

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer								
Product line		: NEMA Premium Efficiency Three-Phase			Product code :		11606710	
					Catalog # :		00236ET3E145TC-W22	
Frame		: 143/5TC			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		: 52.7 lb	
Protection degree		: IP55			Moment of inertia (J)		: 0.0605 sq.ft.lb	
Design		: B						
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%	82.0	80.8	79.1	78.9	83.3	82.1	82.1
	50%	82.5	81.4	80.3	80.1	82.5	82.5	82.5
	75%	85.5	83.3	83.1	83.1	84.0	84.0	84.0
	100%	85.5	83.5	84.0	84.0	82.5	84.0	84.0
Power Factor	25%	0.47	0.45	0.42	0.40	0.54	0.51	0.48
	50%	0.71	0.69	0.66	0.64	0.79	0.76	0.73
	75%	0.80	0.81	0.78	0.76	0.86	0.84	0.83
	100%	0.86	0.87	0.85	0.83	0.90	0.89	0.88
Bearing type		Drive end 6205 ZZ	Non drive end 6204 ZZ	Foundation loads				
Sealing		V'Ring	V'Ring	Max. traction		: 82 lb		
Lubrication interval		-	-	Max. compression		: 135 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



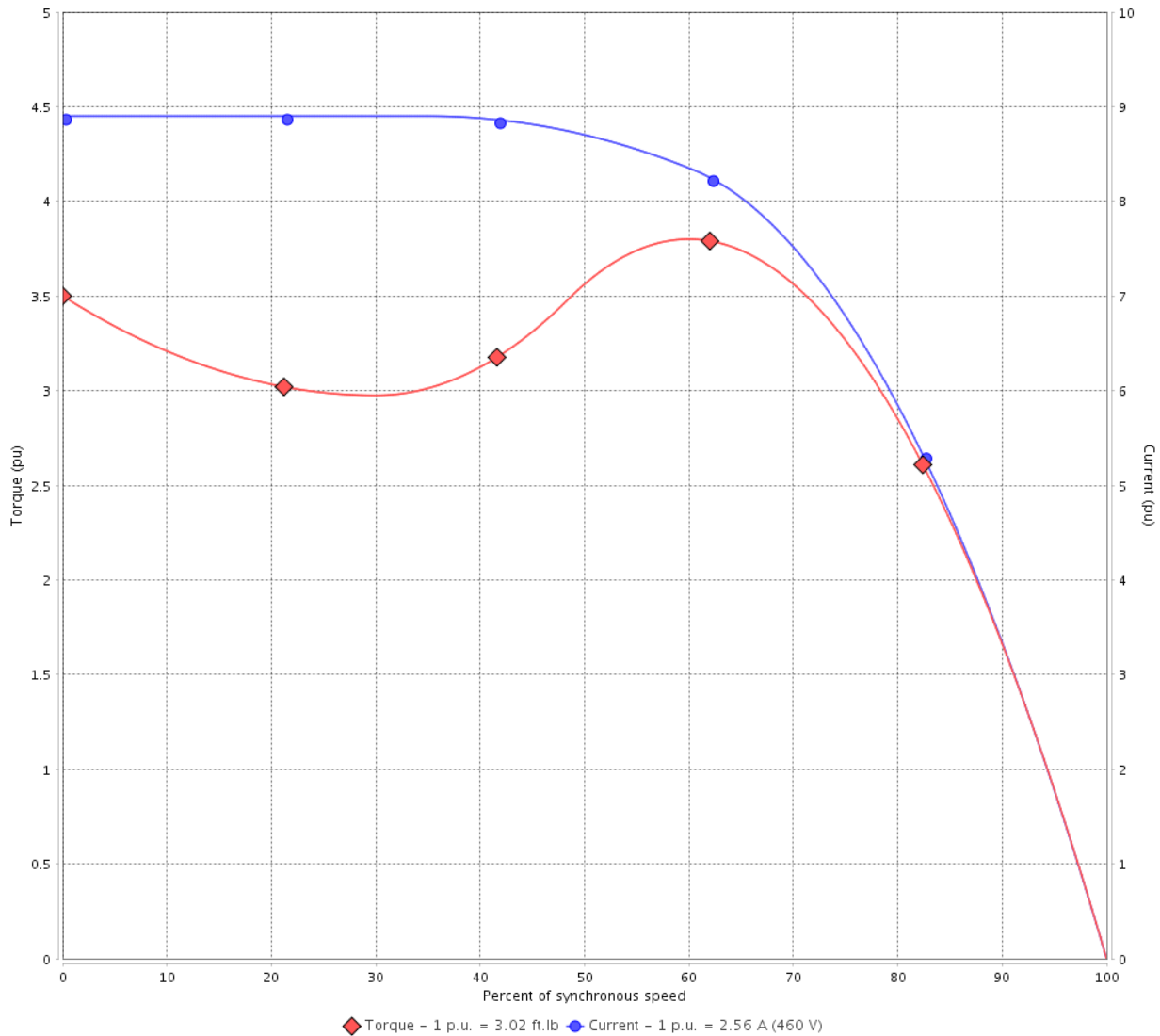
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11606710

Catalog # : 00236ET3E145TC-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



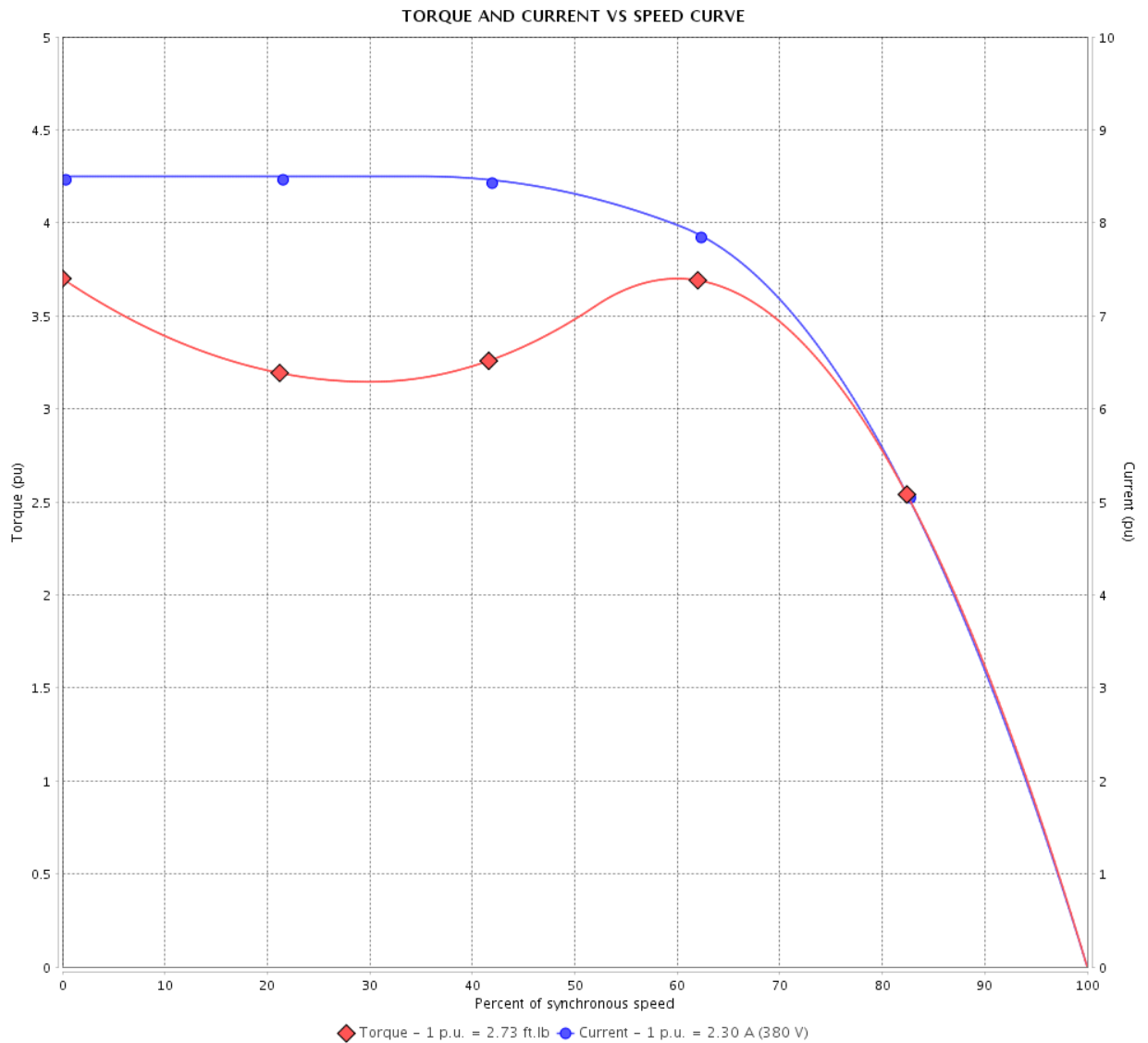
Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11606710

Catalog # : 00236ET3E145TC-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

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

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



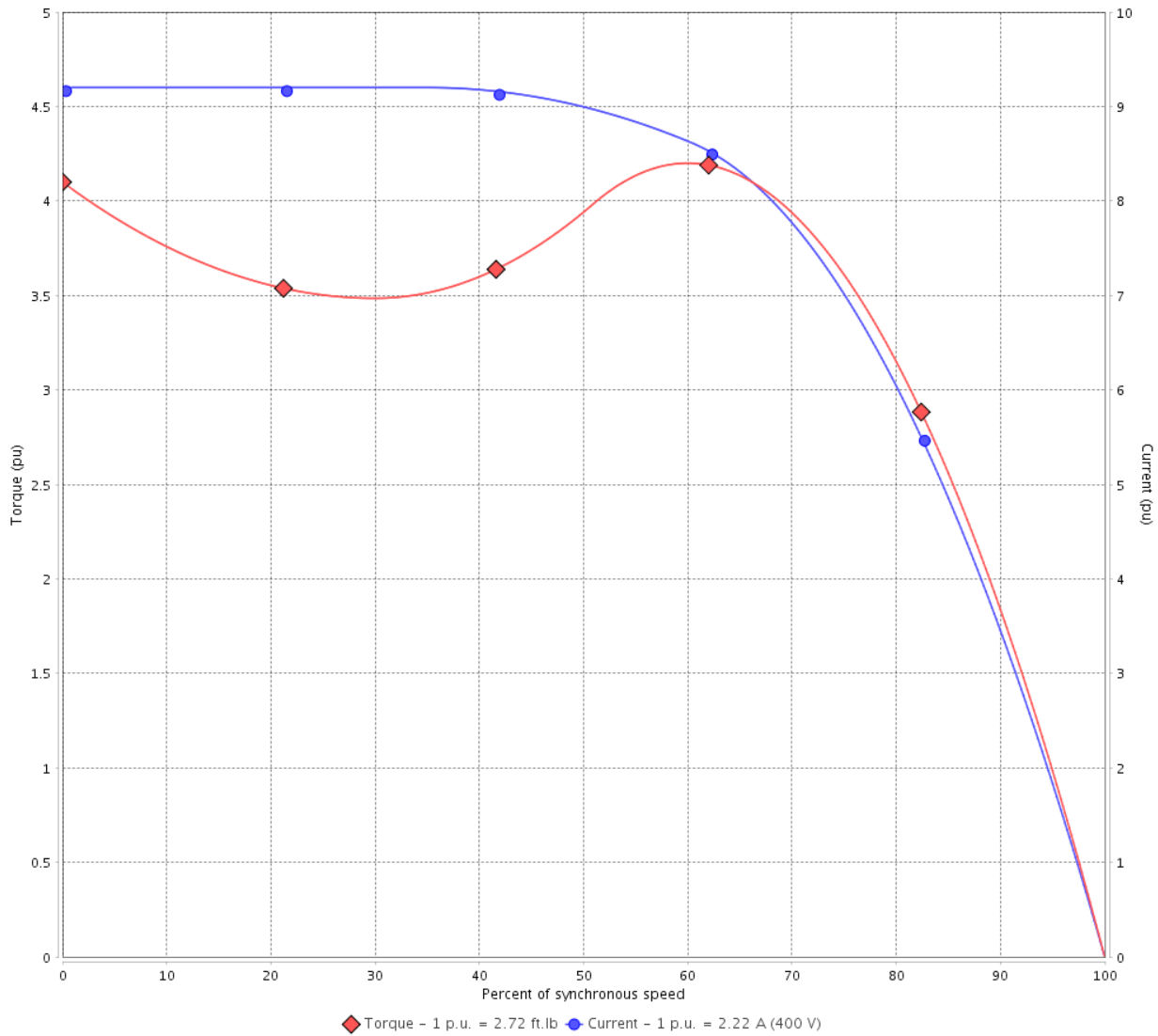
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TORQUE AND CURRENT VS SPEED CURVE



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



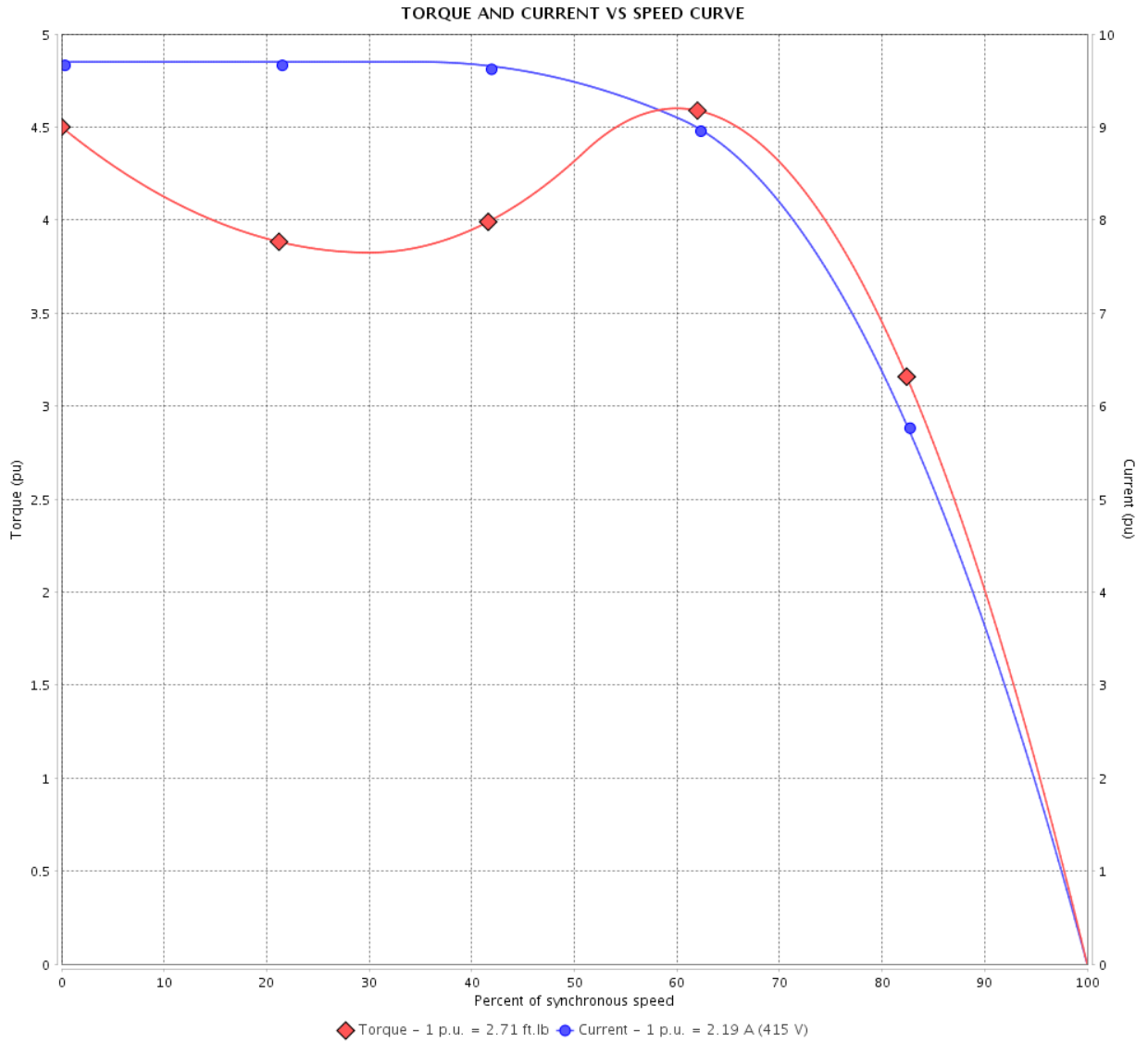
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Performance : 415 V 50 Hz 2P IE3

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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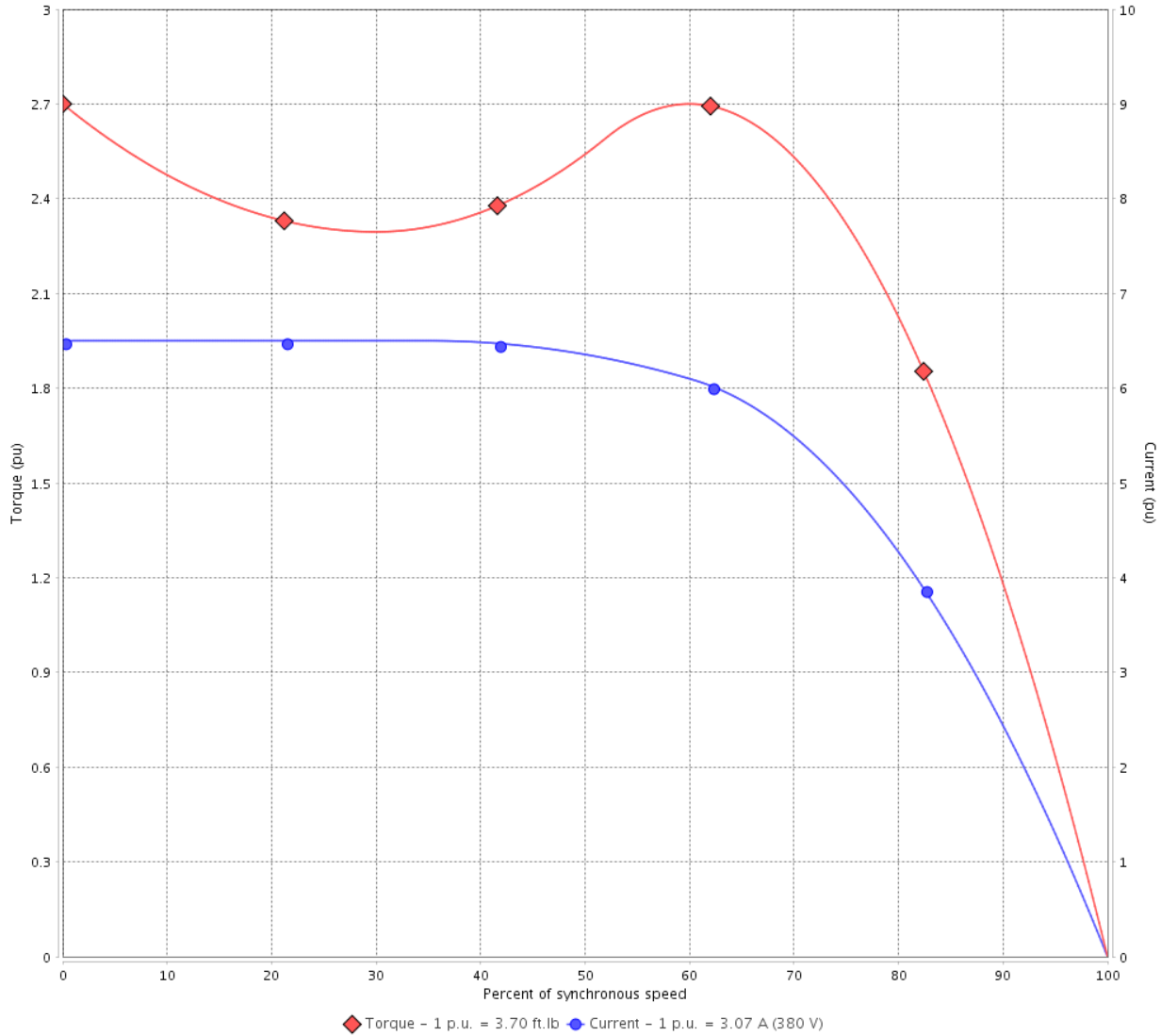
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TORQUE AND CURRENT VS SPEED CURVE



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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TORQUE AND CURRENT VS SPEED CURVE



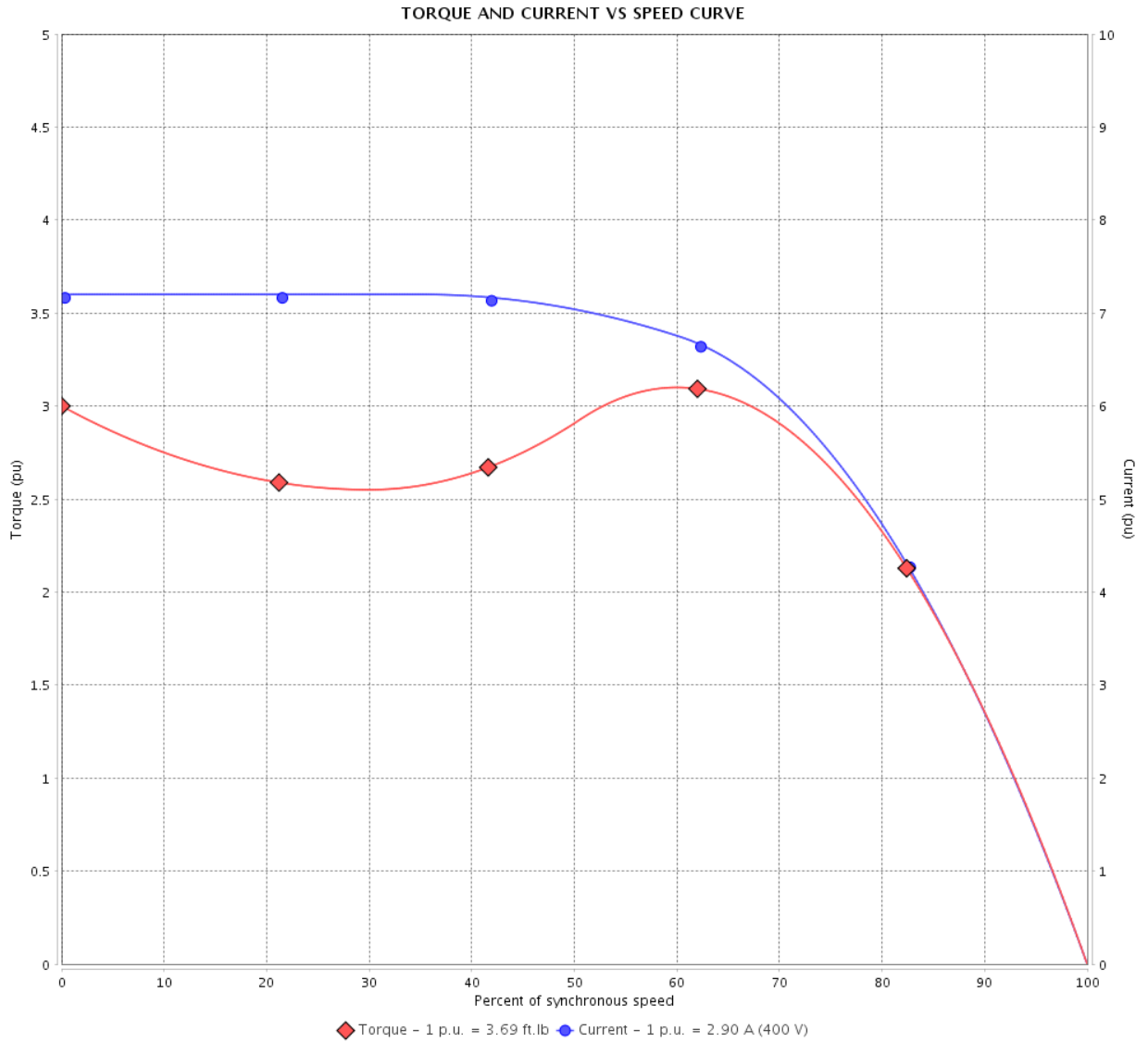
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Catalog # : 00236ET3E145TC-W22



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

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

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TORQUE AND CURRENT VS SPEED CURVE

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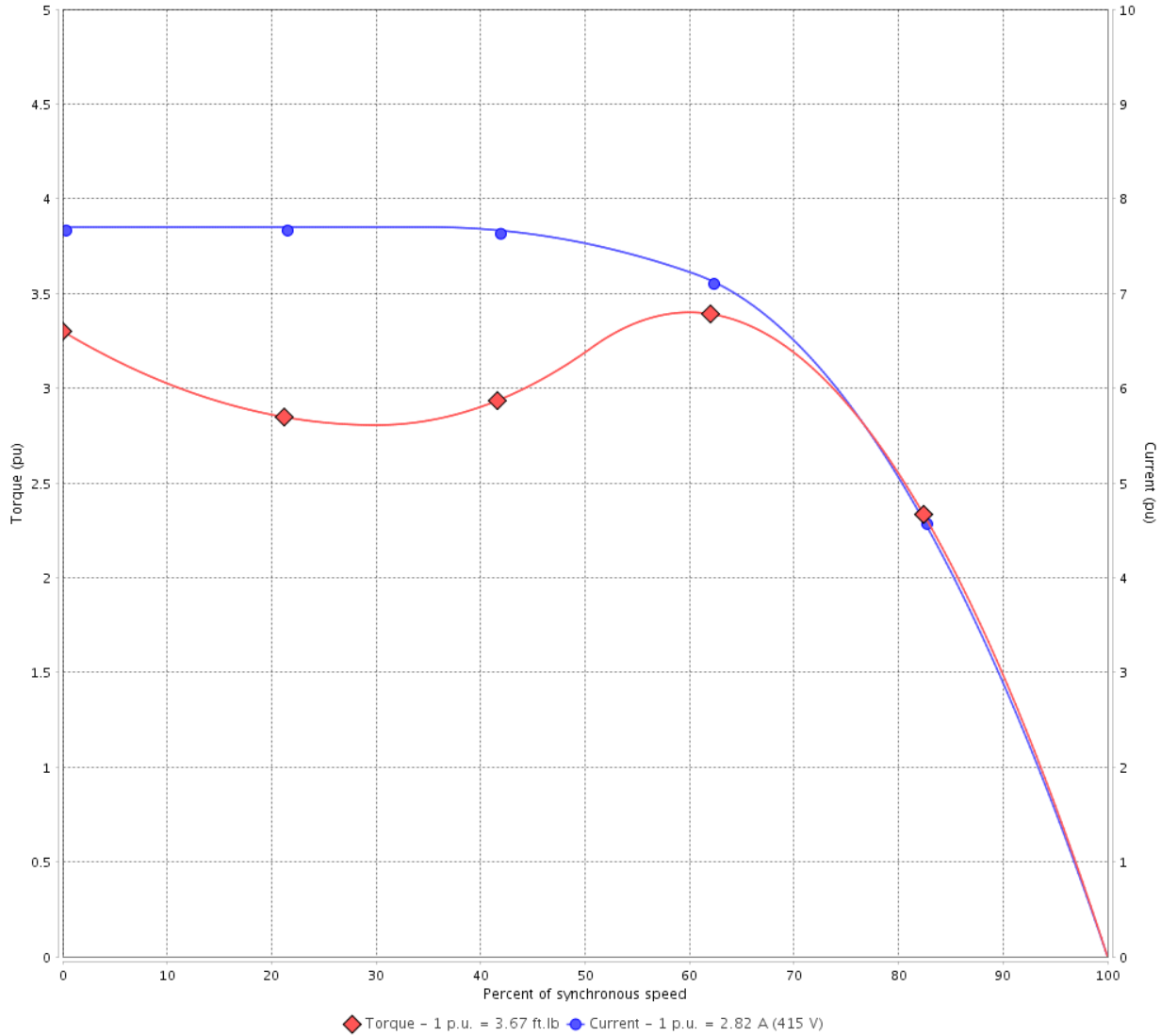
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TORQUE AND CURRENT VS SPEED CURVE



Performance : 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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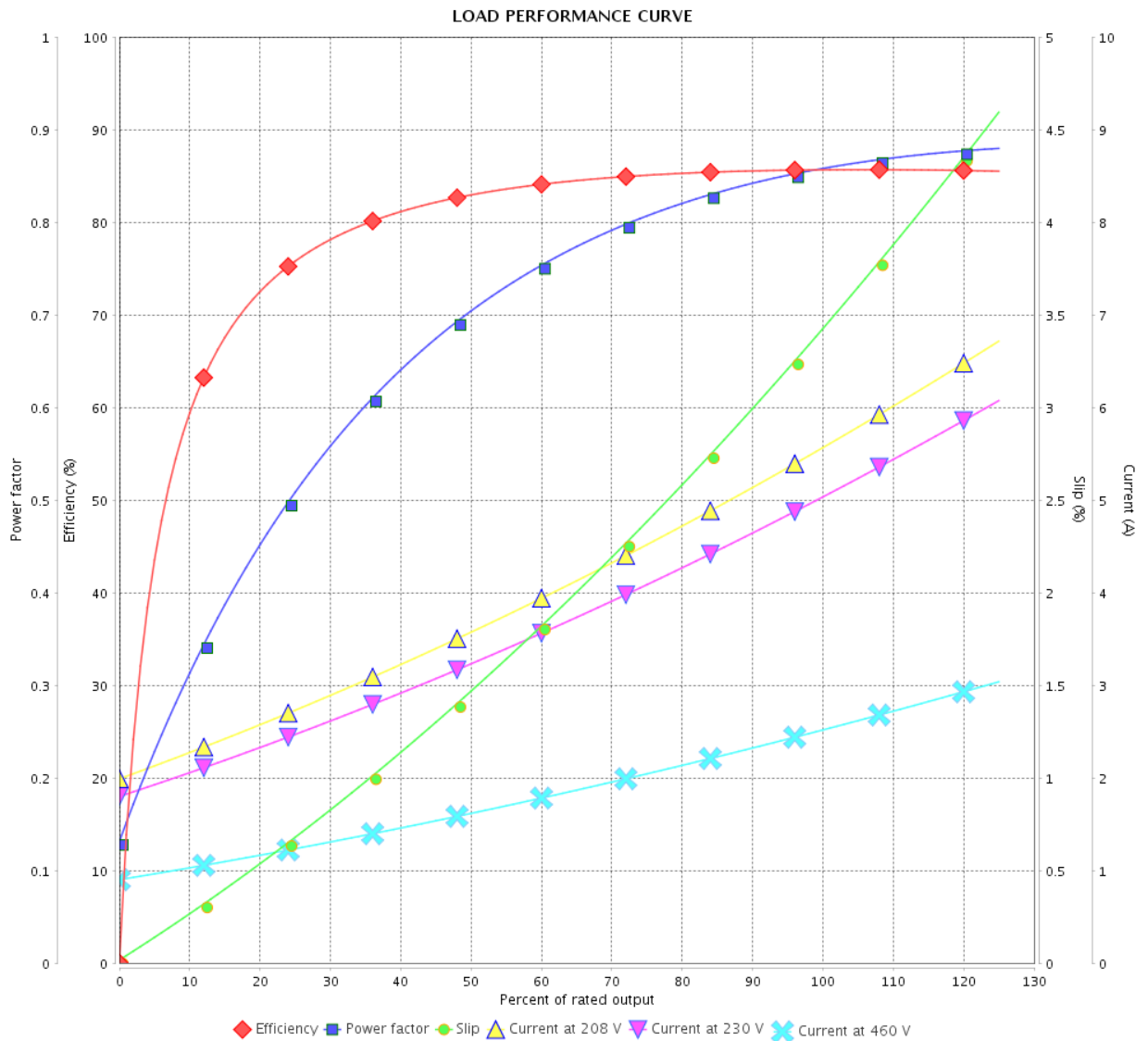


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Performance : 230/460 V 60 Hz 2P

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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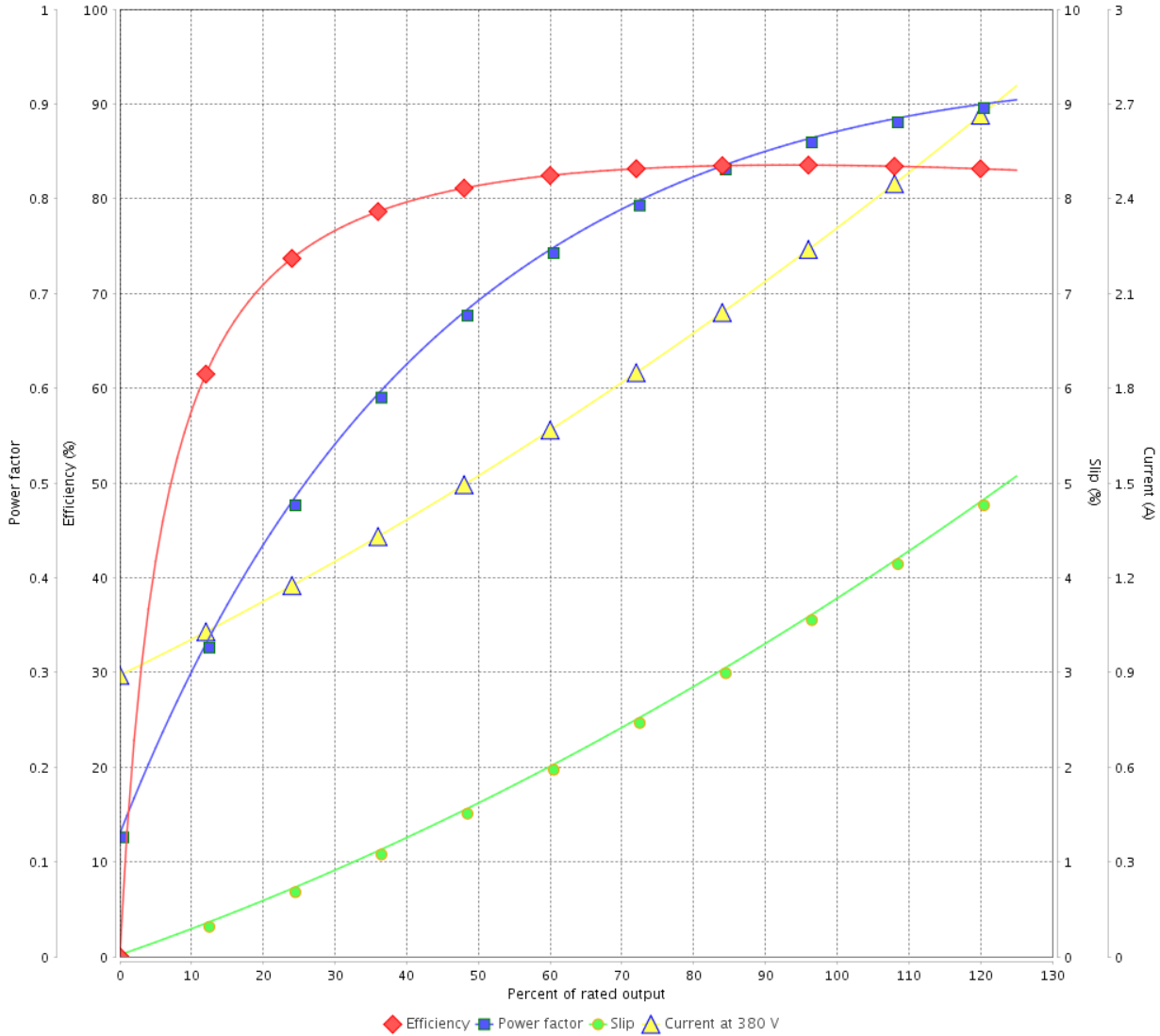
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Performance : 380 V 50 Hz 2P IE3

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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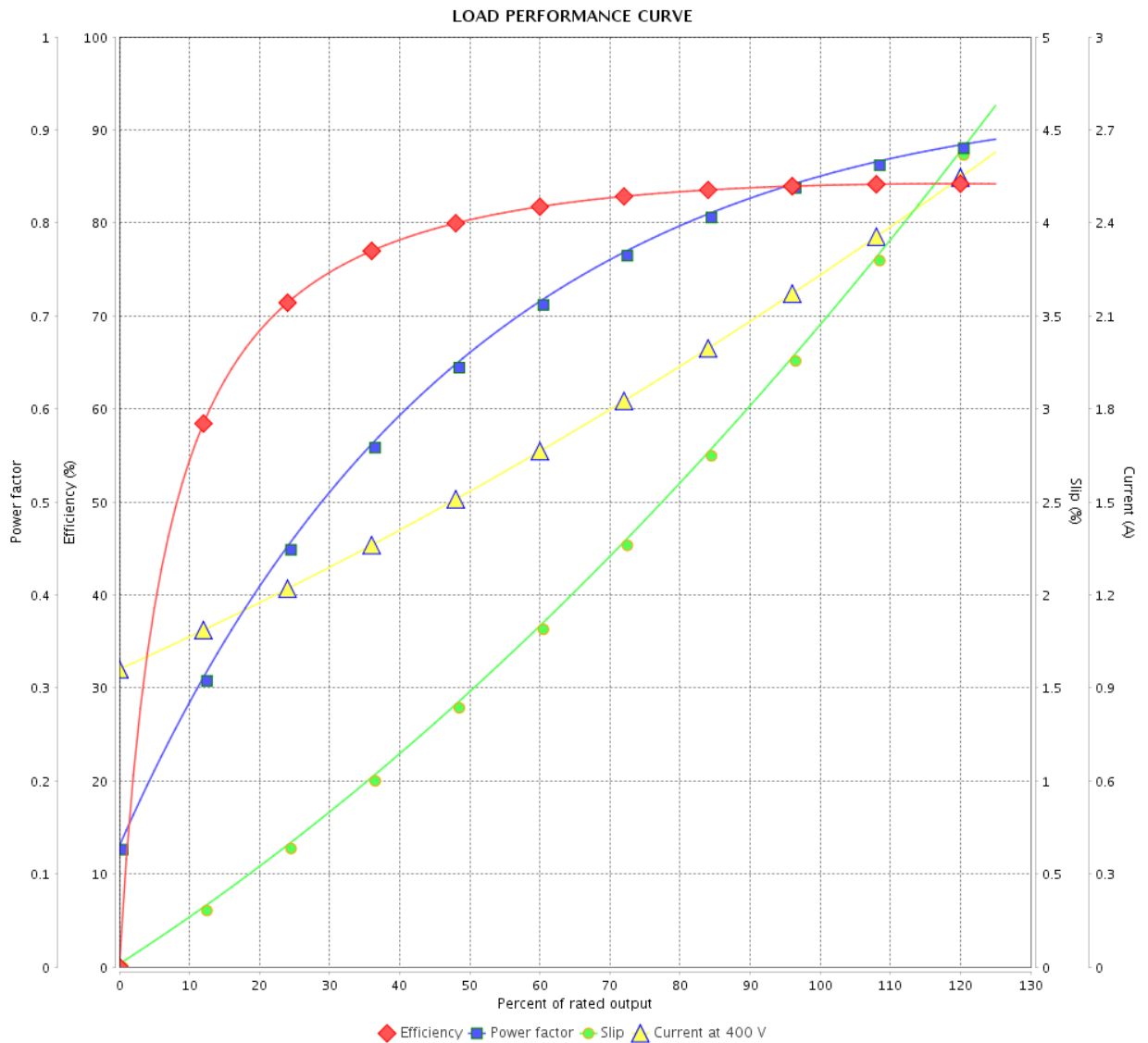


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Performance : 400 V 50 Hz 2P IE3

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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Three Phase Induction Motor - Squirrel Cage



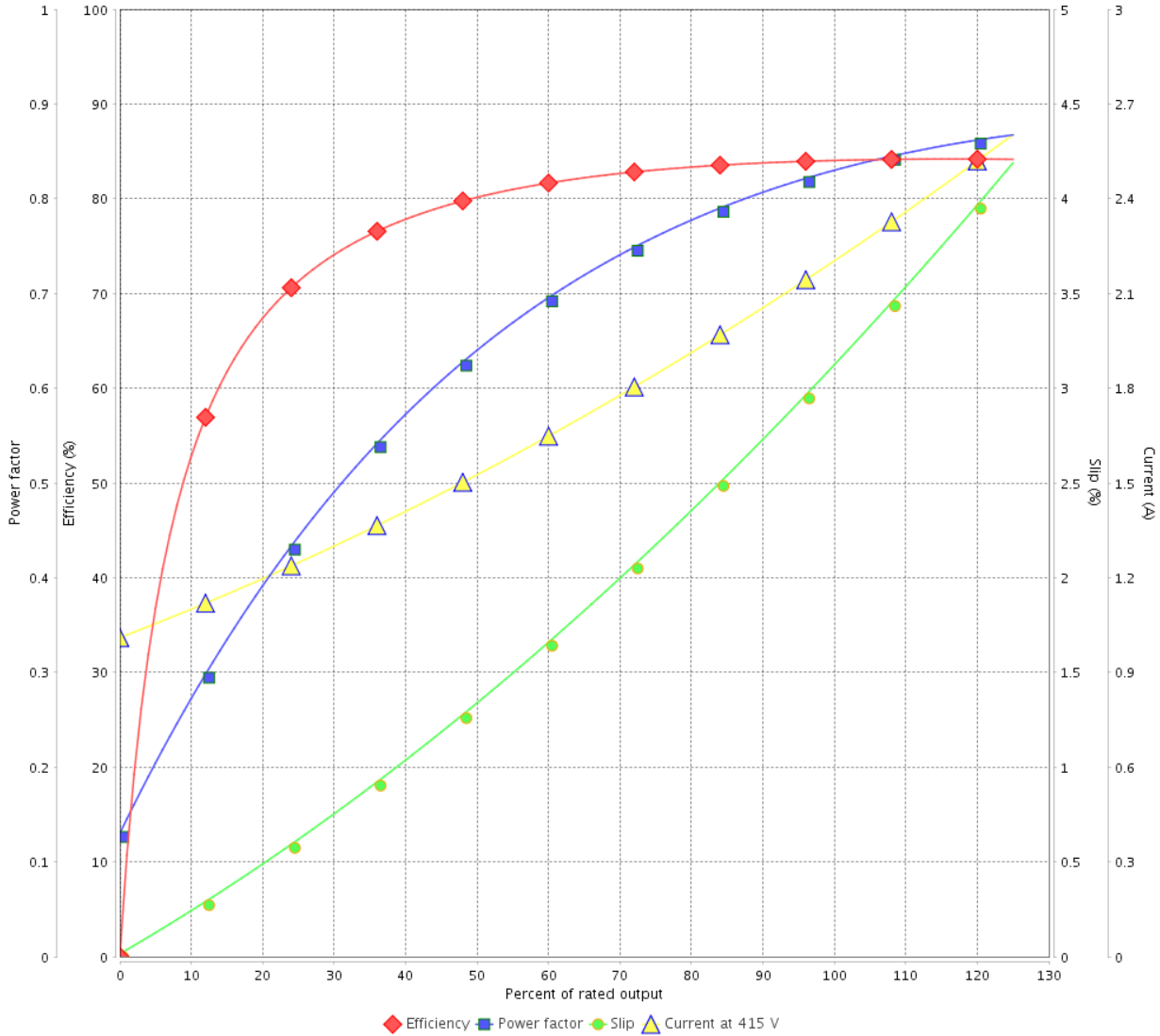
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Performance : 415 V 50 Hz 2P IE3

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

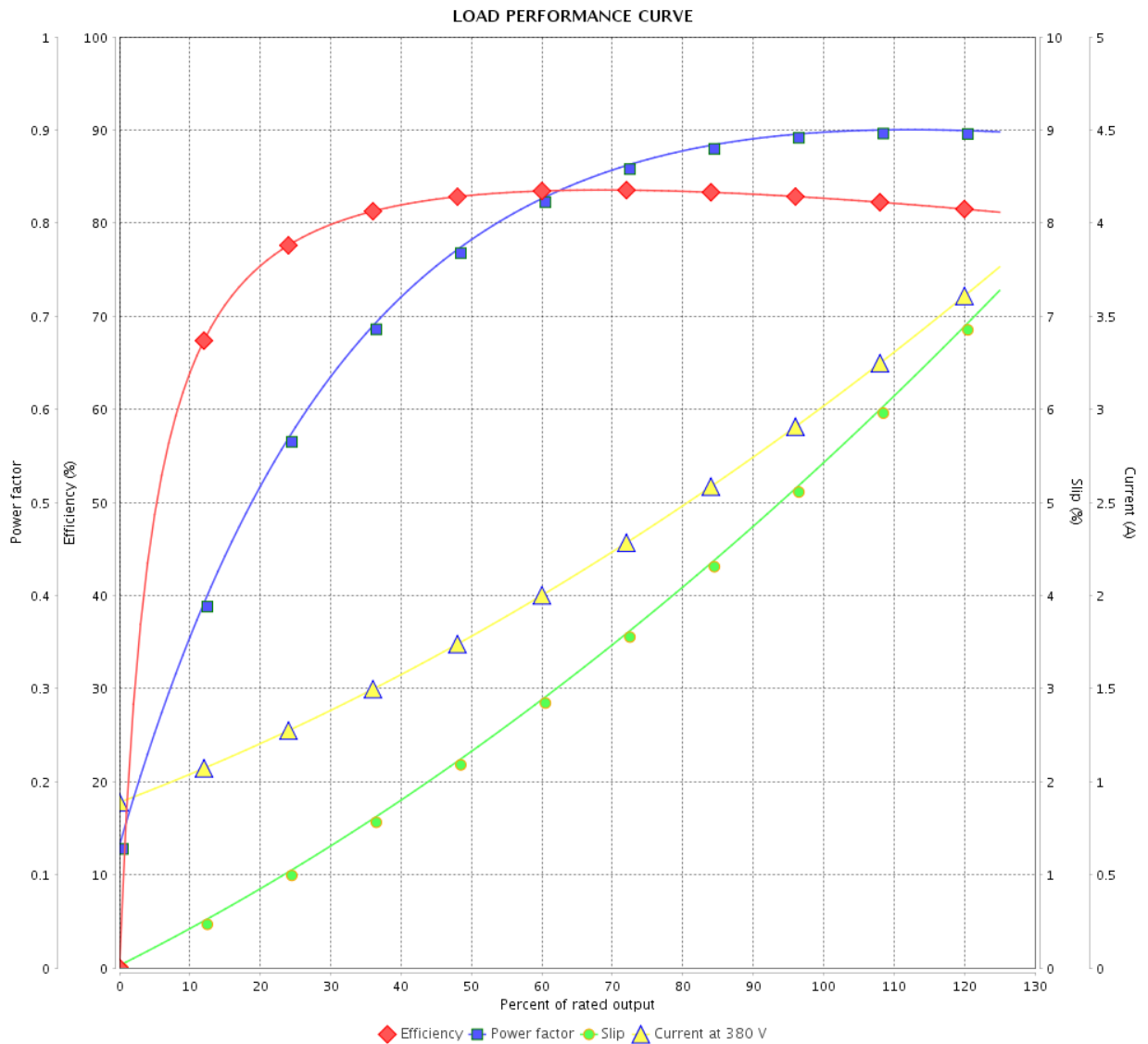


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Product line : NEMA Premium Efficiency Three-Phase

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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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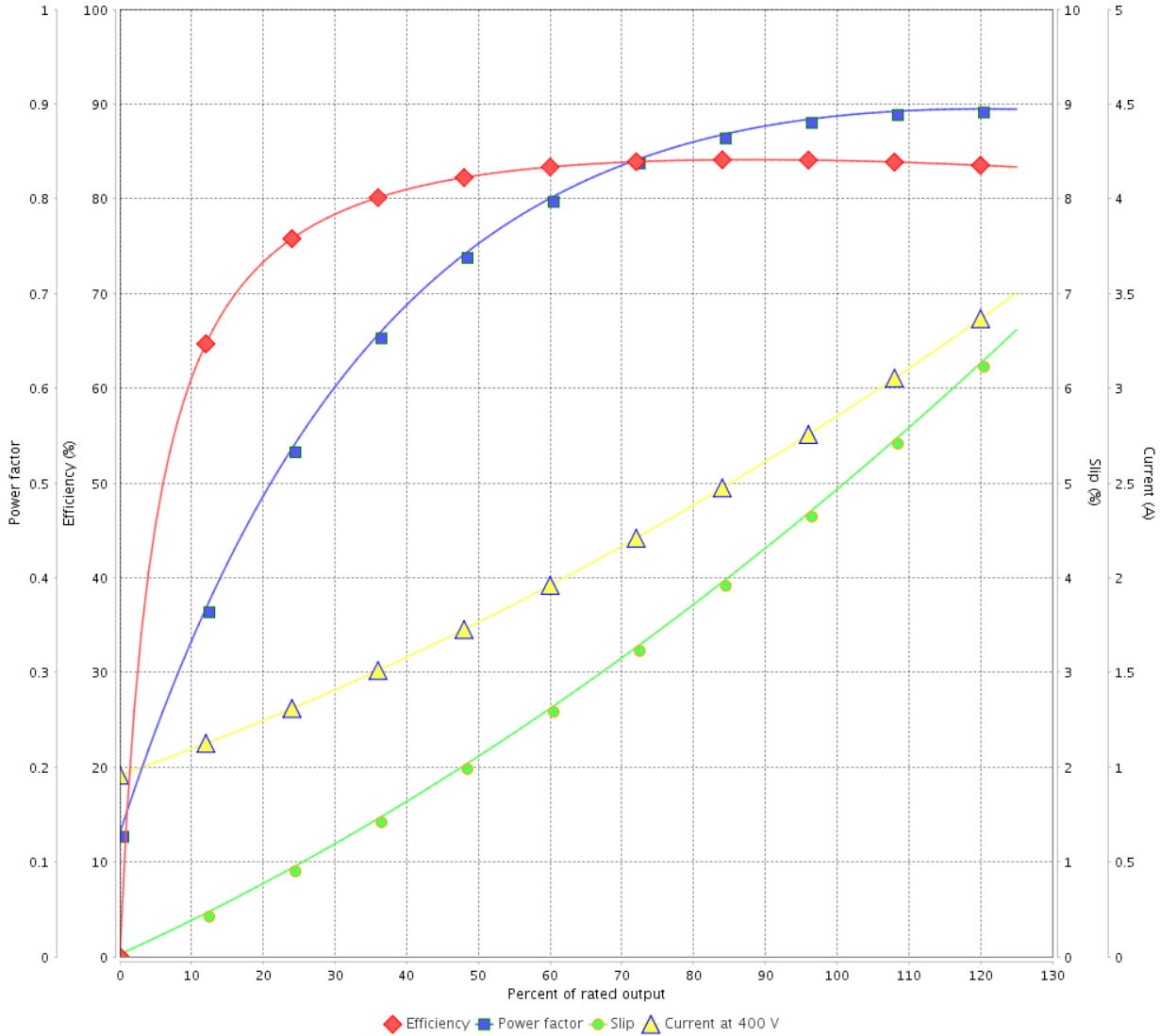
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Performance : 400 V 50 Hz 2P IE2

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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Three Phase Induction Motor - Squirrel Cage

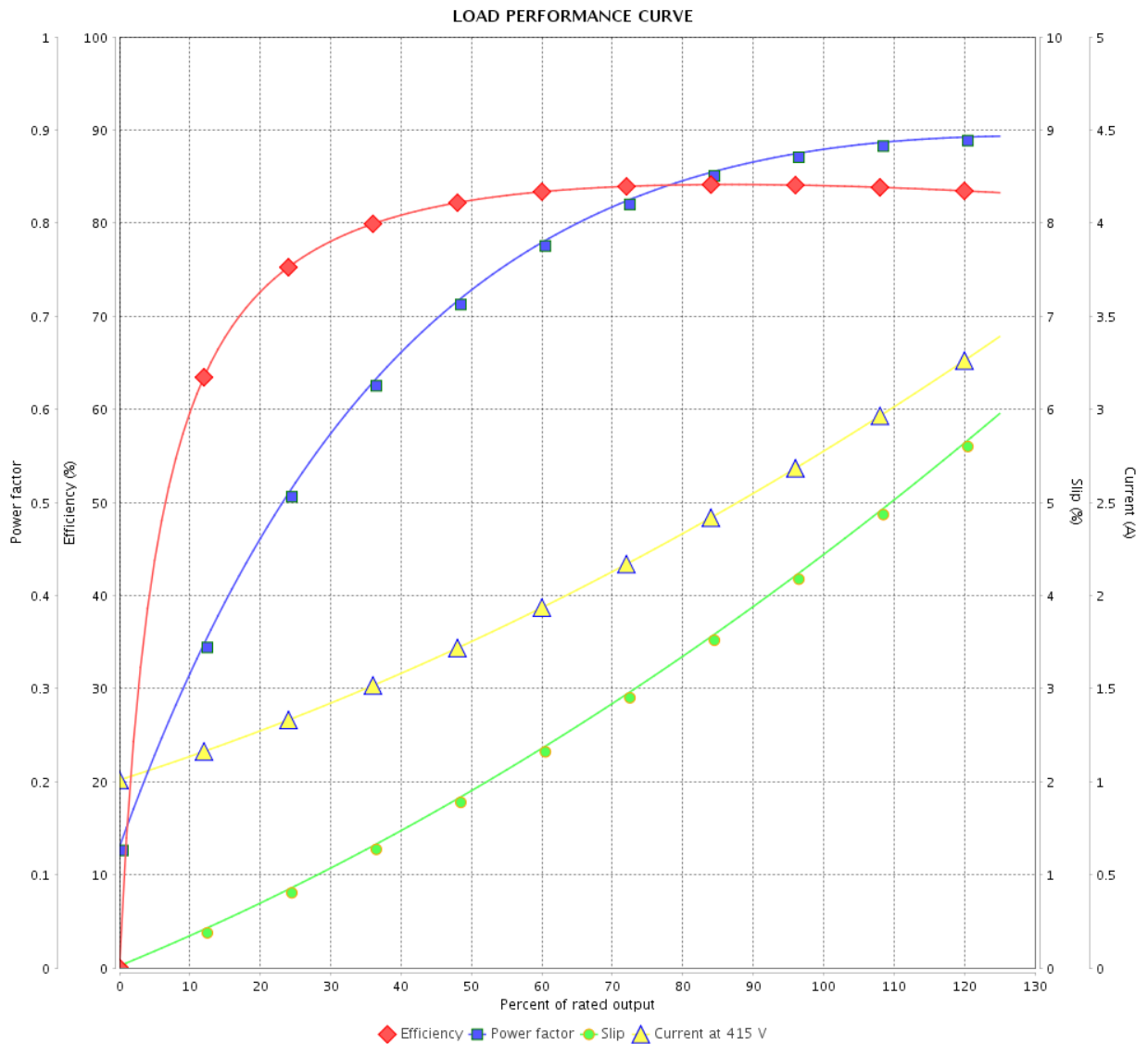


Customer : _____

Product line : NEMA Premium Efficiency Three-Phase

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Catalog # : 00236ET3E145TC-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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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase
Product code : 11606710
Catalog # : 00236ET3E145TC-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

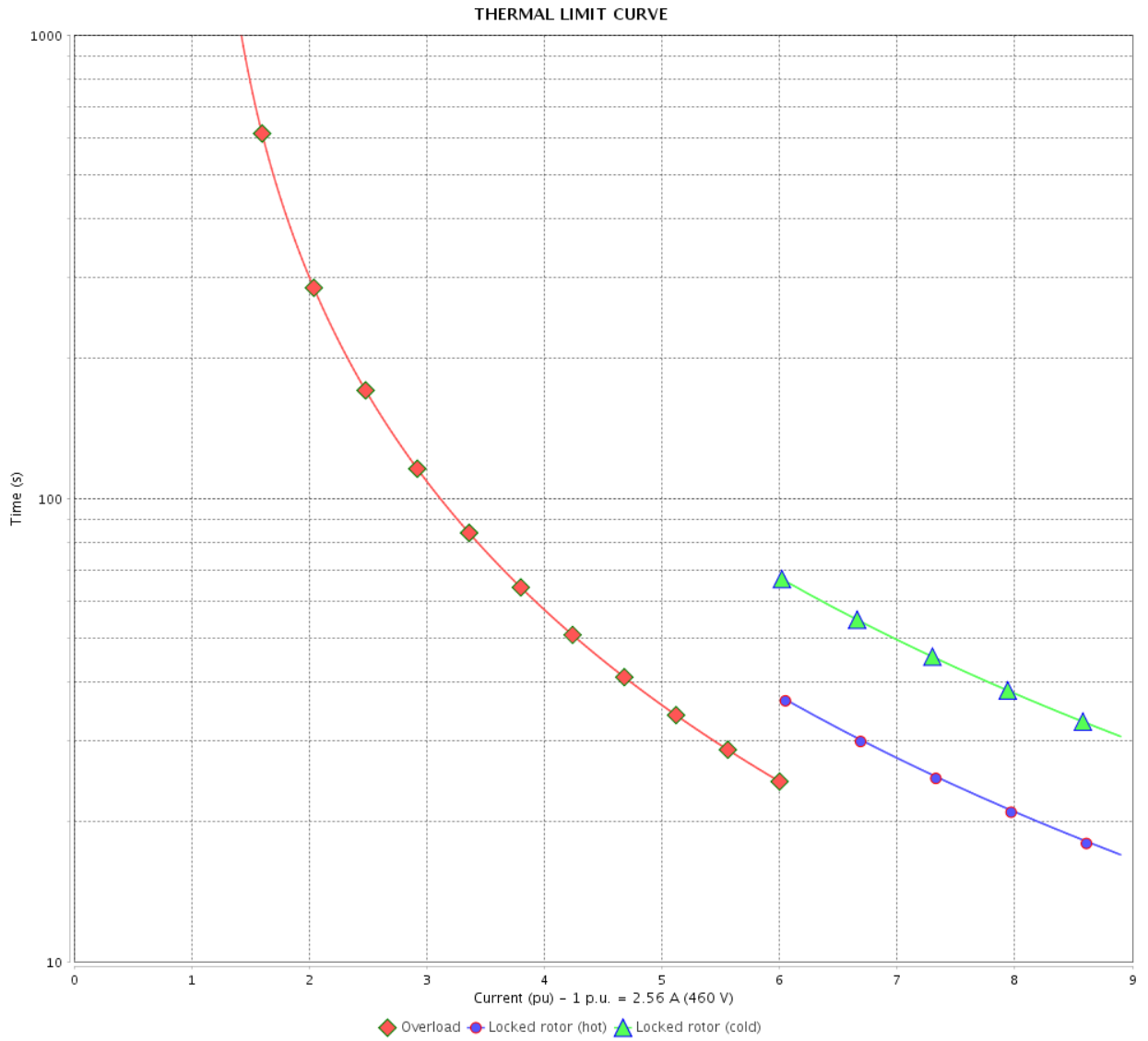
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Three Phase Induction Motor - Squirrel Cage



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THERMAL LIMIT CURVE



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase
Product code : 11606710
Catalog # : 00236ET3E145TC-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

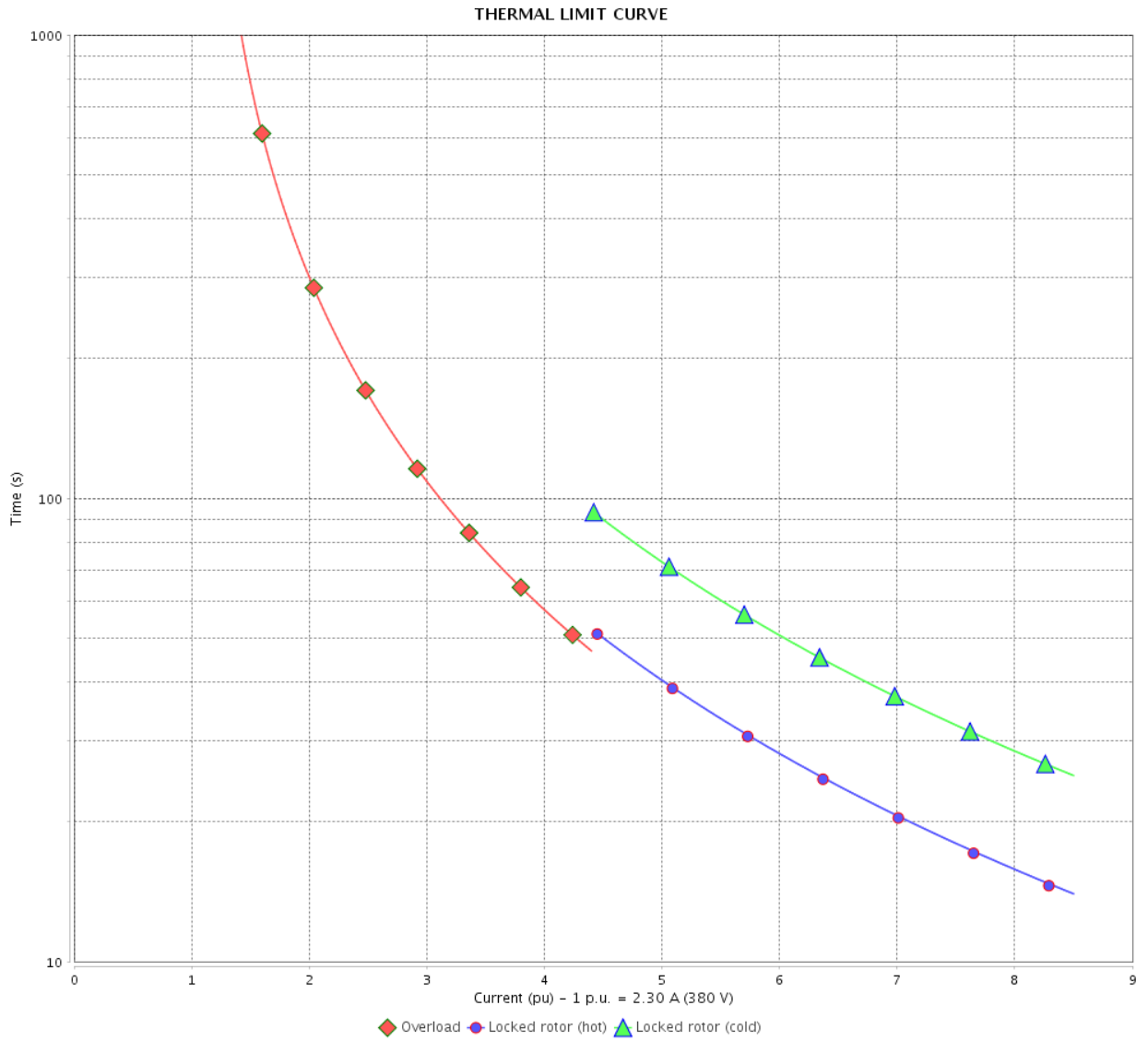
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Performance : 400 V 50 Hz 2P IE3

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

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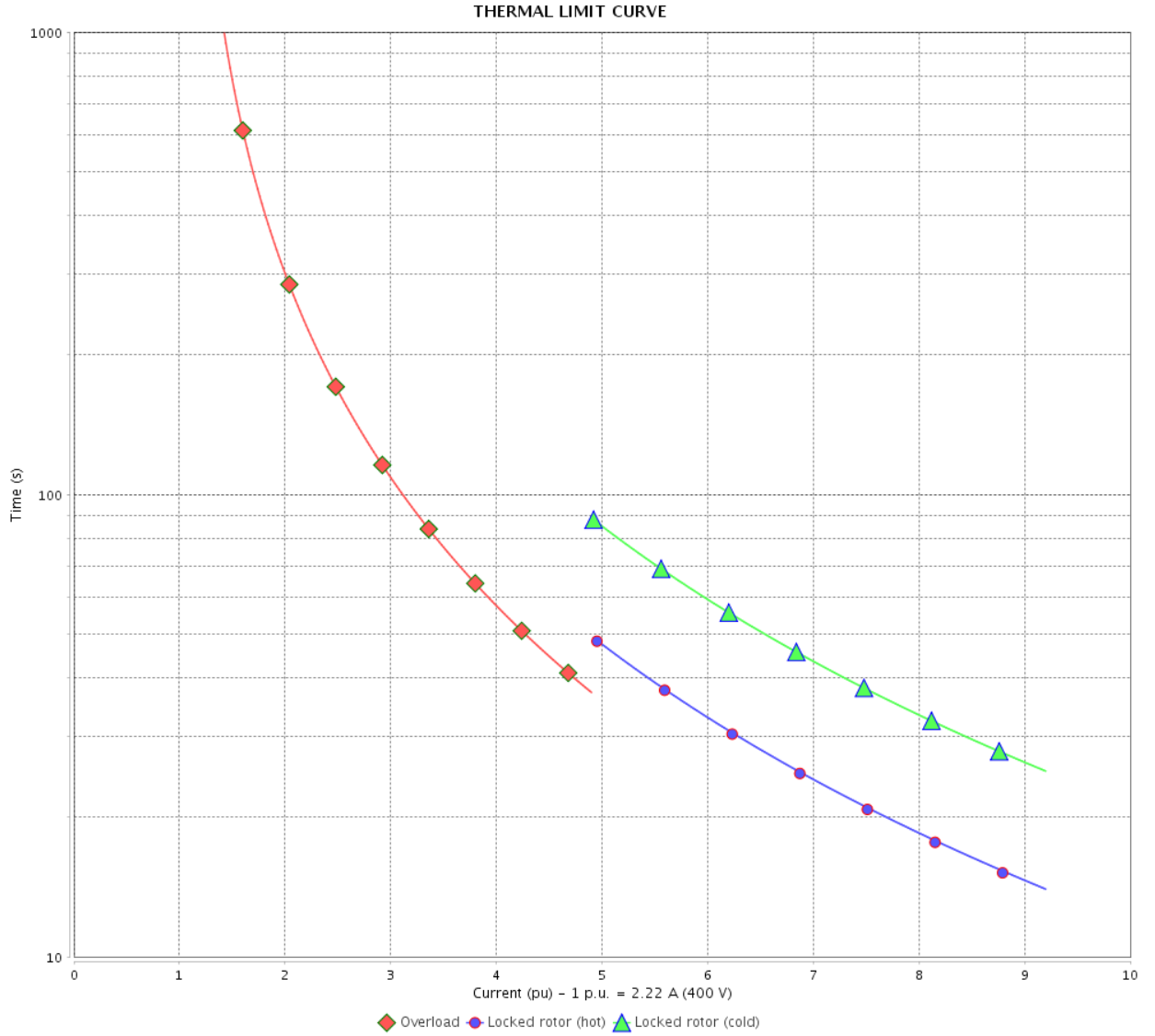
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Rated torque	: 2.71 ft.lb	Insulation class	: F
Locked rotor torque	: 450 %	Service factor	: 1.25
Breakdown torque	: 459 %	Temperature rise	: 80 K
Rated speed	: 2905 rpm	Design	: B

Heating constant

Cooling constant

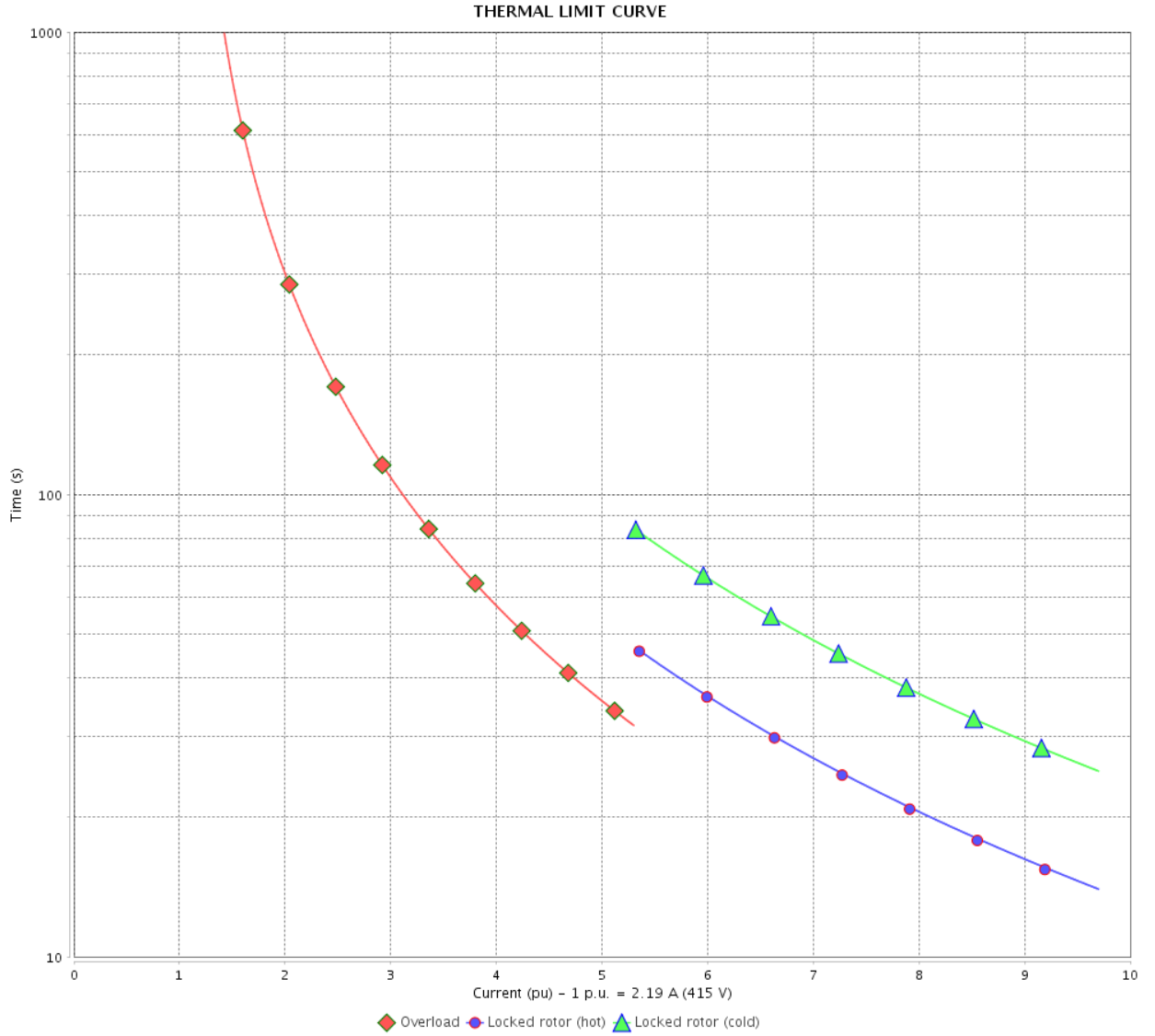
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Performance : 380 V 50 Hz 2P IE2

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

Heating constant

Cooling constant

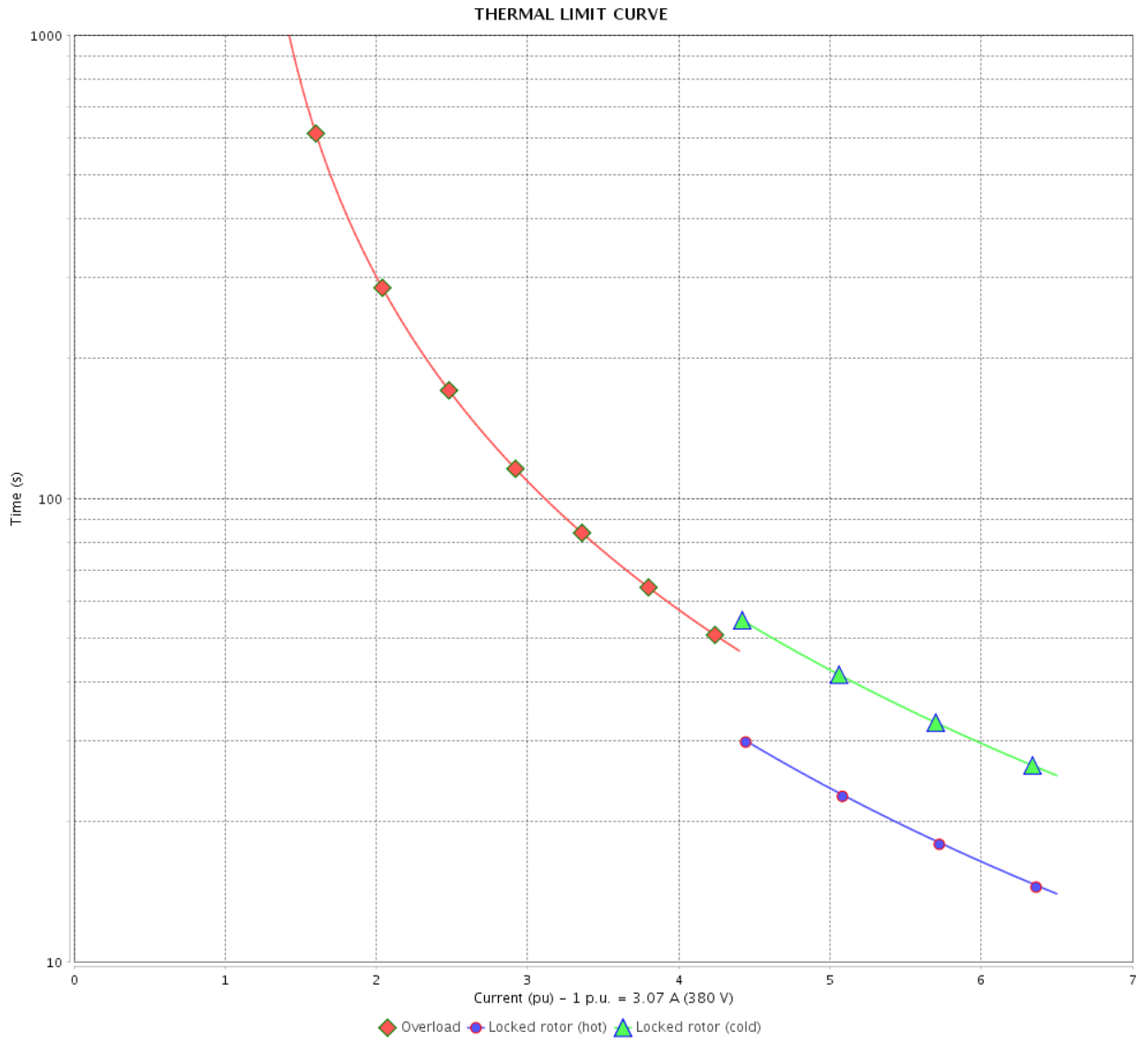
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THERMAL LIMIT CURVE



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase
Product code : 11606710
Catalog # : 00236ET3E145TC-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

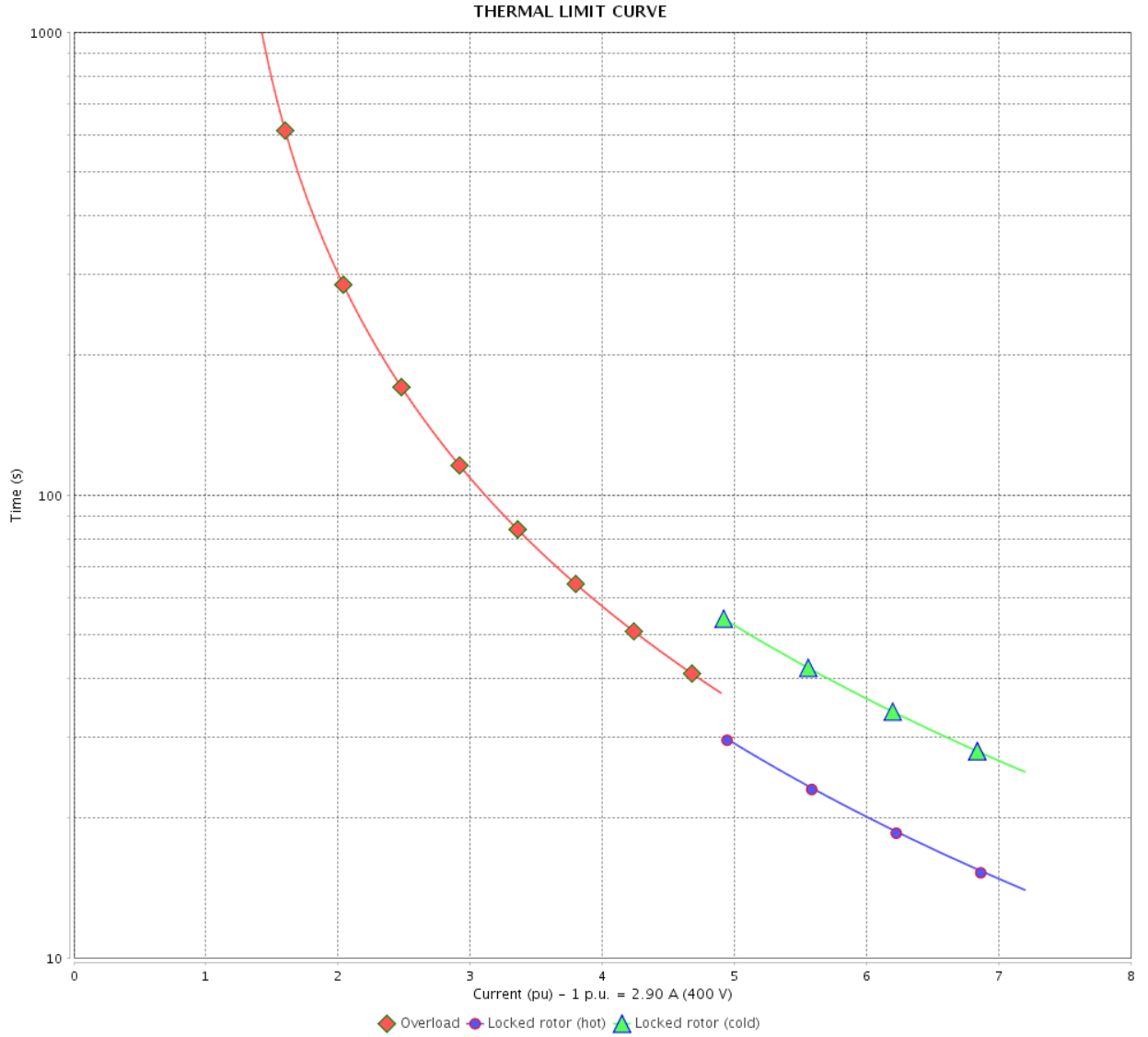
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by				
Date	13/04/2022		Page 26 / 36	Revision

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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Performed by		Page 27 / 36		Revision
Checked by				
Date				

THERMAL LIMIT CURVE



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase
Product code : 11606710
Catalog # : 00236ET3E145TC-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

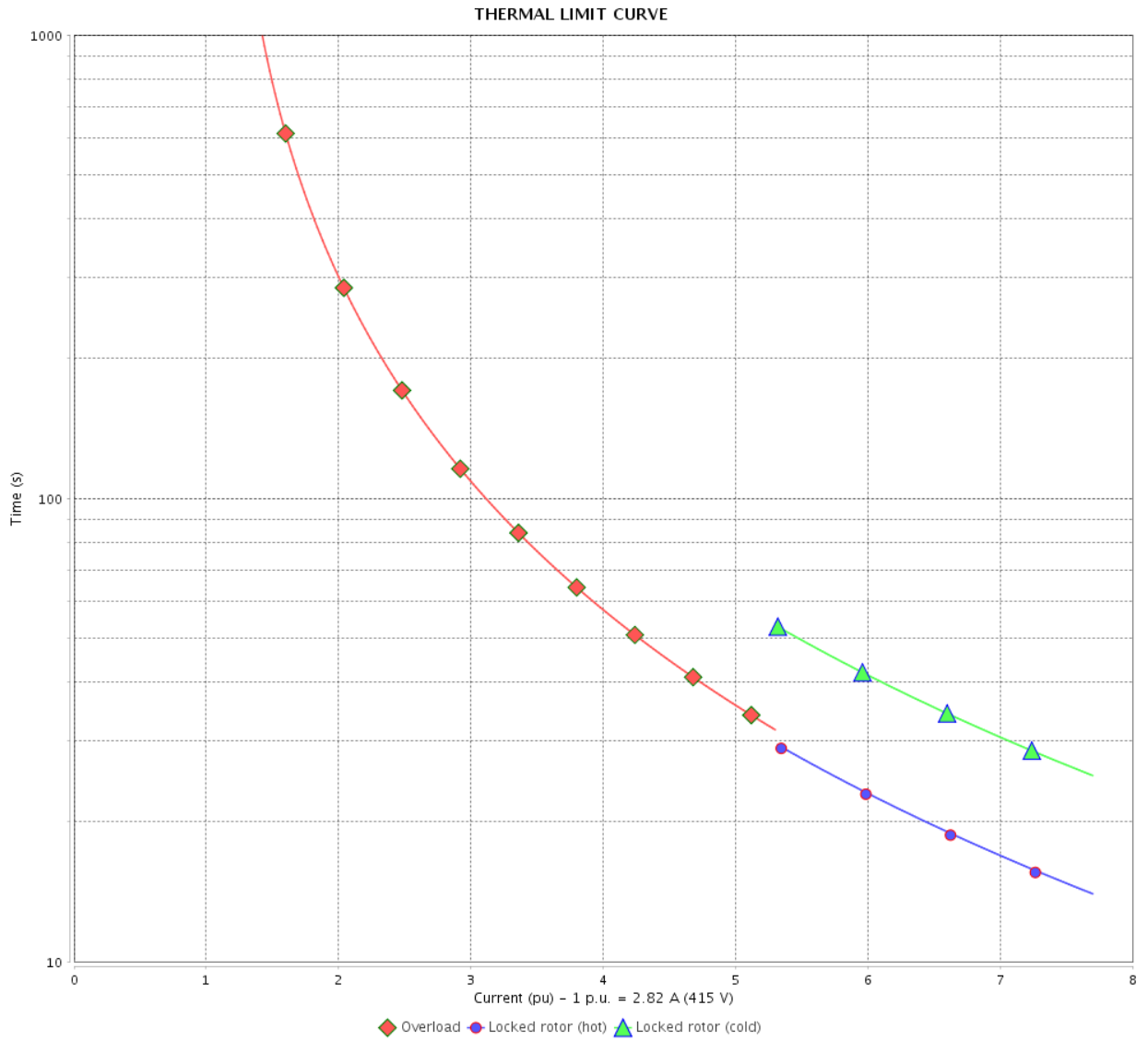
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	13/04/2022		28 / 36	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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Performed by		Page		Revision
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Date		13/04/2022		

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



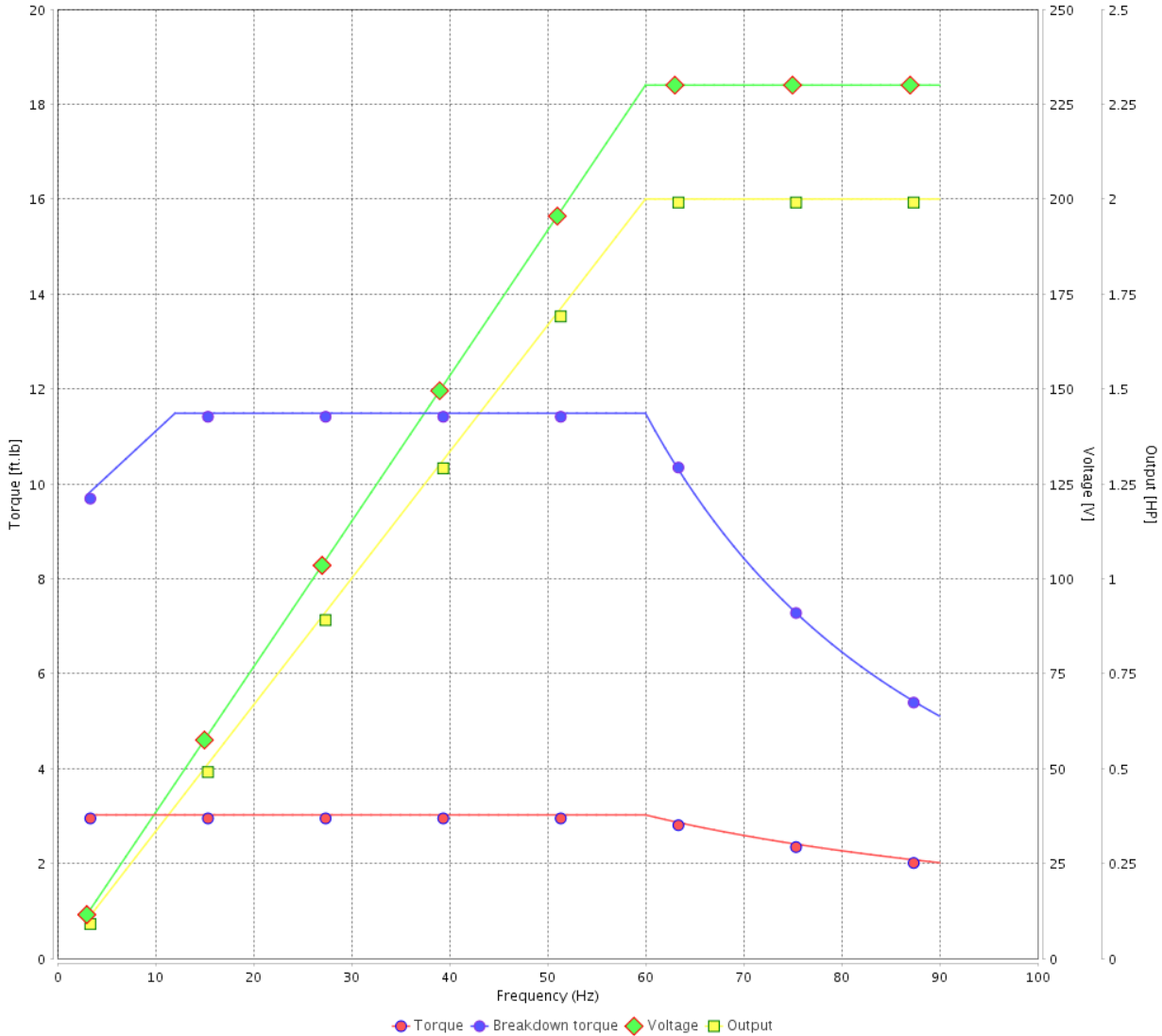
Customer : _____

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11606710

Catalog # : 00236ET3E145TC-W22

VFD OPERATION CURVE



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	Revision
Checked by				
Date				

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

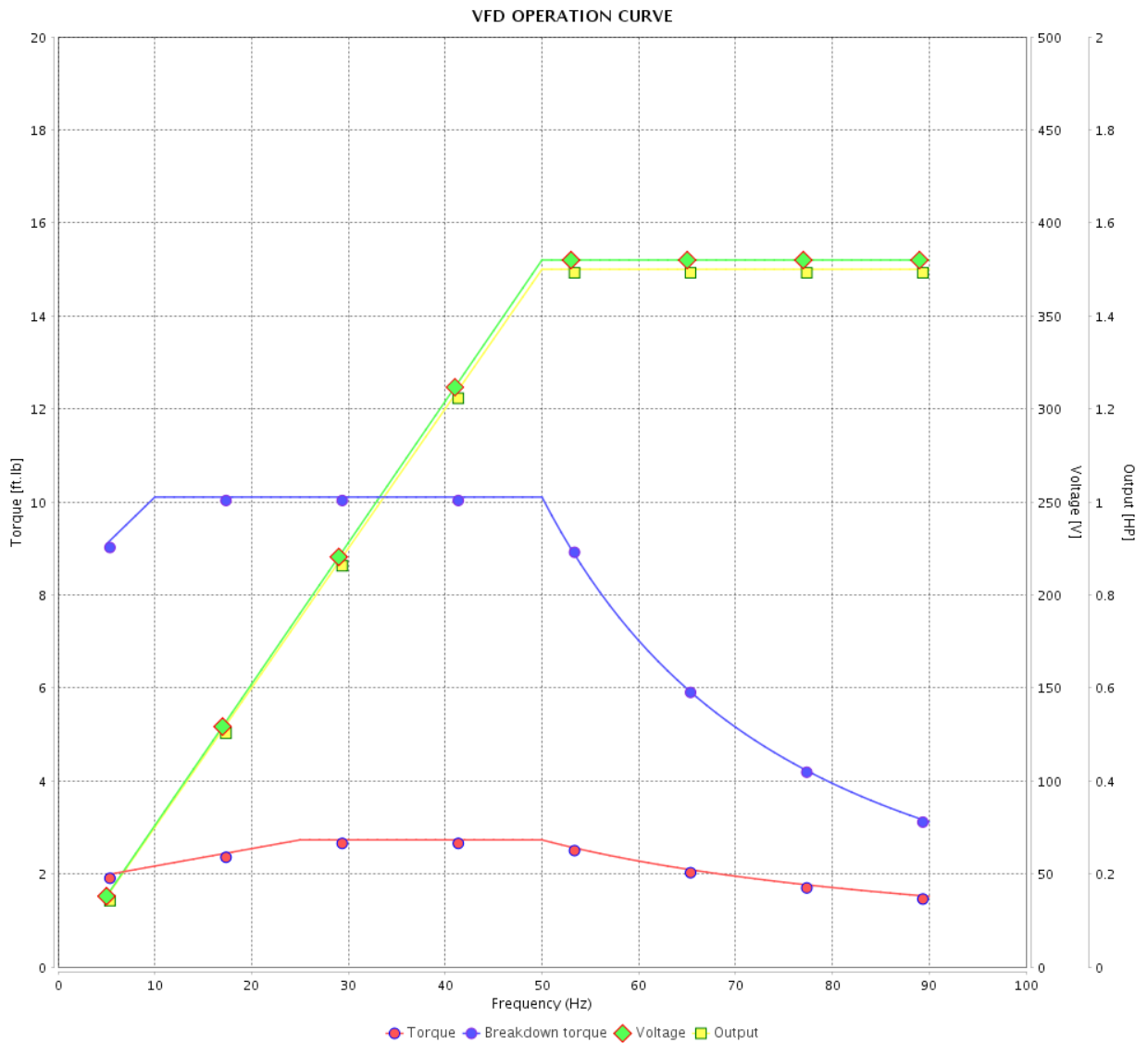


Customer :

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Product code : 11606710

Catalog # : 00236ET3E145TC-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



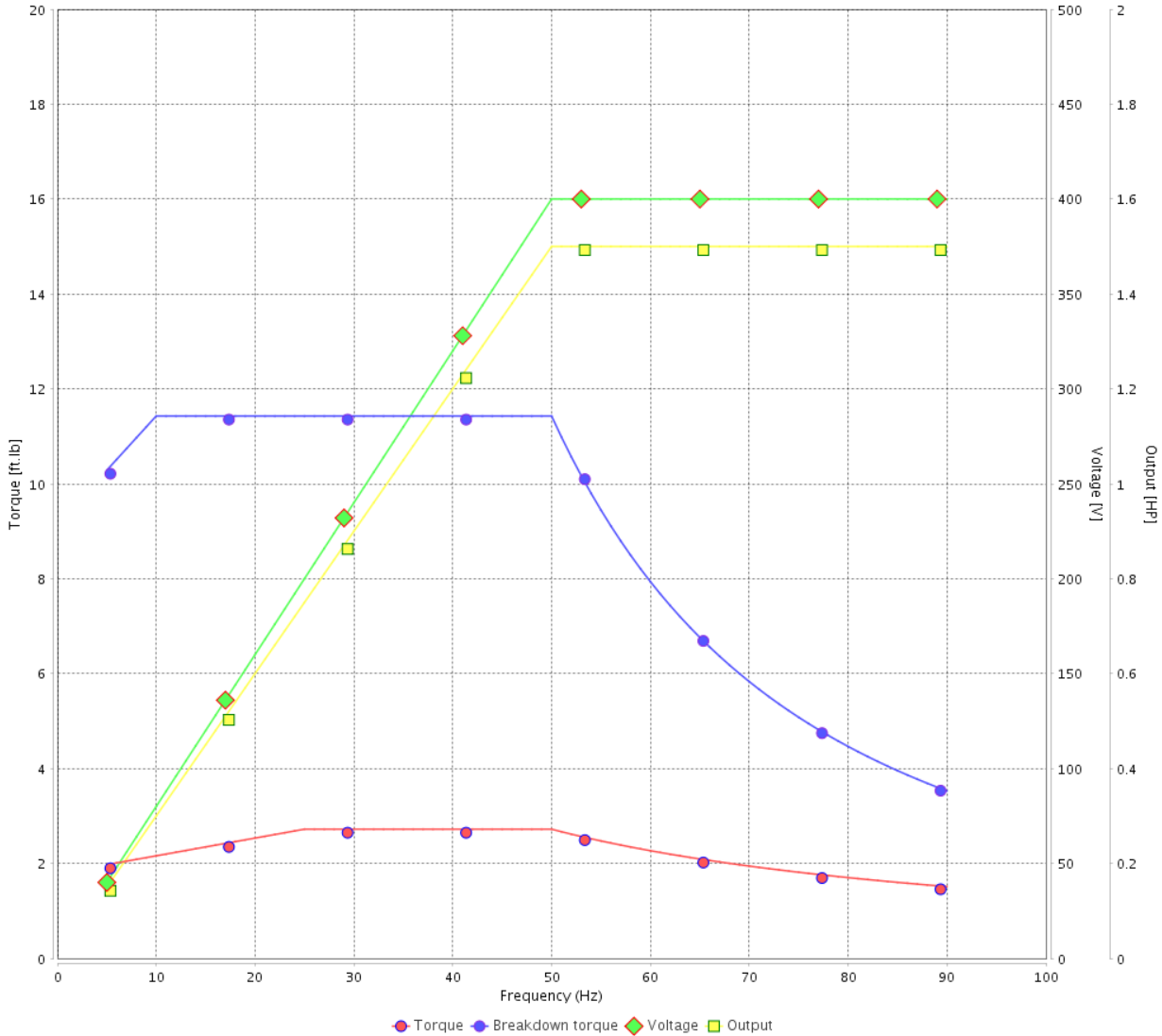
Customer : _____

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11606710

Catalog # : 00236ET3E145TC-W22

VFD OPERATION CURVE



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

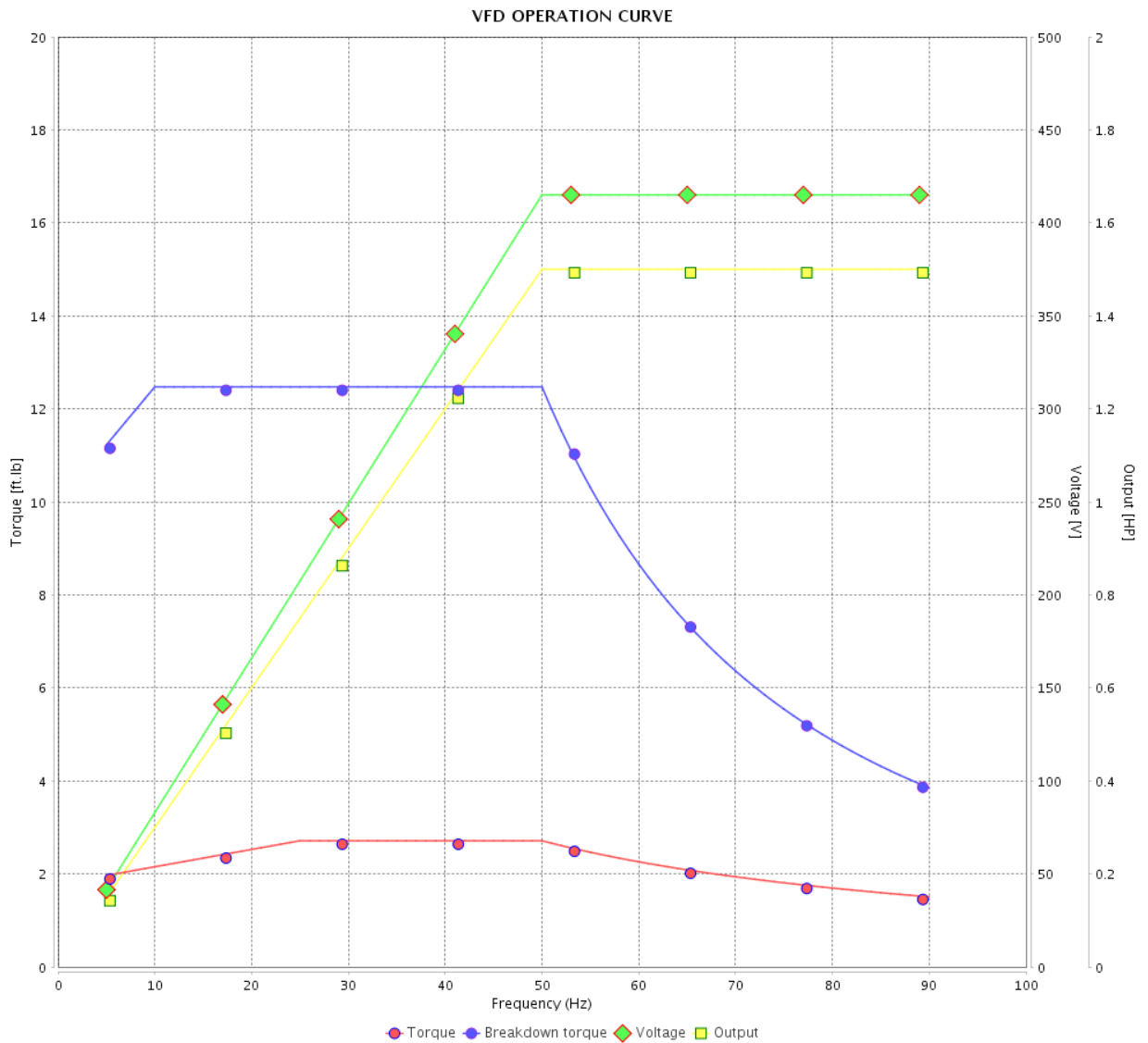


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11606710

Catalog # : 00236ET3E145TC-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

Rev.	Changes Summary	Performed	Checked	Date
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



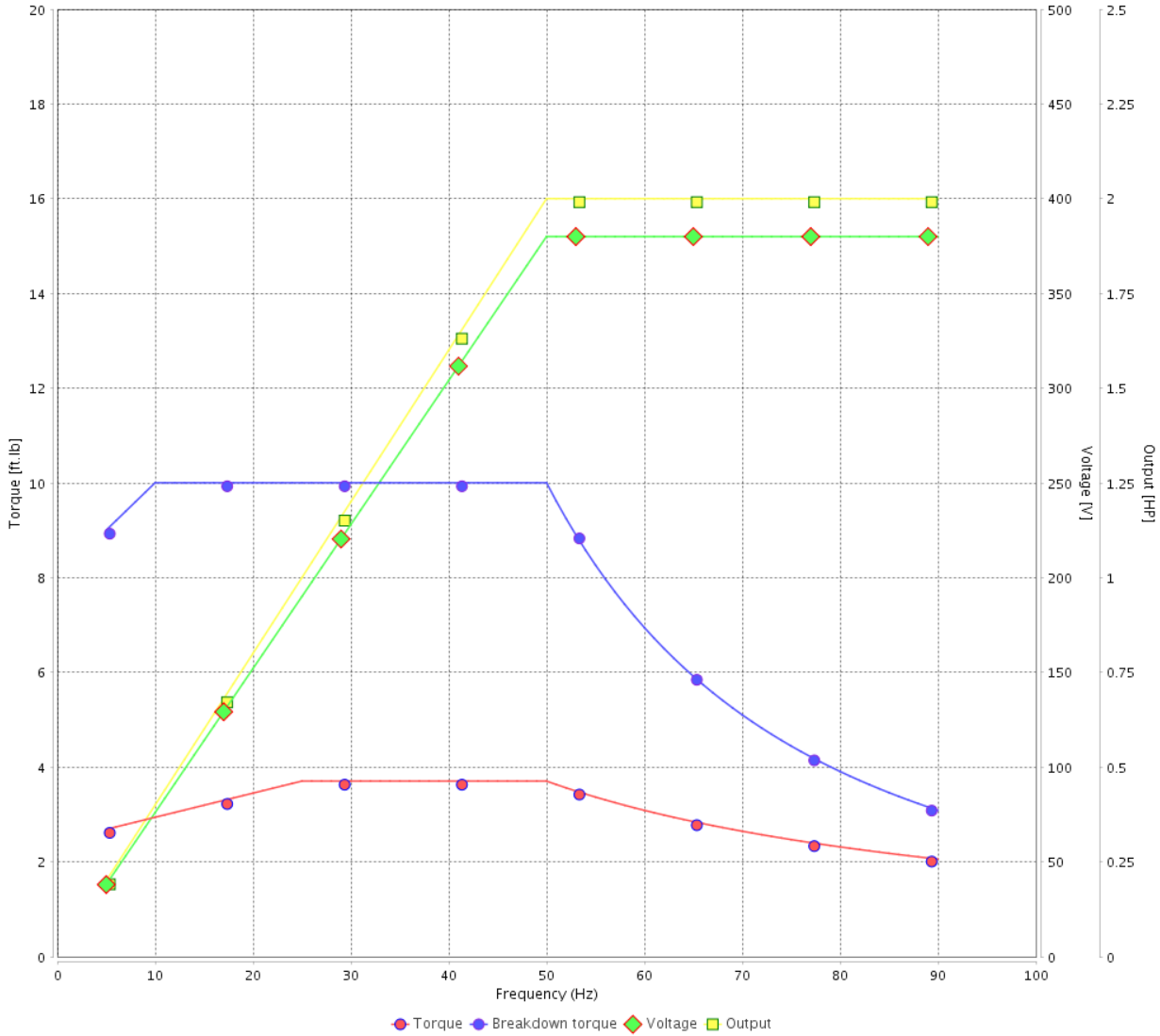
Customer : _____

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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

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Date	13/04/2022			

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

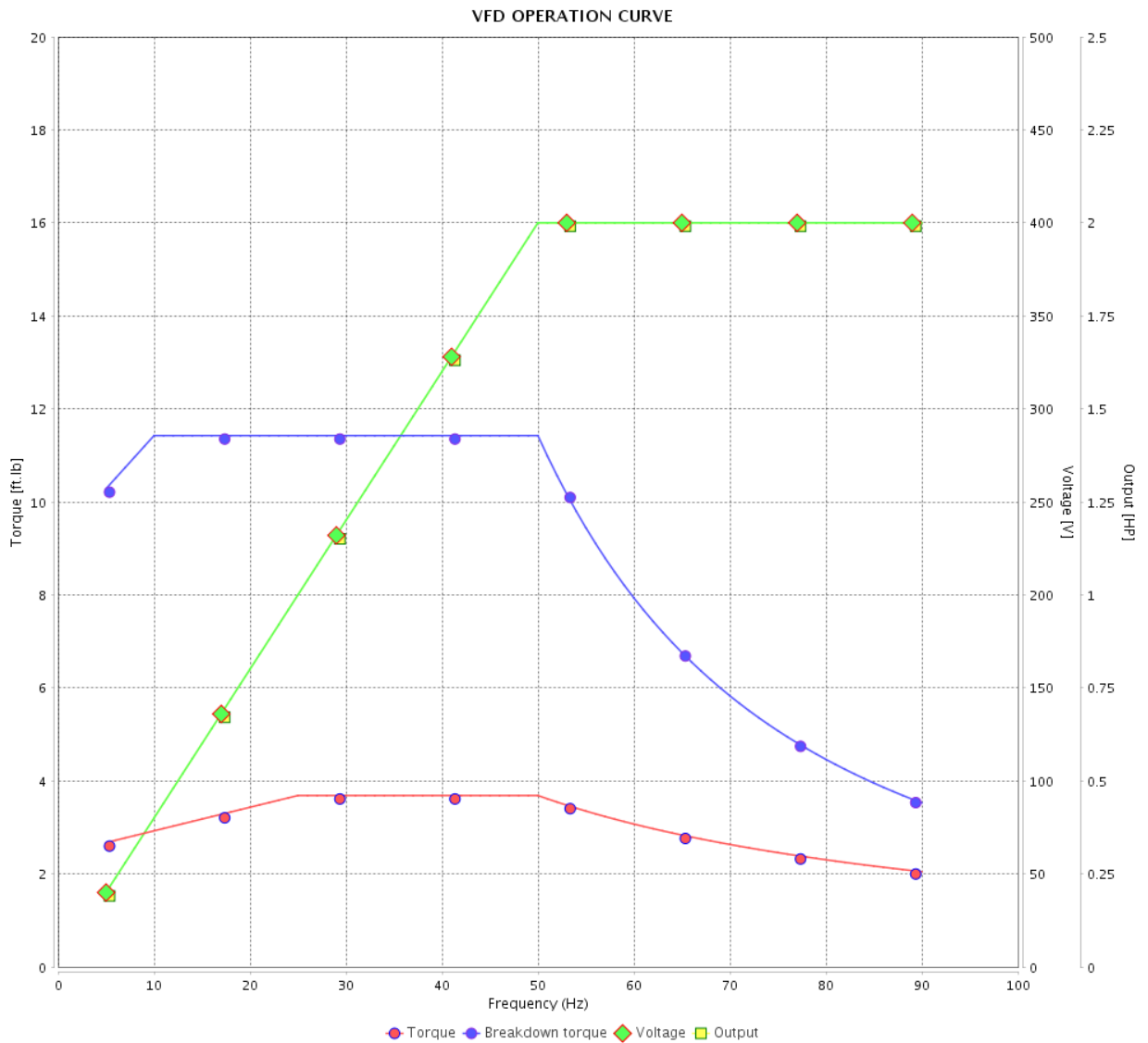


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 LRC : 7.2
 Rated torque : 3.69 ft.lb
 Locked rotor torque : 300 %
 Breakdown torque : 310 %
 Rated speed : 2850 rpm

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

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

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



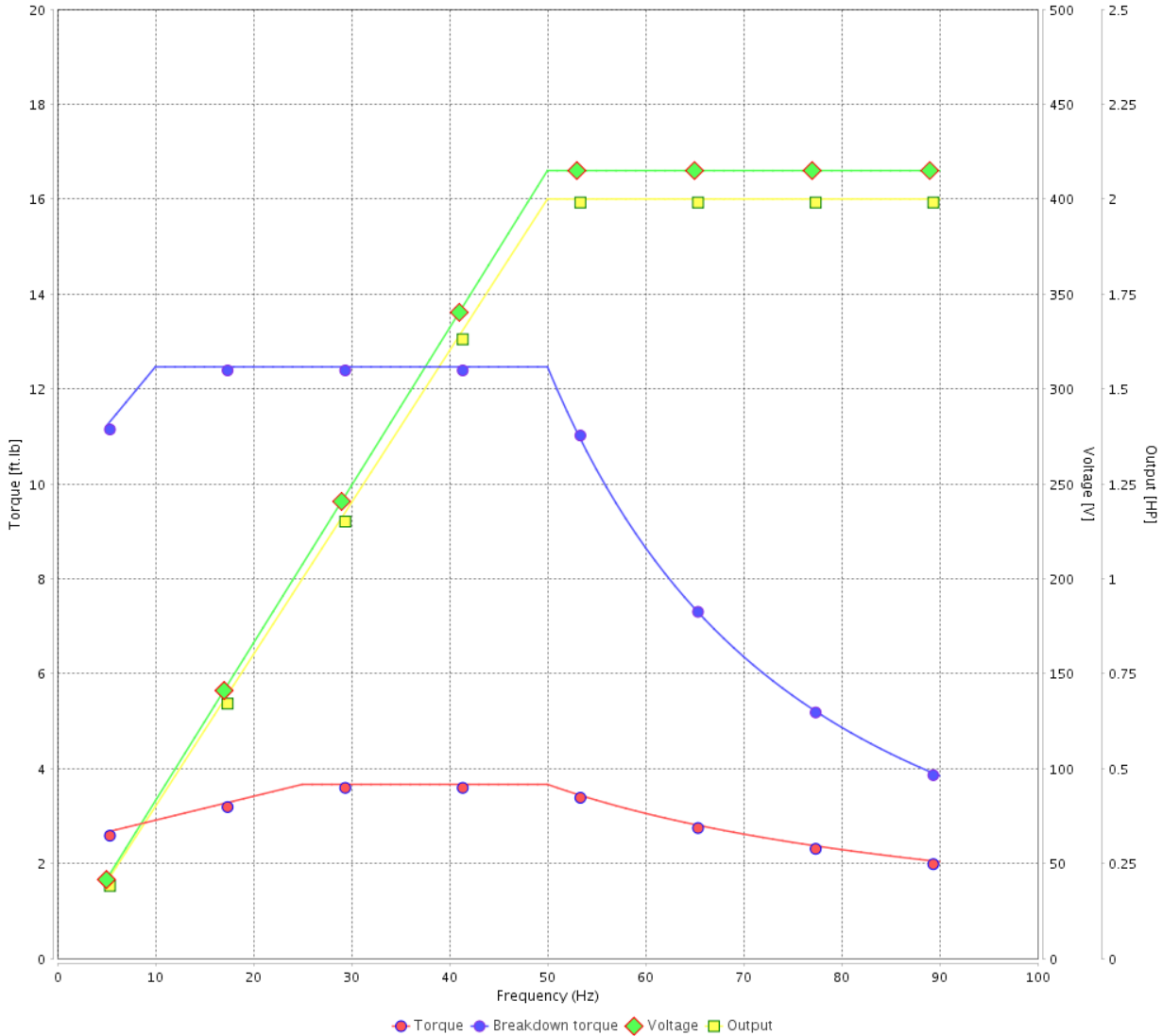
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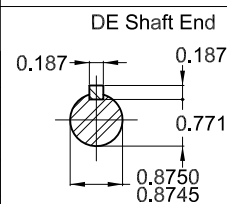
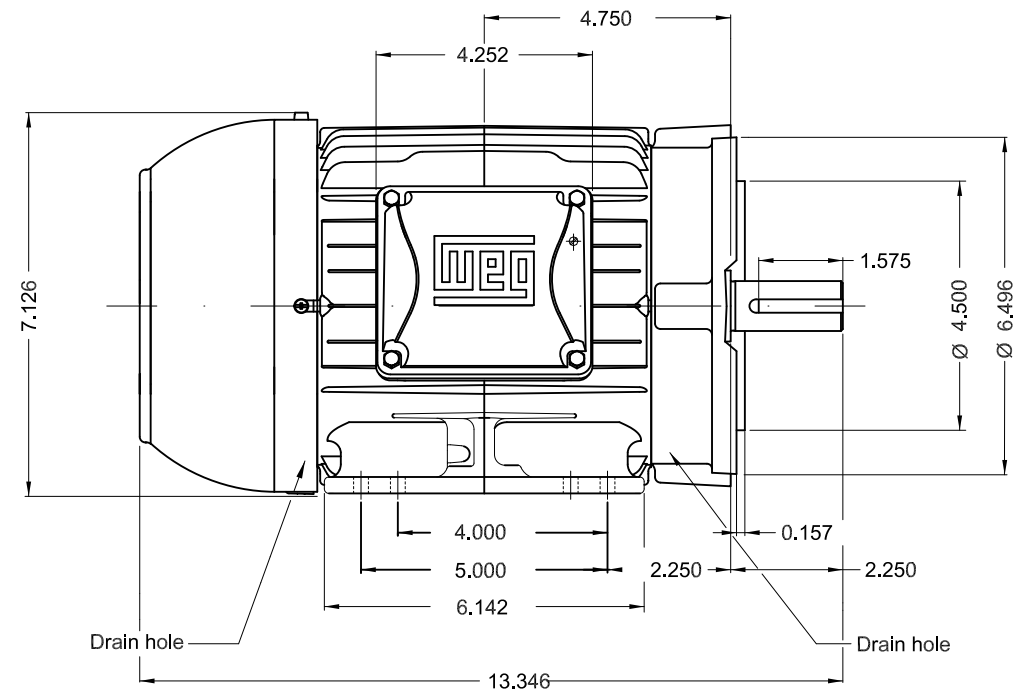
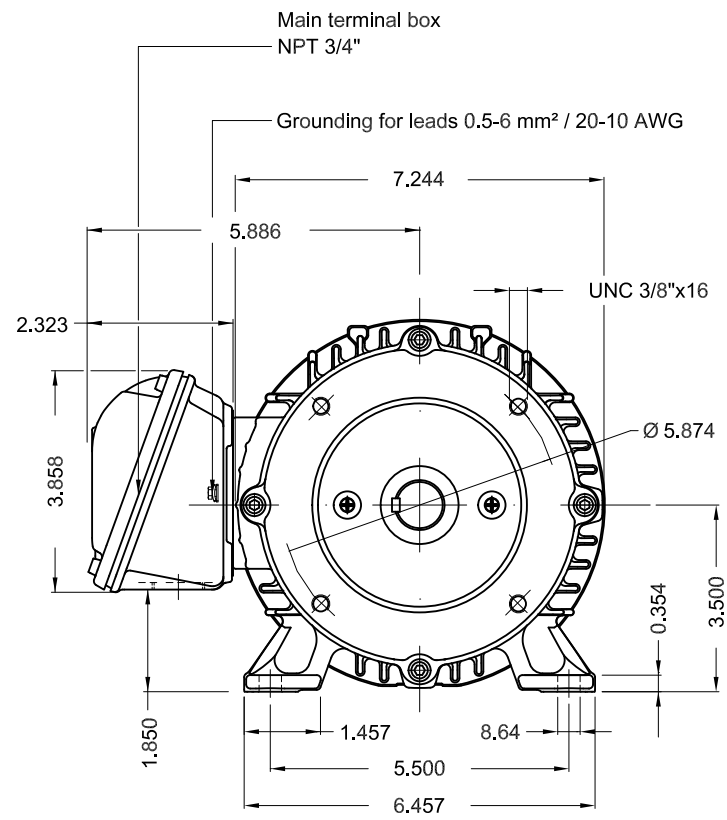


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Bearing cap
Color RAL 5009
Painting plan 207A
Mounting NEMA F-1
Mounting B34R(D)

2 HP 02 Poles 60 Hz A

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

PREVIEW
WDD



MADE IN MEXICO
11606710



W22

MODEL 00236ET3E145TC-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. 143/5TC 1000m.a.s.l. IP55 TEFC 53lb

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)

