

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :							
Product line		: NEMA Premium Efficiency Three-Phase			Product code :		11456827
				Catalog # :		00236ET3E145T-W22	
Frame : 143/5T Insulation class : F Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l. Protection degree : IP55 Design : B				Cooling method : IC411 - TEFC Mounting : F-1 Rotation ¹ : Both (CW and CCW) Starting method : Direct On Line Approx. weight ² : 50.4 lb Moment of inertia (J) : 0.0605 sq.ft.lb			
Output [HP]	2	1.5	1.5	1.5	2	2	2
Poles	2	2	2	2	2	2	2
Frequency [Hz]	60	50	50	50	50	50	50
Rated voltage [V]	230/460	380	400	415	380	400	415
Rated current [A]	5.12/2.56	2.30	2.22	2.19	3.07	2.90	2.82
L. R. Amperes [A]	45.6/22.8	19.5	20.4	21.2	20.0	20.9	21.7
LRC [A]	8.9x(Code L)	8.5x(Code K)	9.2x(Code L)	9.7x(Code M)	6.5x(Code H)	7.2x(Code J)	7.7x(Code J)
No load current [A]	1.80/0.900	0.890	0.960	1.01	0.890	0.960	1.01
Rated speed [RPM]	3475	2885	2895	2905	2835	2850	2865
Slip [%]	3.47	3.83	3.50	3.17	5.50	5.00	4.50
Rated torque [ft.lb]	3.02	2.73	2.72	2.71	3.70	3.69	3.67
Locked rotor torque [%]	350	370	409	450	270	300	330
Breakdown torque [%]	380	370	420	459	270	310	340
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	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 ²	68.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)
Efficiency (%)	25%						
	50%	82.5	81.4	80.3	80.1	82.5	82.5
	75%	85.5	83.3	83.1	83.1	84.0	84.0
	100%	85.5	83.5	84.0	84.0	82.5	84.0
Power Factor	25%						
	50%	0.71	0.69	0.66	0.64	0.79	0.76
	75%	0.80	0.81	0.78	0.76	0.86	0.84
	100%	0.86	0.87	0.85	0.83	0.90	0.89
Bearing type		Drive end : 6205 ZZ	Non drive end : 6204 ZZ	Foundation loads			
Sealing		: V'Ring	: V'Ring	Max. traction		: 83 lb	
Lubrication interval		: -	: -	Max. compression		: 133 lb	
Lubricant amount		: -	: -				
Lubricant type		: Mobil Polyrex EM					
Notes USABLE @208V 5.60A SF 1.15 SFA 6.43A							
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



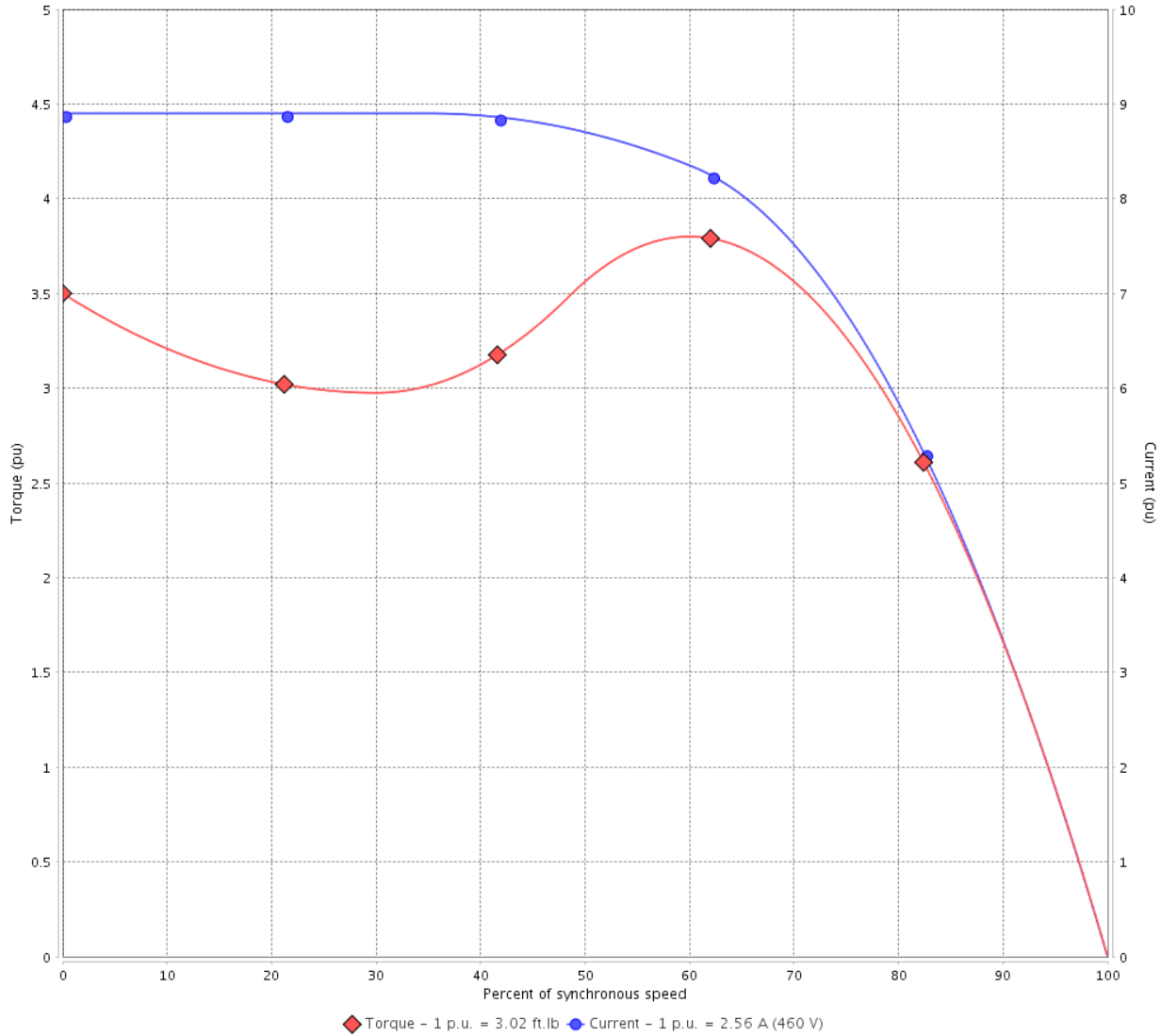
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11456827

Catalog # : 00236ET3E145T-W22

TORQUE AND CURRENT VS SPEED CURVE



Performance : 230/460 V 60 Hz 2P

Rated current	: 5.12/2.56 A	Moment of inertia (J)	: 0.0605 sq.ft.lb
LRC	: 8.9	Duty cycle	: Cont.(S1)
Rated torque	: 3.02 ft.lb	Insulation class	: F
Locked rotor torque	: 350 %	Service factor	: 1.25
Breakdown torque	: 380 %	Temperature rise	: 80 K
Rated speed	: 3475 rpm	Design	: B

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

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TORQUE AND CURRENT VS SPEED CURVE



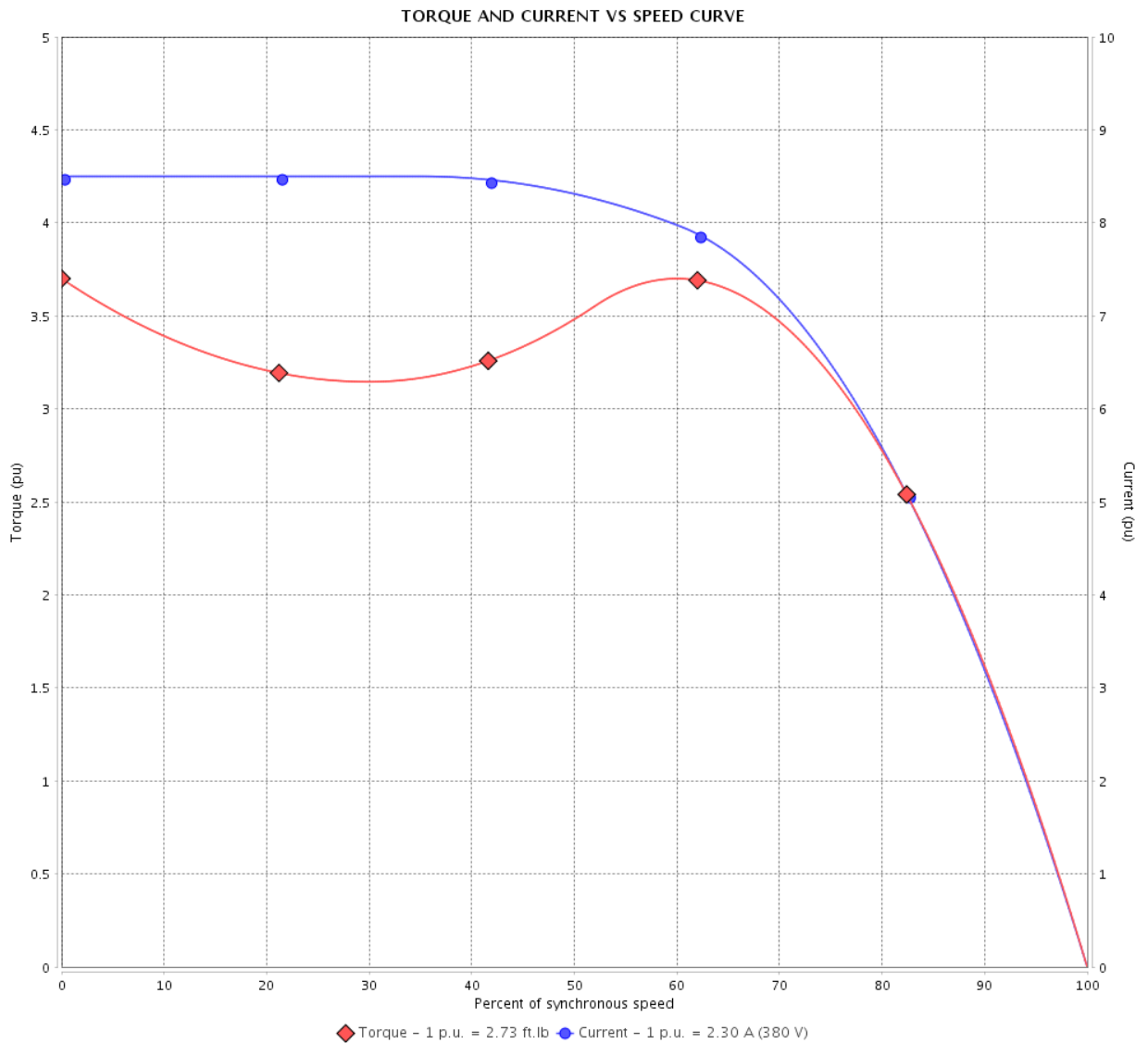
Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11456827

Catalog # : 00236ET3E145T-W22



Performance : 380 V 50 Hz 2P IE3

Rated current	: 2.30 A	Moment of inertia (J)	: 0.0605 sq.ft.lb
LRC	: 8.5	Duty cycle	: Cont.(S1)
Rated torque	: 2.73 ft.lb	Insulation class	: F
Locked rotor torque	: 370 %	Service factor	: 1.25
Breakdown torque	: 370 %	Temperature rise	: 80 K
Rated speed	: 2885 rpm	Design	: B

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

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



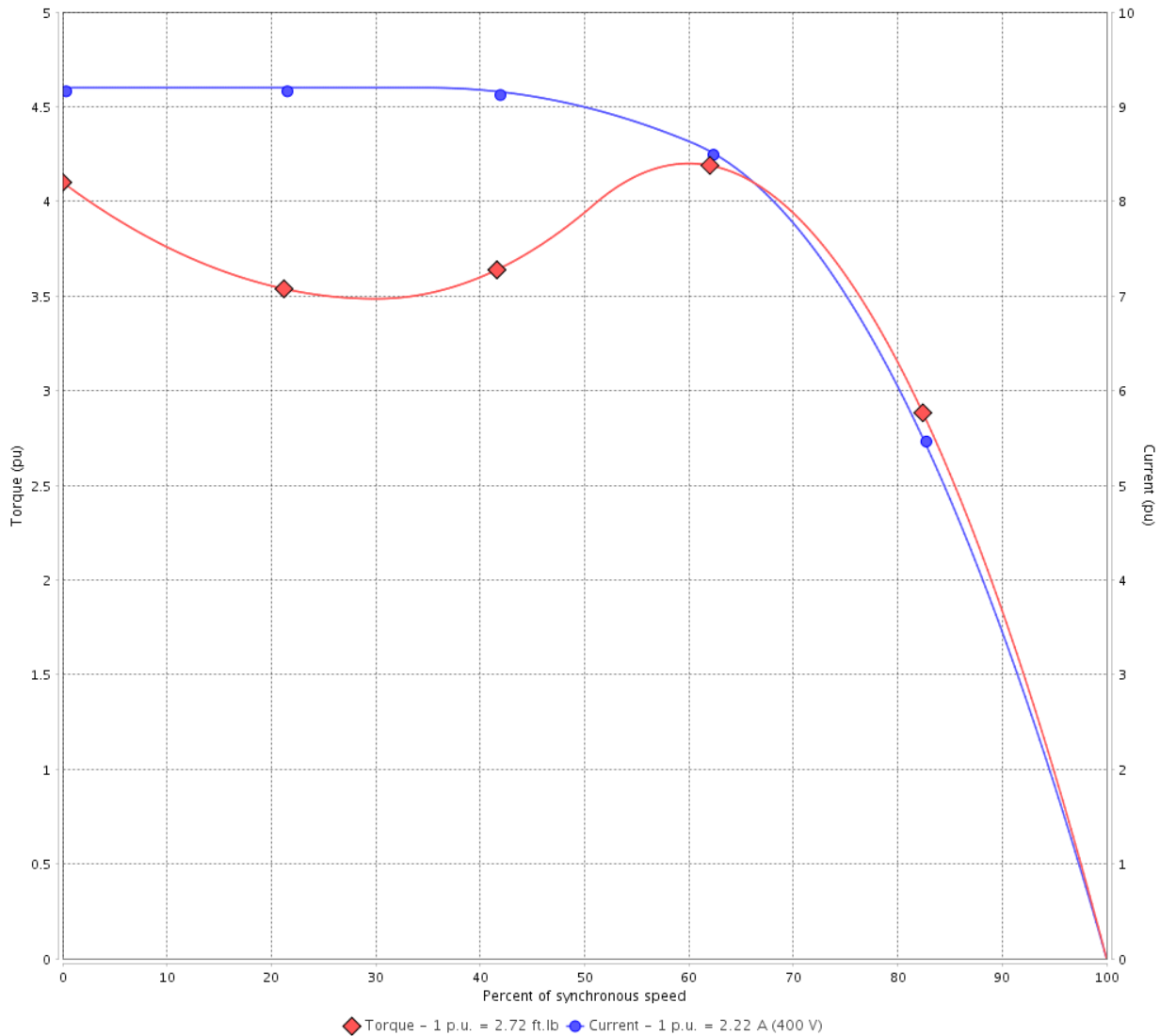
Customer :

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Catalog # : 00236ET3E145T-W22

TORQUE AND CURRENT VS SPEED CURVE



Performance : 400 V 50 Hz 2P IE3

Rated current	: 2.22 A	Moment of inertia (J)	: 0.0605 sq.ft.lb
LRC	: 9.2	Duty cycle	: Cont.(S1)
Rated torque	: 2.72 ft.lb	Insulation class	: F
Locked rotor torque	: 409 %	Service factor	: 1.25
Breakdown torque	: 420 %	Temperature rise	: 80 K
Rated speed	: 2895 rpm	Design	: B

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

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TORQUE AND CURRENT VS SPEED CURVE



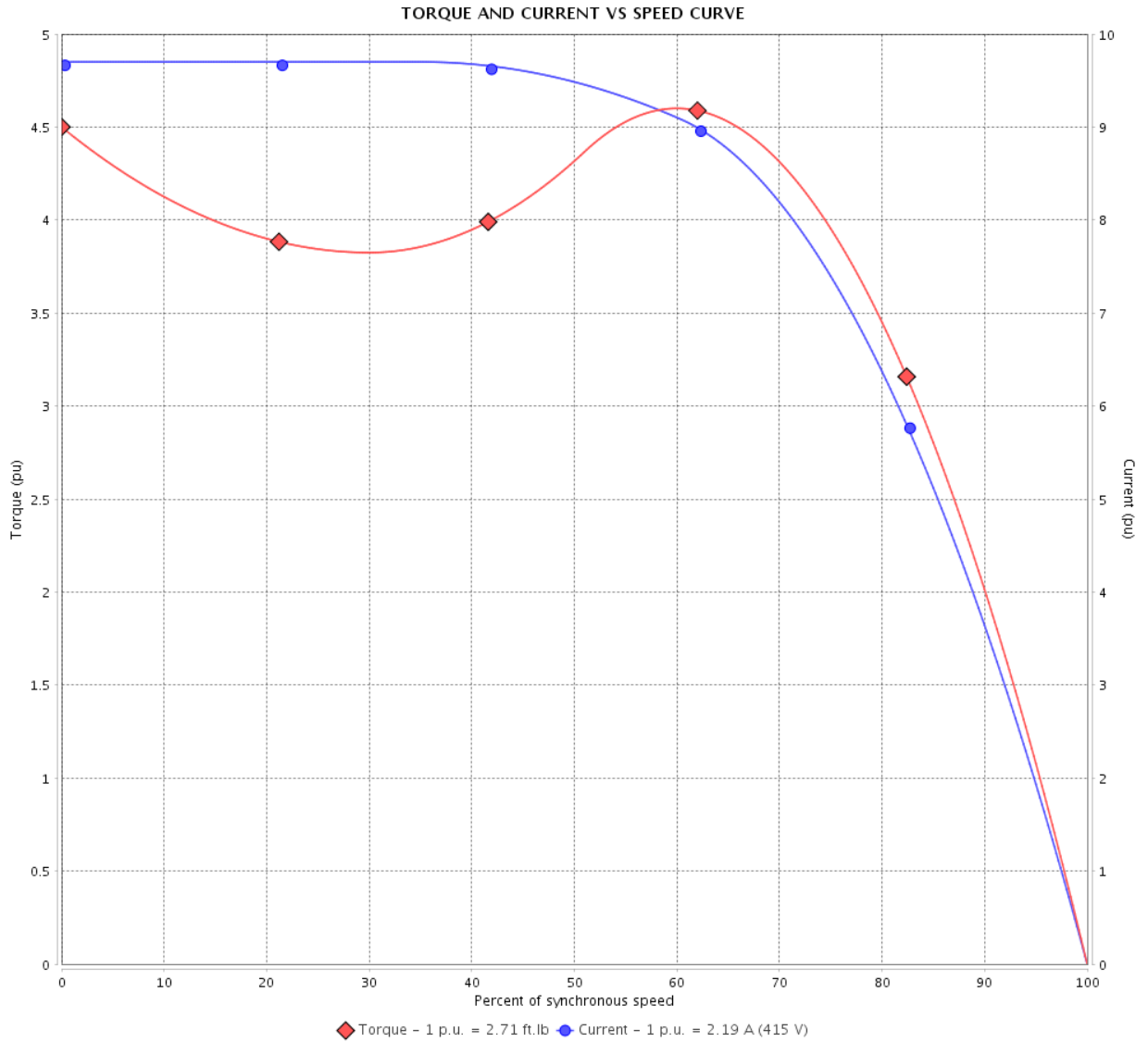
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Performance : 415 V 50 Hz 2P IE3

Rated current : 2.19 A
 LRC : 9.7
 Rated torque : 2.71 ft.lb
 Locked rotor torque : 450 %
 Breakdown torque : 459 %
 Rated speed : 2905 rpm

Moment of inertia (J) : 0.0605 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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

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TORQUE AND CURRENT VS SPEED CURVE

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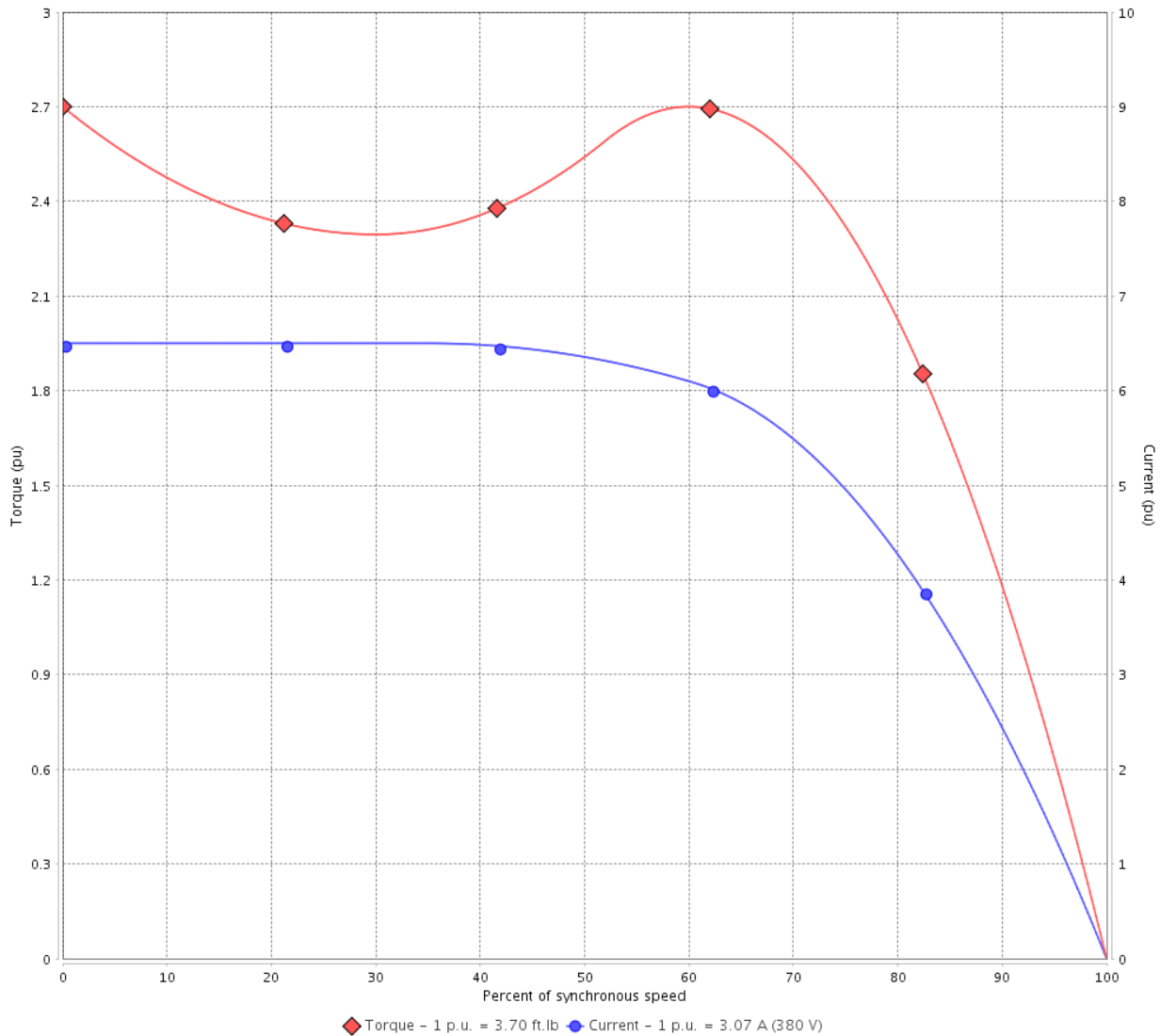
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TORQUE AND CURRENT VS SPEED CURVE



Performance : 380 V 50 Hz 2P IE2

Rated current	: 3.07 A	Moment of inertia (J)	: 0.0605 sq.ft.lb
LRC	: 6.5	Duty cycle	: Cont.(S1)
Rated torque	: 3.70 ft.lb	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.25
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 2835 rpm	Design	: B

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

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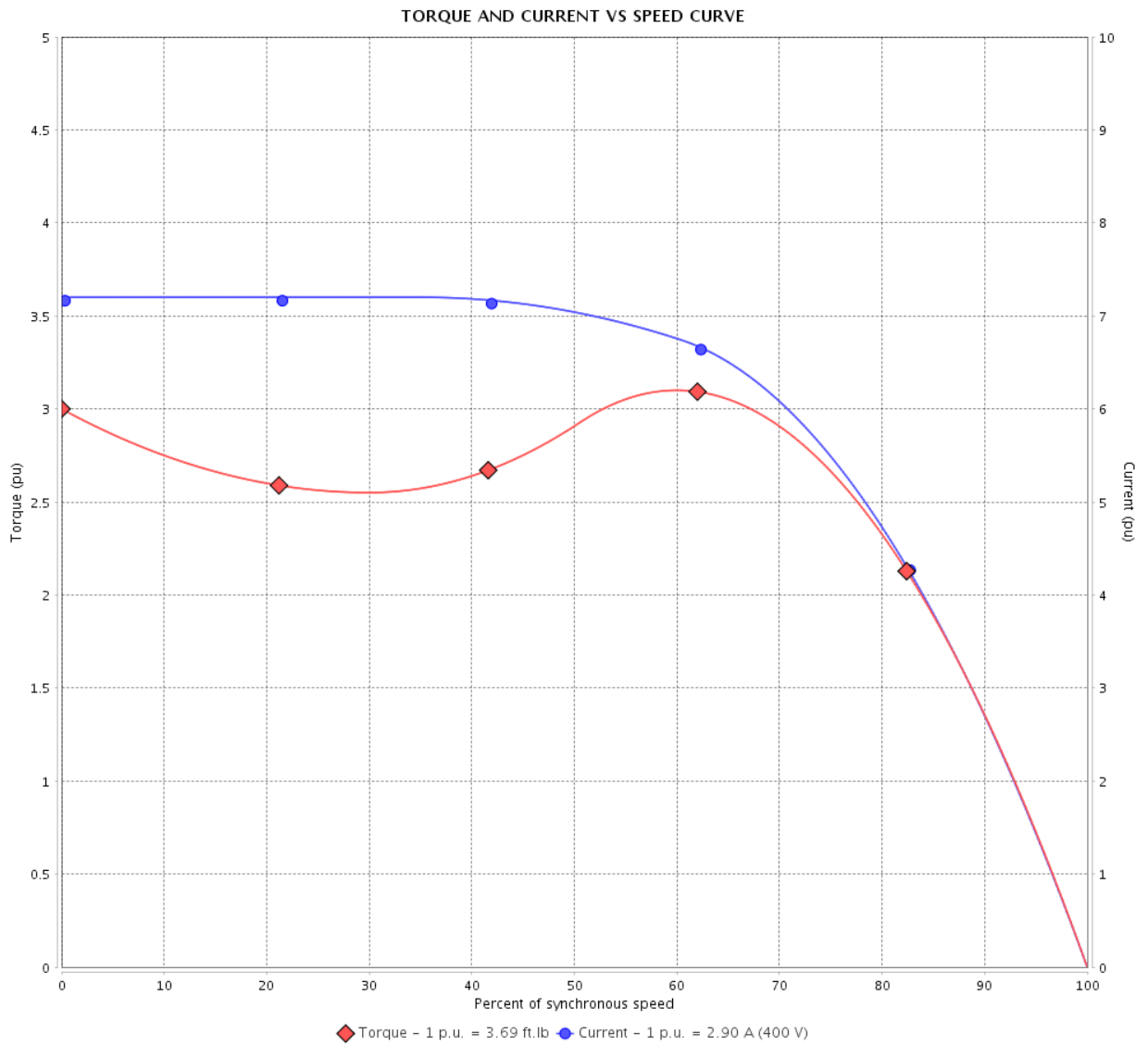
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Performance : 400 V 50 Hz 2P IE2

Rated current	: 2.90 A	Moment of inertia (J)	: 0.0605 sq.ft.lb
LRC	: 7.2	Duty cycle	: Cont.(S1)
Rated torque	: 3.69 ft.lb	Insulation class	: F
Locked rotor torque	: 300 %	Service factor	: 1.25
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 2850 rpm	Design	: B

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

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TORQUE AND CURRENT VS SPEED CURVE

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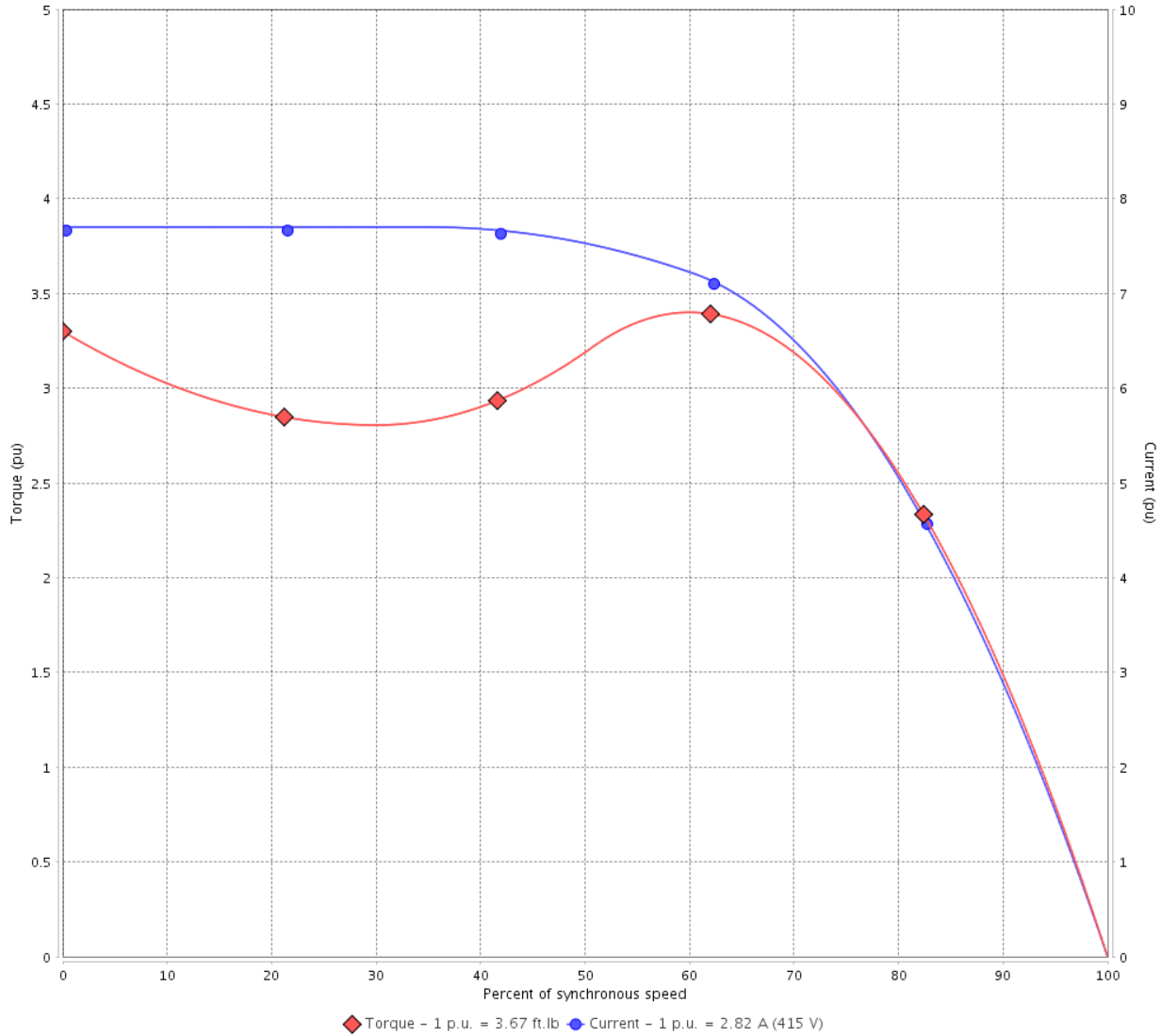
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Catalog # : 00236ET3E145T-W22

TORQUE AND CURRENT VS SPEED CURVE



Performance : 415 V 50 Hz 2P IE2

Rated current	: 2.82 A	Moment of inertia (J)	: 0.0605 sq.ft.lb
LRC	: 7.7	Duty cycle	: Cont.(S1)
Rated torque	: 3.67 ft.lb	Insulation class	: F
Locked rotor torque	: 330 %	Service factor	: 1.25
Breakdown torque	: 340 %	Temperature rise	: 80 K
Rated speed	: 2865 rpm	Design	: B

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

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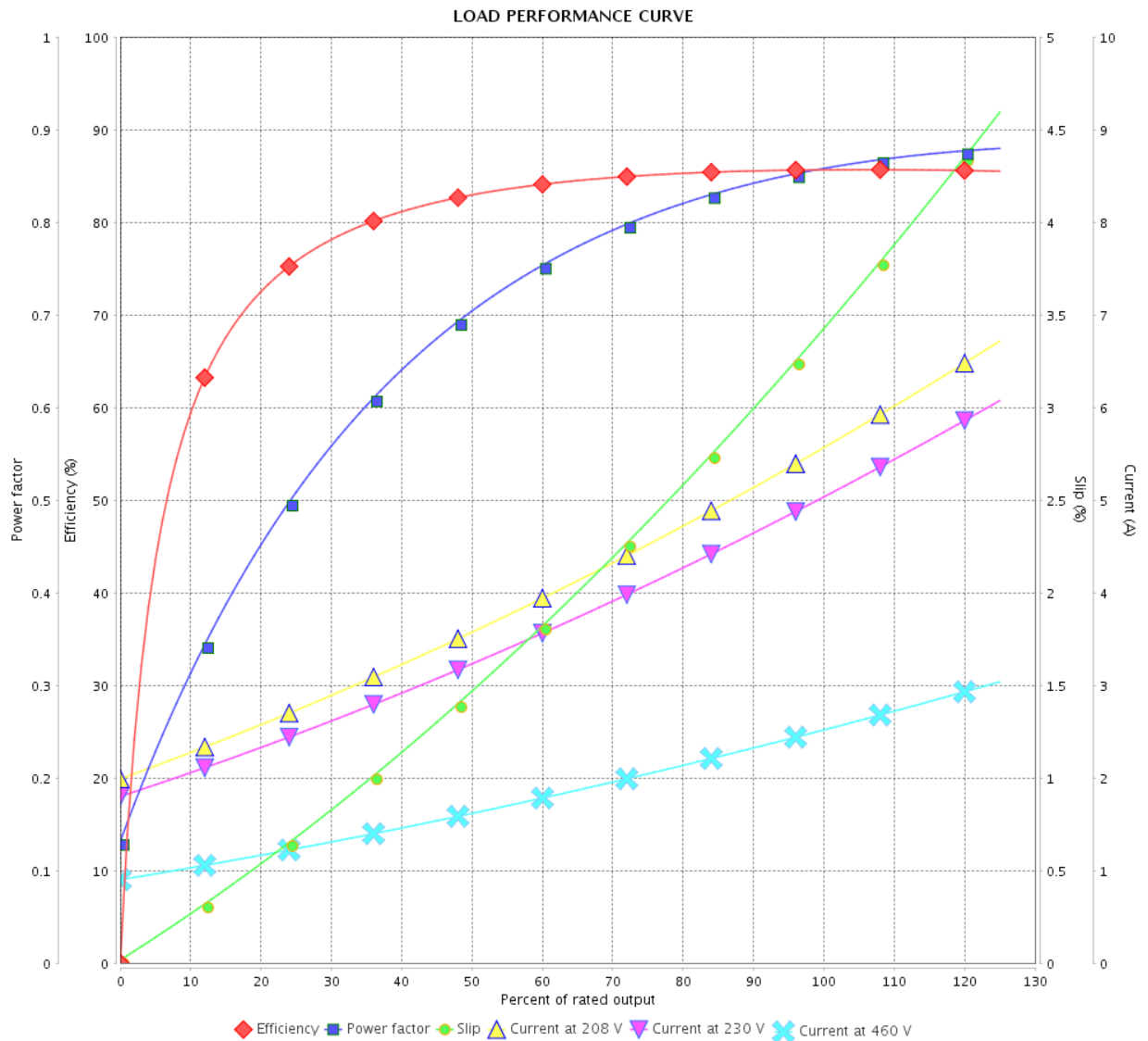


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Product code : 11456827

Catalog # : 00236ET3E145T-W22



Performance : 230/460 V 60 Hz 2P

Rated current : 5.12/2.56 A
 LRC : 8.9
 Rated torque : 3.02 ft.lb
 Locked rotor torque : 350 %
 Breakdown torque : 380 %
 Rated speed : 3475 rpm

Moment of inertia (J) : 0.0605 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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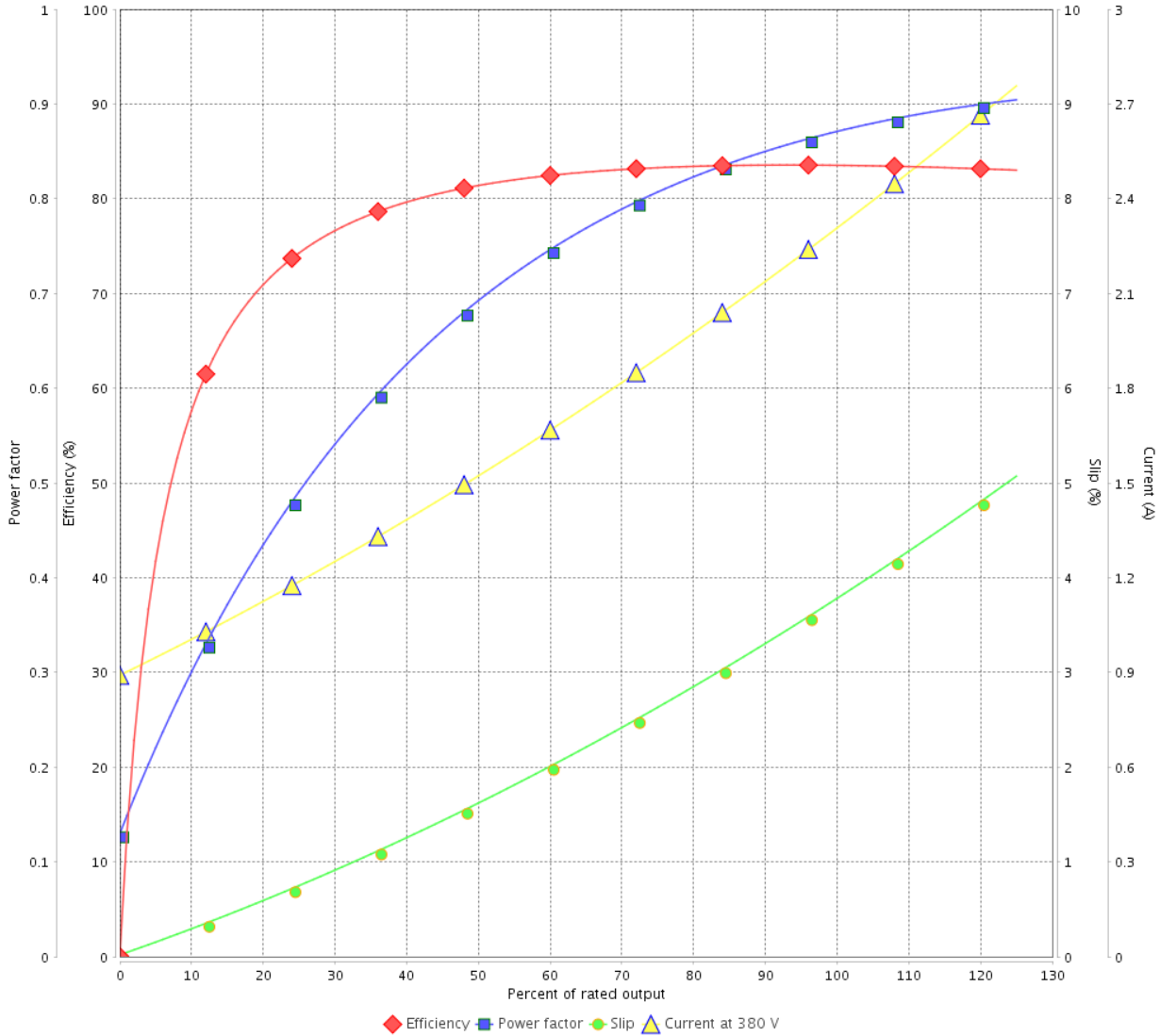
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Performance : 380 V 50 Hz 2P IE3

Rated current : 2.30 A
 LRC : 8.5
 Rated torque : 2.73 ft.lb
 Locked rotor torque : 370 %
 Breakdown torque : 370 %
 Rated speed : 2885 rpm

Moment of inertia (J) : 0.0605 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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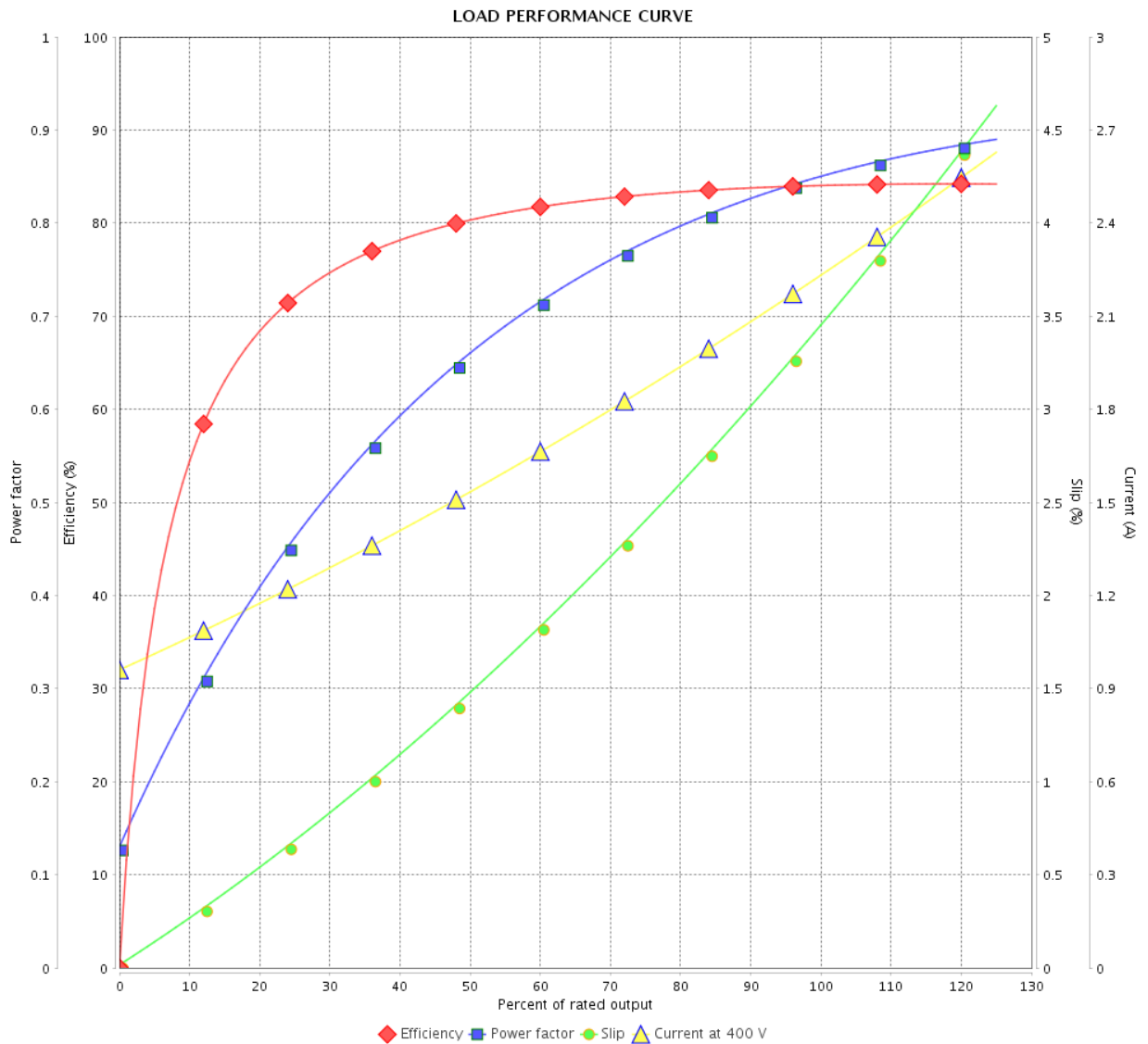


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Performance : 400 V 50 Hz 2P IE3

Rated current : 2.22 A
 LRC : 9.2
 Rated torque : 2.72 ft.lb
 Locked rotor torque : 409 %
 Breakdown torque : 420 %
 Rated speed : 2895 rpm

Moment of inertia (J) : 0.0605 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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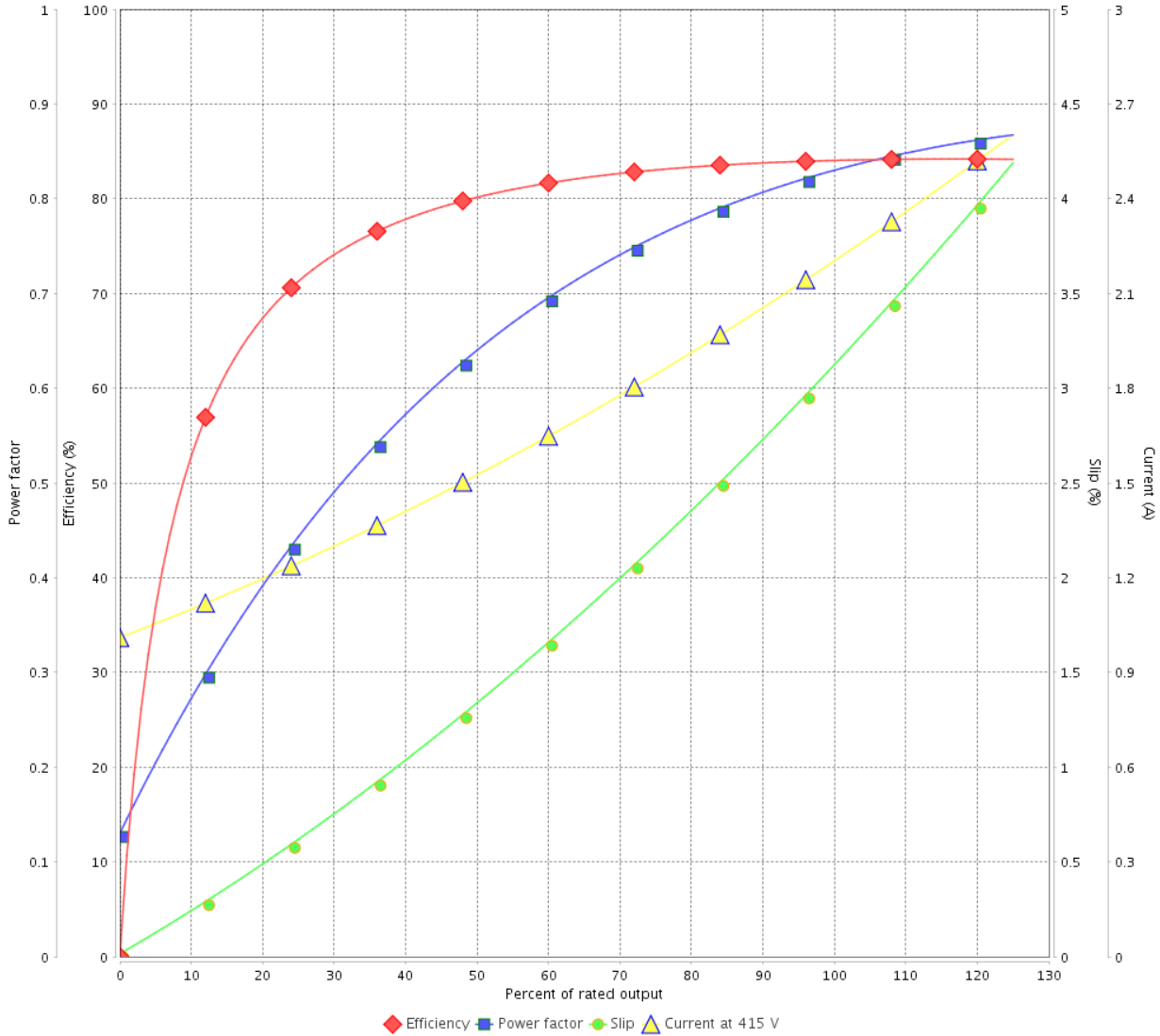
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Performance : 415 V 50 Hz 2P IE3

Rated current : 2.19 A
 LRC : 9.7
 Rated torque : 2.71 ft.lb
 Locked rotor torque : 450 %
 Breakdown torque : 459 %
 Rated speed : 2905 rpm

Moment of inertia (J) : 0.0605 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

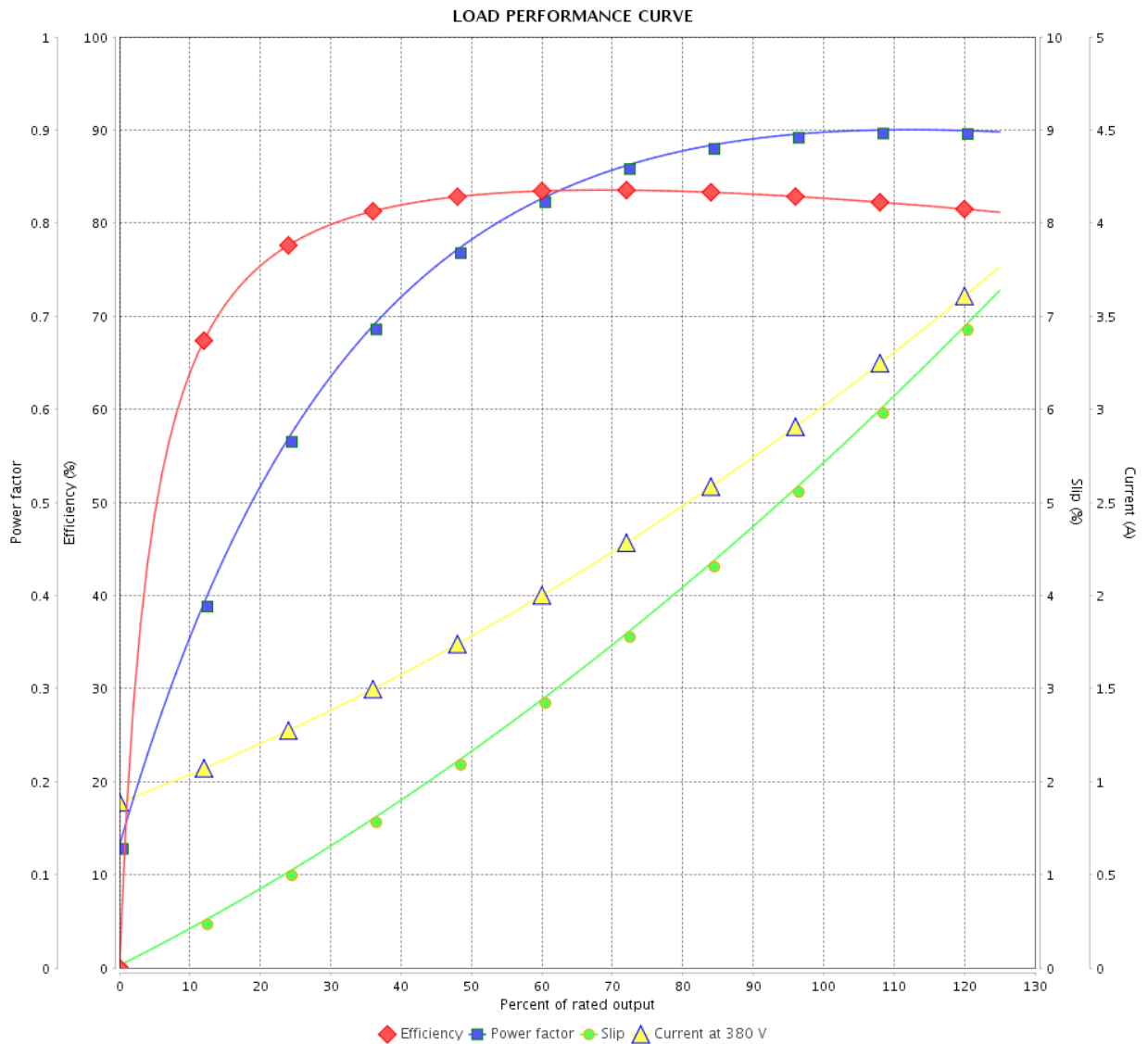


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Product line : NEMA Premium Efficiency Three-Phase

Product code : 11456827

Catalog # : 00236ET3E145T-W22



Performance : 380 V 50 Hz 2P IE2

Rated current : 3.07 A
 LRC : 6.5
 Rated torque : 3.70 ft.lb
 Locked rotor torque : 270 %
 Breakdown torque : 270 %
 Rated speed : 2835 rpm

Moment of inertia (J) : 0.0605 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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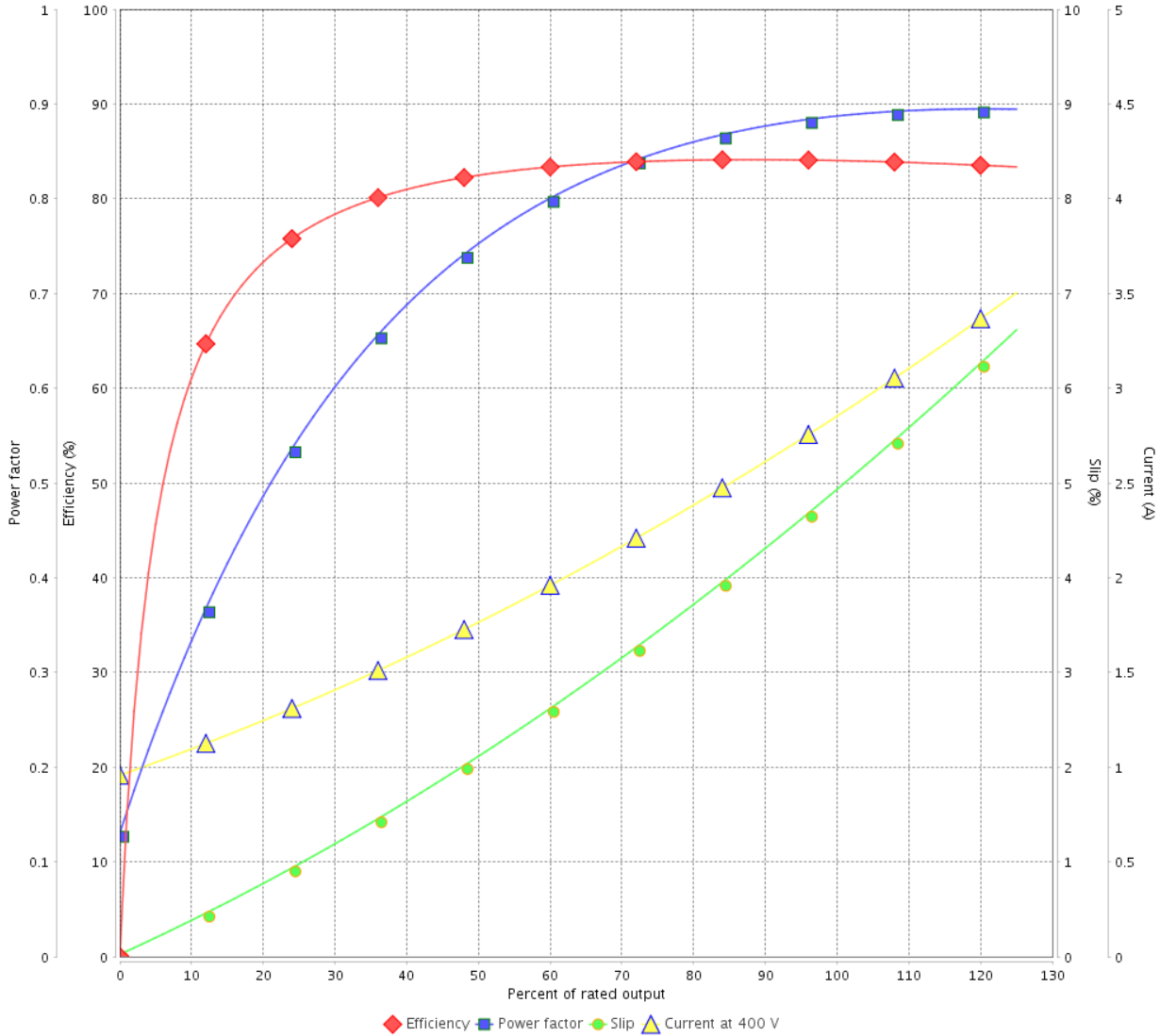
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Performance : 400 V 50 Hz 2P IE2

Rated current : 2.90 A
 LRC : 7.2
 Rated torque : 3.69 ft.lb
 Locked rotor torque : 300 %
 Breakdown torque : 310 %
 Rated speed : 2850 rpm

Moment of inertia (J) : 0.0605 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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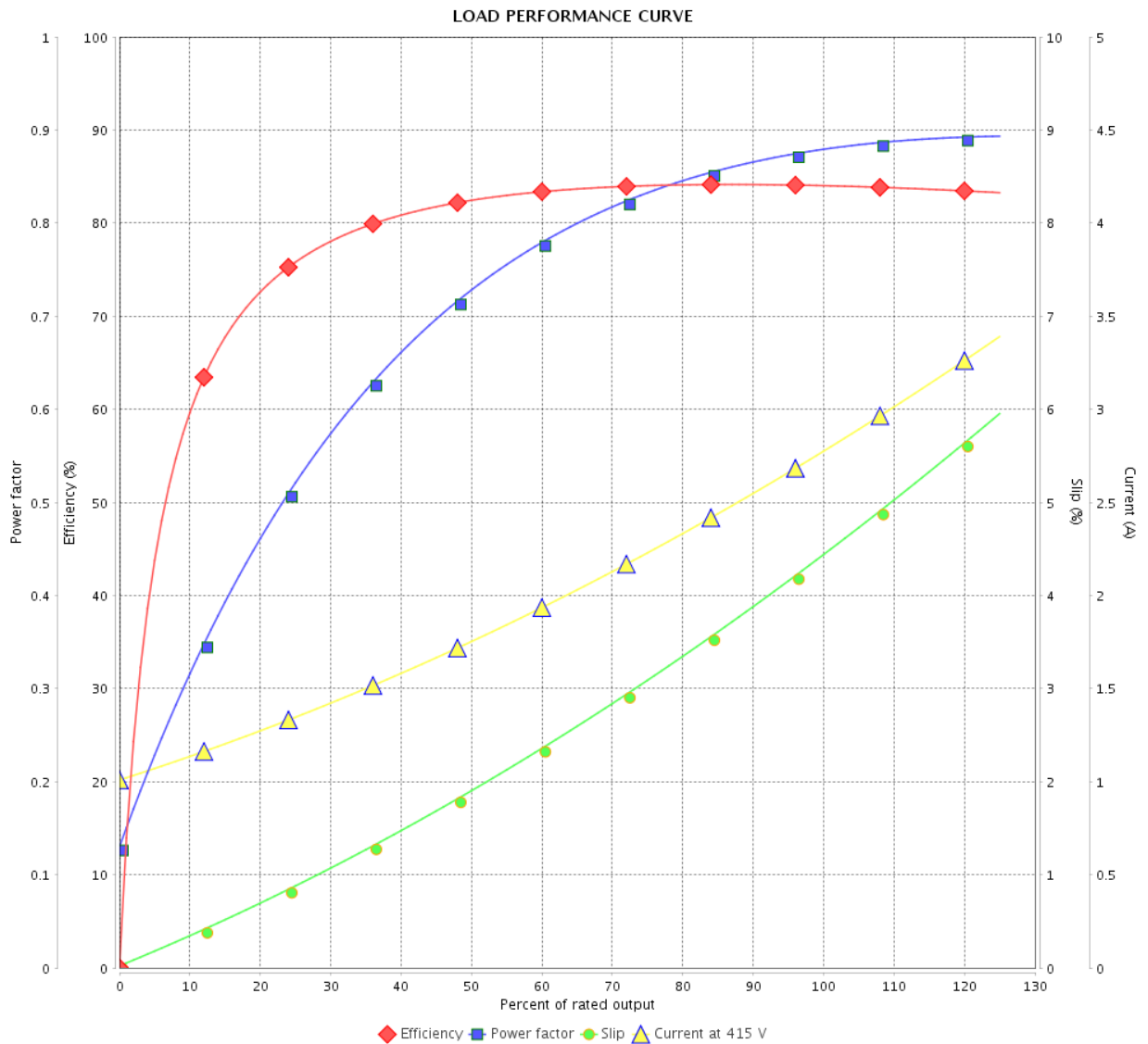


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Product line : NEMA Premium Efficiency Three-Phase

Product code : 11456827

Catalog # : 00236ET3E145T-W22



Performance : 415 V 50 Hz 2P IE2

Rated current : 2.82 A
 LRC : 7.7
 Rated torque : 3.67 ft.lb
 Locked rotor torque : 330 %
 Breakdown torque : 340 %
 Rated speed : 2865 rpm

Moment of inertia (J) : 0.0605 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



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase
Product code : 11456827
Catalog # : 00236ET3E145T-W22

Performance : 230/460 V 60 Hz 2P

Rated current	: 5.12/2.56 A	Moment of inertia (J)	: 0.0605 sq.ft.lb
LRC	: 8.9	Duty cycle	: Cont.(S1)
Rated torque	: 3.02 ft.lb	Insulation class	: F
Locked rotor torque	: 350 %	Service factor	: 1.25
Breakdown torque	: 380 %	Temperature rise	: 80 K
Rated speed	: 3475 rpm	Design	: B

Heating constant

Cooling constant

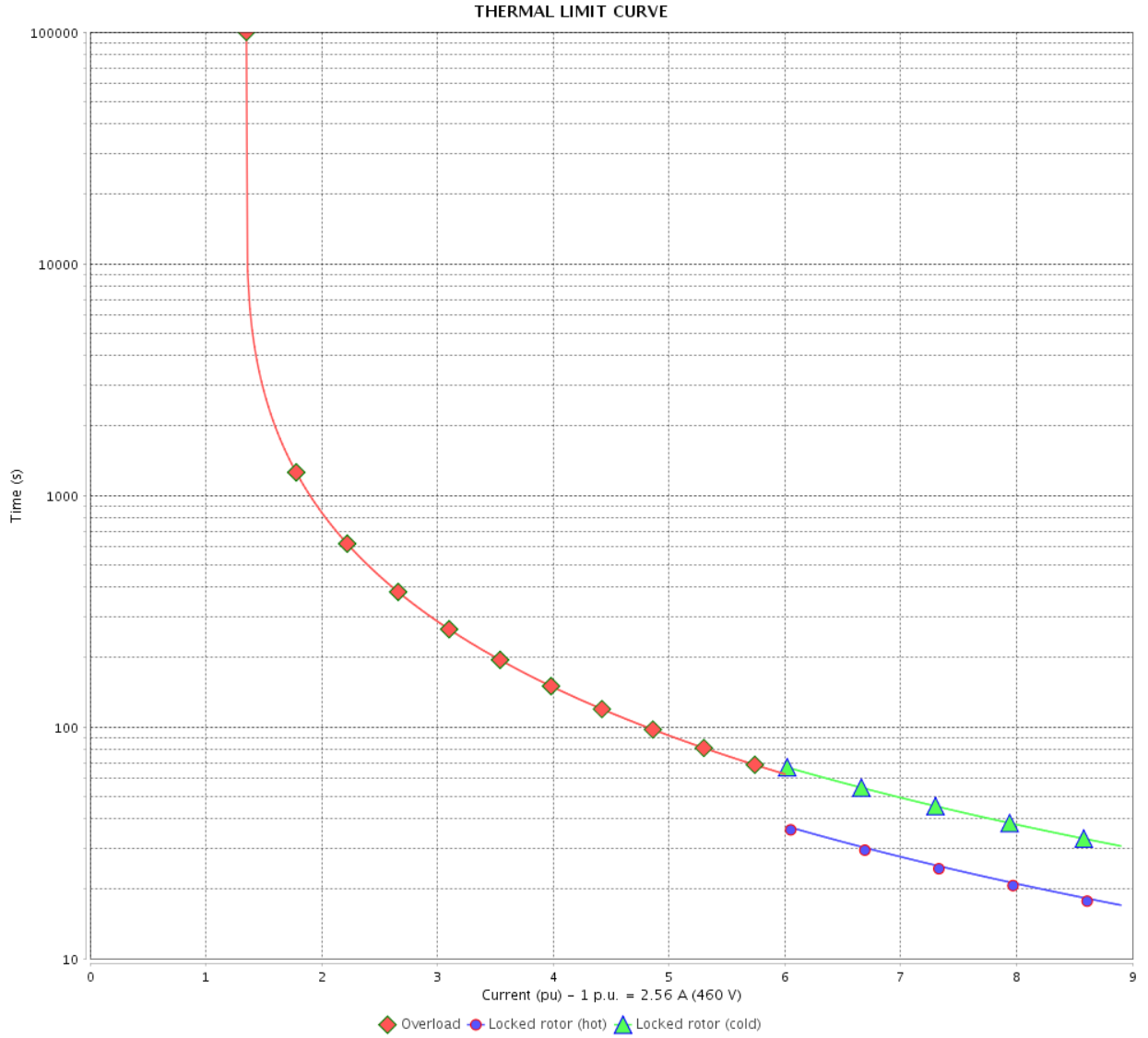
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase
Product code : 11456827
Catalog # : 00236ET3E145T-W22

Performance : 380 V 50 Hz 2P IE3

Rated current	: 2.30 A	Moment of inertia (J)	: 0.0605 sq.ft.lb
LRC	: 8.5	Duty cycle	: Cont.(S1)
Rated torque	: 2.73 ft.lb	Insulation class	: F
Locked rotor torque	: 370 %	Service factor	: 1.25
Breakdown torque	: 370 %	Temperature rise	: 80 K
Rated speed	: 2885 rpm	Design	: B

Heating constant

Cooling constant

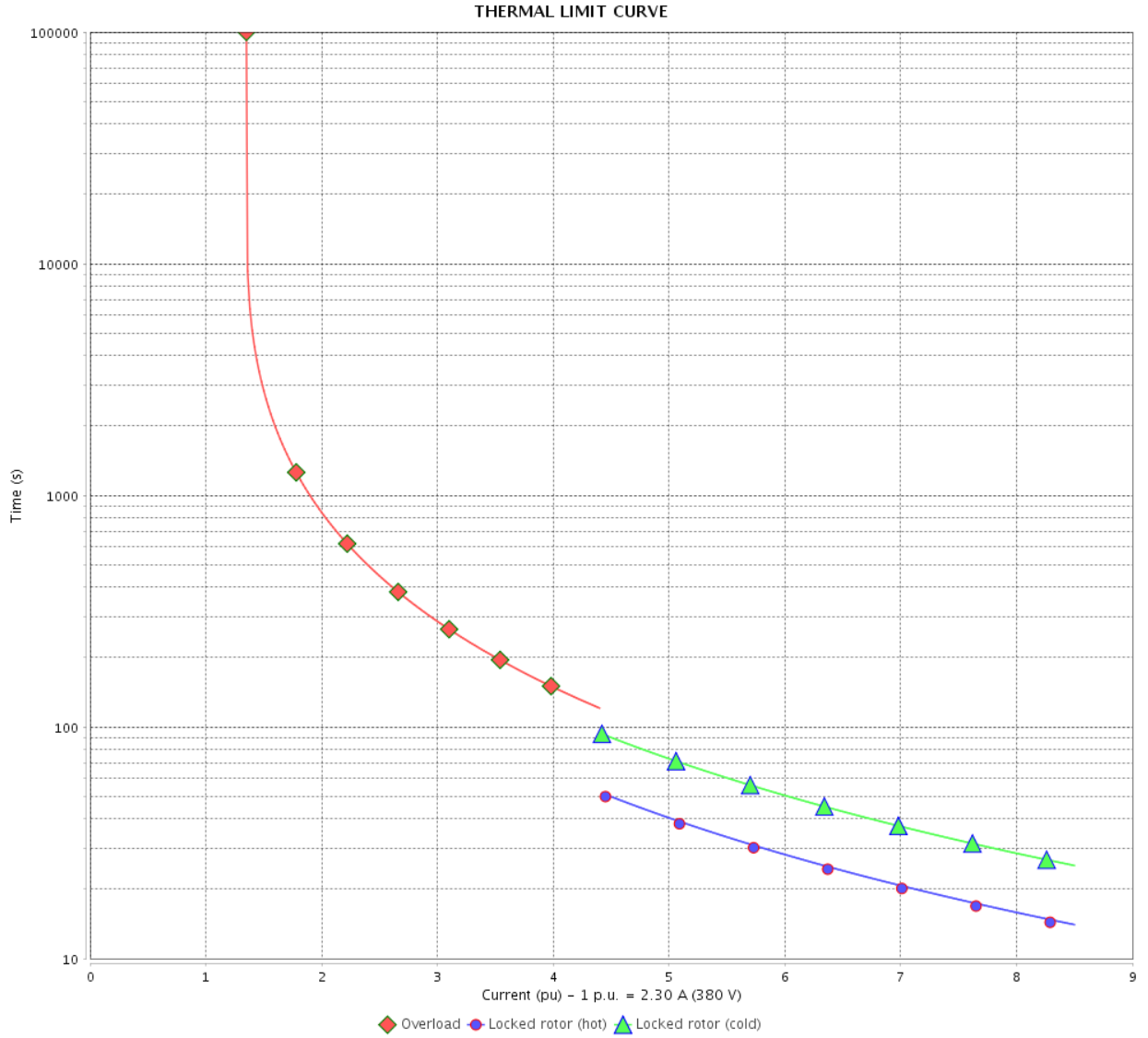
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Performance : 400 V 50 Hz 2P IE3

Rated current	: 2.22 A	Moment of inertia (J)	: 0.0605 sq.ft.lb
LRC	: 9.2	Duty cycle	: Cont.(S1)
Rated torque	: 2.72 ft.lb	Insulation class	: F
Locked rotor torque	: 409 %	Service factor	: 1.25
Breakdown torque	: 420 %	Temperature rise	: 80 K
Rated speed	: 2895 rpm	Design	: B

Heating constant

Cooling constant

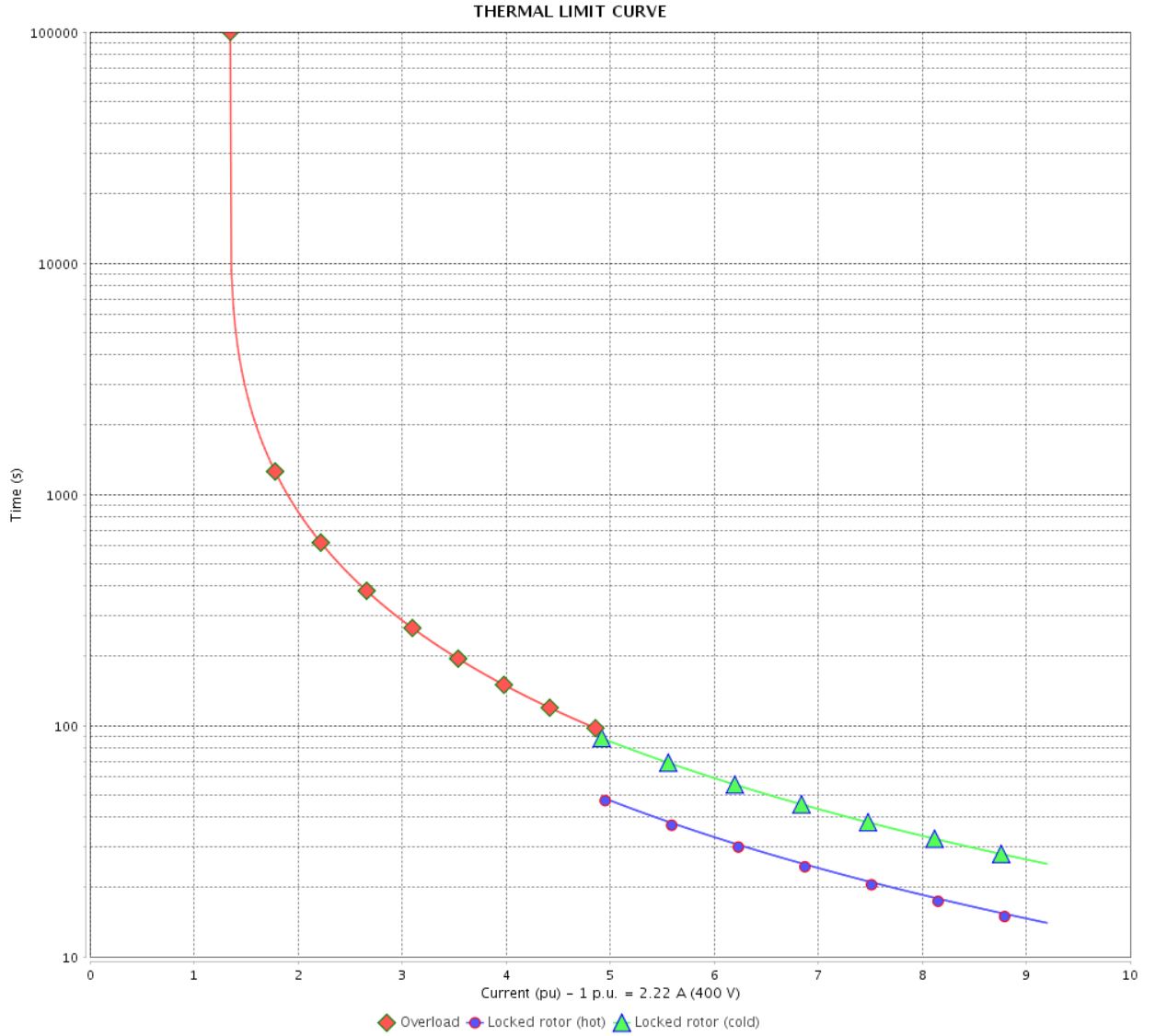
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Performance : 415 V 50 Hz 2P IE3

Rated current	: 2.19 A	Moment of inertia (J)	: 0.0605 sq.ft.lb
LRC	: 9.7	Duty cycle	: Cont.(S1)
Rated torque	: 2.71 ft.lb	Insulation class	: F
Locked rotor torque	: 450 %	Service factor	: 1.25
Breakdown torque	: 459 %	Temperature rise	: 80 K
Rated speed	: 2905 rpm	Design	: B

Heating constant

Cooling constant

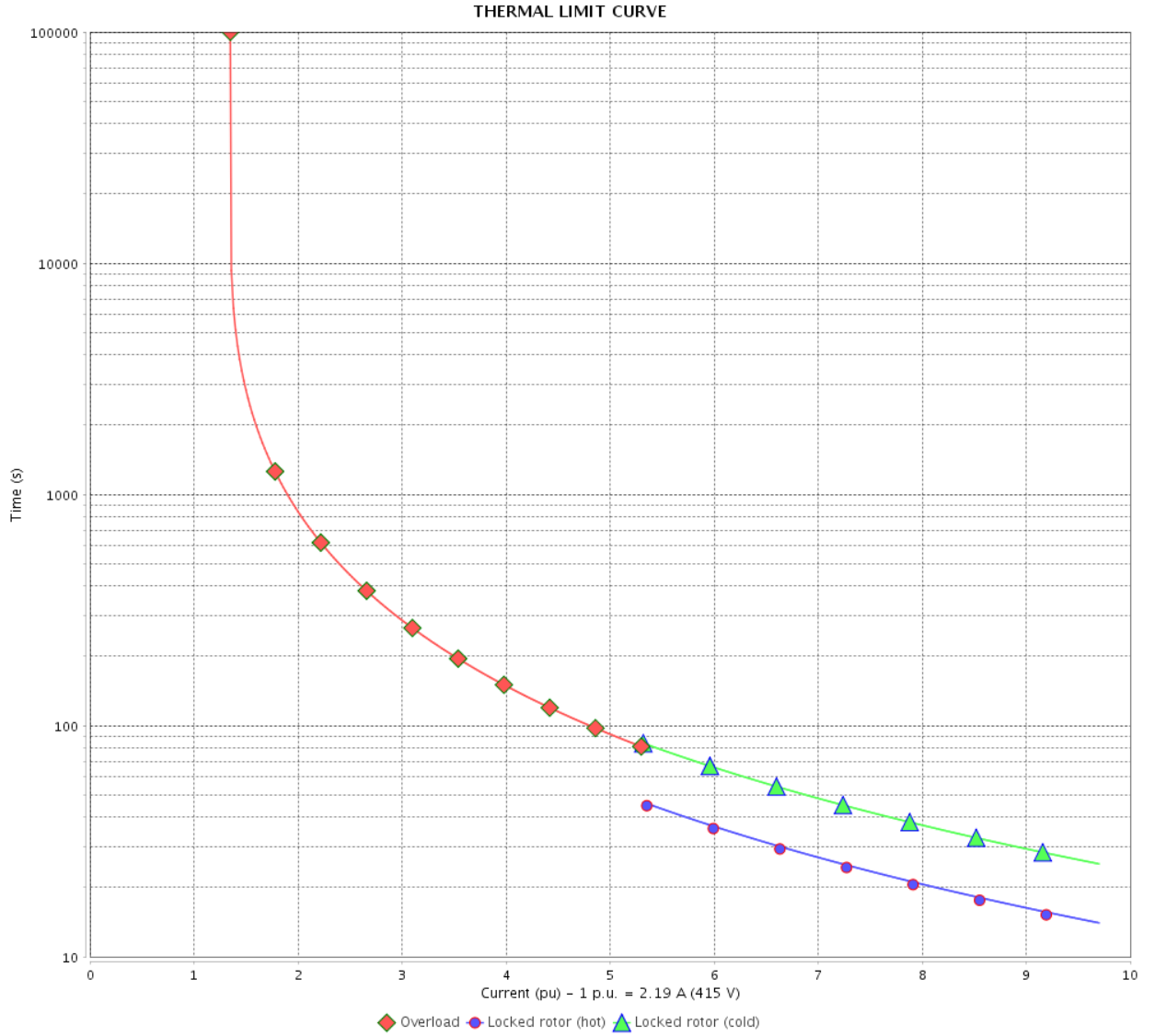
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Rated current : 3.07 A	Moment of inertia (J) : 0.0605 sq.ft.lb
LRC : 6.5	Duty cycle : Cont.(S1)
Rated torque : 3.70 ft.lb	Insulation class : F
Locked rotor torque : 270 %	Service factor : 1.25
Breakdown torque : 270 %	Temperature rise : 80 K
Rated speed : 2835 rpm	Design : B

Heating constant

Cooling constant

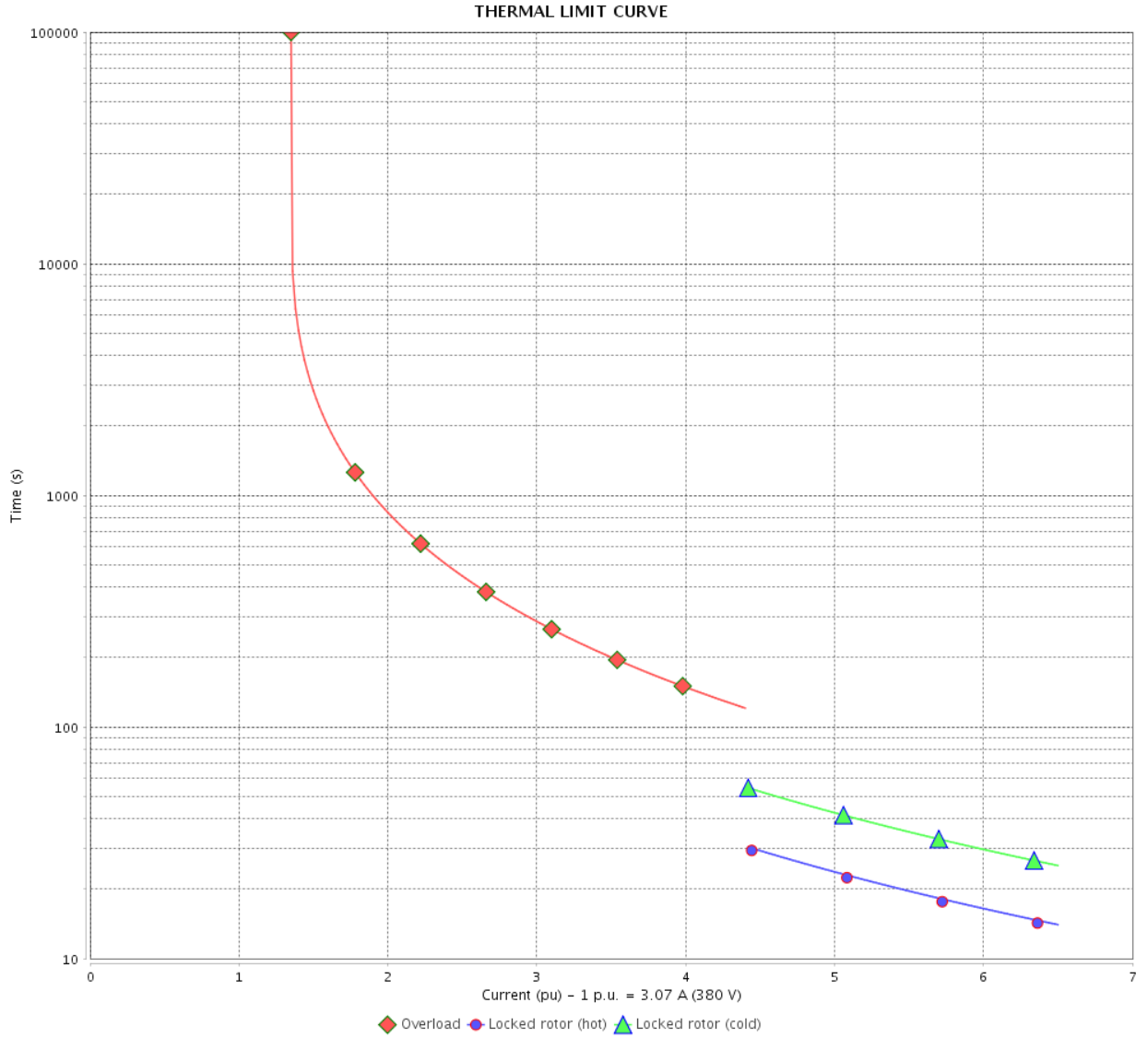
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Product code : 11456827
Catalog # : 00236ET3E145T-W22

Performance : 400 V 50 Hz 2P IE2

Rated current	: 2.90 A	Moment of inertia (J)	: 0.0605 sq.ft.lb
LRC	: 7.2	Duty cycle	: Cont.(S1)
Rated torque	: 3.69 ft.lb	Insulation class	: F
Locked rotor torque	: 300 %	Service factor	: 1.25
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 2850 rpm	Design	: B

Heating constant

Cooling constant

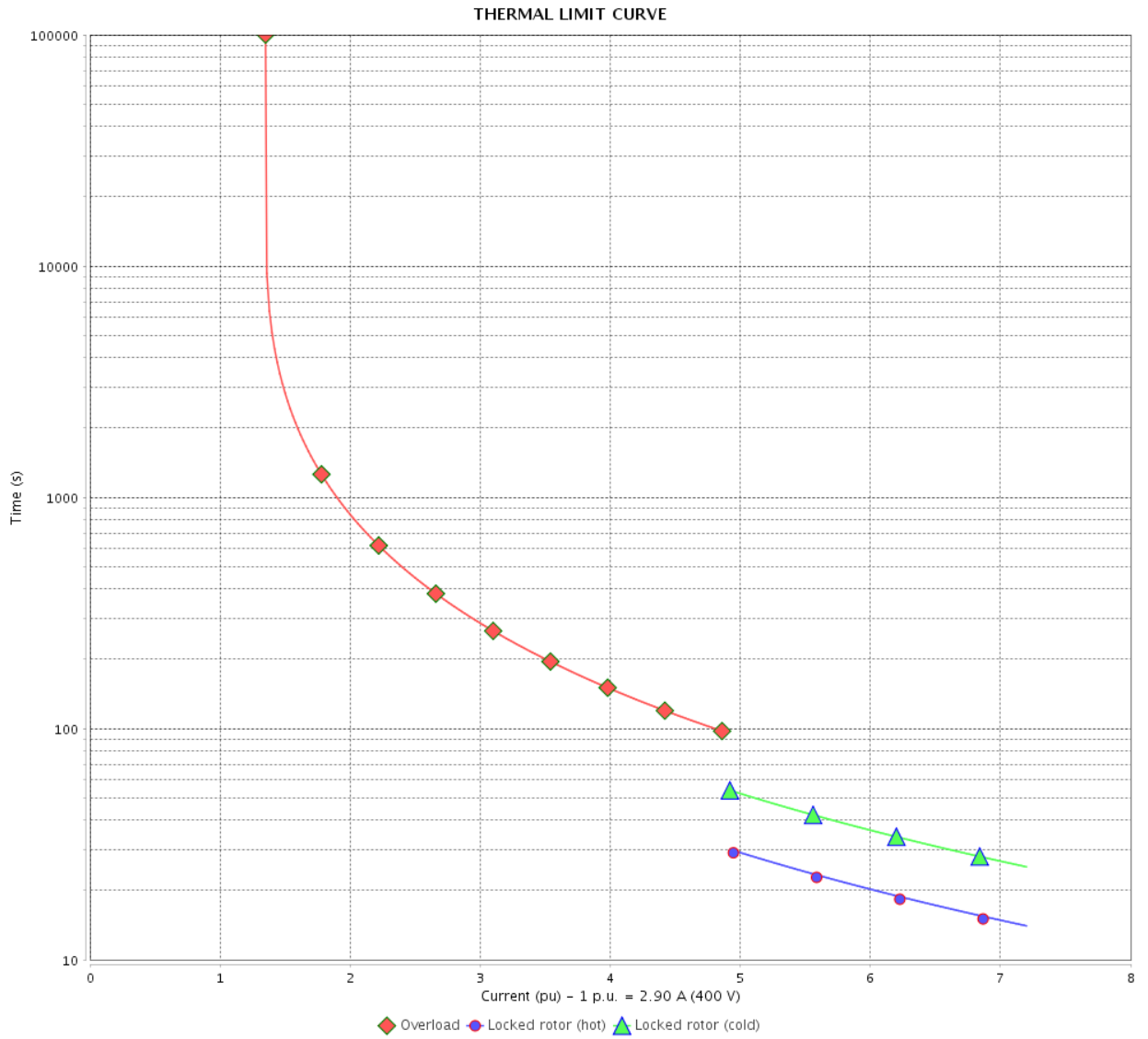
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	13/04/2022		26 / 36	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



Rev.	Changes Summary	Performed	Checked	Date
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Date				

THERMAL LIMIT CURVE



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase
Product code : 11456827
Catalog # : 00236ET3E145T-W22

Performance : 415 V 50 Hz 2P IE2

Rated current	: 2.82 A	Moment of inertia (J)	: 0.0605 sq.ft.lb
LRC	: 7.7	Duty cycle	: Cont.(S1)
Rated torque	: 3.67 ft.lb	Insulation class	: F
Locked rotor torque	: 330 %	Service factor	: 1.25
Breakdown torque	: 340 %	Temperature rise	: 80 K
Rated speed	: 2865 rpm	Design	: B

Heating constant

Cooling constant

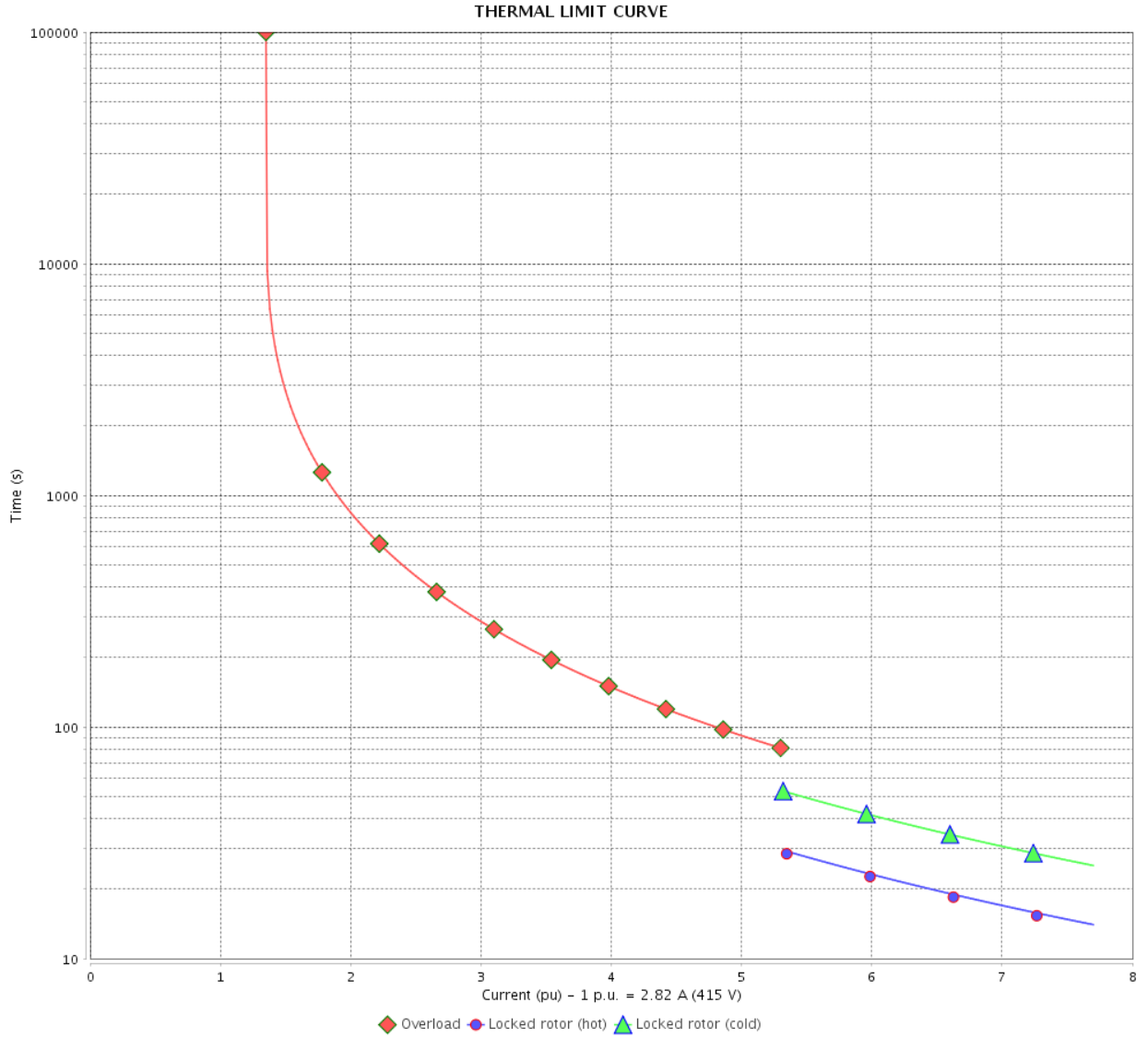
Rev.	Changes Summary	Performed	Checked	Date
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Checked by				
Date	13/04/2022		Page 28 / 36	Revision

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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Date				

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

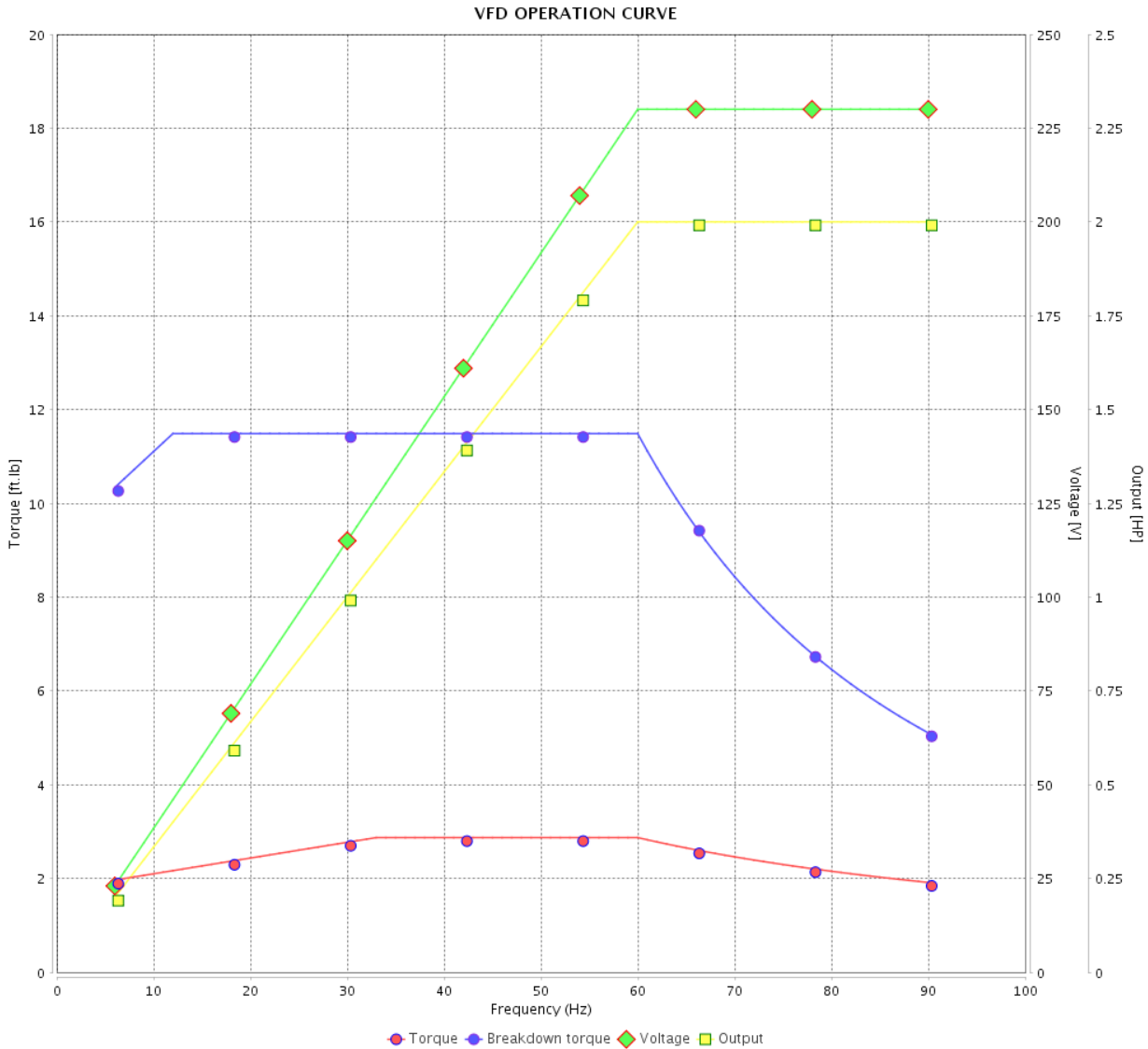


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11456827

Catalog # : 00236ET3E145T-W22



Performance : 230/460 V 60 Hz 2P

Rated current : 5.12/2.56 A
 LRC : 8.9
 Rated torque : 3.02 ft.lb
 Locked rotor torque : 350 %
 Breakdown torque : 380 %
 Rated speed : 3475 rpm

Moment of inertia (J) : 0.0605 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 30 / 36	Revision
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Date 13/04/2022				

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

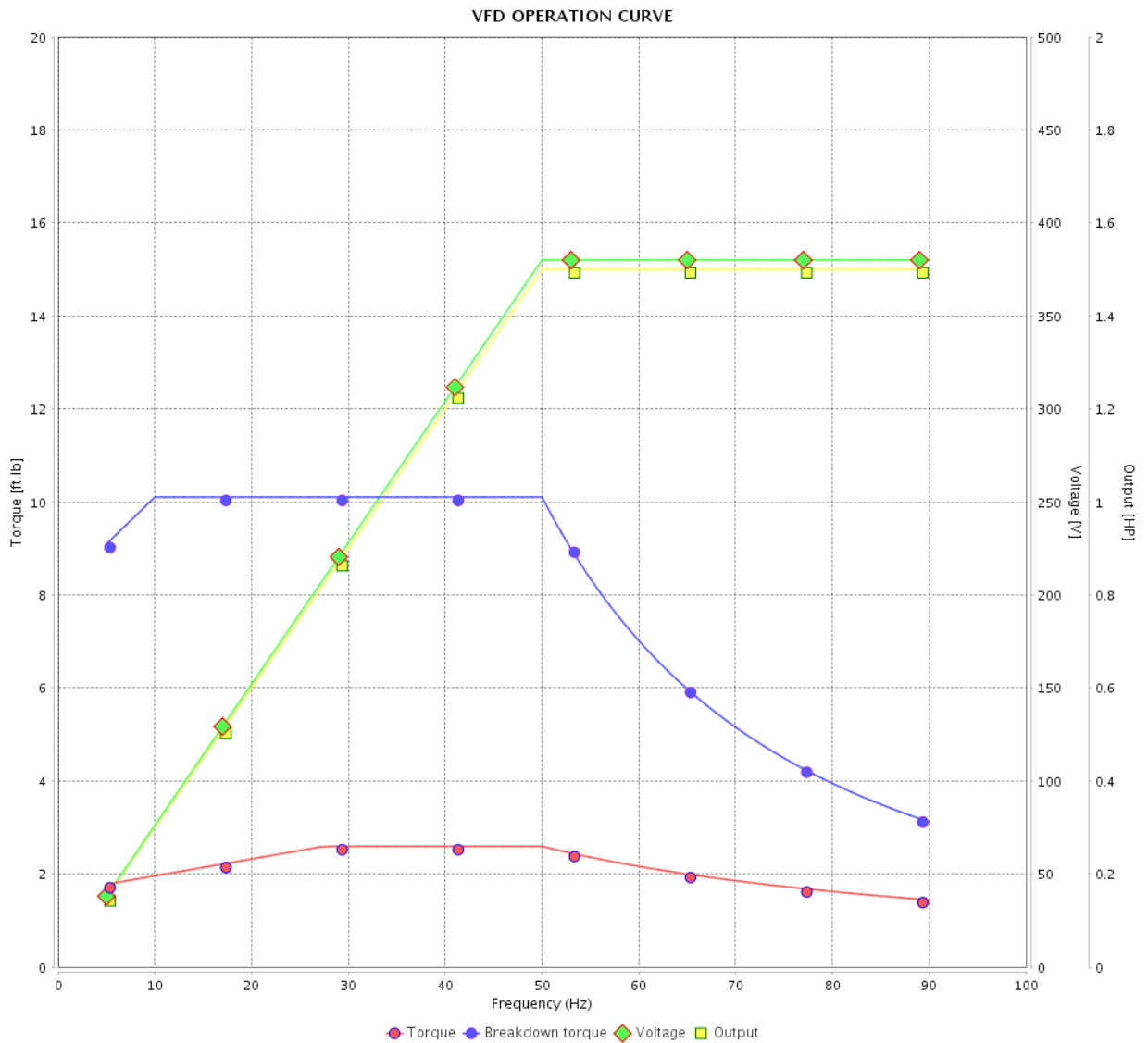


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11456827

Catalog # : 00236ET3E145T-W22



Performance : 380 V 50 Hz 2P IE3

Rated current : 2.30 A
 LRC : 8.5
 Rated torque : 2.73 ft.lb
 Locked rotor torque : 370 %
 Breakdown torque : 370 %
 Rated speed : 2885 rpm

Moment of inertia (J) : 0.0605 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

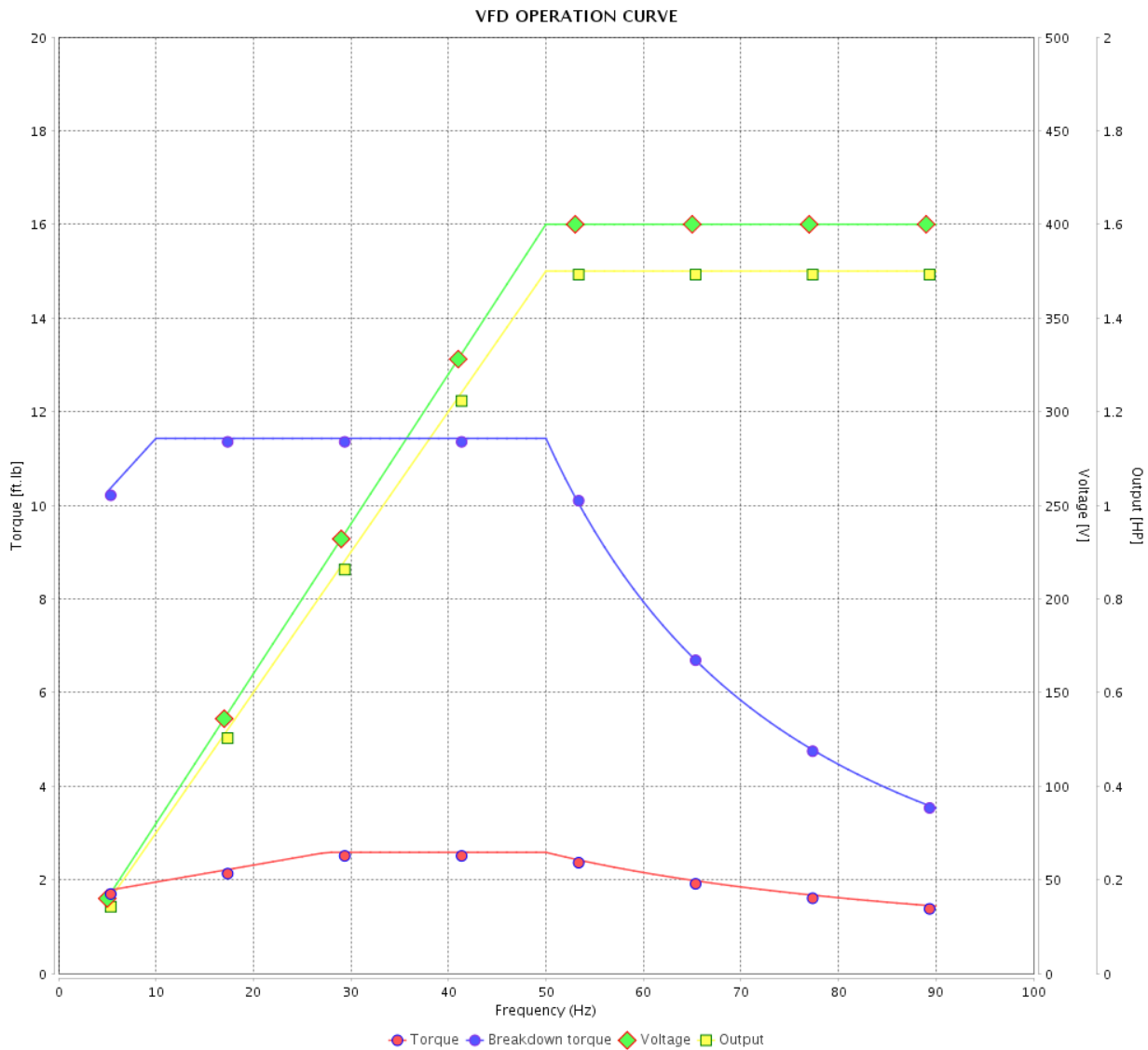


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11456827

Catalog # : 00236ET3E145T-W22



Performance : 400 V 50 Hz 2P IE3

Rated current : 2.22 A
 LRC : 9.2
 Rated torque : 2.72 ft.lb
 Locked rotor torque : 409 %
 Breakdown torque : 420 %
 Rated speed : 2895 rpm

Moment of inertia (J) : 0.0605 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

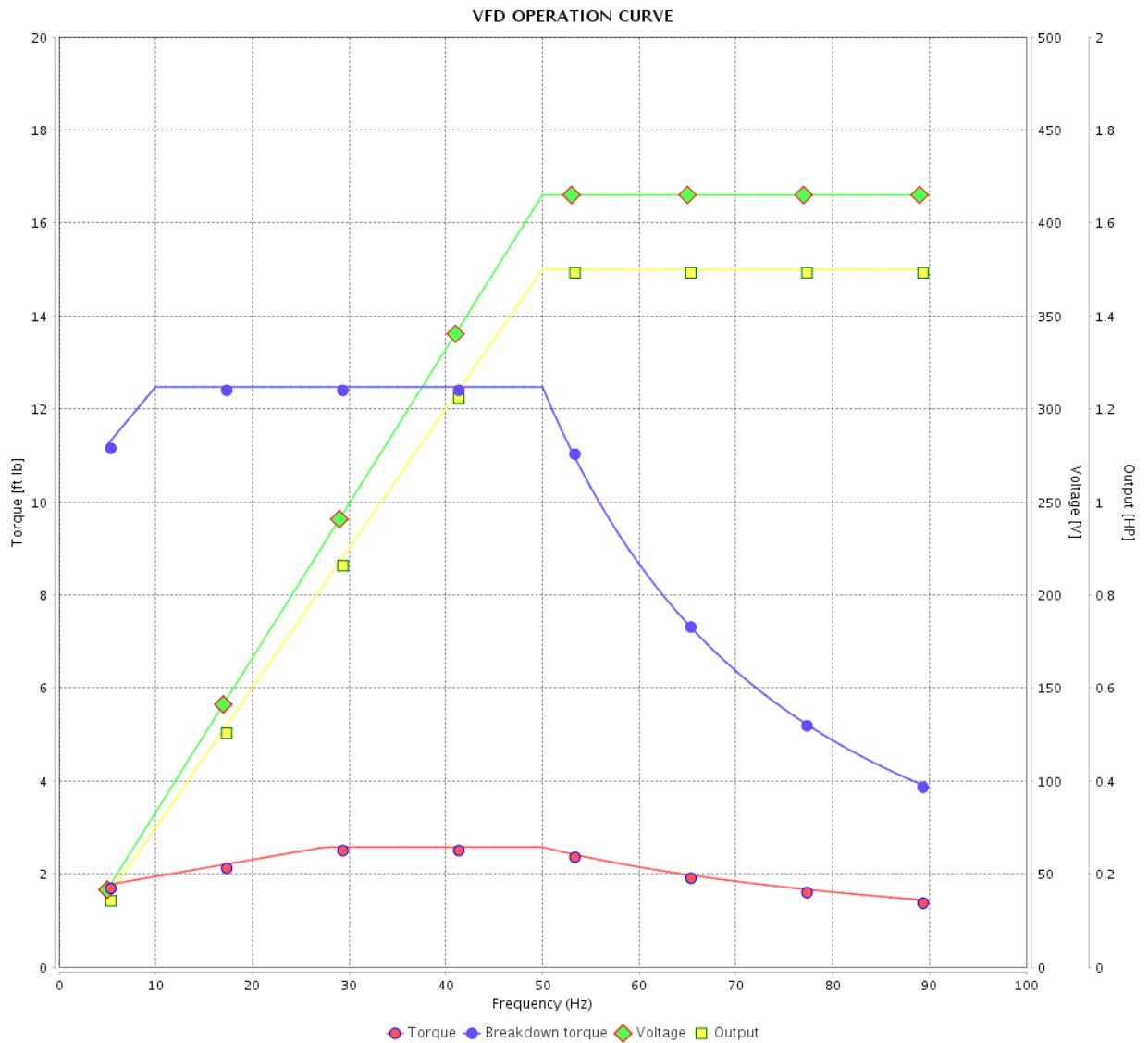


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11456827

Catalog # : 00236ET3E145T-W22



Performance : 415 V 50 Hz 2P IE3

Rated current : 2.19 A
 LRC : 9.7
 Rated torque : 2.71 ft.lb
 Locked rotor torque : 450 %
 Breakdown torque : 459 %
 Rated speed : 2905 rpm

Moment of inertia (J) : 0.0605 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



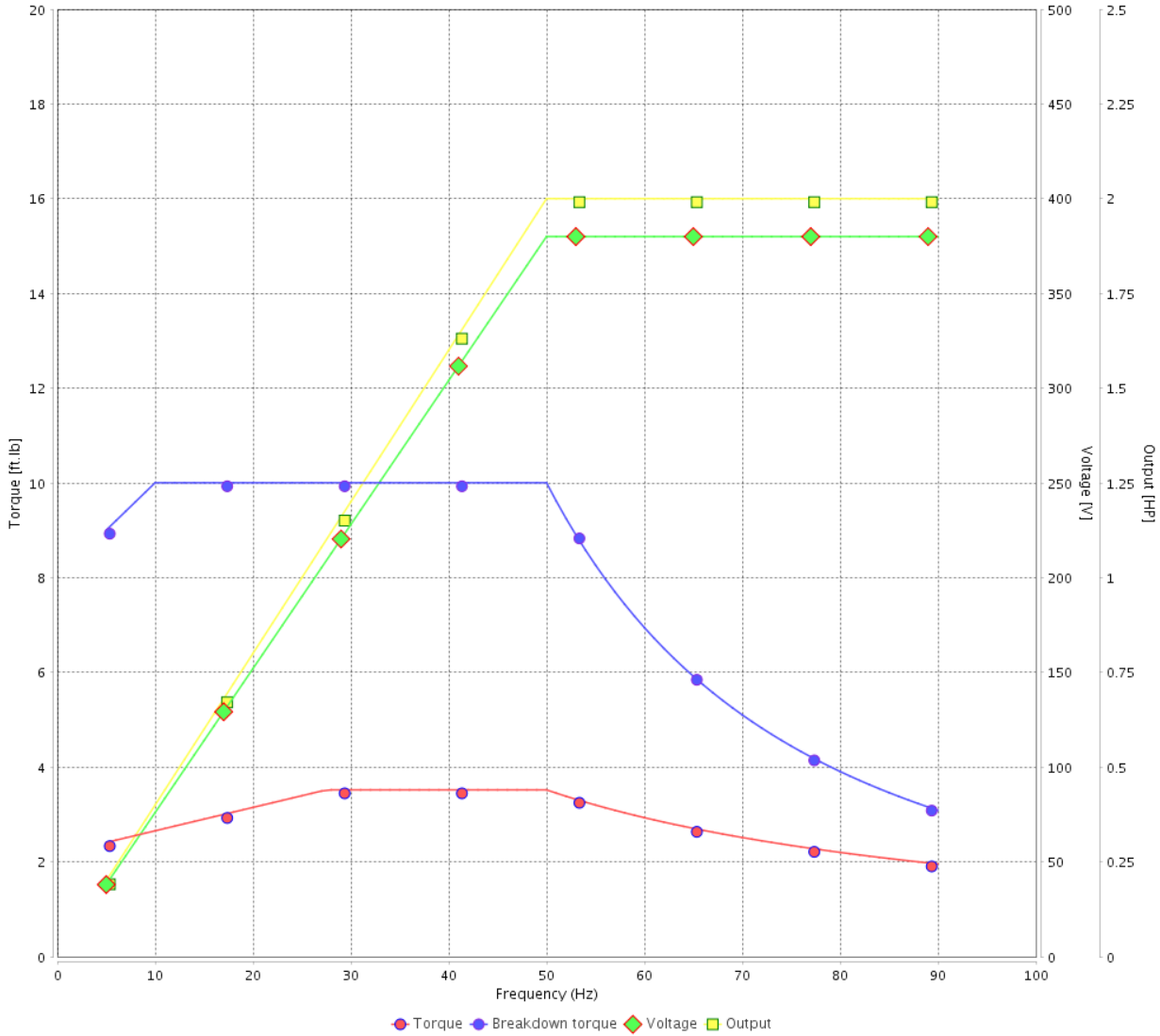
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11456827

Catalog # : 00236ET3E145T-W22

VFD OPERATION CURVE



Performance : 380 V 50 Hz 2P IE2

Rated current : 3.07 A
 LRC : 6.5
 Rated torque : 3.70 ft.lb
 Locked rotor torque : 270 %
 Breakdown torque : 270 %
 Rated speed : 2835 rpm

Moment of inertia (J) : 0.0605 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				

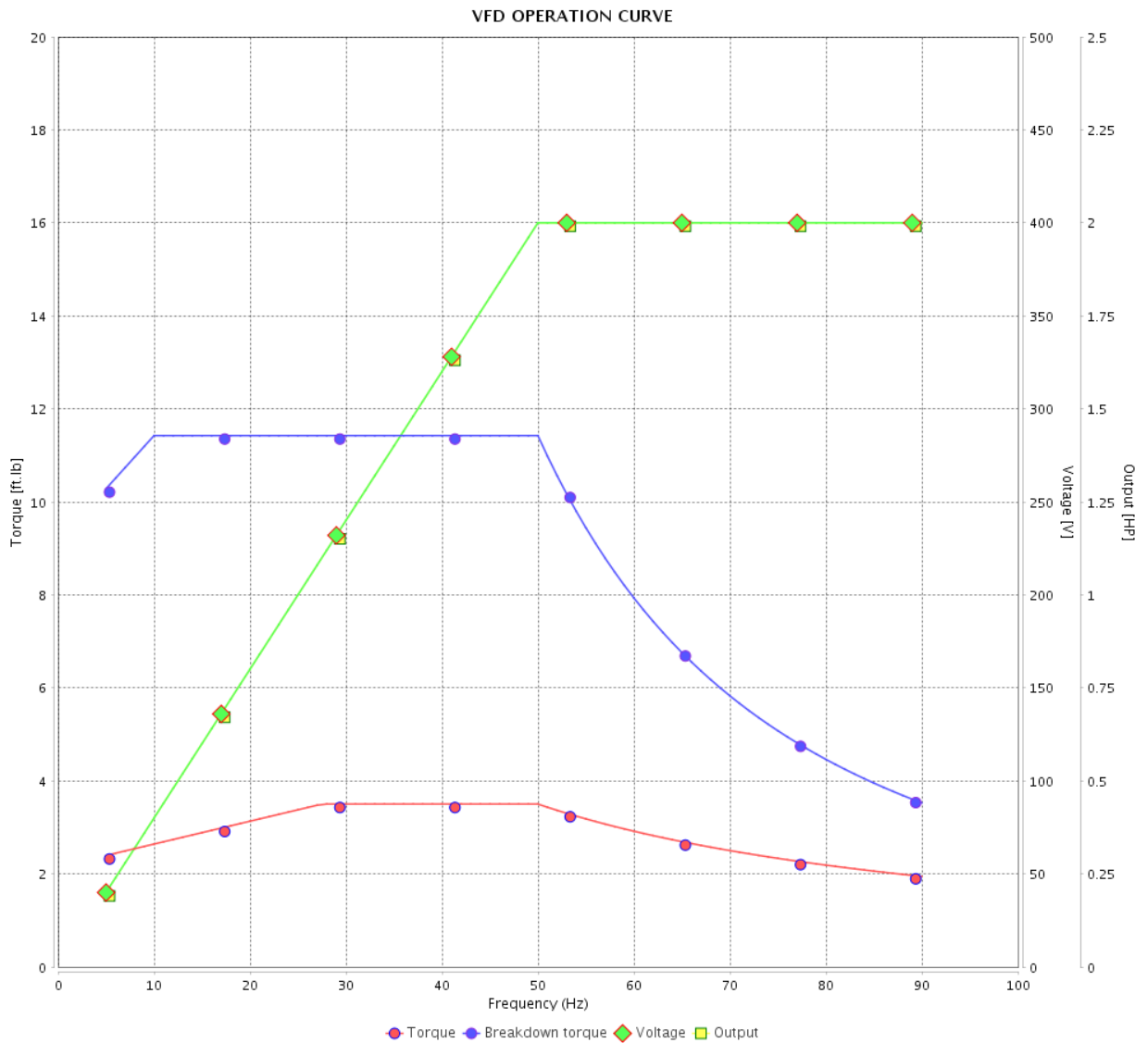
VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase
 Product code : 11456827
 Catalog # : 00236ET3E145T-W22



Performance : 400 V 50 Hz 2P IE2

Rated current	: 2.90 A	Moment of inertia (J)	: 0.0605 sq.ft.lb
LRC	: 7.2	Duty cycle	: Cont.(S1)
Rated torque	: 3.69 ft.lb	Insulation class	: F
Locked rotor torque	: 300 %	Service factor	: 1.25
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 2850 rpm	Design	: B

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Date	13/04/2022			

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



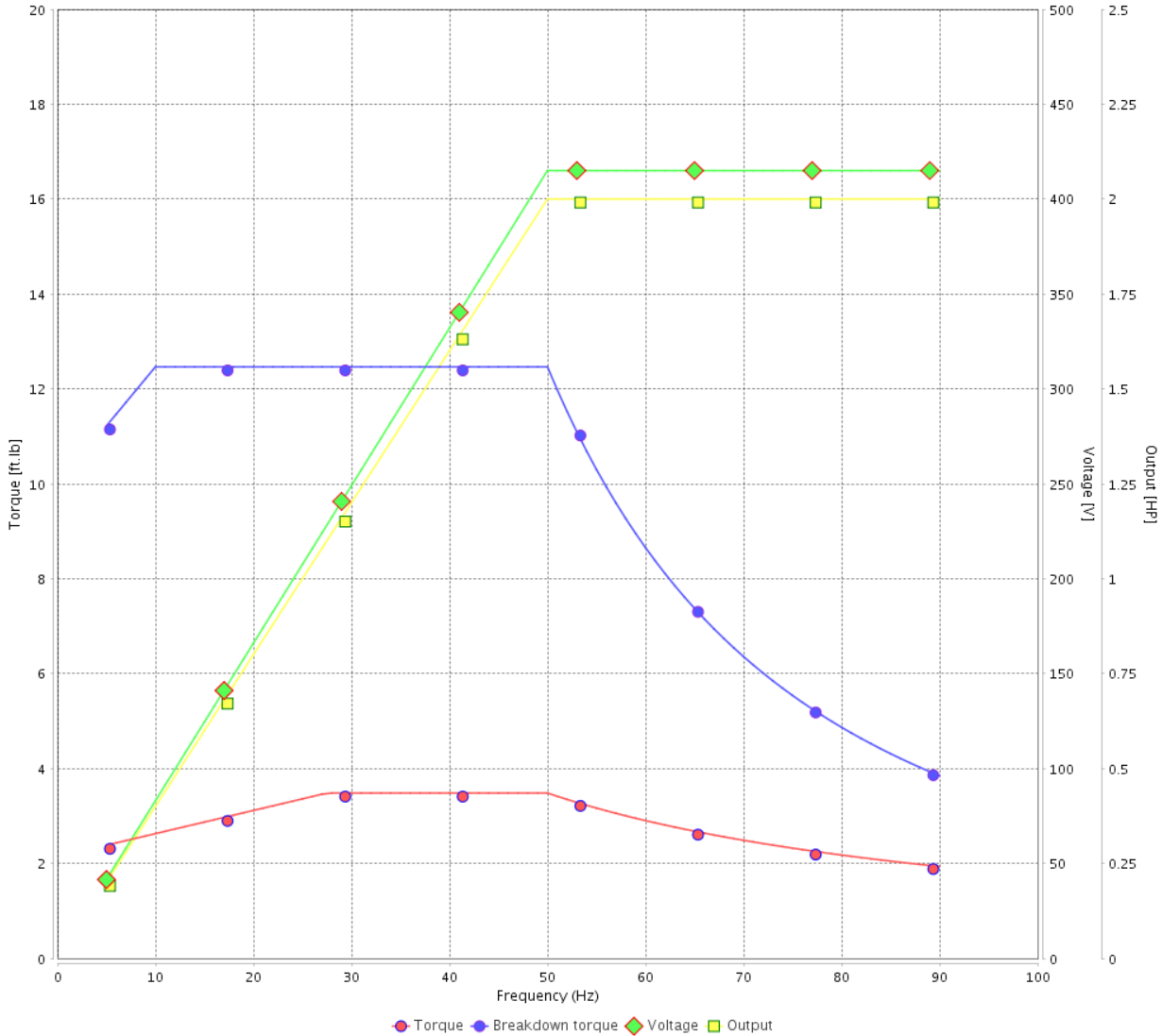
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11456827

Catalog # : 00236ET3E145T-W22

VFD OPERATION CURVE

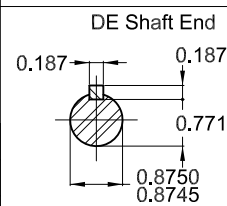
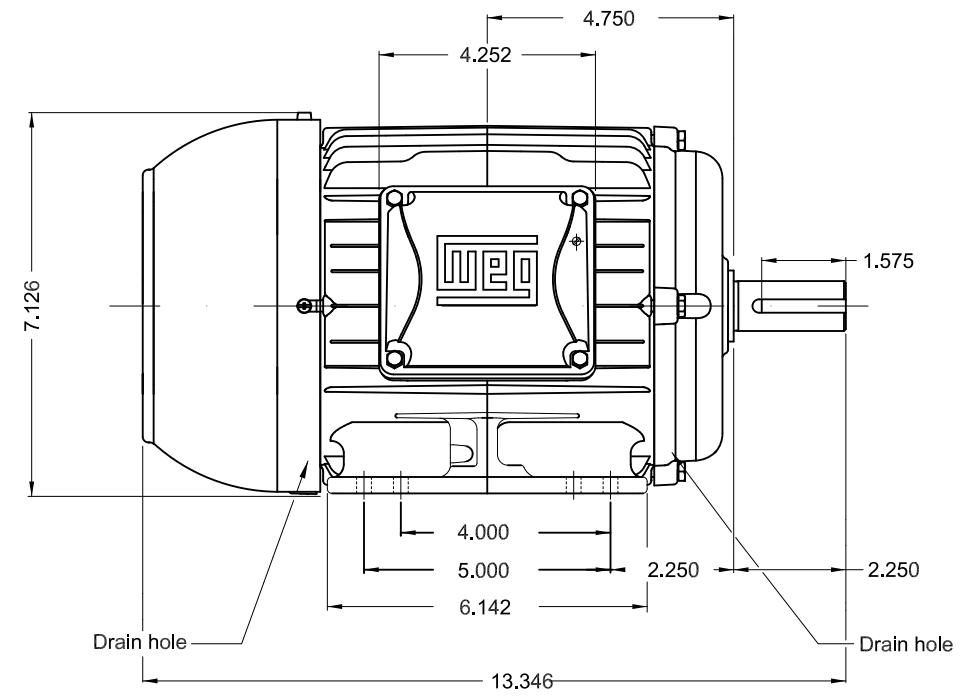
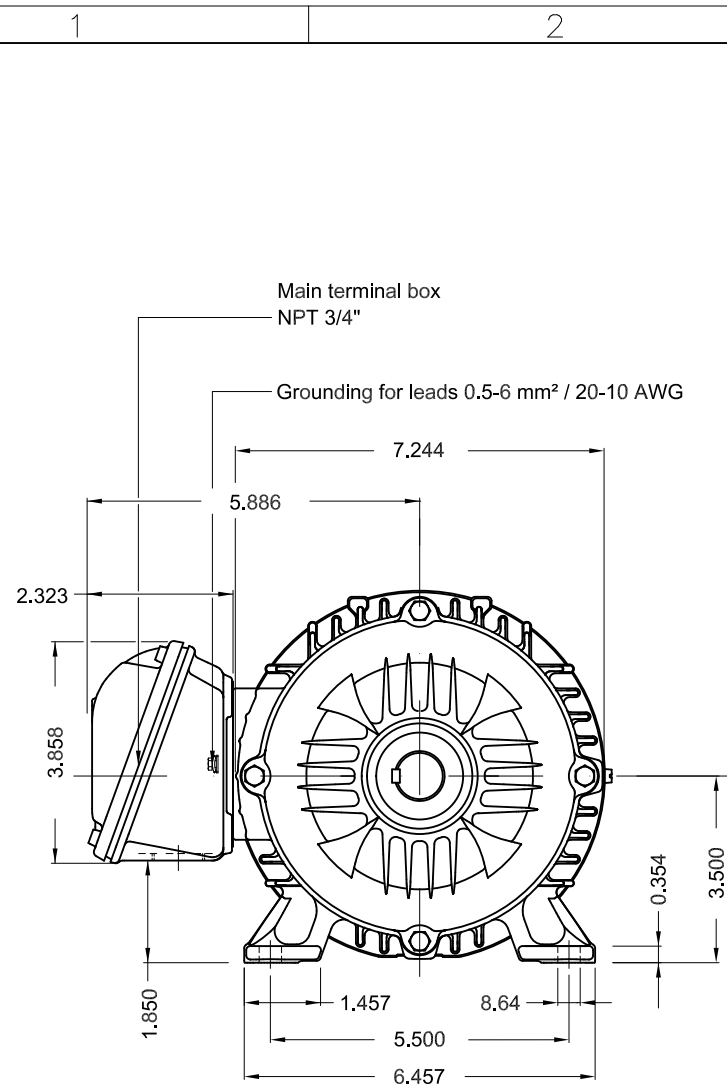


Performance : 415 V 50 Hz 2P IE2

Rated current : 2.82 A
 LRC : 7.7
 Rated torque : 3.67 ft.lb
 Locked rotor torque : 330 %
 Breakdown torque : 340 %
 Rated speed : 2865 rpm

Moment of inertia (J) : 0.0605 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 36 / 36	Revision
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Date	13/04/2022			



Color RAL 5009
Painting plan 207A
Mounting B3R(D)

2 HP 02 Poles 60 Hz

Dimensions in inches

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	PIRWBUSER	THREE PH. MOTOR W22 PREM. EFF.					
CHECKED		FRAME 143/5T IP55 TEFC					
RELEASED							
REL DT.	WMO	Jaragua do Sul	Product Engineering				

PREVIEW
WDD



SHEET 1 / 1

MADE IN BRAZIL
11456827



MODEL 00236ET3E145T-W22

Inverter Duty Motor
Severe Duty



For use on 60Hz
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 - T5
For use on PWM: Gr. A, B, C, D, F and G,
VT 1000:1, CT 20:1, 1.00SF - T4A



FOR SAFE AREA
Mod. TE1BFOXON
CC029A

PH3 60Hz Fr. 143/5T 1000m.a.s.l. IP55 TEFC 50lb

V 230/460

A 5.12/2.56

HP 2.0

kW 1.5

SF 1.25

SFA 6.40/3.20

RPM 3475

PF 0.86

AMB 40°C

INS cl. F DT80K

NEMA NOM EFF 85.5%

DUTY CONT.

DES B Code L

USABLE @208V 5.60A SF 1.15 SFA 6.44

2.0HP 1.5kW 50Hz 380V 3.07A 2835RPM SF 1.25 SFA 3.84 EFF 82.5% (IE2)

