

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer							
Product line		: NEMA Premium Efficiency Three-Phase		Product code :		11440288	
				Catalog # :		03036ET3E286TSC-W22	
Frame		: 284/6TSC		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		: 424 lb	
Protection degree		: IP55		Moment of inertia (J)		: 3.37 sq.ft.lb	
Design		: B					
Output [HP]	30	25	25	25	30	30	30
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]	67.6/33.8	34.2	32.5	31.3	42.0	39.6	37.8
L. R. Amperes [A]	426/213	202	218	225	206	218	227
LRC [A]	6.3x(Code G)	5.9x(Code F)	6.7x(Code G)	7.2x(Code H)	4.9x(Code E)	5.5x(Code F)	6.0x(Code F)
No load current [A]	16.0/8.00	7.50	8.00	8.50	7.50	8.00	8.50
Rated speed [RPM]	3535	2930	2940	2950	2895	2910	2925
Slip [%]	1.81	2.33	2.00	1.67	3.50	3.00	2.50
Rated torque [ft.lb]	44.6	44.8	44.7	44.5	54.4	54.1	53.9
Locked rotor torque [%]	200	190	220	229	160	180	190
Breakdown torque [%]	250	229	270	290	190	220	240
Service factor	1.25	1.00	1.00	1.00	1.00	1.00	1.00
Temperature rise	80 K	80 K	80 K	80 K	105 K	105 K	105 K
Locked rotor time	27s (cold) 15s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)
Noise level ²	72.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)
Efficiency (%)	25%						
	50%	91.7	91.0	91.1	91.2	91.7	91.7
	75%	91.7	91.5	91.5	91.8	90.2	91.0
	100%	91.7	92.4	92.4	92.4	89.5	90.2
Power Factor	25%						
	50%	0.82	0.80	0.79	0.77	0.85	0.84
	75%	0.87	0.87	0.87	0.86	0.88	0.88
	100%	0.89	0.89	0.89	0.89	0.89	0.89
Bearing type	: 6311 C3	: 6211 C3	Foundation loads				
Sealing	: V'Ring	: V'Ring	Max. traction		: 351 lb		
Lubrication interval	: 14000 h	: 17000 h	Max. compression		: 775 lb		
Lubricant amount	: 18 g	: 11 g					
Lubricant type	: Mobil Polyrex EM						
Notes							
USABLE @208V 76.7A SF 1.10 SFA 84.4A							
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



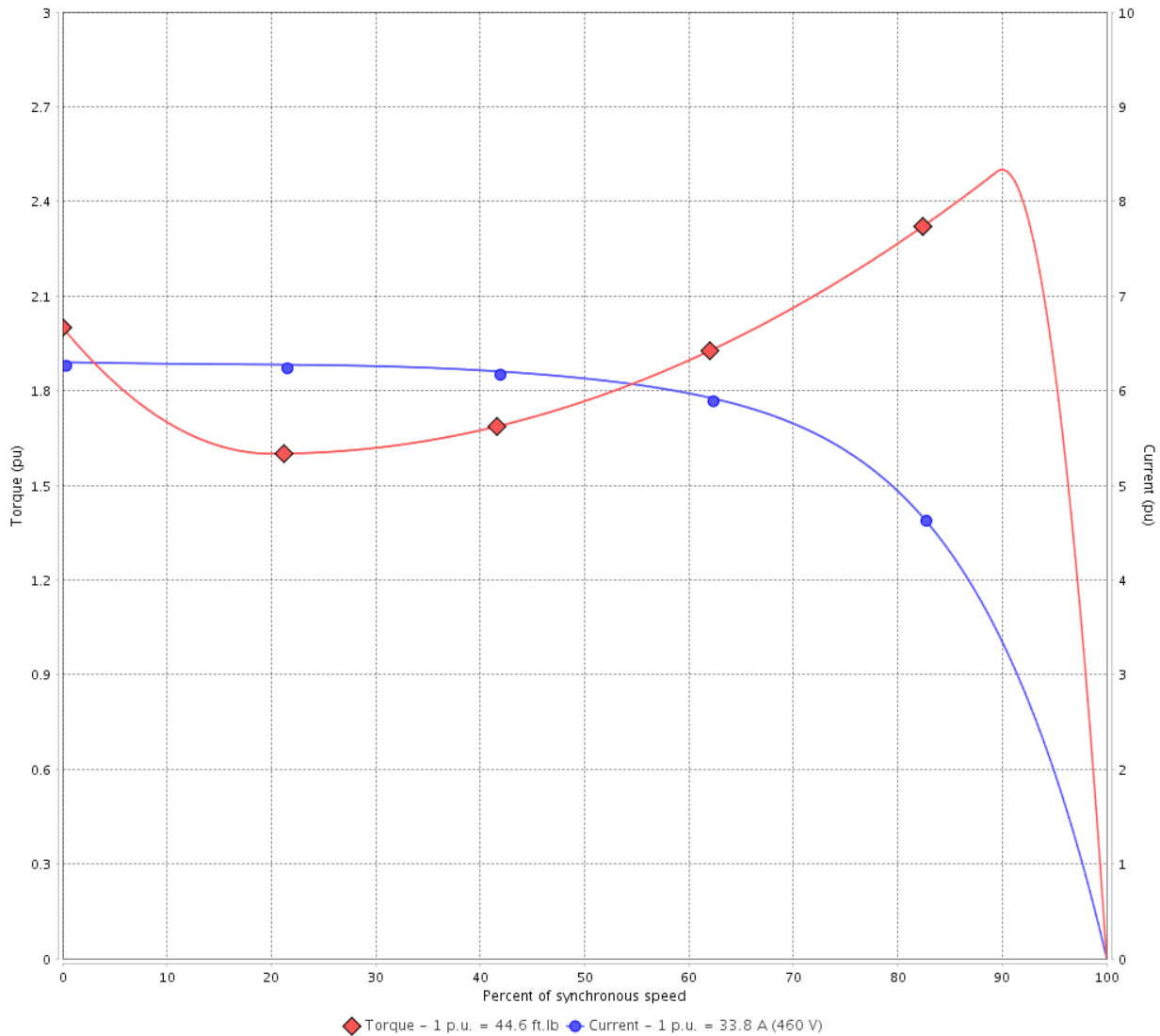
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11440288

Catalog # : 03036ET3E286TSC-W22

TORQUE AND CURRENT VS SPEED CURVE



Performance : 230/460 V 60 Hz 2P

Rated current	: 67.6/33.8 A	Moment of inertia (J)	: 3.37 sq.ft.lb
LRC	: 6.3	Duty cycle	: Cont.(S1)
Rated torque	: 44.6 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.25
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 3535 rpm	Design	: B

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

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TORQUE AND CURRENT VS SPEED CURVE



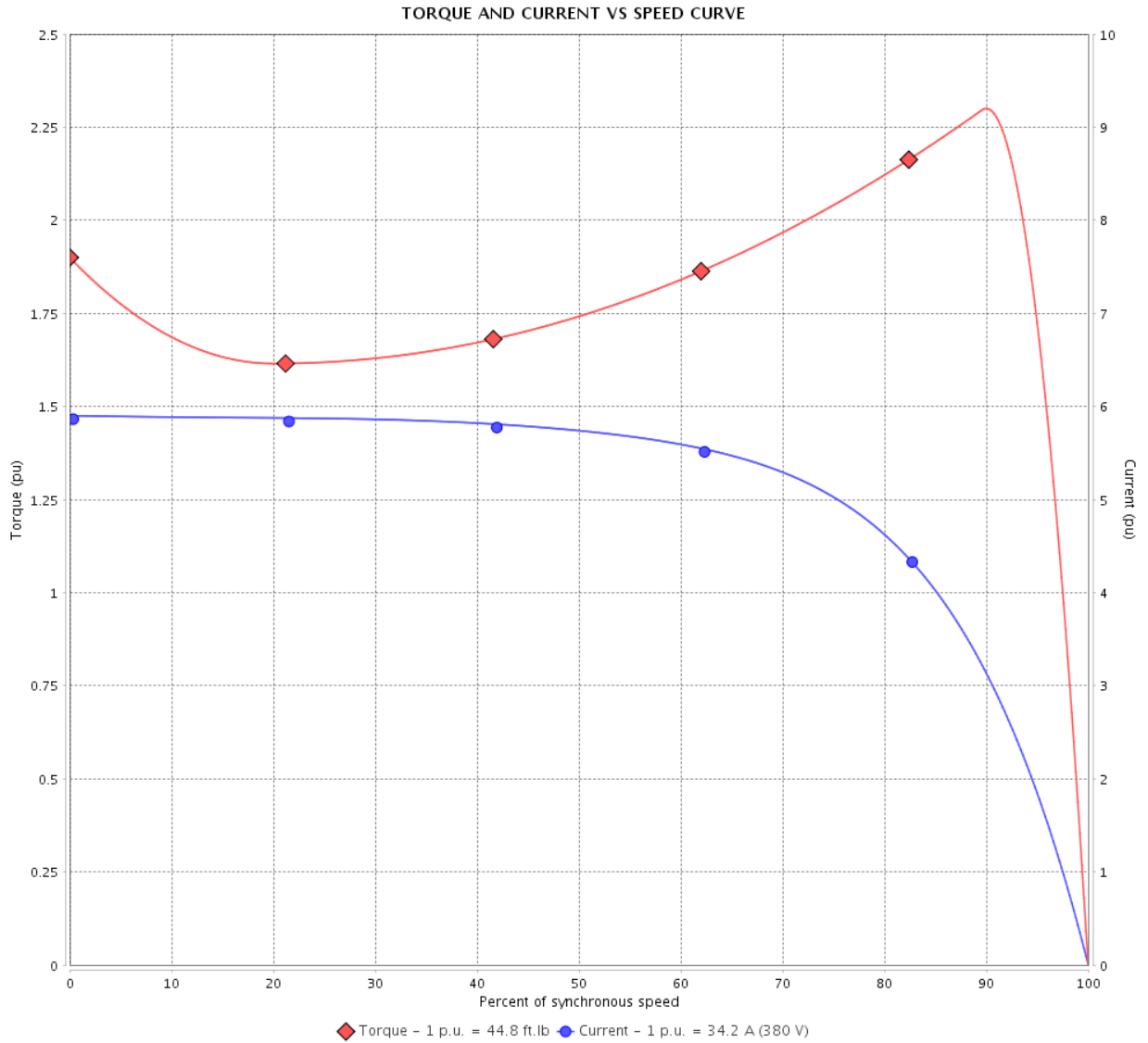
Three Phase Induction Motor - Squirrel Cage

Customer :

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Product code : 11440288

Catalog # : 03036ET3E286TSC-W22



Performance : 380 V 50 Hz 2P IE3

Rated current	: 34.2 A	Moment of inertia (J)	: 3.37 sq.ft.lb
LRC	: 5.9	Duty cycle	: Cont.(S1)
Rated torque	: 44.8 ft.lb	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 229 %	Temperature rise	: 80 K
Rated speed	: 2930 rpm	Design	: B

Locked rotor time : 21s (cold) 12s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



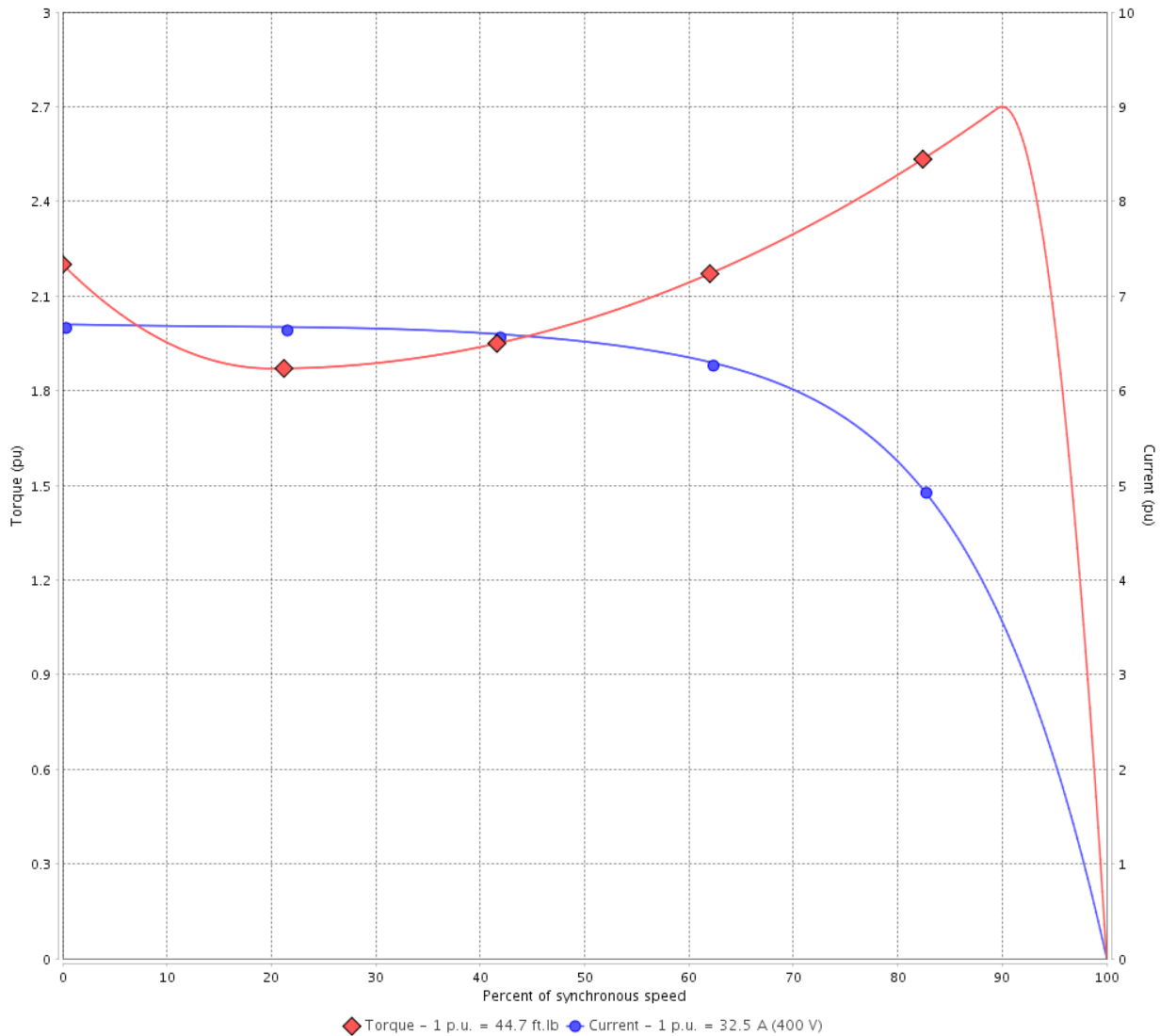
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TORQUE AND CURRENT VS SPEED CURVE



Performance : 400 V 50 Hz 2P IE3

Rated current	: 32.5 A	Moment of inertia (J)	: 3.37 sq.ft.lb
LRC	: 6.7	Duty cycle	: Cont.(S1)
Rated torque	: 44.7 ft.lb	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.00
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 2940 rpm	Design	: B

Locked rotor time : 21s (cold) 12s (hot)

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TORQUE AND CURRENT VS SPEED CURVE



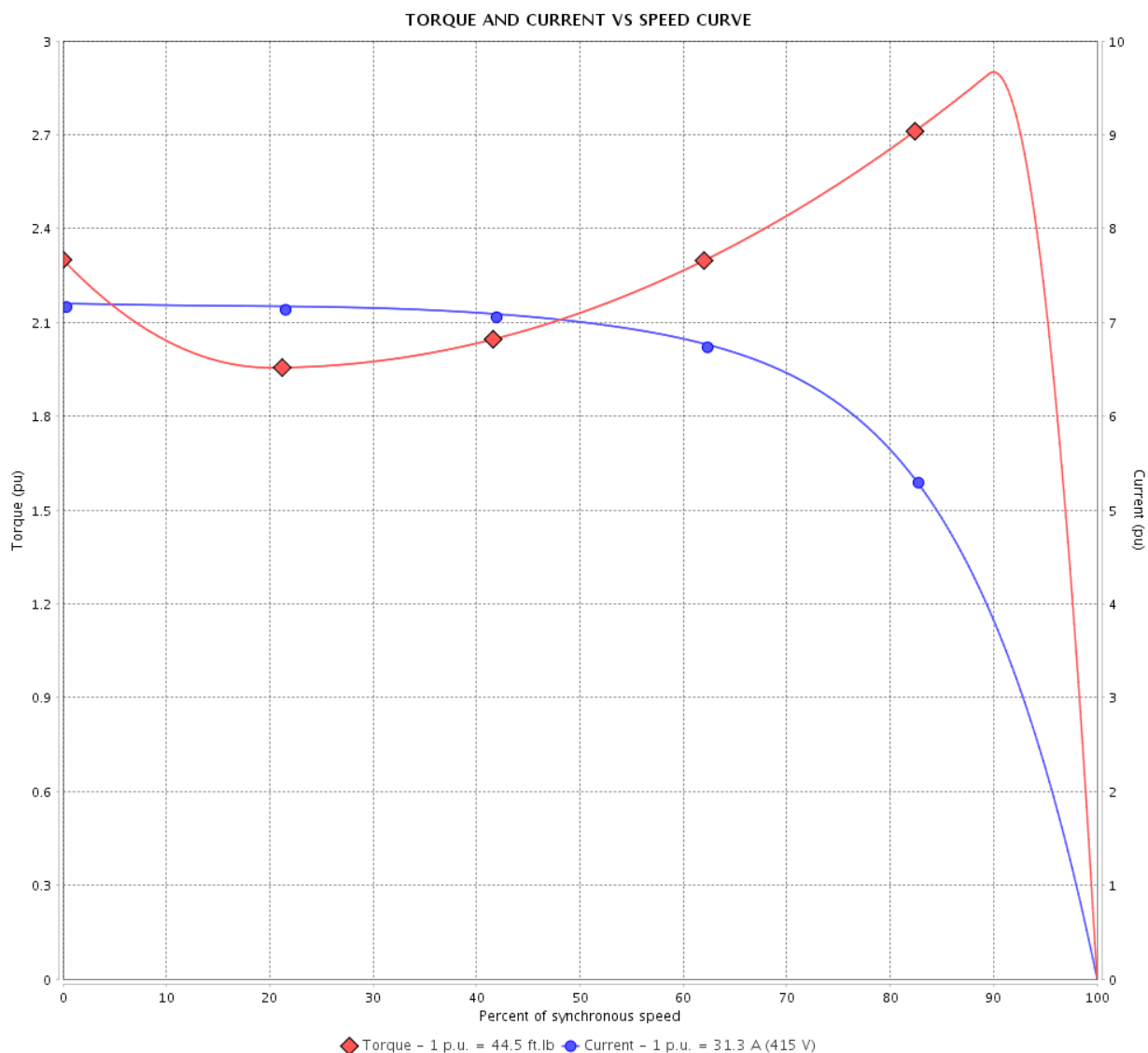
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Product code : 11440288

Catalog # : 03036ET3E286TSC-W22



Performance : 415 V 50 Hz 2P IE3

Rated current	: 31.3 A	Moment of inertia (J)	: 3.37 sq.ft.lb
LRC	: 7.2	Duty cycle	: Cont.(S1)
Rated torque	: 44.5 ft.lb	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.00
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 2950 rpm	Design	: B

Locked rotor time : 21s (cold) 12s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

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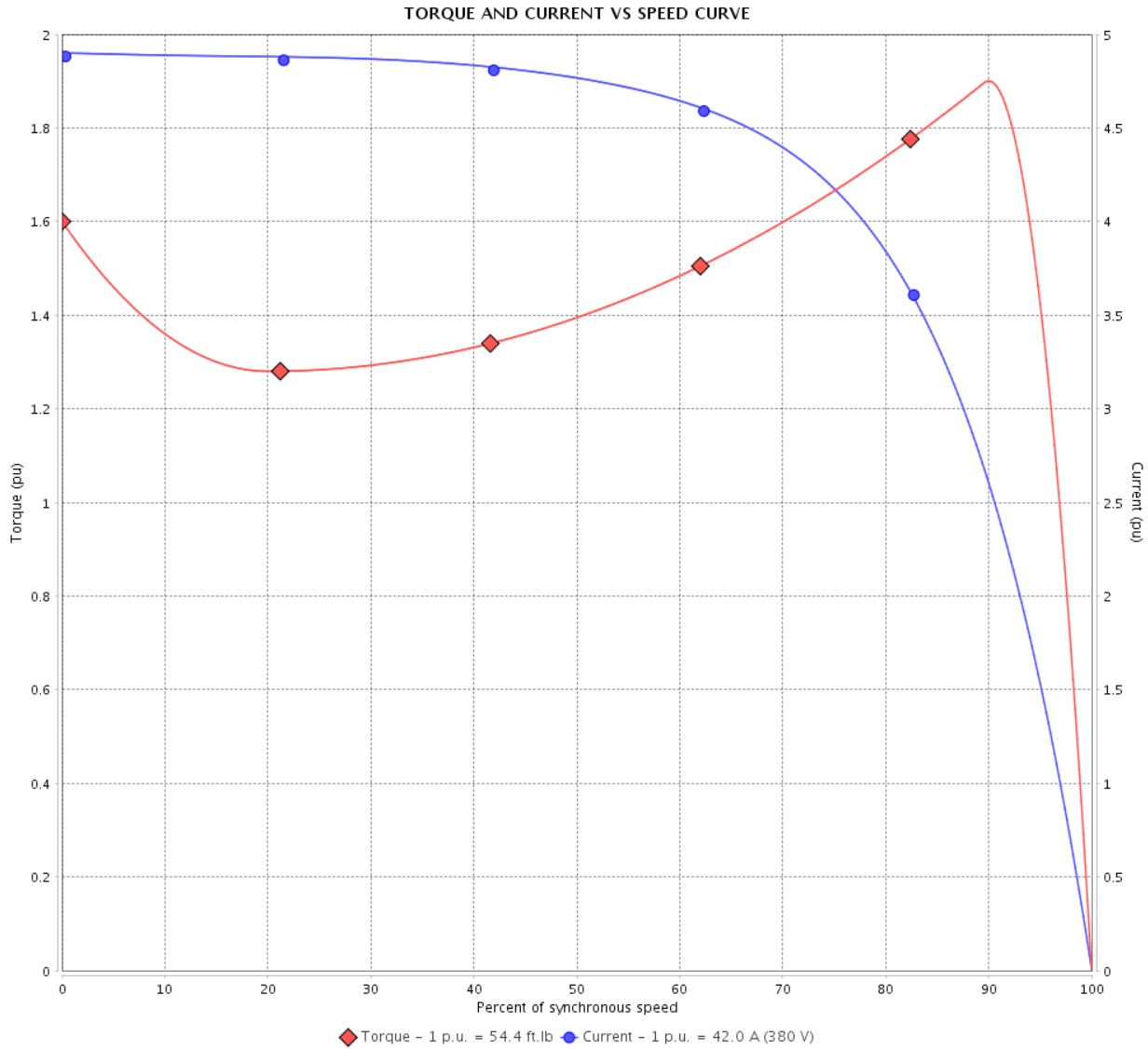


Customer :

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Catalog # : 03036ET3E286TSC-W22



Performance : 380 V 50 Hz 2P

Rated current	: 42.0 A	Moment of inertia (J)	: 3.37 sq.ft.lb
LRC	: 4.9	Duty cycle	: Cont.(S1)
Rated torque	: 54.4 ft.lb	Insulation class	: F
Locked rotor torque	: 160 %	Service factor	: 1.00
Breakdown torque	: 190 %	Temperature rise	: 105 K
Rated speed	: 2895 rpm	Design	: B

Locked rotor time : 21s (cold) 12s (hot)

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TORQUE AND CURRENT VS SPEED CURVE



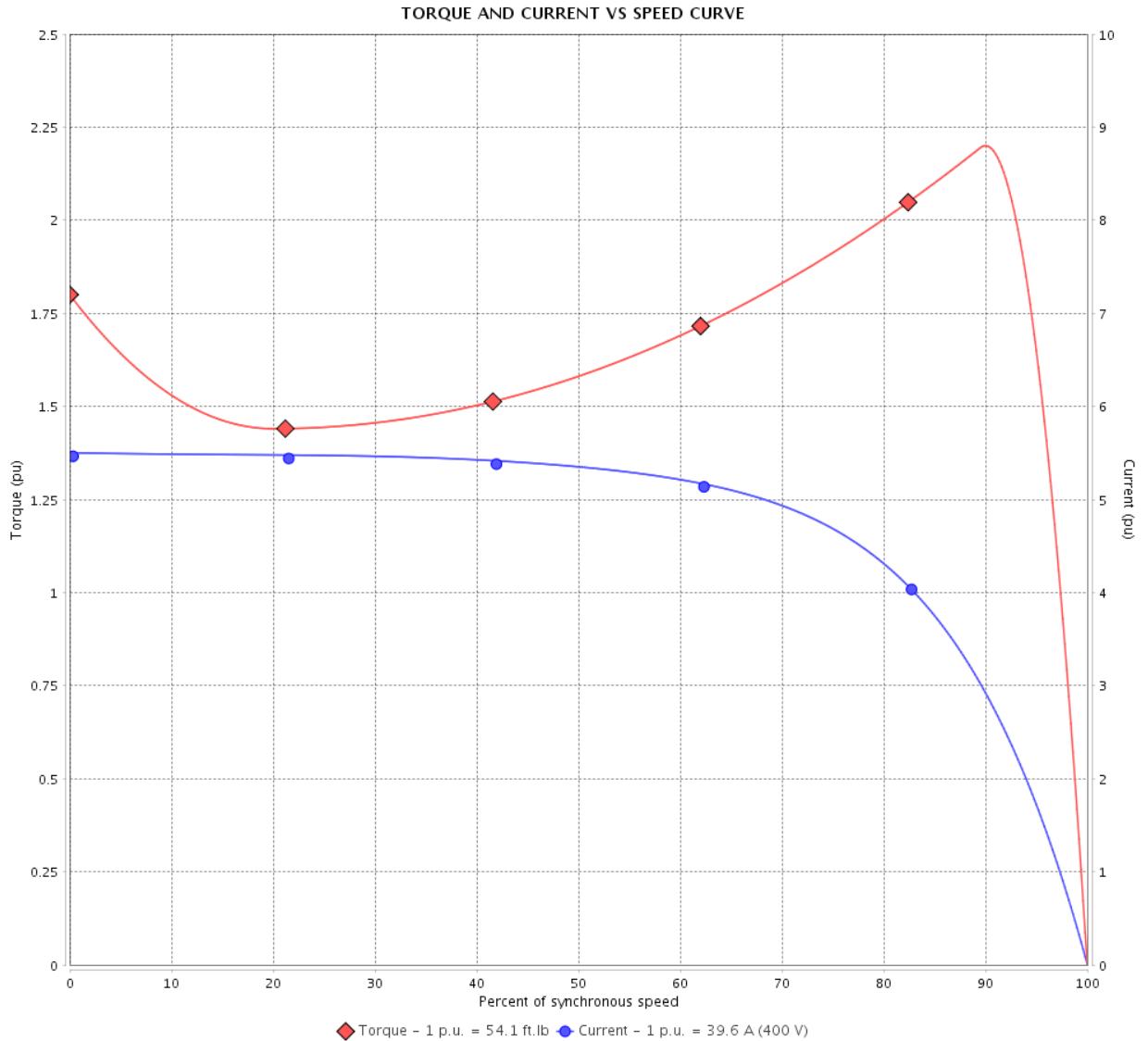
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Performance : 400 V 50 Hz 2P IE1

Rated current	: 39.6 A	Moment of inertia (J)	: 3.37 sq.ft.lb
LRC	: 5.5	Duty cycle	: Cont.(S1)
Rated torque	: 54.1 ft.lb	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.00
Breakdown torque	: 220 %	Temperature rise	: 105 K
Rated speed	: 2910 rpm	Design	: B

Locked rotor time : 21s (cold) 12s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

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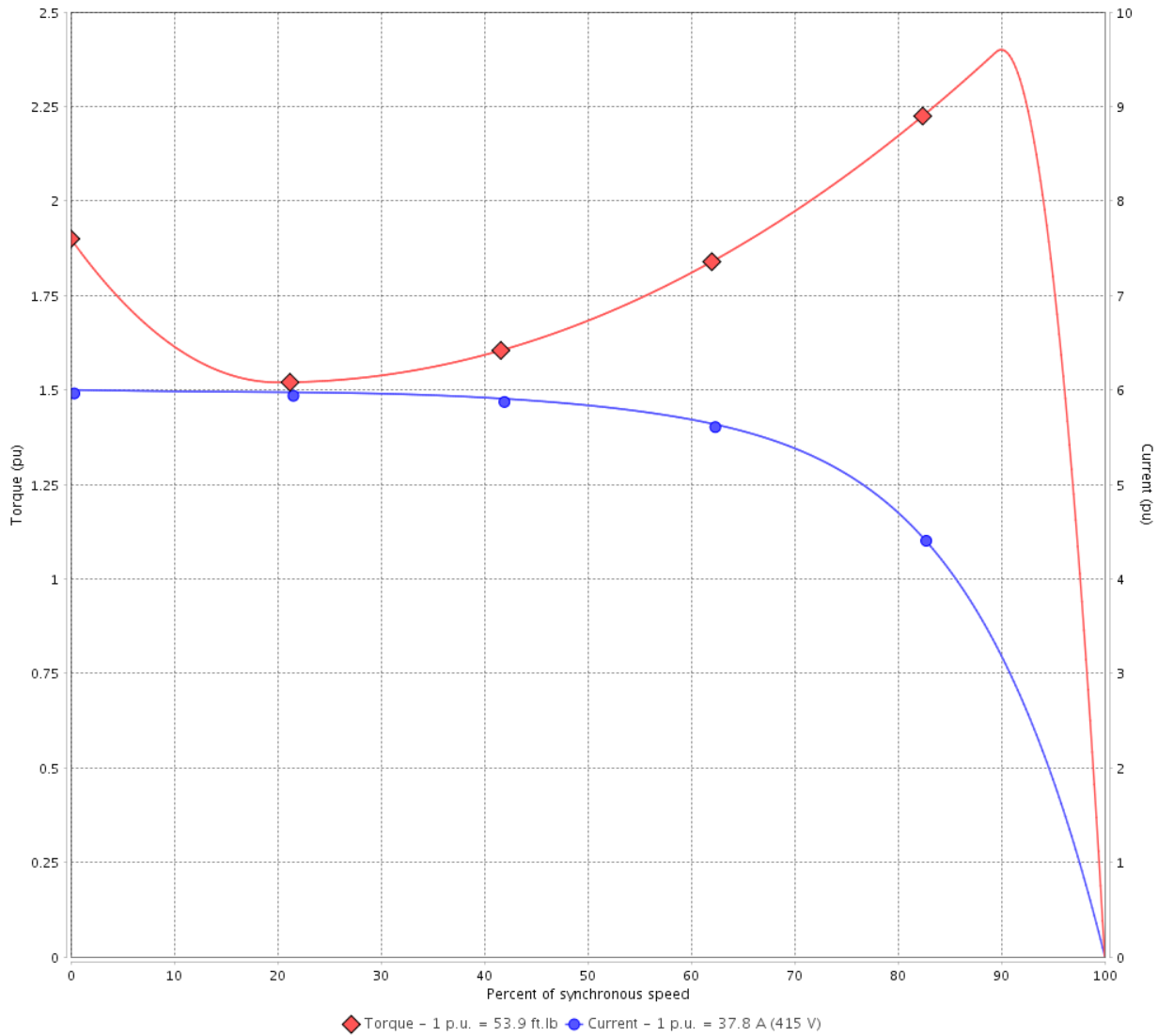
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TORQUE AND CURRENT VS SPEED CURVE



Performance : 415 V 50 Hz 2P IE1

Rated current	: 37.8 A	Moment of inertia (J)	: 3.37 sq.ft.lb
LRC	: 6.0	Duty cycle	: Cont.(S1)
Rated torque	: 53.9 ft.lb	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 240 %	Temperature rise	: 105 K
Rated speed	: 2925 rpm	Design	: B

Locked rotor time : 21s (cold) 12s (hot)

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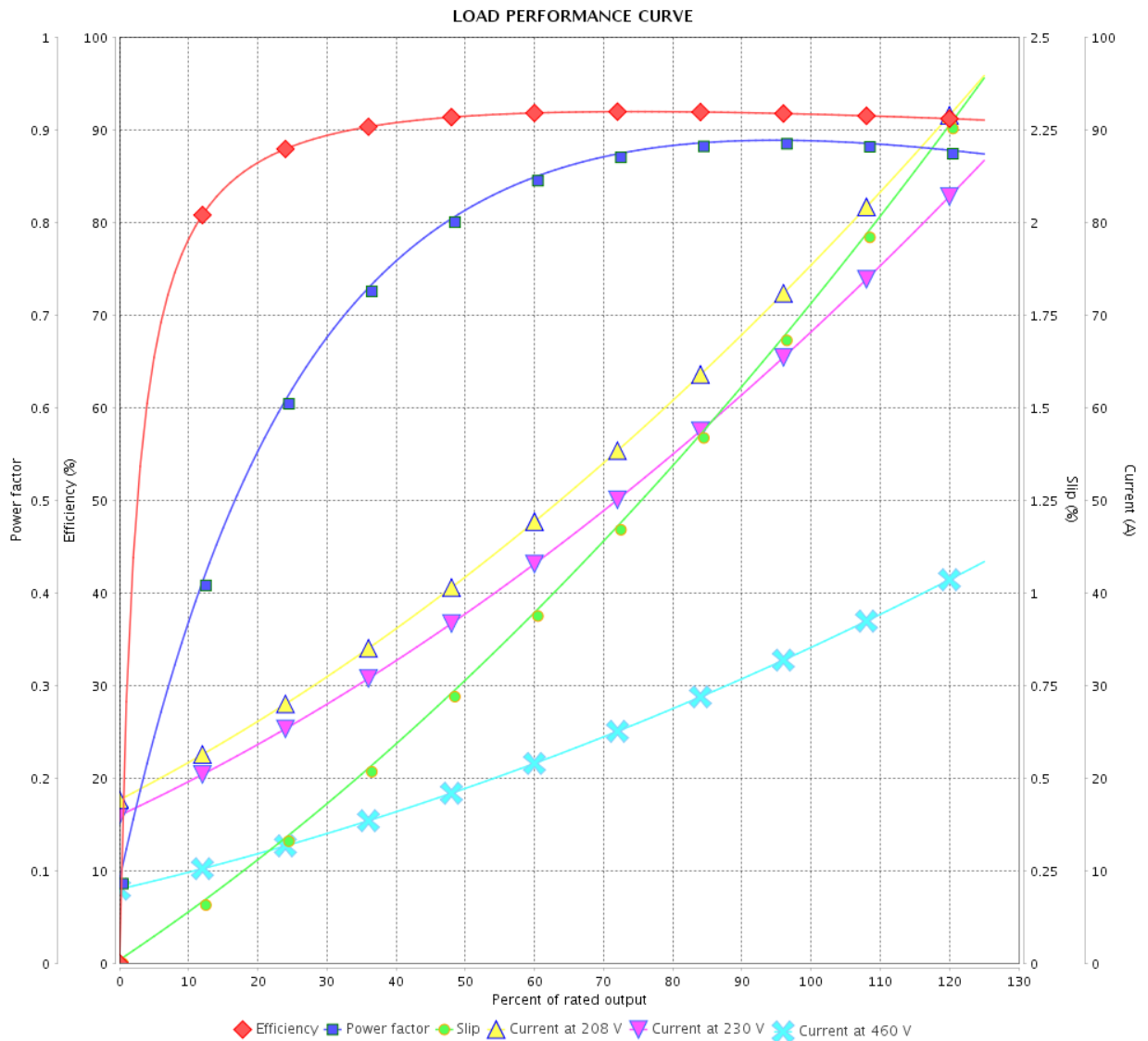


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Product code : 11440288

Catalog # : 03036ET3E286TSC-W22



Performance : 230/460 V 60 Hz 2P

Rated current : 67.6/33.8 A
 LRC : 6.3
 Rated torque : 44.6 ft.lb
 Locked rotor torque : 200 %
 Breakdown torque : 250 %
 Rated speed : 3535 rpm

Moment of inertia (J) : 3.37 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



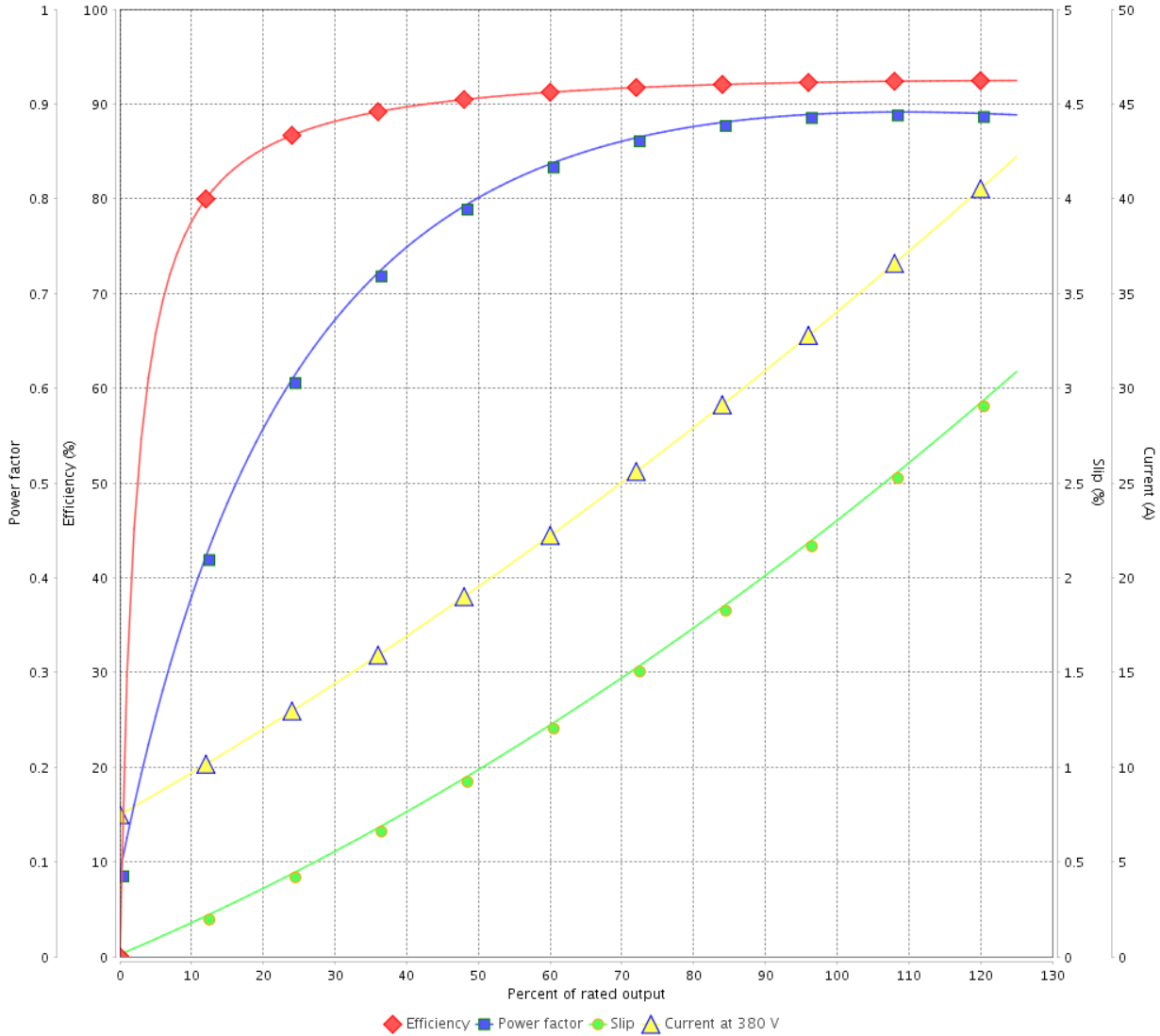
Customer :

Product line : NEMA Premium Efficiency Three-Phase

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Performance : 380 V 50 Hz 2P IE3

Rated current : 34.2 A
 LRC : 5.9
 Rated torque : 44.8 ft.lb
 Locked rotor torque : 190 %
 Breakdown torque : 229 %
 Rated speed : 2930 rpm

Moment of inertia (J) : 3.37 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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Three Phase Induction Motor - Squirrel Cage

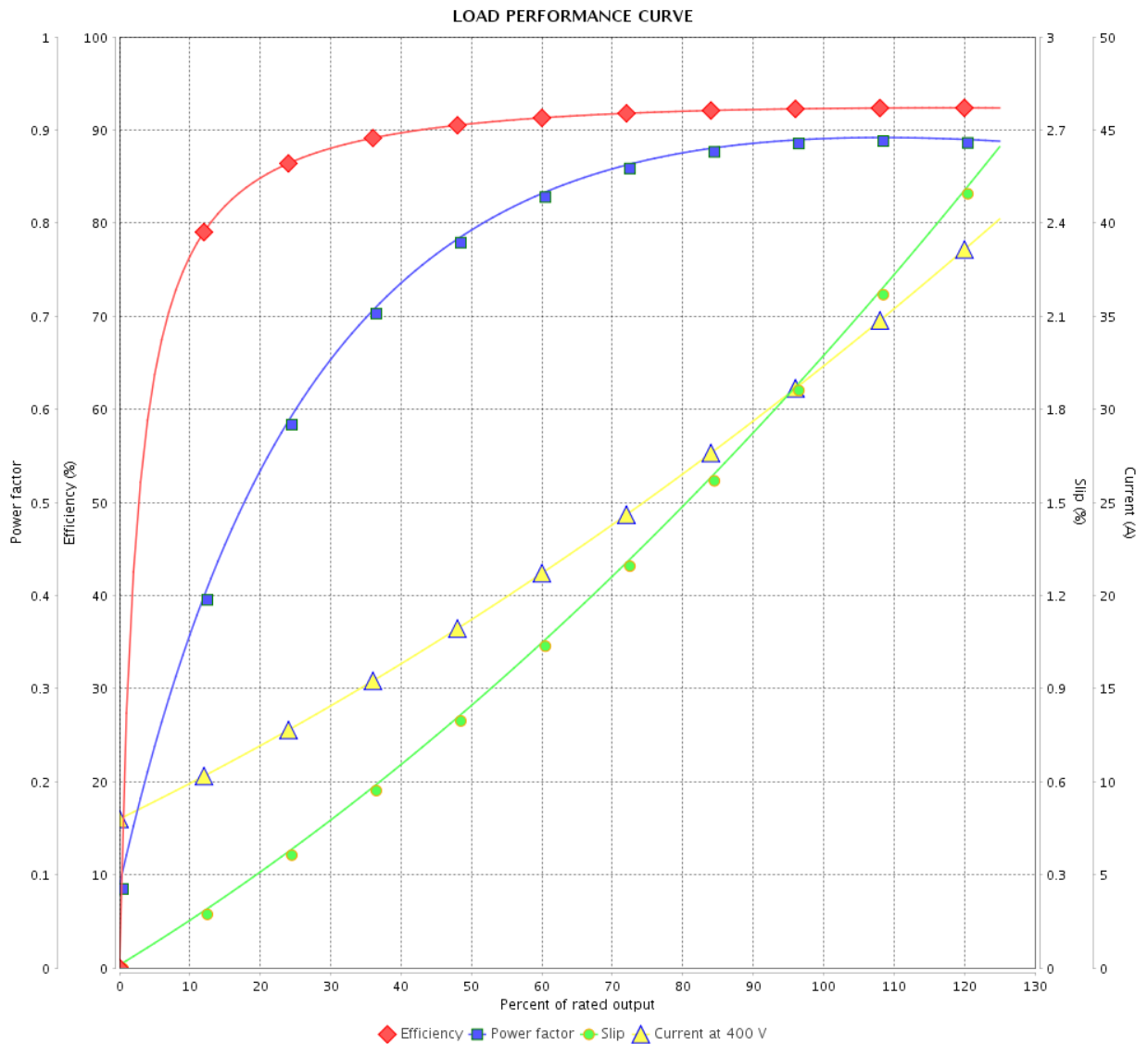


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Performance : 400 V 50 Hz 2P IE3

Rated current : 32.5 A
 LRC : 6.7
 Rated torque : 44.7 ft.lb
 Locked rotor torque : 220 %
 Breakdown torque : 270 %
 Rated speed : 2940 rpm

Moment of inertia (J) : 3.37 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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Three Phase Induction Motor - Squirrel Cage



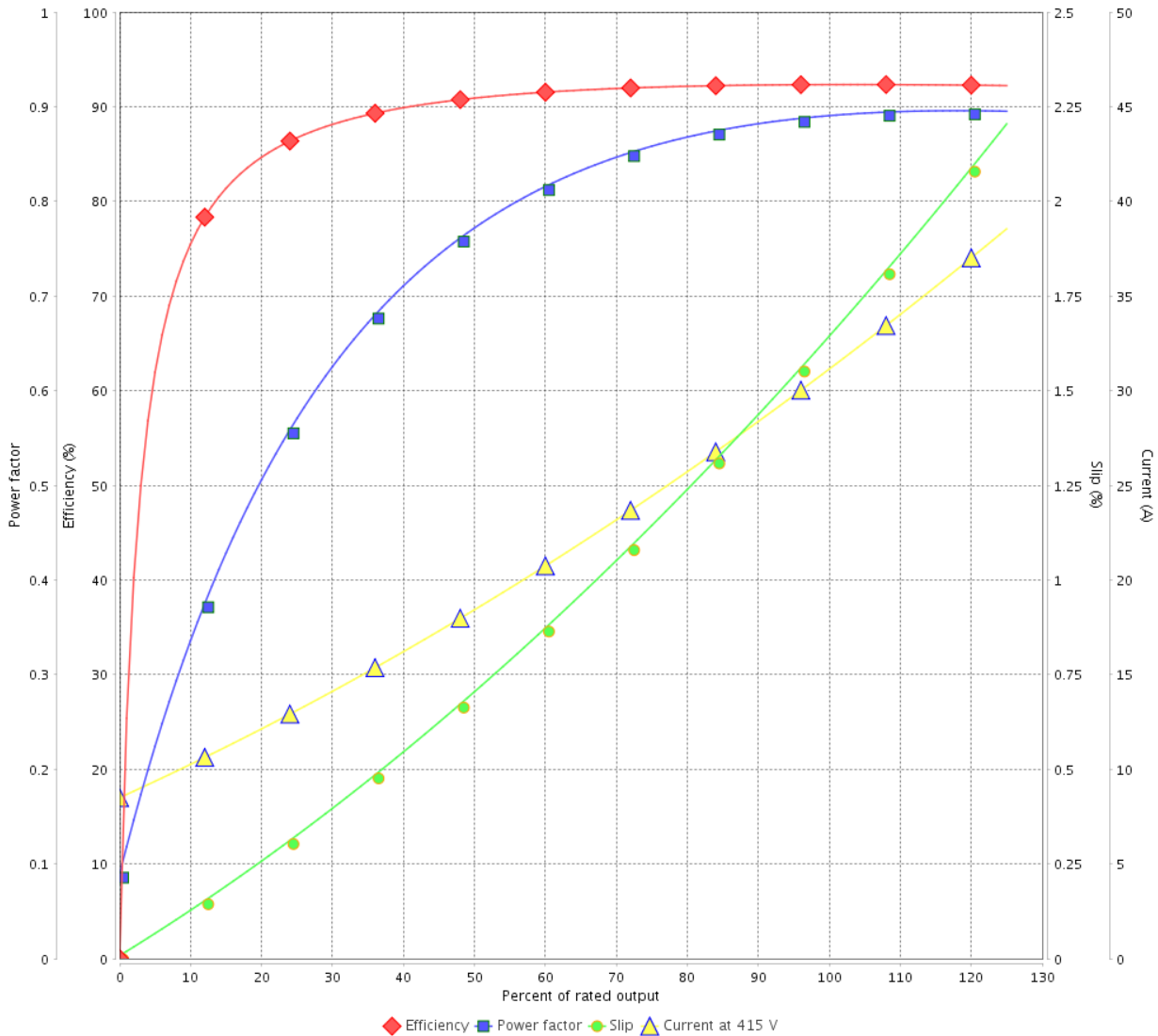
Customer :

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Performance : 415 V 50 Hz 2P IE3

Rated current : 31.3 A
 LRC : 7.2
 Rated torque : 44.5 ft.lb
 Locked rotor torque : 229 %
 Breakdown torque : 290 %
 Rated speed : 2950 rpm

Moment of inertia (J) : 3.37 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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Three Phase Induction Motor - Squirrel Cage

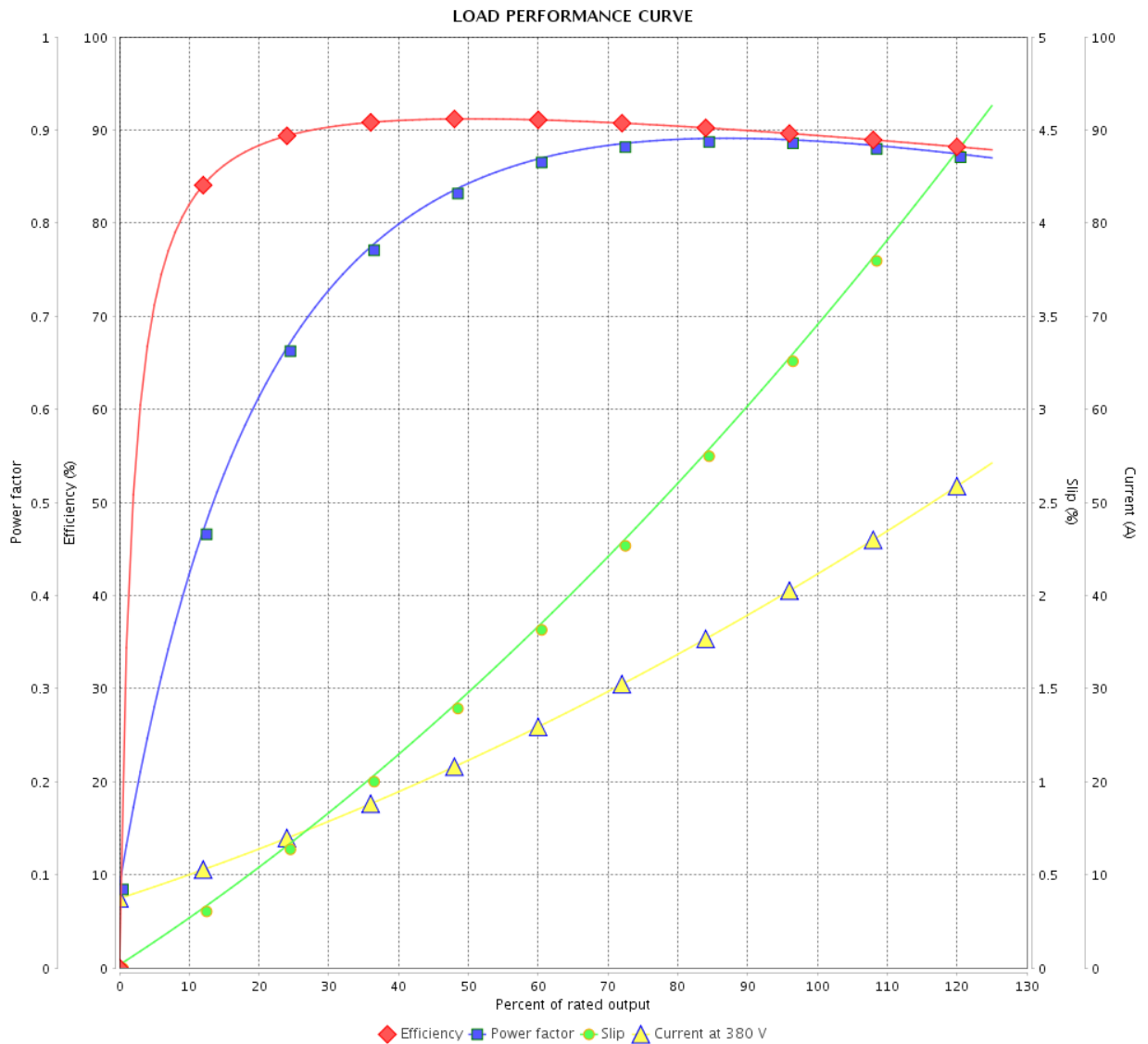


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11440288

Catalog # : 03036ET3E286TSC-W22



Performance : 380 V 50 Hz 2P

Rated current : 42.0 A
 LRC : 4.9
 Rated torque : 54.4 ft.lb
 Locked rotor torque : 160 %
 Breakdown torque : 190 %
 Rated speed : 2895 rpm

Moment of inertia (J) : 3.37 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : B

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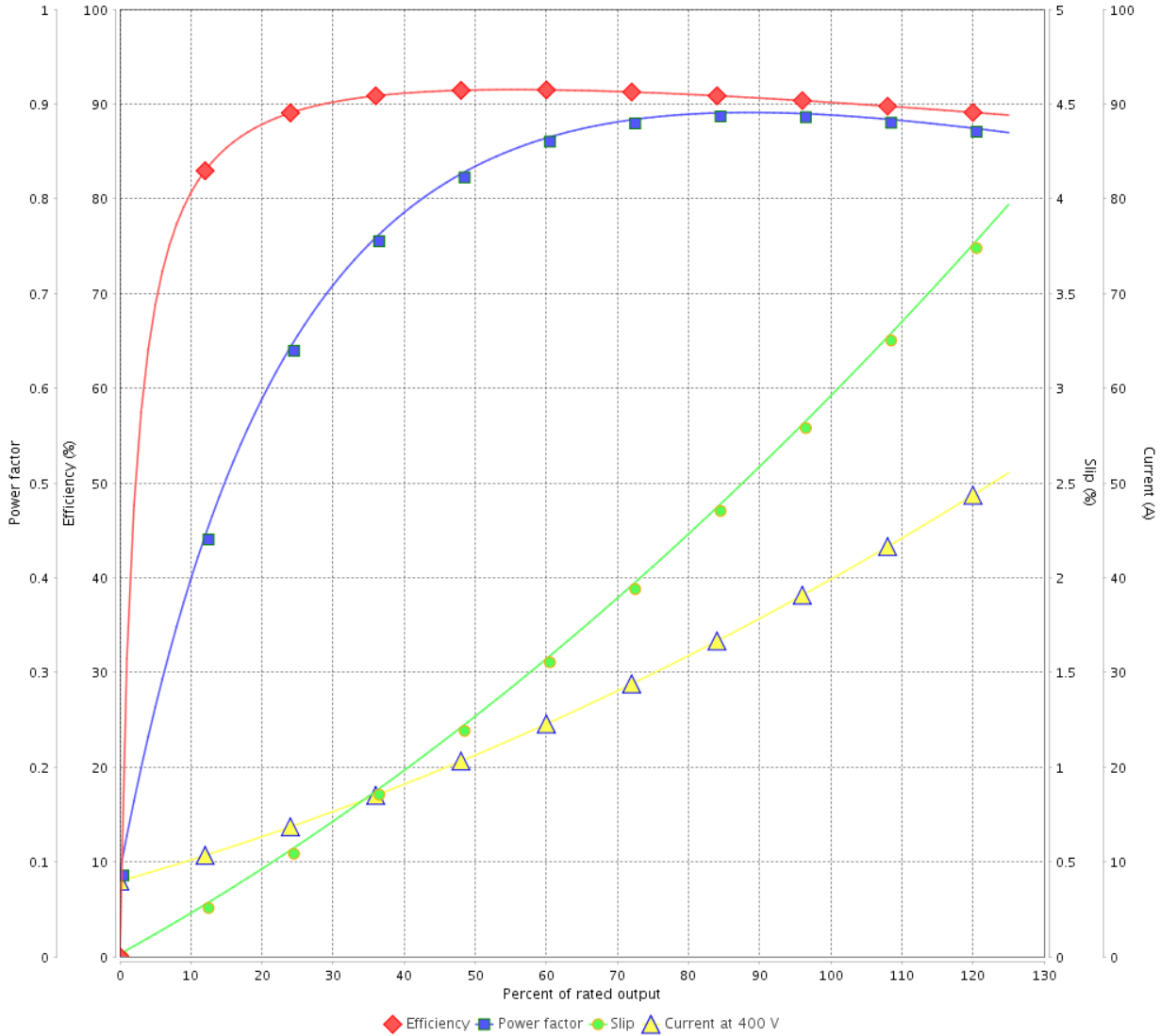
Customer : _____

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Performance : 400 V 50 Hz 2P IE1

Rated current : 39.6 A
 LRC : 5.5
 Rated torque : 54.1 ft.lb
 Locked rotor torque : 180 %
 Breakdown torque : 220 %
 Rated speed : 2910 rpm

Moment of inertia (J) : 3.37 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : B

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Three Phase Induction Motor - Squirrel Cage

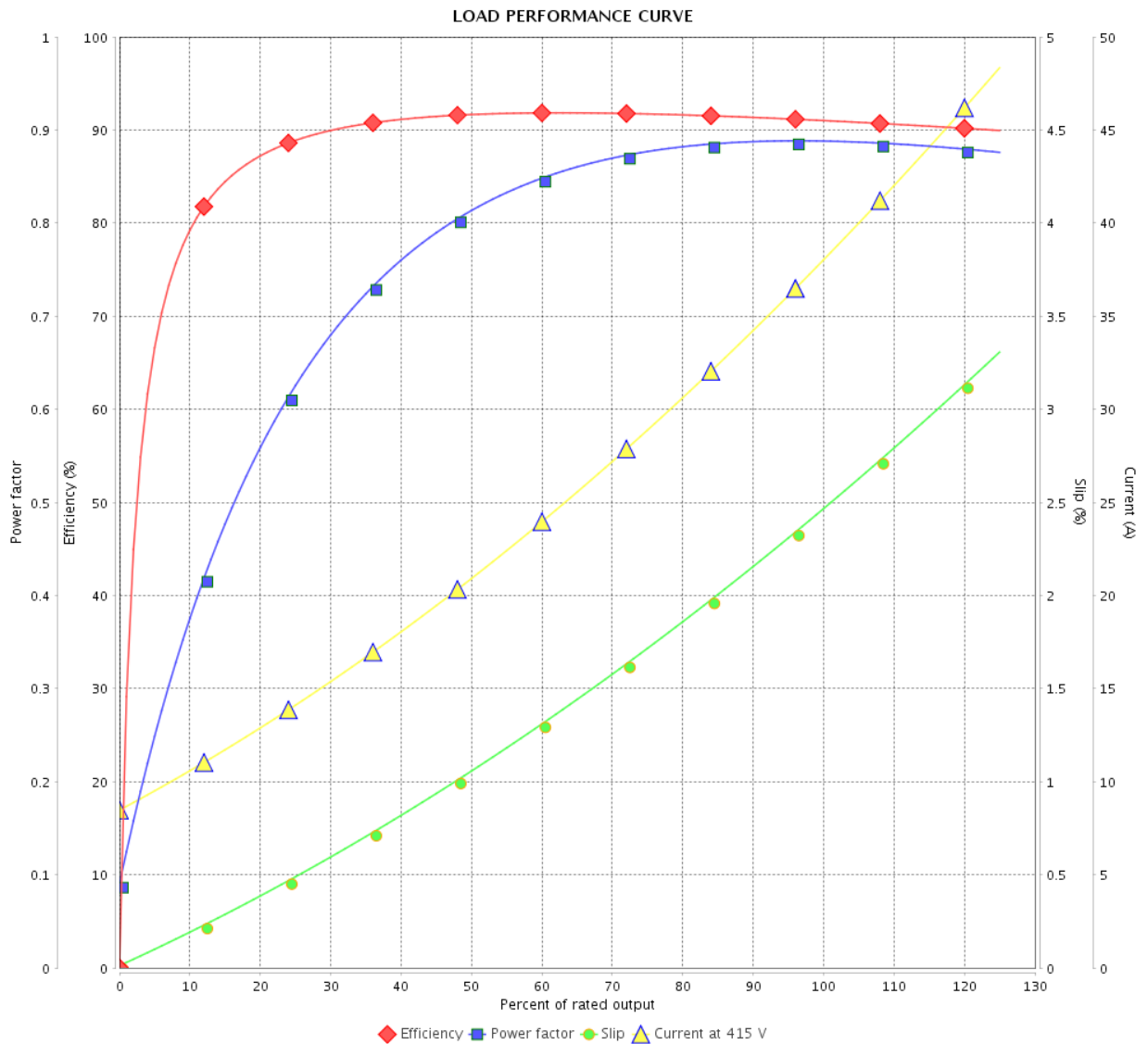


Customer : _____

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11440288

Catalog # : 03036ET3E286TSC-W22



Performance : 415 V 50 Hz 2P IE1

Rated current : 37.8 A
 LRC : 6.0
 Rated torque : 53.9 ft.lb
 Locked rotor torque : 190 %
 Breakdown torque : 240 %
 Rated speed : 2925 rpm

Moment of inertia (J) : 3.37 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 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 : 11440288
Catalog # : 03036ET3E286TSC-W22

Performance : 230/460 V 60 Hz 2P

Rated current	: 67.6/33.8 A	Moment of inertia (J)	: 3.37 sq.ft.lb
LRC	: 6.3	Duty cycle	: Cont.(S1)
Rated torque	: 44.6 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.25
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 3535 rpm	Design	: B

Heating constant

Cooling constant

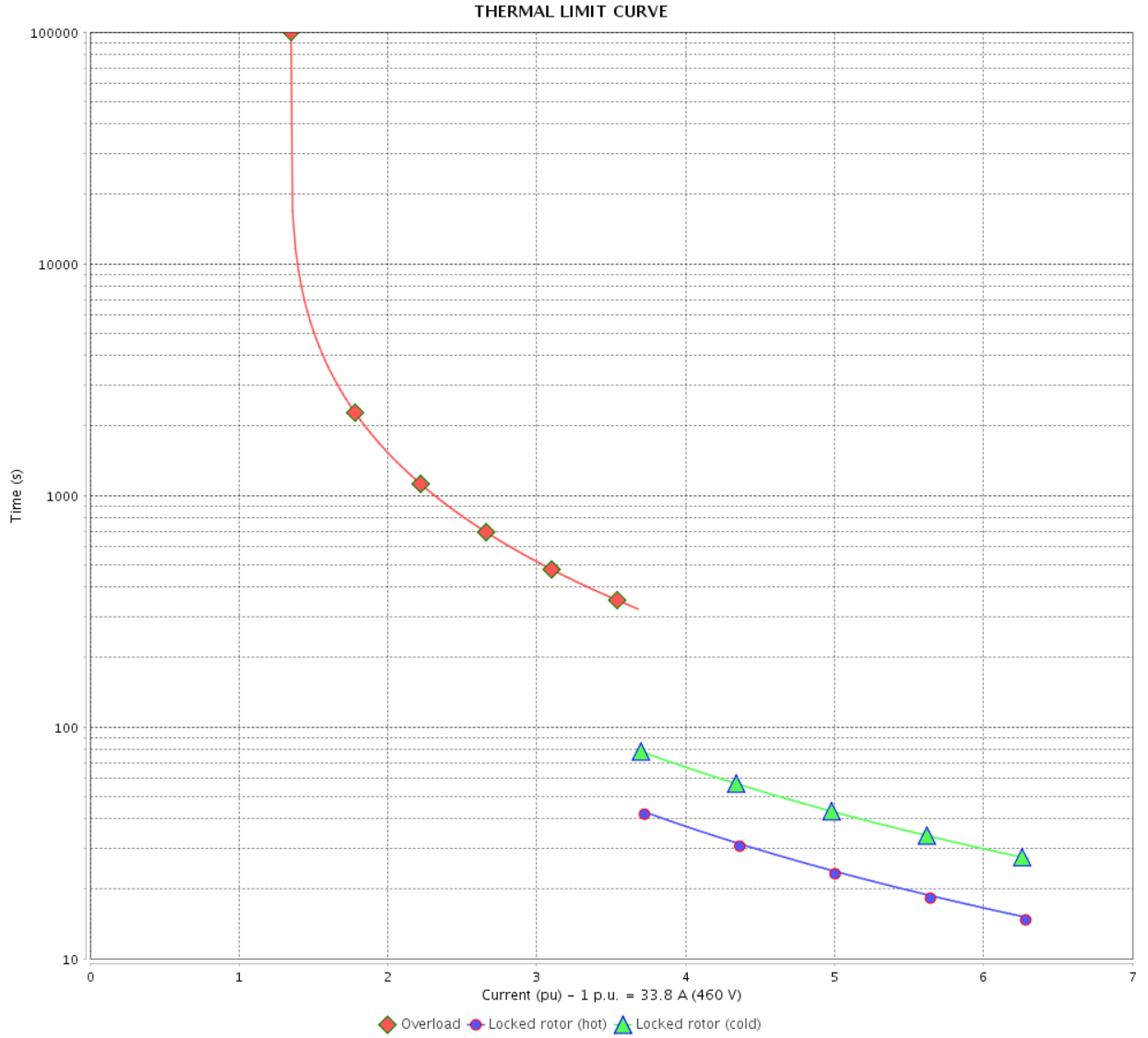
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THERMAL LIMIT CURVE

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Customer :

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Product code : 11440288
Catalog # : 03036ET3E286TSC-W22

Performance : 380 V 50 Hz 2P IE3

Rated current	: 34.2 A	Moment of inertia (J)	: 3.37 sq.ft.lb
LRC	: 5.9	Duty cycle	: Cont.(S1)
Rated torque	: 44.8 ft.lb	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 229 %	Temperature rise	: 80 K
Rated speed	: 2930 rpm	Design	: B

Heating constant

Cooling constant

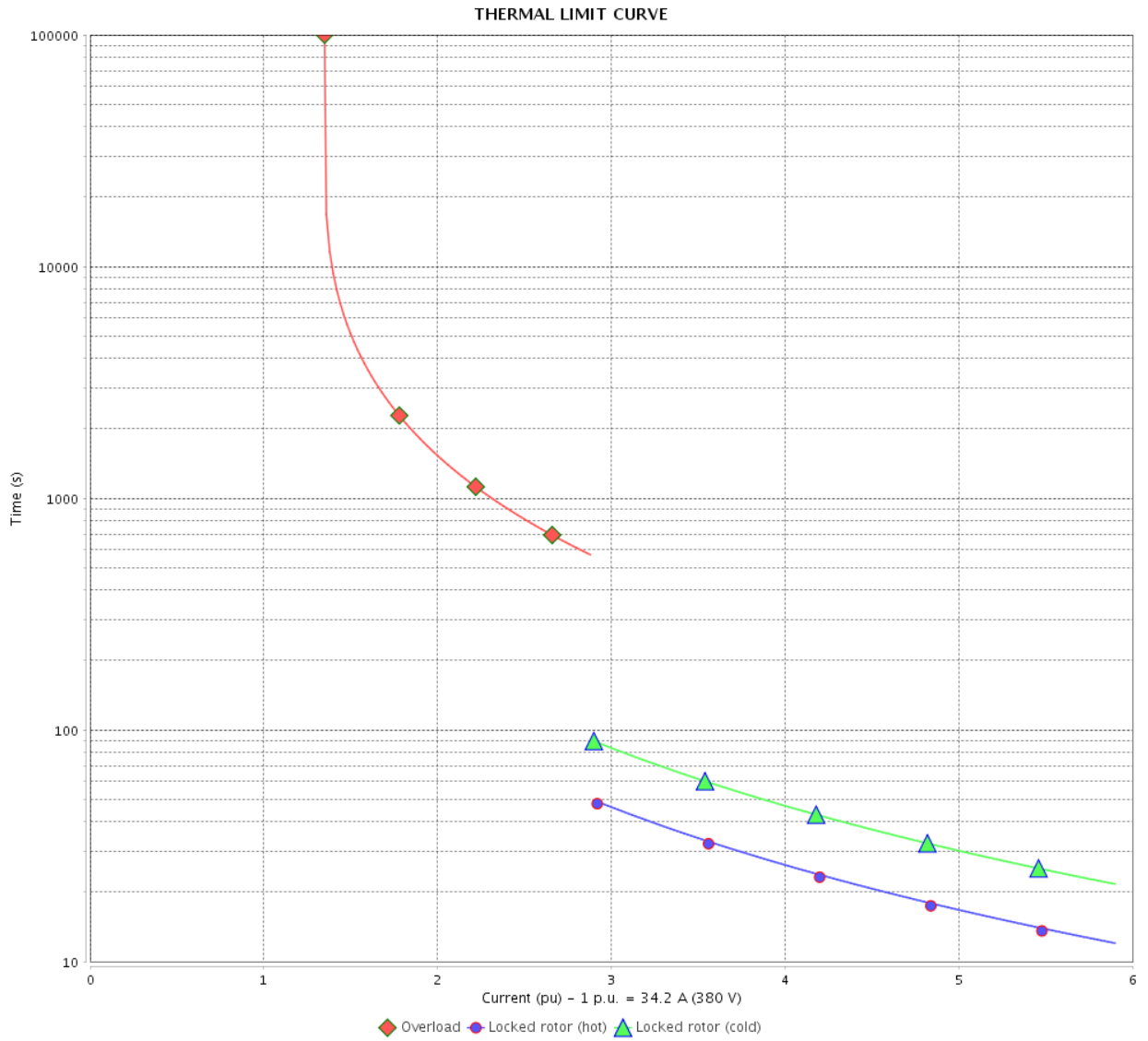
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Performance : 400 V 50 Hz 2P IE3

Rated current	: 32.5 A	Moment of inertia (J)	: 3.37 sq.ft.lb
LRC	: 6.7	Duty cycle	: Cont.(S1)
Rated torque	: 44.7 ft.lb	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.00
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 2940 rpm	Design	: B

Heating constant

Cooling constant

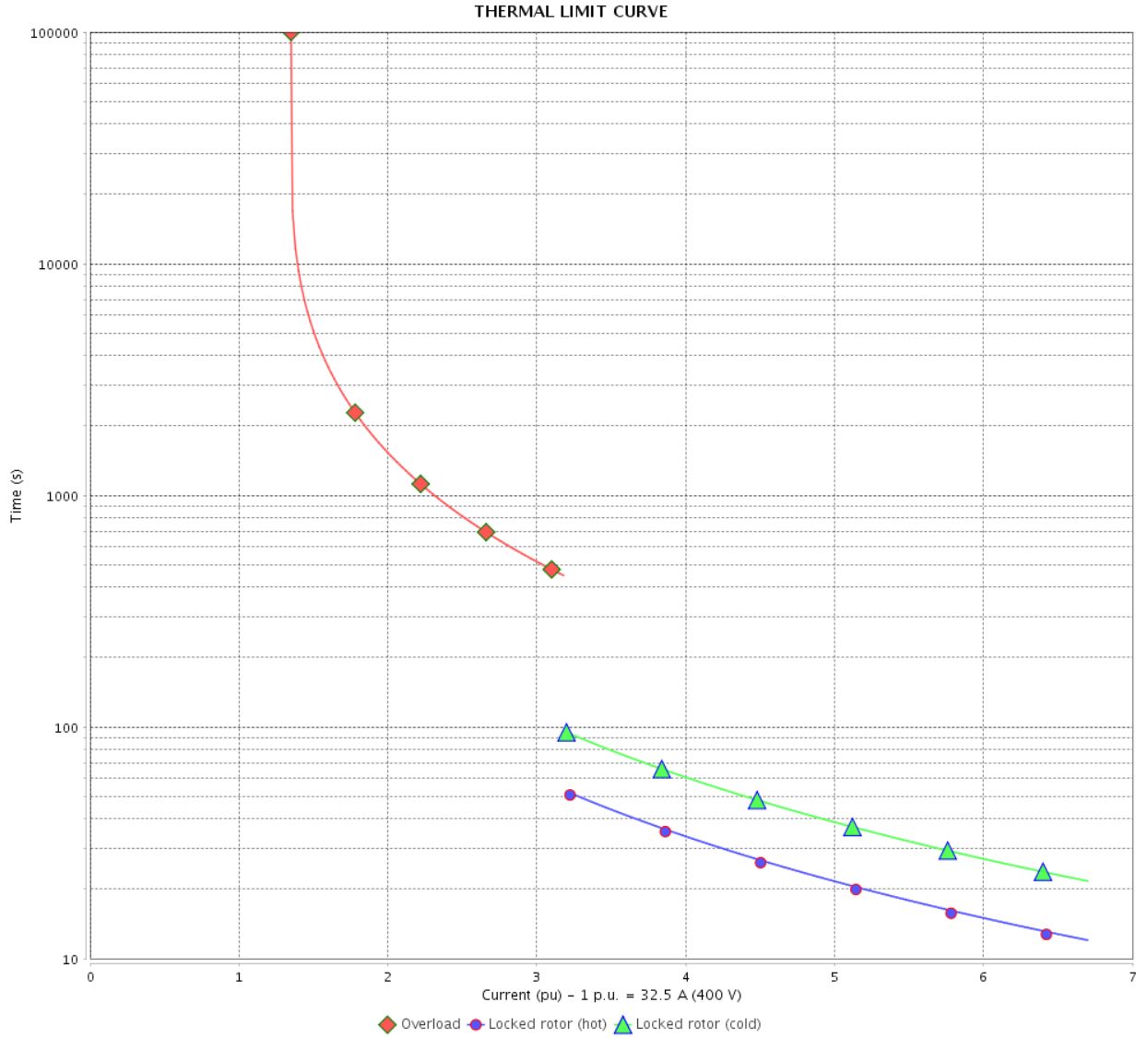
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Rated current : 31.3 A	Moment of inertia (J) : 3.37 sq.ft.lb
LRC : 7.2	Duty cycle : Cont.(S1)
Rated torque : 44.5 ft.lb	Insulation class : F
Locked rotor torque : 229 %	Service factor : 1.00
Breakdown torque : 290 %	Temperature rise : 80 K
Rated speed : 2950 rpm	Design : B

Heating constant

Cooling constant

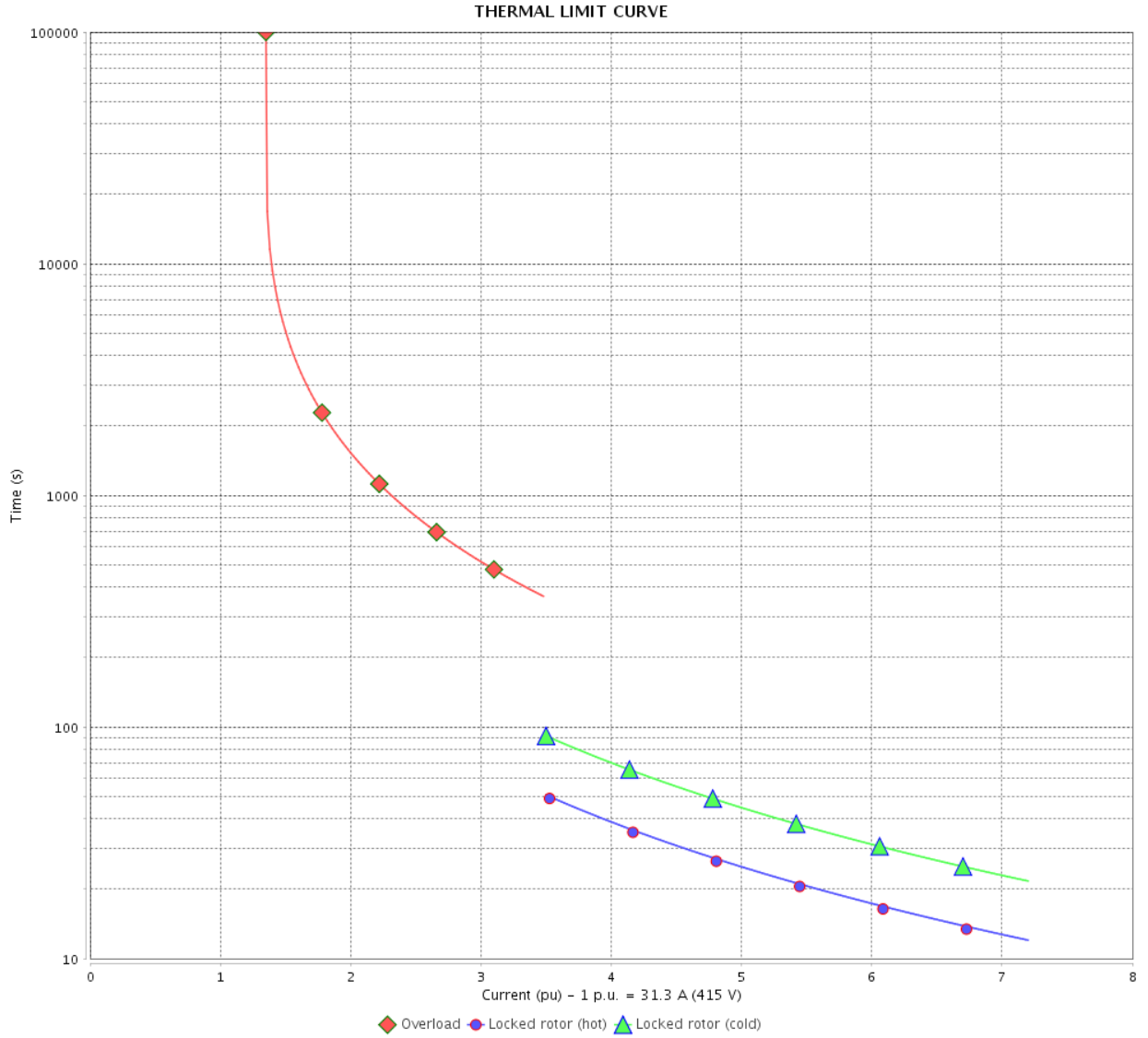
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THERMAL LIMIT CURVE

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Customer : _____



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Rated torque	: 54.4 ft.lb	Insulation class	: F
Locked rotor torque	: 160 %	Service factor	: 1.00
Breakdown torque	: 190 %	Temperature rise	: 105 K
Rated speed	: 2895 rpm	Design	: B

Heating constant

Cooling constant

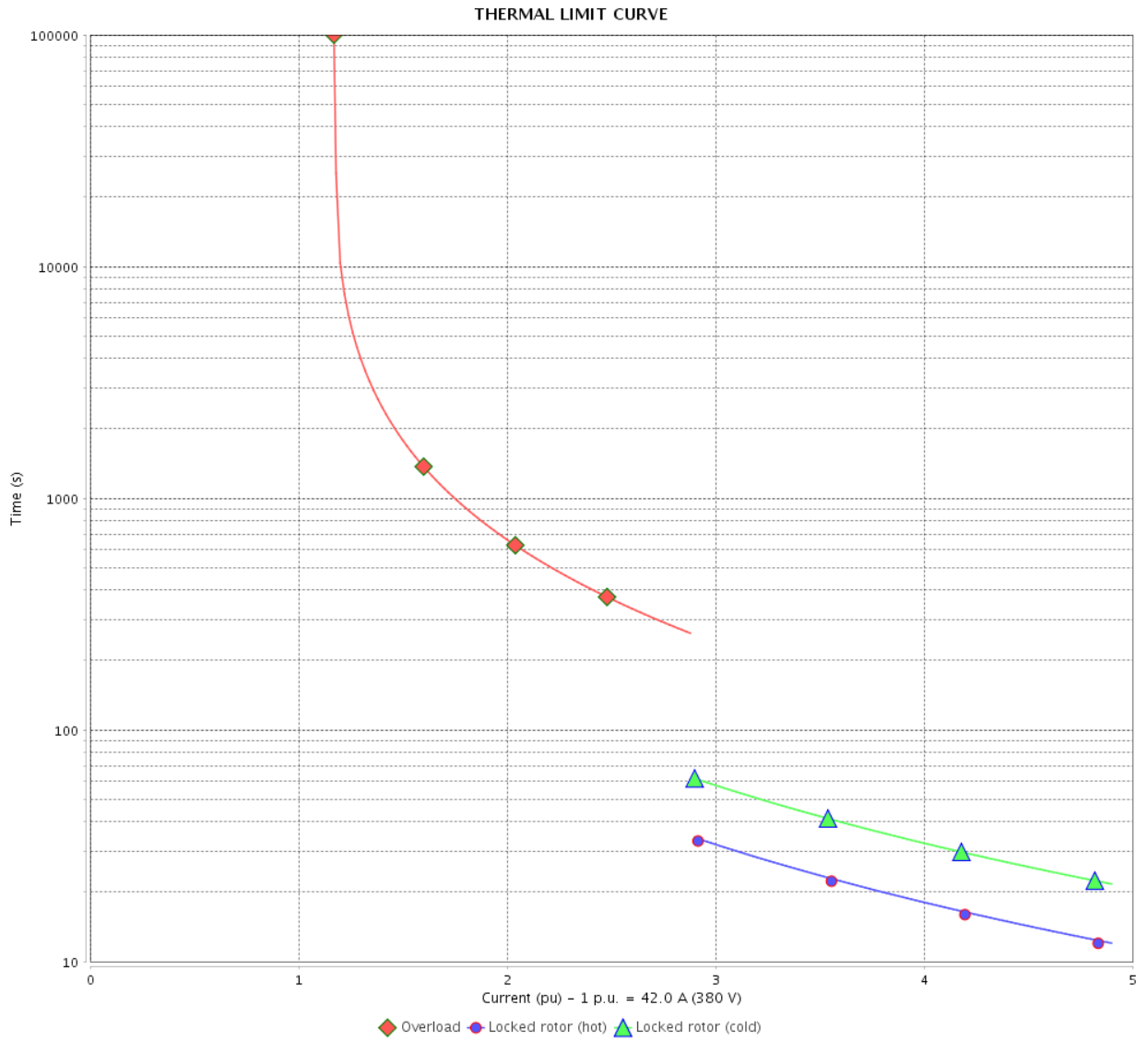
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Performance : 400 V 50 Hz 2P IE1

Rated current	: 39.6 A	Moment of inertia (J)	: 3.37 sq.ft.lb
LRC	: 5.5	Duty cycle	: Cont.(S1)
Rated torque	: 54.1 ft.lb	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.00
Breakdown torque	: 220 %	Temperature rise	: 105 K
Rated speed	: 2910 rpm	Design	: B

Heating constant

Cooling constant

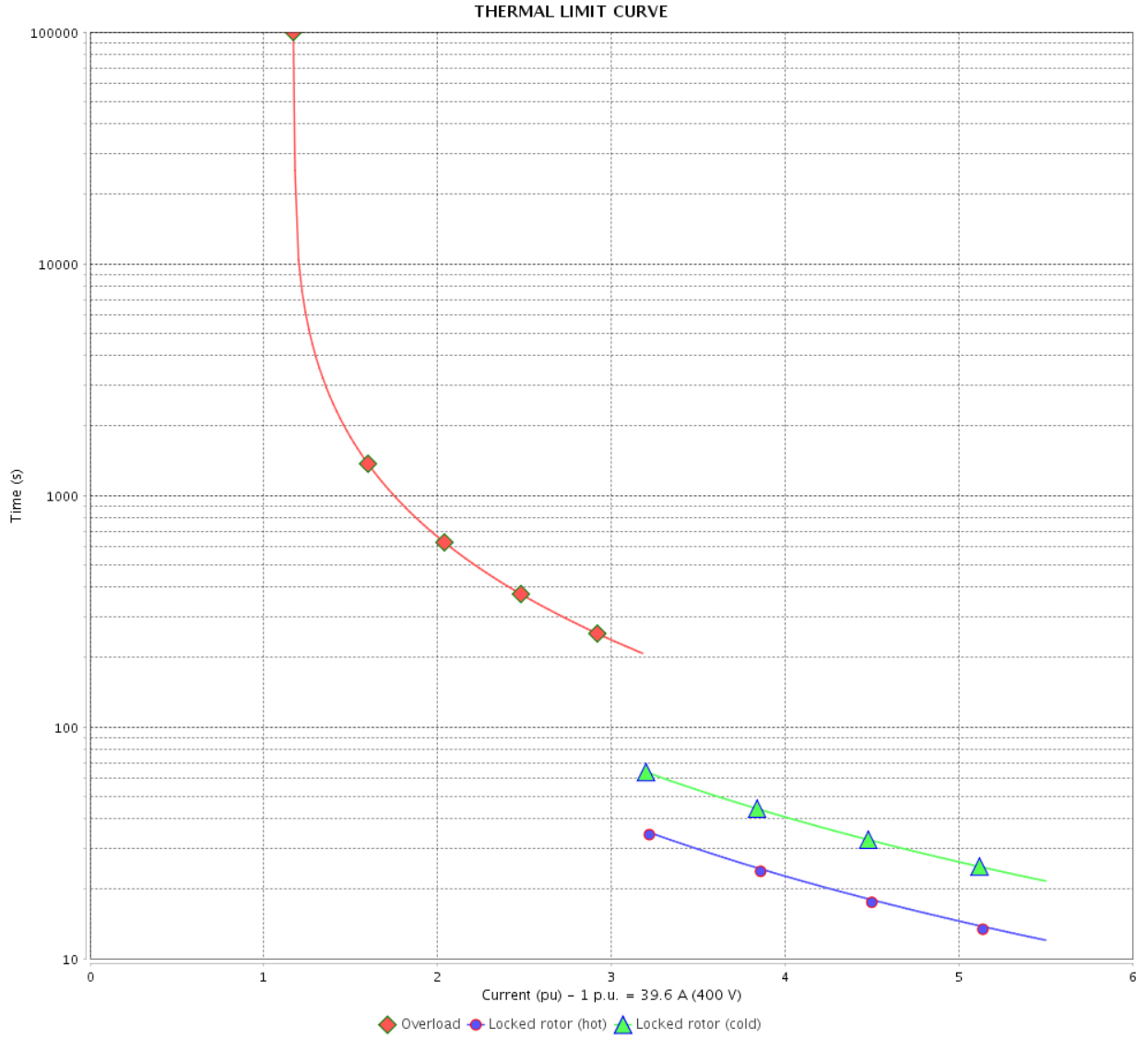
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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Performed by		Page		Revision
Checked by		27 / 36		
Date		14/04/2022		

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase
Product code : 11440288
Catalog # : 03036ET3E286TSC-W22

Performance : 415 V 50 Hz 2P IE1

Rated current	: 37.8 A	Moment of inertia (J)	: 3.37 sq.ft.lb
LRC	: 6.0	Duty cycle	: Cont.(S1)
Rated torque	: 53.9 ft.lb	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 240 %	Temperature rise	: 105 K
Rated speed	: 2925 rpm	Design	: B

Heating constant

Cooling constant

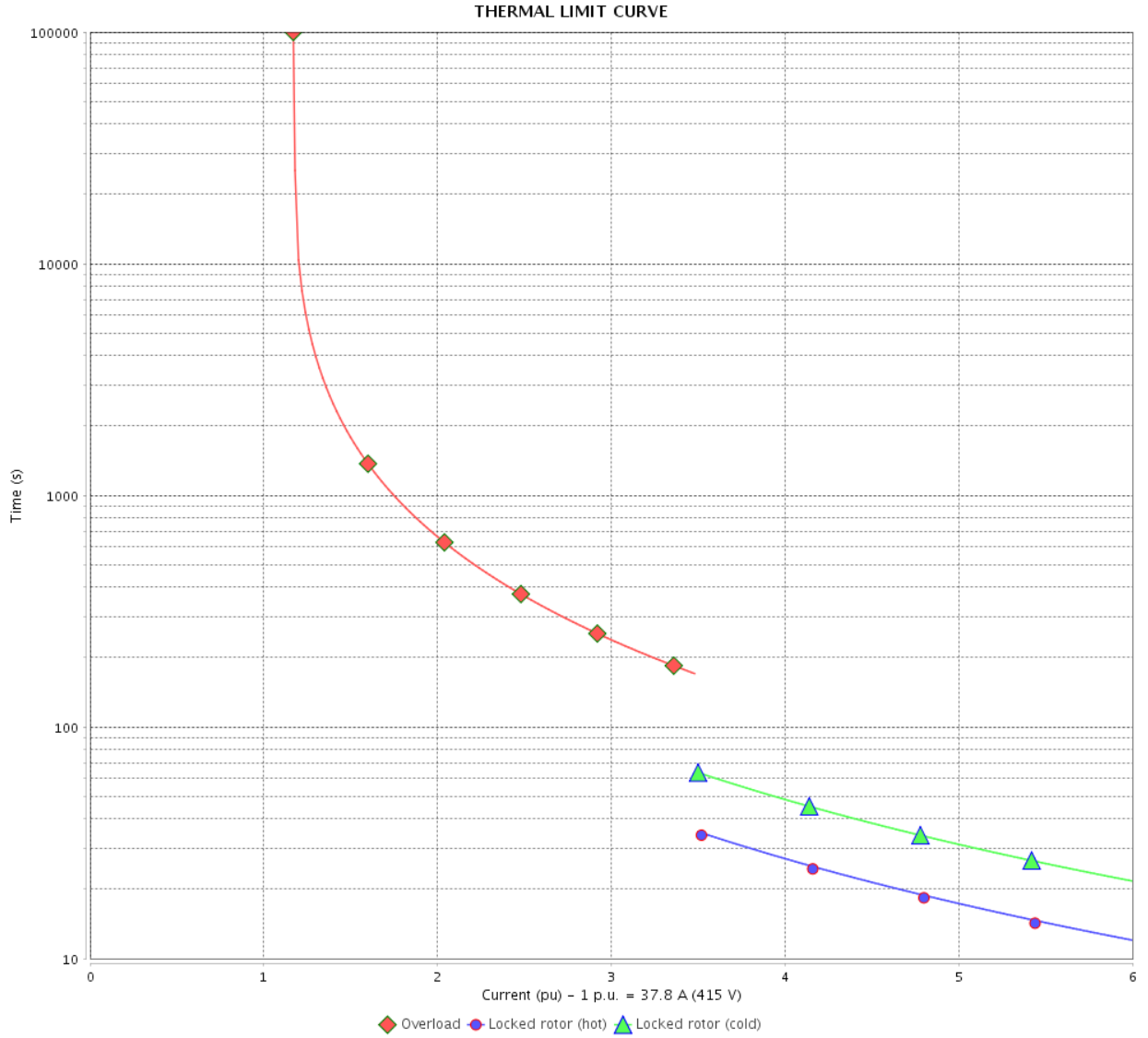
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	14/04/2022		28 / 36	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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Date				

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



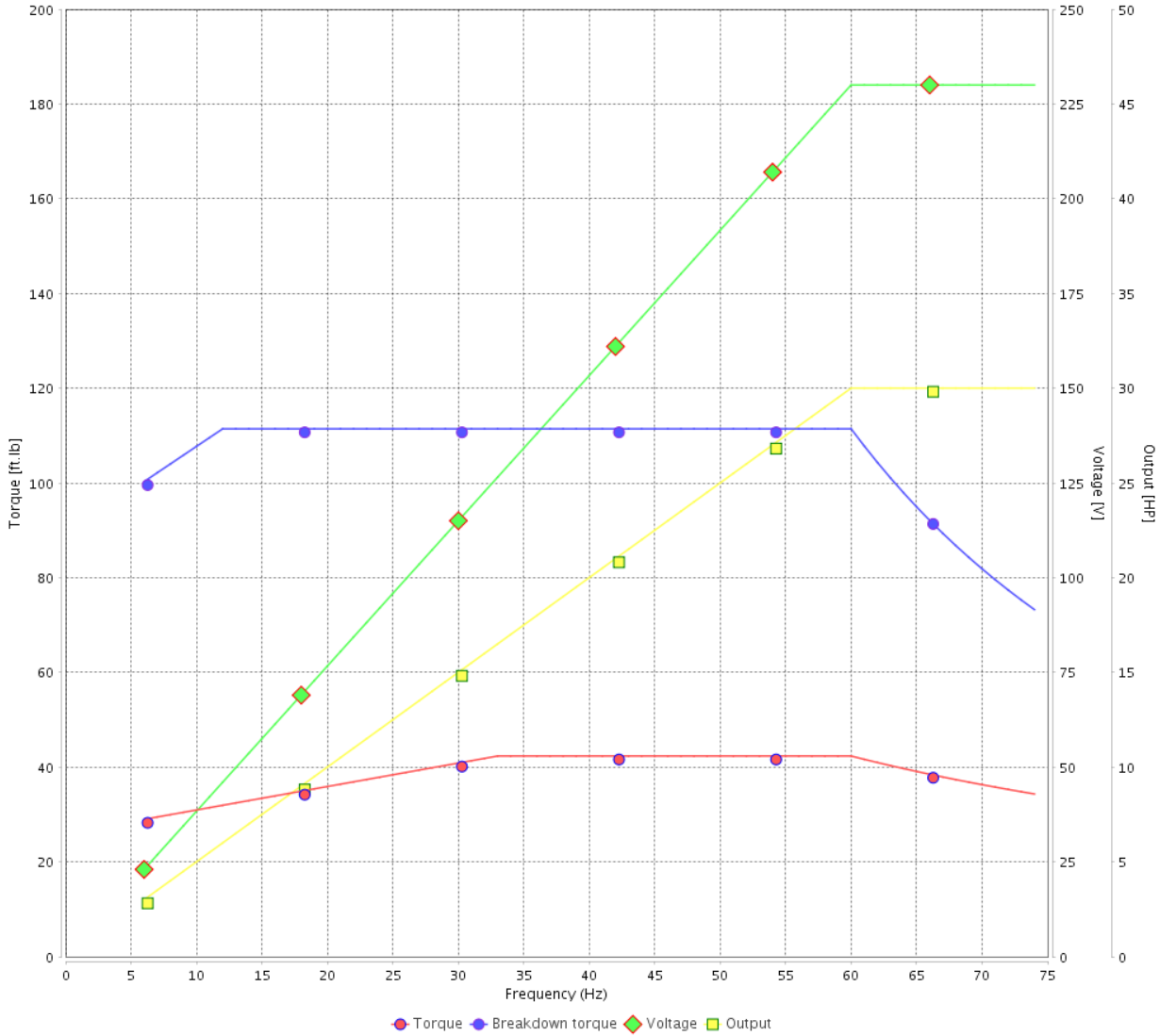
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11440288

Catalog # : 03036ET3E286TSC-W22

VFD OPERATION CURVE



Performance : 230/460 V 60 Hz 2P

Rated current : 67.6/33.8 A
 LRC : 6.3
 Rated torque : 44.6 ft.lb
 Locked rotor torque : 200 %
 Breakdown torque : 250 %
 Rated speed : 3535 rpm

Moment of inertia (J) : 3.37 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	14/04/2022			

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

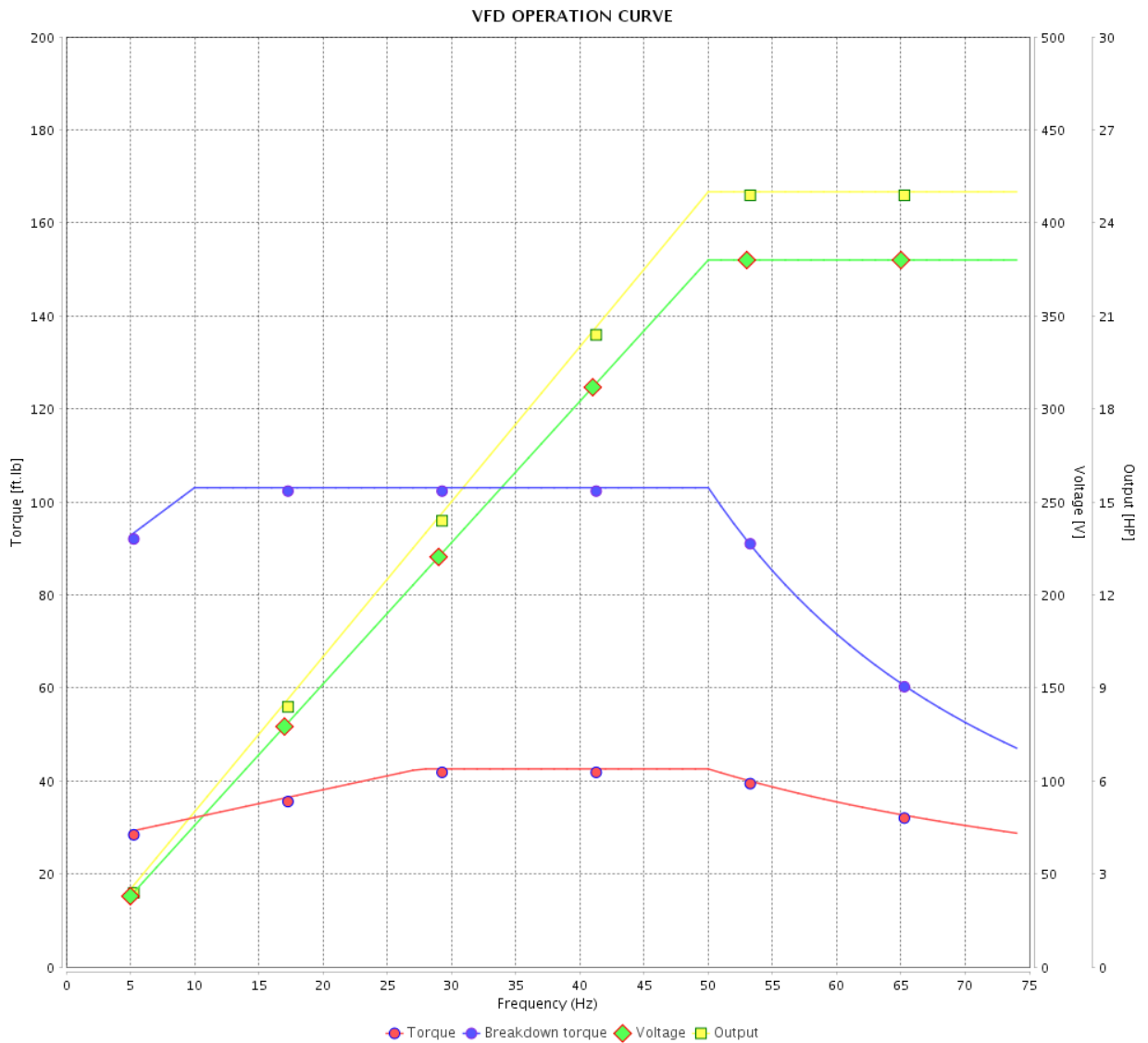


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11440288

Catalog # : 03036ET3E286TSC-W22



Performance : 380 V 50 Hz 2P IE3

Rated current : 34.2 A
 LRC : 5.9
 Rated torque : 44.8 ft.lb
 Locked rotor torque : 190 %
 Breakdown torque : 229 %
 Rated speed : 2930 rpm

Moment of inertia (J) : 3.37 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 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



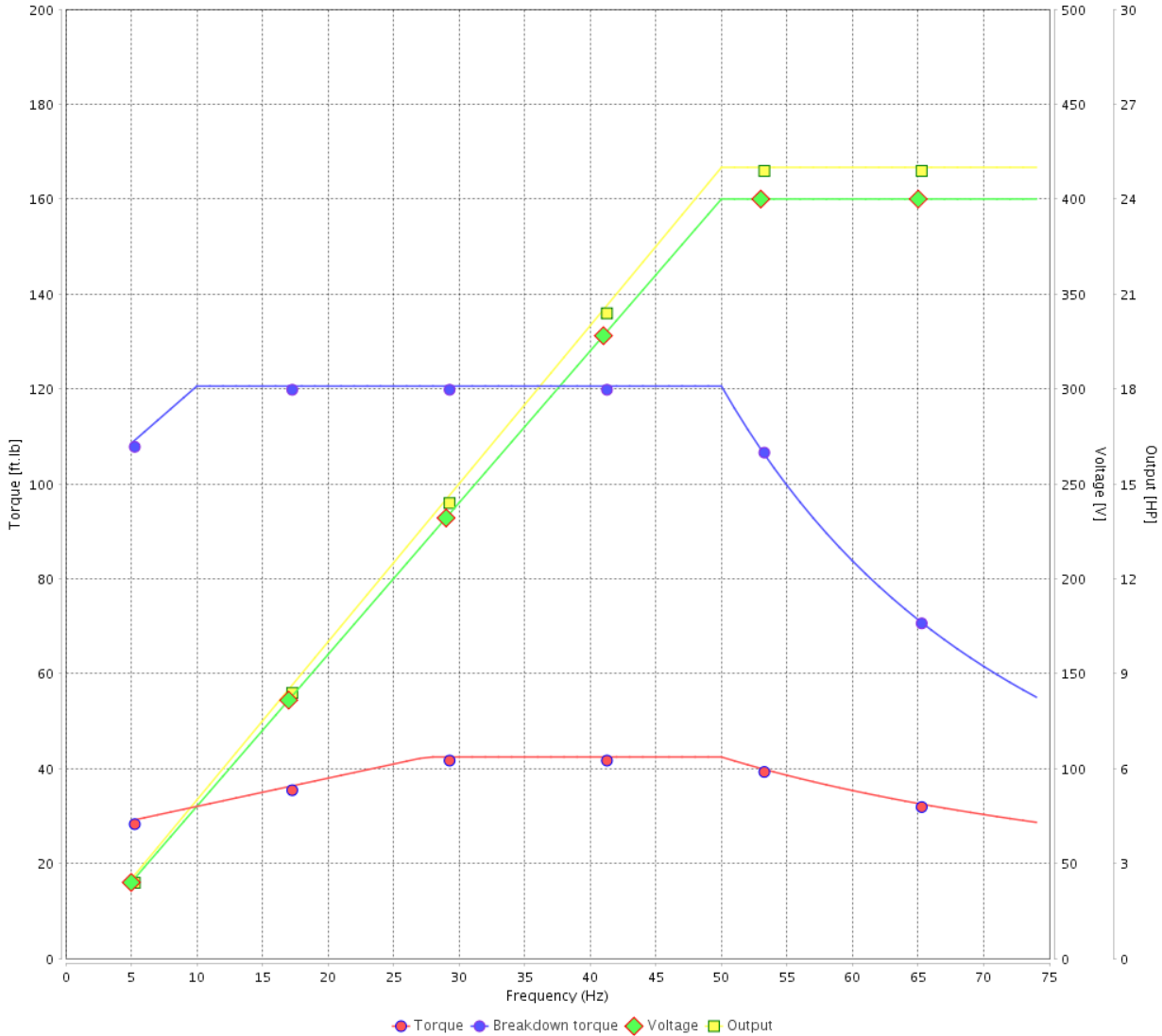
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11440288

Catalog # : 03036ET3E286TSC-W22

VFD OPERATION CURVE



Performance : 400 V 50 Hz 2P IE3

Rated current	: 32.5 A	Moment of inertia (J)	: 3.37 sq.ft.lb
LRC	: 6.7	Duty cycle	: Cont.(S1)
Rated torque	: 44.7 ft.lb	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.00
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 2940 rpm	Design	: B

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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

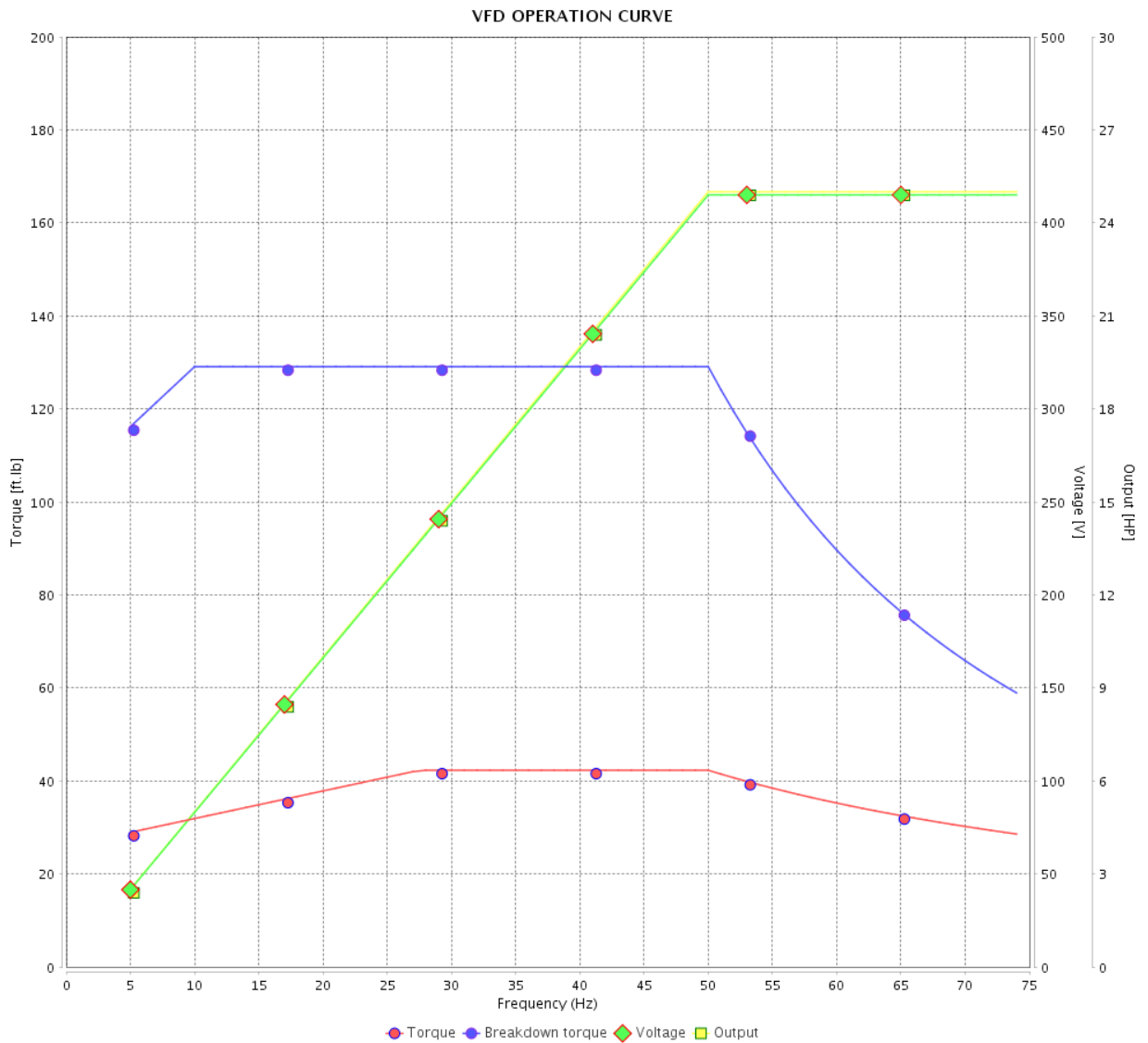


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11440288

Catalog # : 03036ET3E286TSC-W22



Performance : 415 V 50 Hz 2P IE3

Rated current : 31.3 A
 LRC : 7.2
 Rated torque : 44.5 ft.lb
 Locked rotor torque : 229 %
 Breakdown torque : 290 %
 Rated speed : 2950 rpm

Moment of inertia (J) : 3.37 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 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



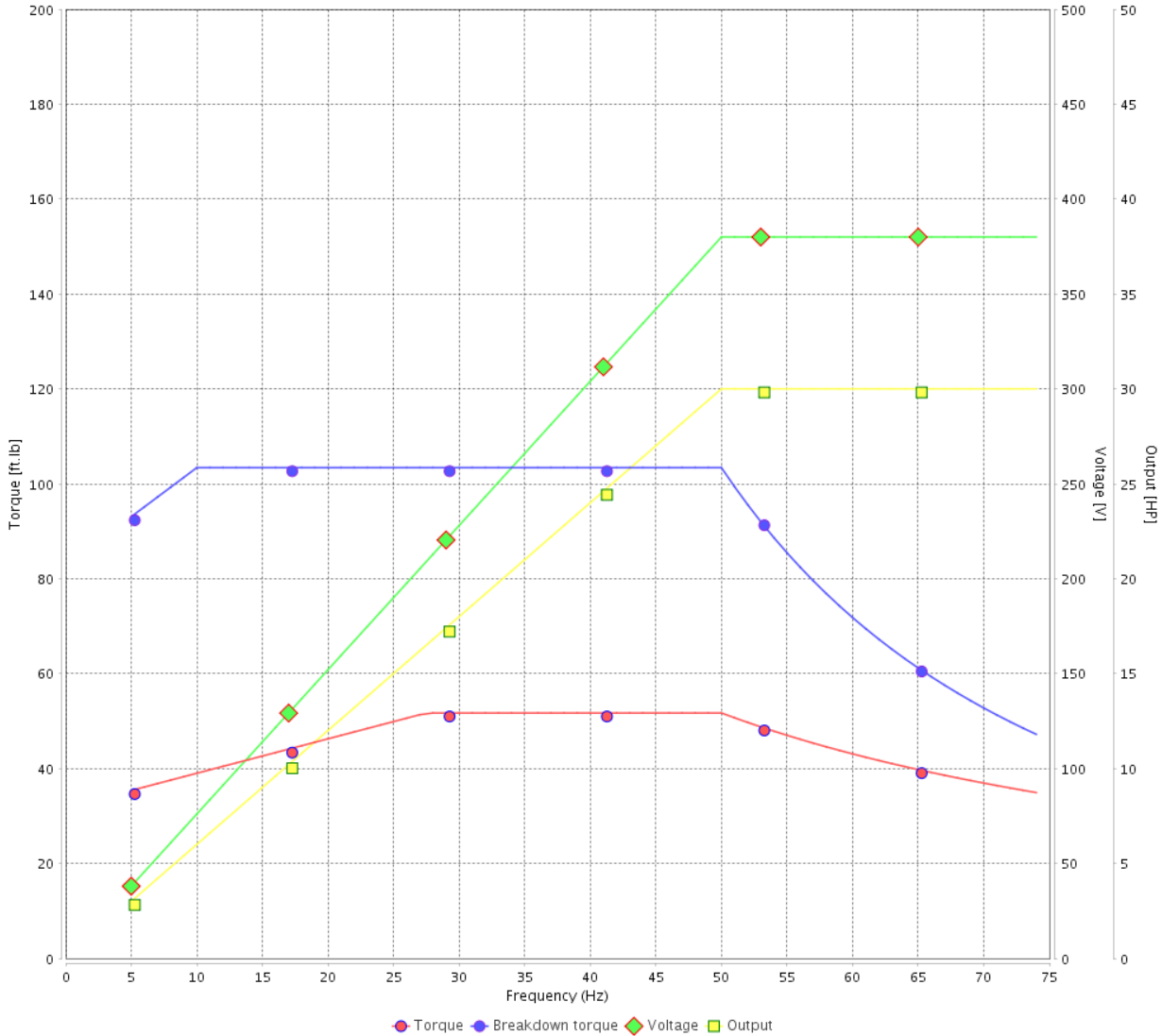
Customer : _____

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11440288

Catalog # : 03036ET3E286TSC-W22

VFD OPERATION CURVE



Performance : 380 V 50 Hz 2P

Rated current : 42.0 A
 LRC : 4.9
 Rated torque : 54.4 ft.lb
 Locked rotor torque : 160 %
 Breakdown torque : 190 %
 Rated speed : 2895 rpm

Moment of inertia (J) : 3.37 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : B

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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

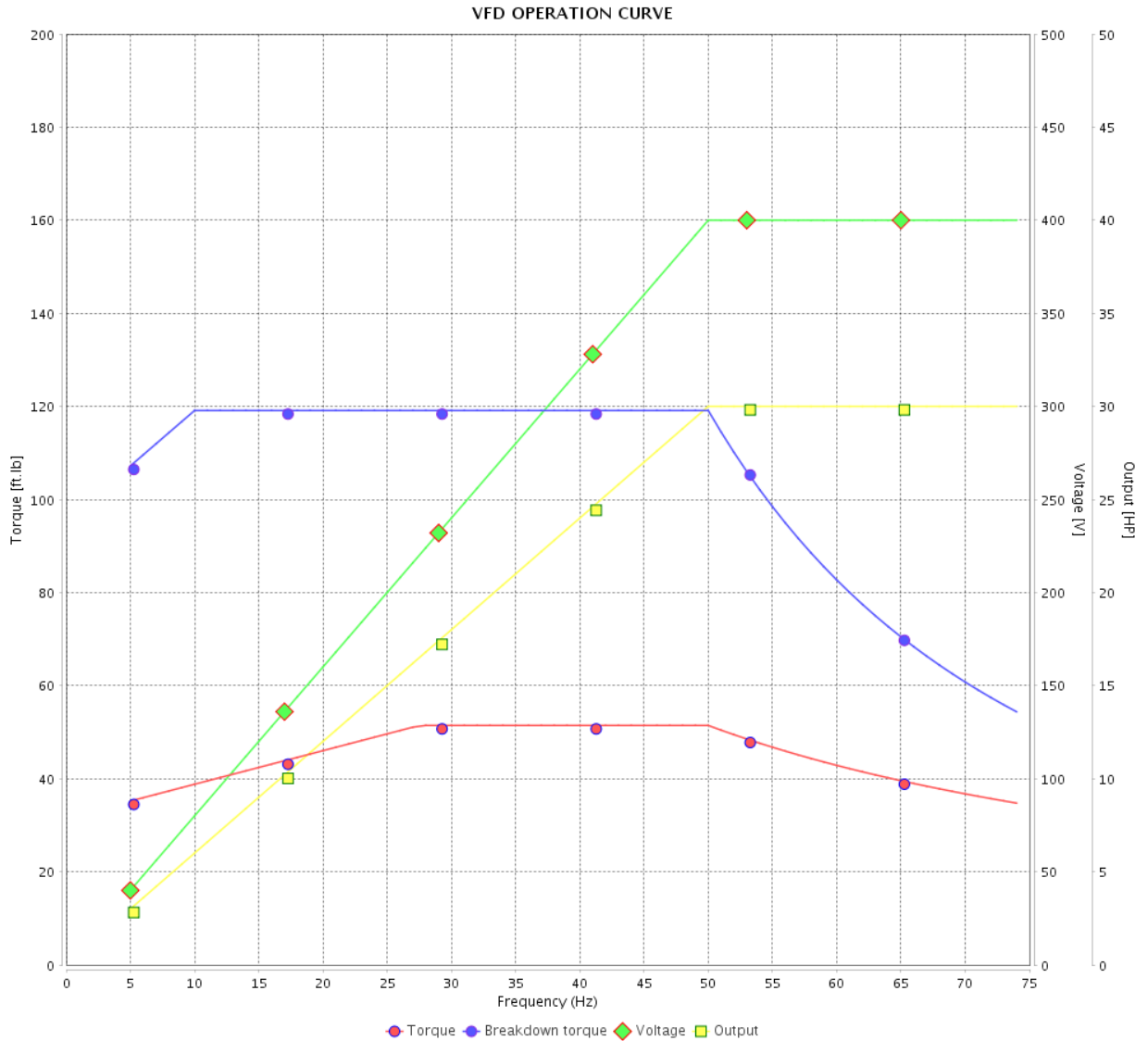


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11440288

Catalog # : 03036ET3E286TSC-W22



Performance : 400 V 50 Hz 2P IE1

Rated current : 39.6 A
 LRC : 5.5
 Rated torque : 54.1 ft.lb
 Locked rotor torque : 180 %
 Breakdown torque : 220 %
 Rated speed : 2910 rpm

Moment of inertia (J) : 3.37 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : B

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page		Revision
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Date		14/04/2022		

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



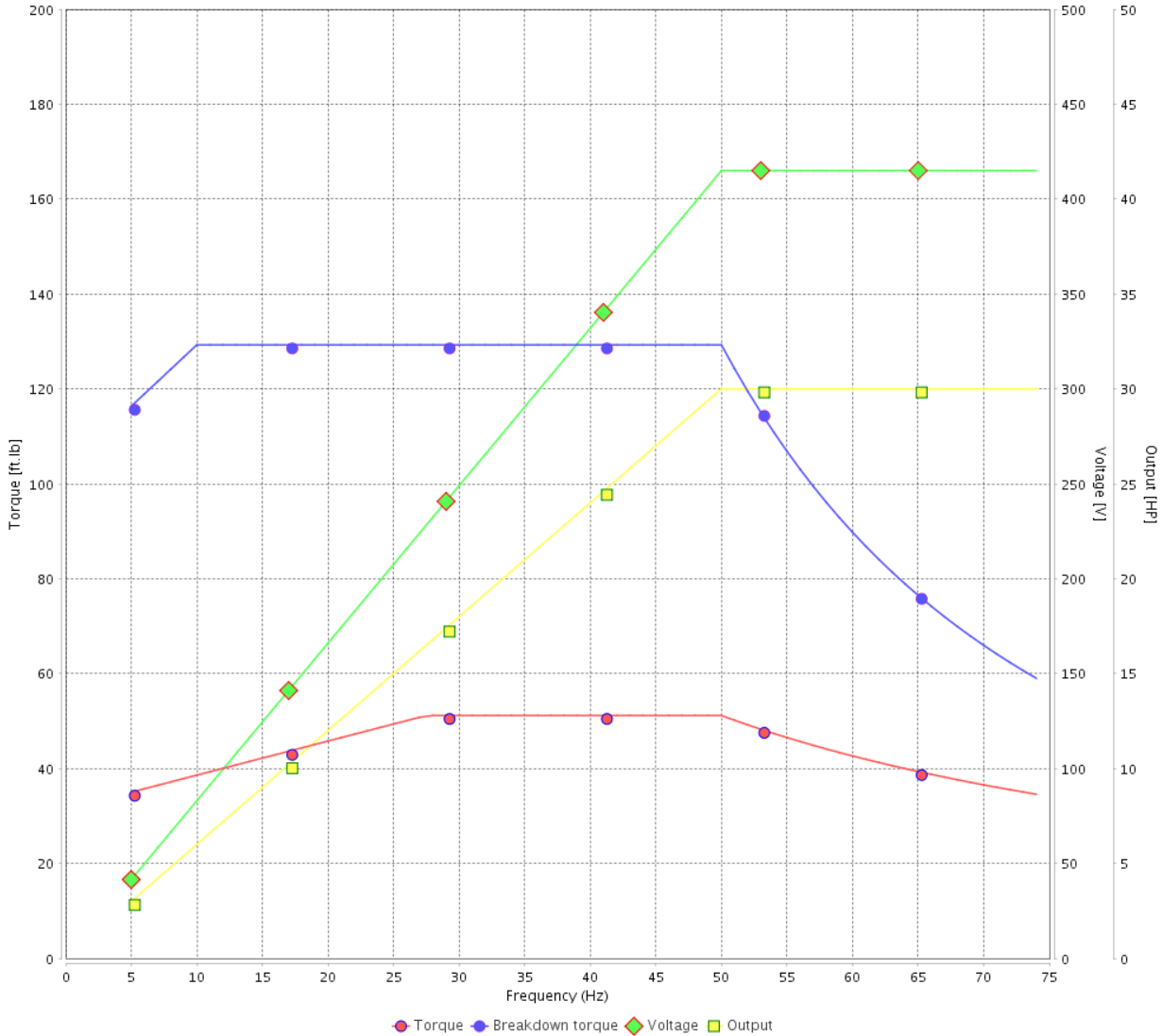
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Product line : NEMA Premium Efficiency Three-Phase

Product code : 11440288

Catalog # : 03036ET3E286TSC-W22

VFD OPERATION CURVE

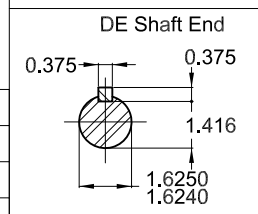
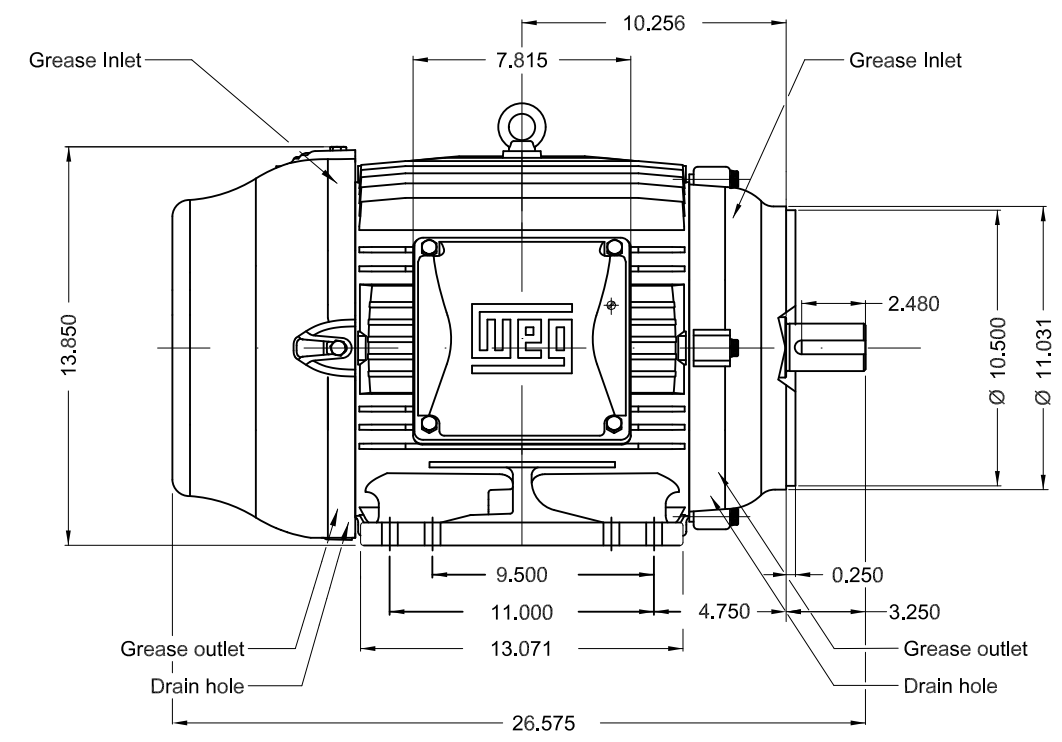
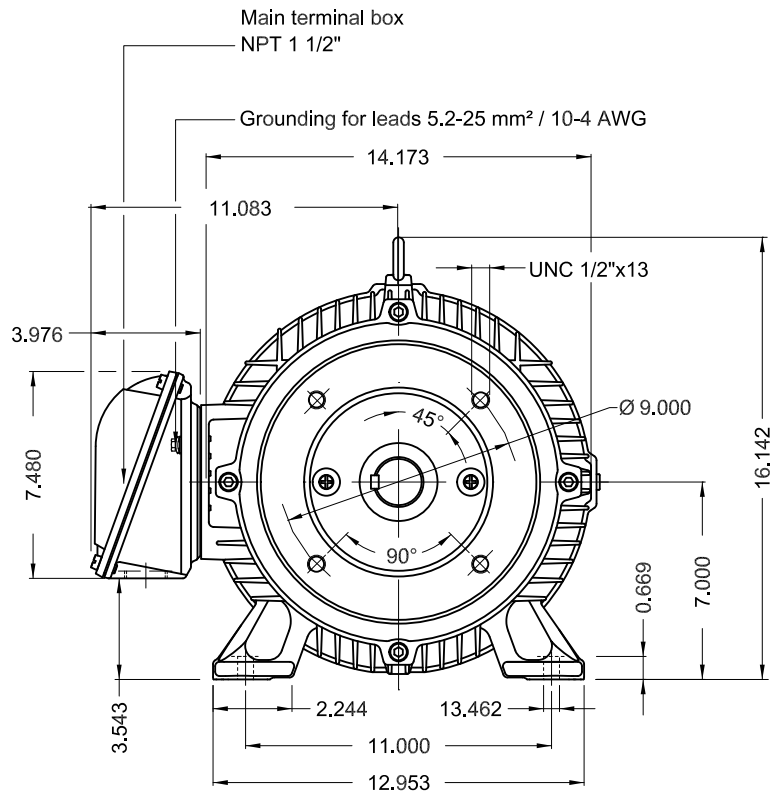


Performance : 415 V 50 Hz 2P IE1

Rated current : 37.8 A
 LRC : 6.0
 Rated torque : 53.9 ft.lb
 Locked rotor torque : 190 %
 Breakdown torque : 240 %
 Rated speed : 2925 rpm

Moment of inertia (J) : 3.37 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : B

Rev.	Changes Summary	Performed	Checked	Date
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Date				
			36 / 36	



Without vertical jackscrews
 Color RAL 5009
 Painting plan 203A
 Mounting B34R(D)

30 HP 02 Poles 60 Hz A

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	PIRWBUSER	THREE PH. MOTOR W22 PREM. EFF.					
CHECKED		FRAME 284/6TSC IP55 TEFC					
RELEASED							
REL DT.	WMO	Jaragua do Sul	Product Engineering	SHEET	1 / 1		

PREVIEW
 WDD





FOR SAFE AREA
Mod.TE1BFOXON
CC029A



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 - T4
For use on PWM: Gr. A, B, C, D and F,
VT 1000:1, CT 20:1, 1.00SF - T3A

VJP PART # CT030402NPW22

Inverter Duty Motor
Severe Duty

PH3 60Hz Fr. 284/6TSC 1000m.a.s.l. IP55 TEFC 424lb

V 230/460 A 68.4/34.2

HP 30 kW 22

SF 1.25 SFA 85.5/42.8

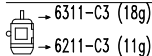
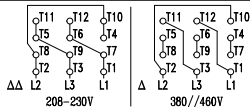
RPM 3540 PF 0.88

AMB 40°C INS cl. F DT80K NEMA NOM EFF 91.7%

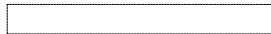
DUTY CONT. DES B Code G

USABLE @208V 76.7A SF 1.10 SFA 84.4

30HP 22kW 50Hz 380V 42.0A 2910RPM SF 1.00 EFF 89.5%



MOBIL POLYREX EM (14000h)



MADE IN BRAZIL
11440288