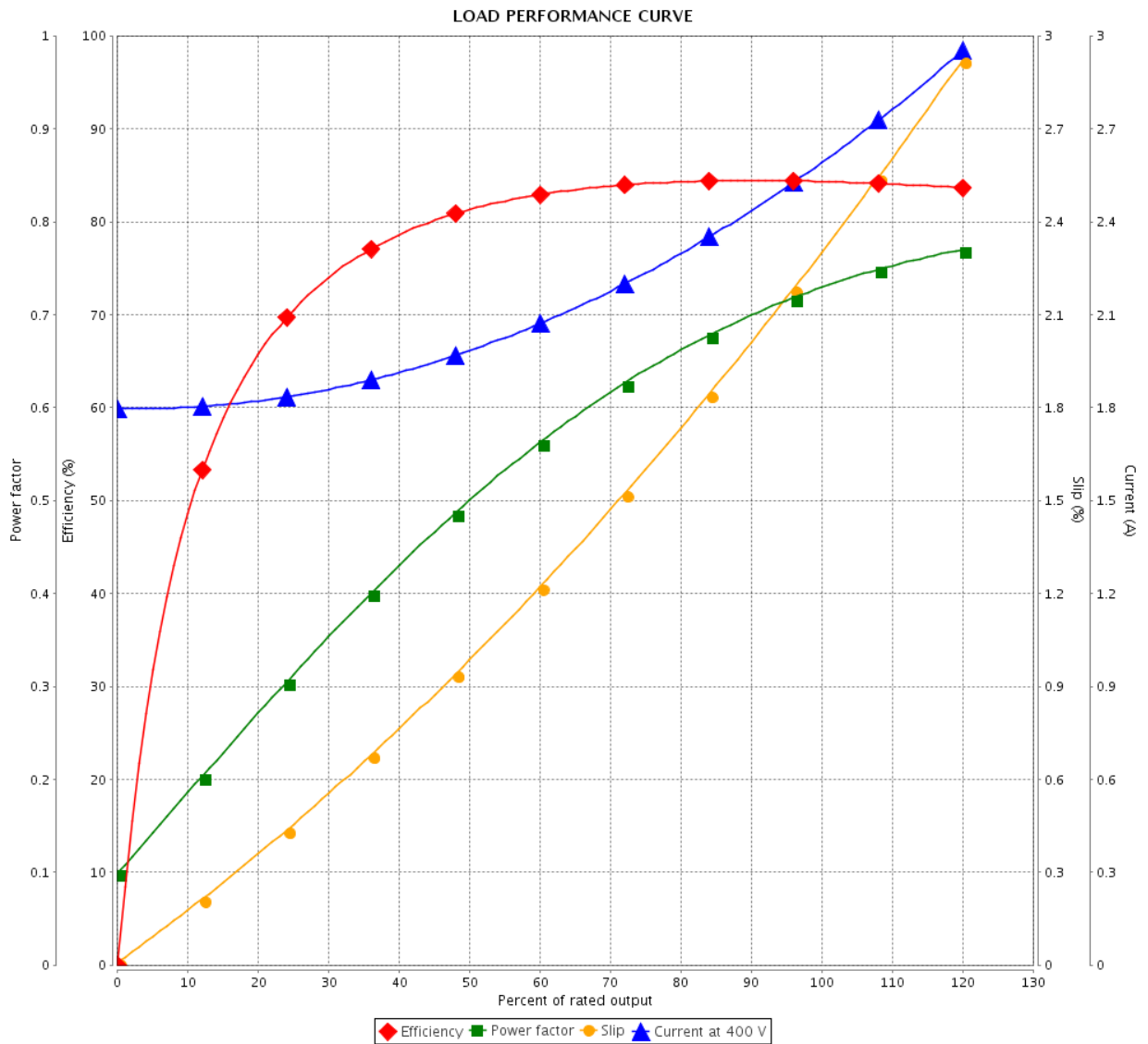


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Performance : 400 V 50 Hz 4P IE3

Rated current : 2.57 A
LRC : 8.7
Rated torque : 5.38 ft.lb
Locked rotor torque : 320 %
Breakdown torque : 380 %
Rated speed : 1465 rpm

Moment of inertia (J) : 0.1561 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

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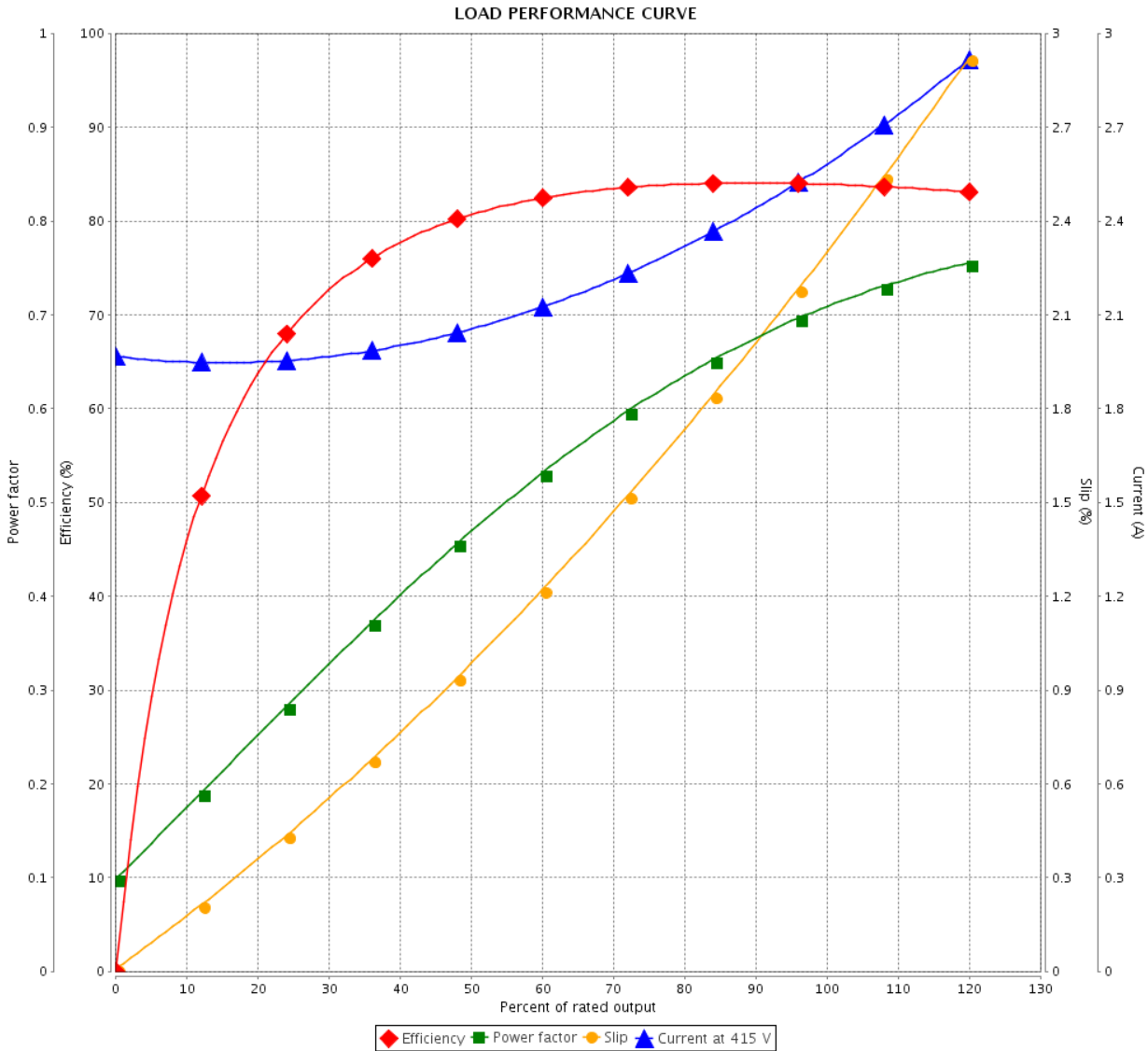


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Performance : 415 V 50 Hz 4P IE3

Rated current : 2.56 A
 LRC : 8.4
 Rated torque : 5.38 ft.lb
 Locked rotor torque : 350 %
 Breakdown torque : 409 %
 Rated speed : 1465 rpm

Moment of inertia (J) : 0.1561 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

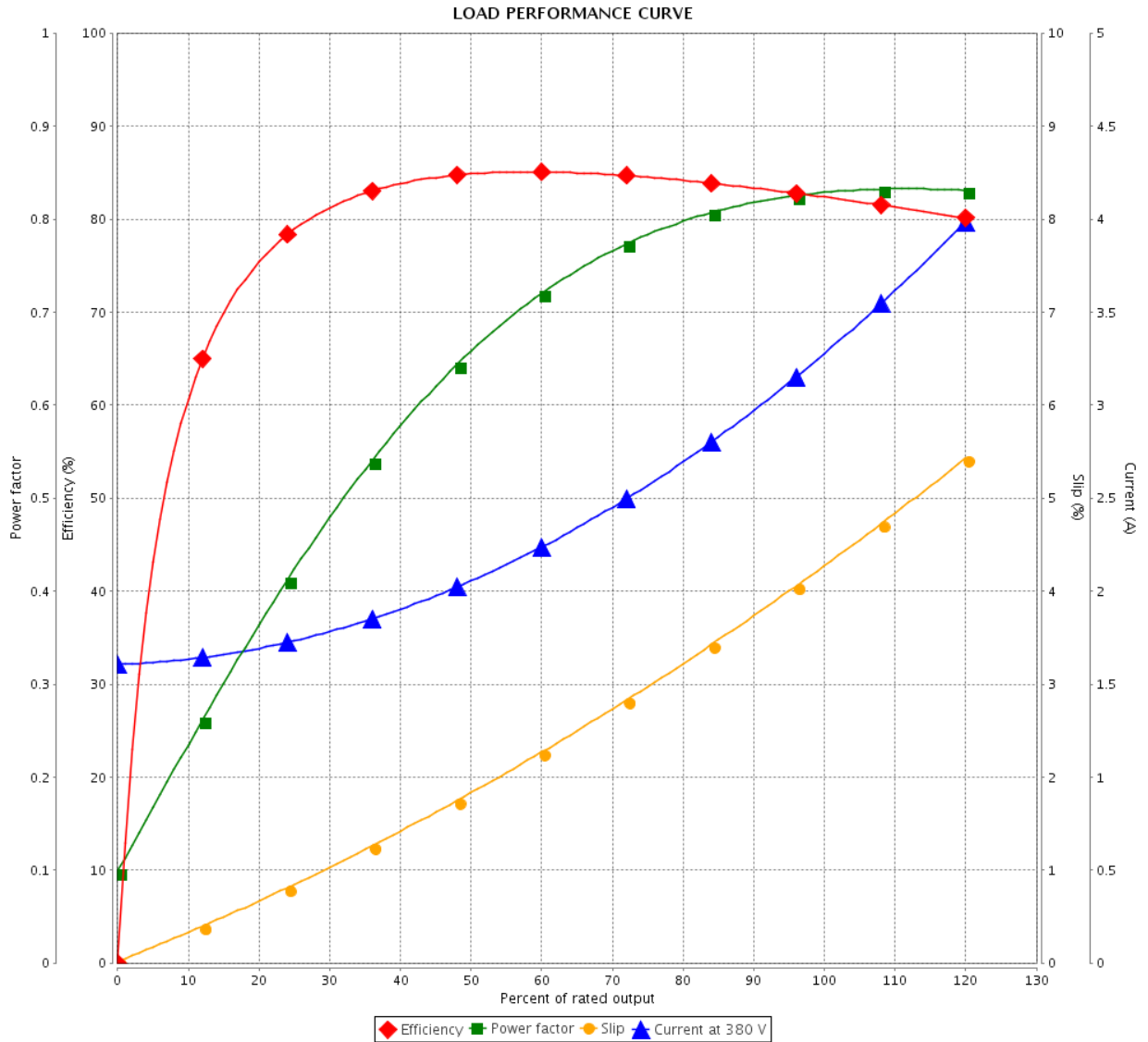


Customer :

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Product code : 11416577

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Performance : 380 V 50 Hz 4P IE1

Rated current : 3.33 A
 LRC : 6.0
 Rated torque : 7.32 ft.lb
 Locked rotor torque : 220 %
 Breakdown torque : 240 %
 Rated speed : 1435 rpm

Moment of inertia (J) : 0.1561 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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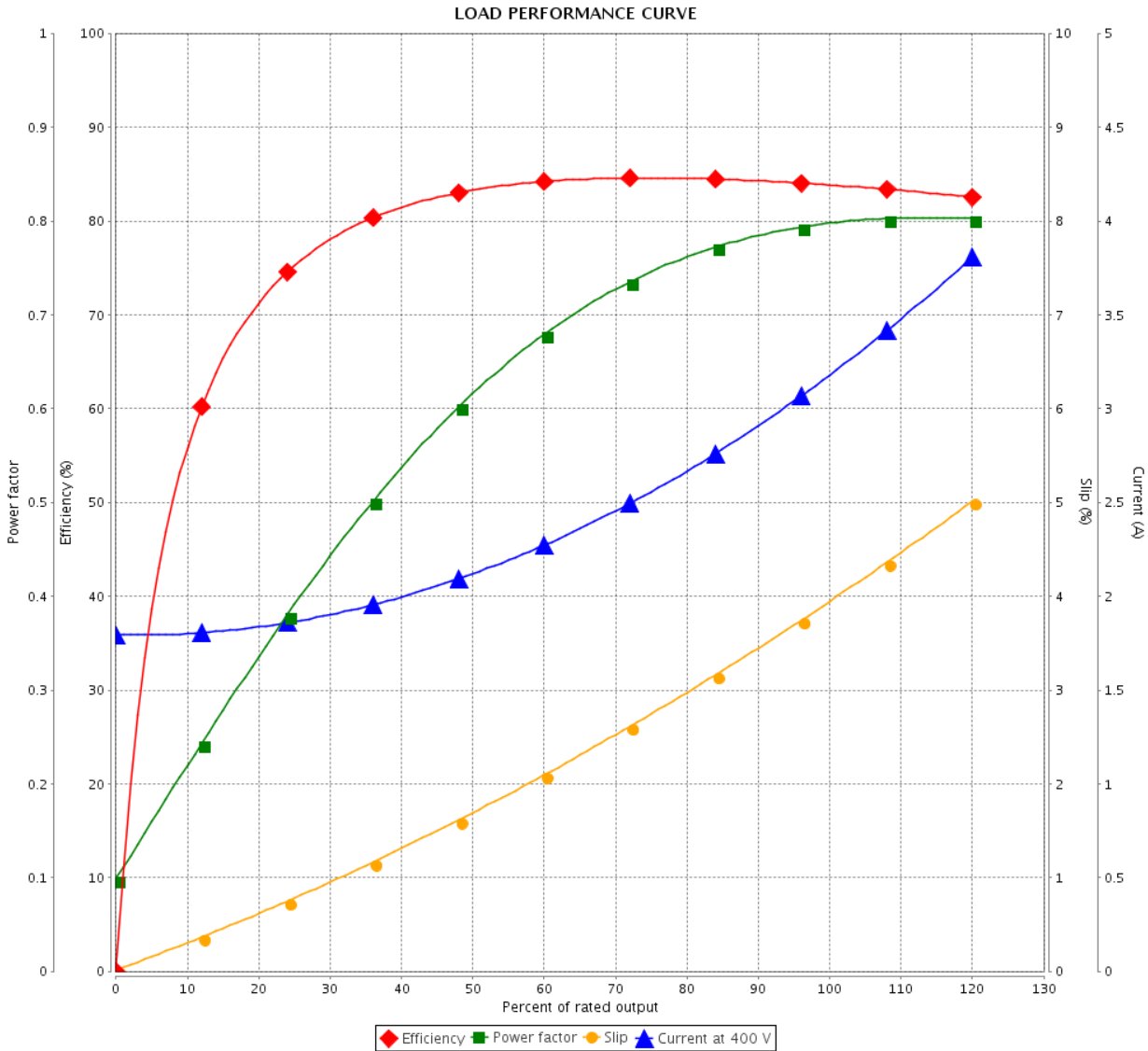


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Product code : 11416577

Catalog # : 00218ET3E145T-W22



Performance : 400 V 50 Hz 4P IE2

Rated current : 3.22 A
 LRC : 6.6
 Rated torque : 7.29 ft.lb
 Locked rotor torque : 229 %
 Breakdown torque : 260 %
 Rated speed : 1440 rpm

Moment of inertia (J) : 0.1561 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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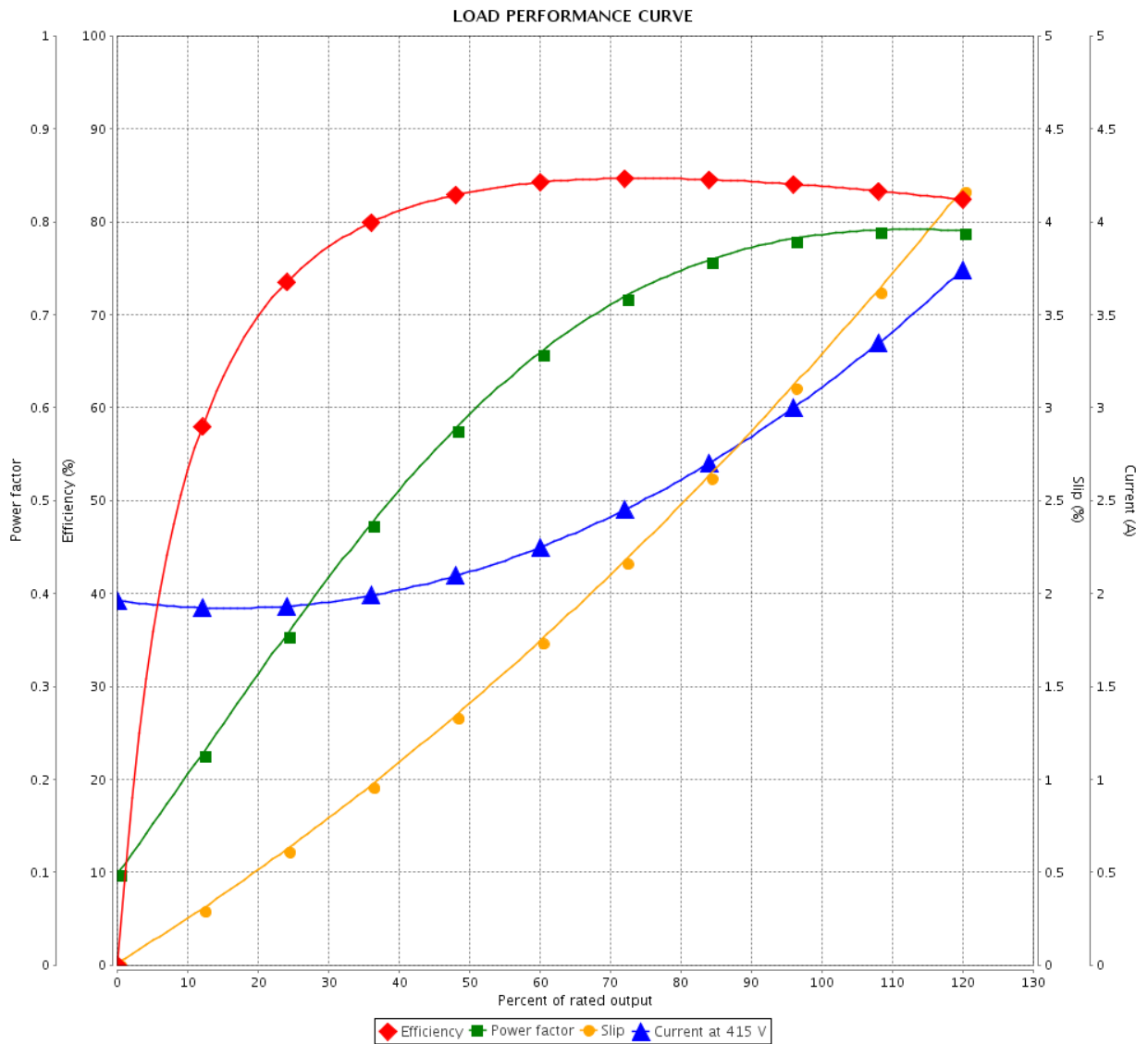


Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11416577

Catalog # : 00218ET3E145T-W22



Performance : 415 V 50 Hz 4P IE2

Rated current : 3.14 A
 LRC : 7.3
 Rated torque : 7.24 ft.lb
 Locked rotor torque : 250 %
 Breakdown torque : 290 %
 Rated speed : 1450 rpm

Moment of inertia (J) : 0.1561 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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THERMAL LIMIT CURVE



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Performance : 230/460 V 60 Hz 4P

Rated current : 5.52/2.76 A
LRC : 8.3
Rated torque : 6.00 ft.lb
Locked rotor torque : 270 %
Breakdown torque : 320 %
Rated speed : 1755 rpm

Moment of inertia (J) : 0.1561 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

Heating constant

Cooling constant

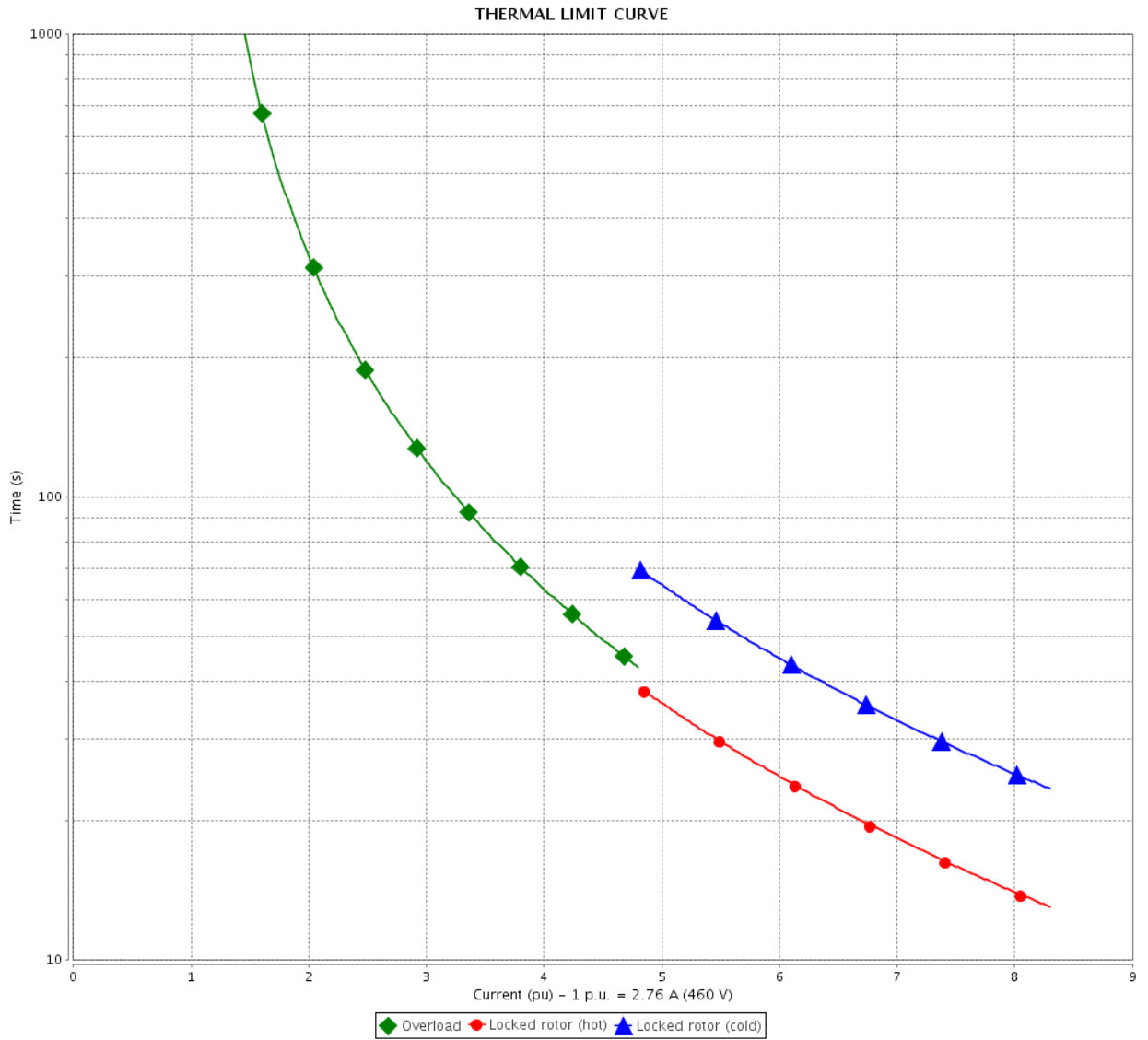
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Three Phase Induction Motor - Squirrel Cage



Customer : _____



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Catalog # : 00218ET3E145T-W22

Performance : 380 V 50 Hz 4P IE3

Rated current : 2.57 A
LRC : 8.2
Rated torque : 5.40 ft.lb
Locked rotor torque : 290 %
Breakdown torque : 330 %
Rated speed : 1460 rpm

Moment of inertia (J) : 0.1561 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
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Heating constant

Cooling constant

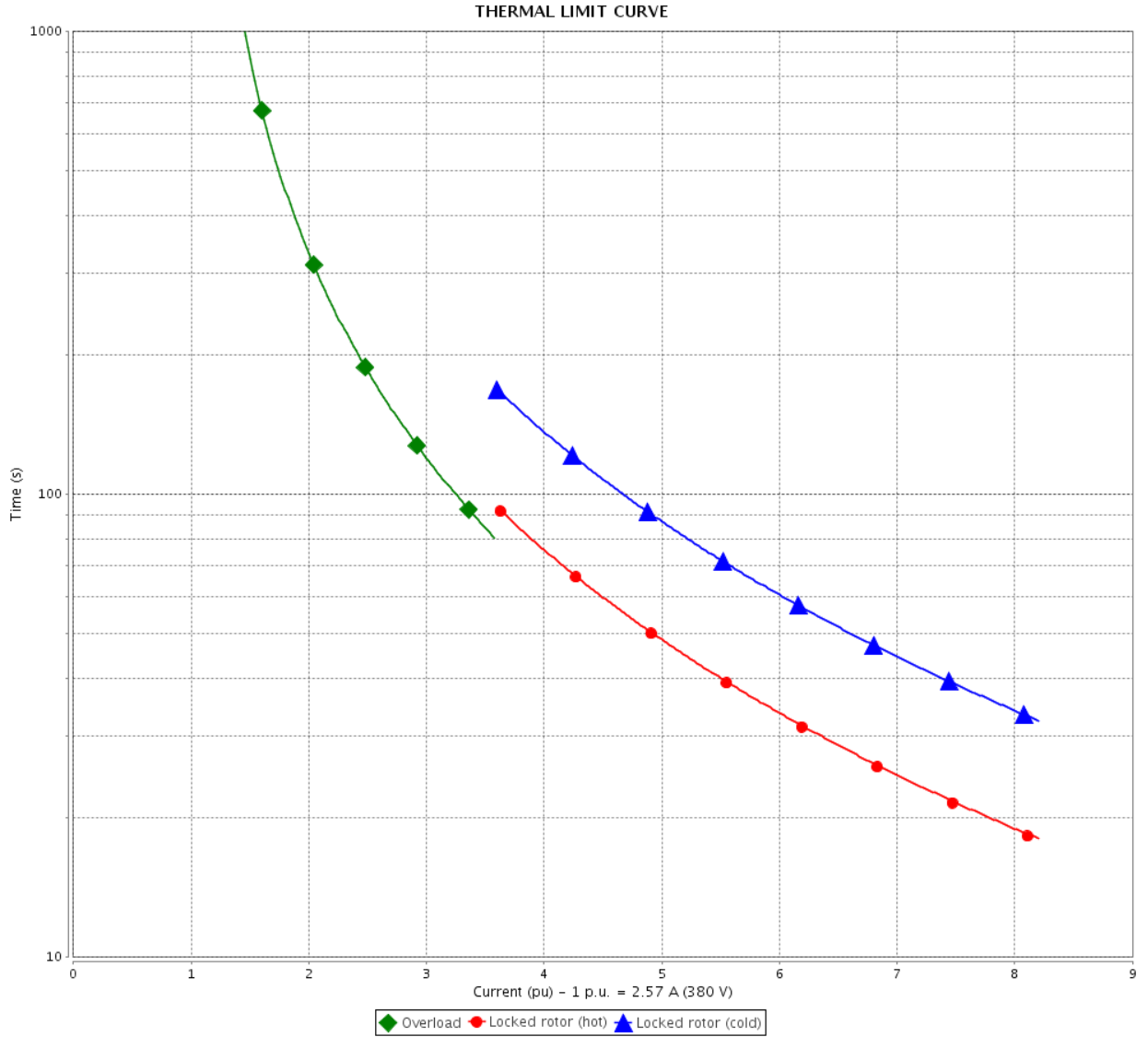
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Three Phase Induction Motor - Squirrel Cage



Customer : _____



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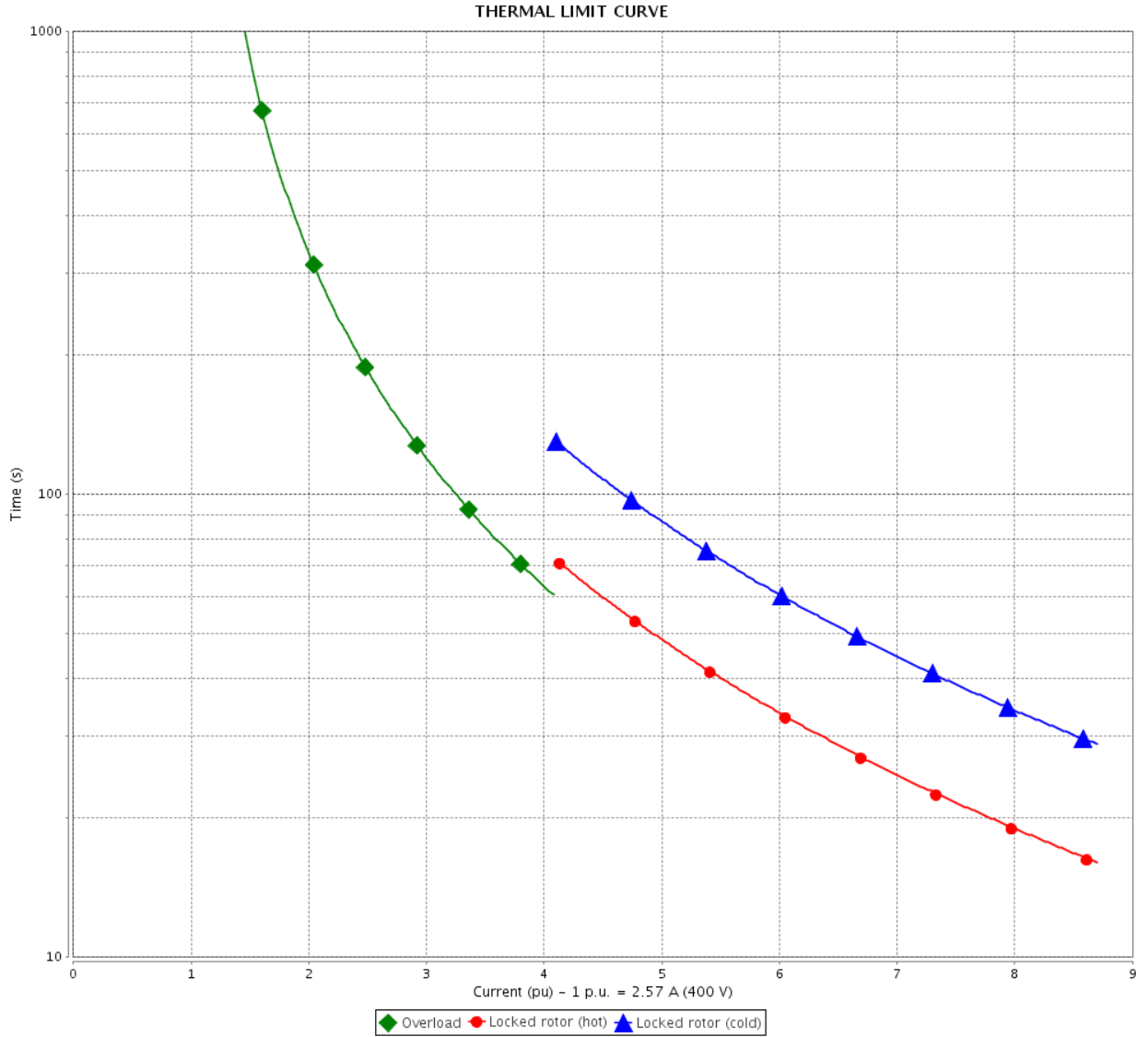
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Breakdown torque : 409 %
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Service factor : 1.25
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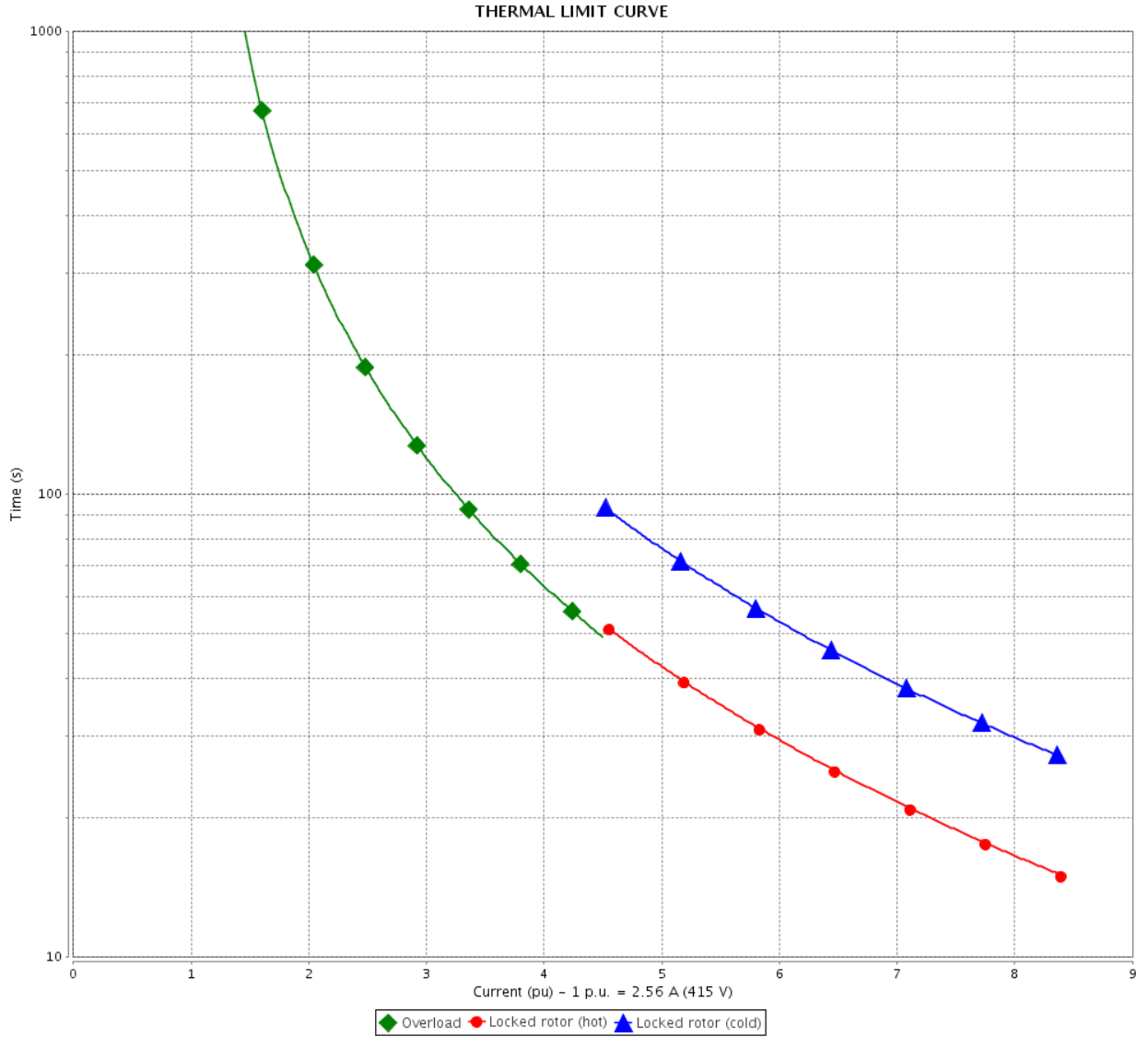
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LRC : 6.0
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Locked rotor torque : 220 %
Breakdown torque : 240 %
Rated speed : 1435 rpm

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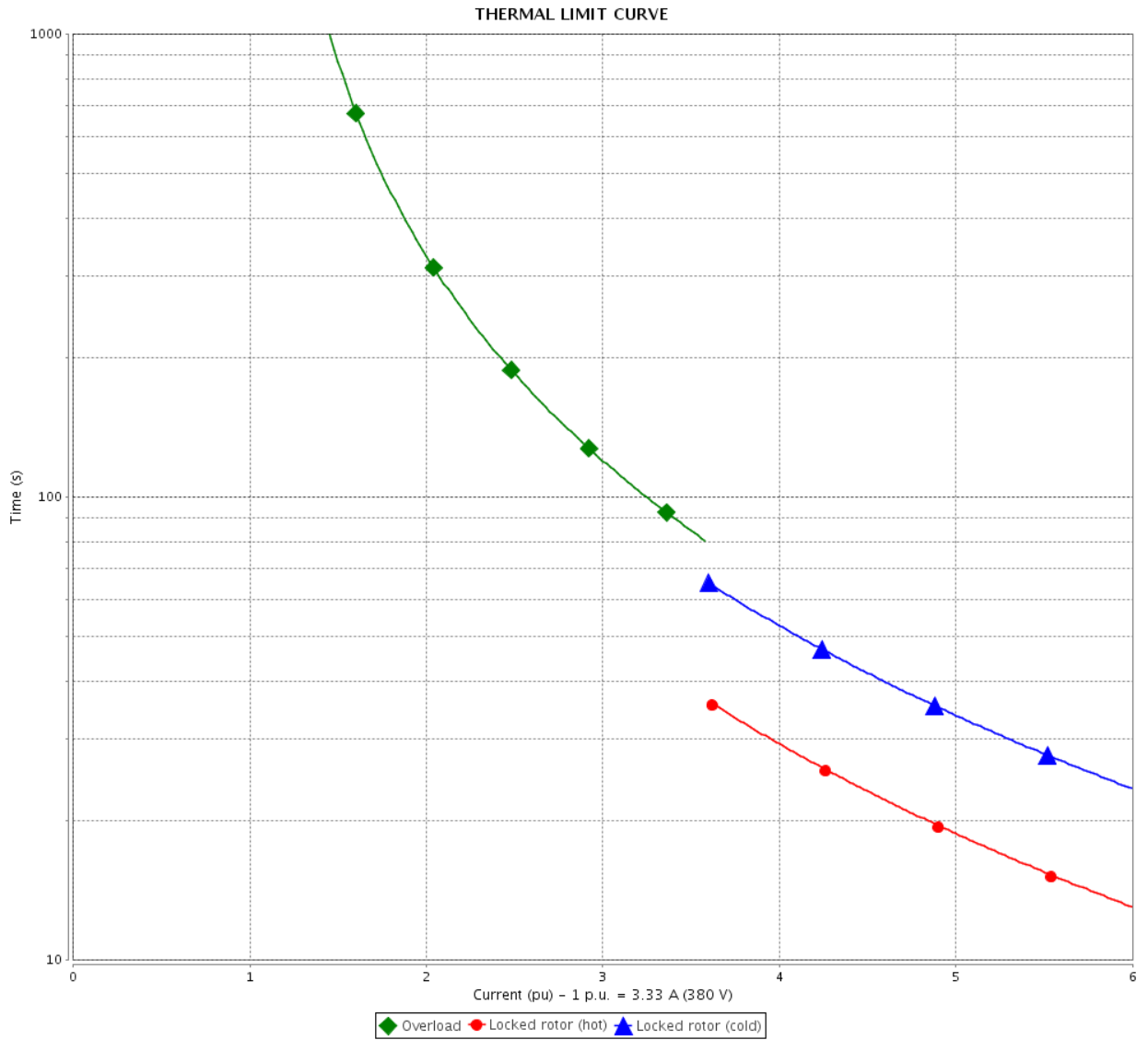
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Performance : 400 V 50 Hz 4P IE2

Rated current : 3.22 A
LRC : 6.6
Rated torque : 7.29 ft.lb
Locked rotor torque : 229 %
Breakdown torque : 260 %
Rated speed : 1440 rpm

Moment of inertia (J) : 0.1561 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

Heating constant

Cooling constant

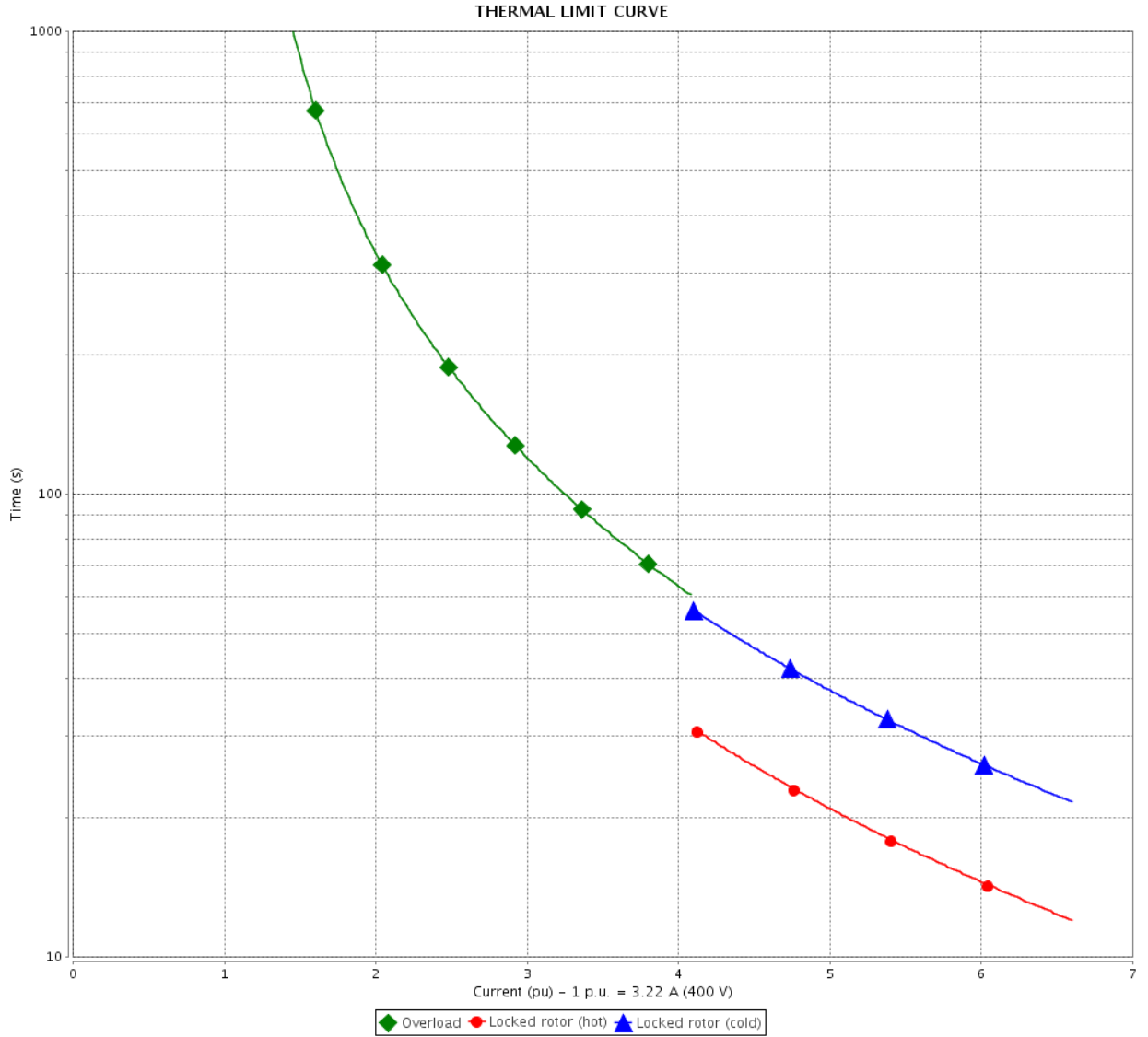
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by				
Date	22/03/2021		Page 26 / 36	Revision

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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Date				

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 11416577

Catalog # : 00218ET3E145T-W22

Performance : 415 V 50 Hz 4P IE2

Rated current : 3.14 A
LRC : 7.3
Rated torque : 7.24 ft.lb
Locked rotor torque : 250 %
Breakdown torque : 290 %
Rated speed : 1450 rpm

Moment of inertia (J) : 0.1561 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

Heating constant

Cooling constant

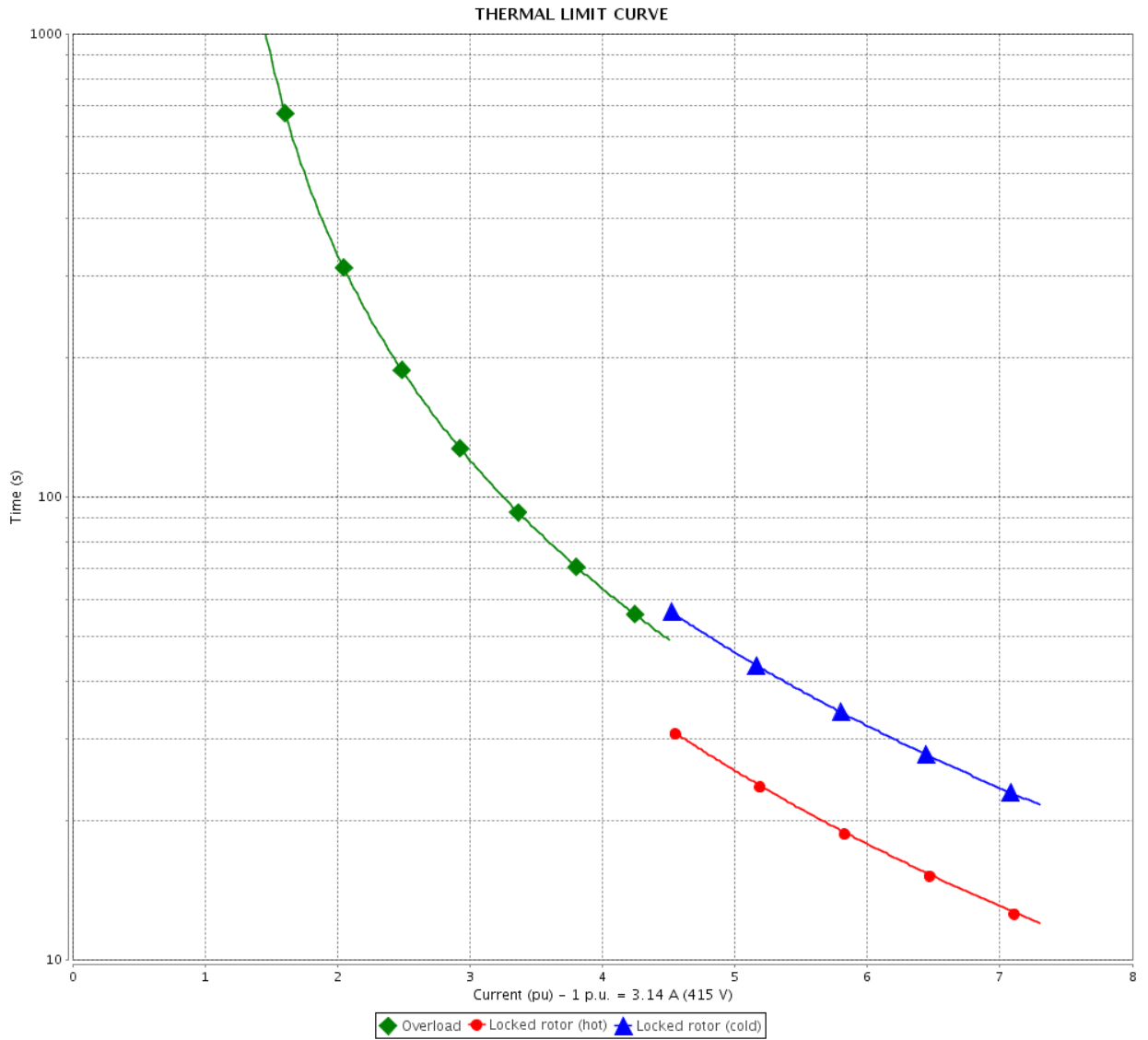
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Checked by			Page	Revision
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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Checked by				
Date				

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

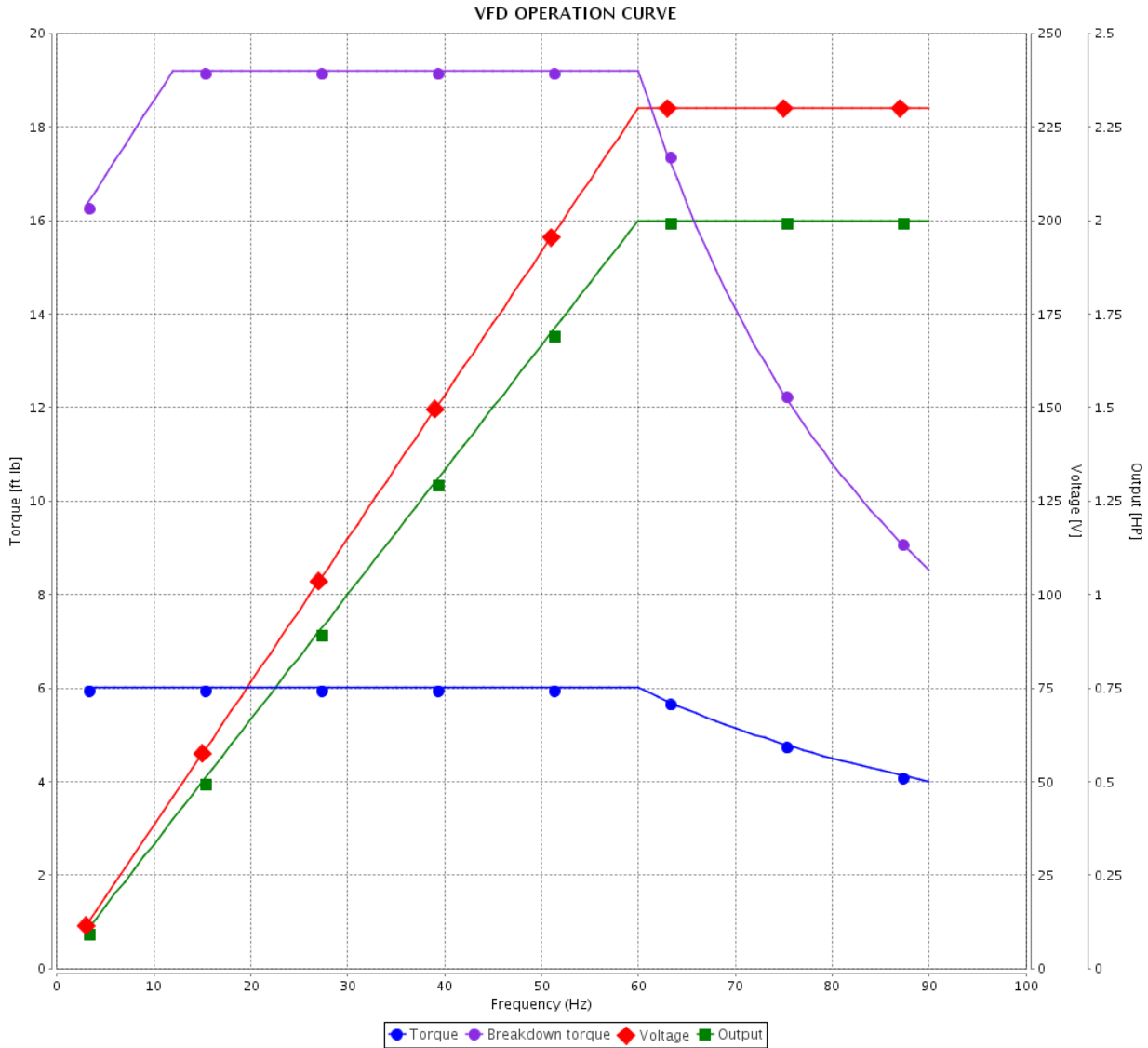


Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11416577

Catalog # : 00218ET3E145T-W22



Performance : 230/460 V 60 Hz 4P

Rated current : 5.52/2.76 A
 LRC : 8.3
 Rated torque : 6.00 ft.lb
 Locked rotor torque : 270 %
 Breakdown torque : 320 %
 Rated speed : 1755 rpm

Moment of inertia (J) : 0.1561 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				

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

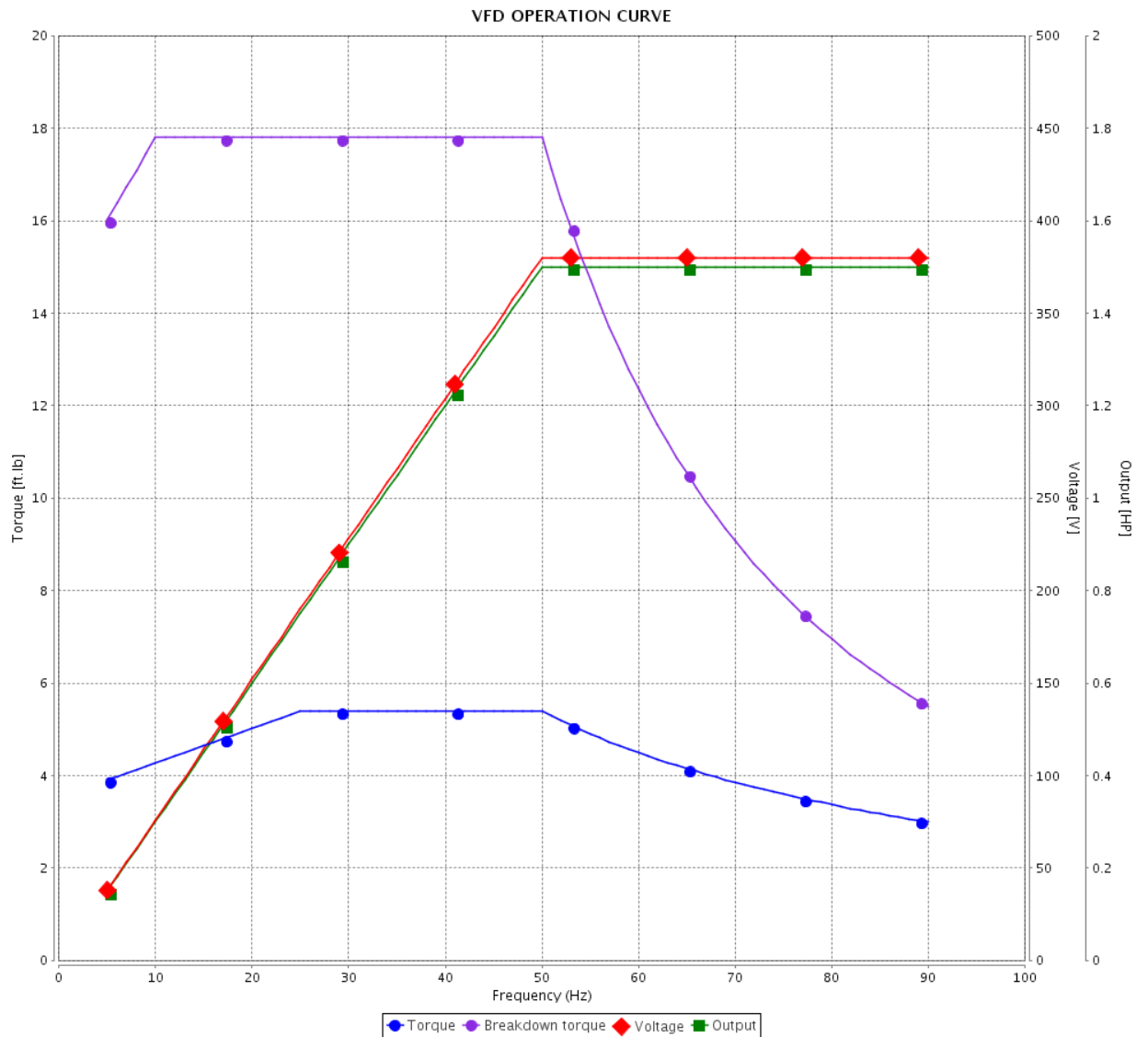


Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 11416577

Catalog # : 00218ET3E145T-W22



Performance : 380 V 50 Hz 4P IE3

Rated current : 2.57 A
LRC : 8.2
Rated torque : 5.40 ft.lb
Locked rotor torque : 290 %
Breakdown torque : 330 %
Rated speed : 1460 rpm

Moment of inertia (J) : 0.1561 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	22/03/2021			

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

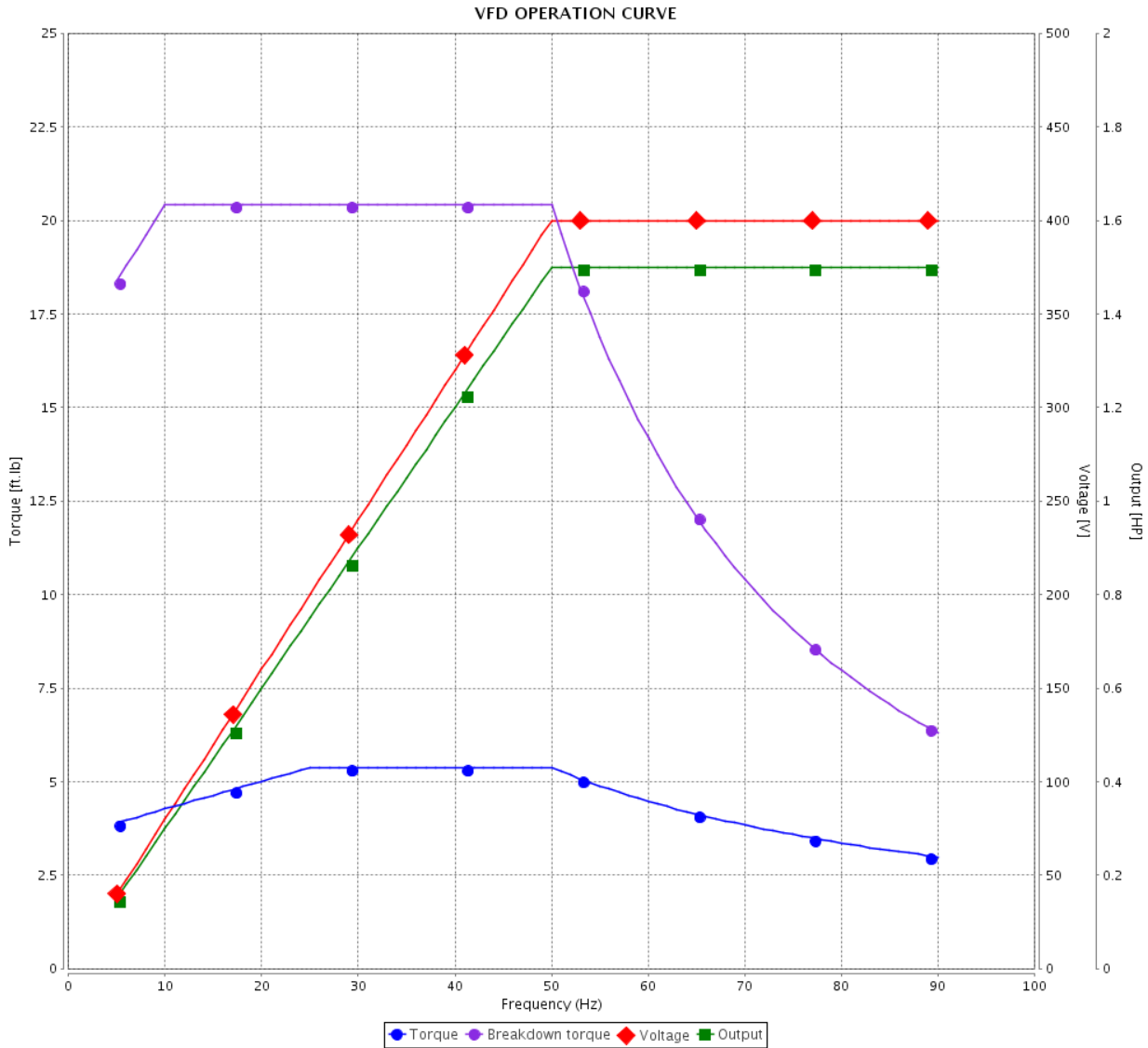


Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 11416577

Catalog # : 00218ET3E145T-W22



Performance : 400 V 50 Hz 4P IE3

Rated current : 2.57 A
 LRC : 8.7
 Rated torque : 5.38 ft.lb
 Locked rotor torque : 320 %
 Breakdown torque : 380 %
 Rated speed : 1465 rpm

Moment of inertia (J) : 0.1561 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 32 / 36	Revision
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

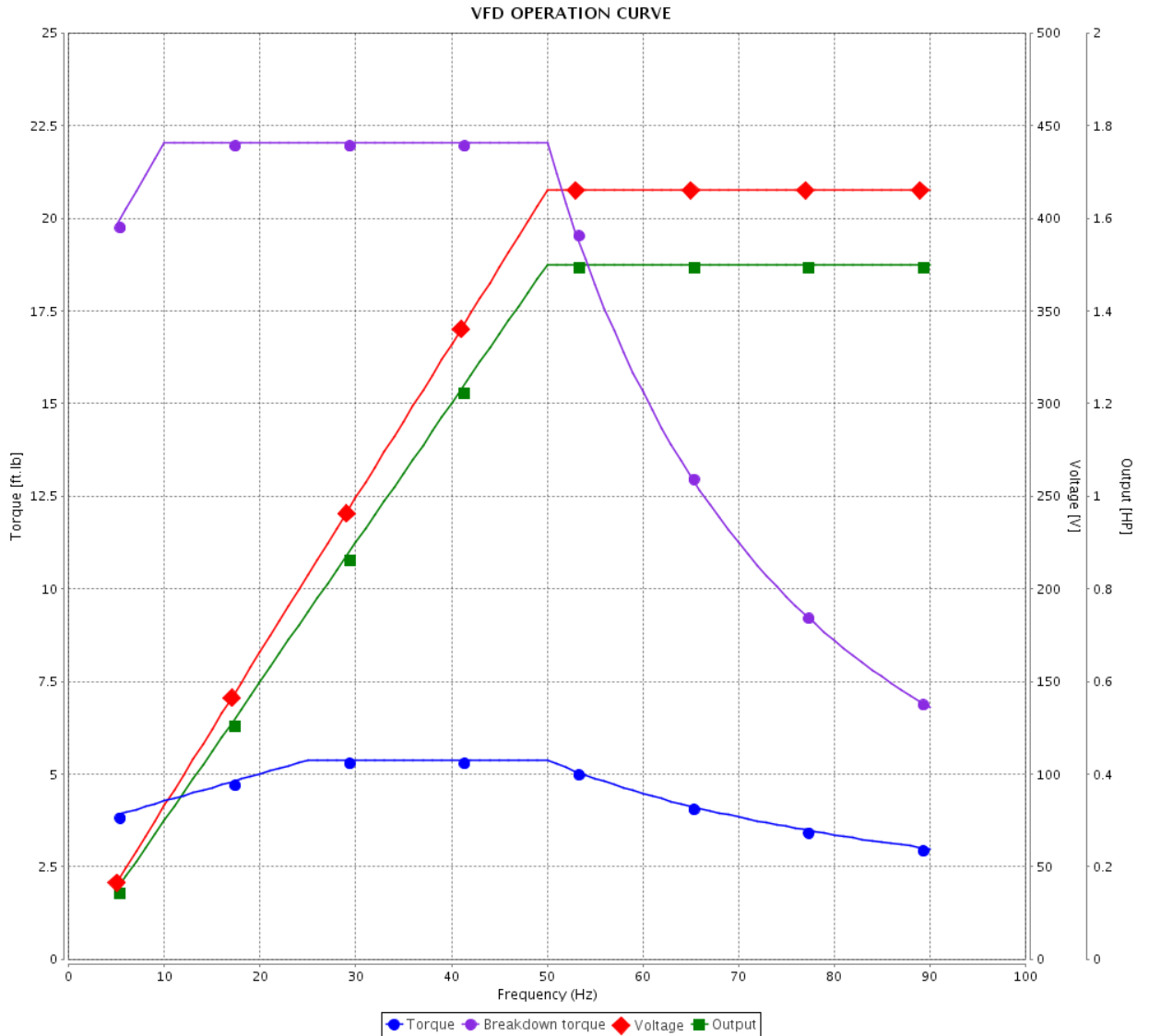


Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 11416577

Catalog # : 00218ET3E145T-W22



Performance : 415 V 50 Hz 4P IE3

Rated current : 2.56 A
LRC : 8.4
Rated torque : 5.38 ft.lb
Locked rotor torque : 350 %
Breakdown torque : 409 %
Rated speed : 1465 rpm

Moment of inertia (J) : 0.1561 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	22/03/2021			

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

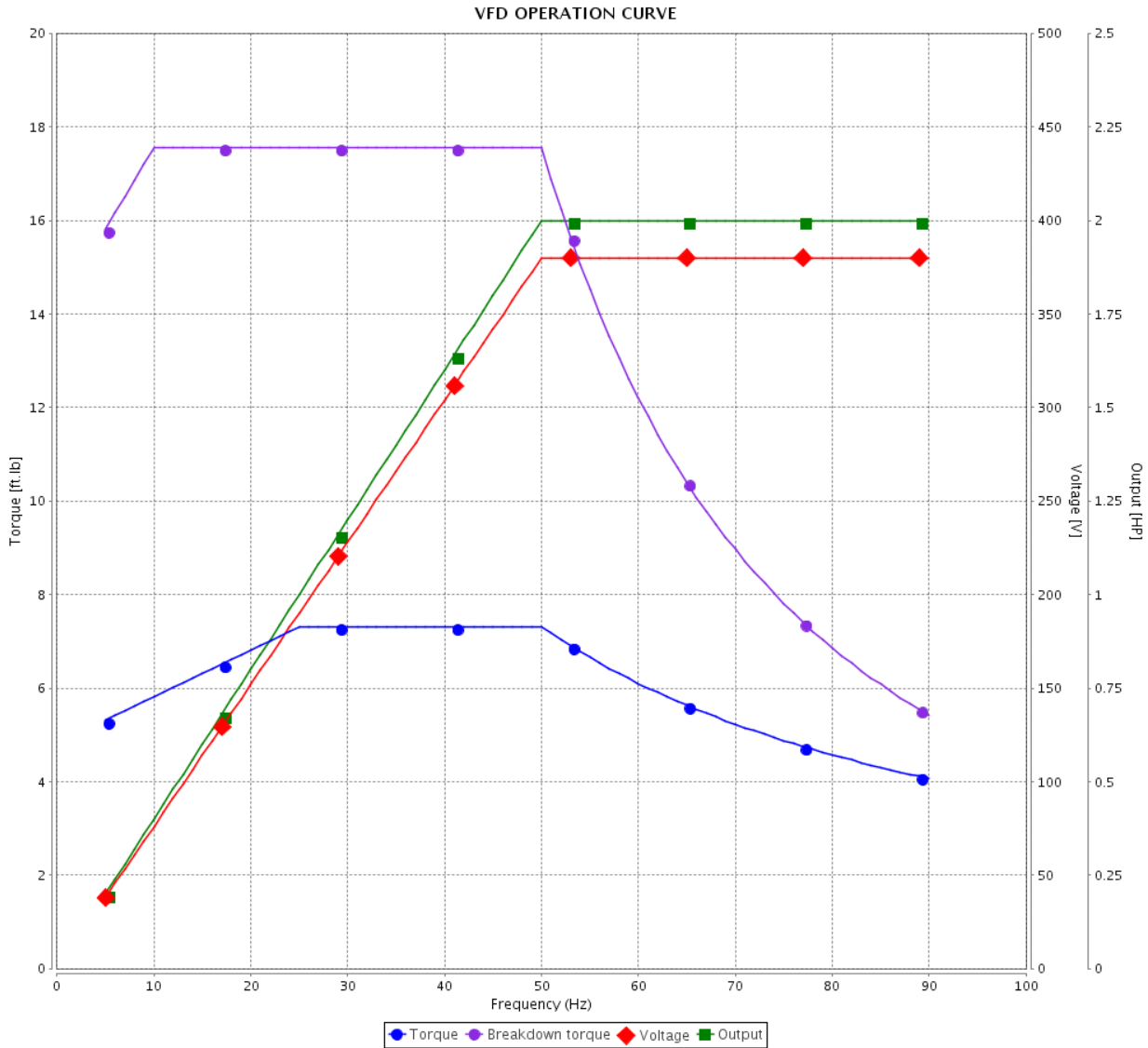


Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 11416577

Catalog # : 00218ET3E145T-W22



Performance : 380 V 50 Hz 4P IE1

Rated current : 3.33 A
LRC : 6.0
Rated torque : 7.32 ft.lb
Locked rotor torque : 220 %
Breakdown torque : 240 %
Rated speed : 1435 rpm

Moment of inertia (J) : 0.1561 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

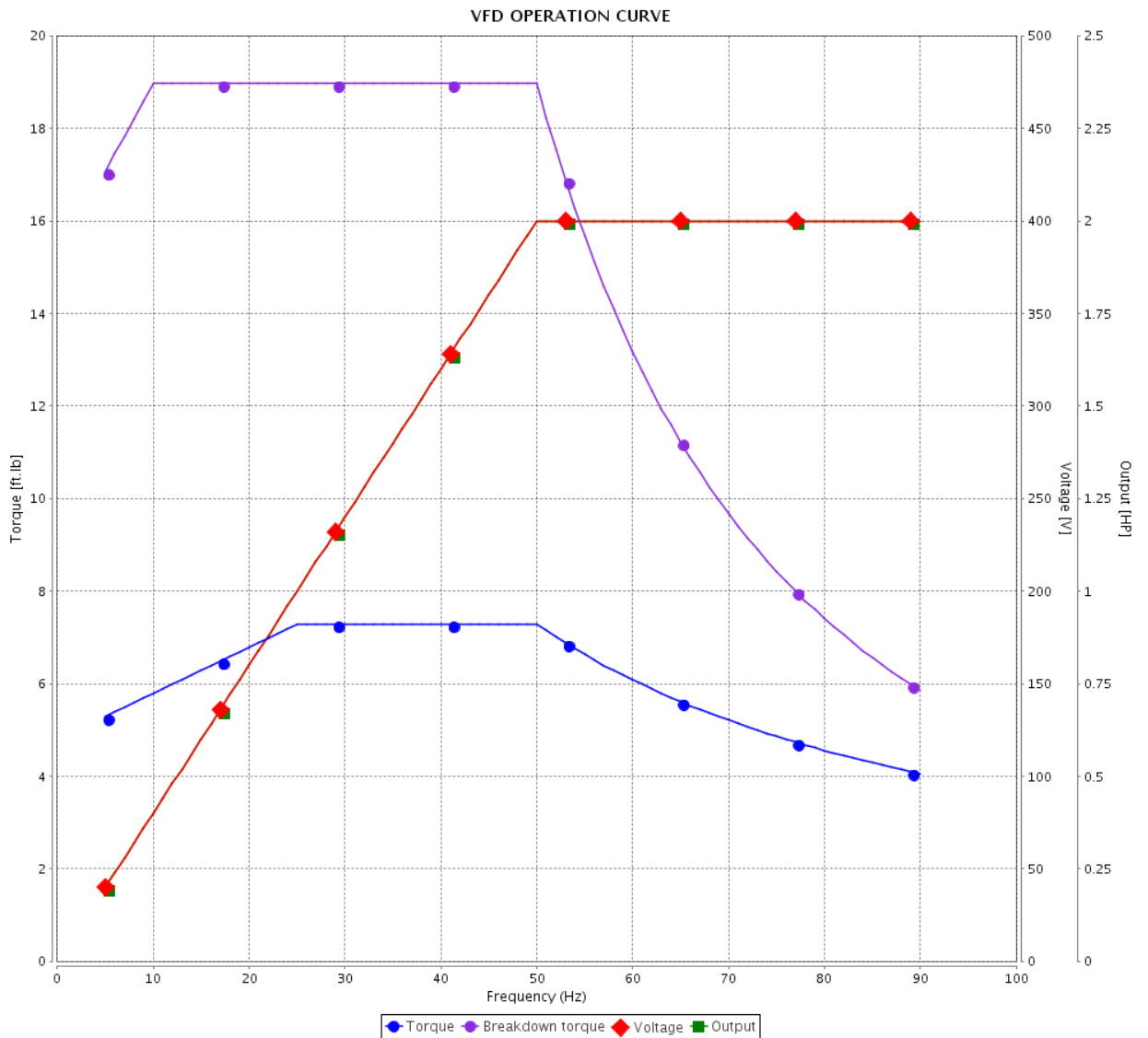


Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 11416577

Catalog # : 00218ET3E145T-W22



Performance : 400 V 50 Hz 4P IE2

Rated current : 3.22 A
LRC : 6.6
Rated torque : 7.29 ft.lb
Locked rotor torque : 229 %
Breakdown torque : 260 %
Rated speed : 1440 rpm

Moment of inertia (J) : 0.1561 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
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

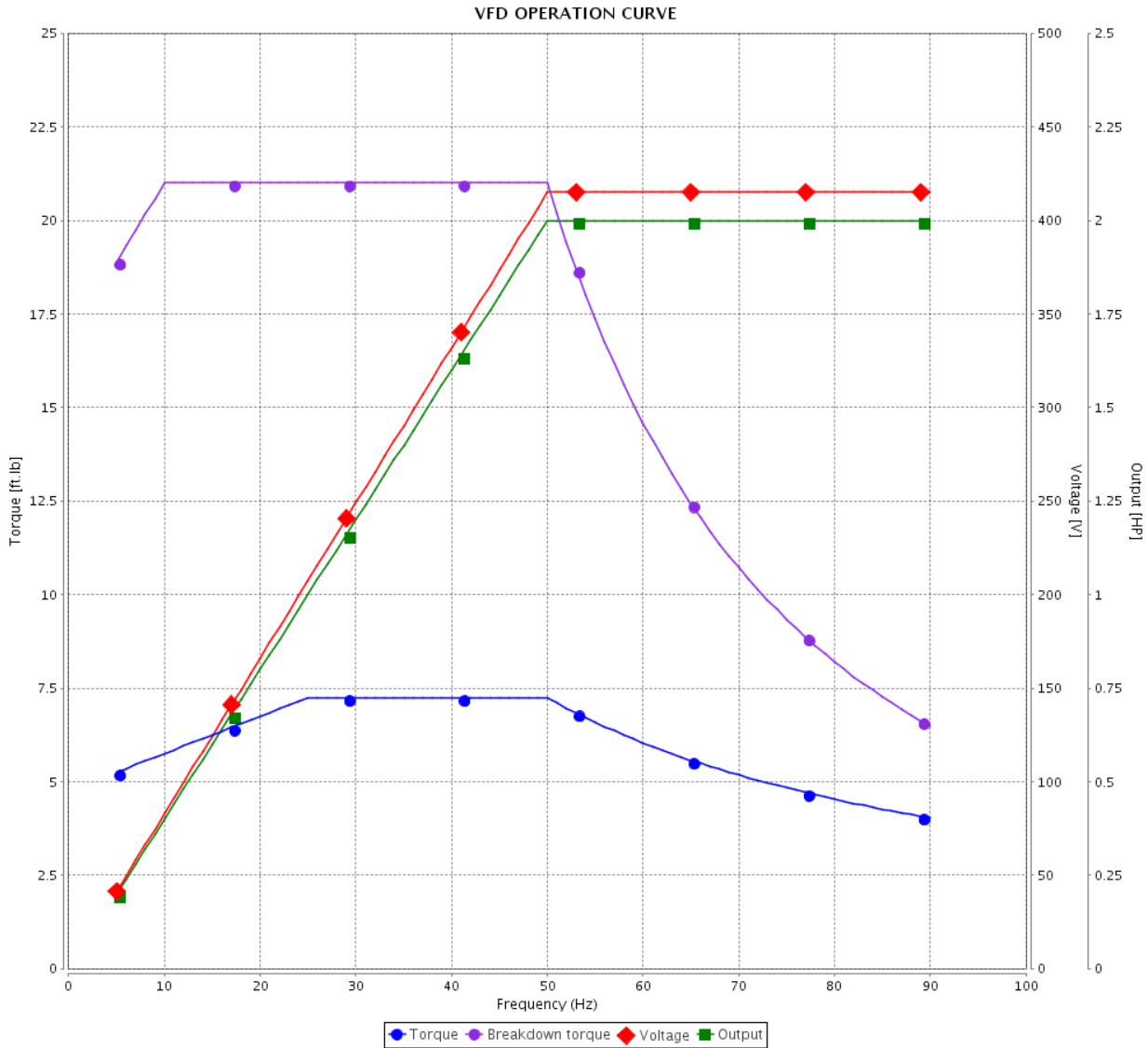


Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 11416577

Catalog # : 00218ET3E145T-W22

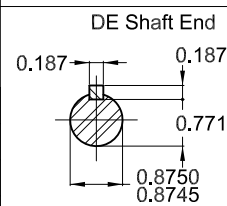
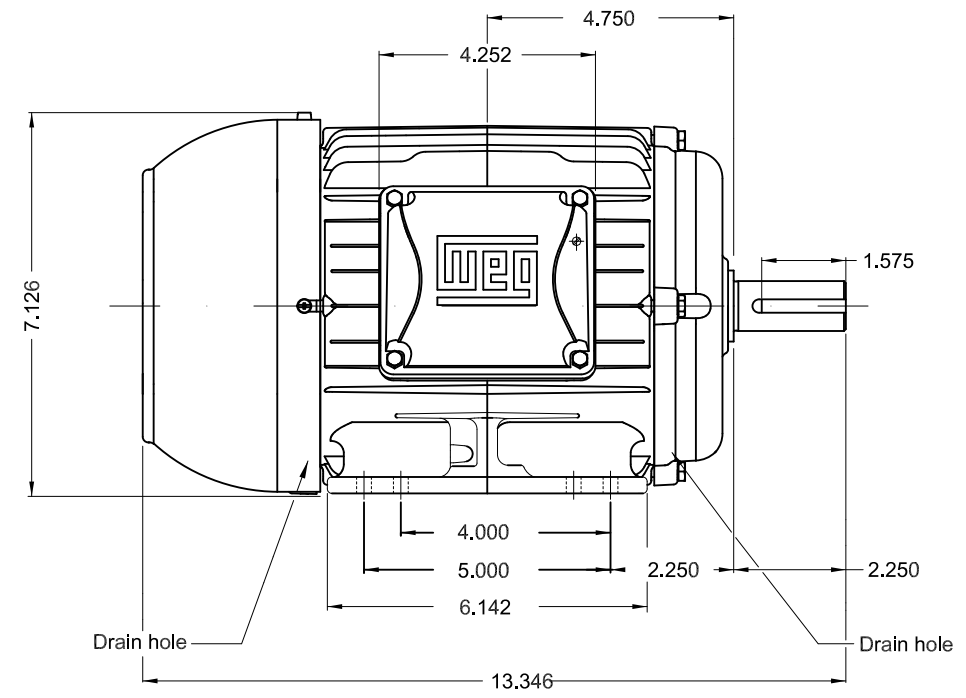
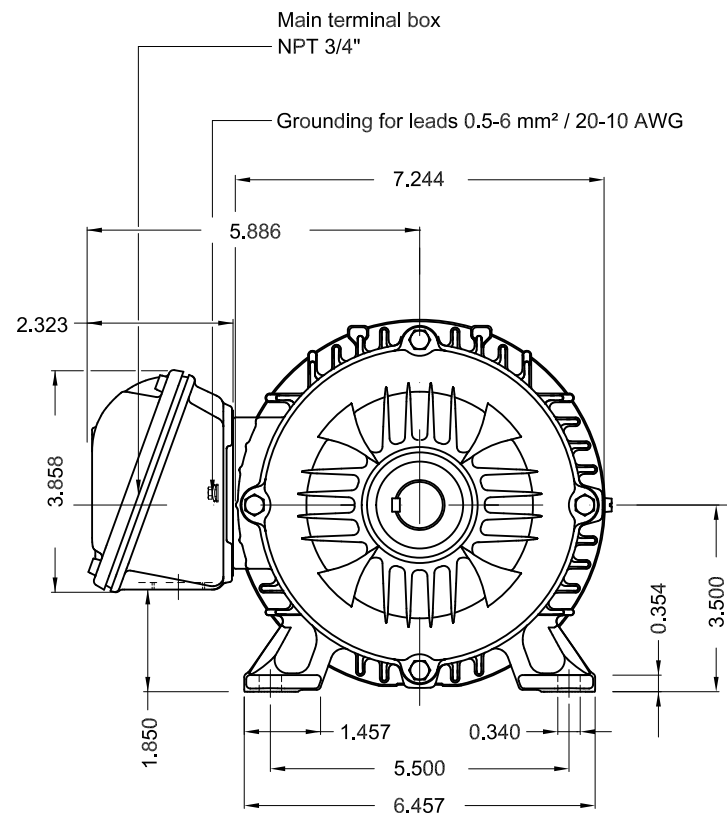


Performance : 415 V 50 Hz 4P IE2

Rated current : 3.14 A
 LRC : 7.3
 Rated torque : 7.24 ft.lb
 Locked rotor torque : 250 %
 Breakdown torque : 290 %
 Rated speed : 1450 rpm

Moment of inertia (J) : 0.1561 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

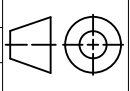
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Date				



Color RAL 5009
 Painting plan 207A
 Mounting NEMA F-1
 Mounting B3R(D)

2 HP 04 Poles 60Hz

Dimensions in inches

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	PIRWBUSER	 THREE PHASE W22 MOTOR - NEMA PREMIUM EFF FRAME 143/5T IP55 TEFC					
CHECKED							
RELEASED							
REL DT.							
	WMO	Jaragua do Sul	Product Engineering	SHEET 1 / 1			

PREVIEW
 WDD



