

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer								
Product line	: NEMA Premium Efficiency Three-Phase	Product code	: 12603096					
		Catalog #	: 04036ET3E324JP-W22					
Frame	: 324/6JP	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	: 555 lb					
Protection degree	: IP55	Moment of inertia (J)	: 4.90 sq.ft.lb					
Design	: B							
Output [HP]	40	30	30	30	40	40	40	
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]	92.6/46.3	41.0	39.4	38.4	56.3	53.1	51.7	
L. R. Amperes [A]	583/292	295	296	292	282	297	321	
LRC [A]	6.3x(Code G)	7.2x(Code G)	7.5x(Code H)	7.6x(Code H)	5.0x(Code E)	5.6x(Code F)	6.2x(Code F)	
No load current [A]	26.0/13.0	12.0	13.0	13.5	12.0	13.0	13.5	
Rated speed [RPM]	3560	2965	2970	2970	2940	2945	2955	
Slip [%]	1.11	1.17	1.00	1.00	2.00	1.83	1.50	
Rated torque [ft.lb]	59.1	53.2	53.1	53.0	71.4	71.3	71.2	
Locked rotor torque [%]	250	240	270	290	180	200	220	
Breakdown torque [%]	240	250	280	310	200	210	229	
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	39s (cold) 22s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	
Noise level ²	76.0 dB(A)	72.0 dB(A)	72.0 dB(A)	72.0 dB(A)	72.0 dB(A)	72.0 dB(A)	72.0 dB(A)	
Efficiency (%)	25%	91.6	90.0	89.3	90.0	92.2	91.6	92.2
	50%	91.7	90.9	90.3	90.7	91.7	91.7	91.7
	75%	92.4	91.8	91.7	92.1	91.7	91.7	92.4
	100%	92.4	92.7	92.7	92.7	91.0	91.7	91.7
Power Factor	25%	0.55	0.54	0.50	0.48	0.62	0.59	0.56
	50%	0.80	0.77	0.75	0.73	0.84	0.82	0.80
	75%	0.86	0.85	0.83	0.82	0.88	0.87	0.86
	100%	0.88	0.88	0.87	0.86	0.89	0.89	0.88
Bearing type	: 6312 C3	6212 C3	Foundation loads					
Sealing	: V'Ring	V'Ring	Max. traction	: 350 lb				
Lubrication interval	: 12000 h	15000 h	Max. compression	: 905 lb				
Lubricant amount	: 21 g	13 g						
Lubricant type	: Mobil Polyrex EM							
Notes								
USABLE @208V 101A SF 1.10 SFA 111A								
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



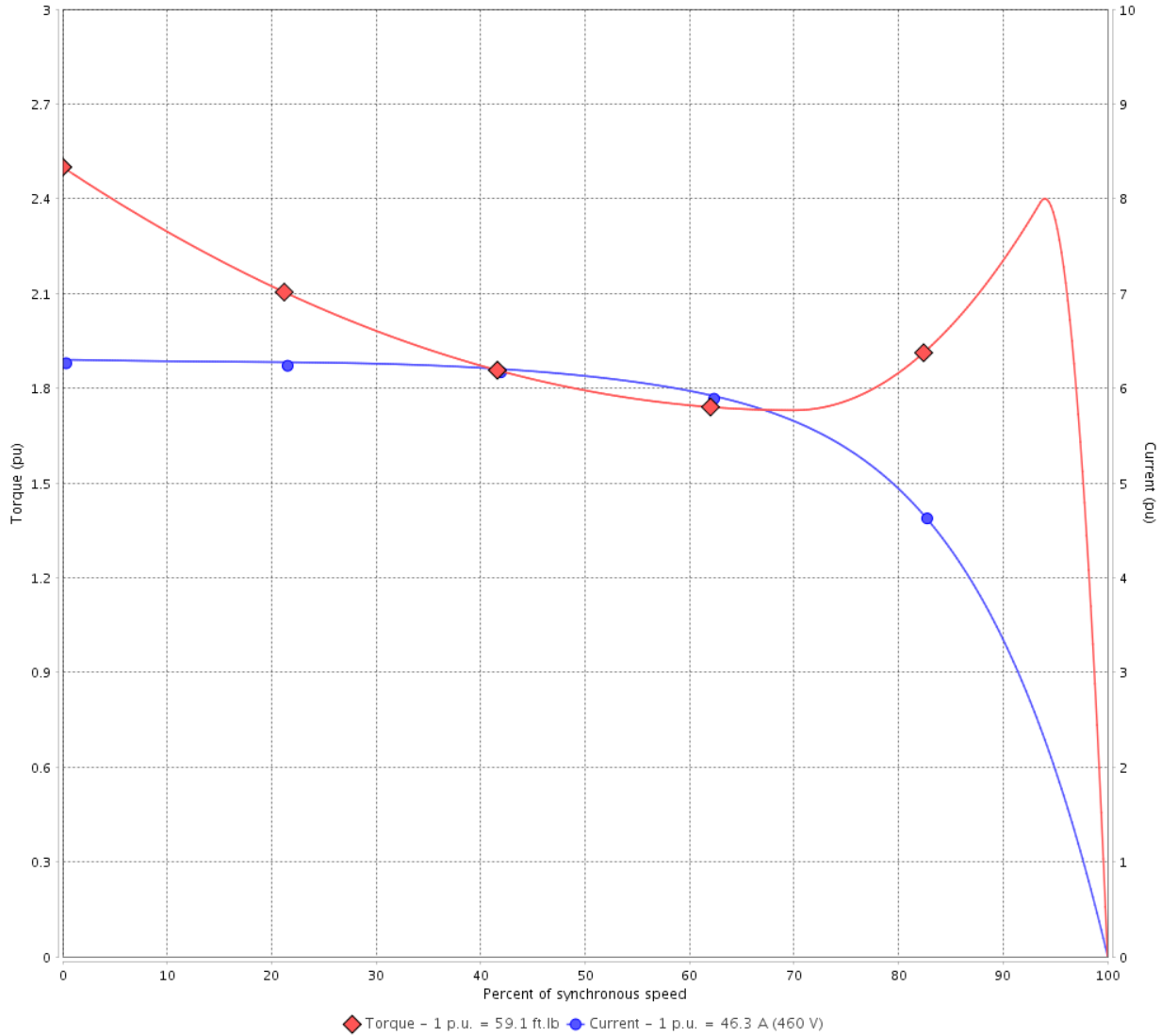
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12603096

Catalog # : 04036ET3E324JP-W22

TORQUE AND CURRENT VS SPEED CURVE



Performance : 230/460 V 60 Hz 2P

Rated current	: 92.6/46.3 A	Moment of inertia (J)	: 4.90 sq.ft.lb
LRC	: 6.3	Duty cycle	: Cont.(S1)
Rated torque	: 59.1 ft.lb	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.25
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 3560 rpm	Design	: B

Locked rotor time : 39s (cold) 22s (hot)

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TORQUE AND CURRENT VS SPEED CURVE



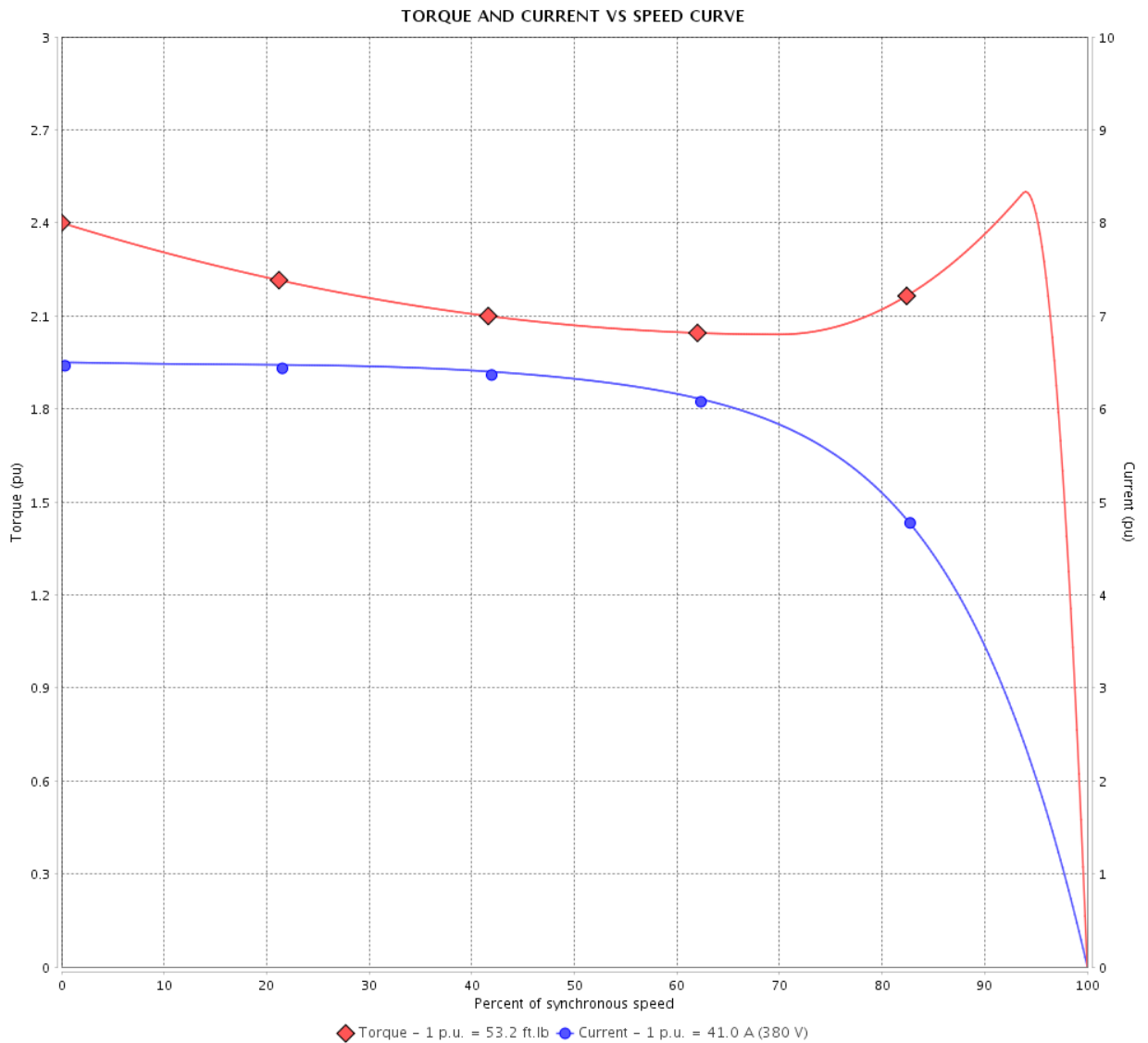
Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12603096

Catalog # : 04036ET3E324JP-W22



Performance : 380 V 50 Hz 2P IE3

Rated current	: 41.0 A	Moment of inertia (J)	: 4.90 sq.ft.lb
LRC	: 7.2	Duty cycle	: Cont.(S1)
Rated torque	: 53.2 ft.lb	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.00
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 2965 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



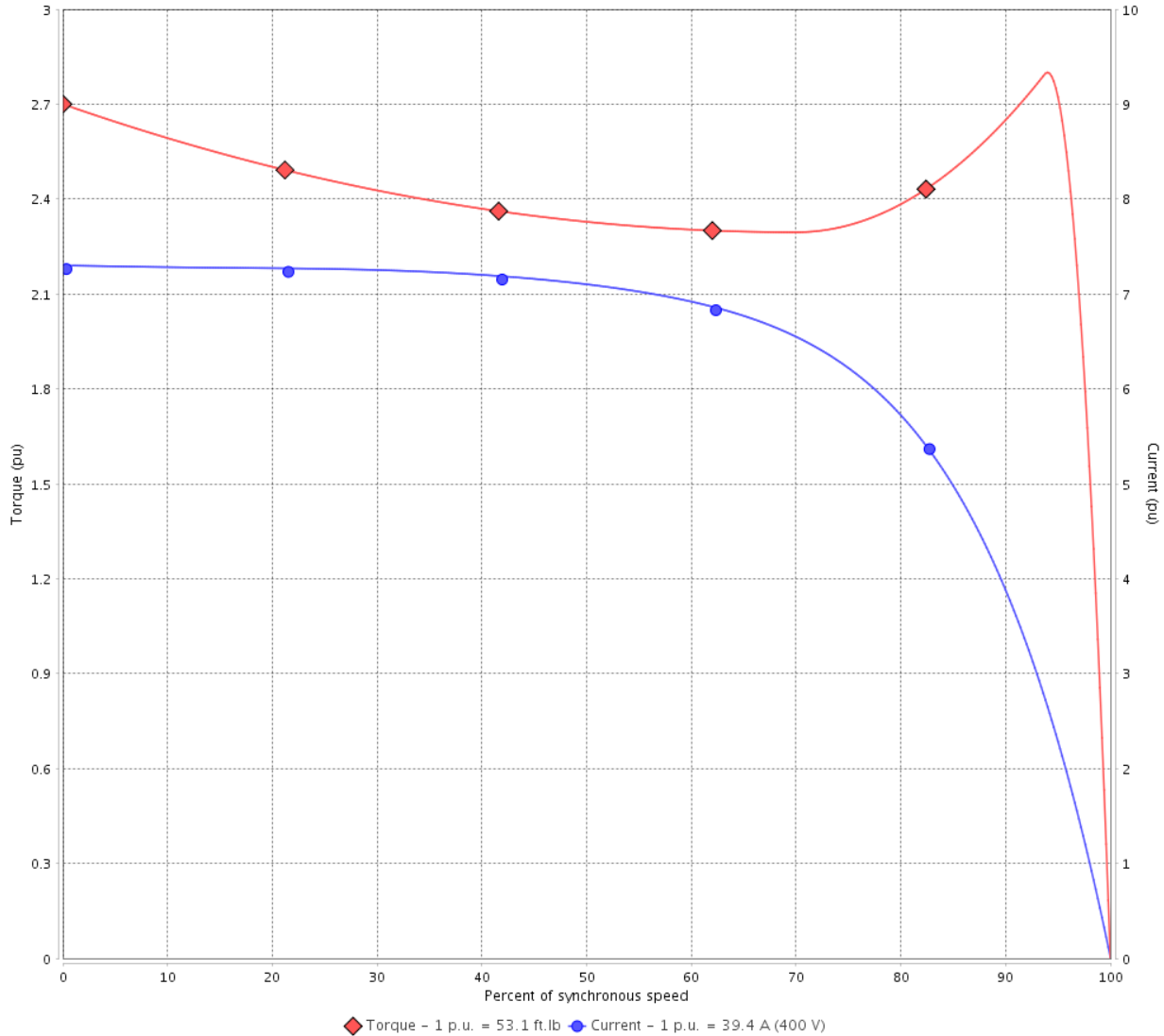
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12603096

Catalog # : 04036ET3E324JP-W22

TORQUE AND CURRENT VS SPEED CURVE



Performance : 400 V 50 Hz 2P IE3

Rated current	: 39.4 A	Moment of inertia (J)	: 4.90 sq.ft.lb
LRC	: 7.5	Duty cycle	: Cont.(S1)
Rated torque	: 53.1 ft.lb	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.00
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 2970 rpm	Design	: B

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

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TORQUE AND CURRENT VS SPEED CURVE



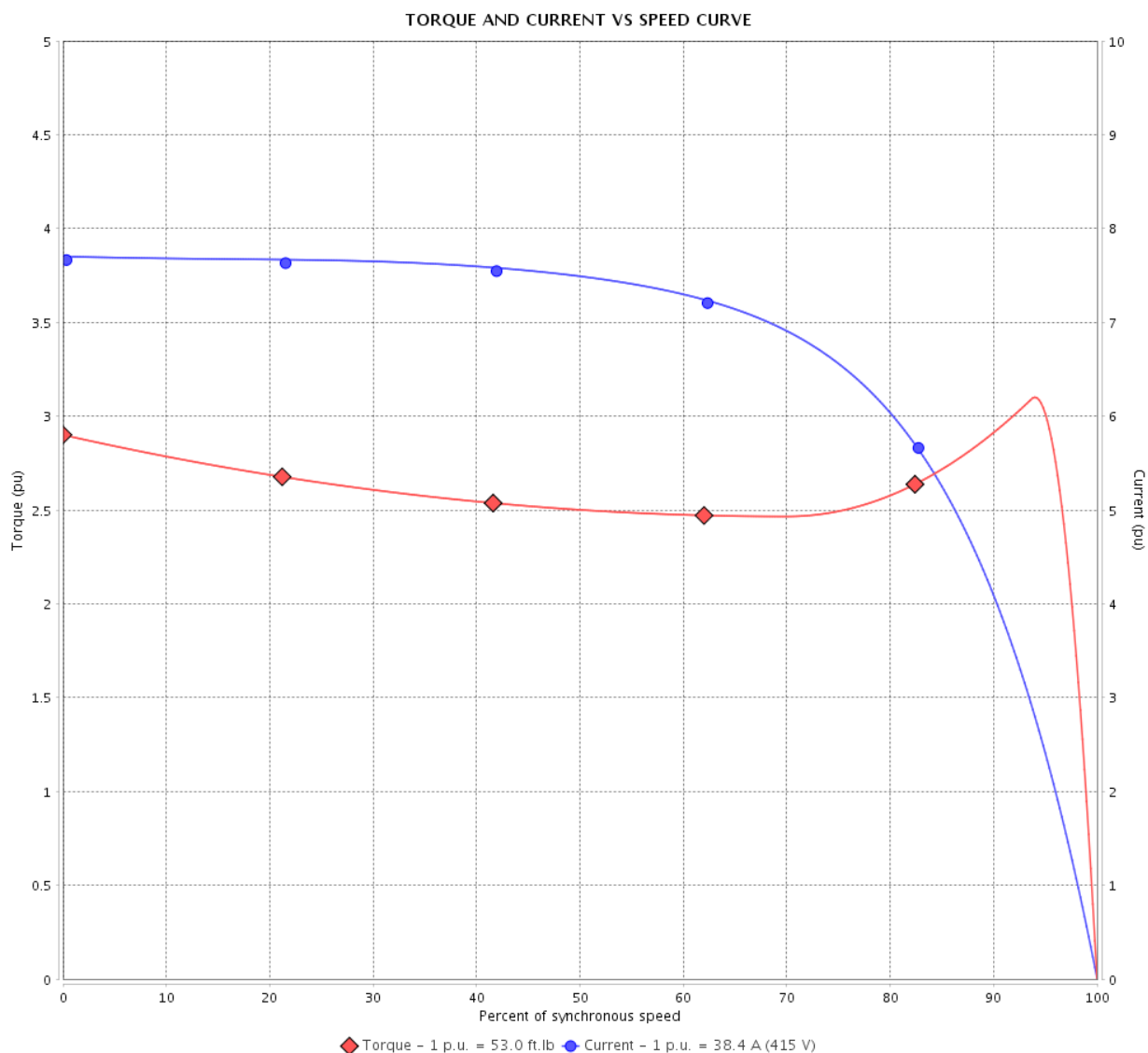
Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12603096

Catalog # : 04036ET3E324JP-W22



Performance : 415 V 50 Hz 2P IE3

Rated current	: 38.4 A	Moment of inertia (J)	: 4.90 sq.ft.lb
LRC	: 7.6	Duty cycle	: Cont.(S1)
Rated torque	: 53.0 ft.lb	Insulation class	: F
Locked rotor torque	: 290 %	Service factor	: 1.00
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 2970 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



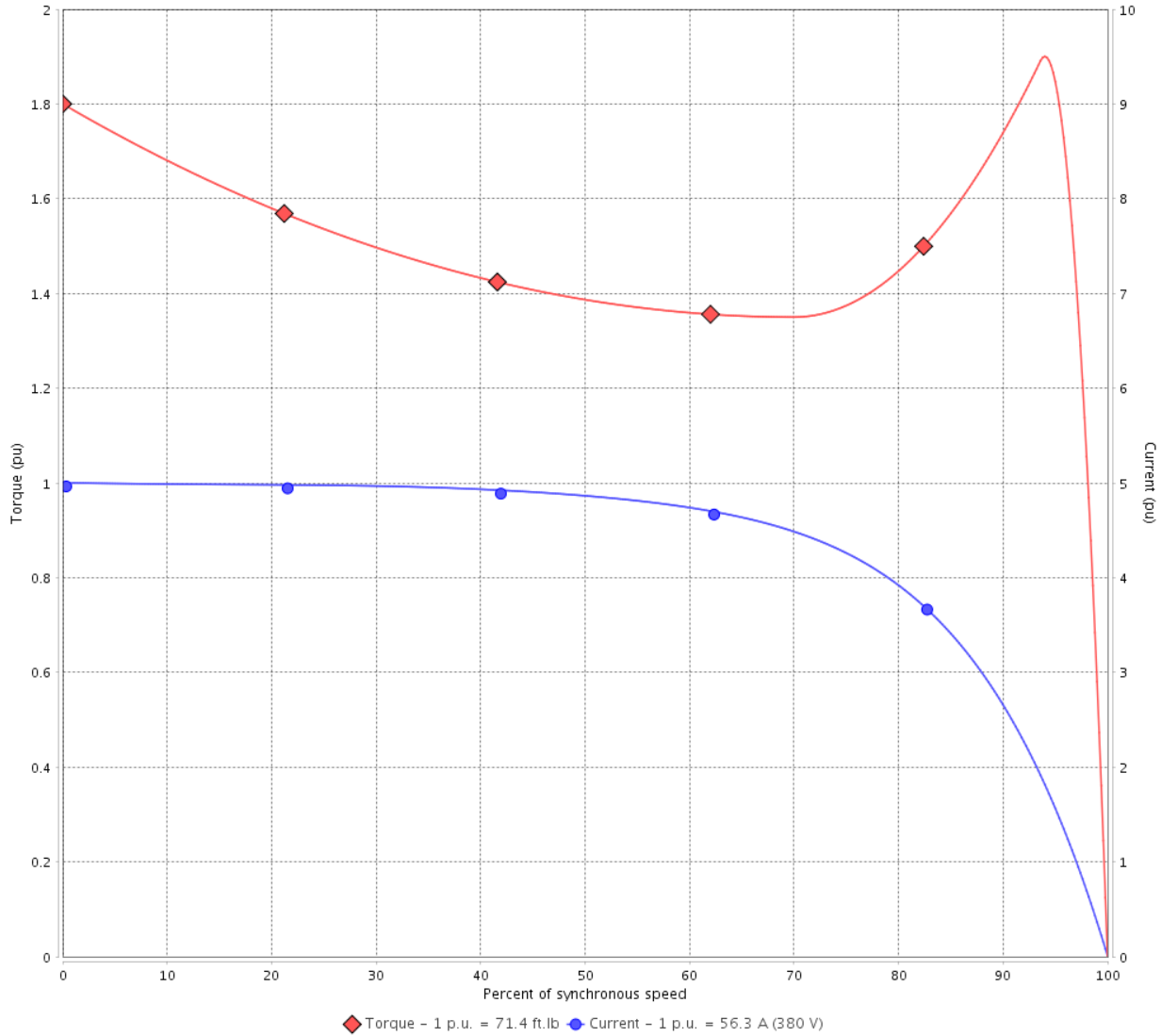
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12603096

Catalog # : 04036ET3E324JP-W22

TORQUE AND CURRENT VS SPEED CURVE



Performance : 380 V 50 Hz 2P IE1

Rated current	: 56.3 A	Moment of inertia (J)	: 4.90 sq.ft.lb
LRC	: 5.0	Duty cycle	: Cont.(S1)
Rated torque	: 71.4 ft.lb	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.00
Breakdown torque	: 200 %	Temperature rise	: 105 K
Rated speed	: 2940 rpm	Design	: B

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

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TORQUE AND CURRENT VS SPEED CURVE



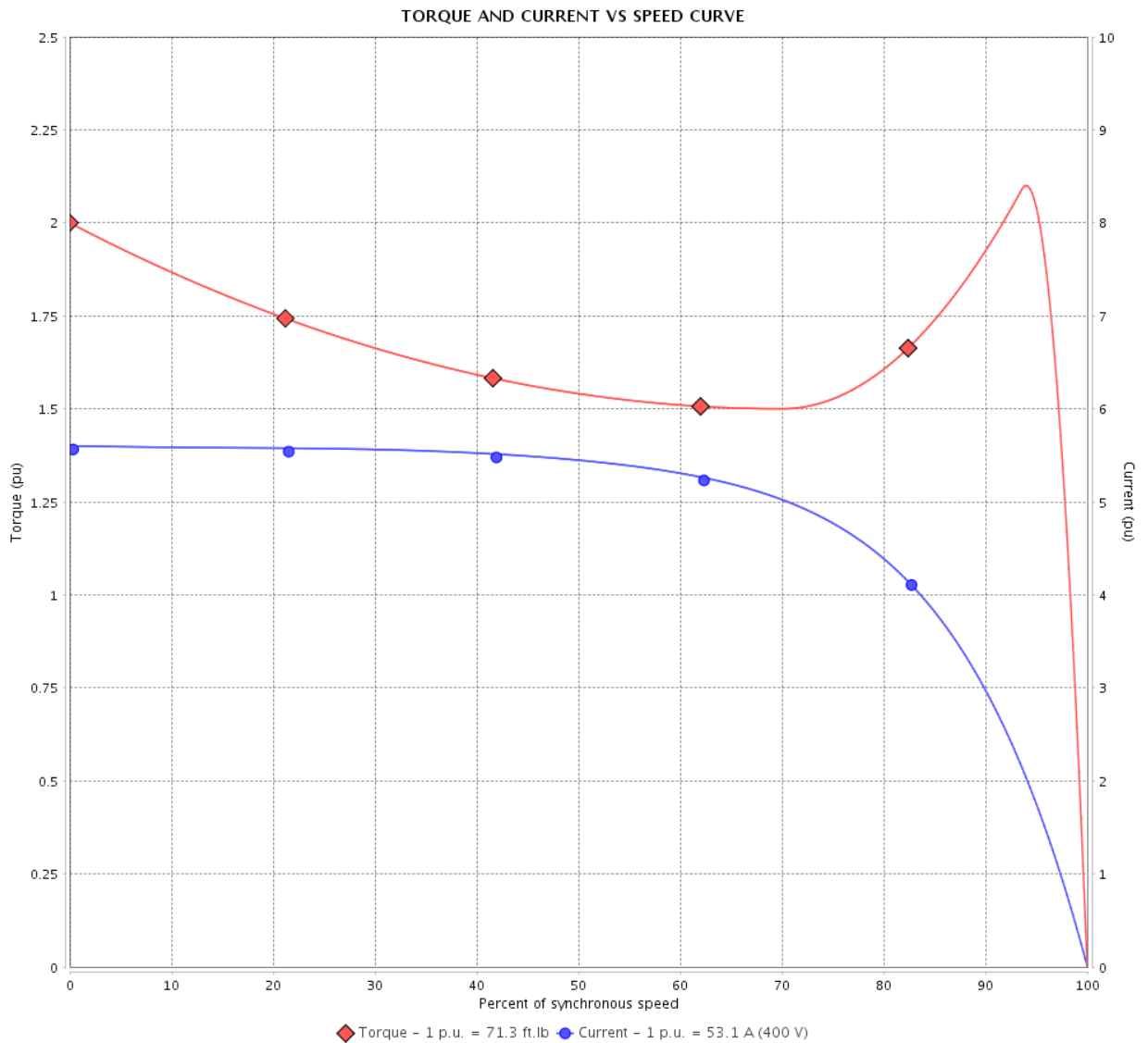
Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12603096

Catalog # : 04036ET3E324JP-W22



Performance : 400 V 50 Hz 2P IE1

Rated current	: 53.1 A	Moment of inertia (J)	: 4.90 sq.ft.lb
LRC	: 5.6	Duty cycle	: Cont.(S1)
Rated torque	: 71.3 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.00
Breakdown torque	: 210 %	Temperature rise	: 105 K
Rated speed	: 2945 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



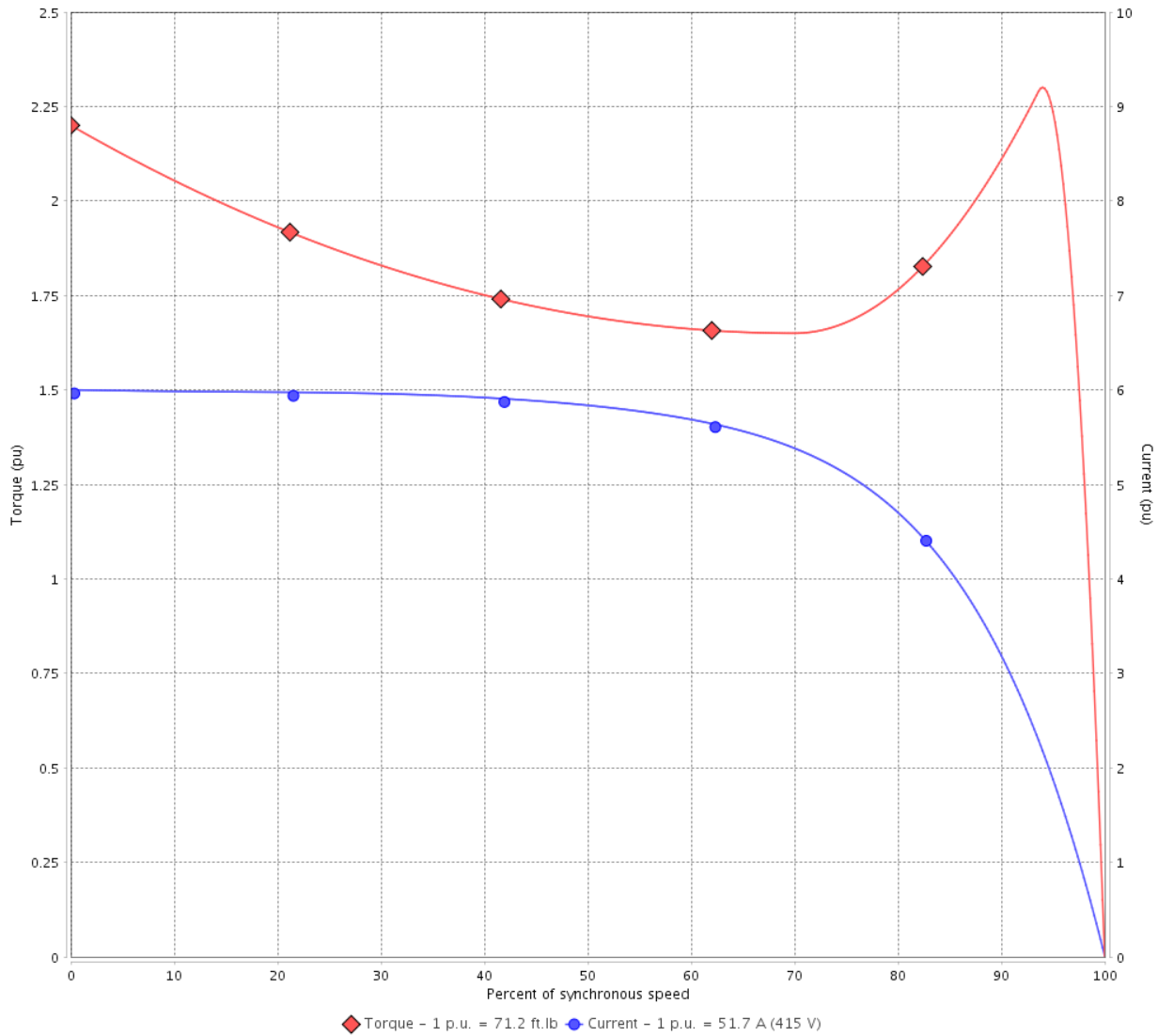
Customer :

Product line : NEMA Premium Efficiency Three-Phase

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Catalog # : 04036ET3E324JP-W22

TORQUE AND CURRENT VS SPEED CURVE



Performance : 415 V 50 Hz 2P IE1

Rated current	: 51.7 A	Moment of inertia (J)	: 4.90 sq.ft.lb
LRC	: 6.2	Duty cycle	: Cont.(S1)
Rated torque	: 71.2 ft.lb	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.00
Breakdown torque	: 229 %	Temperature rise	: 105 K
Rated speed	: 2955 rpm	Design	: B

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

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Three Phase Induction Motor - Squirrel Cage

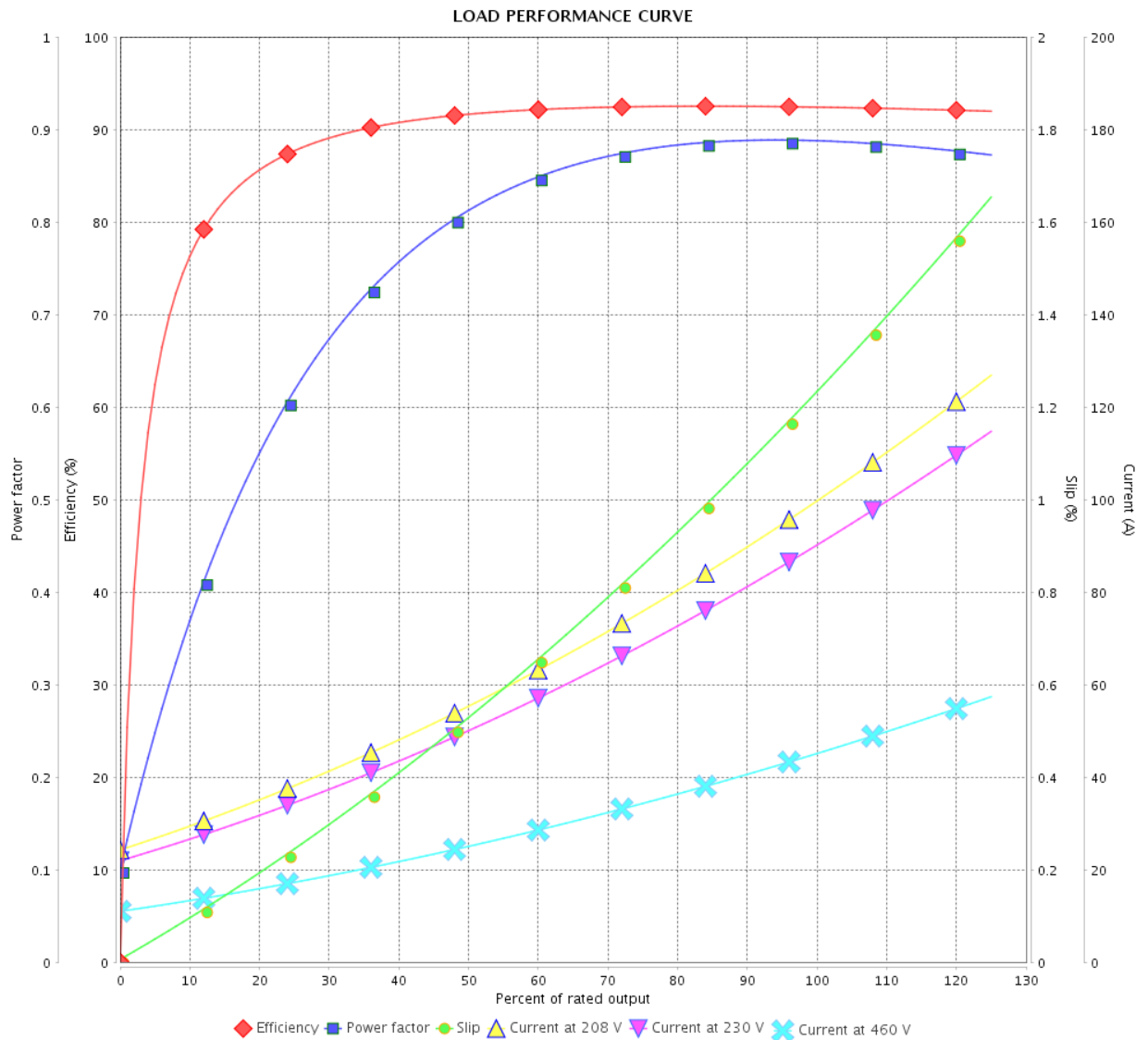


Customer : _____

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12603096

Catalog # : 04036ET3E324JP-W22



Performance : 230/460 V 60 Hz 2P

Rated current : 92.6/46.3 A
 LRC : 6.3
 Rated torque : 59.1 ft.lb
 Locked rotor torque : 250 %
 Breakdown torque : 240 %
 Rated speed : 3560 rpm

Moment of inertia (J) : 4.90 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



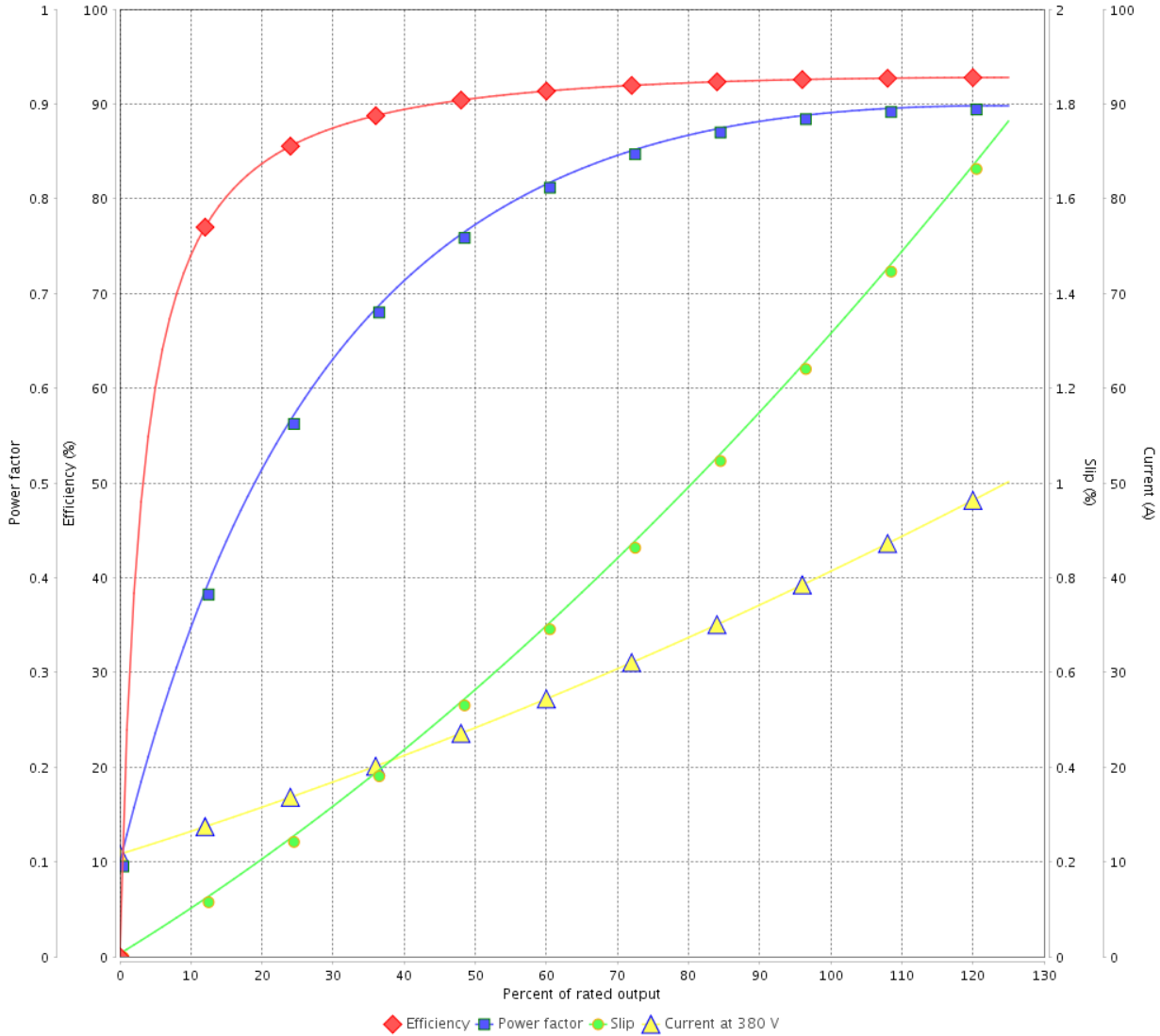
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12603096

Catalog # : 04036ET3E324JP-W22

LOAD PERFORMANCE CURVE



Performance : 380 V 50 Hz 2P IE3

Rated current	: 41.0 A	Moment of inertia (J)	: 4.90 sq.ft.lb
LRC	: 7.2	Duty cycle	: Cont.(S1)
Rated torque	: 53.2 ft.lb	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.00
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 2965 rpm	Design	: B

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Three Phase Induction Motor - Squirrel Cage

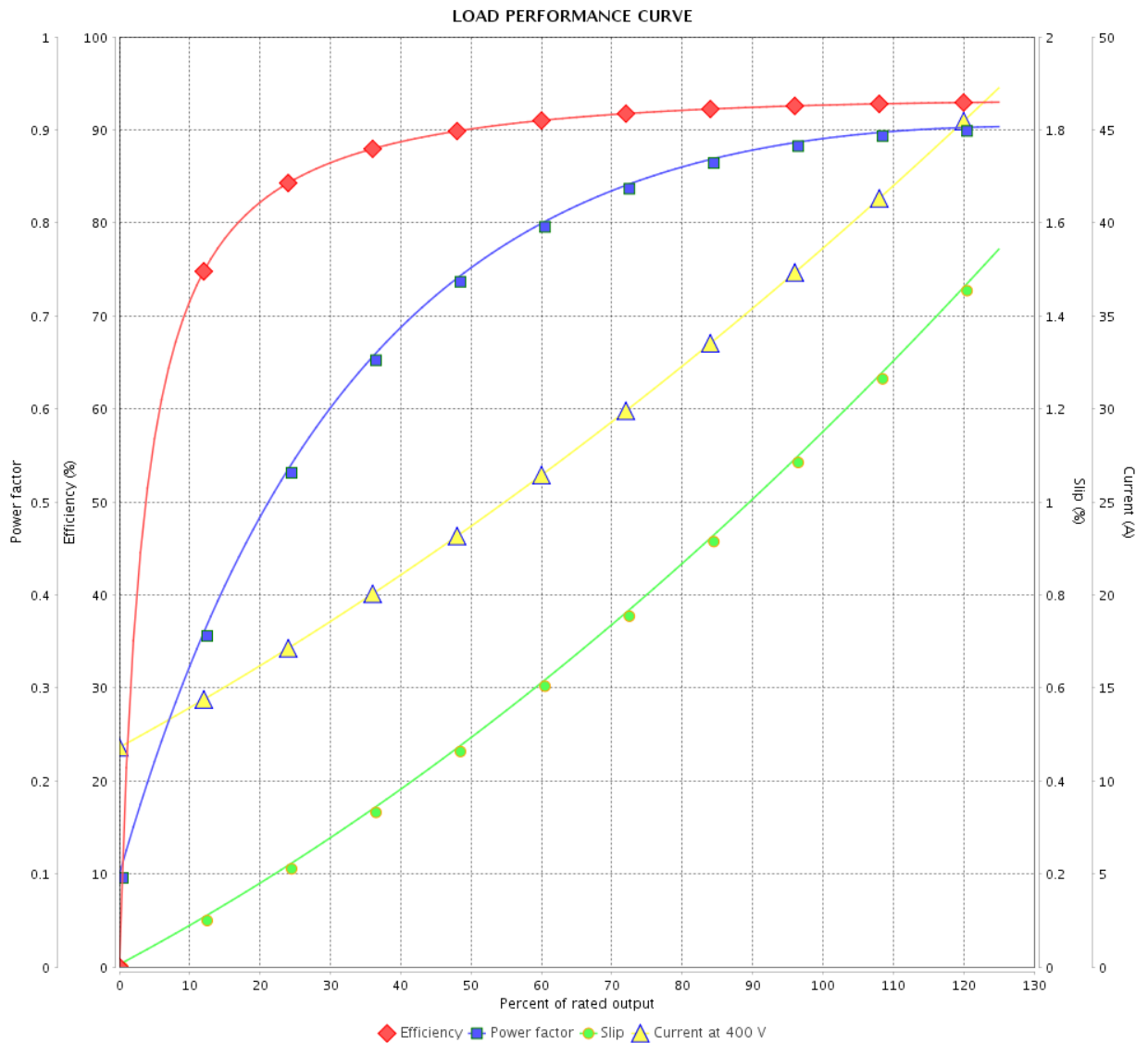


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12603096

Catalog # : 04036ET3E324JP-W22



Performance : 400 V 50 Hz 2P IE3

Rated current : 39.4 A
 LRC : 7.5
 Rated torque : 53.1 ft.lb
 Locked rotor torque : 270 %
 Breakdown torque : 280 %
 Rated speed : 2970 rpm

Moment of inertia (J) : 4.90 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

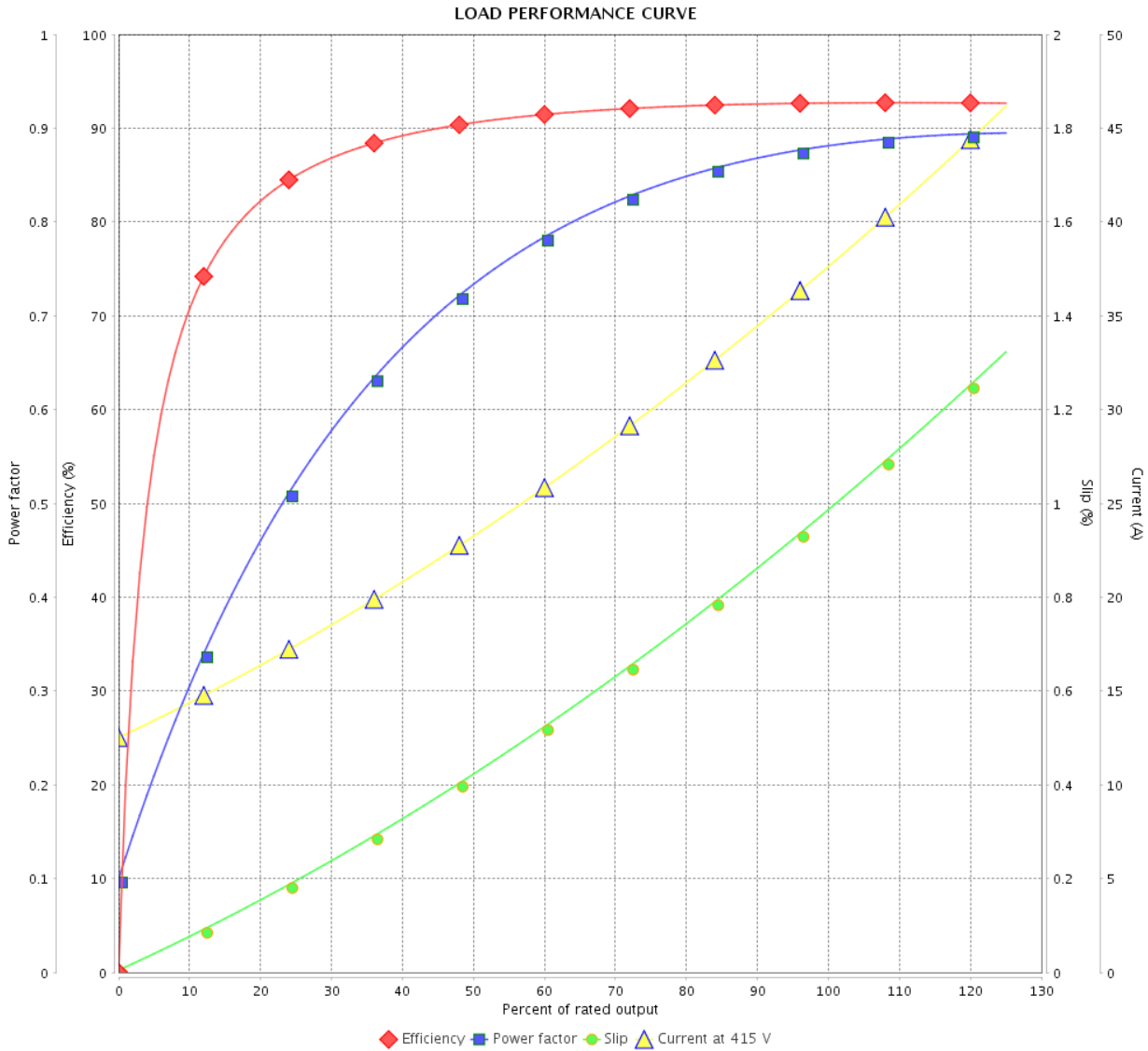


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12603096

Catalog # : 04036ET3E324JP-W22



Performance : 415 V 50 Hz 2P IE3

Rated current : 38.4 A
 LRC : 7.6
 Rated torque : 53.0 ft.lb
 Locked rotor torque : 290 %
 Breakdown torque : 310 %
 Rated speed : 2970 rpm

Moment of inertia (J) : 4.90 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

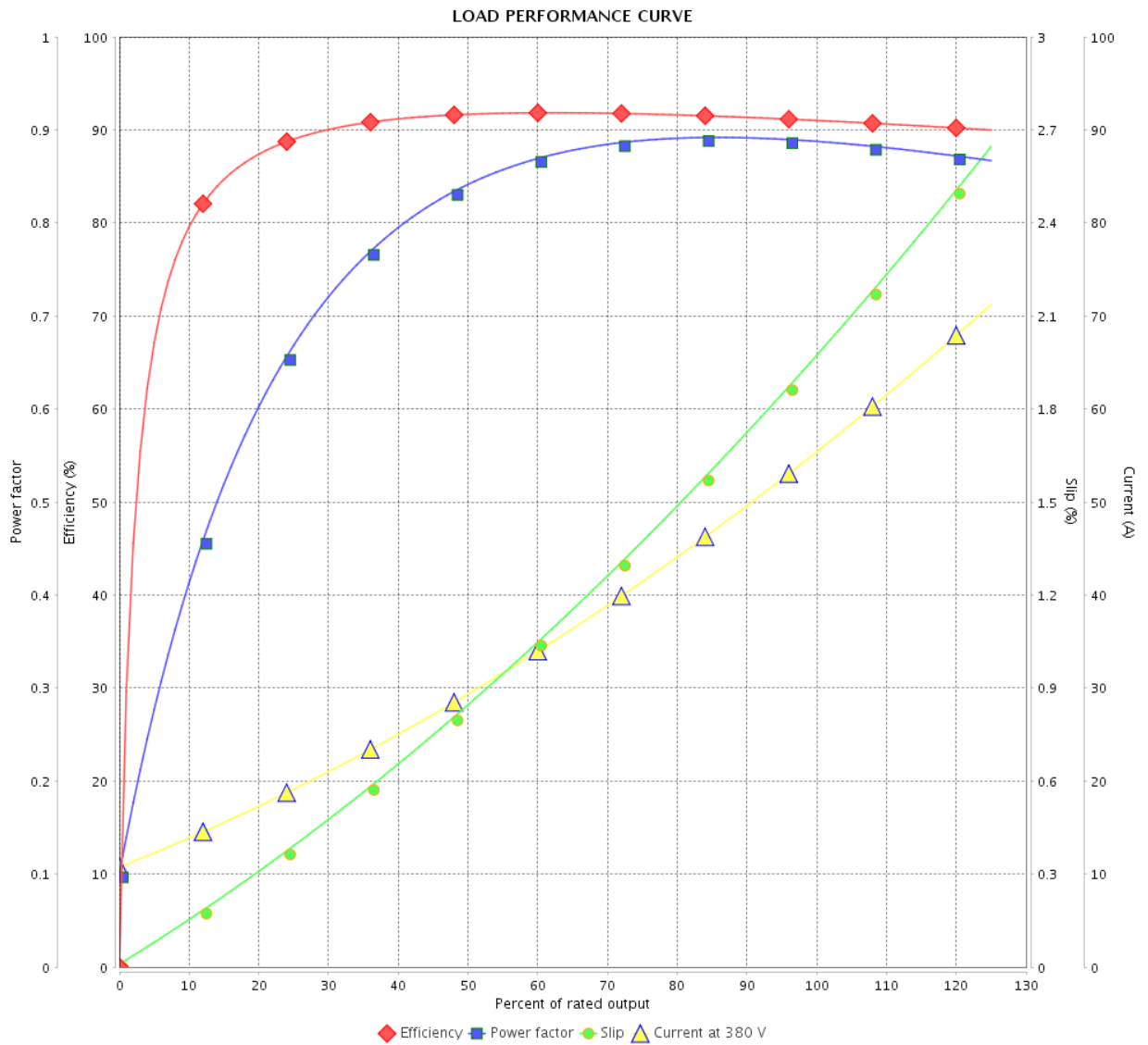


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12603096

Catalog # : 04036ET3E324JP-W22



Performance : 380 V 50 Hz 2P IE1

Rated current : 56.3 A
 LRC : 5.0
 Rated torque : 71.4 ft.lb
 Locked rotor torque : 180 %
 Breakdown torque : 200 %
 Rated speed : 2940 rpm

Moment of inertia (J) : 4.90 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

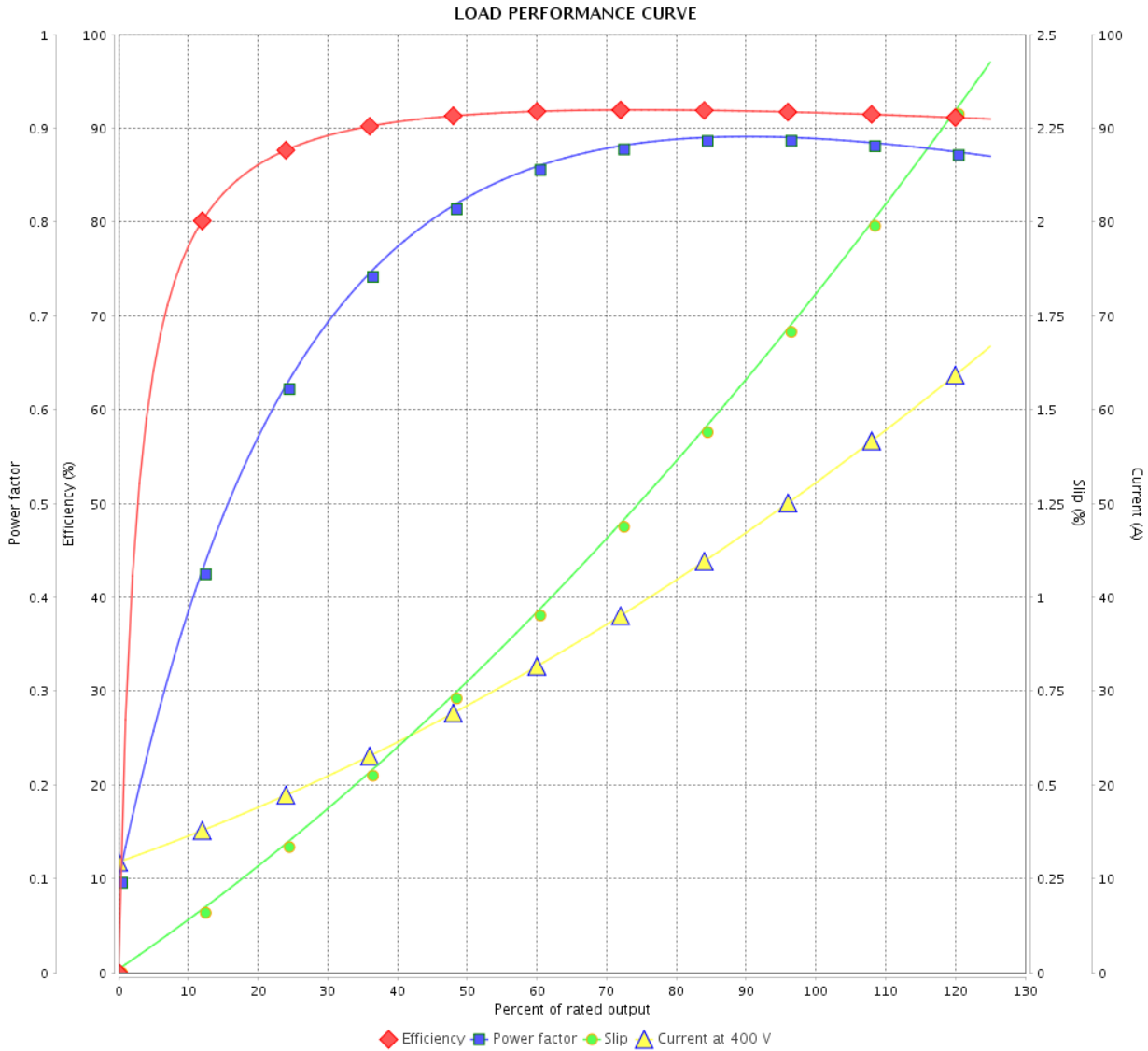


Customer : _____

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12603096

Catalog # : 04036ET3E324JP-W22



Performance : 400 V 50 Hz 2P IE1

Rated current : 53.1 A
 LRC : 5.6
 Rated torque : 71.3 ft.lb
 Locked rotor torque : 200 %
 Breakdown torque : 210 %
 Rated speed : 2945 rpm

Moment of inertia (J) : 4.90 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

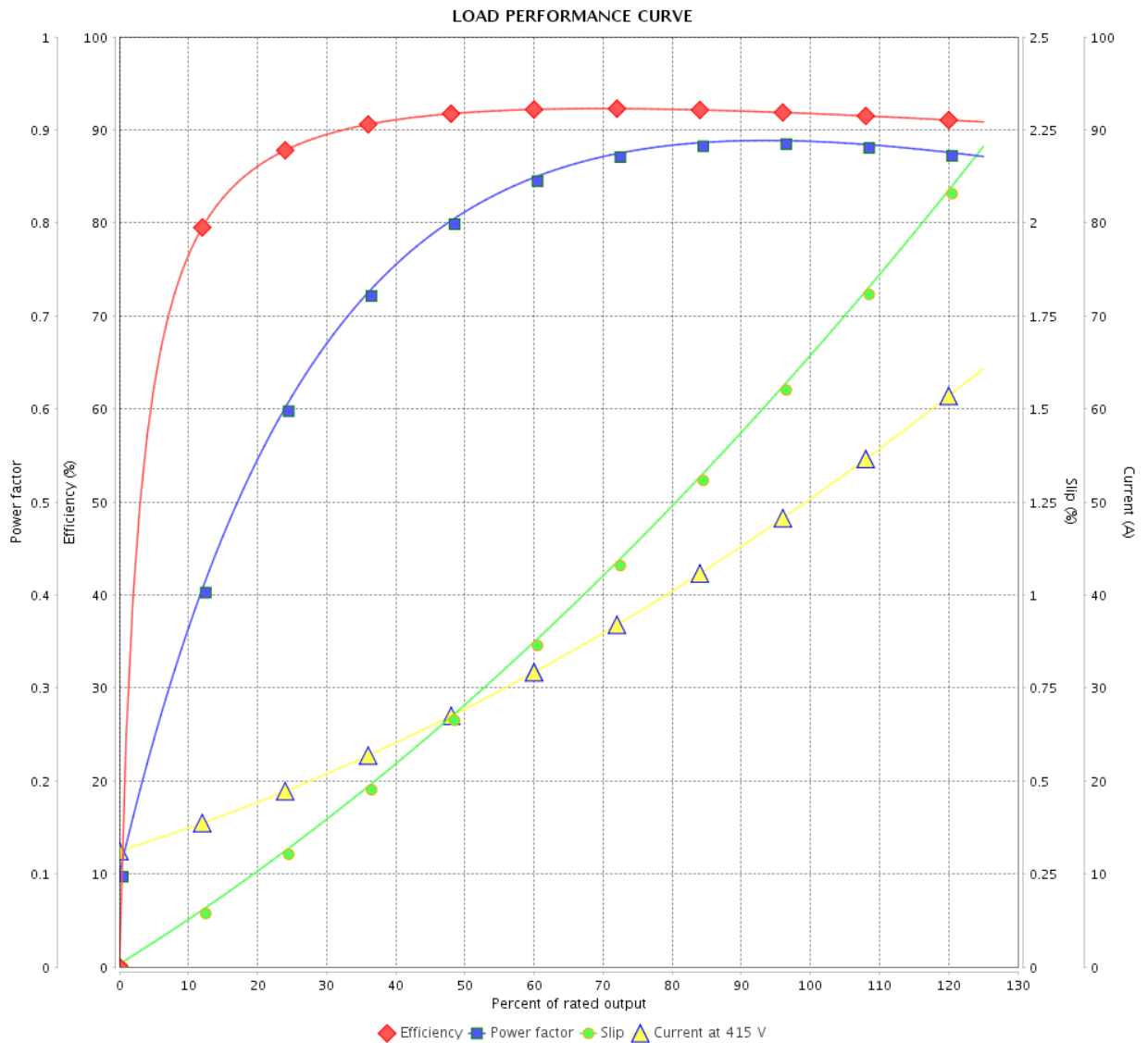


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12603096

Catalog # : 04036ET3E324JP-W22



Performance : 415 V 50 Hz 2P IE1

Rated current : 51.7 A
 LRC : 6.2
 Rated torque : 71.2 ft.lb
 Locked rotor torque : 220 %
 Breakdown torque : 229 %
 Rated speed : 2955 rpm

Moment of inertia (J) : 4.90 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 : 12603096
Catalog # : 04036ET3E324JP-W22

Performance : 230/460 V 60 Hz 2P

Rated current	: 92.6/46.3 A	Moment of inertia (J)	: 4.90 sq.ft.lb
LRC	: 6.3	Duty cycle	: Cont.(S1)
Rated torque	: 59.1 ft.lb	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.25
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 3560 rpm	Design	: B

Heating constant

Cooling constant

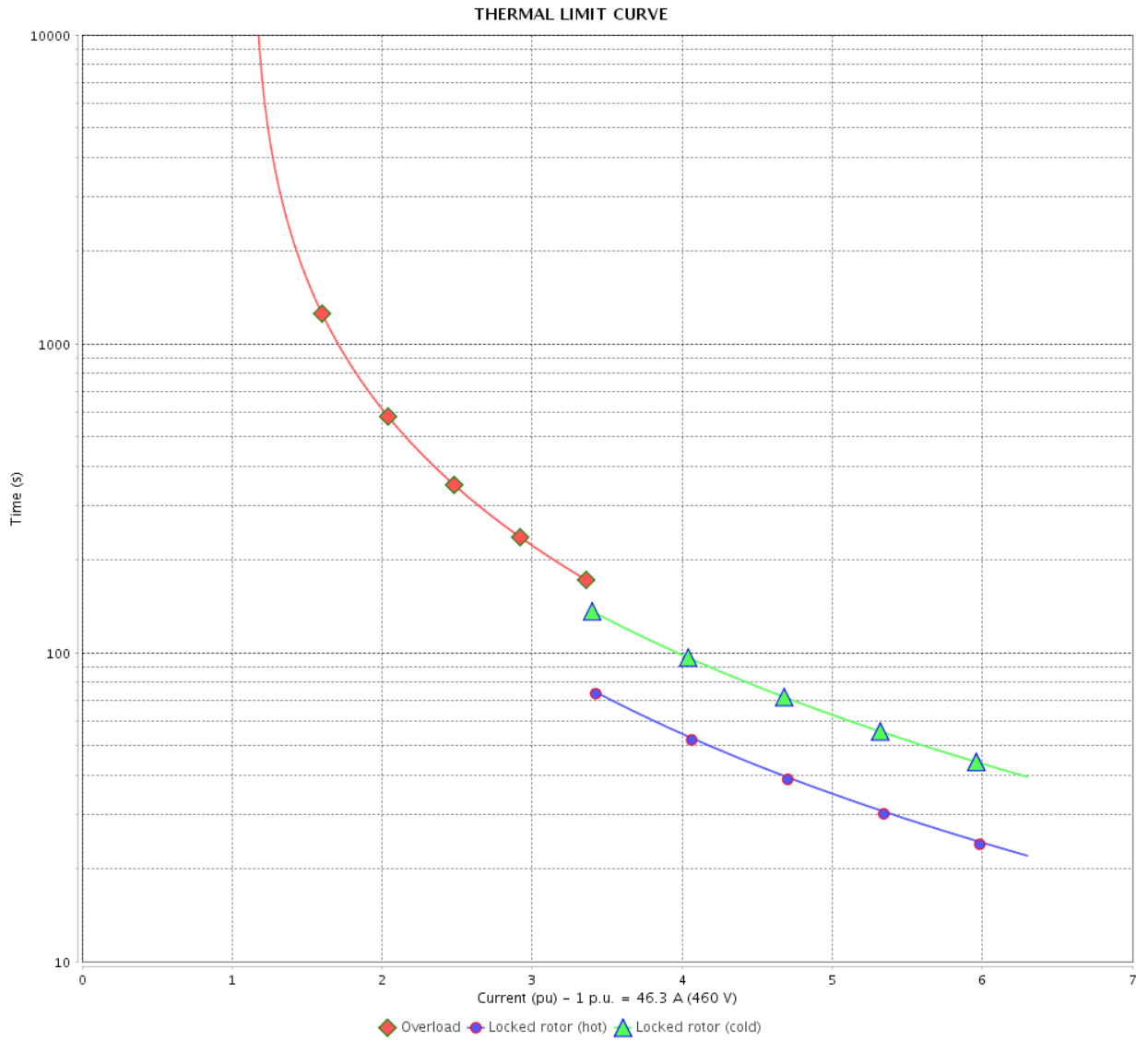
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Three Phase Induction Motor - Squirrel Cage



Customer : _____



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THERMAL LIMIT CURVE



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase
Product code : 12603096
Catalog # : 04036ET3E324JP-W22

Performance : 380 V 50 Hz 2P IE3

Rated current	: 41.0 A	Moment of inertia (J)	: 4.90 sq.ft.lb
LRC	: 7.2	Duty cycle	: Cont.(S1)
Rated torque	: 53.2 ft.lb	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.00
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 2965 rpm	Design	: B

Heating constant

Cooling constant

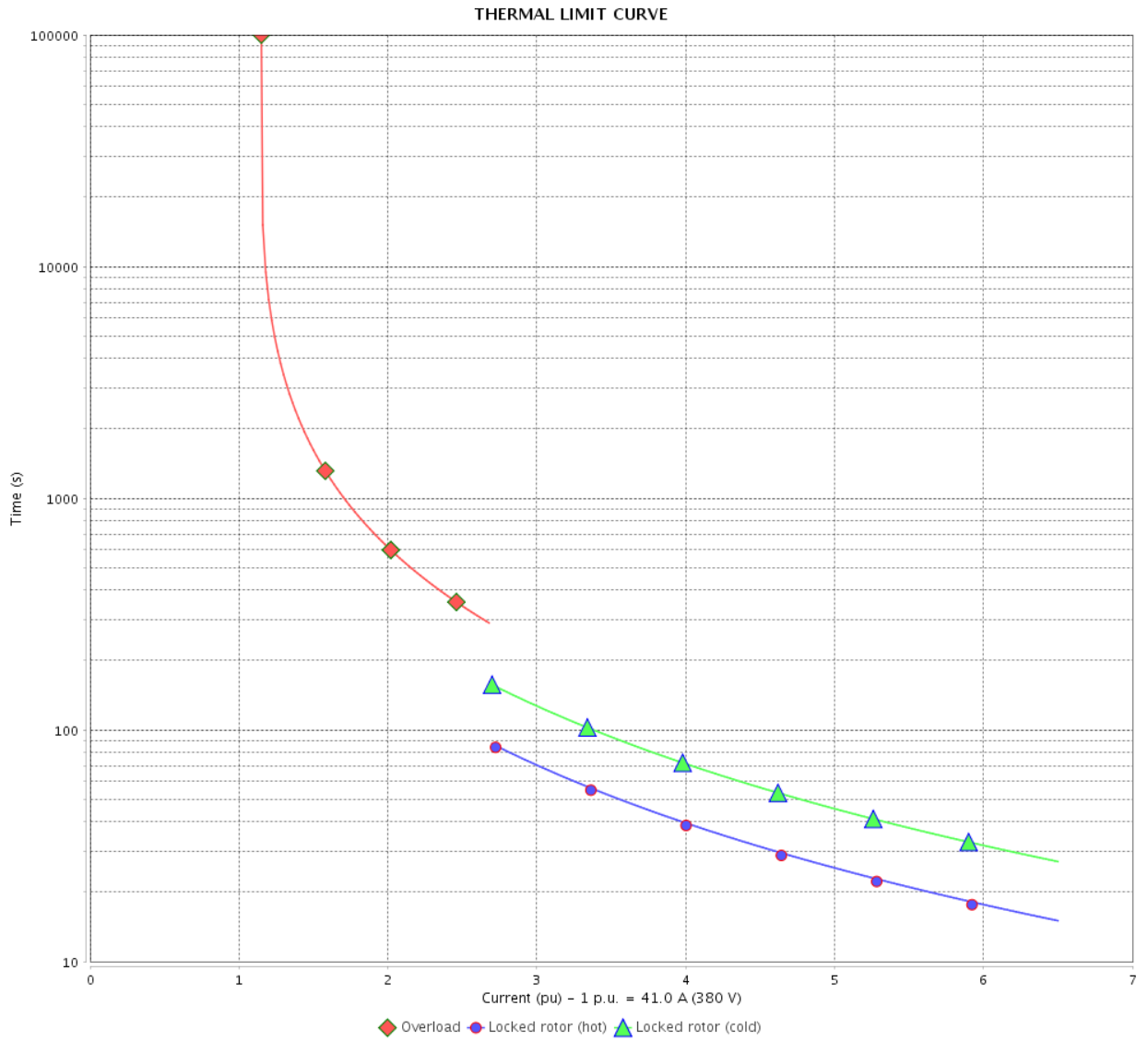
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Three Phase Induction Motor - Squirrel Cage



Customer : _____



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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase
Product code : 12603096
Catalog # : 04036ET3E324JP-W22

Performance : 400 V 50 Hz 2P IE3

Rated current	: 39.4 A	Moment of inertia (J)	: 4.90 sq.ft.lb
LRC	: 7.5	Duty cycle	: Cont.(S1)
Rated torque	: 53.1 ft.lb	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.00
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 2970 rpm	Design	: B

Heating constant

Cooling constant

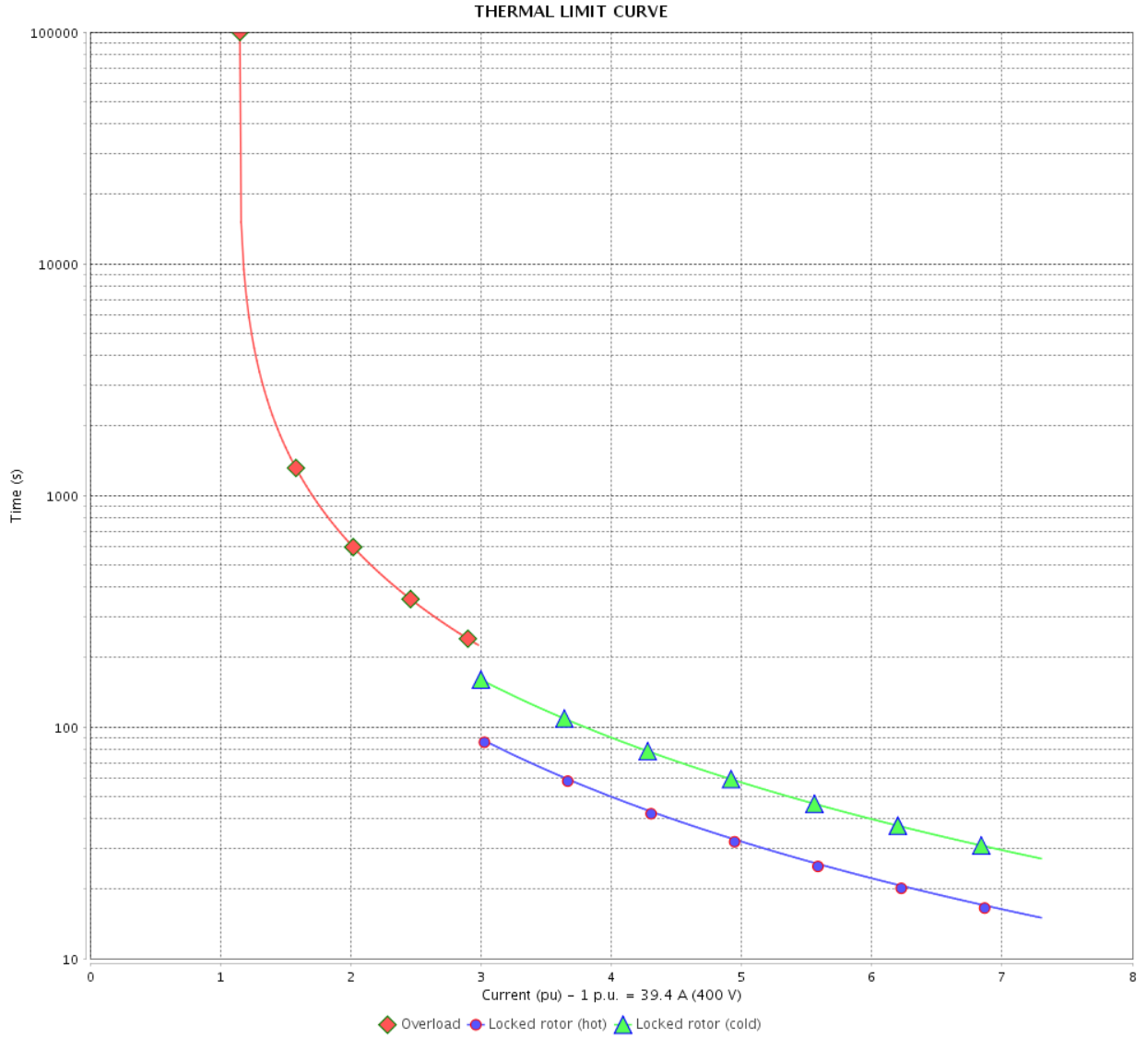
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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THERMAL LIMIT CURVE



Three Phase Induction Motor - Squirrel Cage

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Catalog # : 04036ET3E324JP-W22

Performance : 415 V 50 Hz 2P IE3

Rated current	: 38.4 A	Moment of inertia (J)	: 4.90 sq.ft.lb
LRC	: 7.6	Duty cycle	: Cont.(S1)
Rated torque	: 53.0 ft.lb	Insulation class	: F
Locked rotor torque	: 290 %	Service factor	: 1.00
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 2970 rpm	Design	: B

Heating constant

Cooling constant

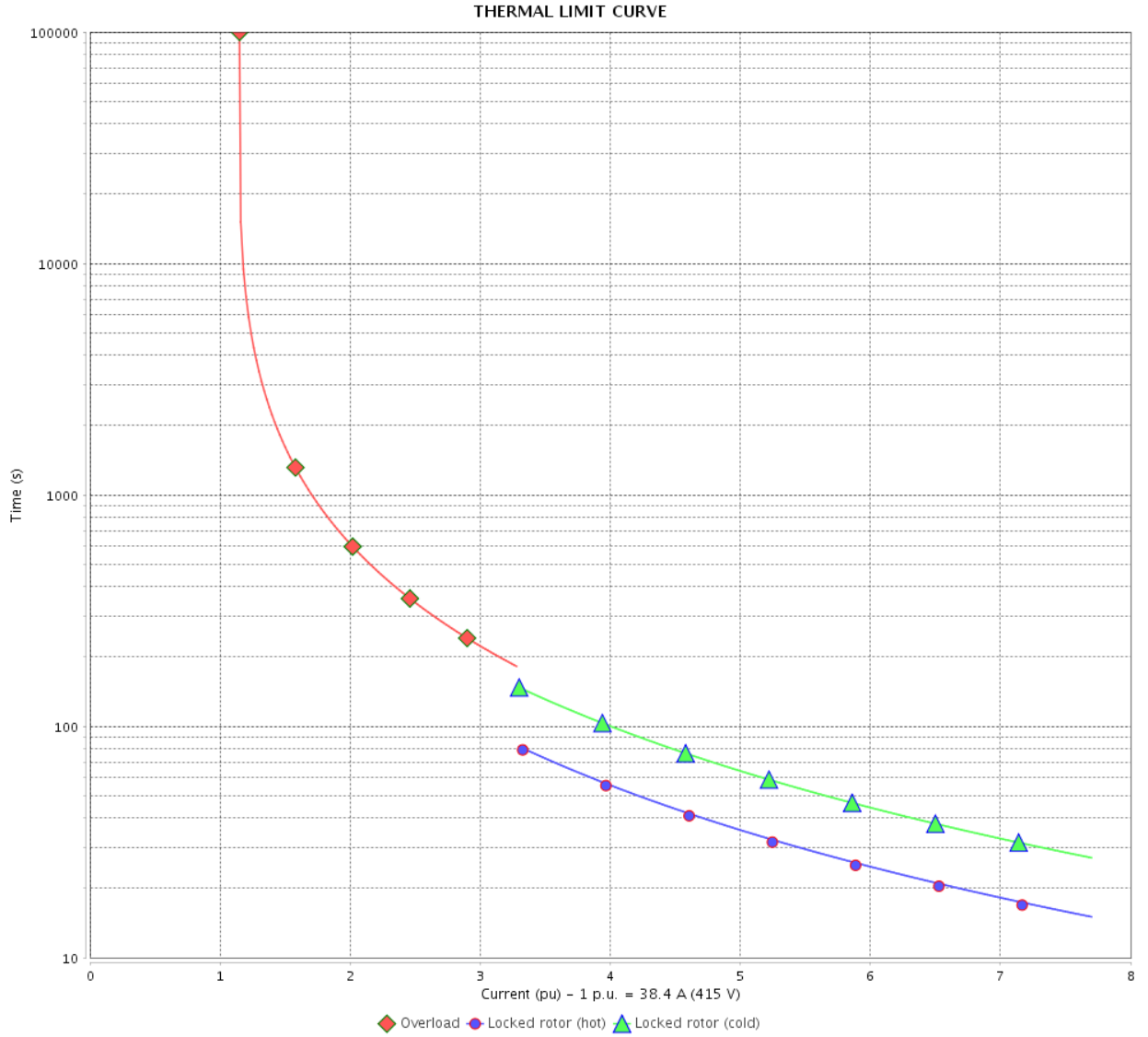
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THERMAL LIMIT CURVE

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Customer : _____



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Customer :

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Product code : 12603096
Catalog # : 04036ET3E324JP-W22

Performance : 380 V 50 Hz 2P IE1

Rated current	: 56.3 A	Moment of inertia (J)	: 4.90 sq.ft.lb
LRC	: 5.0	Duty cycle	: Cont.(S1)
Rated torque	: 71.4 ft.lb	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.00
Breakdown torque	: 200 %	Temperature rise	: 105 K
Rated speed	: 2940 rpm	Design	: B

Heating constant

Cooling constant

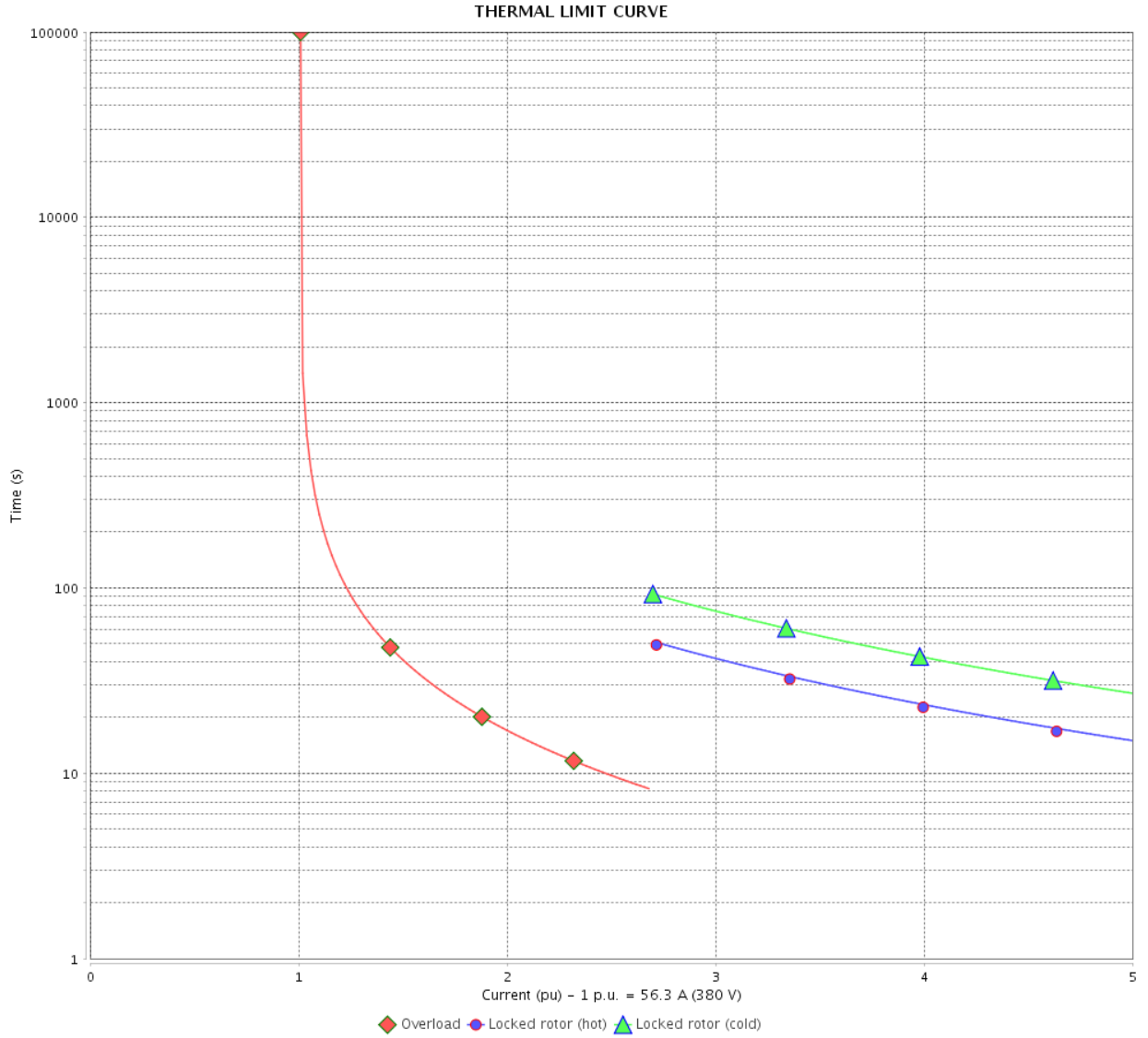
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Catalog # : 04036ET3E324JP-W22

Performance : 400 V 50 Hz 2P IE1

Rated current	: 53.1 A	Moment of inertia (J)	: 4.90 sq.ft.lb
LRC	: 5.6	Duty cycle	: Cont.(S1)
Rated torque	: 71.3 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.00
Breakdown torque	: 210 %	Temperature rise	: 105 K
Rated speed	: 2945 rpm	Design	: B

Heating constant

Cooling constant

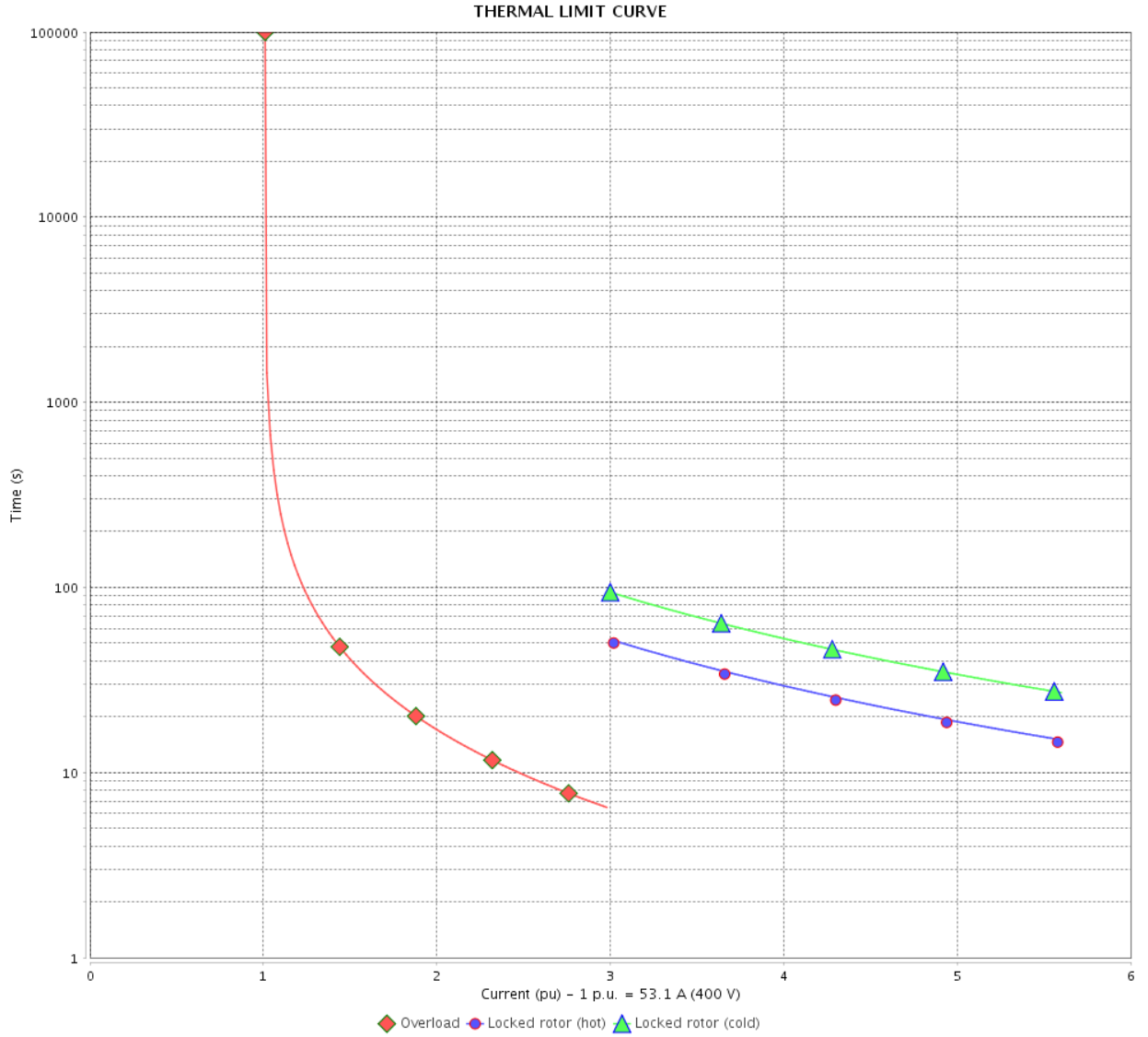
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Performed by				
Checked by			Page	Revision
Date	13/04/2022		26 / 36	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



Rev.	Changes Summary	Performed	Checked	Date
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 : 12603096
Catalog # : 04036ET3E324JP-W22

Performance : 415 V 50 Hz 2P IE1

Rated current	: 51.7 A	Moment of inertia (J)	: 4.90 sq.ft.lb
LRC	: 6.2	Duty cycle	: Cont.(S1)
Rated torque	: 71.2 ft.lb	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.00
Breakdown torque	: 229 %	Temperature rise	: 105 K
Rated speed	: 2955 rpm	Design	: B

Heating constant

Cooling constant

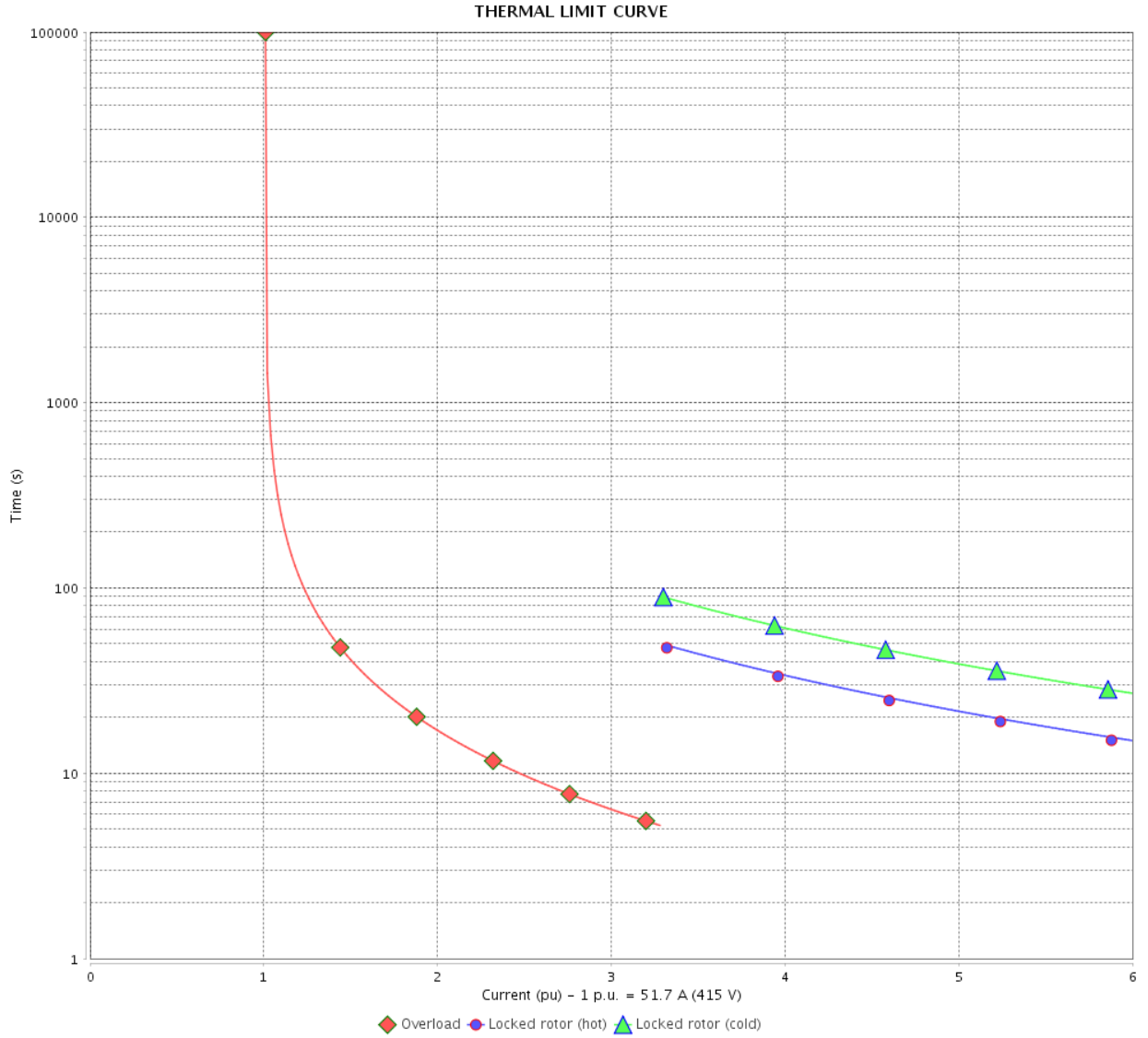
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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Performed by		Page Revision 29 / 36		
Checked by				
Date				

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



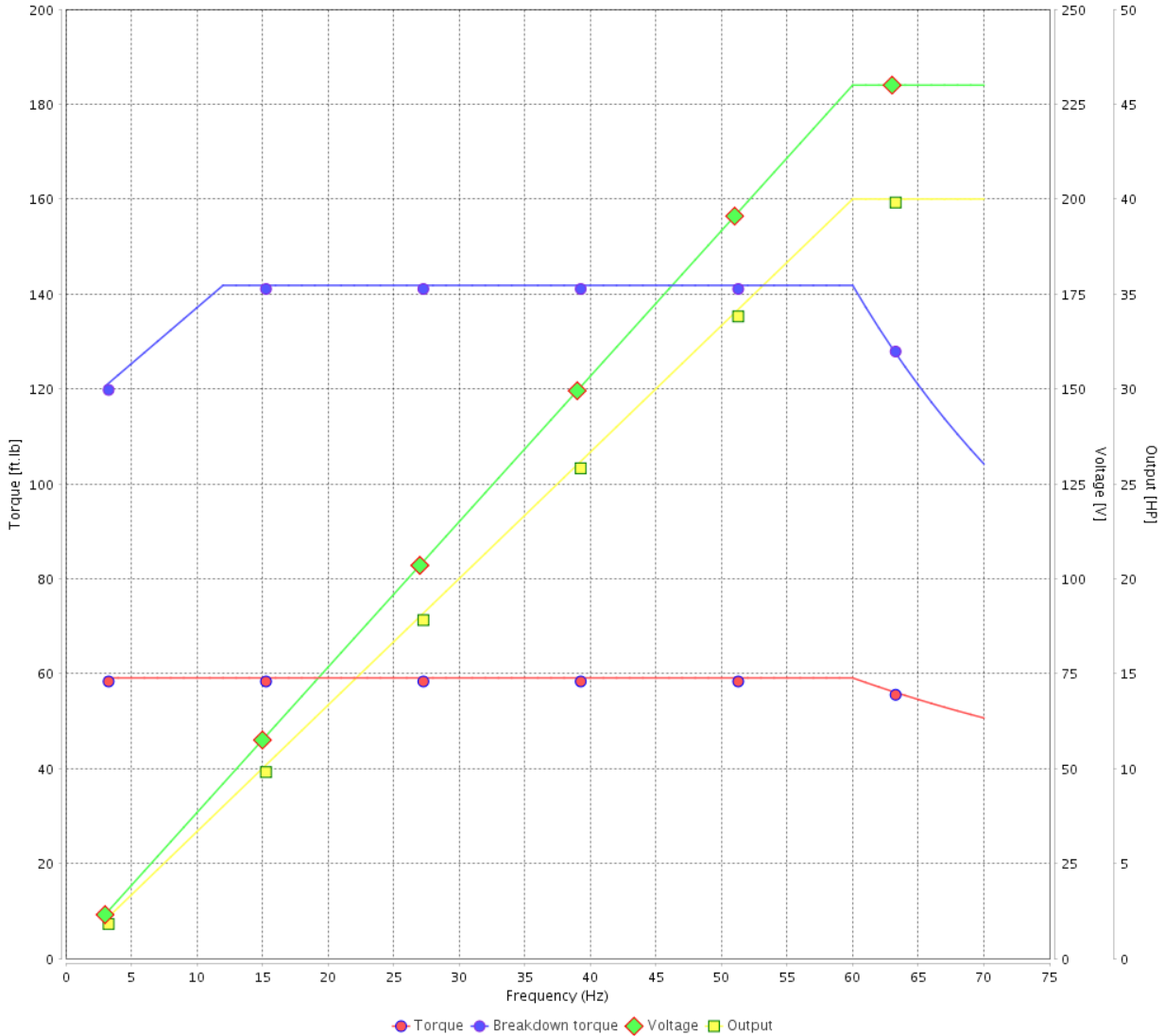
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12603096

Catalog # : 04036ET3E324JP-W22

VFD OPERATION CURVE



Performance : 230/460 V 60 Hz 2P

Rated current : 92.6/46.3 A
 LRC : 6.3
 Rated torque : 59.1 ft.lb
 Locked rotor torque : 250 %
 Breakdown torque : 240 %
 Rated speed : 3560 rpm

Moment of inertia (J) : 4.90 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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Performed by			Page 30 / 36	Revision
Checked by				
Date	13/04/2022			

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

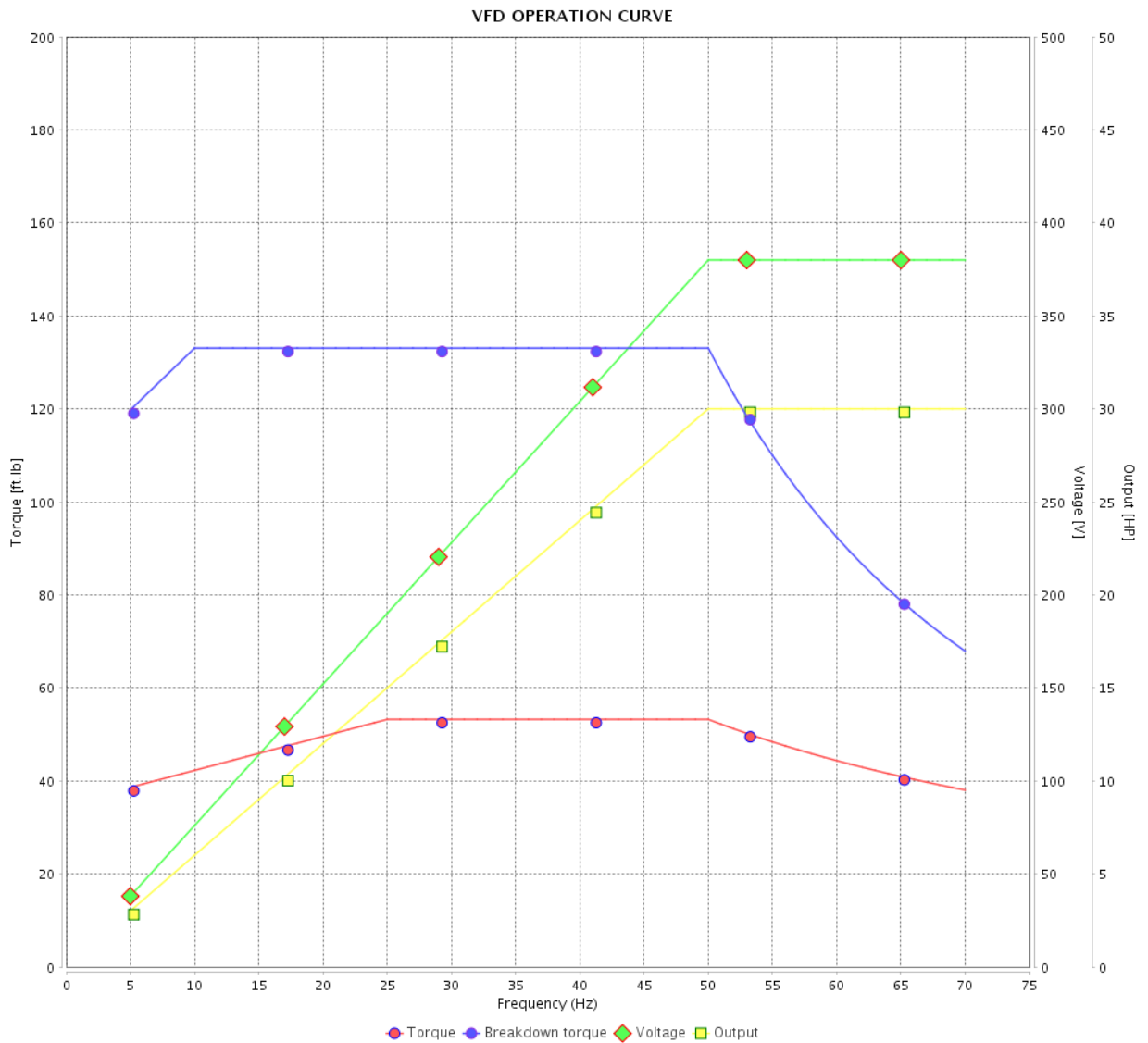


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12603096

Catalog # : 04036ET3E324JP-W22



Performance : 380 V 50 Hz 2P IE3

Rated current : 41.0 A
 LRC : 7.2
 Rated torque : 53.2 ft.lb
 Locked rotor torque : 240 %
 Breakdown torque : 250 %
 Rated speed : 2965 rpm

Moment of inertia (J) : 4.90 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		31 / 36		
Date		13/04/2022		

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



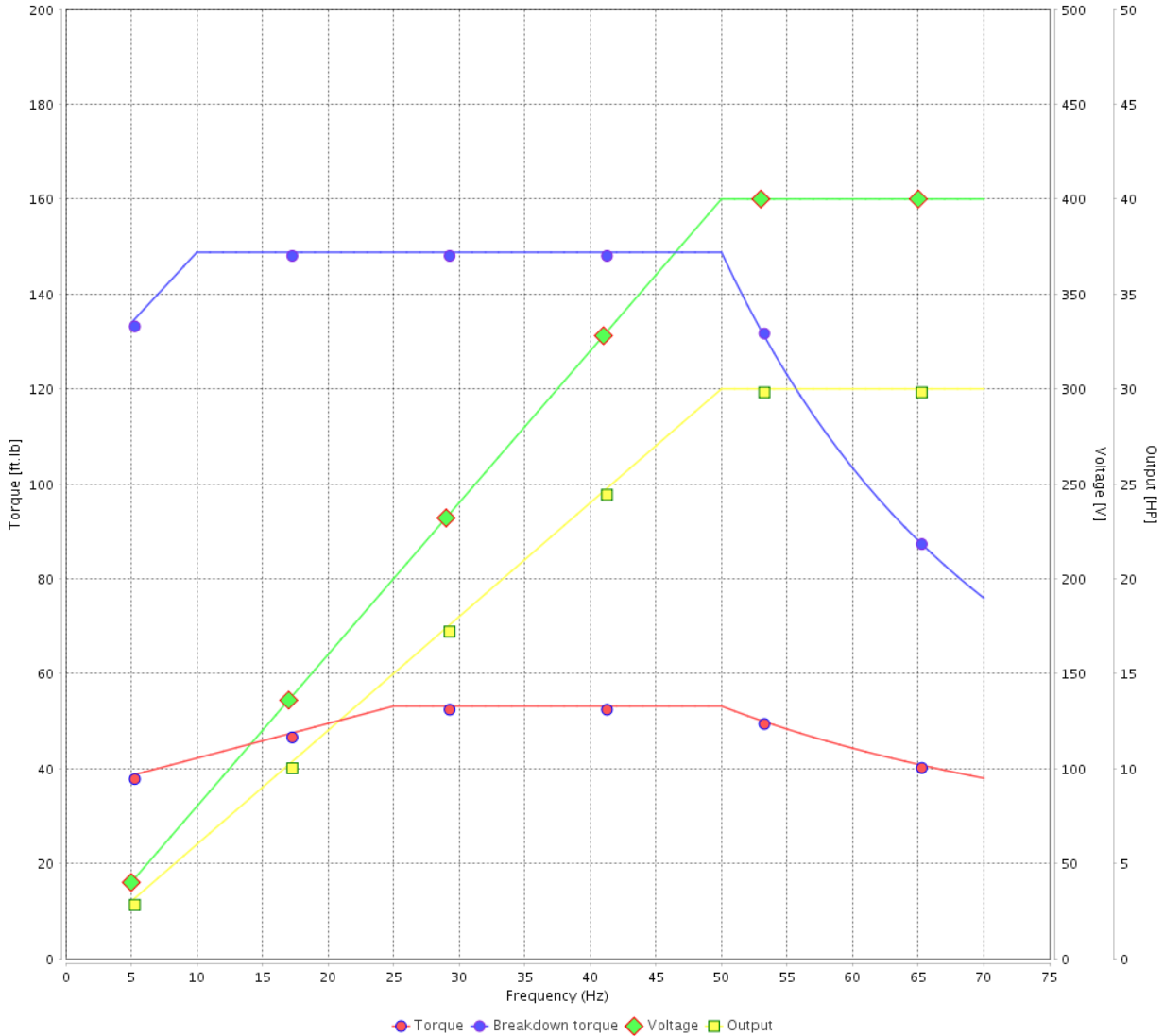
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12603096

Catalog # : 04036ET3E324JP-W22

VFD OPERATION CURVE



Performance : 400 V 50 Hz 2P IE3

Rated current : 39.4 A
 LRC : 7.5
 Rated torque : 53.1 ft.lb
 Locked rotor torque : 270 %
 Breakdown torque : 280 %
 Rated speed : 2970 rpm

Moment of inertia (J) : 4.90 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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Performed by			Page 32 / 36	Revision
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Date	13/04/2022			

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

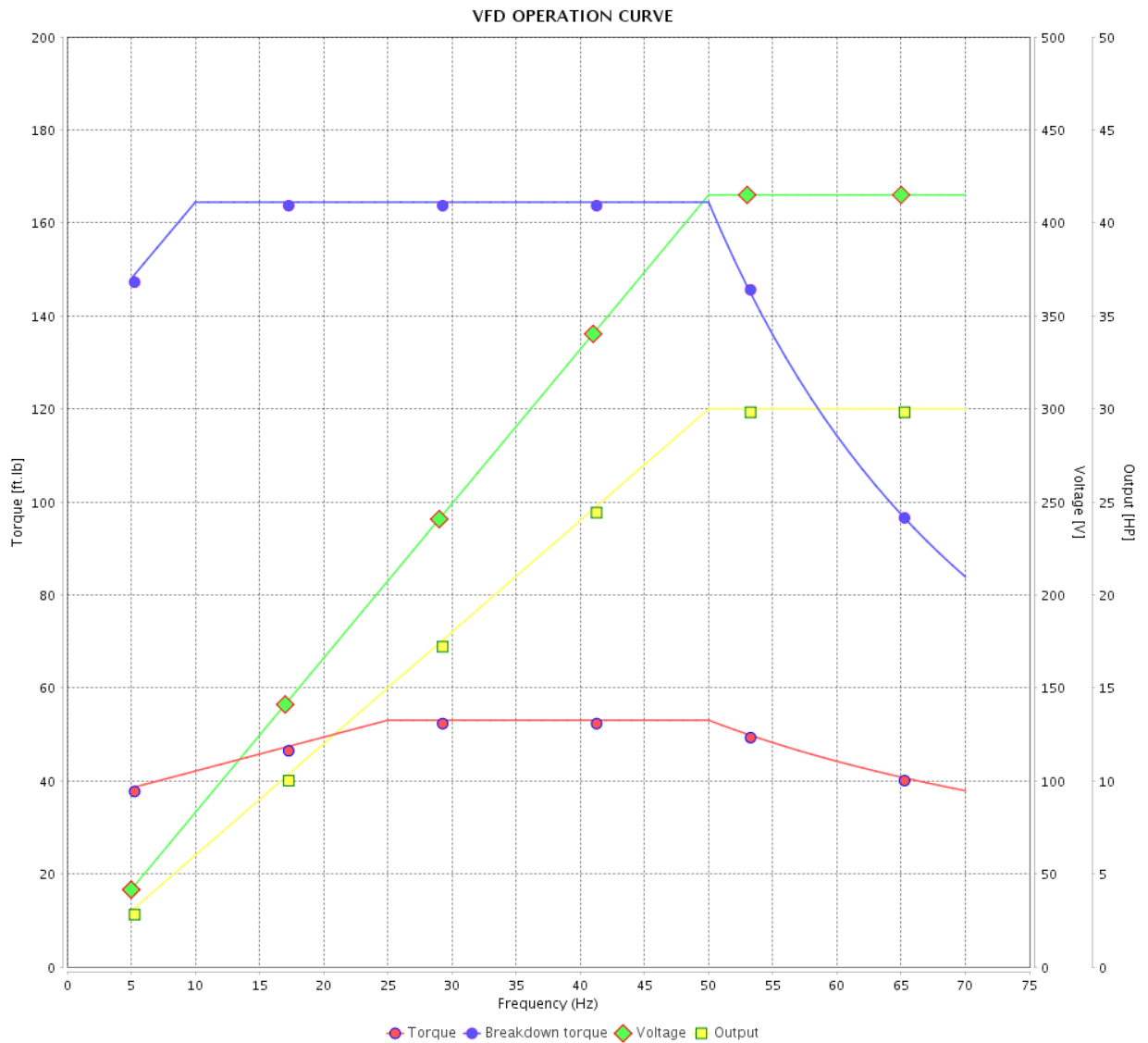


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12603096

Catalog # : 04036ET3E324JP-W22



Performance : 415 V 50 Hz 2P IE3

Rated current : 38.4 A
 LRC : 7.6
 Rated torque : 53.0 ft.lb
 Locked rotor torque : 290 %
 Breakdown torque : 310 %
 Rated speed : 2970 rpm

Moment of inertia (J) : 4.90 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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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



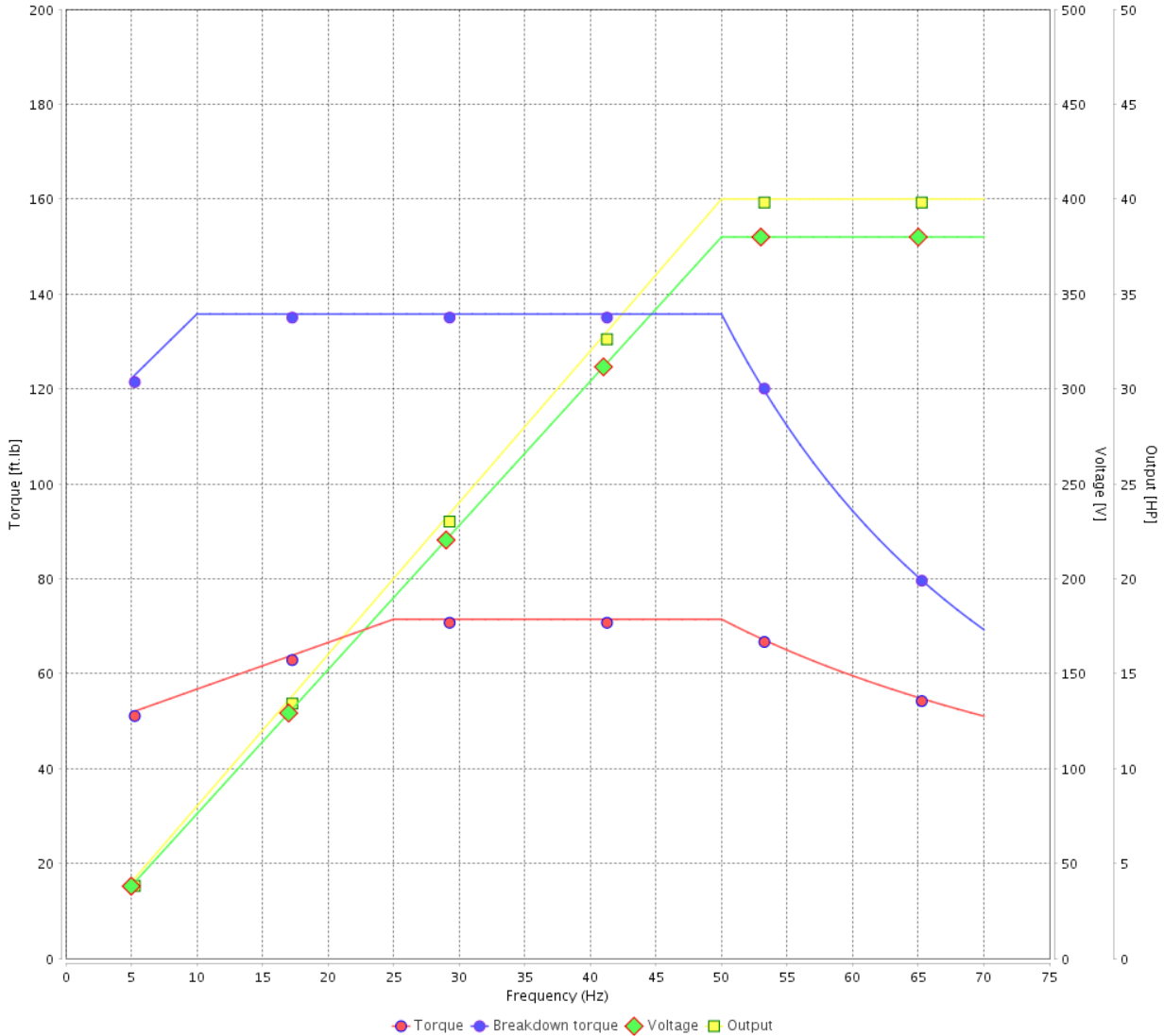
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Product line : NEMA Premium Efficiency Three-Phase

Product code : 12603096

Catalog # : 04036ET3E324JP-W22

VFD OPERATION CURVE



Performance : 380 V 50 Hz 2P IE1

Rated current : 56.3 A
 LRC : 5.0
 Rated torque : 71.4 ft.lb
 Locked rotor torque : 180 %
 Breakdown torque : 200 %
 Rated speed : 2940 rpm

Moment of inertia (J) : 4.90 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 34 / 36	Revision
Checked by				
Date	13/04/2022			

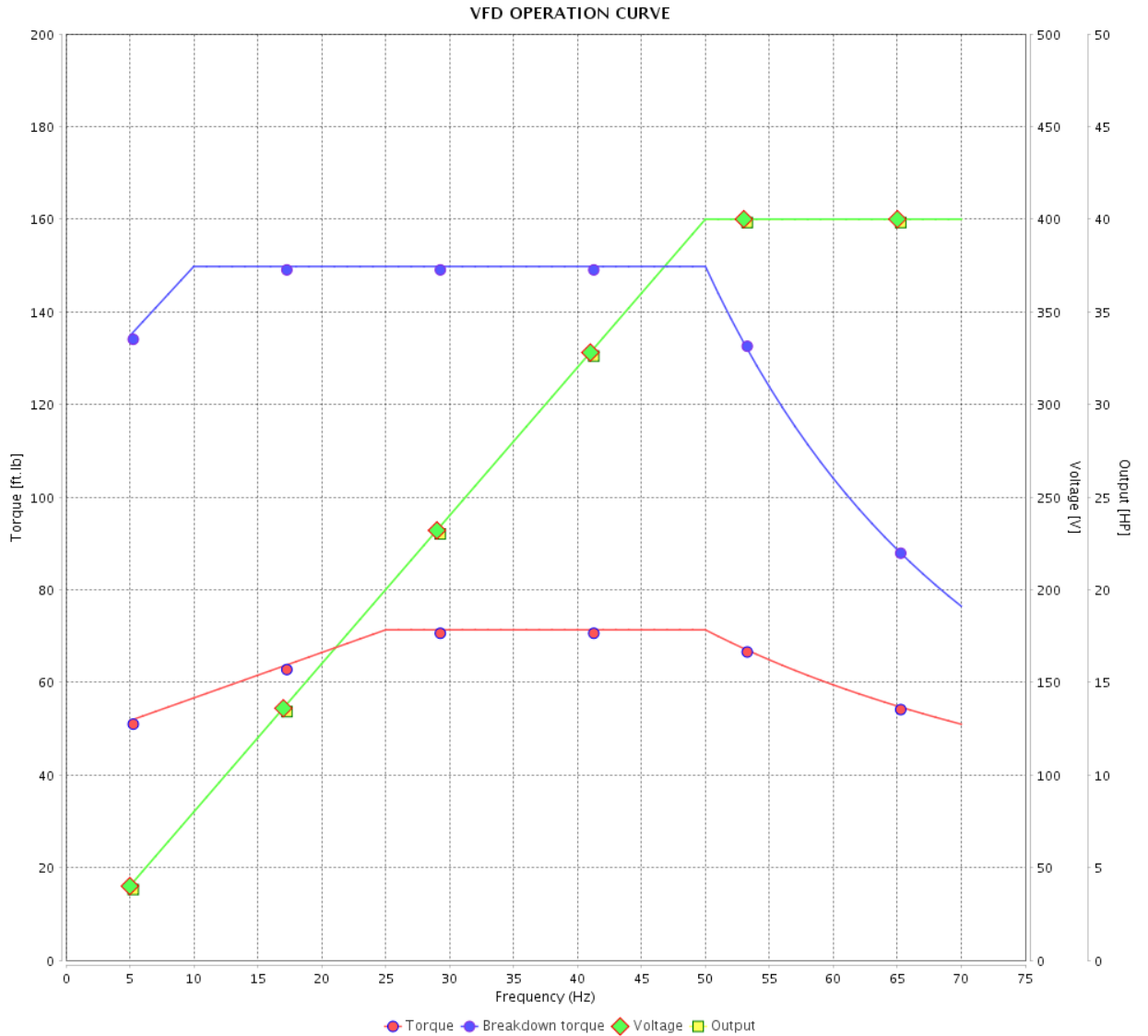
VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : NEMA Premium Efficiency Three-Phase Product code : 12603096
 Catalog # : 04036ET3E324JP-W22



Performance : 400 V 50 Hz 2P IE1

Rated current	: 53.1 A	Moment of inertia (J)	: 4.90 sq.ft.lb
LRC	: 5.6	Duty cycle	: Cont.(S1)
Rated torque	: 71.3 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.00
Breakdown torque	: 210 %	Temperature rise	: 105 K
Rated speed	: 2945 rpm	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



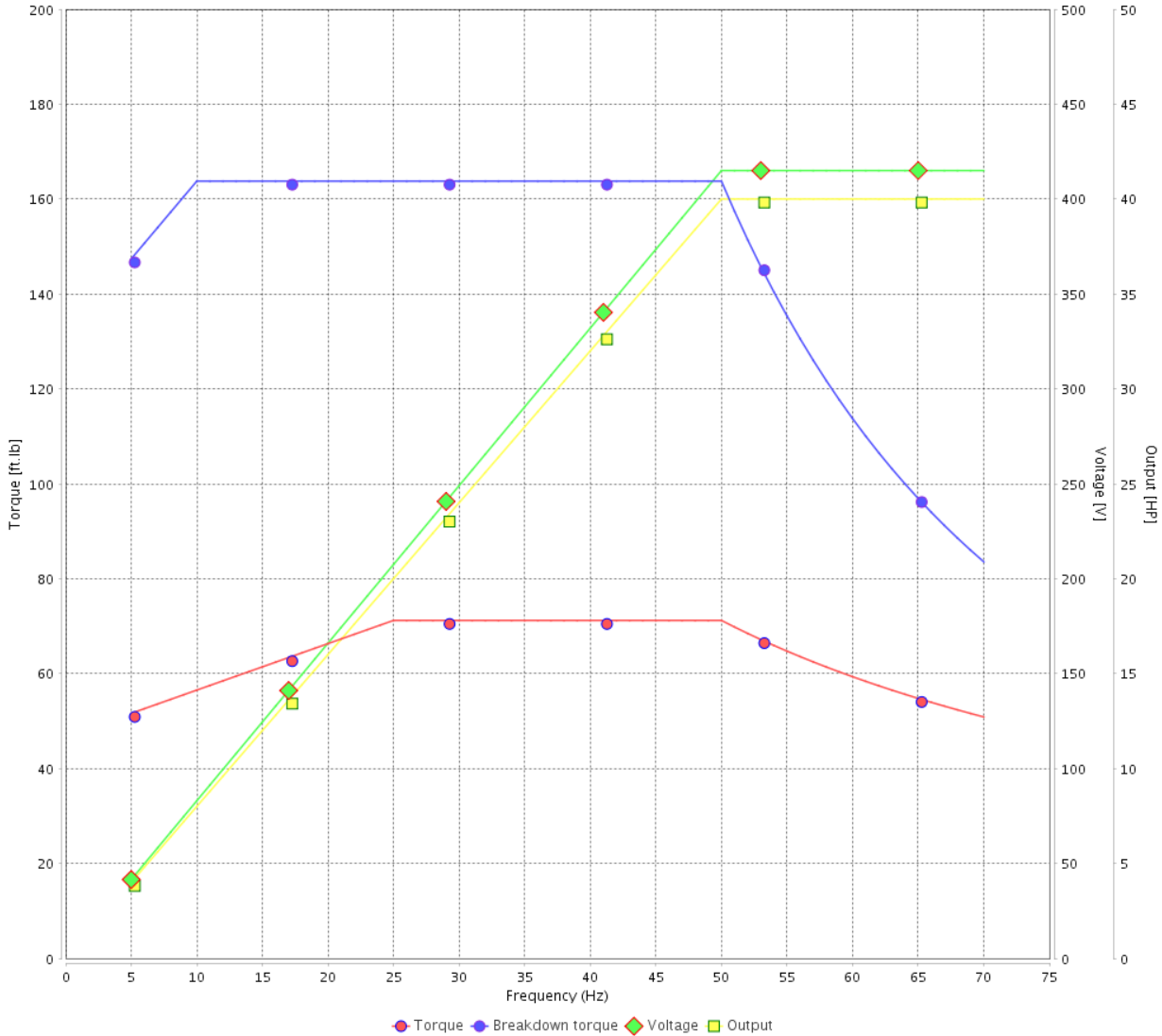
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12603096

Catalog # : 04036ET3E324JP-W22

VFD OPERATION CURVE



Performance : 415 V 50 Hz 2P IE1

Rated current	: 51.7 A	Moment of inertia (J)	: 4.90 sq.ft.lb
LRC	: 6.2	Duty cycle	: Cont.(S1)
Rated torque	: 71.2 ft.lb	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.00
Breakdown torque	: 229 %	Temperature rise	: 105 K
Rated speed	: 2955 rpm	Design	: B

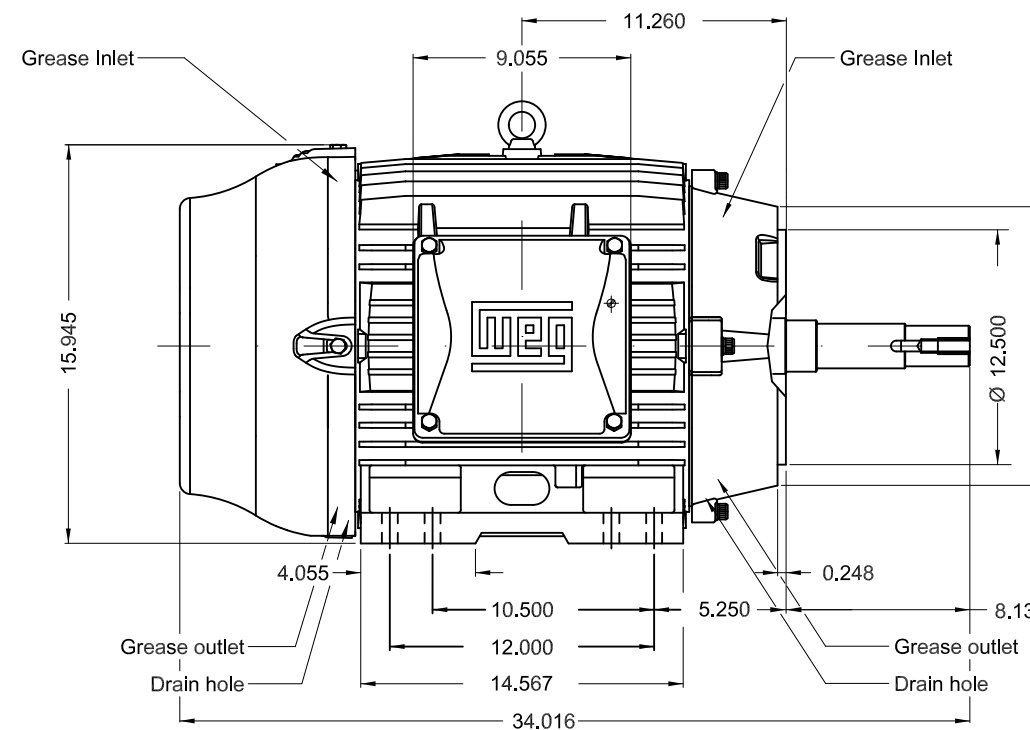
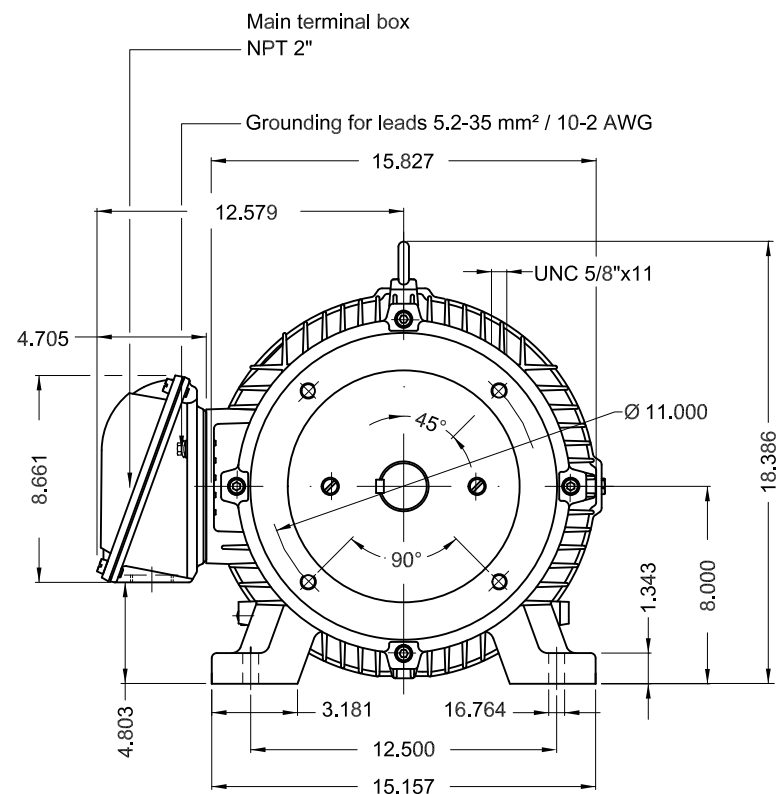
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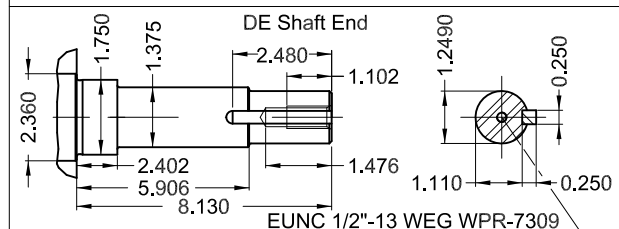
A

B

C



D

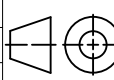


E

Color RAL 5009
 Painting plan 203A
 Mounting B34R(D)

40 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. FRAME 324/6JP IP55 TEFC					
CHECKED							
RELEASED							
REL DT.	WMO		Jaragua do Sul	Product Engineering	SHEET	1 / 1	

PREVIEW
 WDD



Dimensions in inches

XME A3



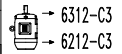
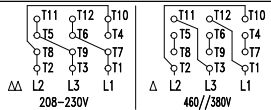
FOR SAFE AREA
MOD.TE1BFOXON



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 - T4
For 60Hz use on PWM, Gr. A, B, C, D and F,
VT 1000:1, CT 20:1, 1.0SF, T3A

MODEL 04036ET3E324JP-W22
MADE IN BRAZIL
12603096

PH 3	FR 324/6JP	HP(kW) 40.0(30.0)	Hz 60
V 230/460	A 92.6/46.3	RPM 3560	DES B
NEMA NOM EFF 92.4 %	INS. CL. F ΔT 80 K	IP55	
ENCL TEFC	DUTY CONT.	AMB. 40°C	
CODE G	PF 0.88	SF 1.25	SFA 116/57.9
USABLE @208V 101 A	SF 1.10	SFA 111	
40HP 30kW 50Hz 380V 56.3A 2940RPM SF1.00 EFF 91.0% (IE1)	ALT 1000 m.a.s.l.	556 Lbs	



MOBIL POLYREX EM
21 g 12000 h