

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer								
Product line		: NEMA Premium Efficiency Three-Phase			Product code :		11642183	
					Catalog # :		00236ET3E145JM-W22	
Frame : 143/5JM 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 : 54.4 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%	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 : 6206 ZZ	Non drive end : 6204 ZZ	Foundation loads				
Sealing		: V'Ring	: V'Ring	Max. traction		: 81 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



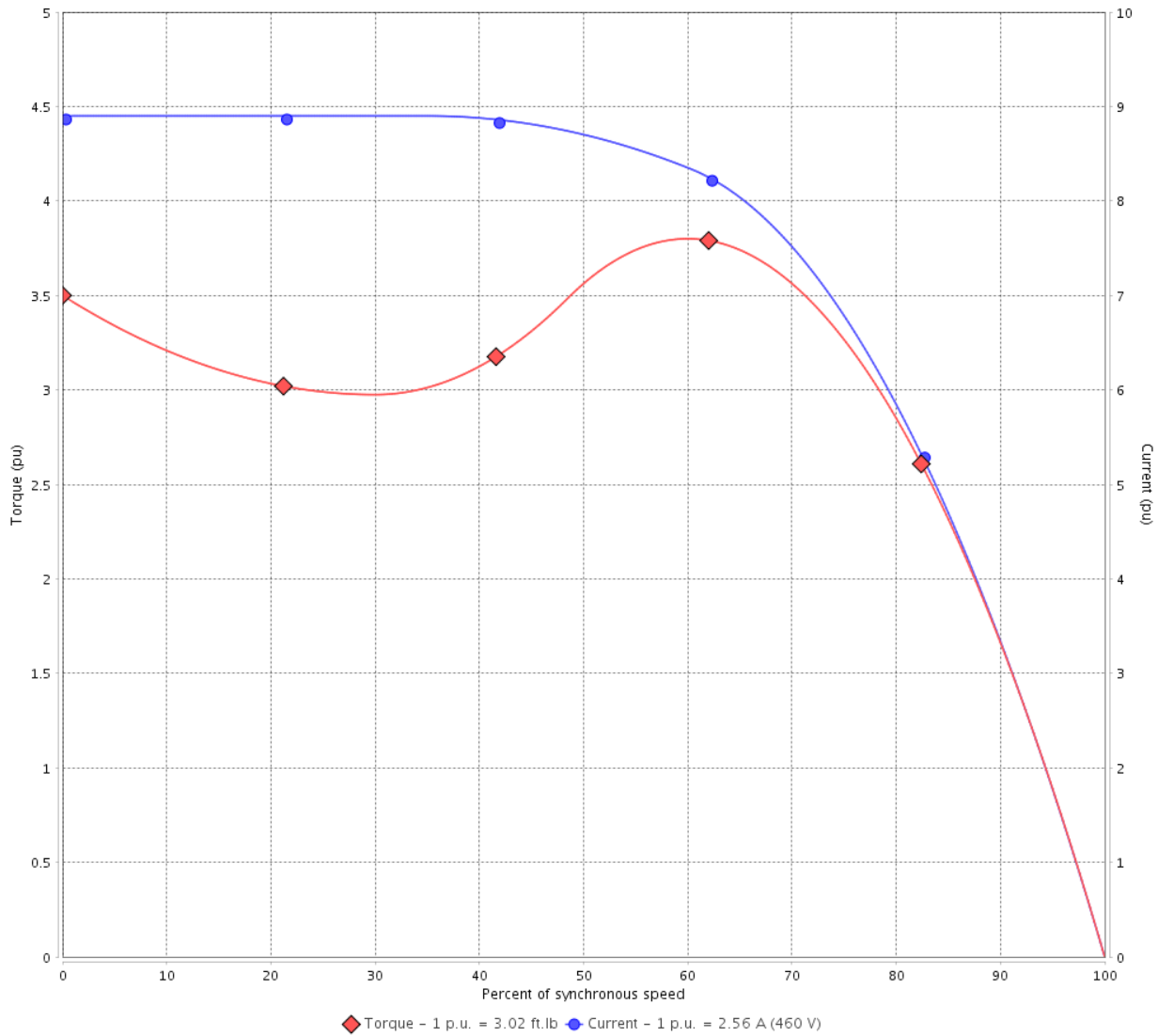
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11642183

Catalog # : 00236ET3E145JM-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



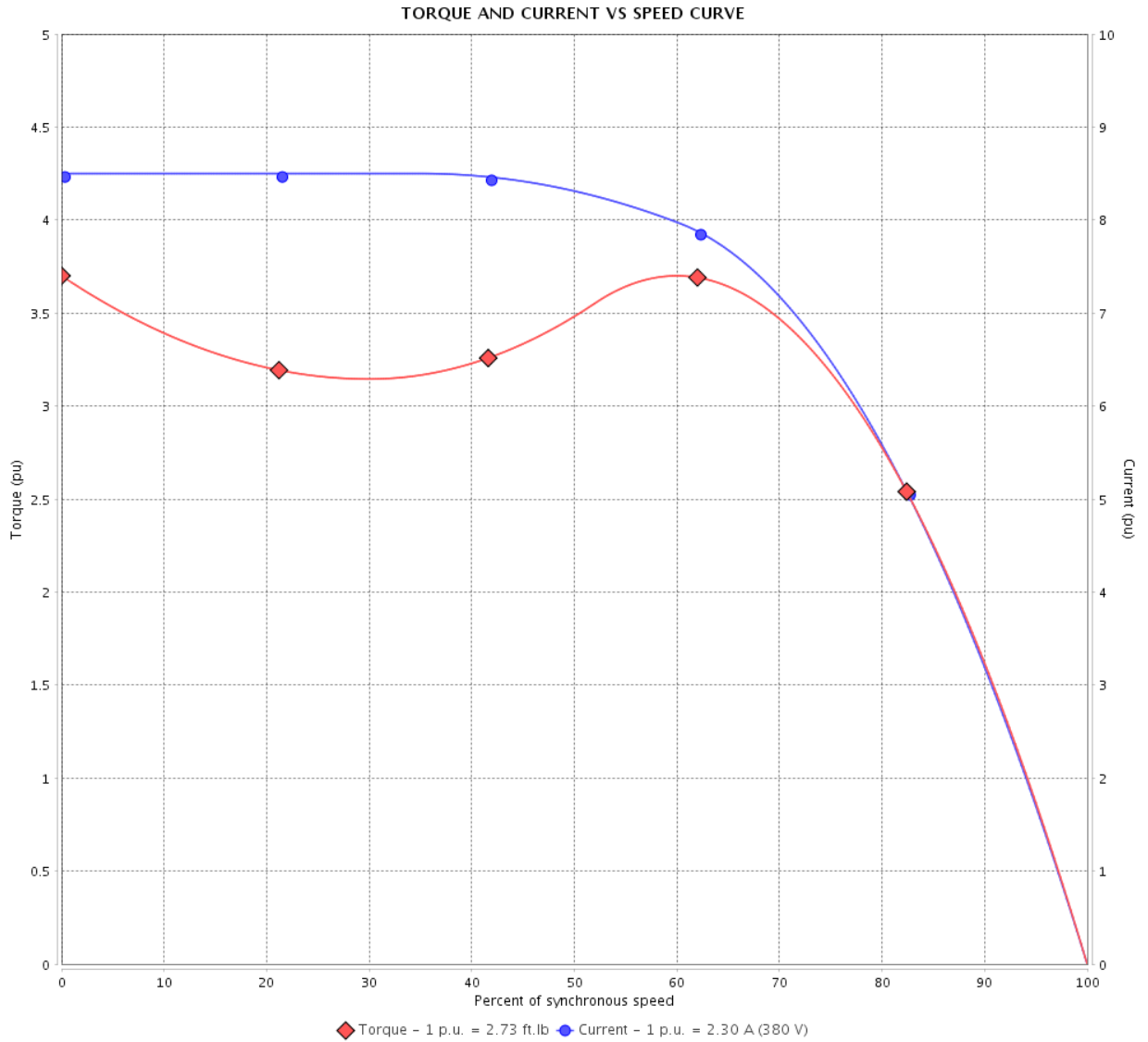
Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11642183

Catalog # : 00236ET3E145JM-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



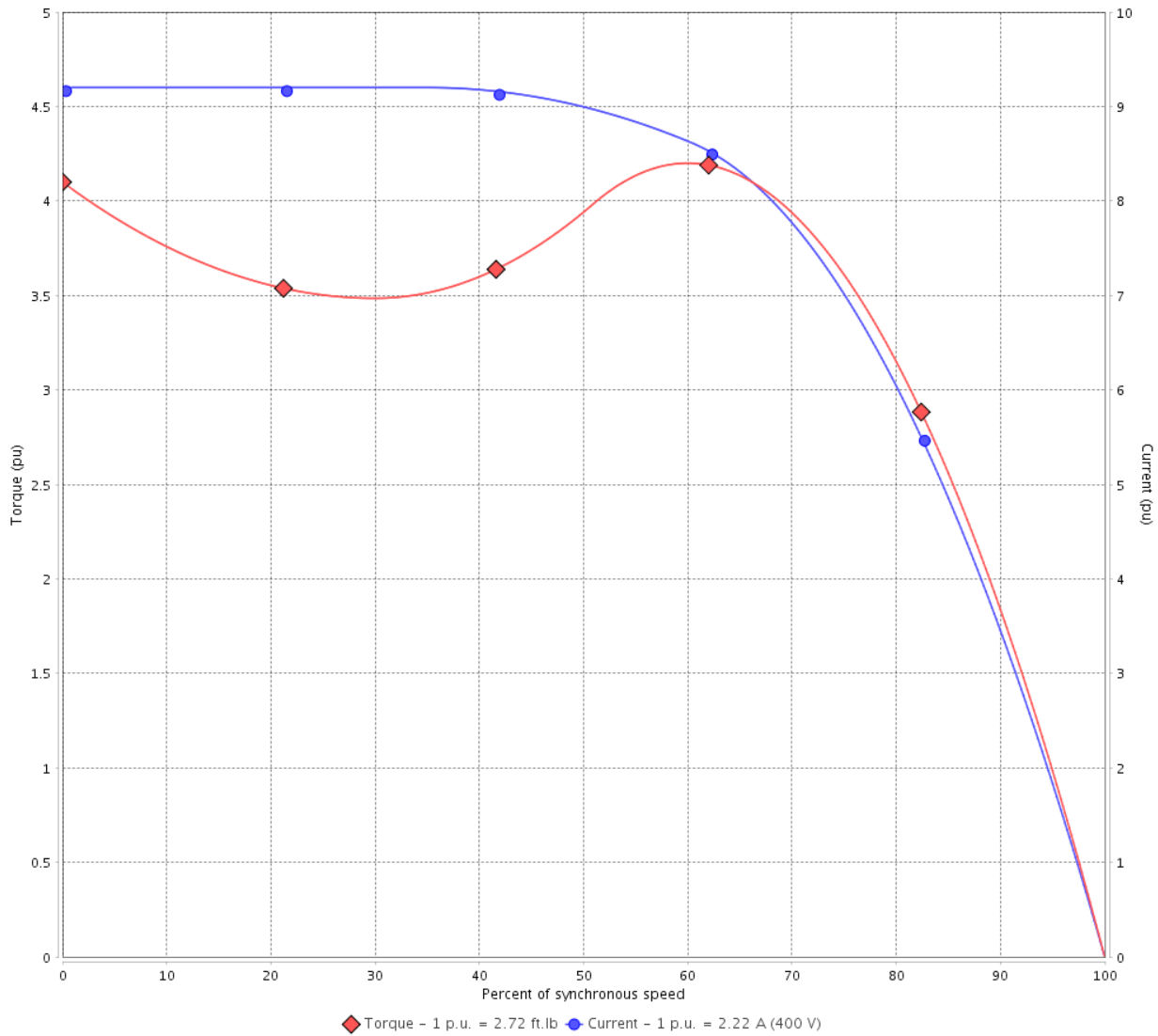
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TORQUE AND CURRENT VS SPEED CURVE



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



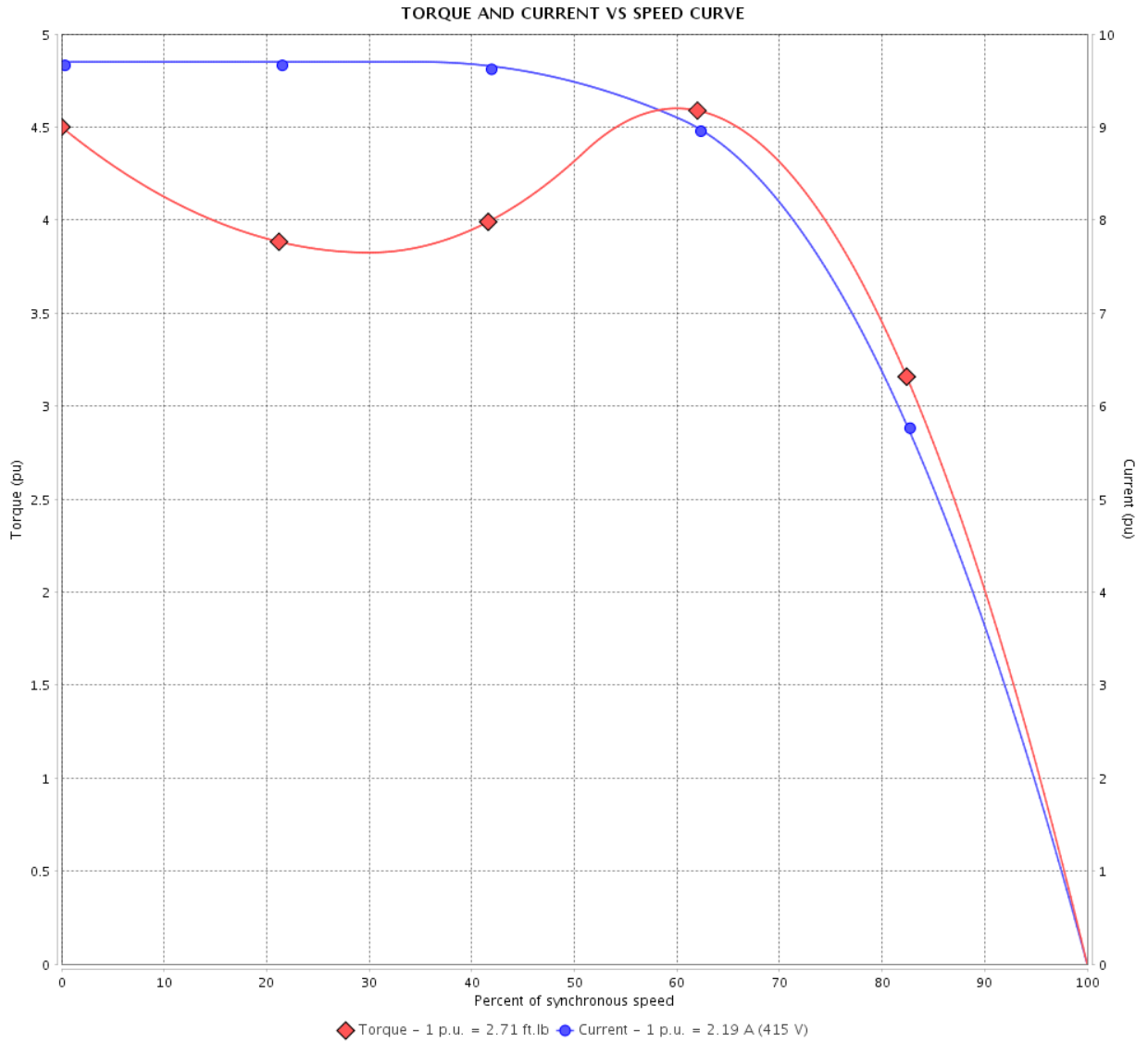
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Performance : 415 V 50 Hz 2P IE3

Rated current	: 2.19 A	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

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

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TORQUE AND CURRENT VS SPEED CURVE

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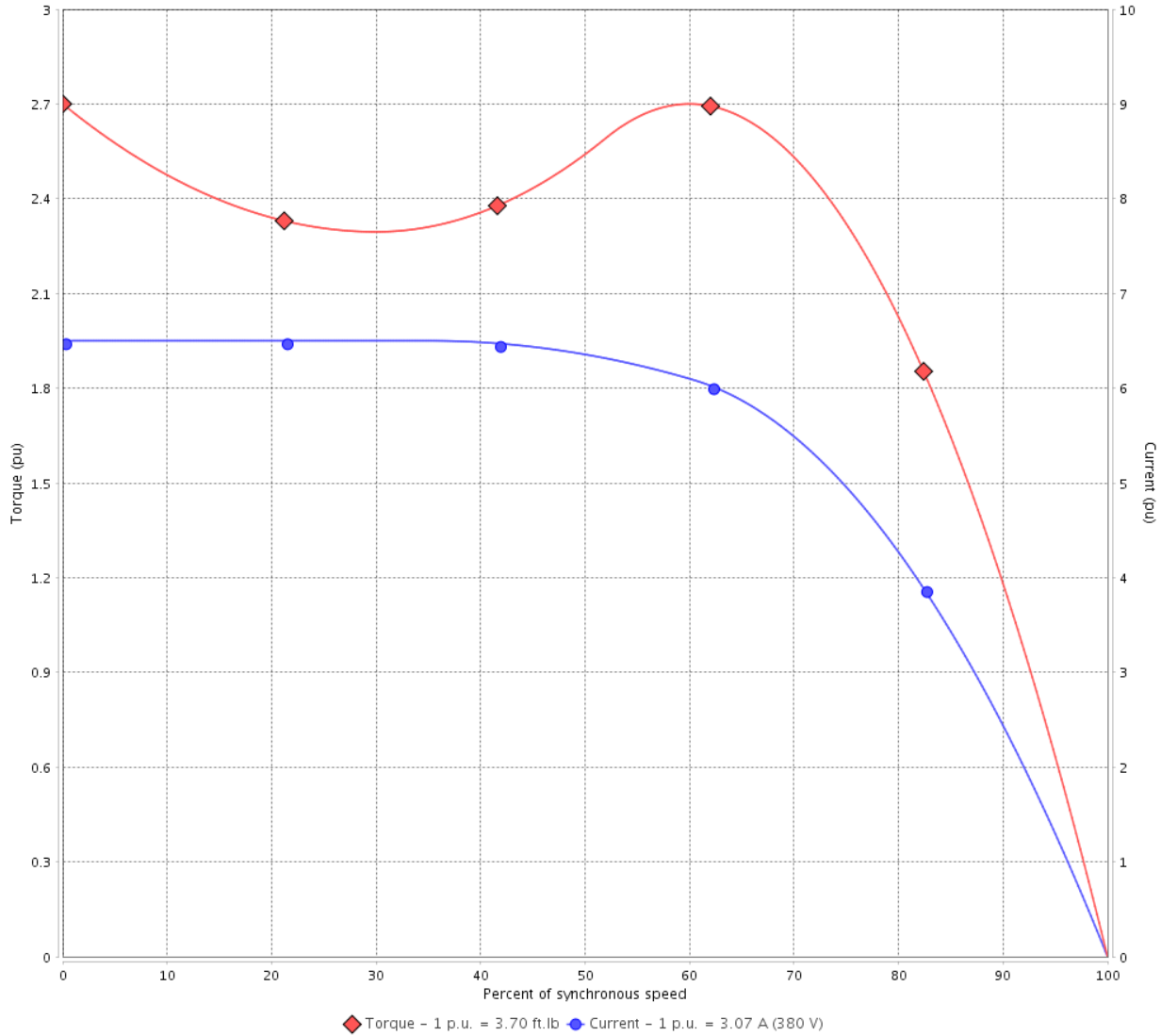
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TORQUE AND CURRENT VS SPEED CURVE



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



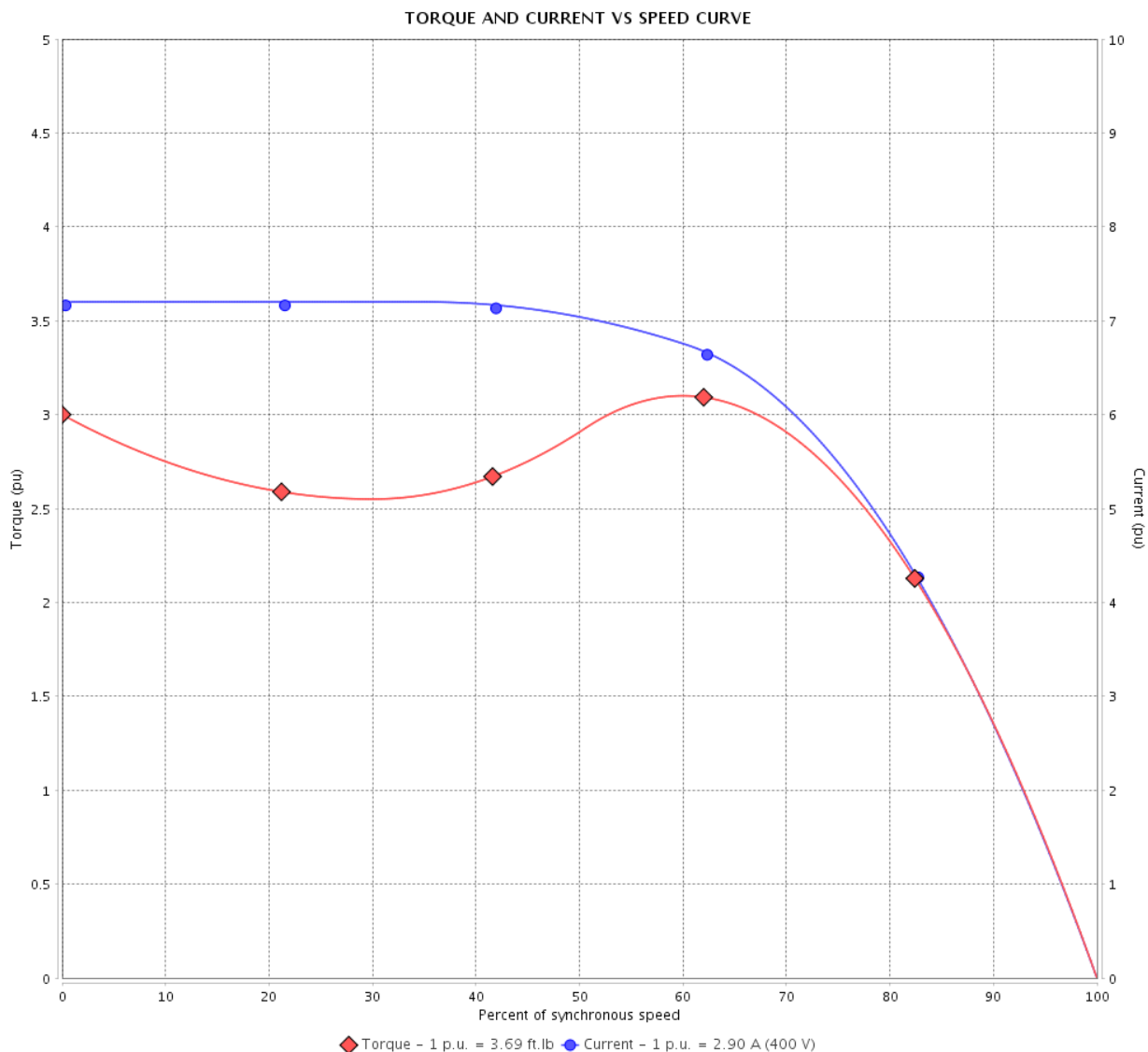
Three Phase Induction Motor - Squirrel Cage

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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

Three Phase Induction Motor - Squirrel Cage



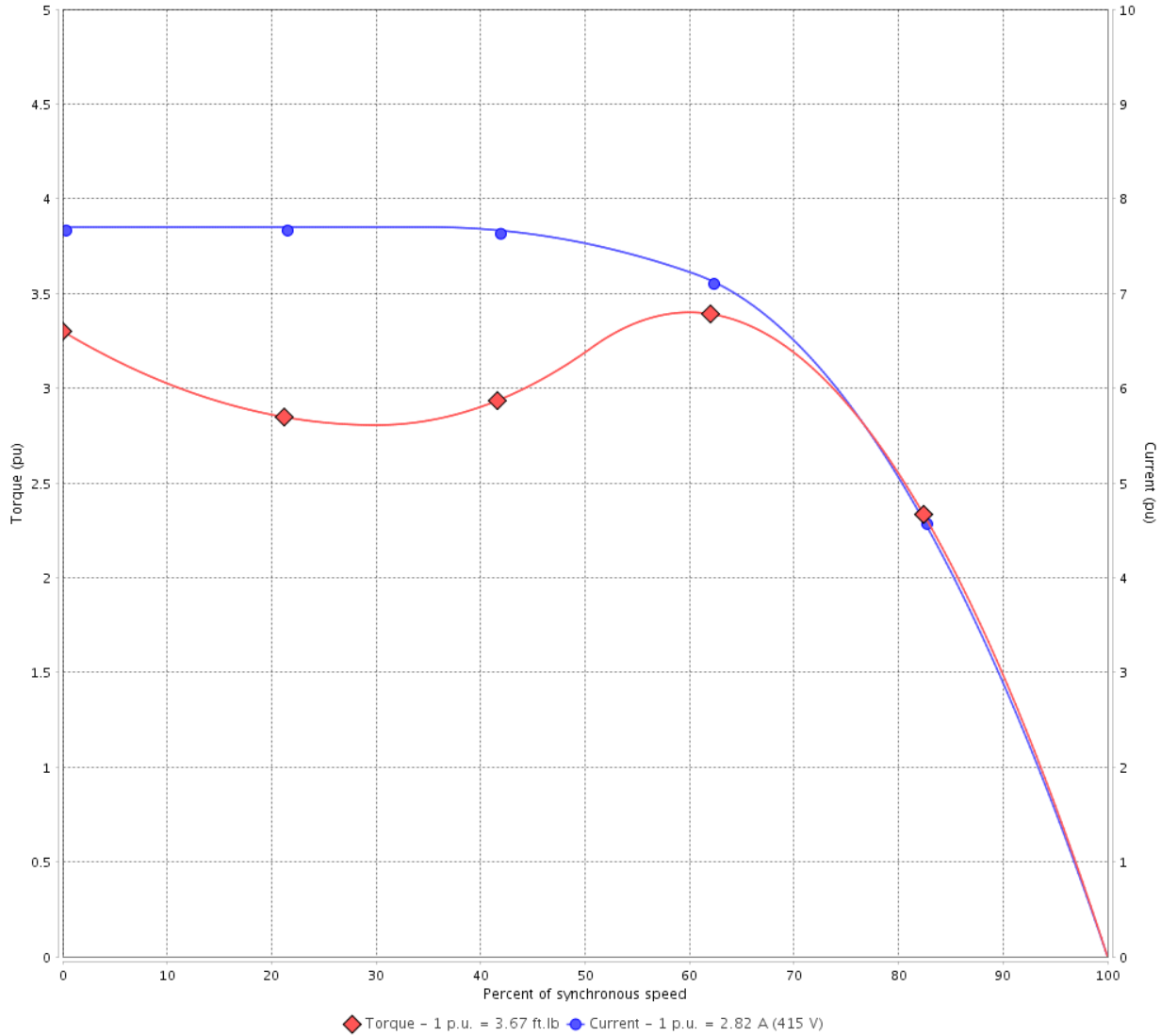
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Catalog # : 00236ET3E145JM-W22

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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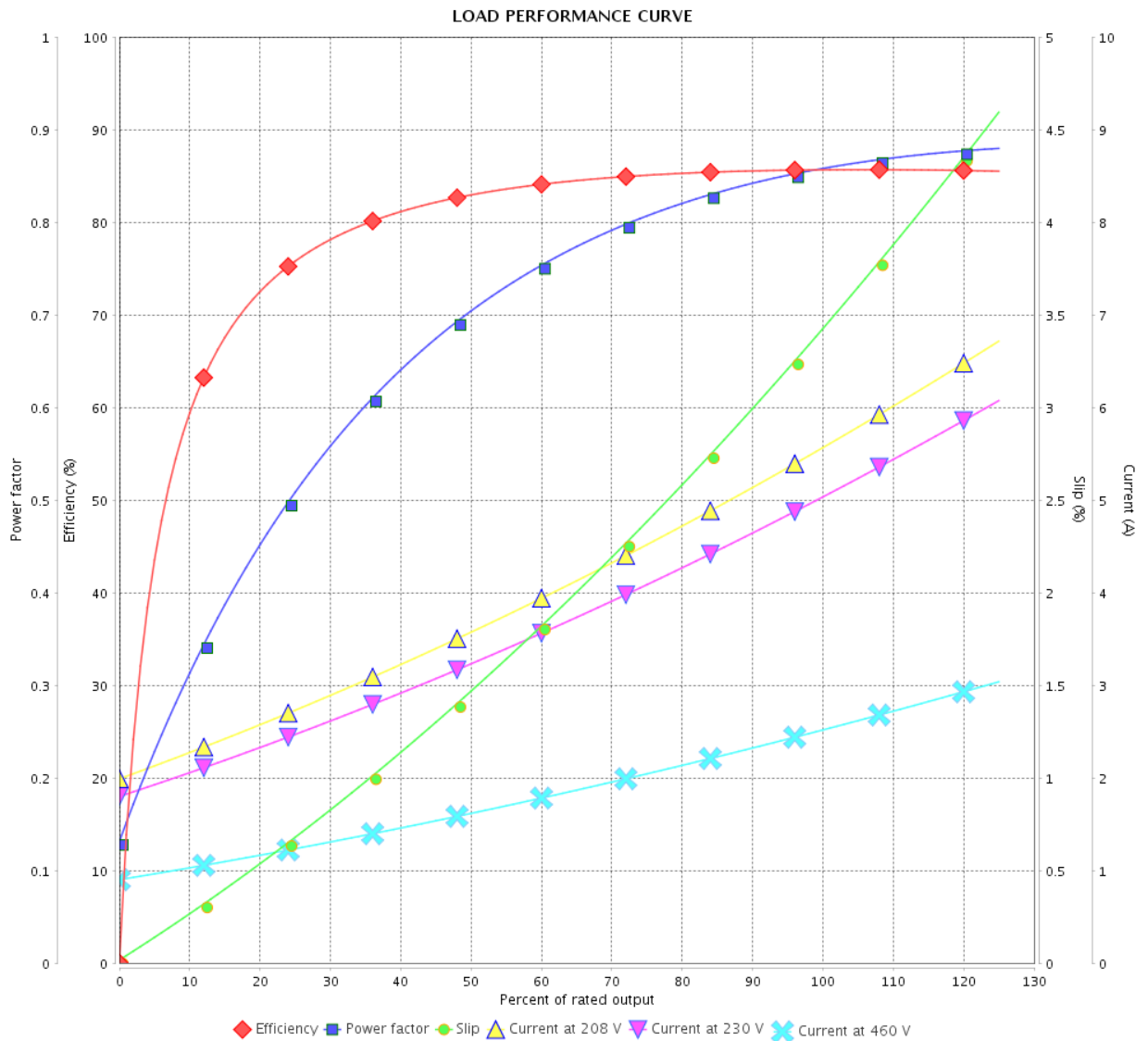


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Catalog # : 00236ET3E145JM-W22



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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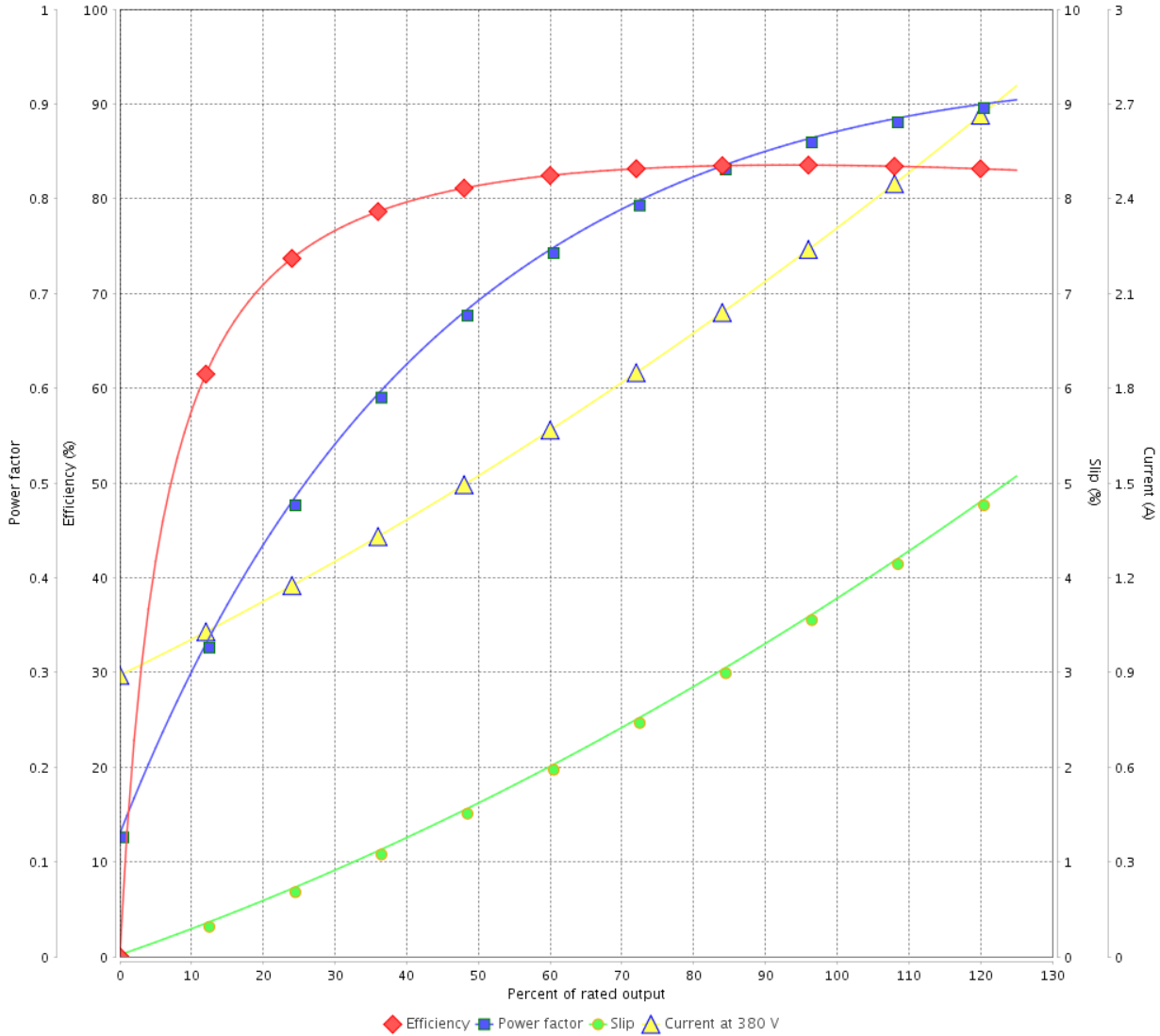
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Performance : 380 V 50 Hz 2P IE3

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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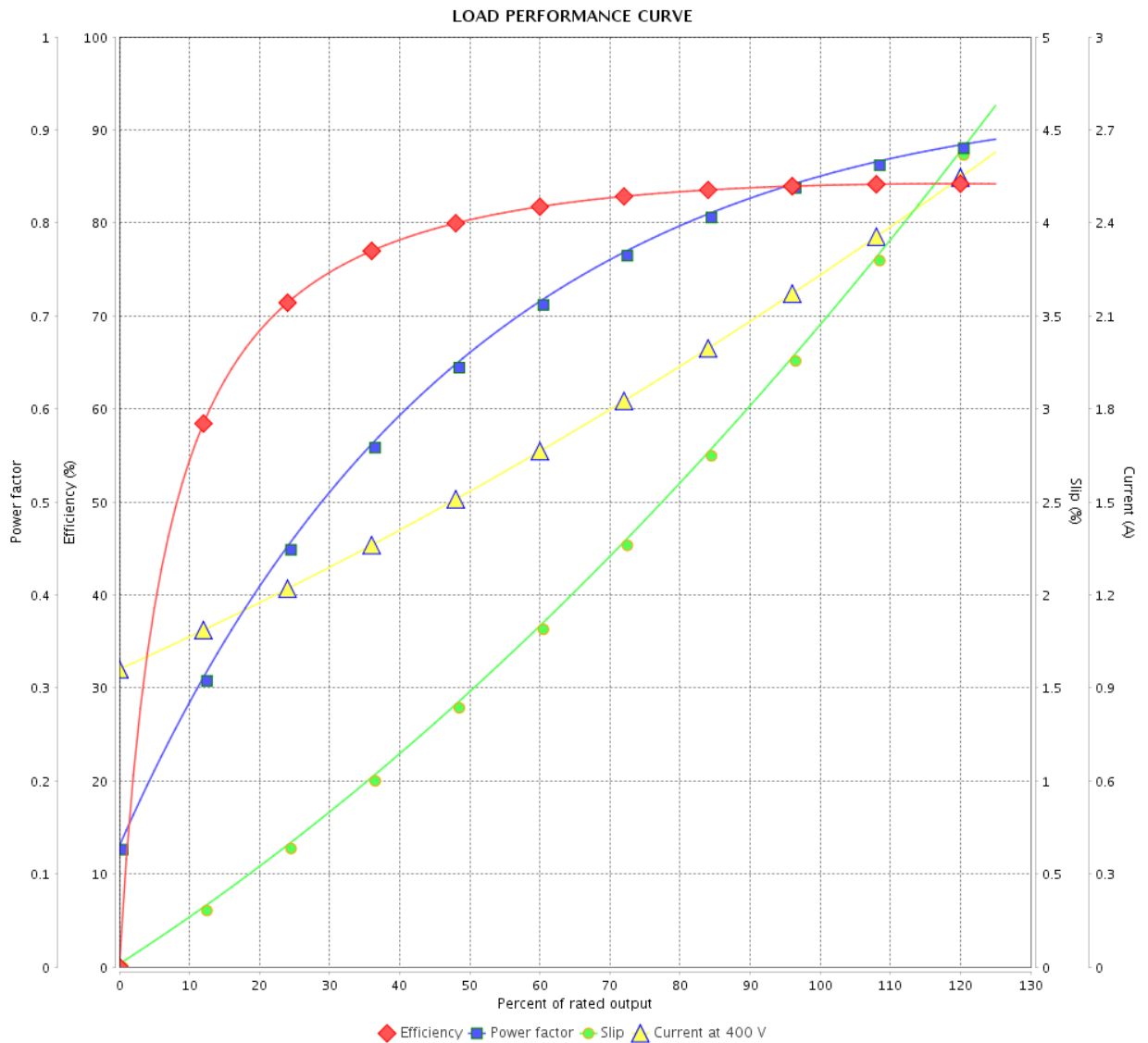


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Performance : 400 V 50 Hz 2P IE3

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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Three Phase Induction Motor - Squirrel Cage



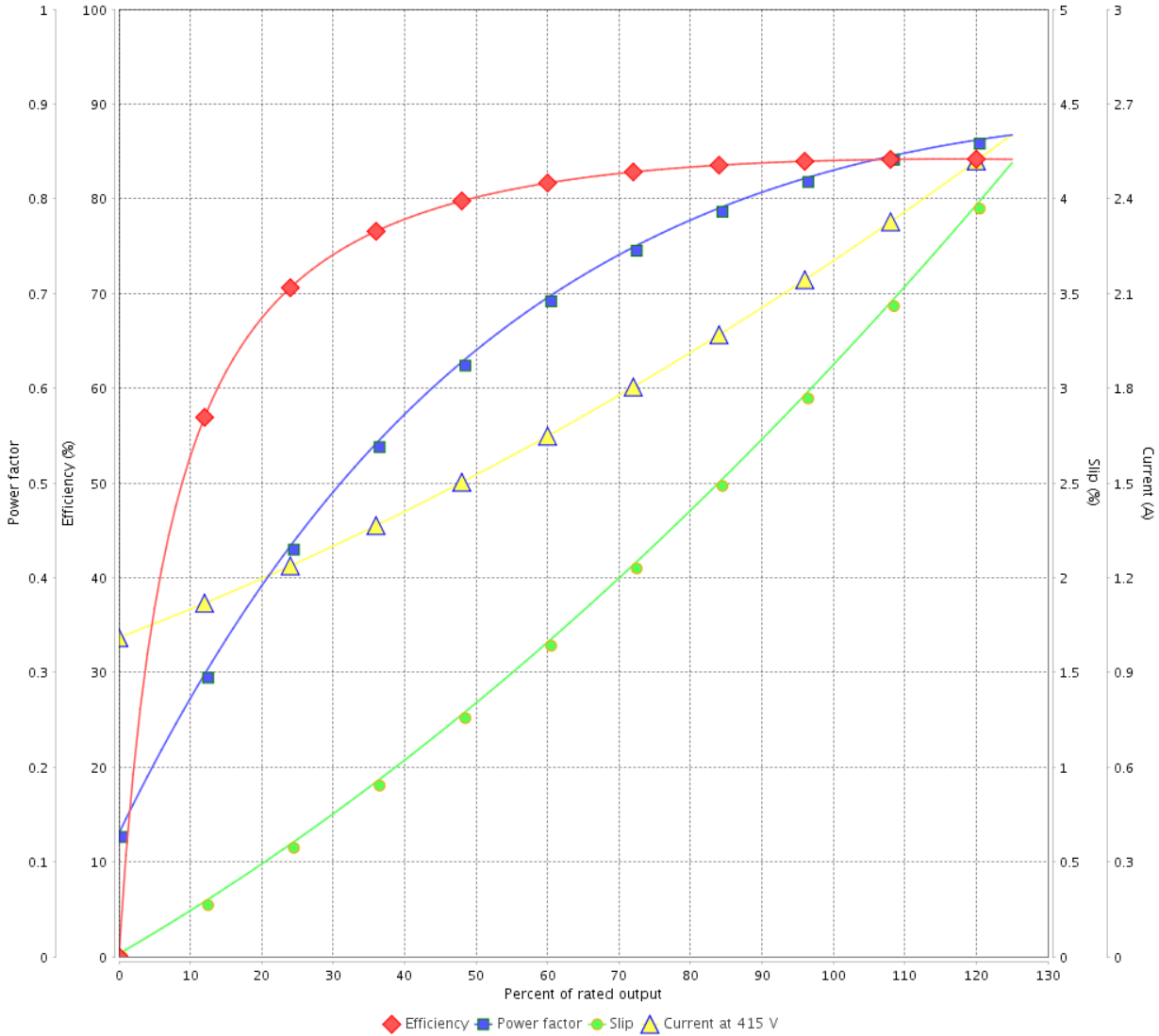
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Performance : 415 V 50 Hz 2P IE3

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

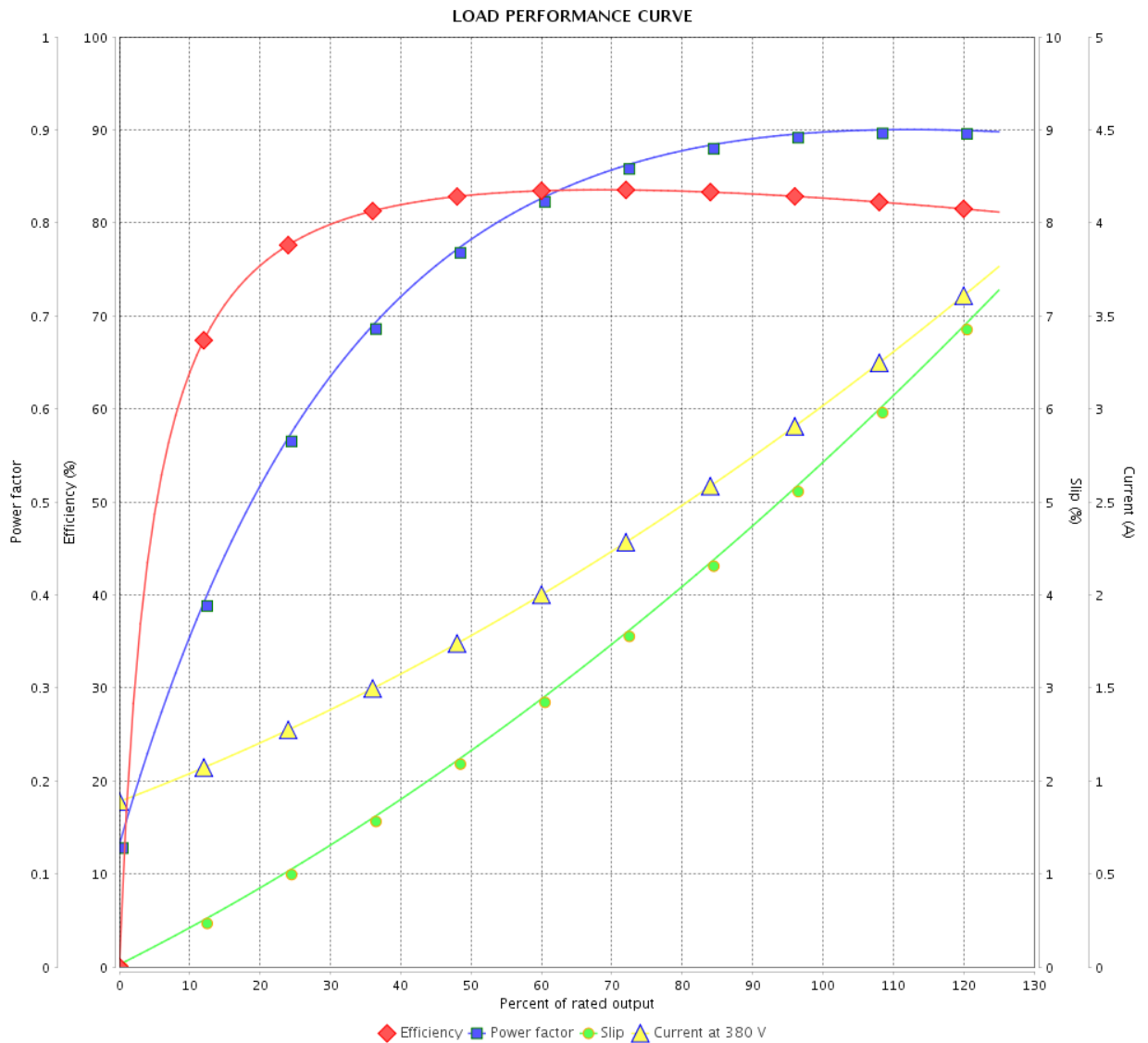


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Product code : 11642183

Catalog # : 00236ET3E145JM-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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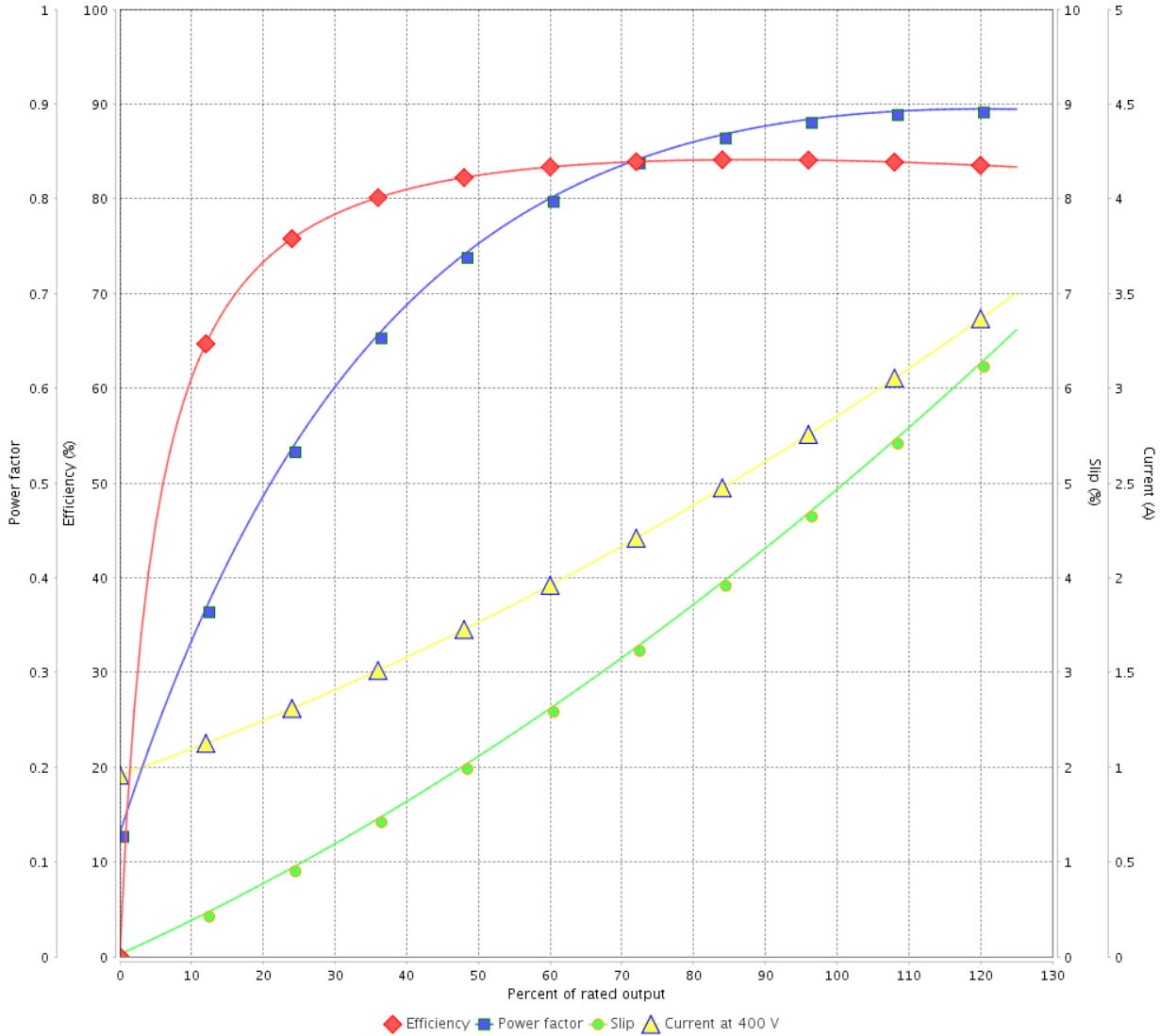
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Performance : 400 V 50 Hz 2P IE2

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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Three Phase Induction Motor - Squirrel Cage

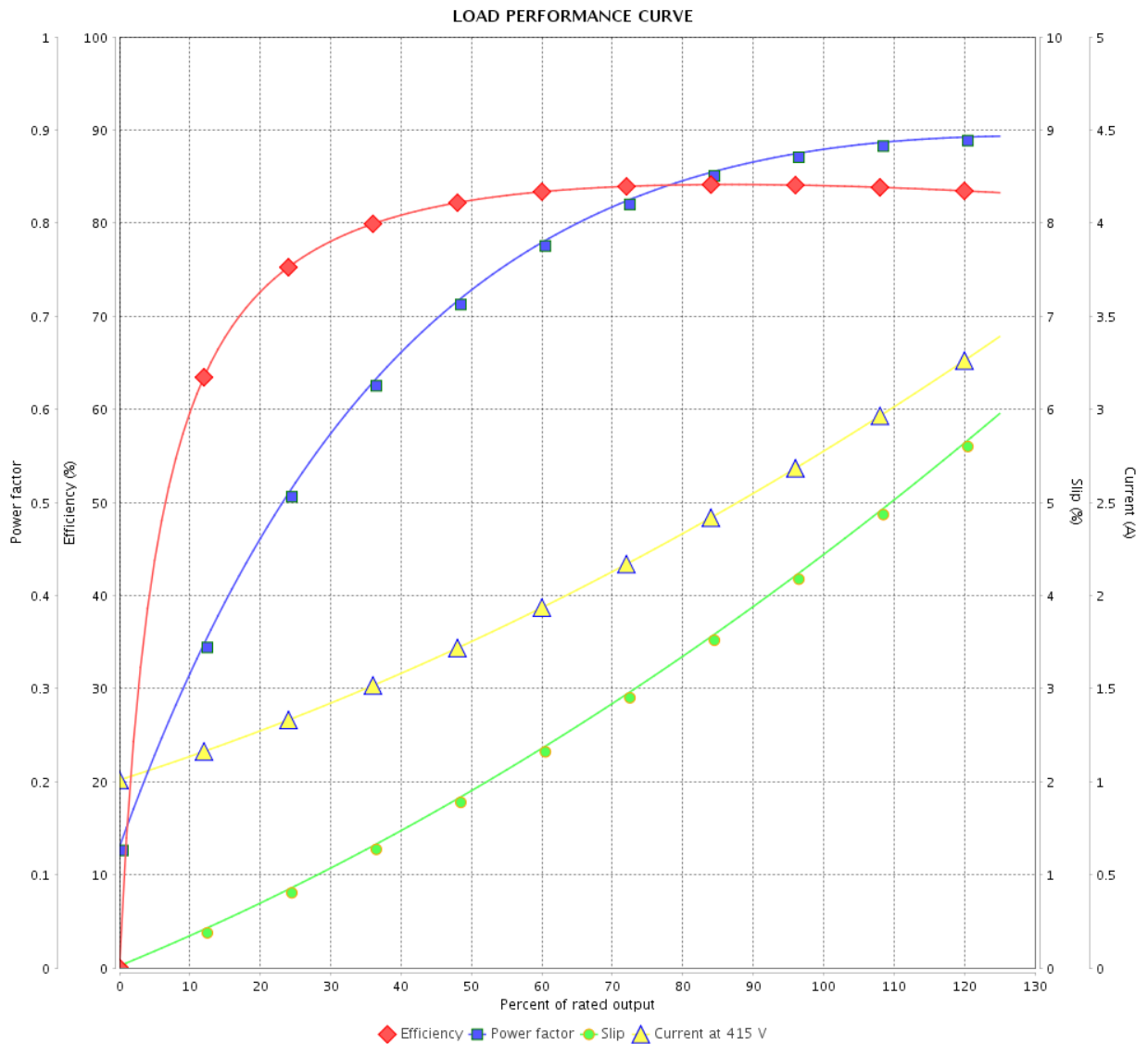


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Performance : 415 V 50 Hz 2P IE2

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 : 11642183
Catalog # : 00236ET3E145JM-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

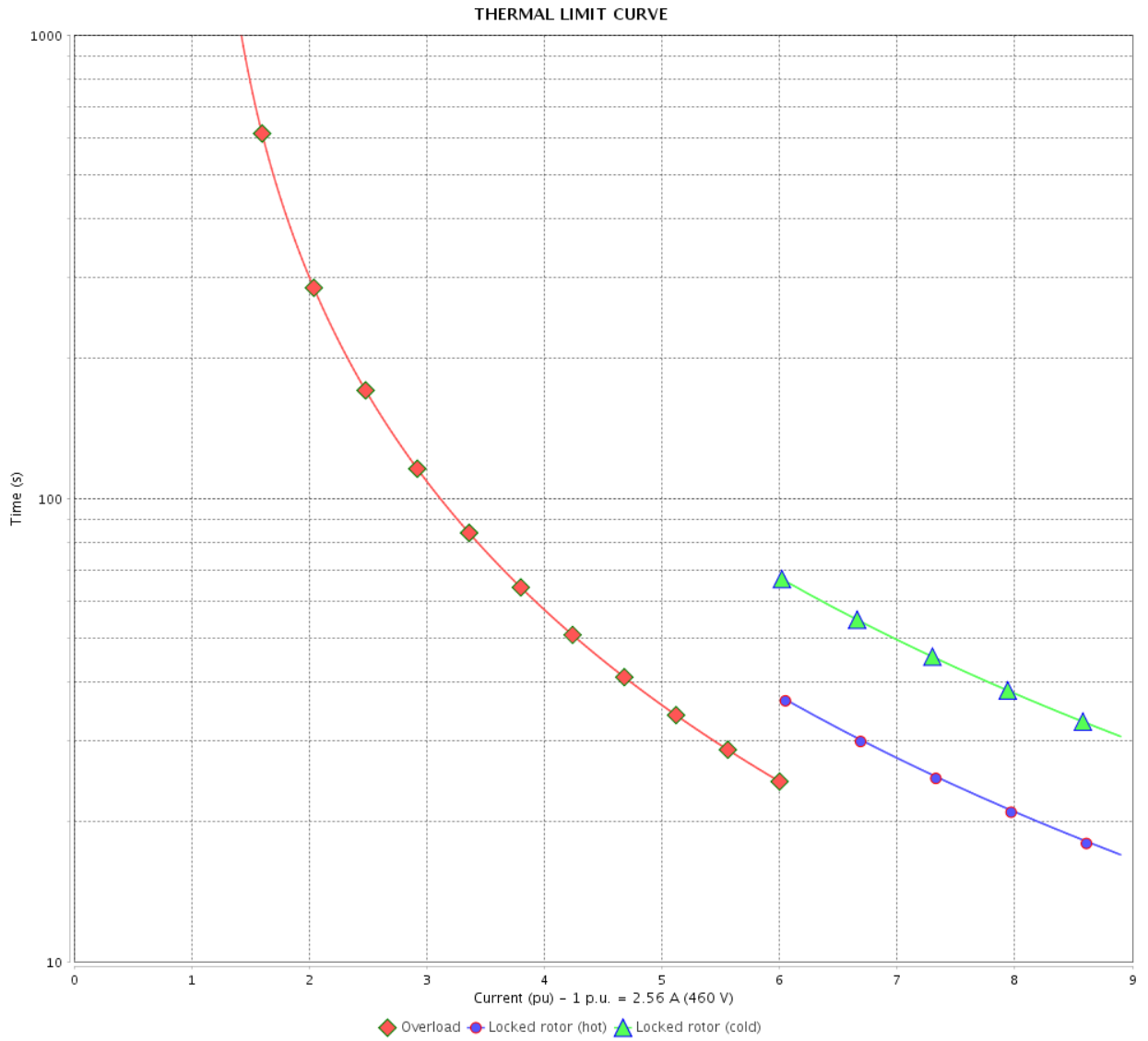
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Customer : _____



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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase
Product code : 11642183
Catalog # : 00236ET3E145JM-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

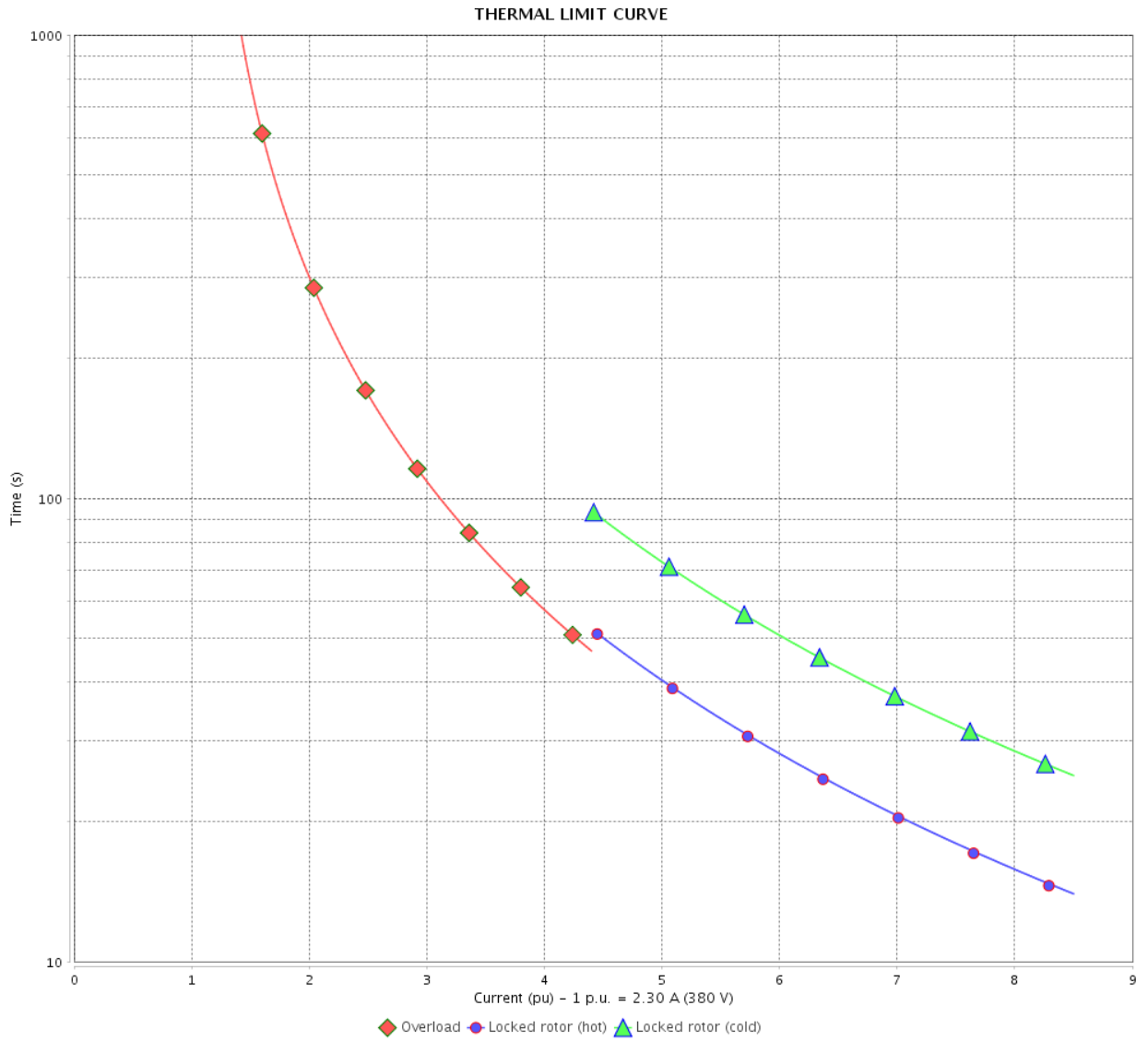
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Performance : 400 V 50 Hz 2P IE3

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

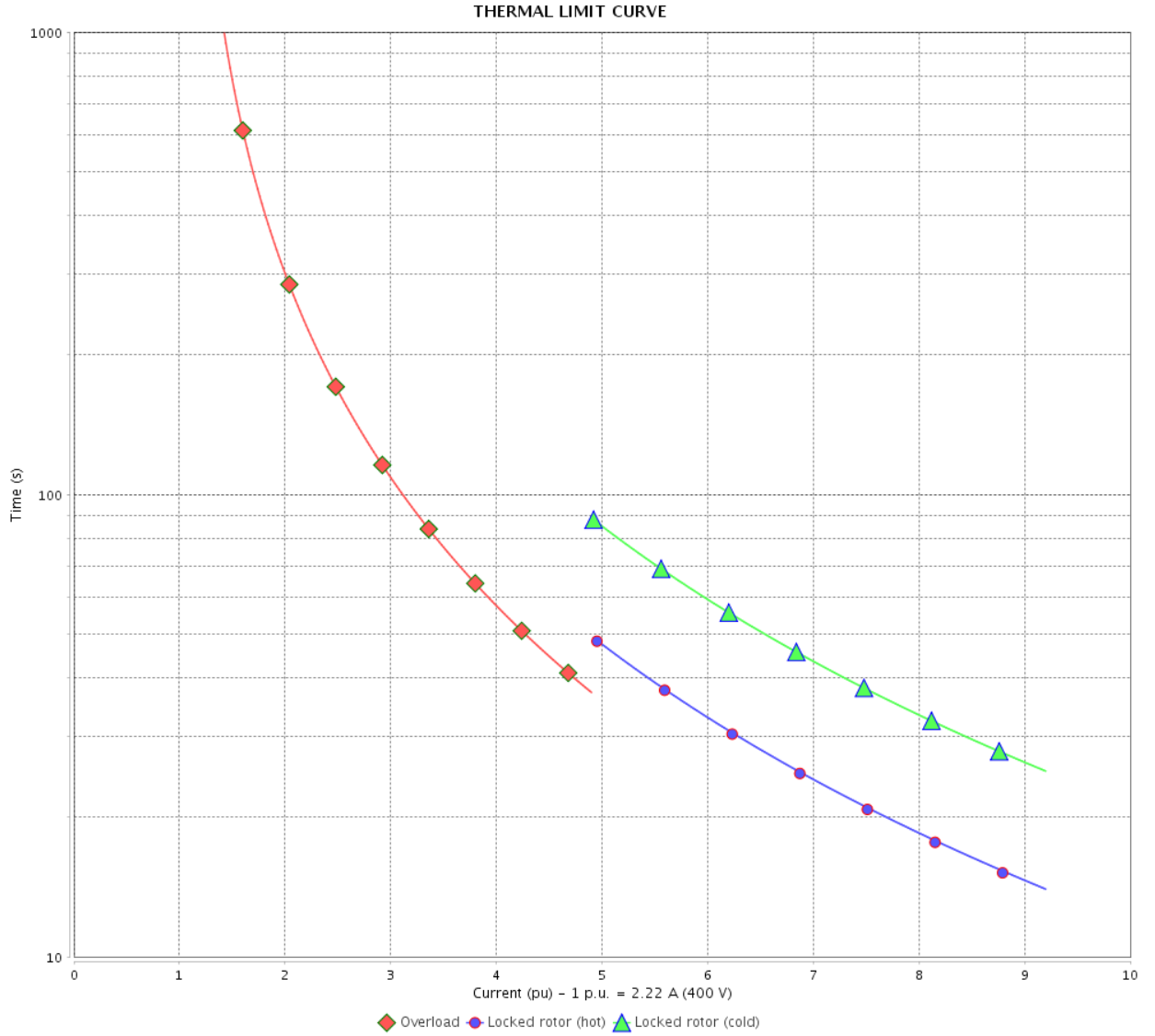
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Rated current	: 2.19 A	Moment of inertia (J)	: 0.0605 sq.ft.lb
LRC	: 9.7	Duty cycle	: Cont.(S1)
Rated torque	: 2.71 ft.lb	Insulation class	: F
Locked rotor torque	: 450 %	Service factor	: 1.25
Breakdown torque	: 459 %	Temperature rise	: 80 K
Rated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

Heating constant

Cooling constant

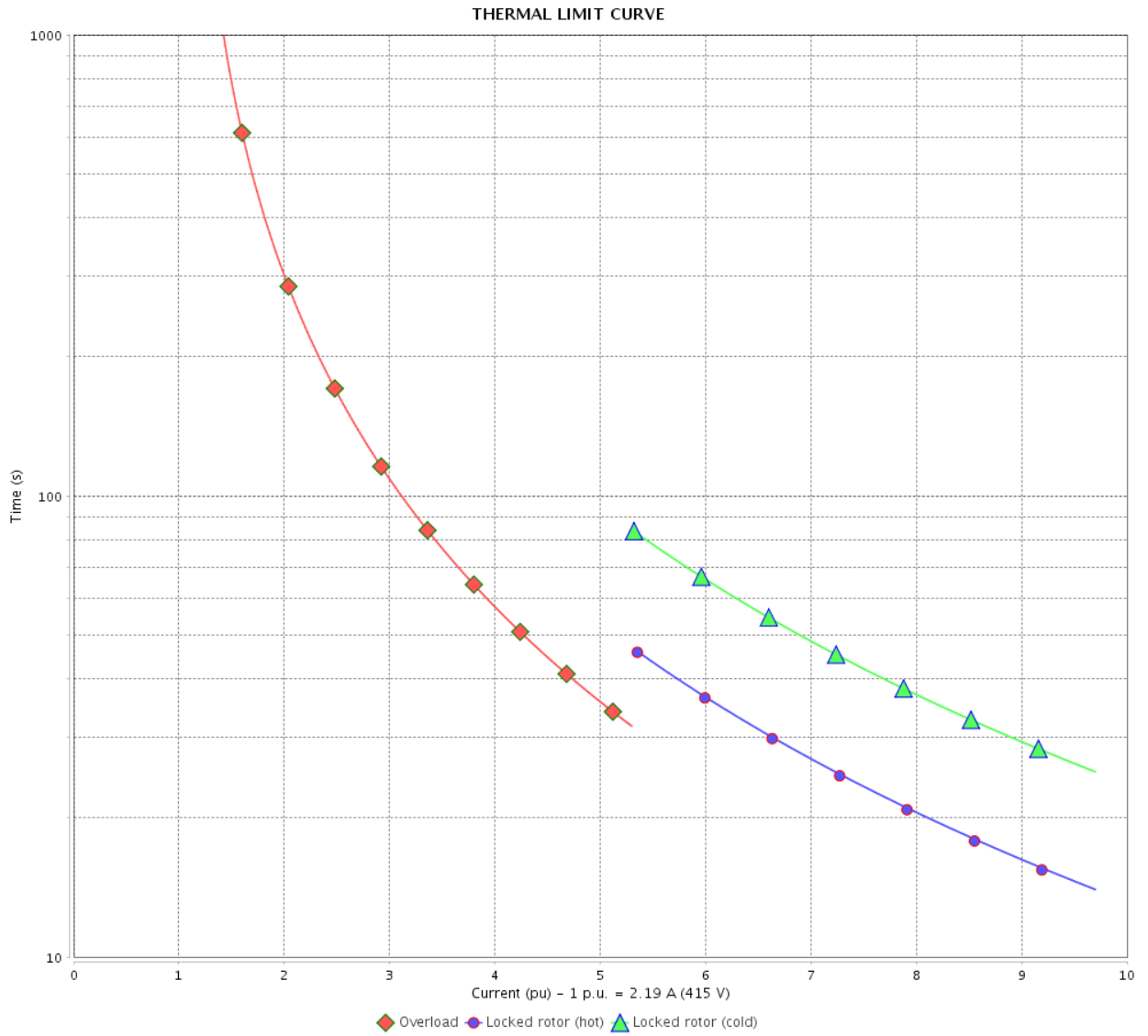
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Rated current	: 3.07 A	Moment of inertia (J)	: 0.0605 sq.ft.lb
LRC	: 6.5	Duty cycle	: Cont.(S1)
Rated torque	: 3.70 ft.lb	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.25
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated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

Heating constant

Cooling constant

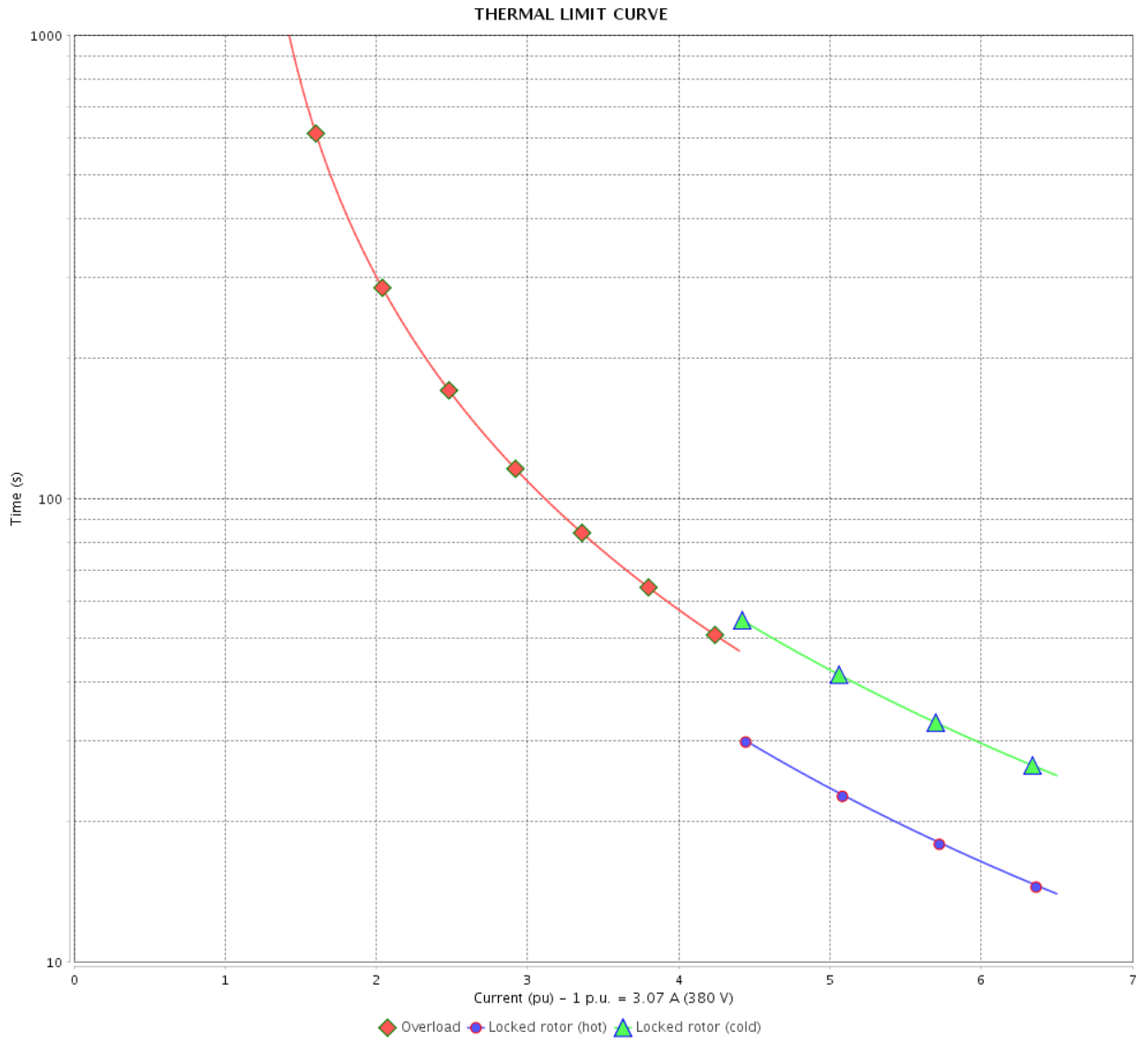
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Catalog # : 00236ET3E145JM-W22

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

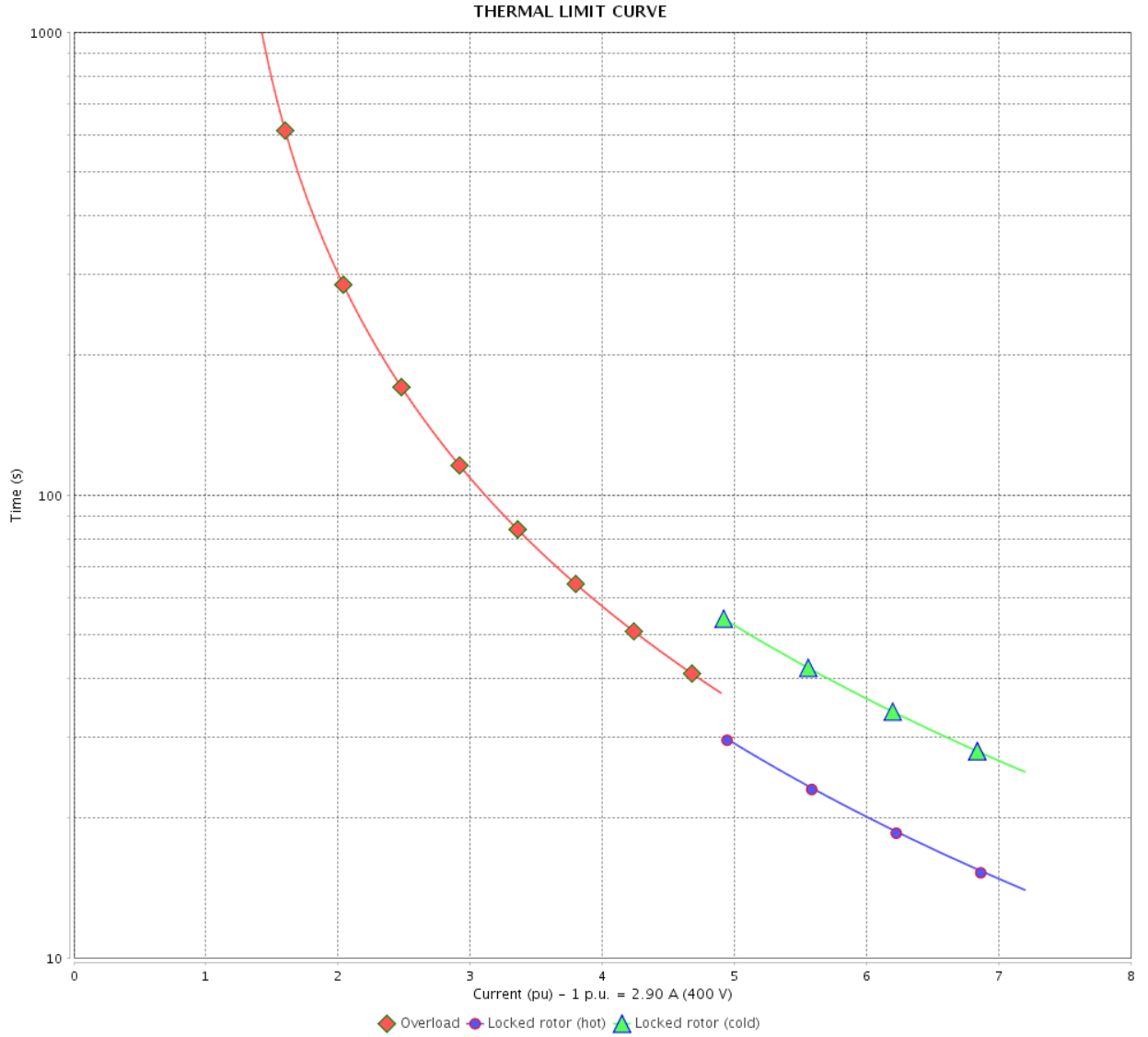
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	13/04/2022		26 / 36	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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THERMAL LIMIT CURVE



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase
Product code : 11642183
Catalog # : 00236ET3E145JM-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

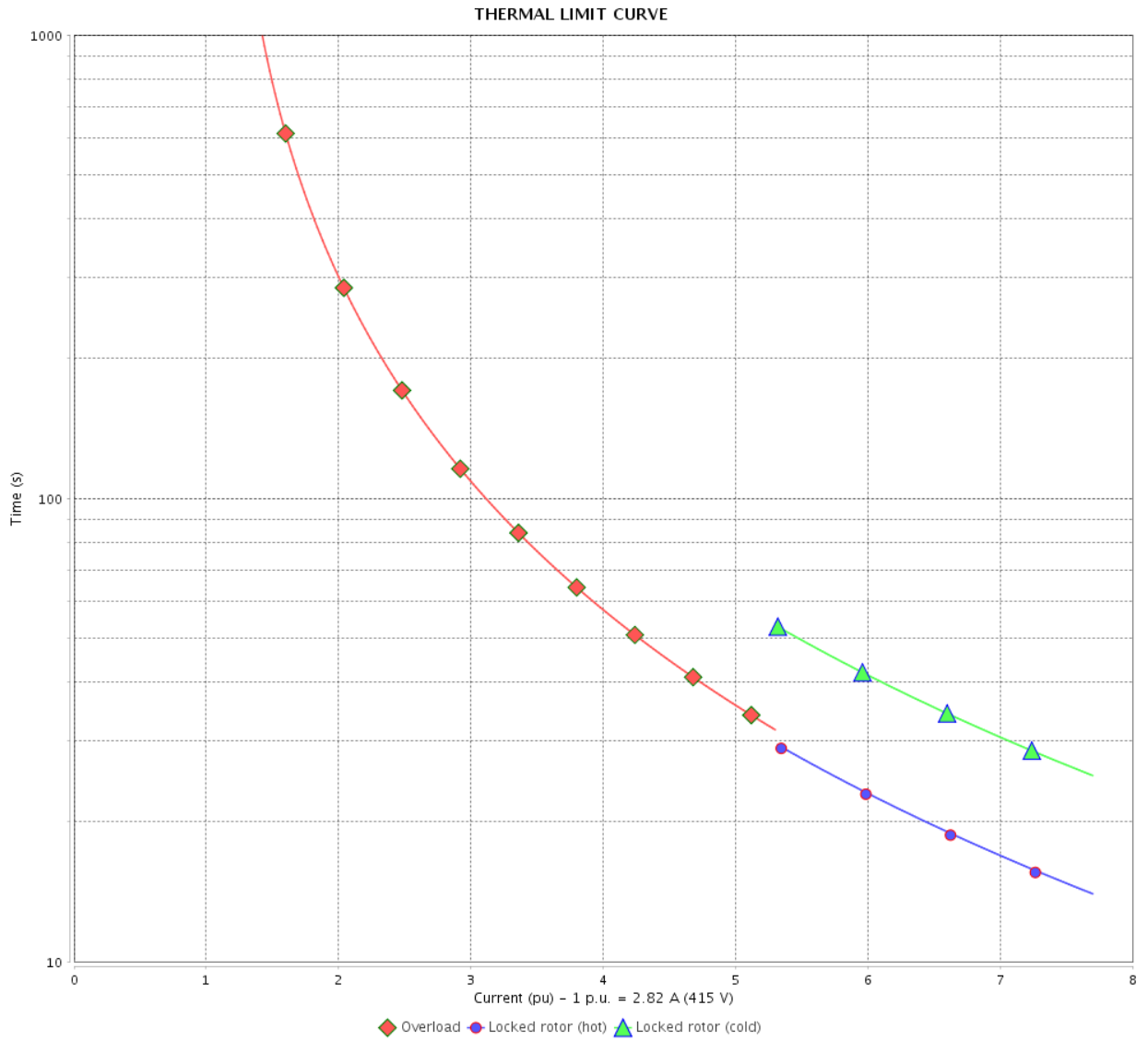
Rev.	Changes Summary	Performed	Checked	Date
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Checked by			Page	Revision
Date	13/04/2022		28 / 36	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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Date		13/04/2022		

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



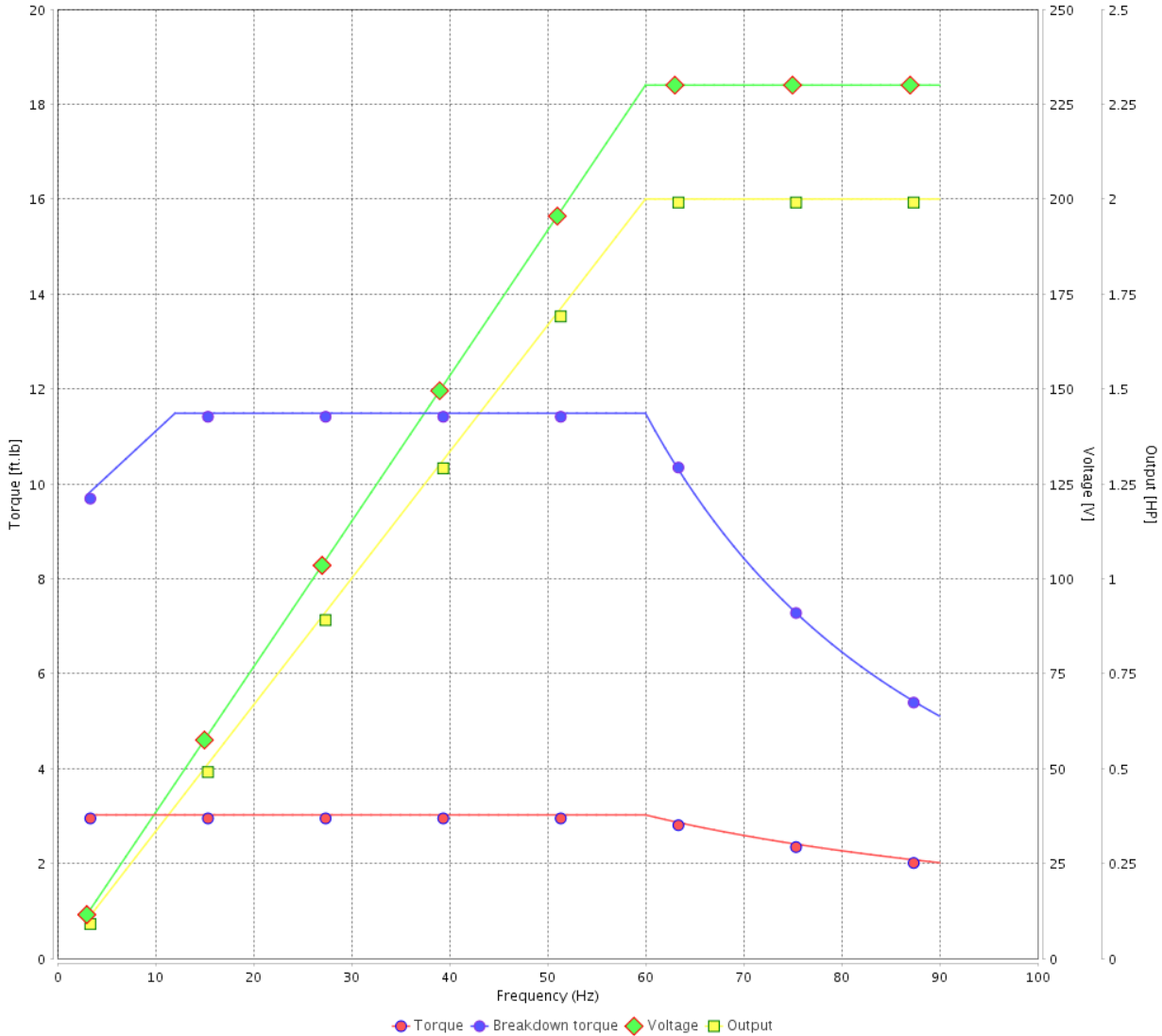
Customer : _____

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11642183

Catalog # : 00236ET3E145JM-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

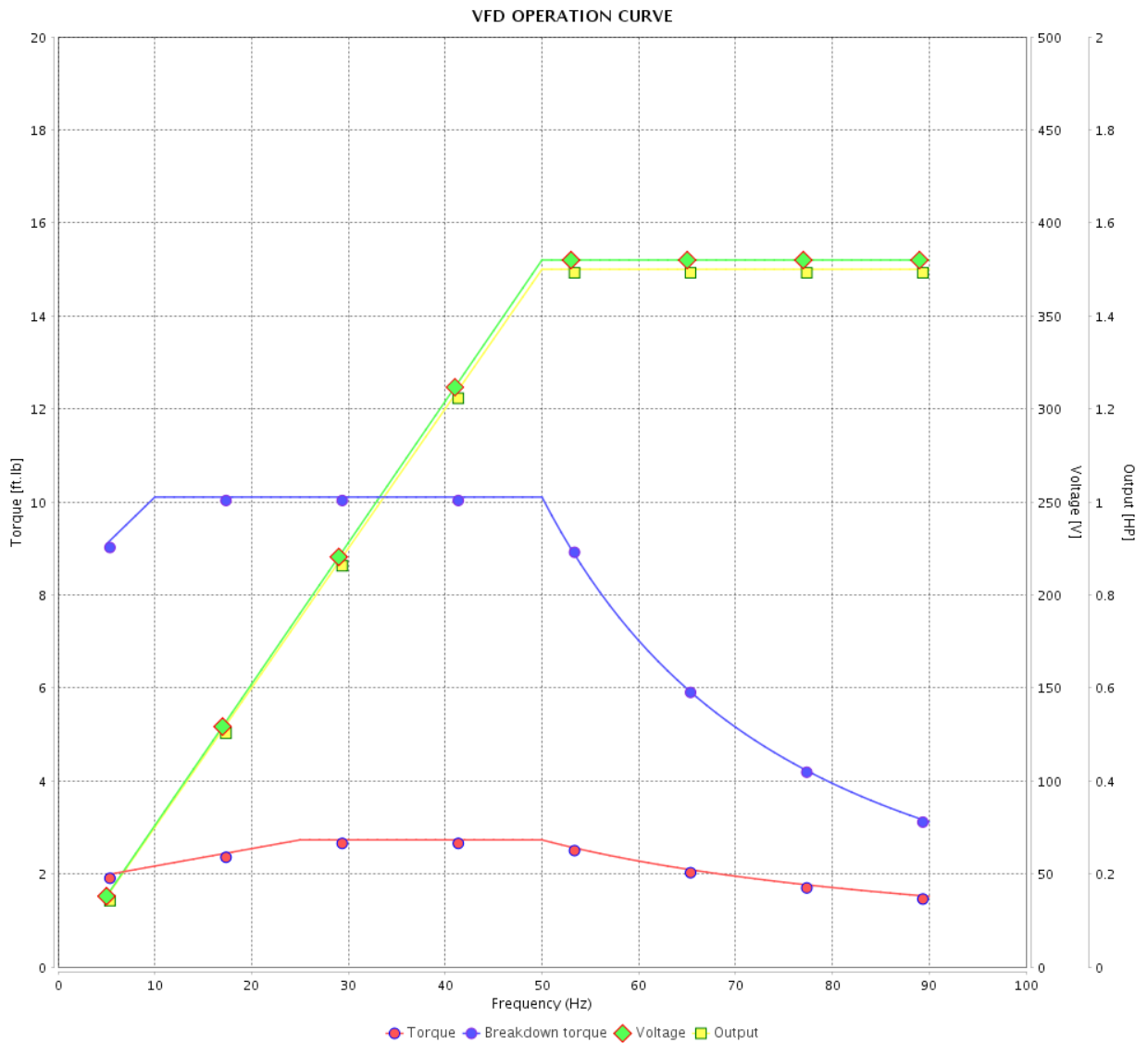


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11642183

Catalog # : 00236ET3E145JM-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

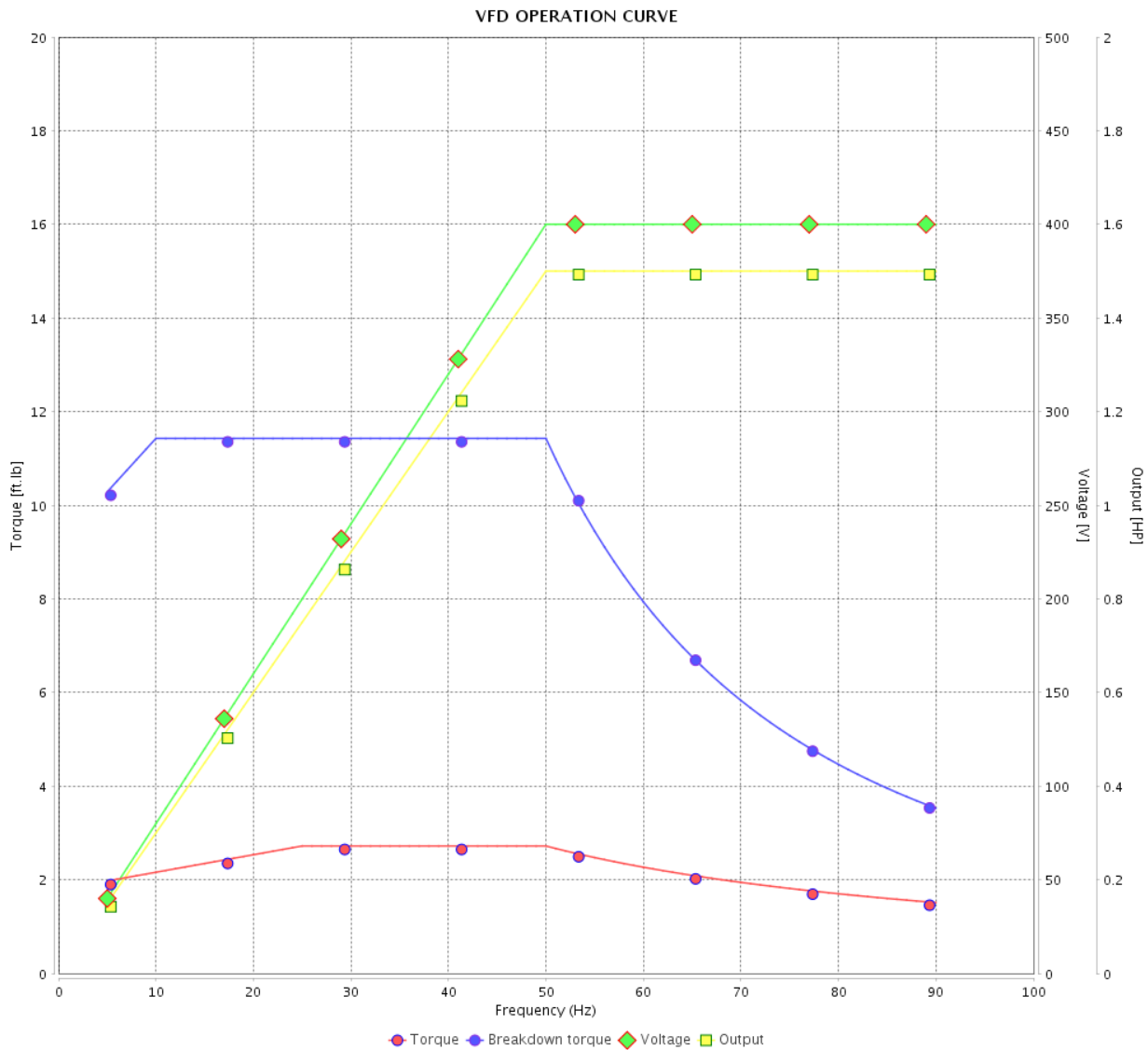


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11642183

Catalog # : 00236ET3E145JM-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

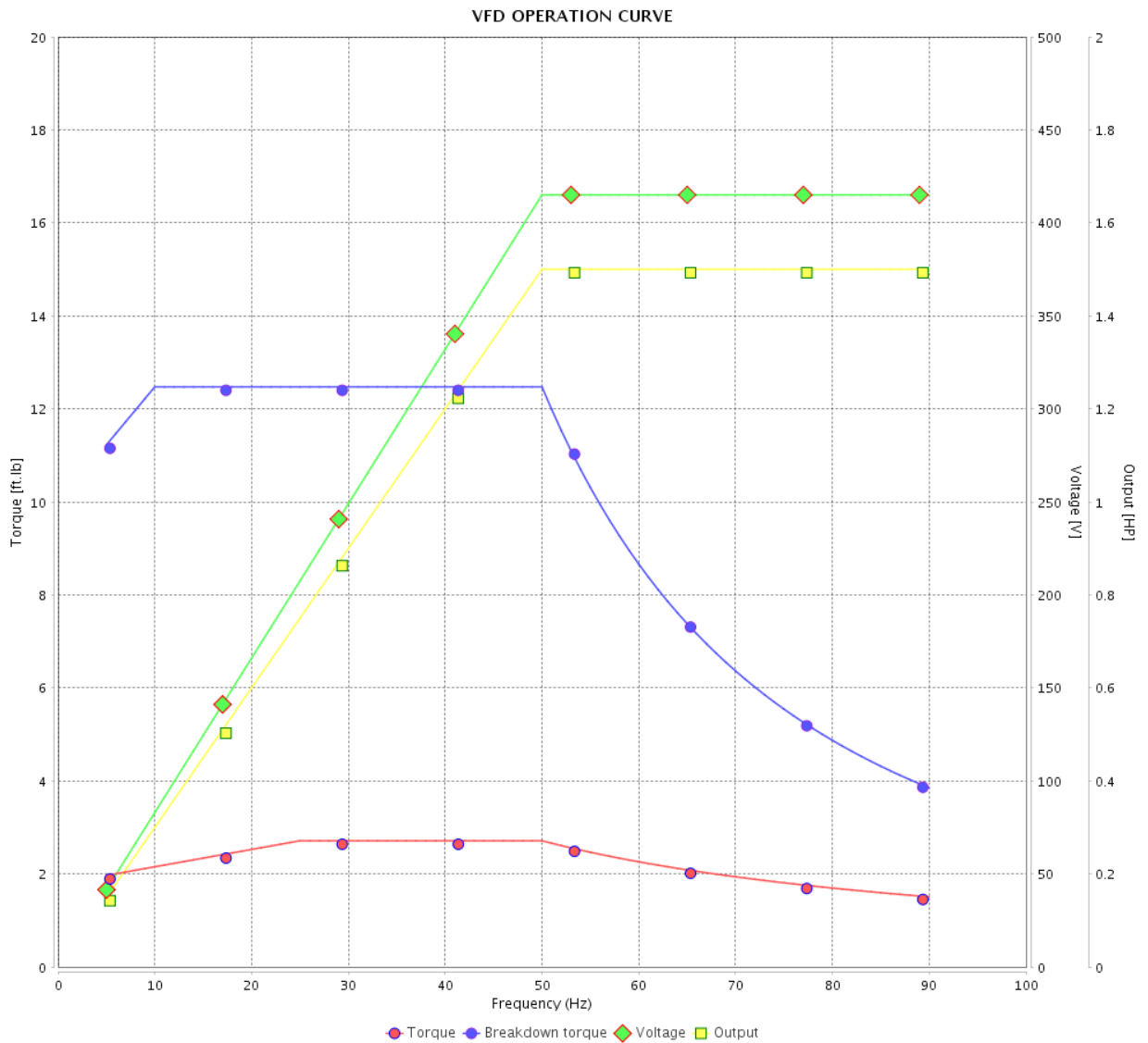


Customer : _____

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11642183

Catalog # : 00236ET3E145JM-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



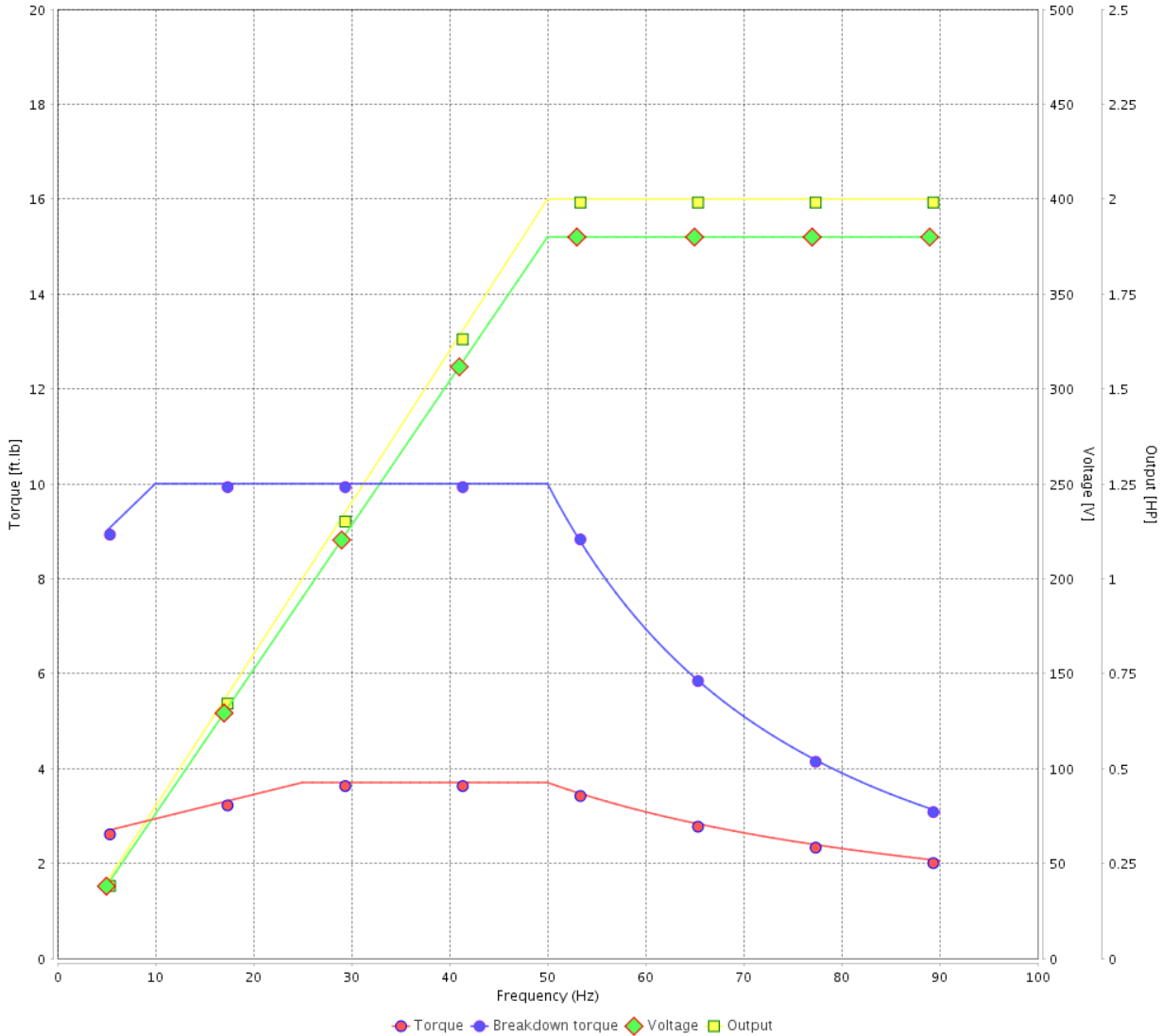
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11642183

Catalog # : 00236ET3E145JM-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
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Date				

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

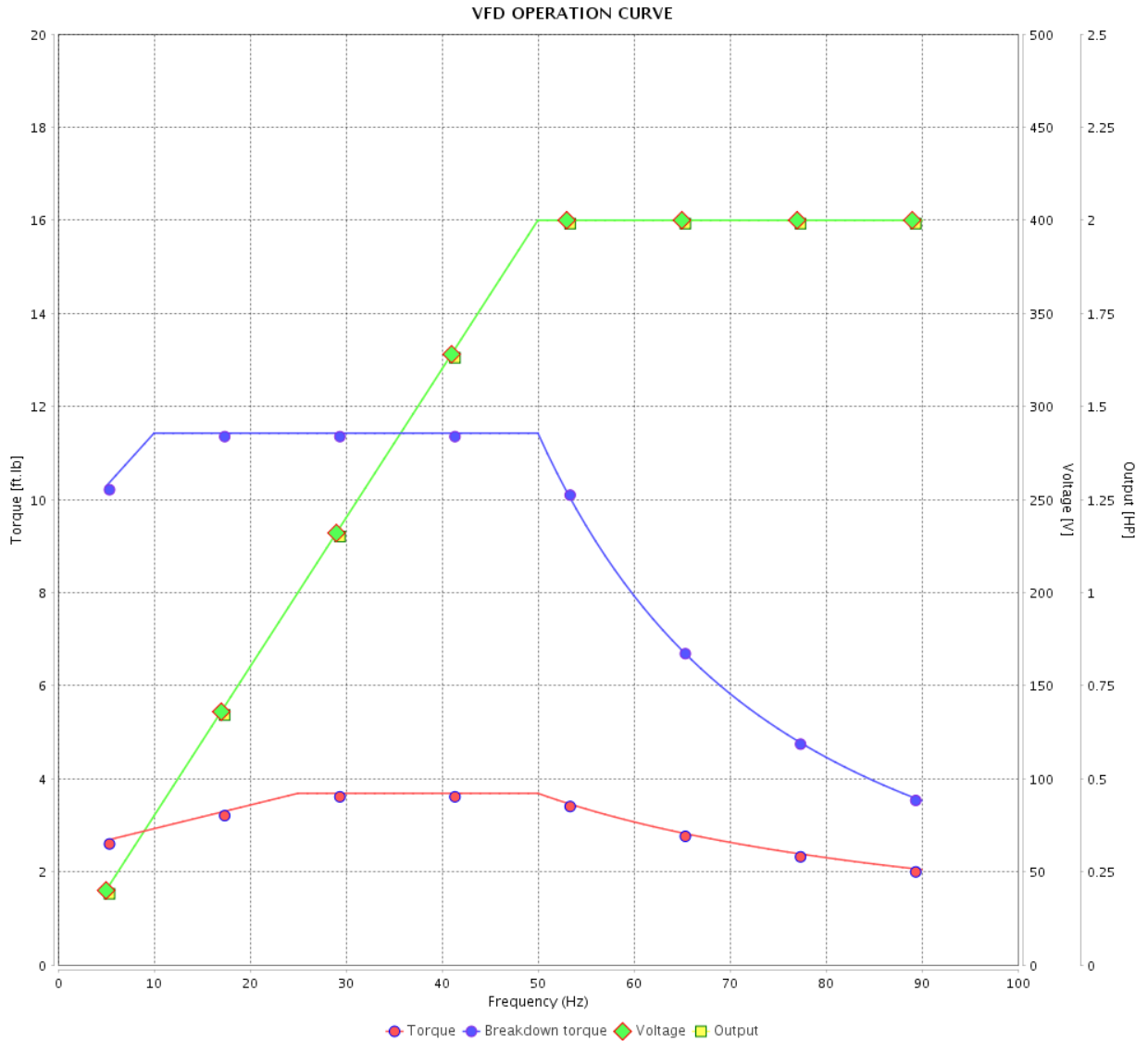


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11642183

Catalog # : 00236ET3E145JM-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

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page		Revision
Checked by		35 / 36		
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

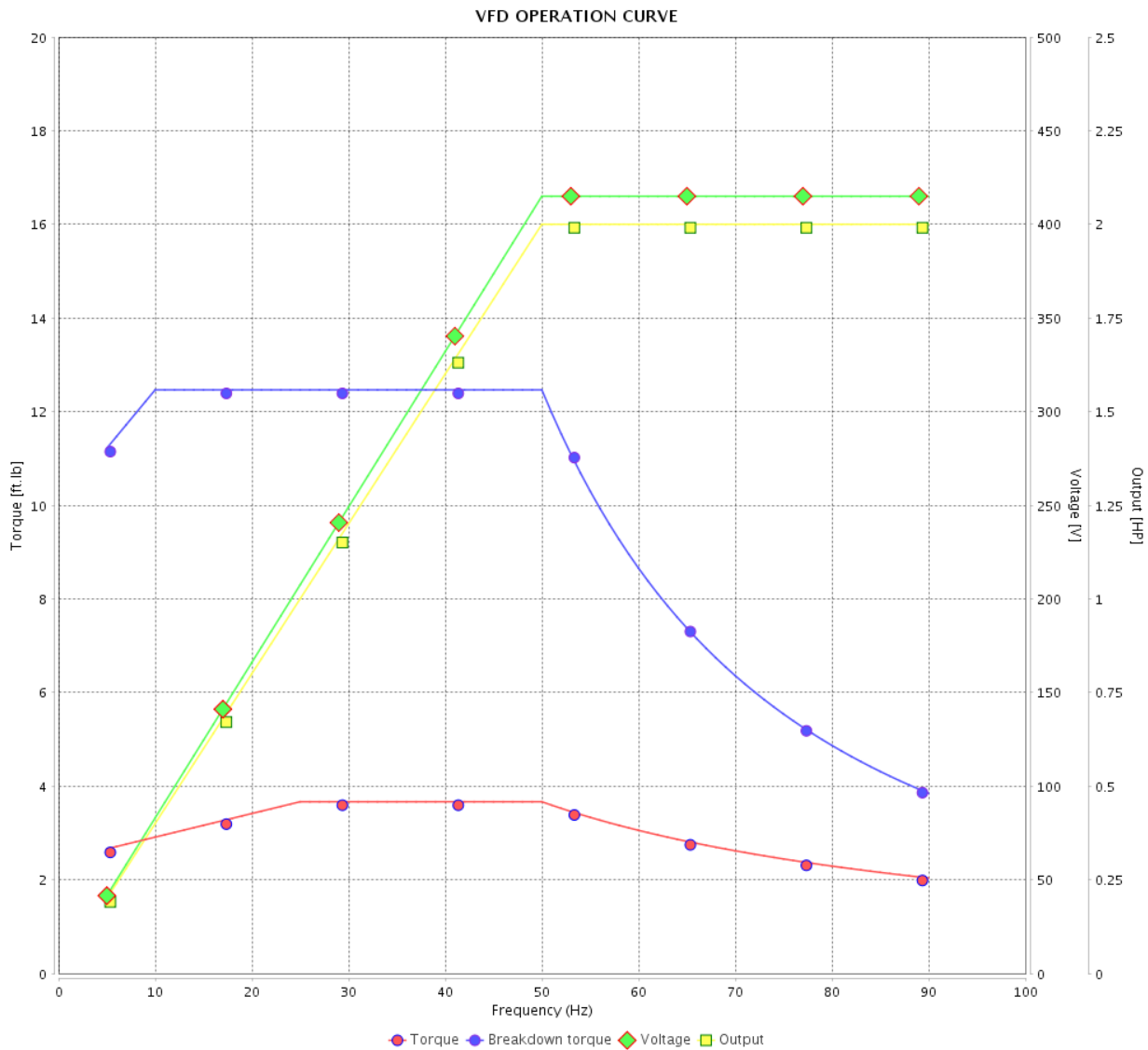


Customer : _____

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11642183

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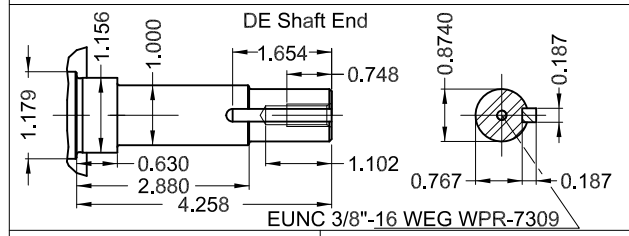
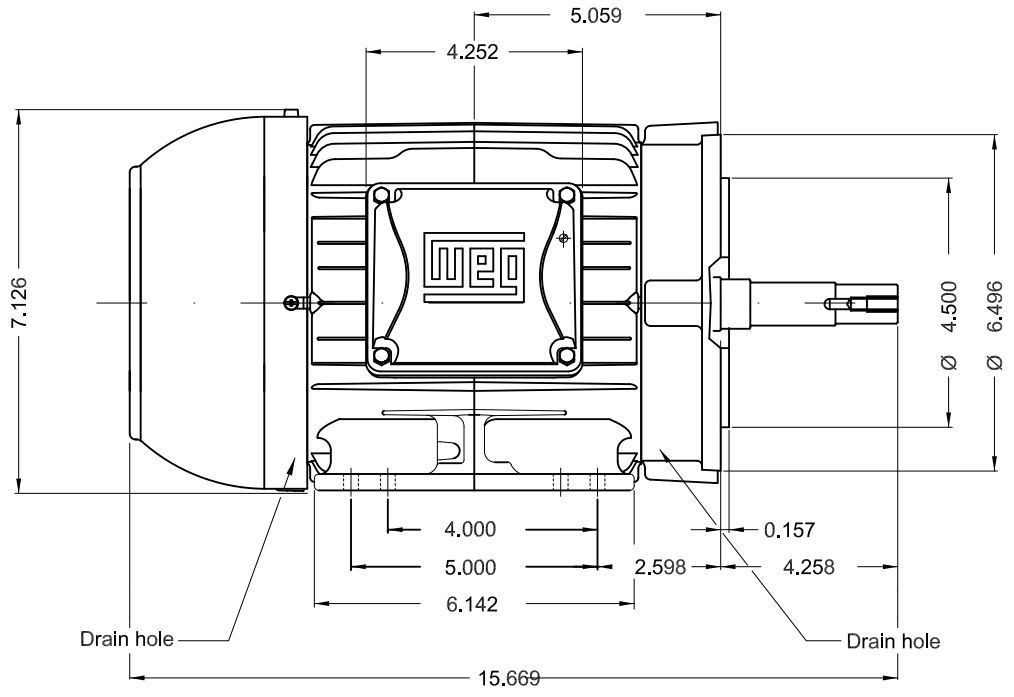
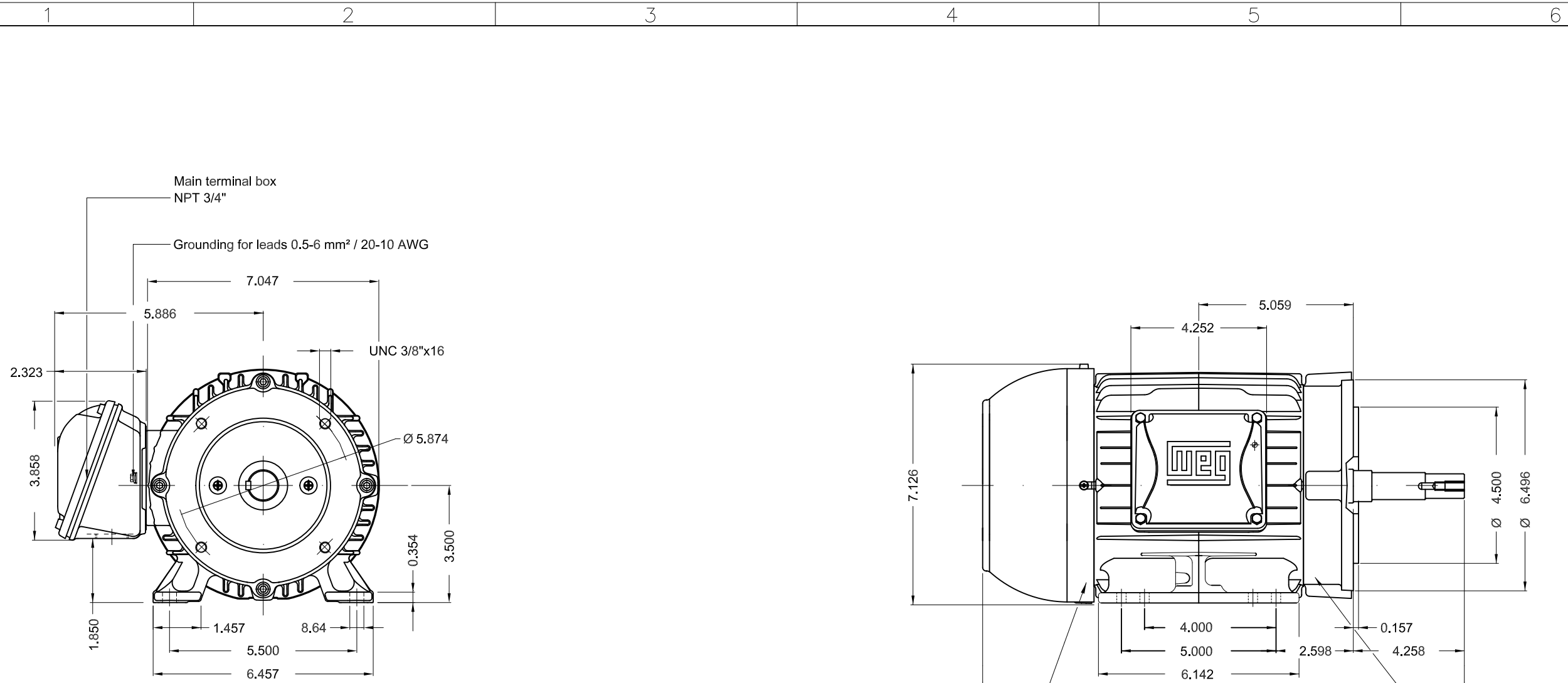


Performance : 415 V 50 Hz 2P IE2

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 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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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 JM/JP/JET PUMP W22 PREM. EFF.		PREVIEW											
CHECKED			FRAME 143/5JM IP55 TEFC		WDD											
RELEASED																
REL DT.			WMO Jaragua do Sul		Product Engineering		SHEET			1 / 1						

Dimensions in inches XME A3

**W22**

CC029A

® Inverter Duty Motor
Severe Duty

11642183

MADE IN MEXICO MODEL 00236ET3E145JM-W22

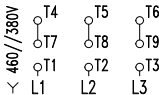
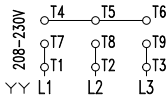
PH 3 | FR 143/5JM | HP(kw) 2.0(1.5) | Hz 60 | SF 1.25 | PF 0.86

V 230/460 | A 5.12/2.56 | RPM 3475 | INS. CL. F ΔT 80 K | IP55

NEMA NOM EFF 85.5 % | DES B | DUTY CONT. | AMB 40°C

ENCL TEFC | SFA 6.40/3.20 | USABLE @208V 5.60 A SF 1.15 SFA 6.44

2.0HP 1.5kW 50Hz 380V 3.07A 2835RPM SF1.25 EFF 82.5% (IE2) | CODE L



→6206-ZZ

→6204-ZZ

MOBIL POLYREX EM

ALT 1000 m.a.s.l. | 55 Lbs

For 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

VT1000:1, CT20:1, 1.0SF, T4A

C US
Energy Verified3PT9
US LISTEDFOR SAFE AREA
MOD.TE1BFOXON