

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer							
Product line	: NEMA Premium Efficiency Three-Phase	Product code	: 12448181				
		Catalog #	: 04036ET3E324TS-W22				
Frame	: 324/6TS	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	: 550 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]	91.6/45.8	40.5	38.5	37.5	56.3	53.1	51.1
L. R. Amperes [A]	577/289	263	281	289	282	297	307
LRC [A]	6.3x(Code G)	6.5x(Code G)	7.3x(Code H)	7.7x(Code H)	5.0x(Code E)	5.6x(Code F)	6.0x(Code F)
No load current [A]	22.0/11.0	10.8	11.8	12.5	10.8	11.8	12.5
Rated speed [RPM]	3555	2960	2965	2970	2940	2945	2950
Slip [%]	1.25	1.33	1.17	1.00	2.00	1.83	1.67
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	190	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	80 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%						
	50%	91.7	90.9	90.3	90.7	91.7	91.7
	75%	92.4	91.8	91.7	92.1	91.7	91.7
	100%	92.4	92.7	92.7	92.7	91.0	91.7
Power Factor	25%						
	50%	0.82	0.77	0.75	0.73	0.85	0.83
	75%	0.87	0.86	0.85	0.84	0.88	0.88
	100%	0.89	0.89	0.89	0.88	0.89	0.89
Bearing type	: 6312 C3	Non drive end	6212 C3				
Sealing	: V'Ring	V'Ring	V'Ring				
Lubrication interval	: 12000 h	15000 h	15000 h				
Lubricant amount	: 21 g	13 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



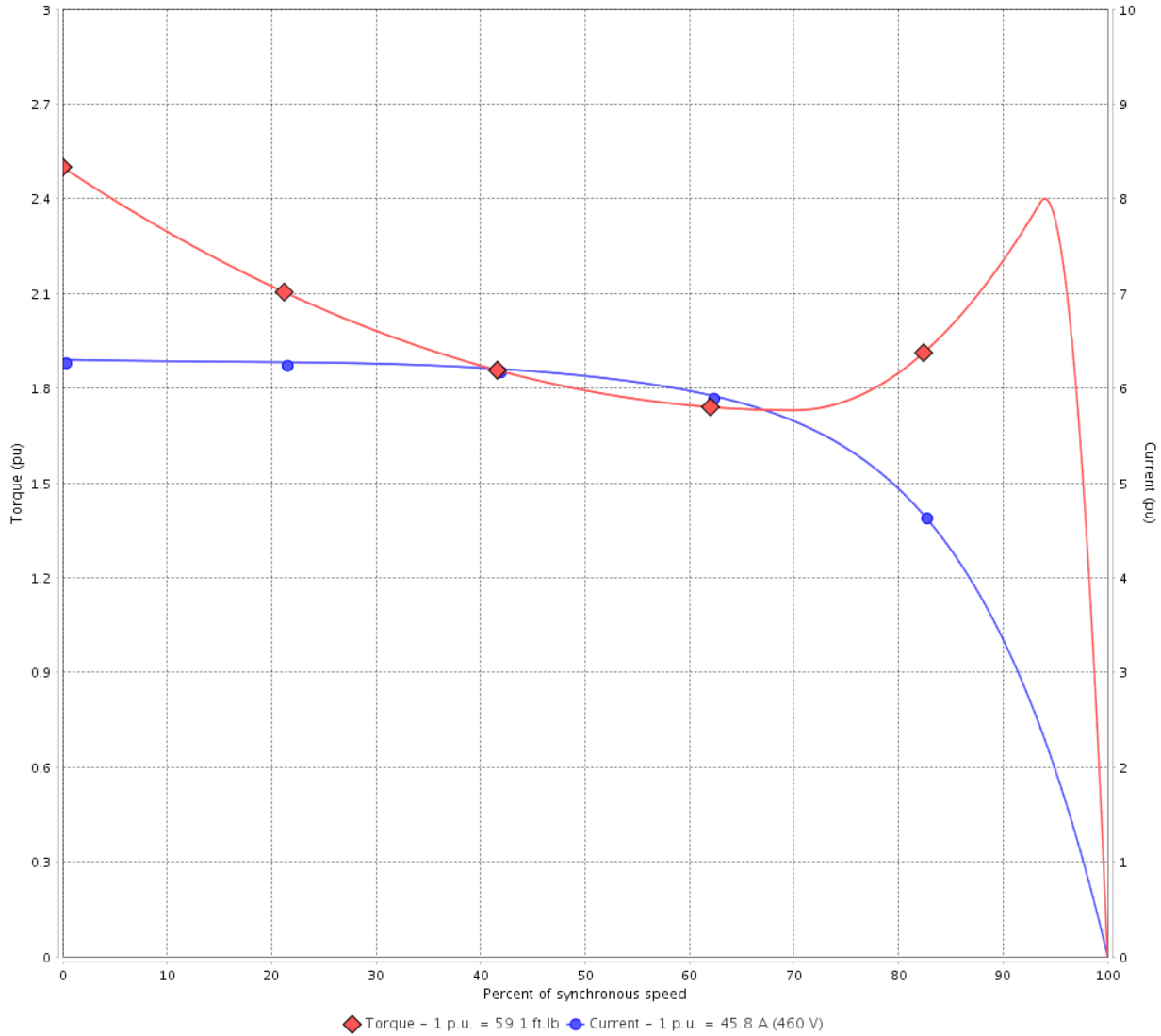
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12448181

Catalog # : 04036ET3E324TS-W22

TORQUE AND CURRENT VS SPEED CURVE



Performance : 230/460 V 60 Hz 2P

Rated current	: 91.6/45.8 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	: 3555 rpm	Design	: B

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

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TORQUE AND CURRENT VS SPEED CURVE



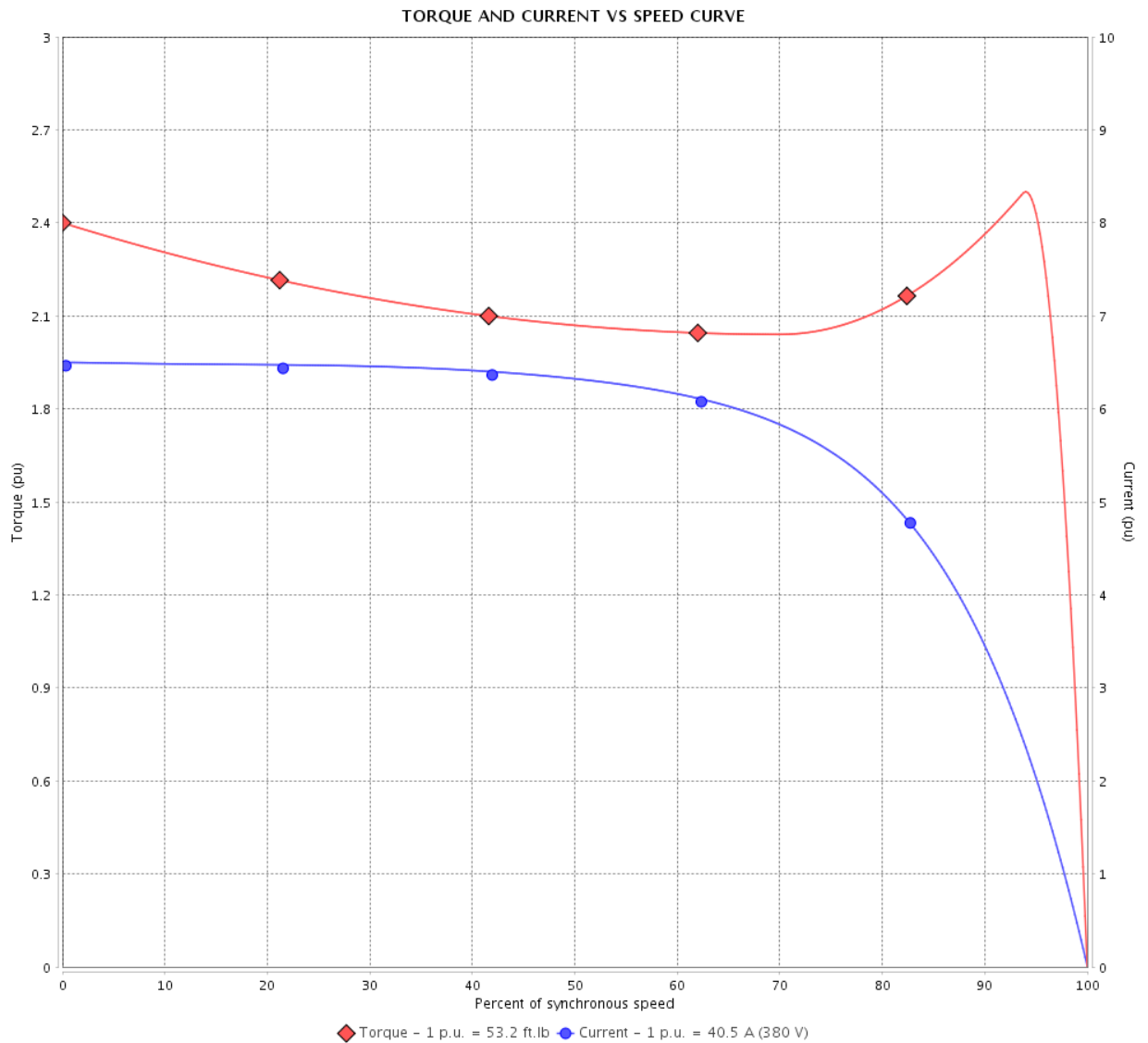
Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12448181

Catalog # : 04036ET3E324TS-W22



Performance : 380 V 50 Hz 2P IE3

Rated current	: 40.5 A	Moment of inertia (J)	: 4.90 sq.ft.lb
LRC	: 6.5	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	: 2960 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



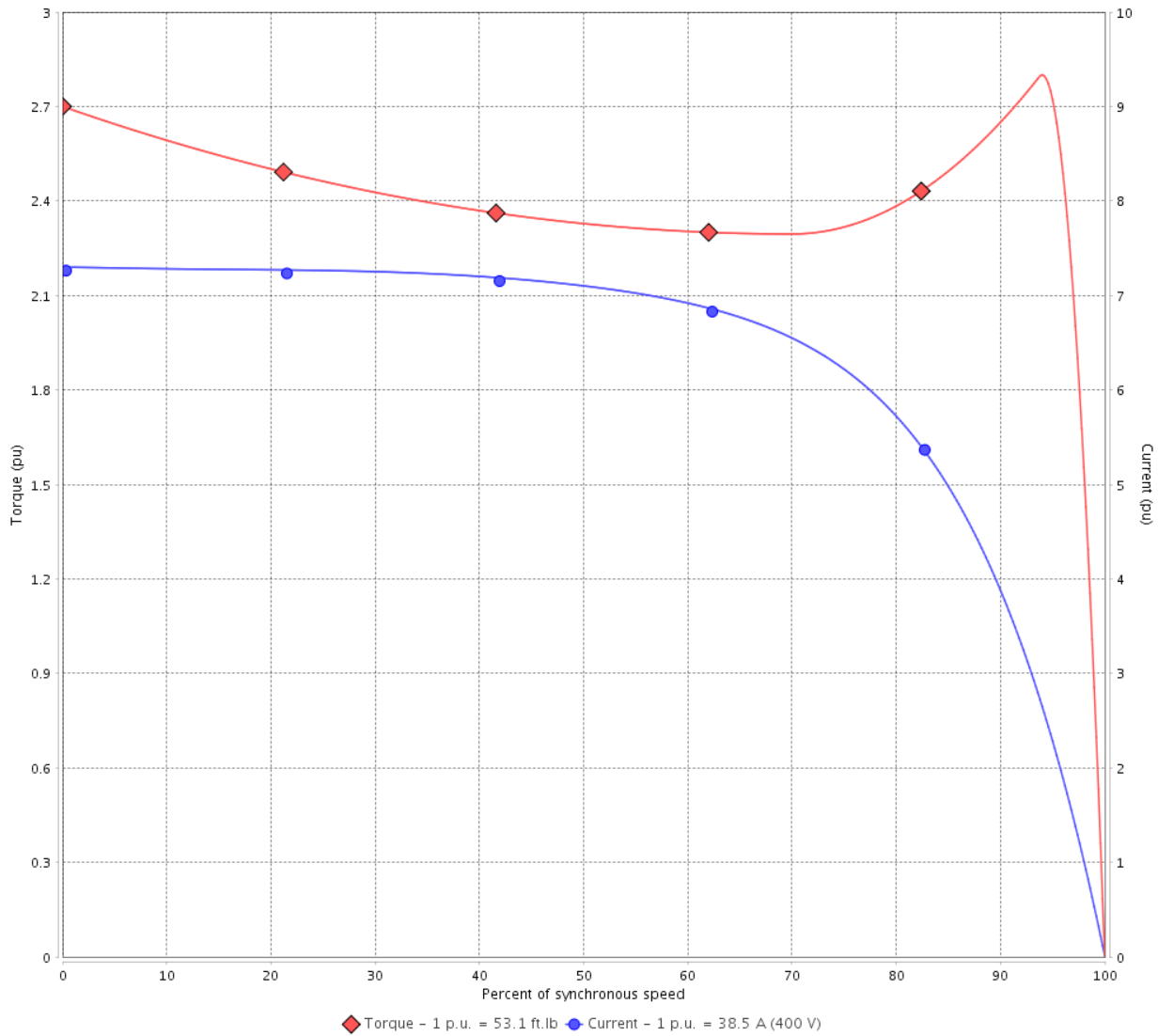
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Product line : NEMA Premium Efficiency Three-Phase

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TORQUE AND CURRENT VS SPEED CURVE



Performance : 400 V 50 Hz 2P IE3

Rated current	: 38.5 A	Moment of inertia (J)	: 4.90 sq.ft.lb
LRC	: 7.3	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	: 2965 rpm	Design	: B

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

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TORQUE AND CURRENT VS SPEED CURVE



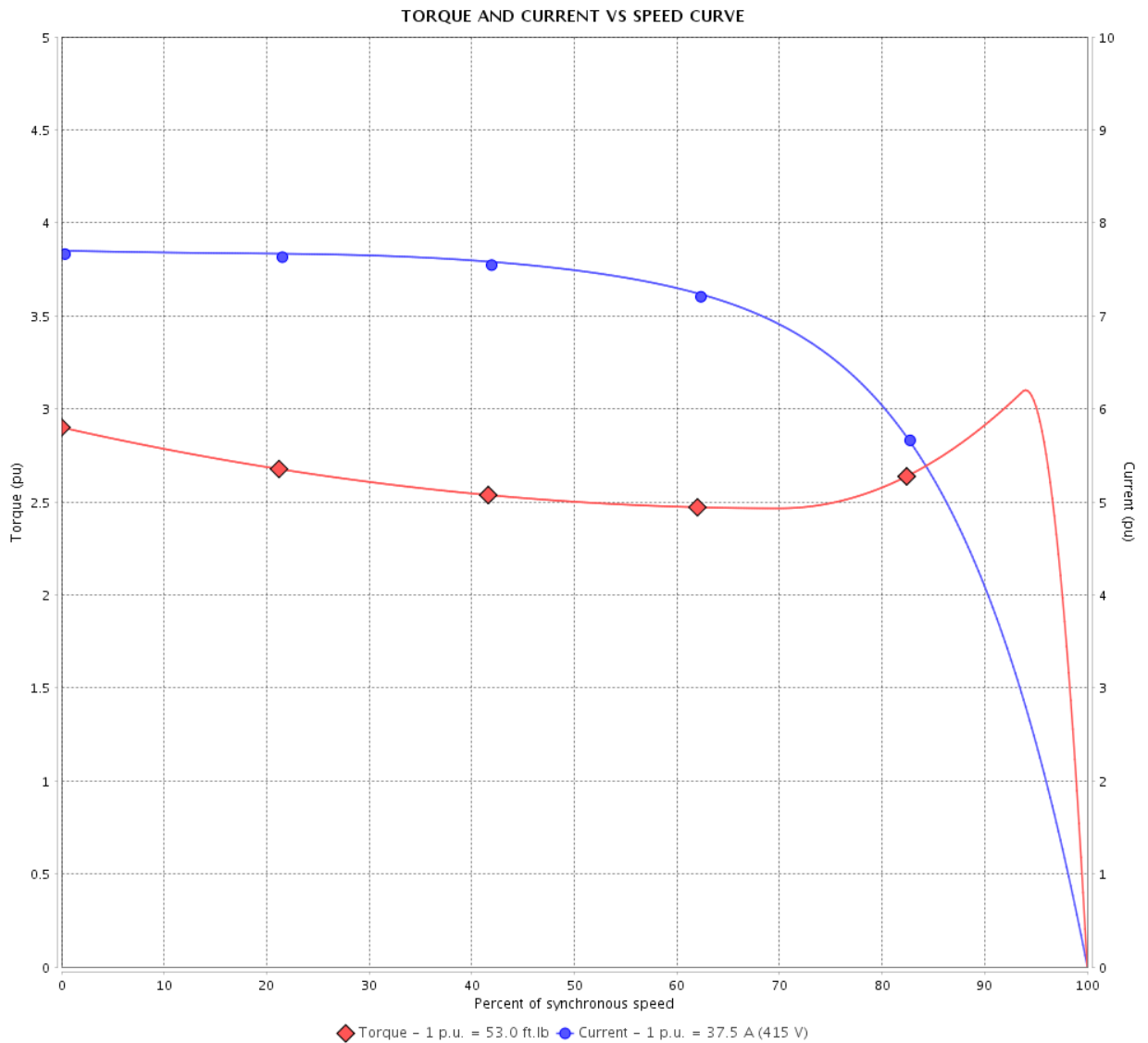
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Performance : 415 V 50 Hz 2P IE3

Rated current	: 37.5 A	Moment of inertia (J)	: 4.90 sq.ft.lb
LRC	: 7.7	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

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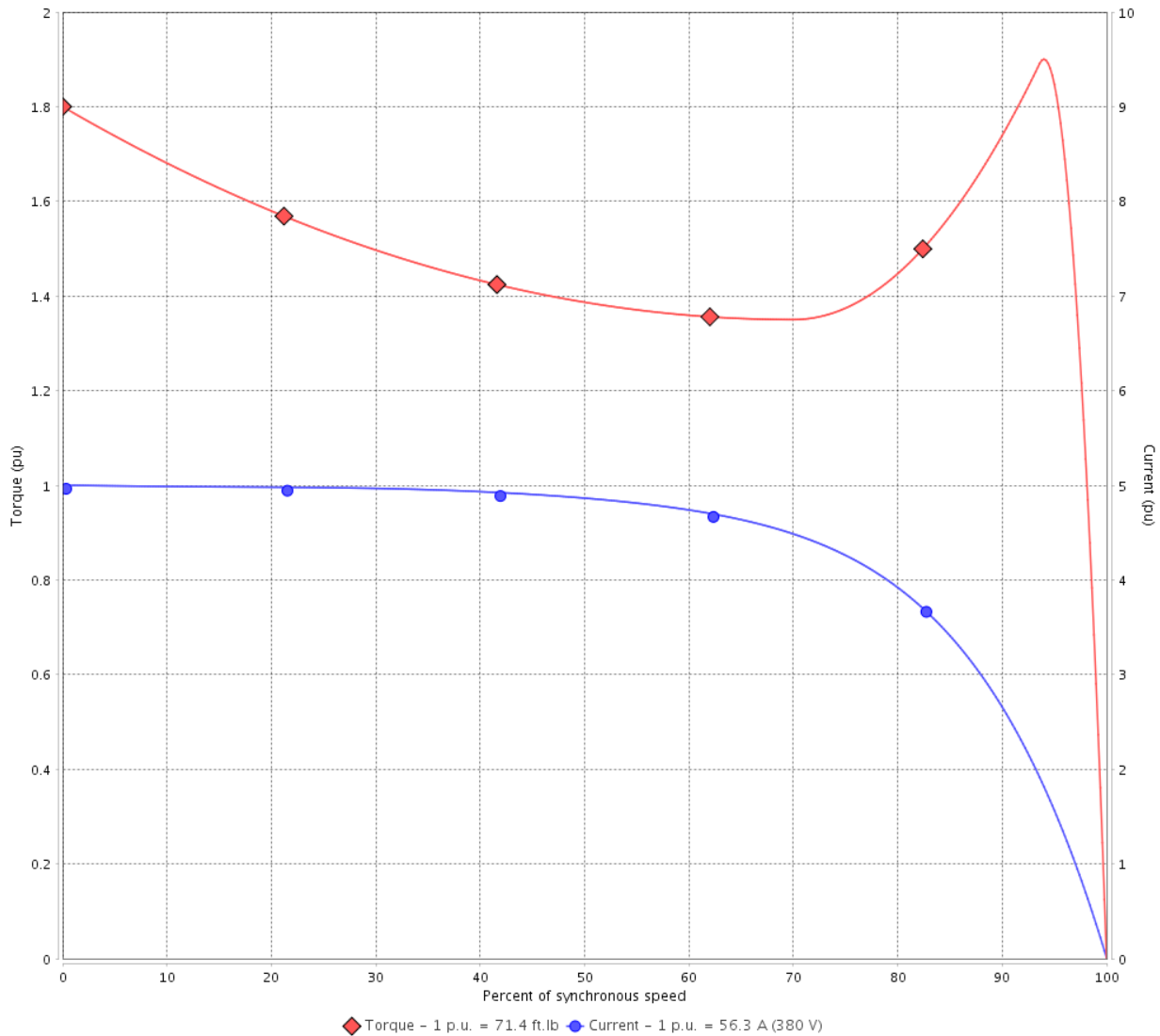
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TORQUE AND CURRENT VS SPEED CURVE



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	: 190 %	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



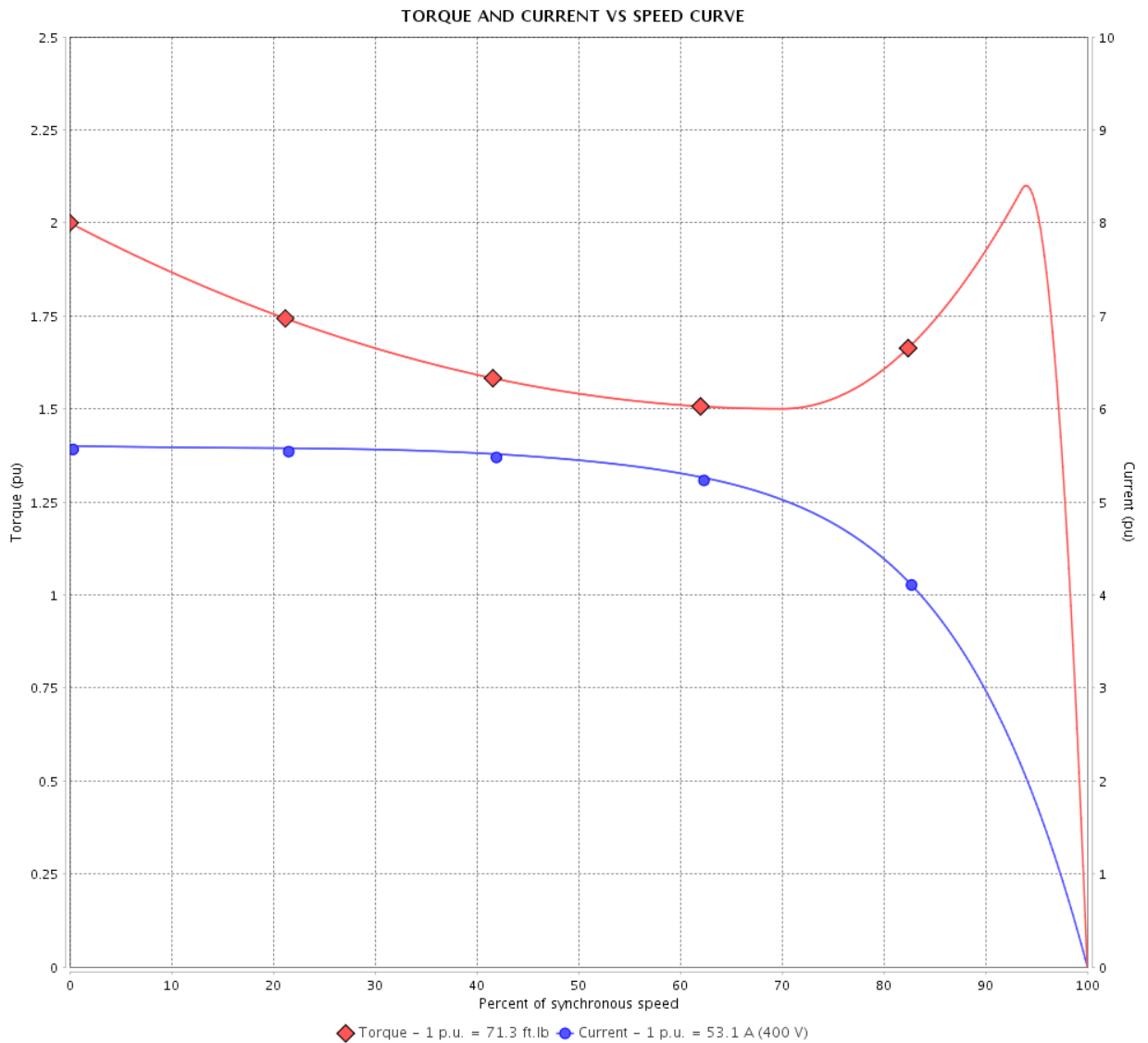
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Catalog # : 04036ET3E324TS-W22



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



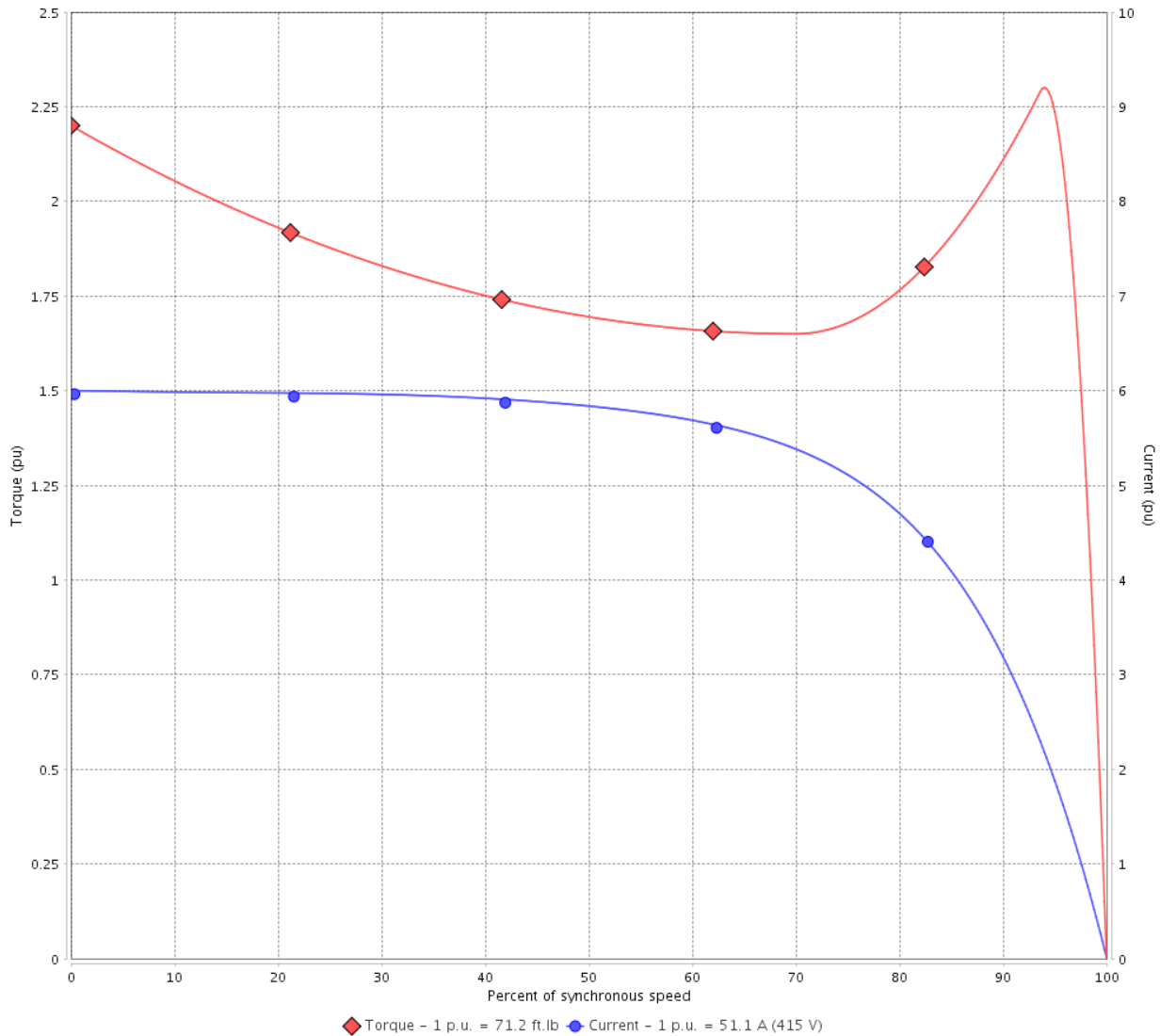
Customer :

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Product code : 12448181

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TORQUE AND CURRENT VS SPEED CURVE



Performance : 415 V 50 Hz 2P IE1

Rated current	: 51.1 A	Moment of inertia (J)	: 4.90 sq.ft.lb
LRC	: 6.0	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	: 80 K
Rated speed	: 2950 rpm	Design	: B

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

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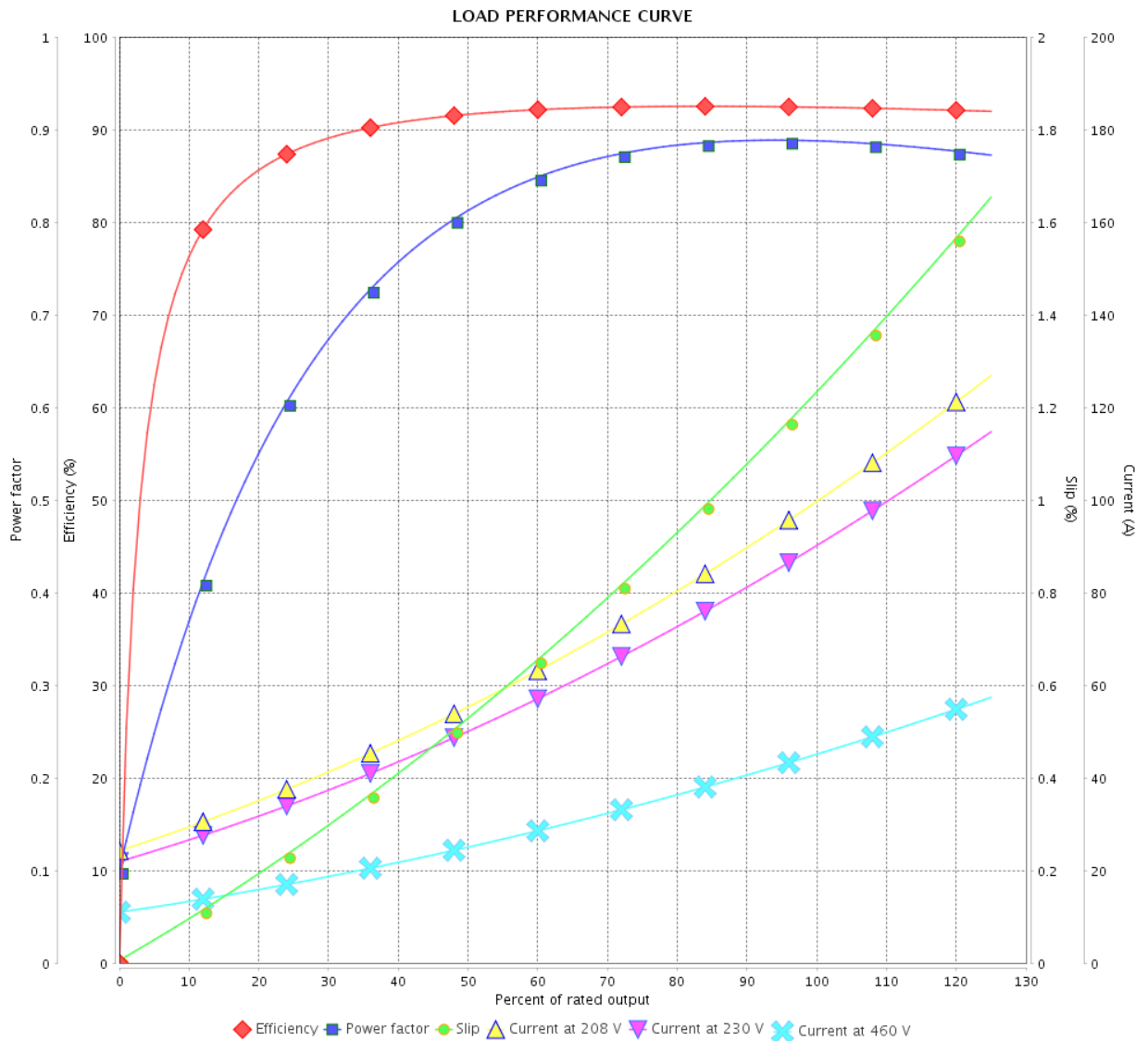


Customer :

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Product code : 12448181

Catalog # : 04036ET3E324TS-W22



Performance : 230/460 V 60 Hz 2P

Rated current : 91.6/45.8 A
 LRC : 6.3
 Rated torque : 59.1 ft.lb
 Locked rotor torque : 250 %
 Breakdown torque : 240 %
 Rated speed : 3555 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



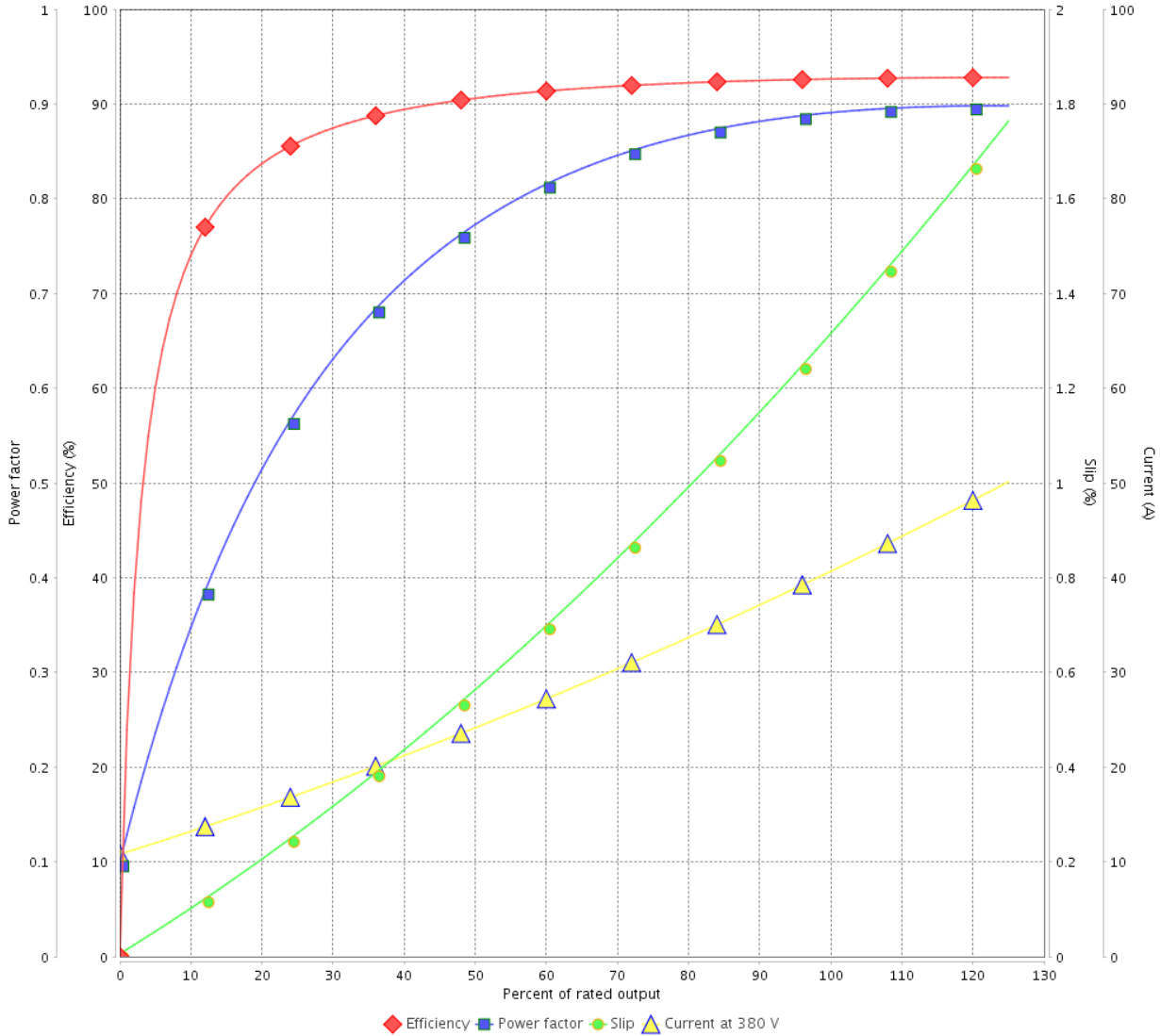
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12448181

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Performance : 380 V 50 Hz 2P IE3

Rated current : 40.5 A
 LRC : 6.5
 Rated torque : 53.2 ft.lb
 Locked rotor torque : 240 %
 Breakdown torque : 250 %
 Rated speed : 2960 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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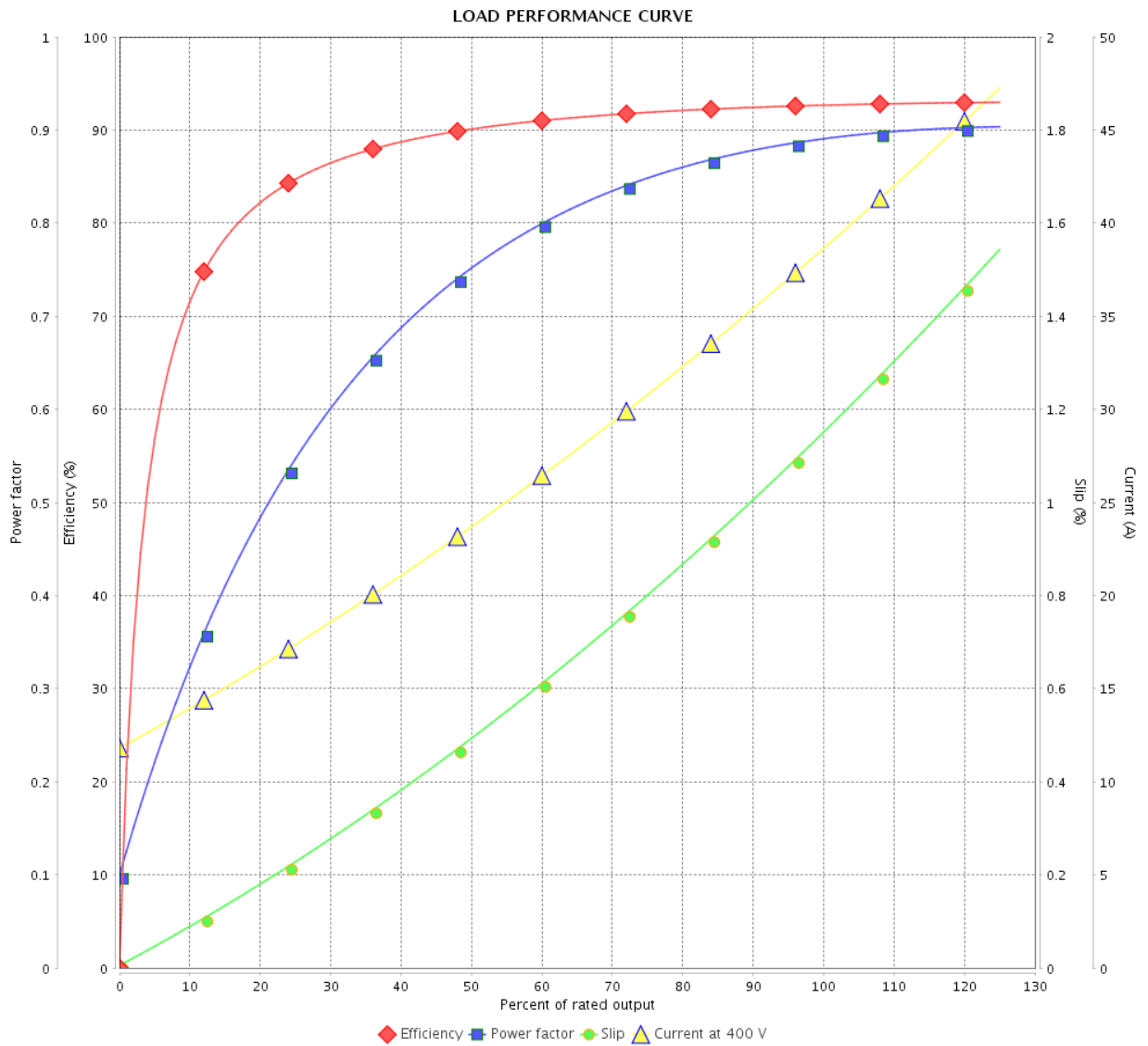


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Performance : 400 V 50 Hz 2P IE3

Rated current : 38.5 A
 LRC : 7.3
 Rated torque : 53.1 ft.lb
 Locked rotor torque : 270 %
 Breakdown torque : 280 %
 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

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Three Phase Induction Motor - Squirrel Cage



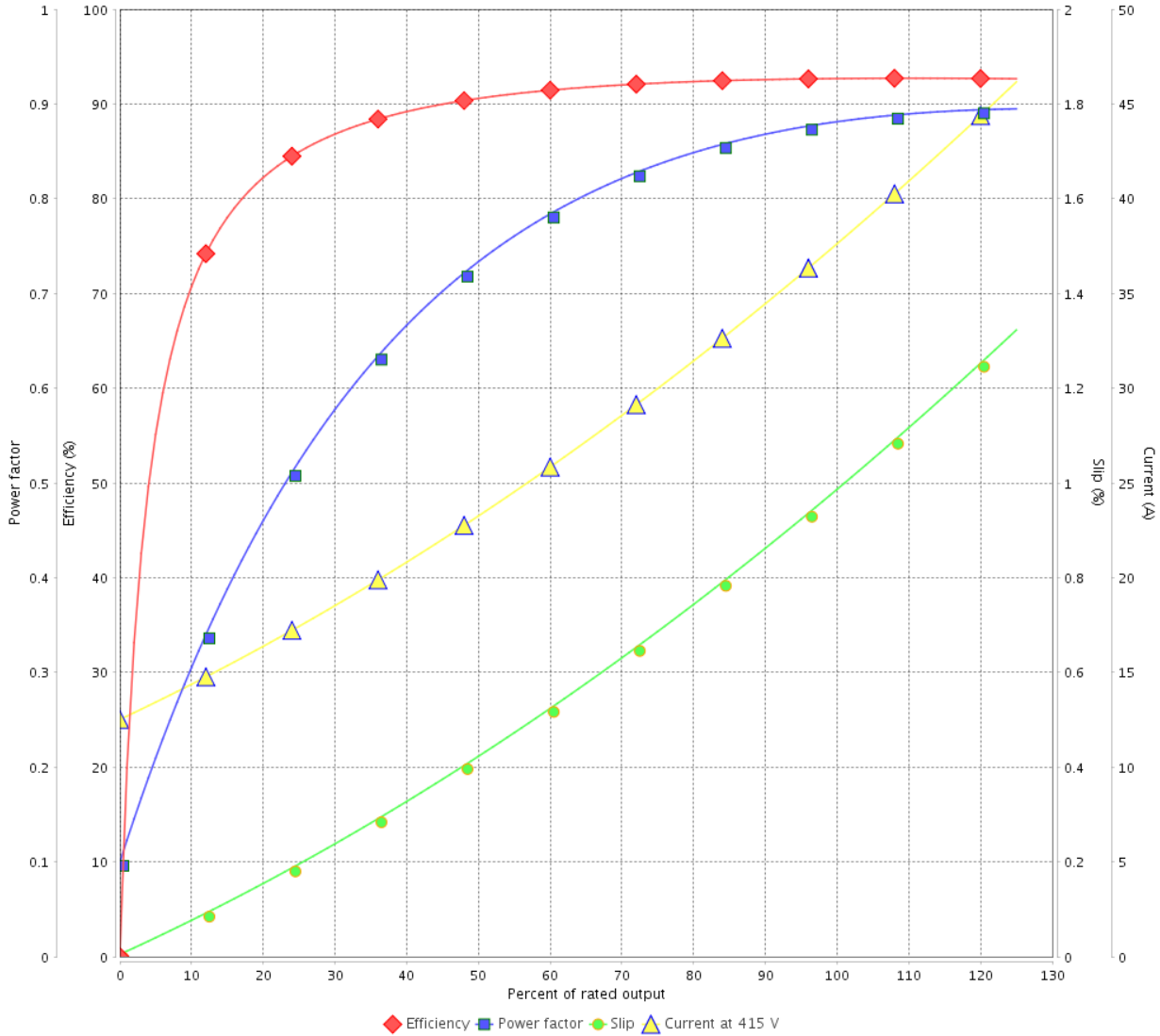
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Performance : 415 V 50 Hz 2P IE3

Rated current : 37.5 A
 LRC : 7.7
 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

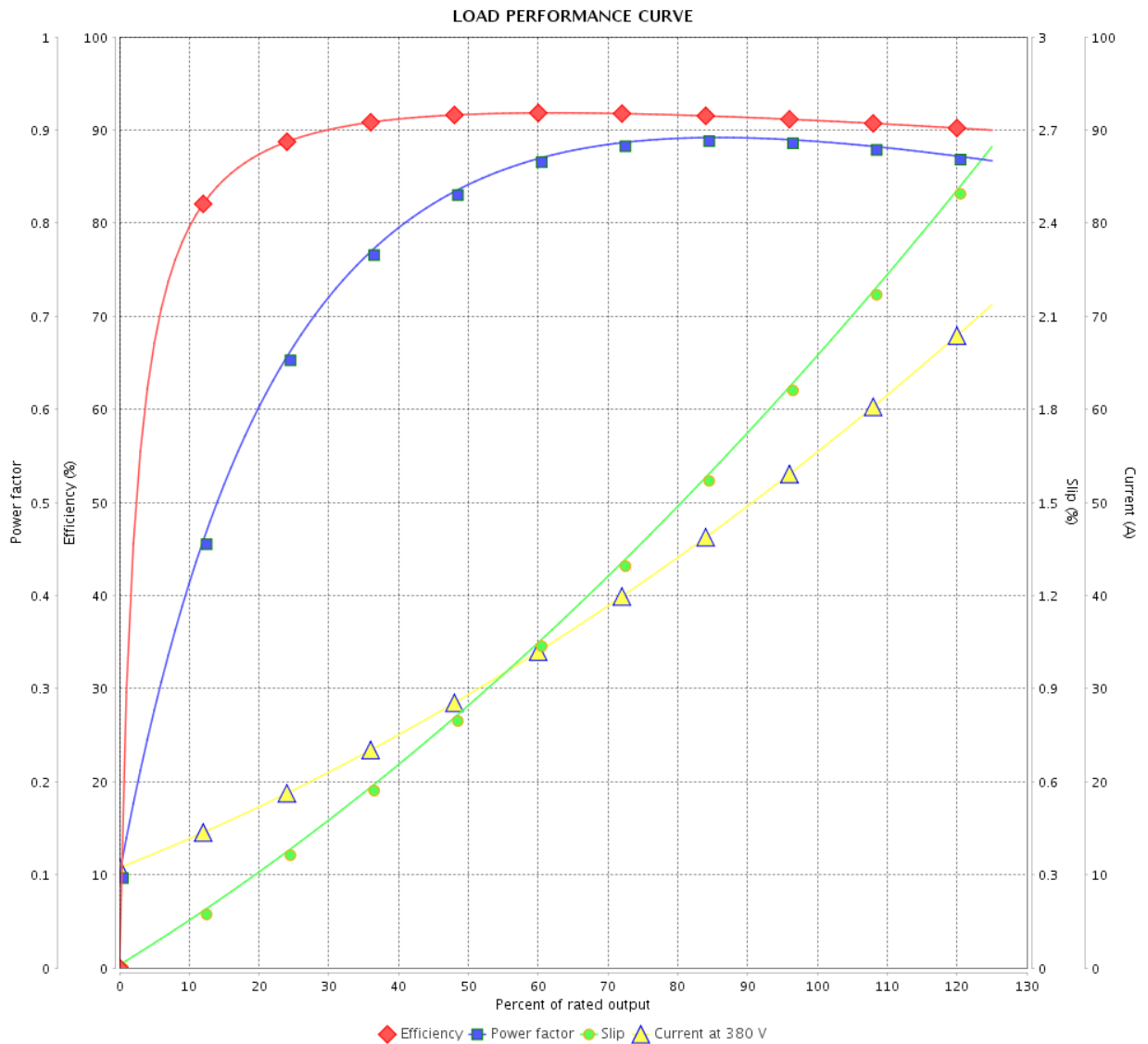


Customer : _____

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12448181

Catalog # : 04036ET3E324TS-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 : 190 %
 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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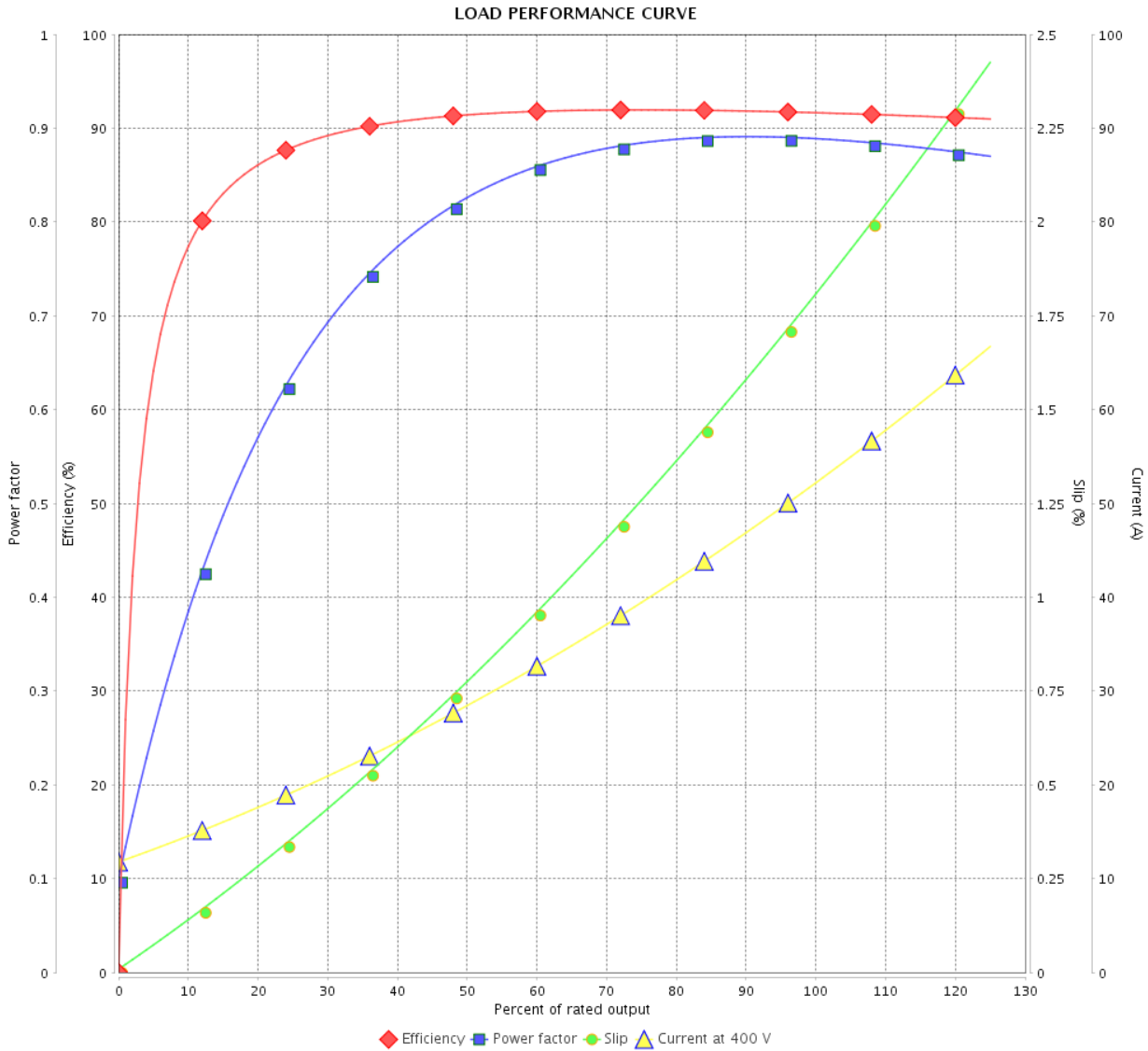


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Performance : 400 V 50 Hz 2P IE1

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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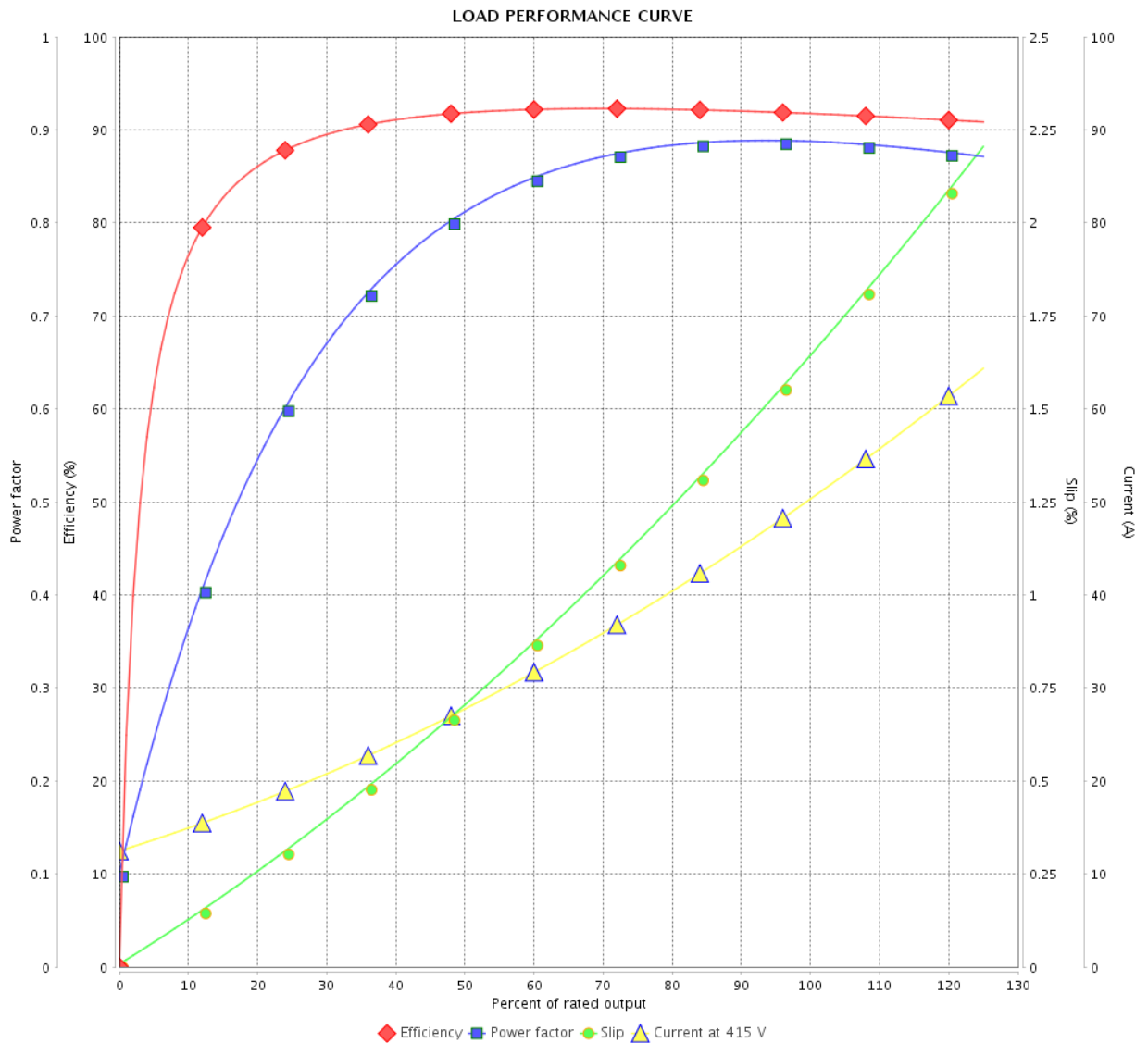


Customer : _____

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12448181

Catalog # : 04036ET3E324TS-W22



Performance : 415 V 50 Hz 2P IE1

Rated current : 51.1 A
 LRC : 6.0
 Rated torque : 71.2 ft.lb
 Locked rotor torque : 220 %
 Breakdown torque : 229 %
 Rated speed : 2950 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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THERMAL LIMIT CURVE



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase
Product code : 12448181
Catalog # : 04036ET3E324TS-W22

Performance : 230/460 V 60 Hz 2P

Rated current	: 91.6/45.8 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	: 3555 rpm	Design	: B

Heating constant

Cooling constant

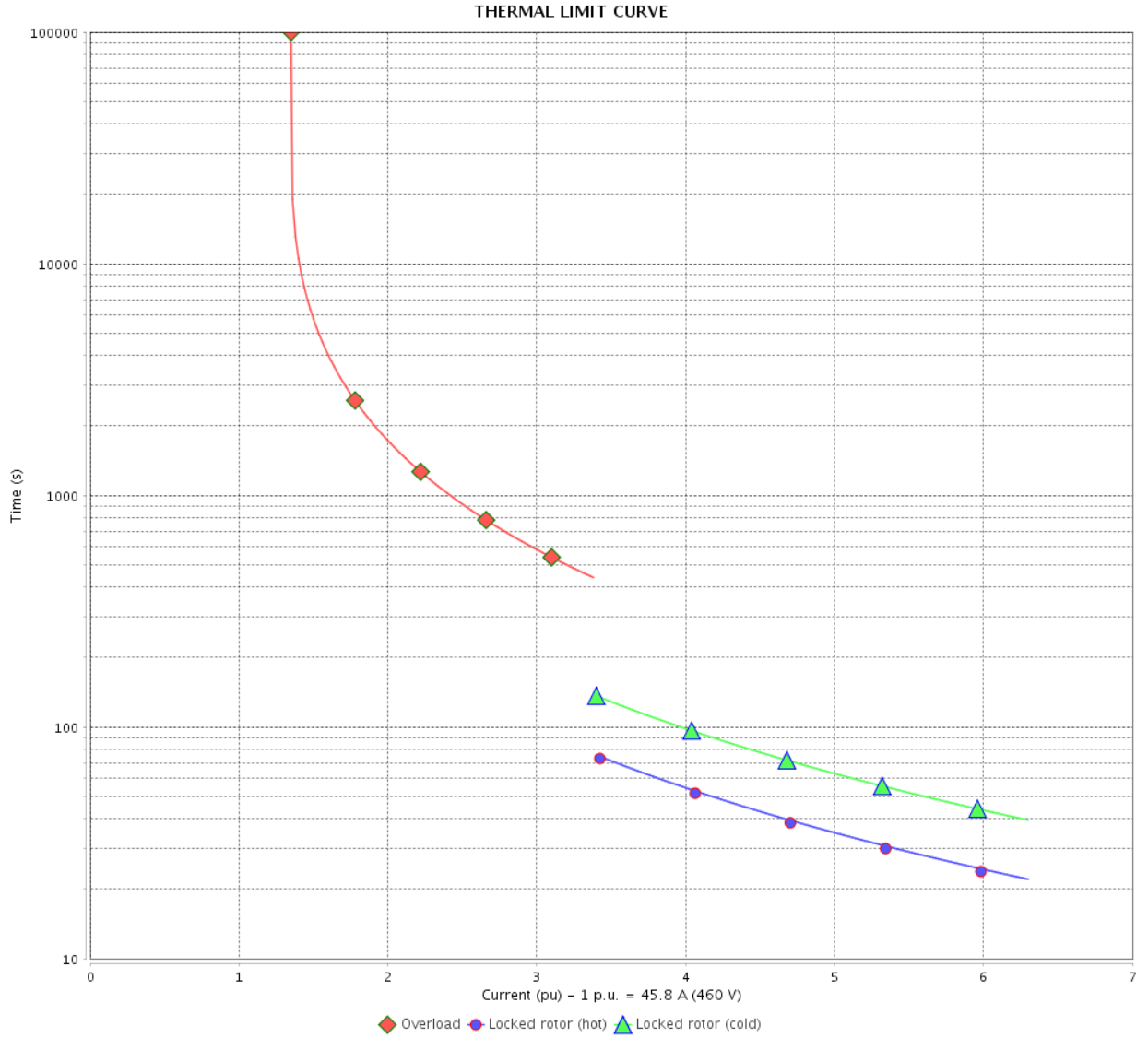
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Three Phase Induction Motor - Squirrel Cage

Customer :

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Product code : 12448181
Catalog # : 04036ET3E324TS-W22

Performance : 380 V 50 Hz 2P IE3

Rated current	: 40.5 A	Moment of inertia (J)	: 4.90 sq.ft.lb
LRC	: 6.5	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	: 2960 rpm	Design	: B

Heating constant

Cooling constant

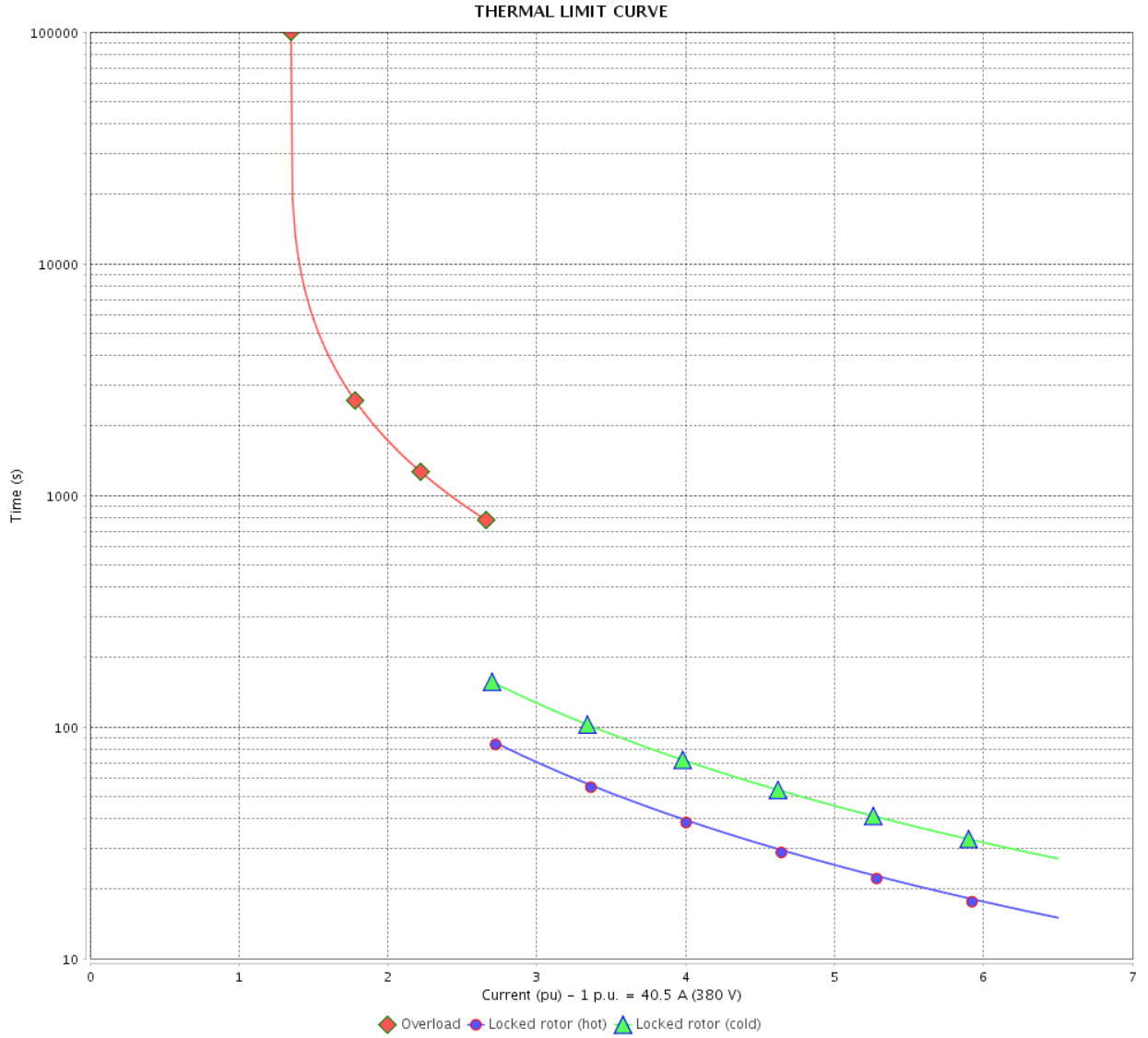
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Performance : 400 V 50 Hz 2P IE3

Rated current	: 38.5 A	Moment of inertia (J)	: 4.90 sq.ft.lb
LRC	: 7.3	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	: 2965 rpm	Design	: B

Heating constant

Cooling constant

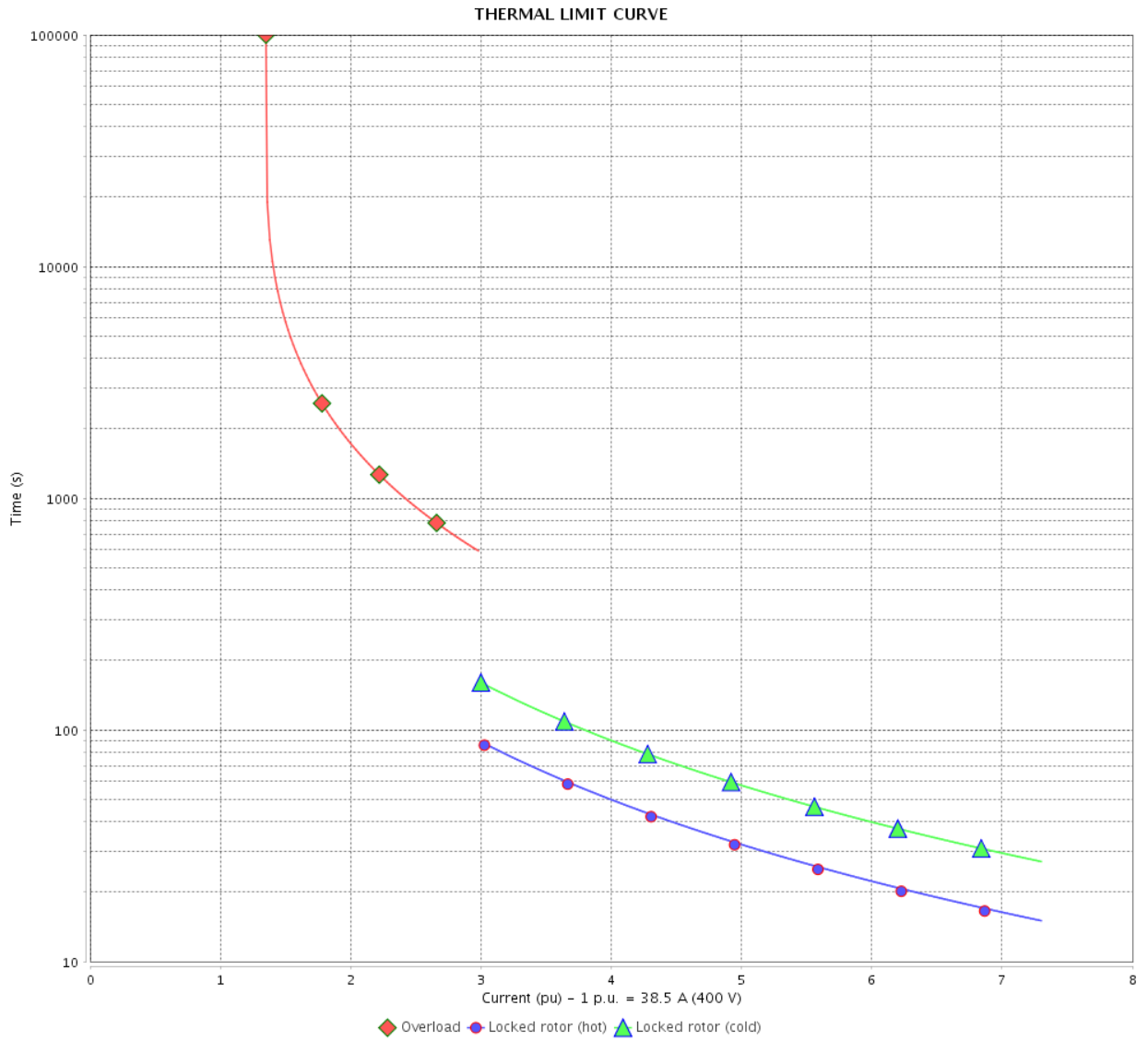
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Locked rotor torque	: 290 %	Service factor	: 1.00
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 2970 rpm	Design	: B

Heating constant

Cooling constant

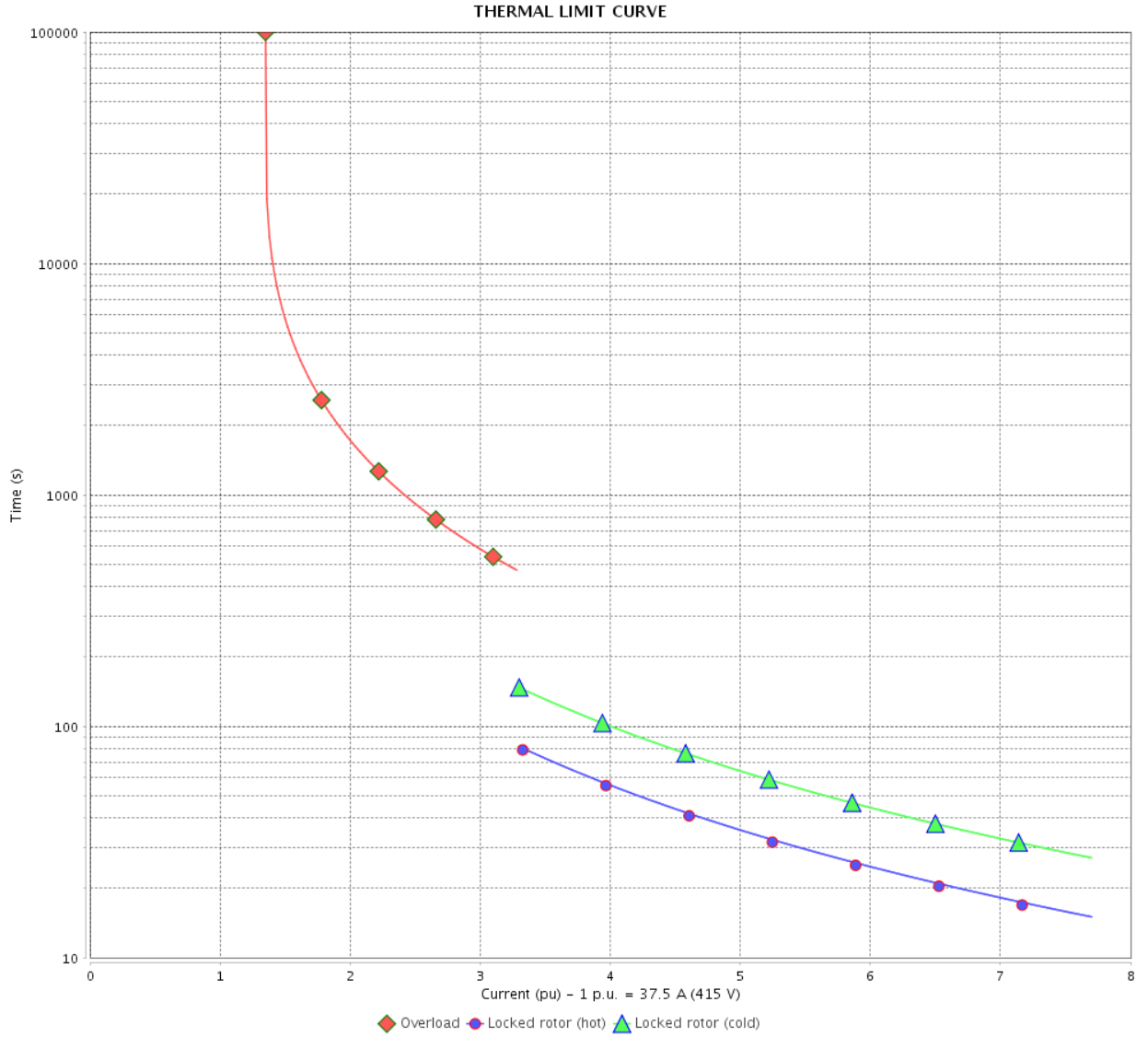
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Three Phase Induction Motor - Squirrel Cage



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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 : 190 %	Temperature rise : 105 K
Rated speed : 2940 rpm	Design : B

Heating constant

Cooling constant

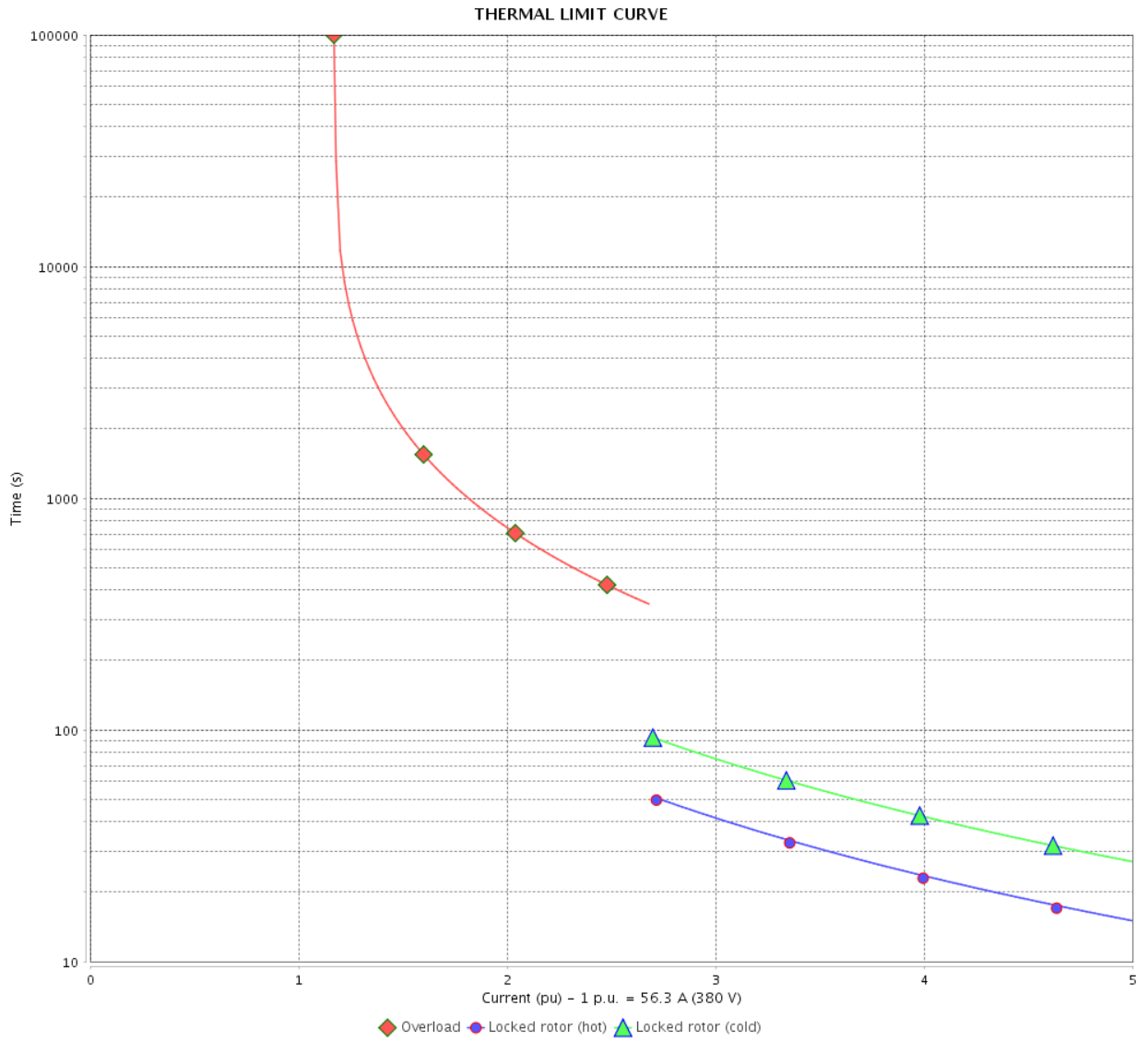
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Performance : 400 V 50 Hz 2P IE1

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

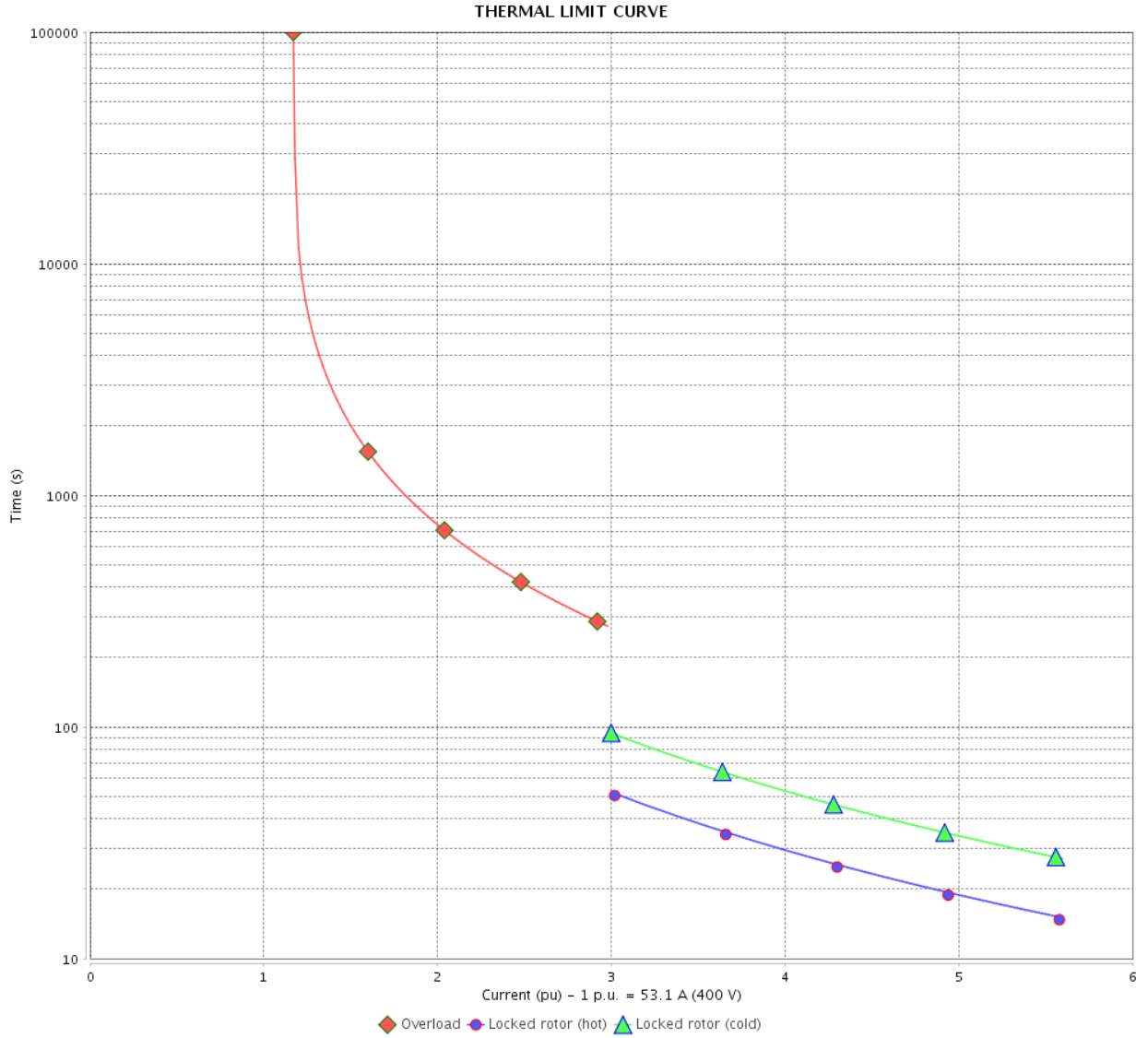
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	13/04/2022		26 / 36	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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Checked by				
Date				

THERMAL LIMIT CURVE



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase
Product code : 12448181
Catalog # : 04036ET3E324TS-W22

Performance : 415 V 50 Hz 2P IE1

Rated current	: 51.1 A	Moment of inertia (J)	: 4.90 sq.ft.lb
LRC	: 6.0	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	: 80 K
Rated speed	: 2950 rpm	Design	: B

Heating constant

Cooling constant

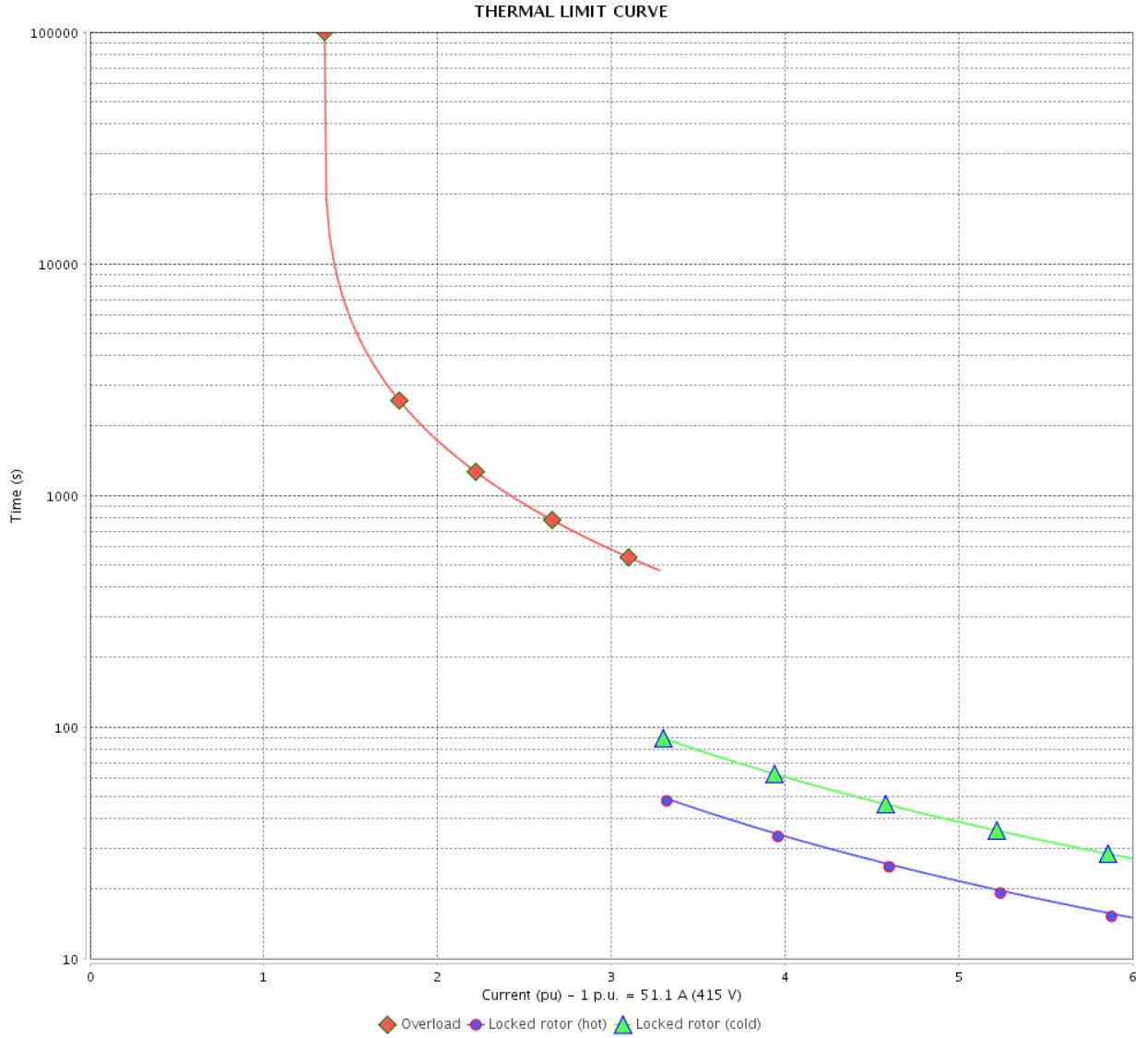
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Checked by			Page	Revision
Date	13/04/2022		28 / 36	

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



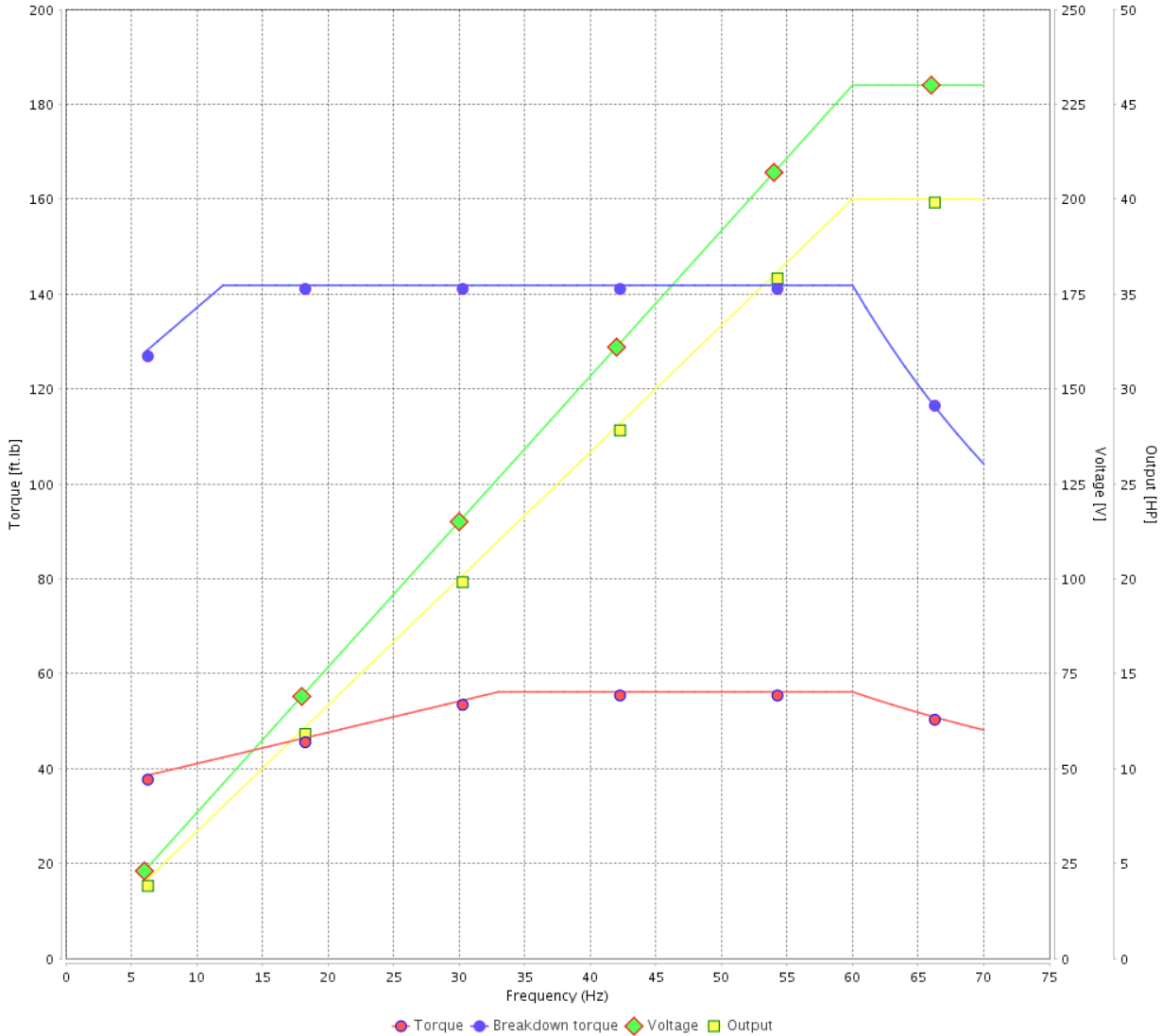
Customer : _____

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12448181

Catalog # : 04036ET3E324TS-W22

VFD OPERATION CURVE



Performance : 230/460 V 60 Hz 2P

Rated current : 91.6/45.8 A
 LRC : 6.3
 Rated torque : 59.1 ft.lb
 Locked rotor torque : 250 %
 Breakdown torque : 240 %
 Rated speed : 3555 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

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page	Revision
Checked by				
Date				

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

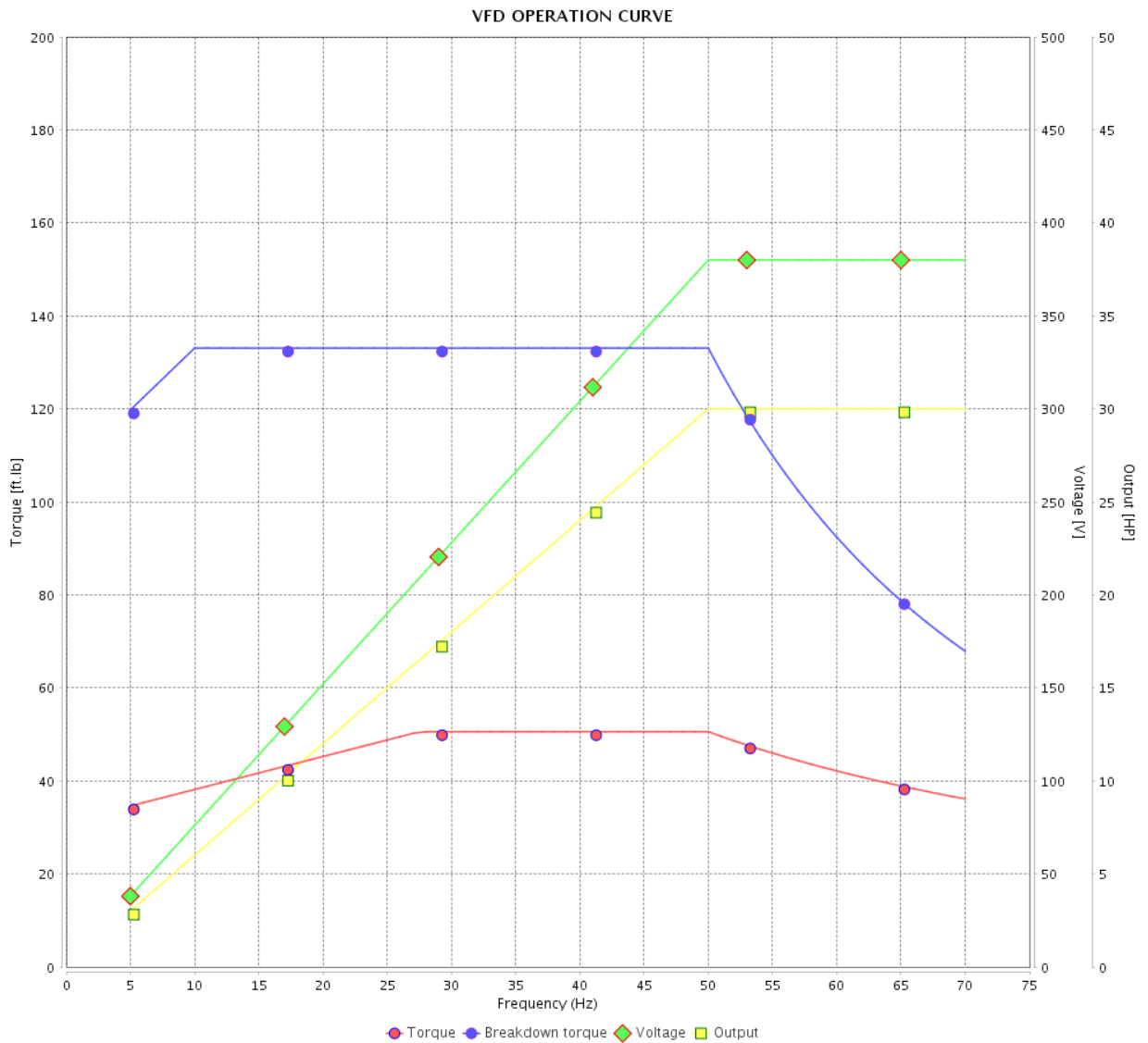


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12448181

Catalog # : 04036ET3E324TS-W22



Performance : 380 V 50 Hz 2P IE3

Rated current : 40.5 A
 LRC : 6.5
 Rated torque : 53.2 ft.lb
 Locked rotor torque : 240 %
 Breakdown torque : 250 %
 Rated speed : 2960 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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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



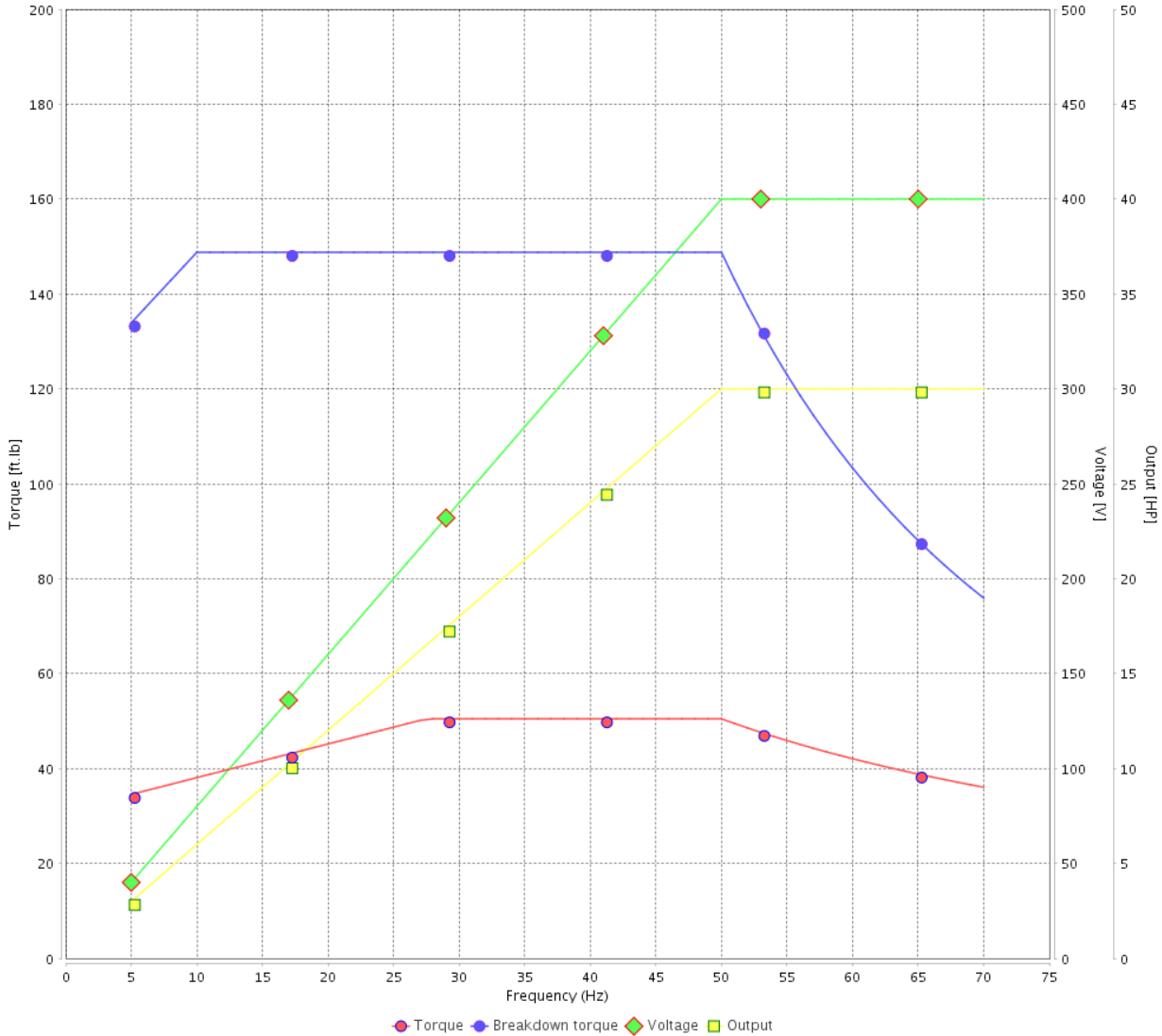
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12448181

Catalog # : 04036ET3E324TS-W22

VFD OPERATION CURVE



Performance : 400 V 50 Hz 2P IE3

Rated current : 38.5 A
 LRC : 7.3
 Rated torque : 53.1 ft.lb
 Locked rotor torque : 270 %
 Breakdown torque : 280 %
 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

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Date	13/04/2022			

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

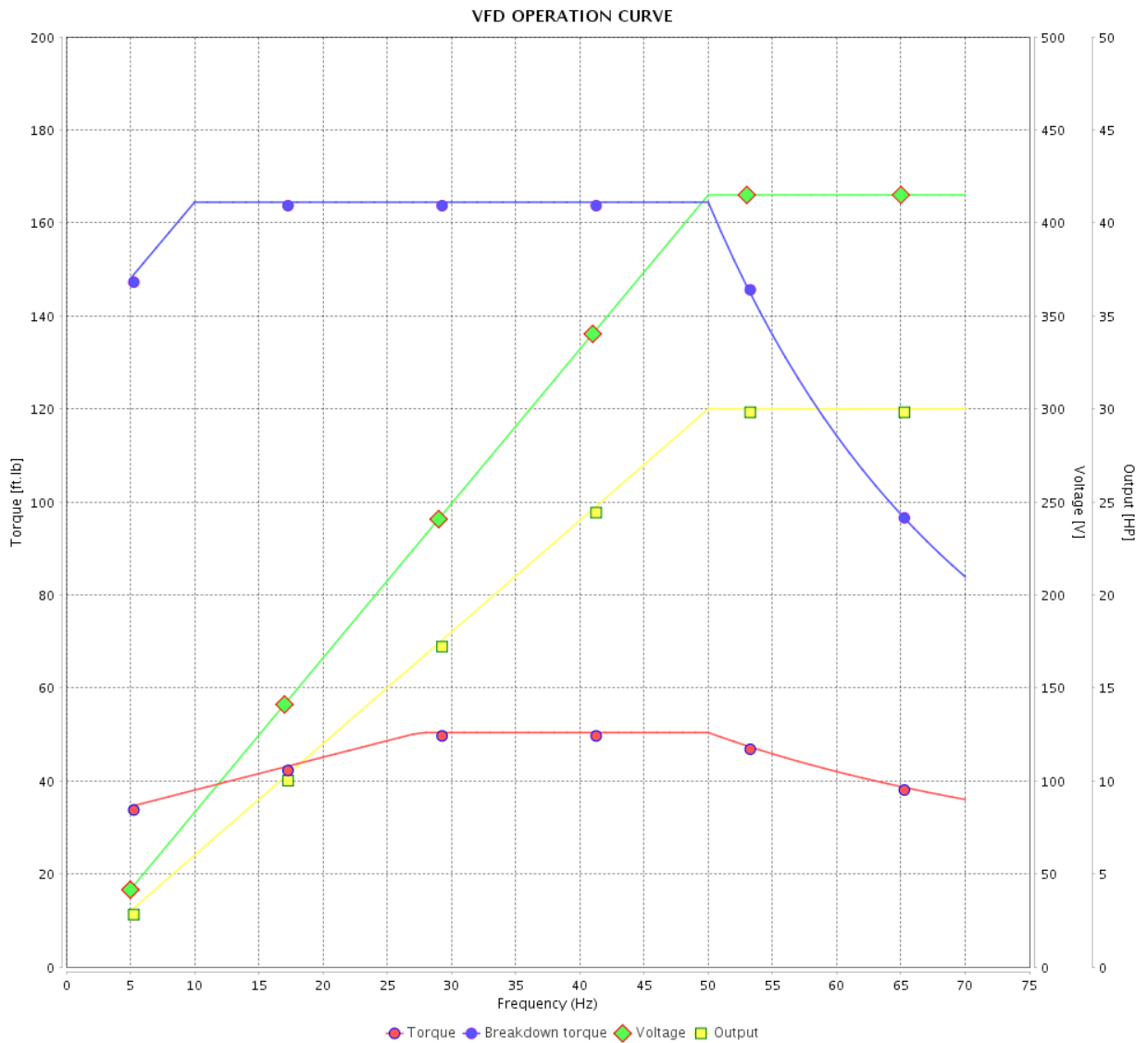


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12448181

Catalog # : 04036ET3E324TS-W22



Performance : 415 V 50 Hz 2P IE3

Rated current : 37.5 A
 LRC : 7.7
 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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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



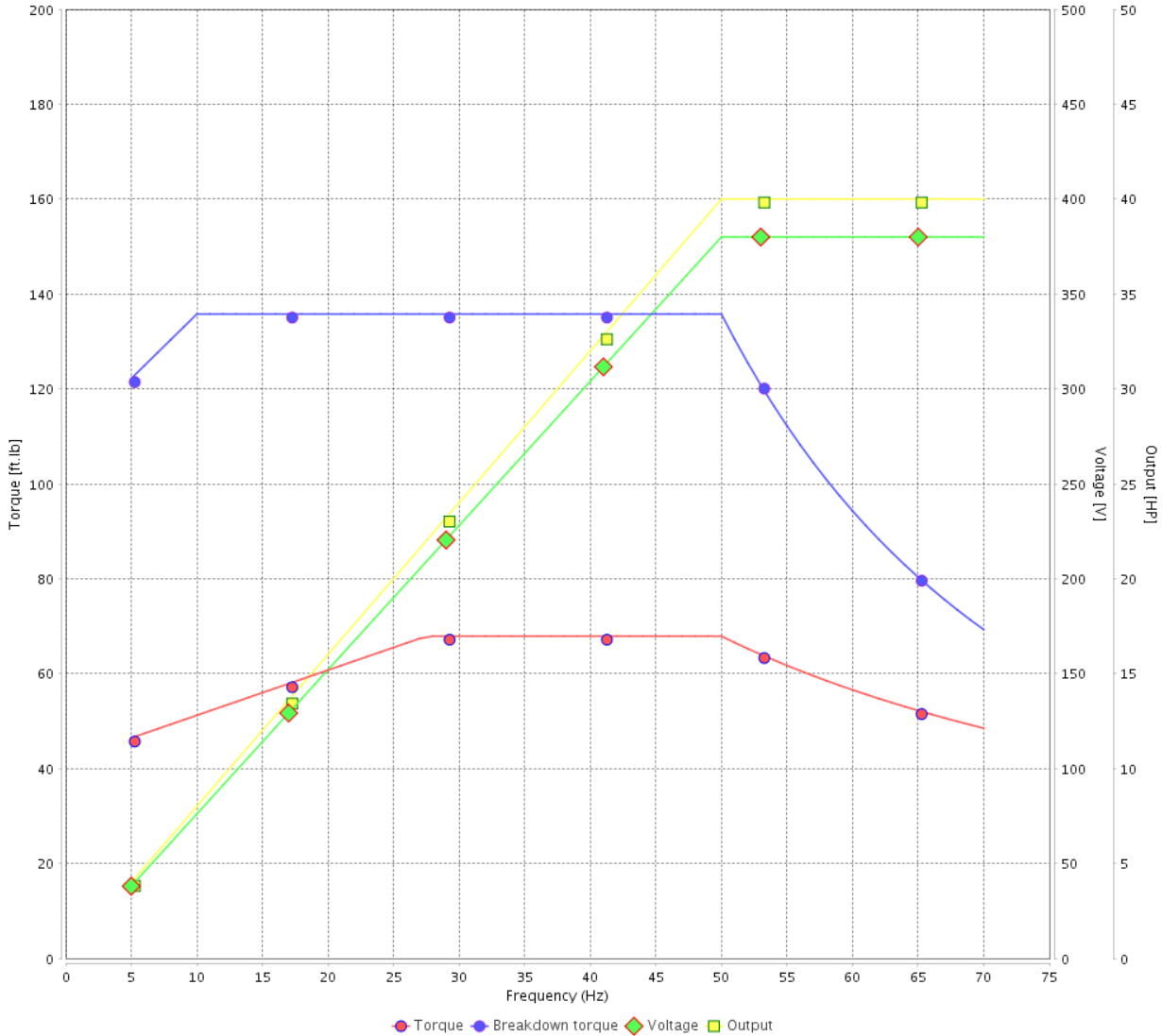
Customer : _____

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12448181

Catalog # : 04036ET3E324TS-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 : 190 %
 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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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

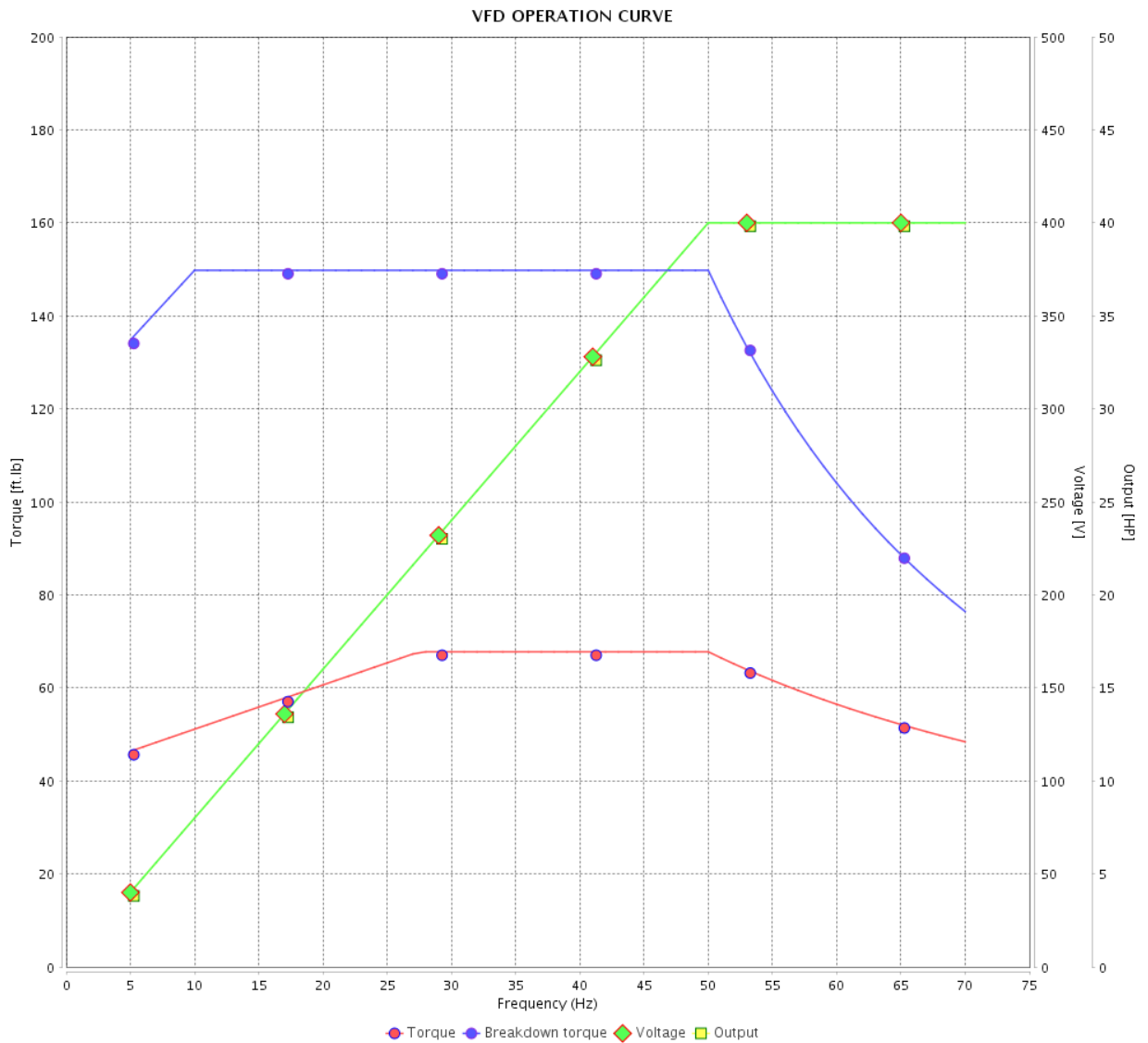


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12448181

Catalog # : 04036ET3E324TS-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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Performed by			Page	Revision
Checked by				
Date				
			35 / 36	

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



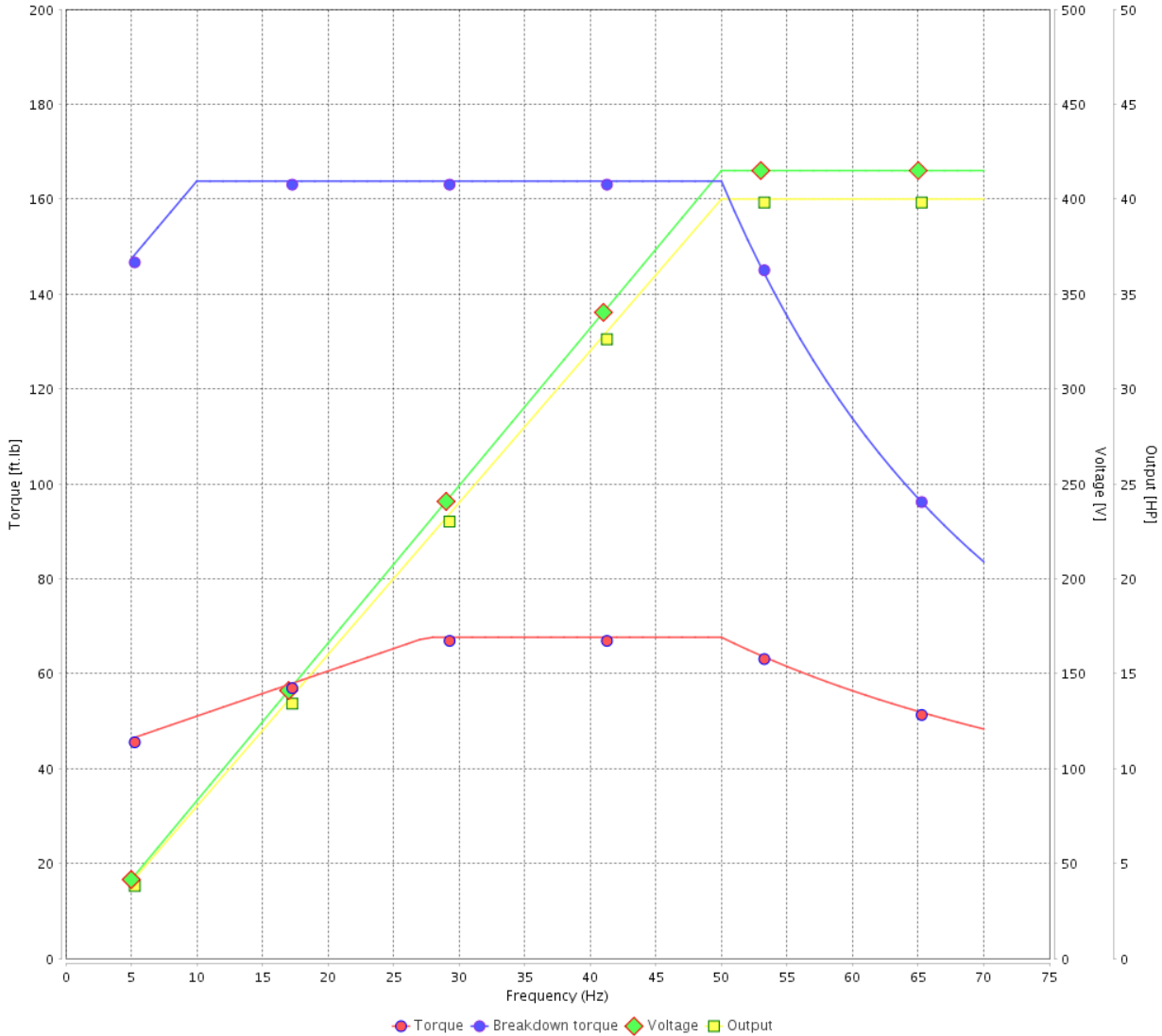
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12448181

Catalog # : 04036ET3E324TS-W22

VFD OPERATION CURVE



Performance : 415 V 50 Hz 2P IE1

Rated current	: 51.1 A	Moment of inertia (J)	: 4.90 sq.ft.lb
LRC	: 6.0	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	: 80 K
Rated speed	: 2950 rpm	Design	: B

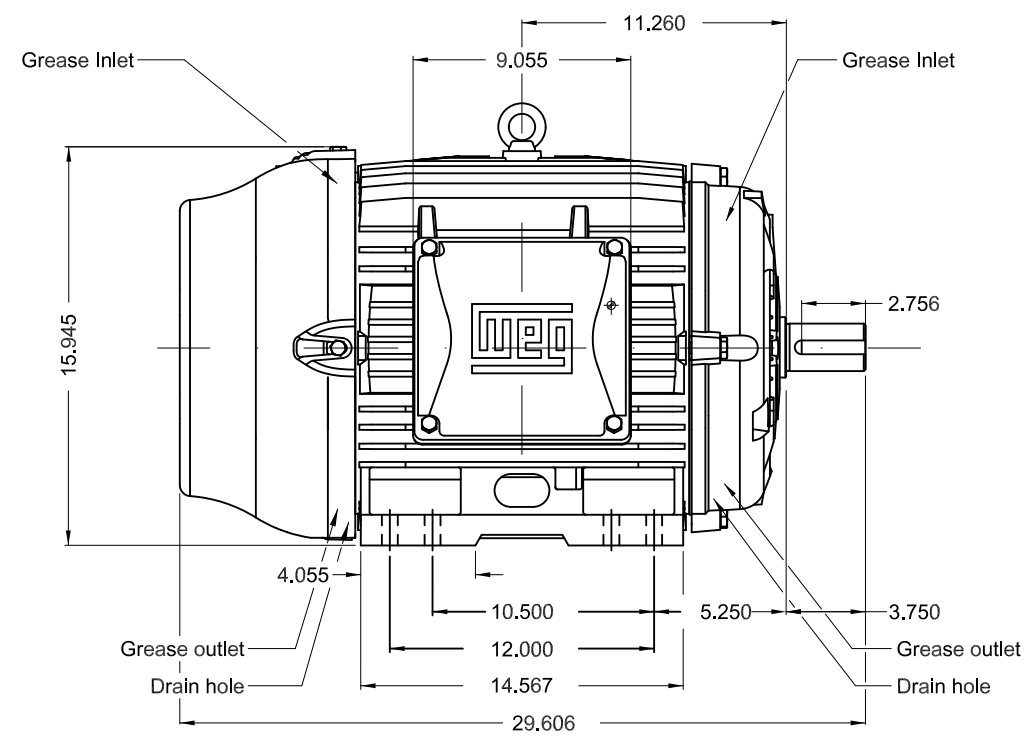
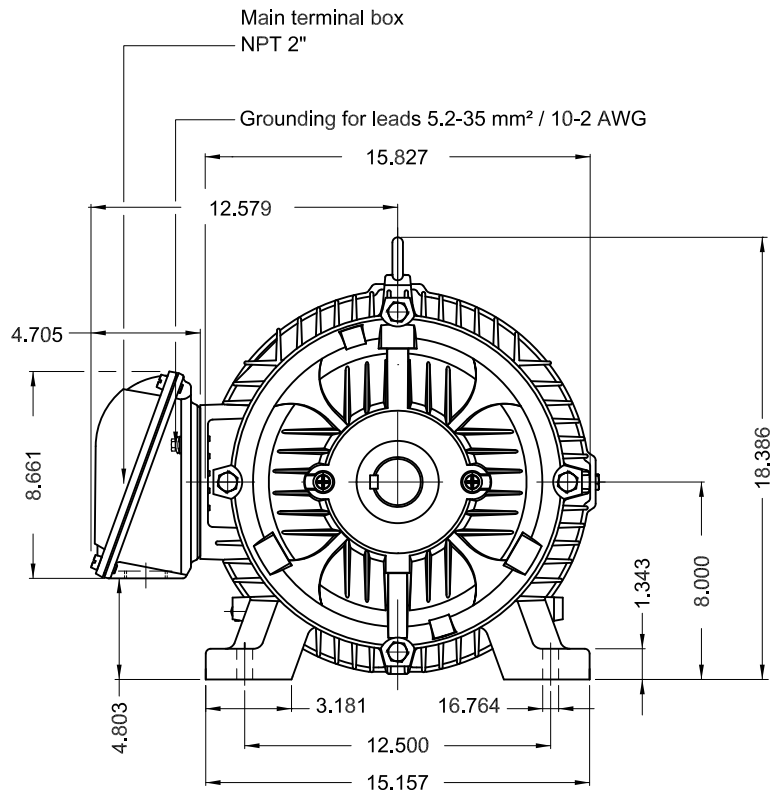
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1 2 3 4 5 6

A

B

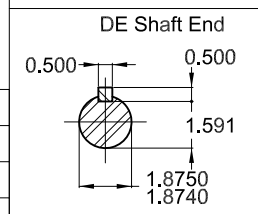
C



D

E

Without vertical jackscrews
 Color RAL 5009
 Painting plan 203A
 Mounting B3R(D)



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

PREVIEW
WDD



MADE IN MEXICO
12448181



FOR SAFE AREA
Mod.TE1BFOXON
CC029A

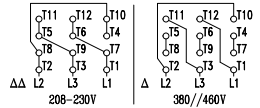


For use on 60Hz
Class I, Div 2, Gr A, B, C and D - T3
Class I, Zone 2, IIC - T3
Class II, Div 2, Gr F and G - T4
For use on PWM: Gr. A, B, C, D and F,
VT 1000:1, CT 20:1, 1.00SF - T3A

MODEL 04036ET3E324TS-W22

Inverter Duty Motor
Severe Duty

PH3	60Hz	Fr. 324/6TS	1000m.a.s.l.	IP55	TEFC	549lb
V	230/460			A	91.6/45.8	
HP	40			kW	30	
SF	1.25			SFA	115/57.3	
RPM	3555			PF	0.89	
AMB	40°C			INS cl.	F DT80K	NEMA NOM EFF 92.4%
DUTY CONT.				DES B	Code G	
USABLE @208V	101A	SF 1.10	SFA 111			
40HP	30kW	50Hz	380V	56.3A	2940RPM	SF 1.00 EFF 91.0% (IE1)



- 6312-C3 (21g)
- 6212-C3 (13g)



MOBIL POLYREX EM (12000h)

