

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :							
Product line	: NEMA Premium Efficiency Three-Phase	Product code :	12445770				
		Catalog # :	00336ET3E182TC-W22				
Frame	: 182/4TC	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	: 91.9 lb				
Protection degree	: IP55	Moment of inertia (J)	: 0.1889 sq.ft.lb				
Design	: B						
Output [HP]	3	2	2	2	3	3	3
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]	7.26/3.63	3.09	3.00	2.96	4.34	4.17	4.02
L. R. Amperes [A]	62.4/31.2	29.7	32.1	32.9	29.5	31.7	32.6
LRC [A]	8.6x(Code K)	9.6x(Code L)	10.7x(Code M)	11.1x(Code N)	6.8x(Code H)	7.6x(Code J)	8.1x(Code J)
No load current [A]	2.60/1.30	1.15	1.20	1.30	1.25	1.35	1.30
Rated speed [RPM]	3515	2930	2940	2945	2885	2900	2910
Slip [%]	2.36	2.33	2.00	1.83	3.83	3.33	3.00
Rated torque [ft.lb]	4.48	3.58	3.57	3.57	5.46	5.43	5.41
Locked rotor torque [%]	220	240	280	320	180	200	220
Breakdown torque [%]	340	380	440	459	250	280	310
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	54s (cold) 30s (hot)	68s (cold) 38s (hot)	63s (cold) 35s (hot)	57s (cold) 32s (hot)	55s (cold) 31s (hot)	52s (cold) 29s (hot)	48s (cold) 27s (hot)
Noise level ²	66.0 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%						
	50%	82.5	81.0	80.6	79.7	84.0	84.0
	75%	86.5	84.5	84.5	84.1	86.5	86.5
	100%	86.5	85.8	85.8	85.9	85.5	86.5
Power Factor	25%						
	50%	0.75	0.68	0.65	0.63	0.80	0.77
	75%	0.84	0.79	0.77	0.75	0.87	0.86
	100%	0.88	0.86	0.84	0.82	0.90	0.89
Bearing type	: Drive end : 6207 ZZ	Non drive end : 6206 ZZ	Foundation loads				
Sealing	: V'Ring	V'Ring	Max. traction	: 61 lb			
Lubrication interval	: -	-	Max. compression	: 153 lb			
Lubricant amount	: -	-					
Lubricant type	: Mobil Polyrex EM						
Notes USABLE @208V 8.01A SF 1.15 SFA 9.21A							
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



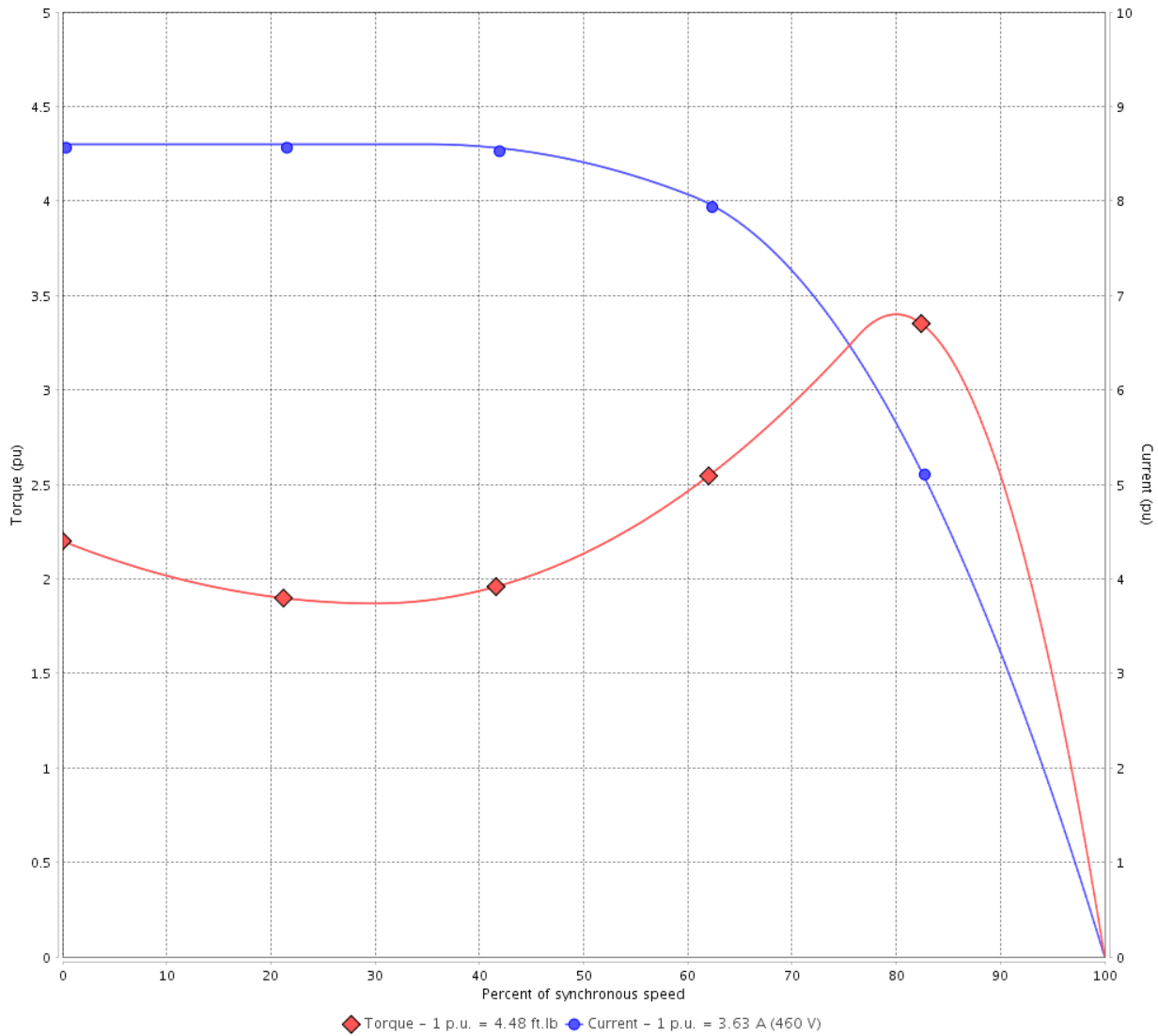
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12445770

Catalog # : 00336ET3E182TC-W22

TORQUE AND CURRENT VS SPEED CURVE



Performance : 230/460 V 60 Hz 2P

Rated current : 7.26/3.63 A
 LRC : 8.6
 Rated torque : 4.48 ft.lb
 Locked rotor torque : 220 %
 Breakdown torque : 340 %
 Rated speed : 3515 rpm

Moment of inertia (J) : 0.1889 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

Locked rotor time : 54s (cold) 30s (hot)

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TORQUE AND CURRENT VS SPEED CURVE



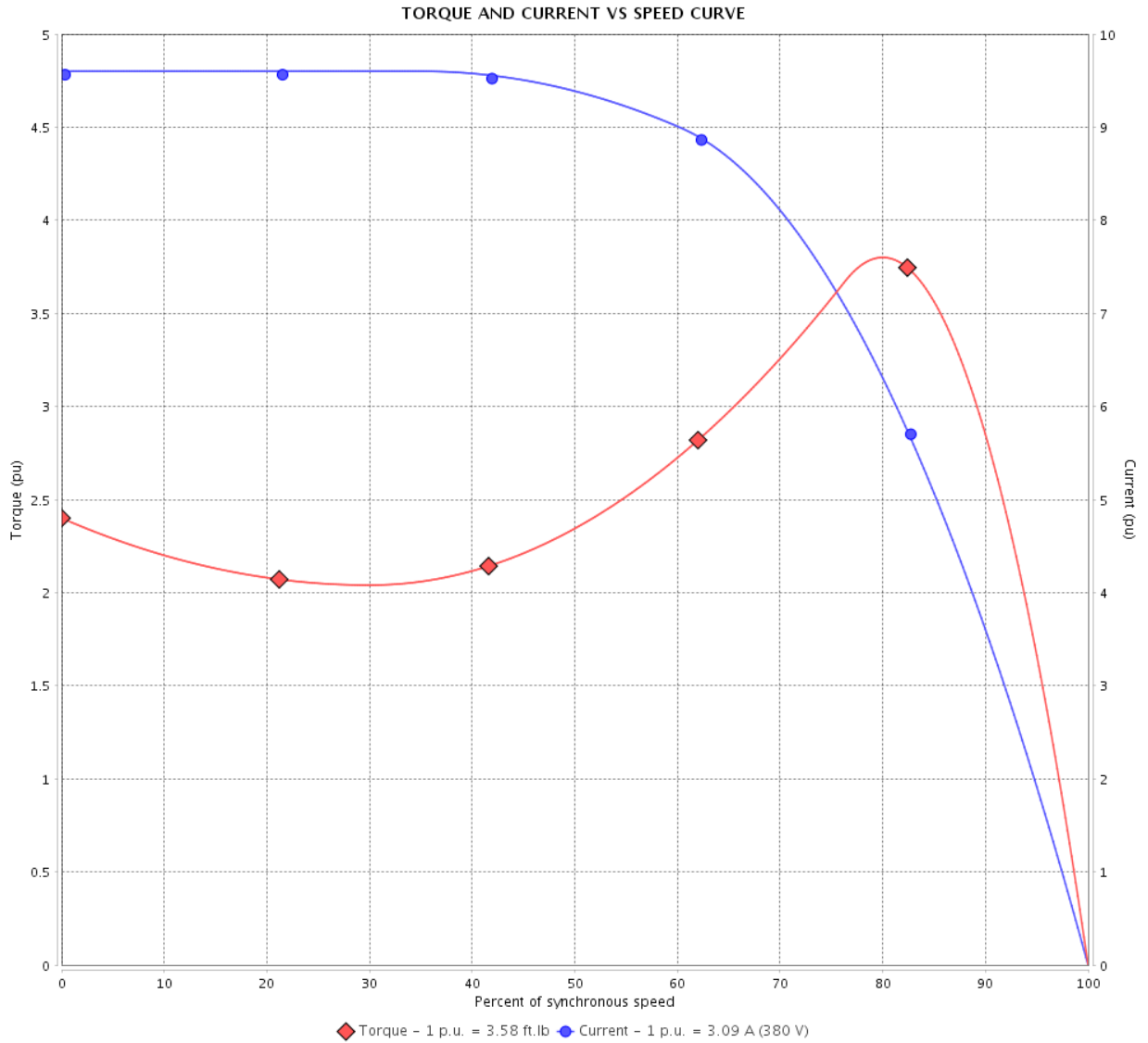
Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12445770

Catalog # : 00336ET3E182TC-W22



Performance : 380 V 50 Hz 2P IE3

Rated current	: 3.09 A	Moment of inertia (J)	: 0.1889 sq.ft.lb
LRC	: 9.6	Duty cycle	: Cont.(S1)
Rated torque	: 3.58 ft.lb	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.25
Breakdown torque	: 380 %	Temperature rise	: 80 K
Rated speed	: 2930 rpm	Design	: B

Locked rotor time : 68s (cold) 38s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



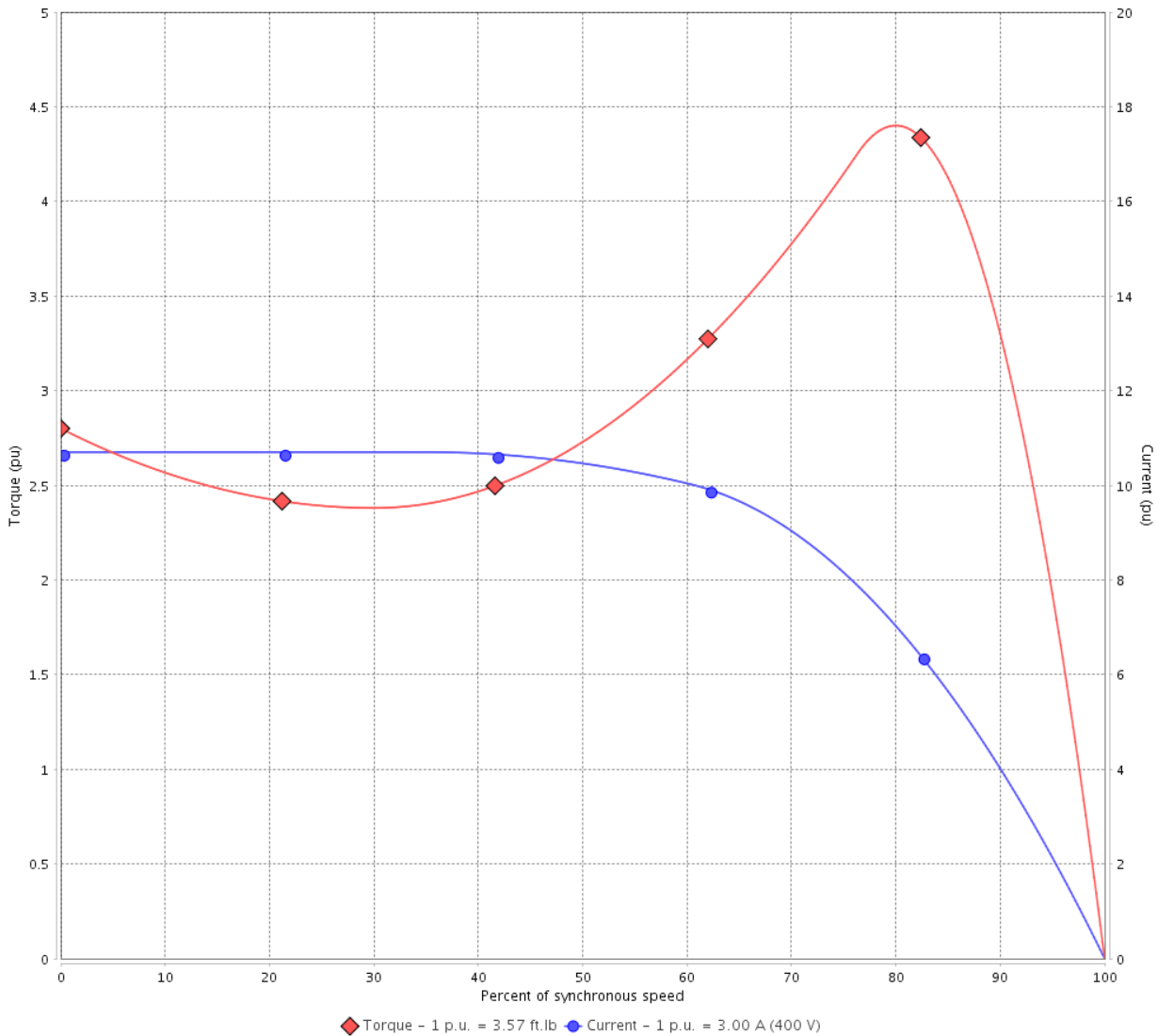
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TORQUE AND CURRENT VS SPEED CURVE



Performance : 400 V 50 Hz 2P IE3

Rated current	: 3.00 A	Moment of inertia (J)	: 0.1889 sq.ft.lb
LRC	: 10.7	Duty cycle	: Cont.(S1)
Rated torque	: 3.57 ft.lb	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	: 1.25
Breakdown torque	: 440 %	Temperature rise	: 80 K
Rated speed	: 2940 rpm	Design	: B

Locked rotor time : 63s (cold) 35s (hot)

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TORQUE AND CURRENT VS SPEED CURVE



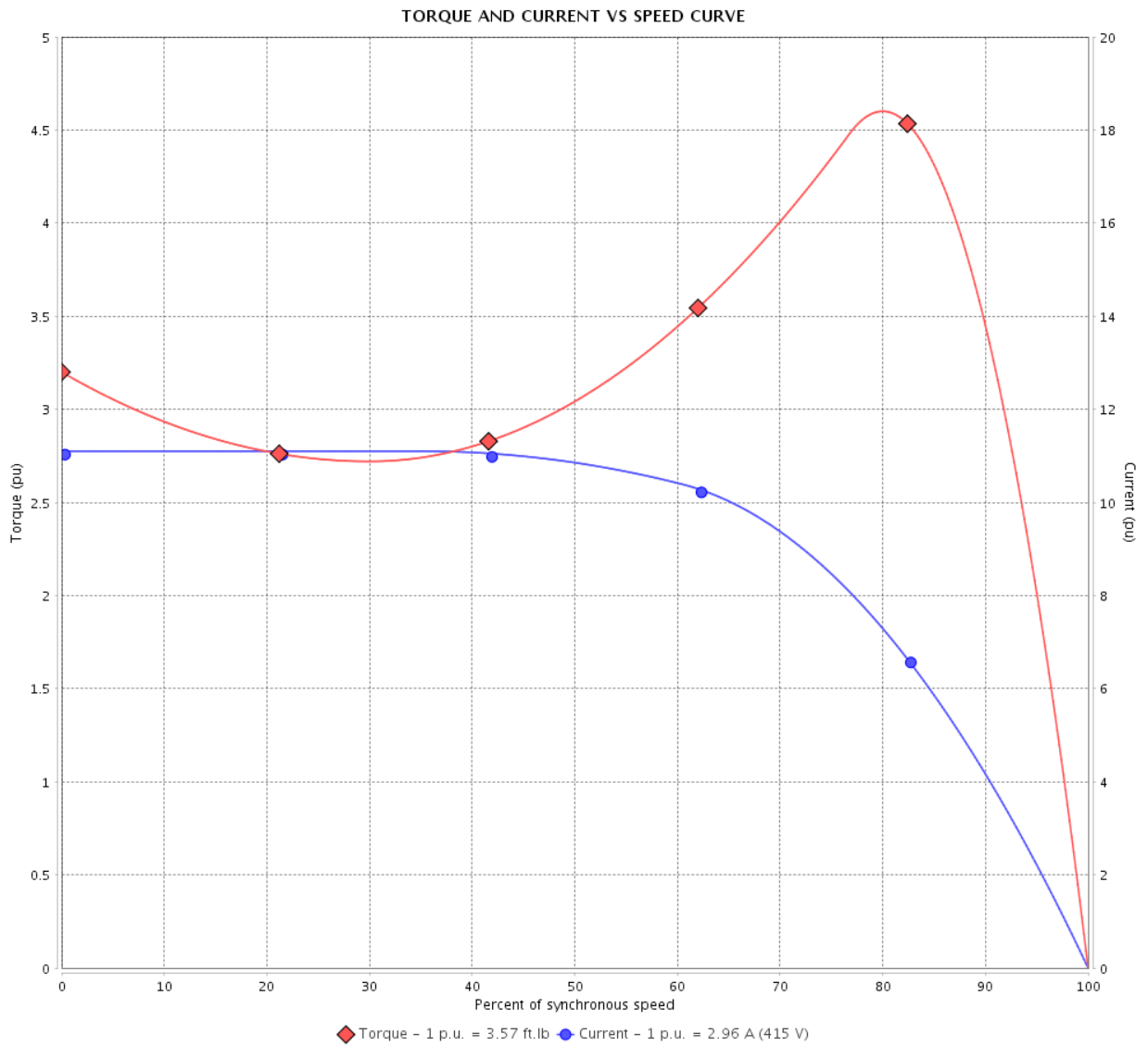
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Customer :

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Catalog # : 00336ET3E182TC-W22



Performance : 415 V 50 Hz 2P IE3

Rated current : 2.96 A
 LRC : 11.1
 Rated torque : 3.57 ft.lb
 Locked rotor torque : 320 %
 Breakdown torque : 459 %
 Rated speed : 2945 rpm

Moment of inertia (J) : 0.1889 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

Locked rotor time : 57s (cold) 32s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



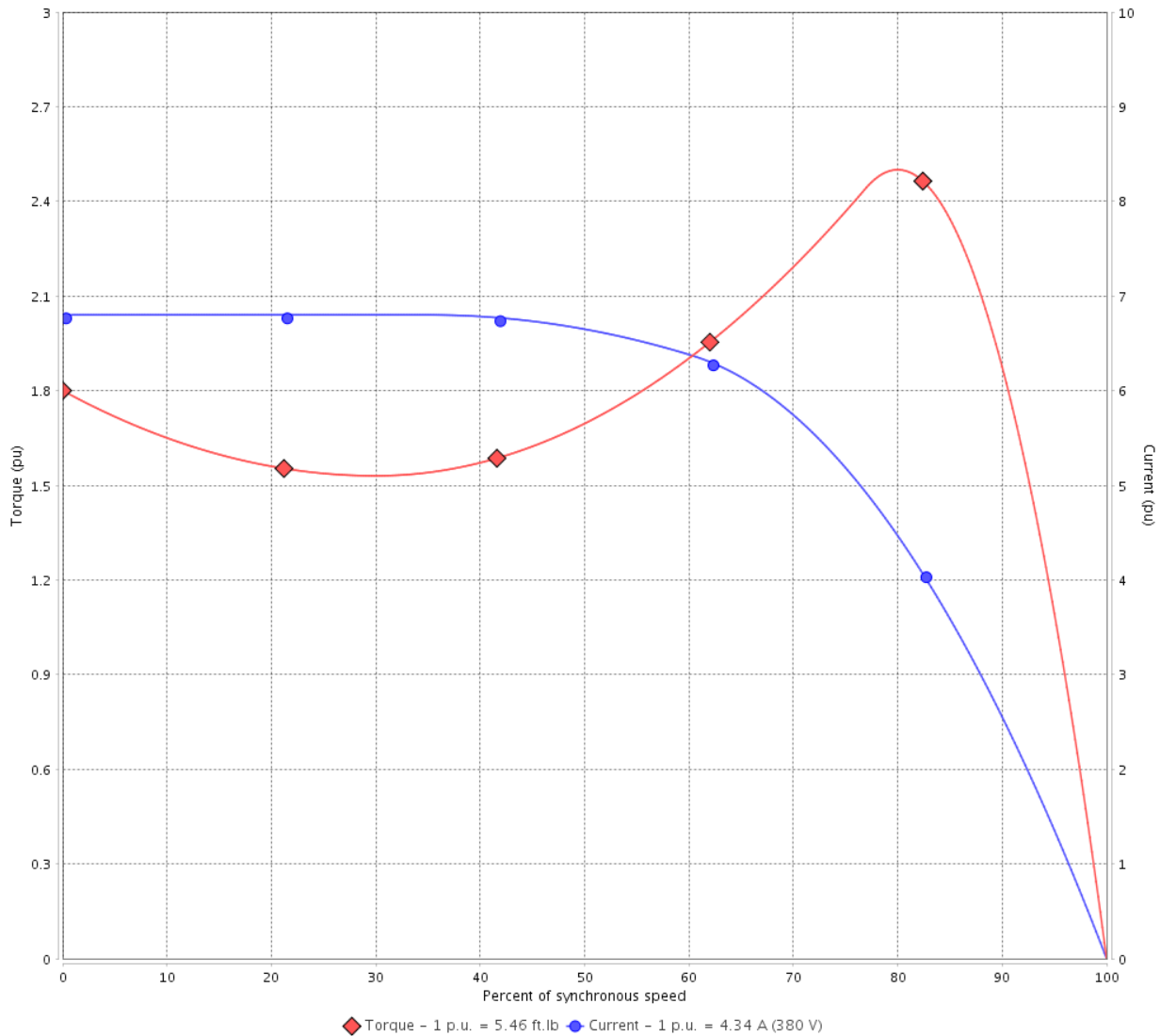
Customer :

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TORQUE AND CURRENT VS SPEED CURVE



Performance : 380 V 50 Hz 2P IE2

Rated current	: 4.34 A	Moment of inertia (J)	: 0.1889 sq.ft.lb
LRC	: 6.8	Duty cycle	: Cont.(S1)
Rated torque	: 5.46 ft.lb	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.25
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 2885 rpm	Design	: B

Locked rotor time : 55s (cold) 31s (hot)

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TORQUE AND CURRENT VS SPEED CURVE



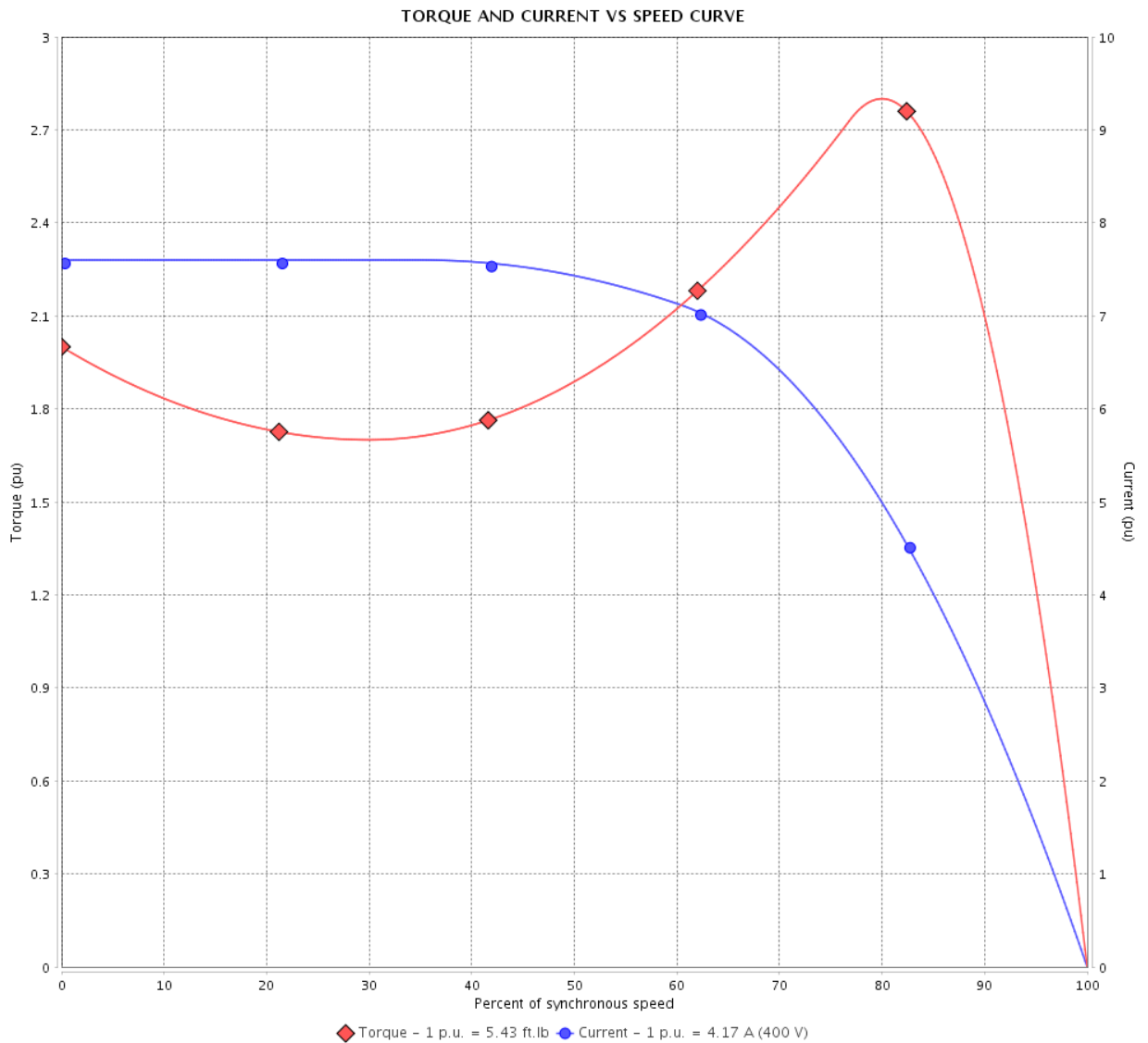
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Customer :

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Catalog # : 00336ET3E182TC-W22



Performance : 400 V 50 Hz 2P IE2

Rated current : 4.17 A
 LRC : 7.6
 Rated torque : 5.43 ft.lb
 Locked rotor torque : 200 %
 Breakdown torque : 280 %
 Rated speed : 2900 rpm

Moment of inertia (J) : 0.1889 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

Locked rotor time : 52s (cold) 29s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



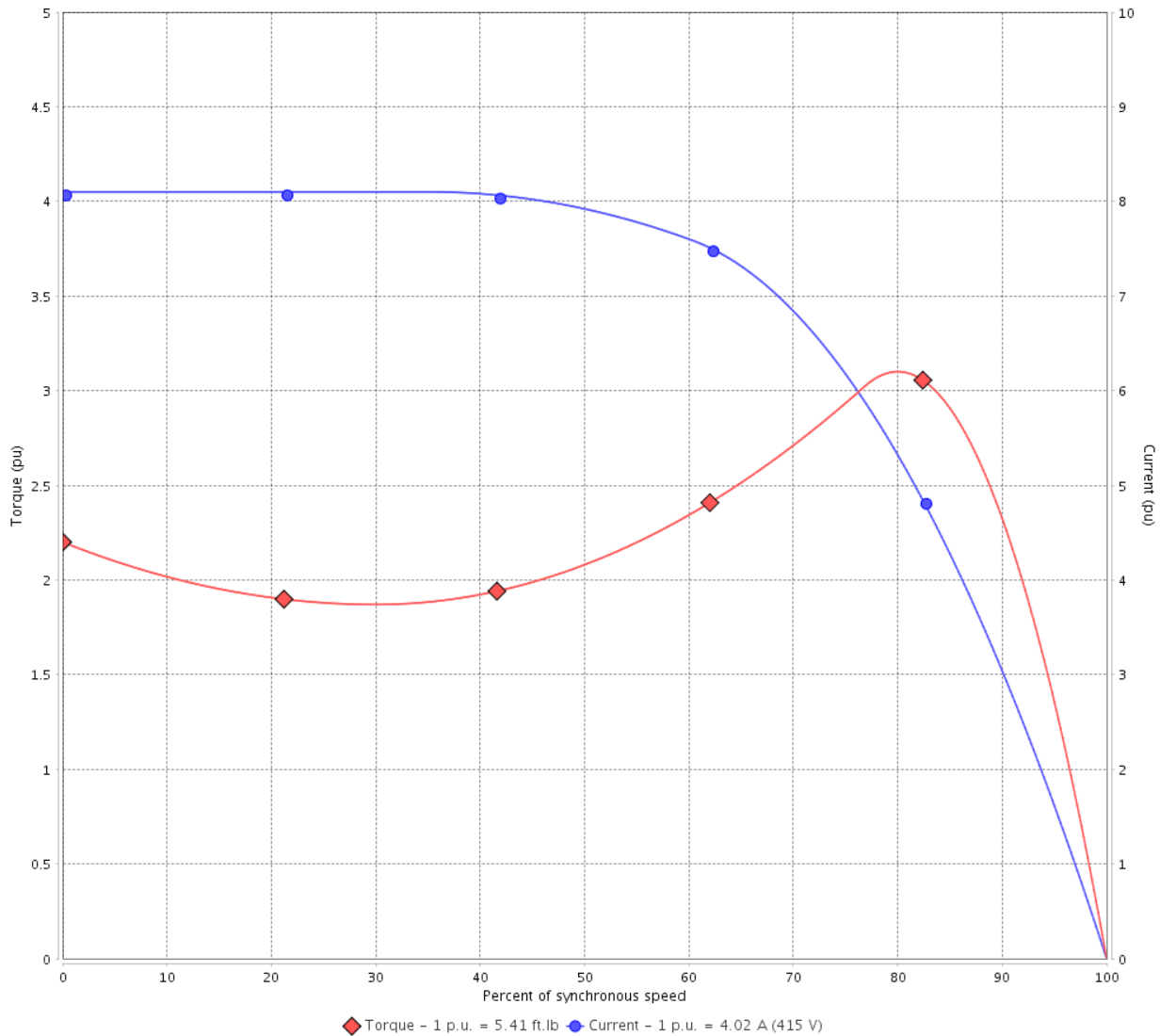
Customer :

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Product code : 12445770

Catalog # : 00336ET3E182TC-W22

TORQUE AND CURRENT VS SPEED CURVE



Performance : 415 V 50 Hz 2P IE3

Rated current	: 4.02 A	Moment of inertia (J)	: 0.1889 sq.ft.lb
LRC	: 8.1	Duty cycle	: Cont.(S1)
Rated torque	: 5.41 ft.lb	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.25
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 2910 rpm	Design	: B

Locked rotor time : 48s (cold) 27s (hot)

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Three Phase Induction Motor - Squirrel Cage

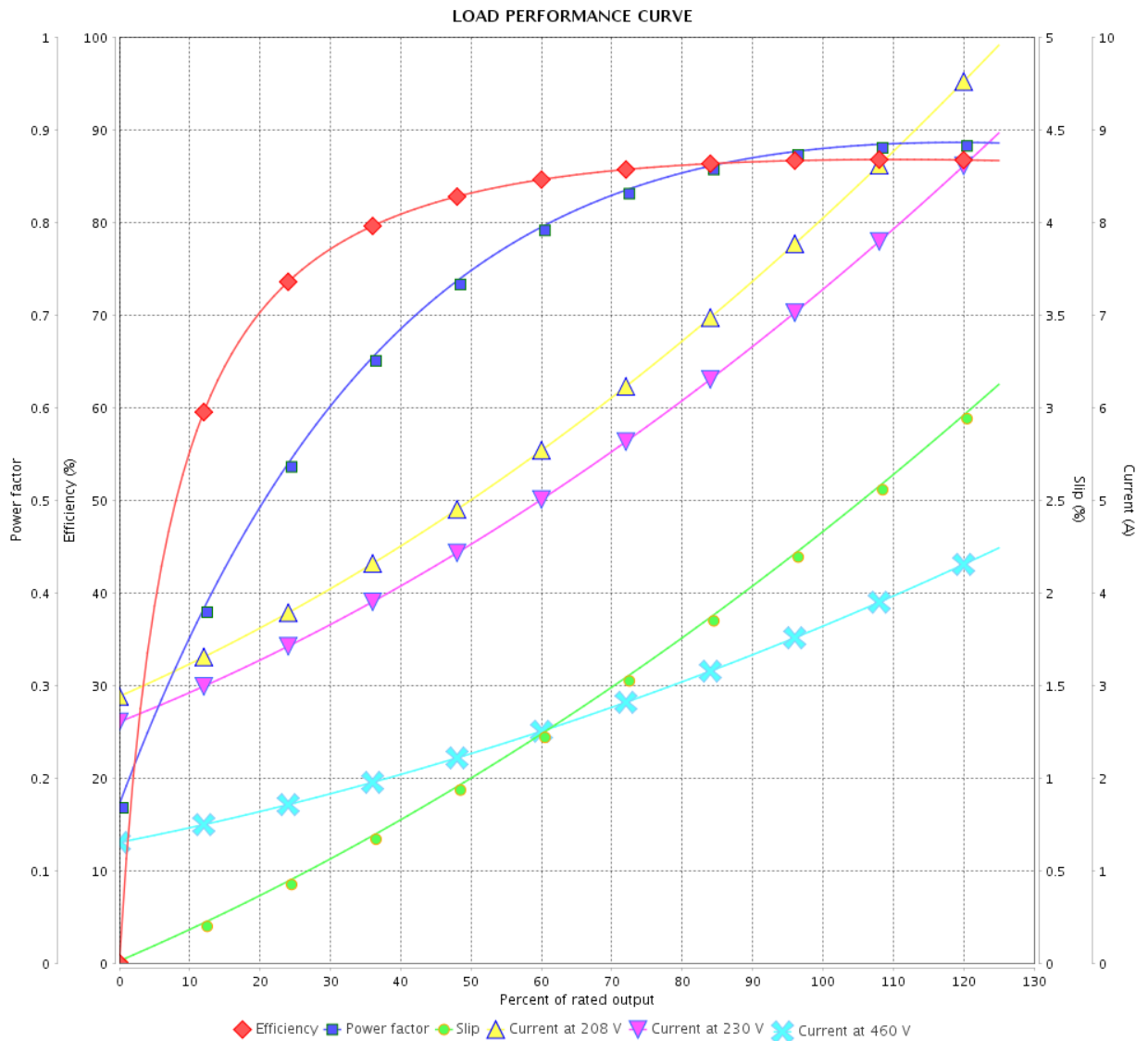


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Performance : 230/460 V 60 Hz 2P

Rated current : 7.26/3.63 A
 LRC : 8.6
 Rated torque : 4.48 ft.lb
 Locked rotor torque : 220 %
 Breakdown torque : 340 %
 Rated speed : 3515 rpm

Moment of inertia (J) : 0.1889 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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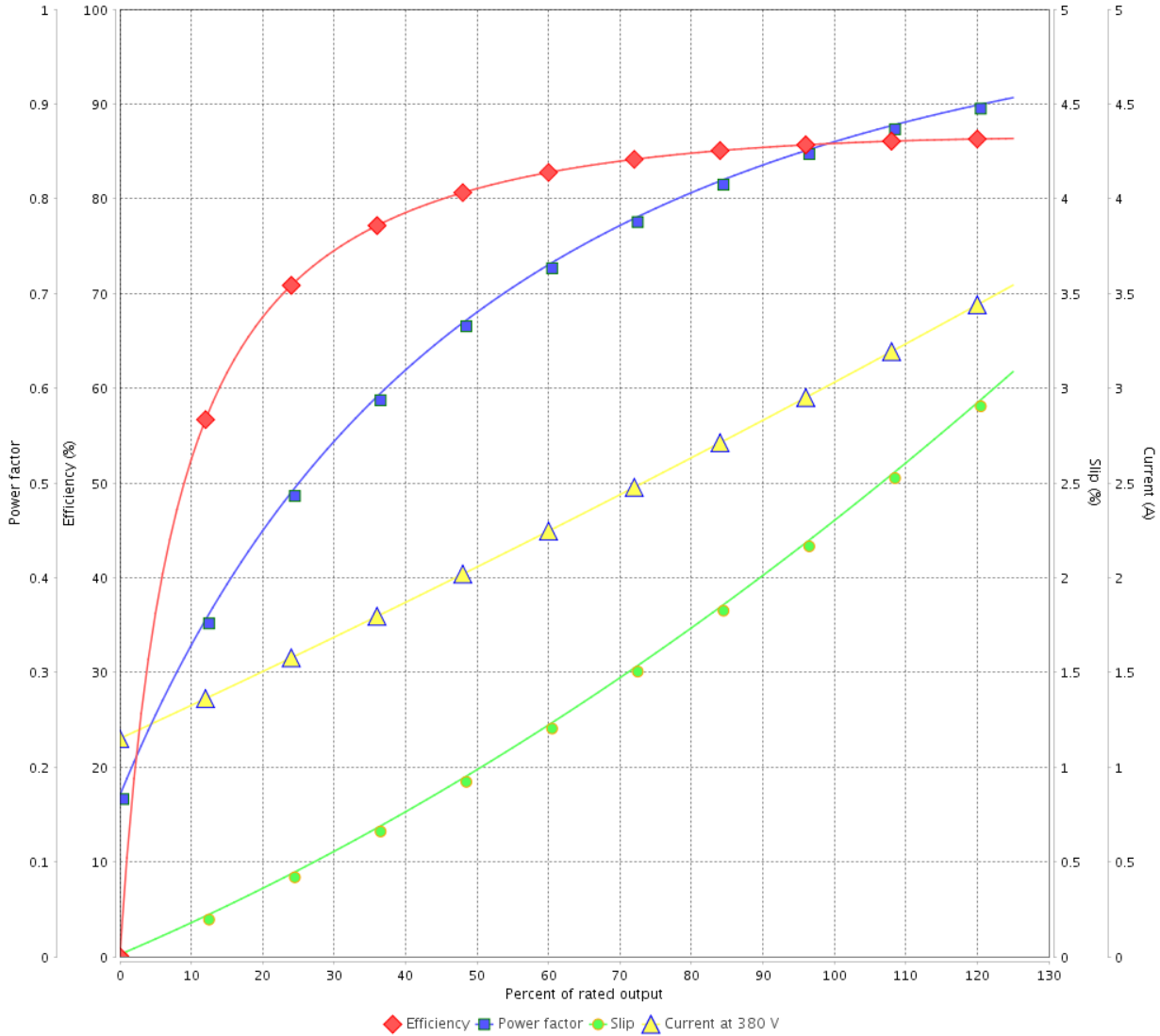
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Performance : 380 V 50 Hz 2P IE3

Rated current : 3.09 A
 LRC : 9.6
 Rated torque : 3.58 ft.lb
 Locked rotor torque : 240 %
 Breakdown torque : 380 %
 Rated speed : 2930 rpm

Moment of inertia (J) : 0.1889 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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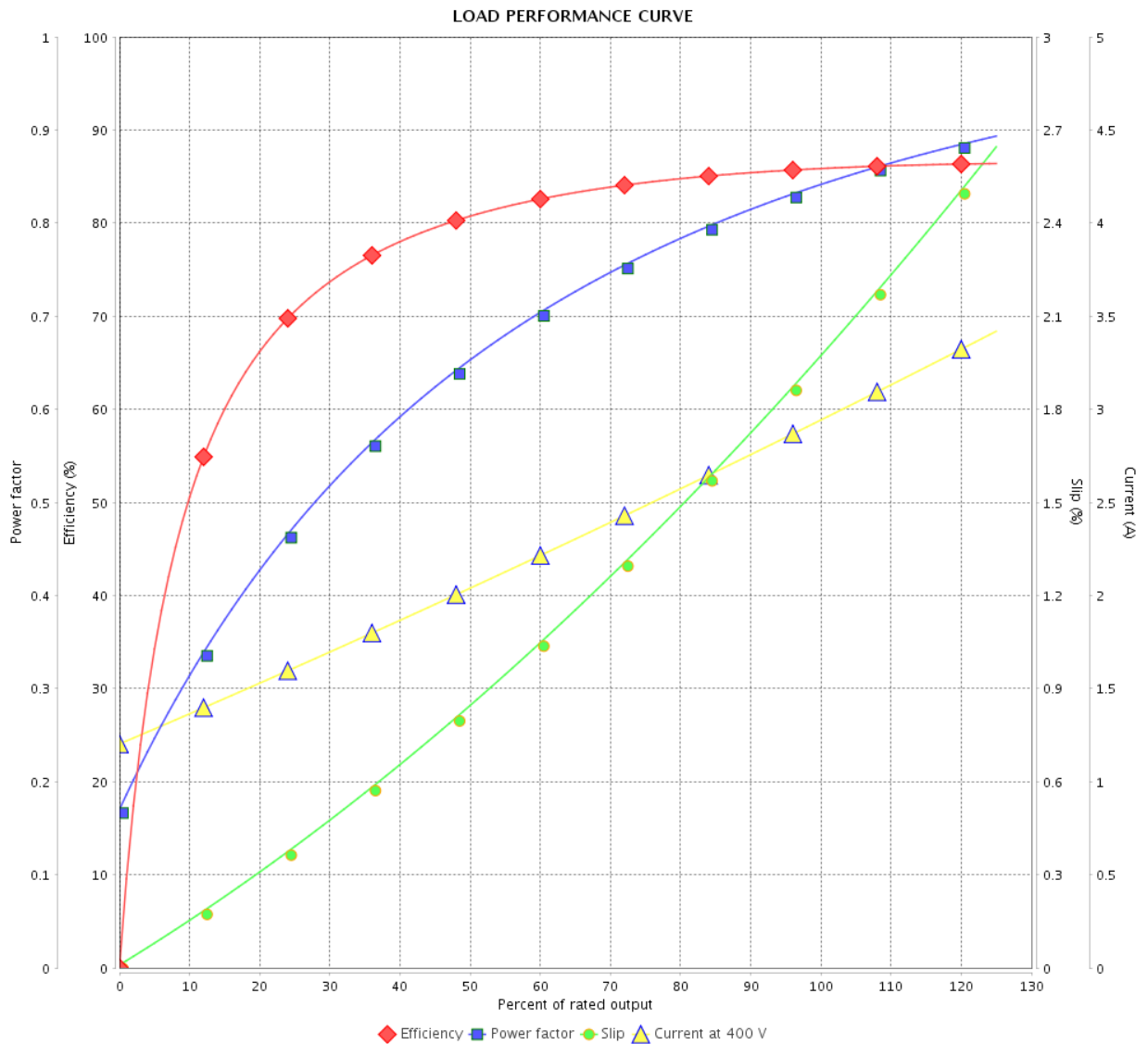


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Performance : 400 V 50 Hz 2P IE3

Rated current : 3.00 A
 LRC : 10.7
 Rated torque : 3.57 ft.lb
 Locked rotor torque : 280 %
 Breakdown torque : 440 %
 Rated speed : 2940 rpm

Moment of inertia (J) : 0.1889 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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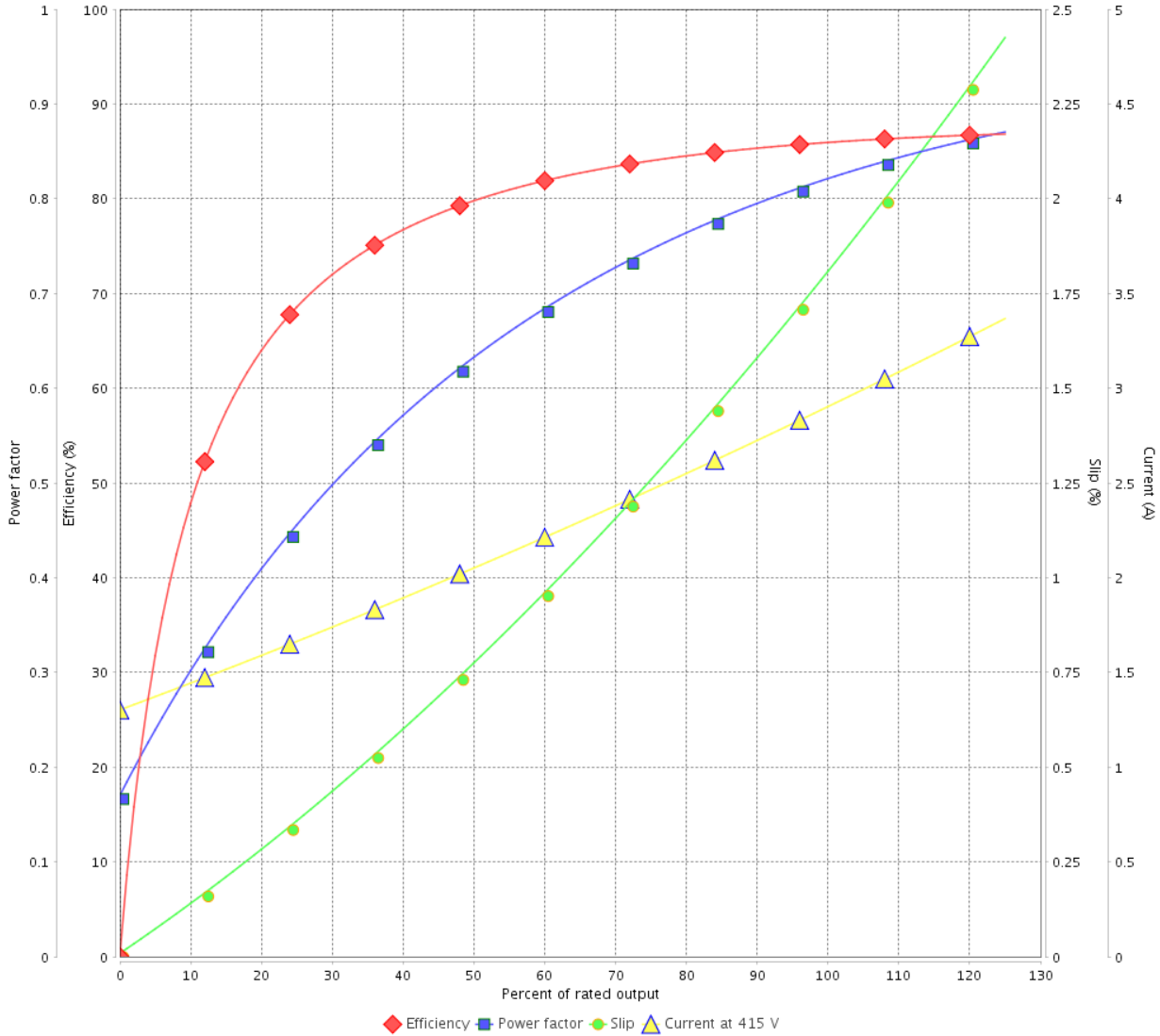
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Performance : 415 V 50 Hz 2P IE3

Rated current : 2.96 A
 LRC : 11.1
 Rated torque : 3.57 ft.lb
 Locked rotor torque : 320 %
 Breakdown torque : 459 %
 Rated speed : 2945 rpm

Moment of inertia (J) : 0.1889 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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Three Phase Induction Motor - Squirrel Cage

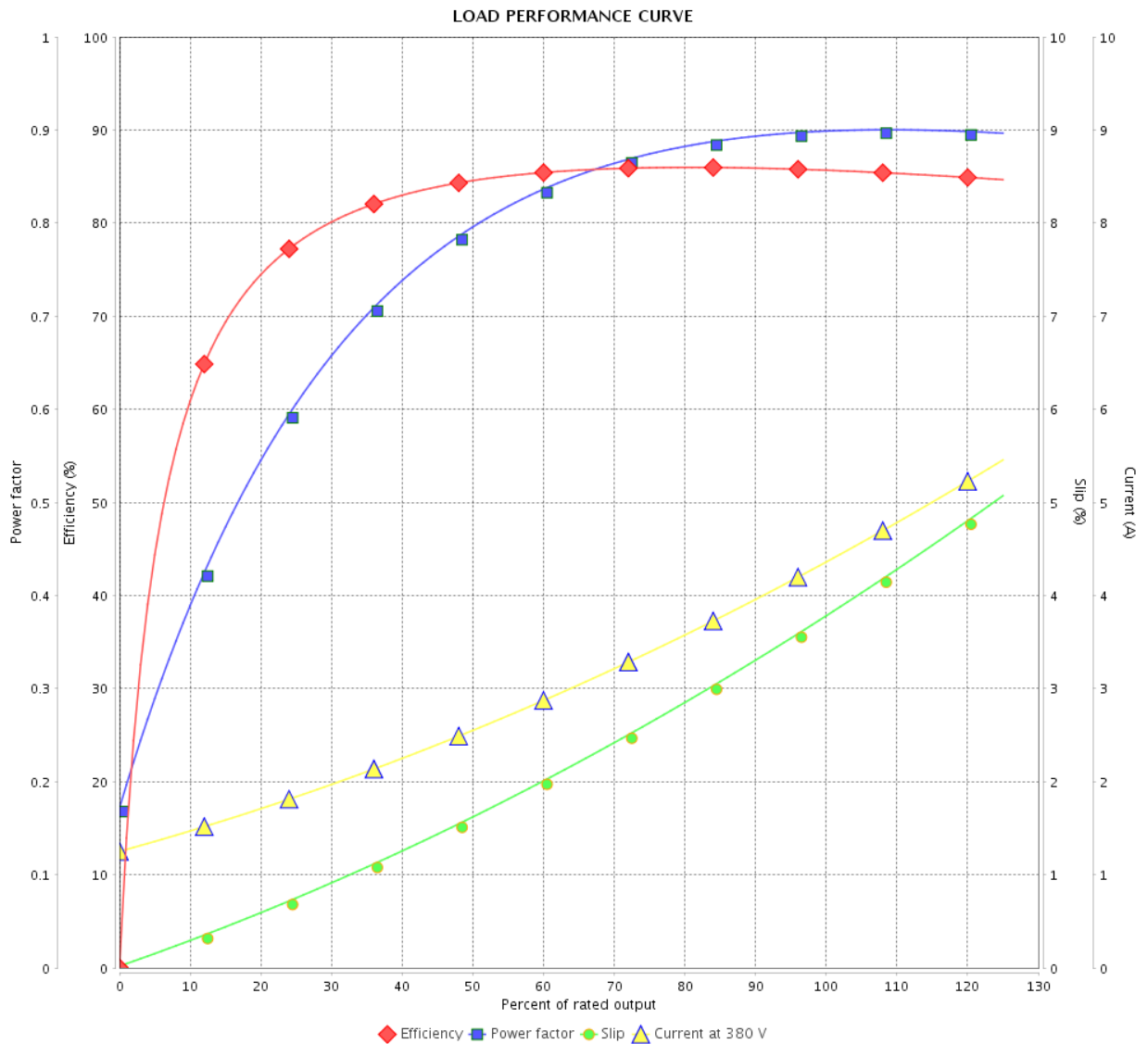


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Product line : NEMA Premium Efficiency Three-Phase

Product code : 12445770

Catalog # : 00336ET3E182TC-W22



Performance : 380 V 50 Hz 2P IE2

Rated current : 4.34 A
 LRC : 6.8
 Rated torque : 5.46 ft.lb
 Locked rotor torque : 180 %
 Breakdown torque : 250 %
 Rated speed : 2885 rpm

Moment of inertia (J) : 0.1889 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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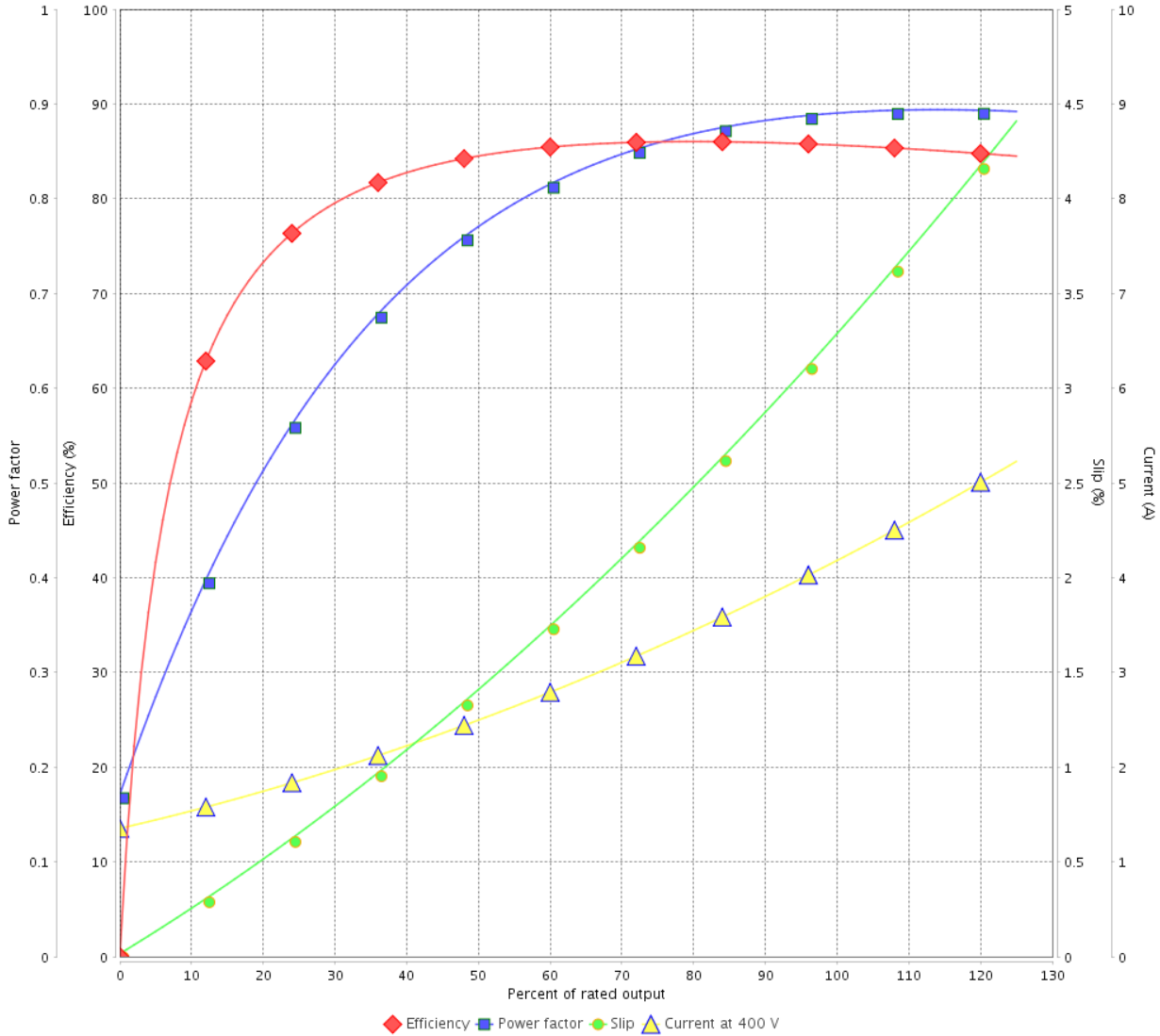
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Performance : 400 V 50 Hz 2P IE2

Rated current : 4.17 A
 LRC : 7.6
 Rated torque : 5.43 ft.lb
 Locked rotor torque : 200 %
 Breakdown torque : 280 %
 Rated speed : 2900 rpm

Moment of inertia (J) : 0.1889 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

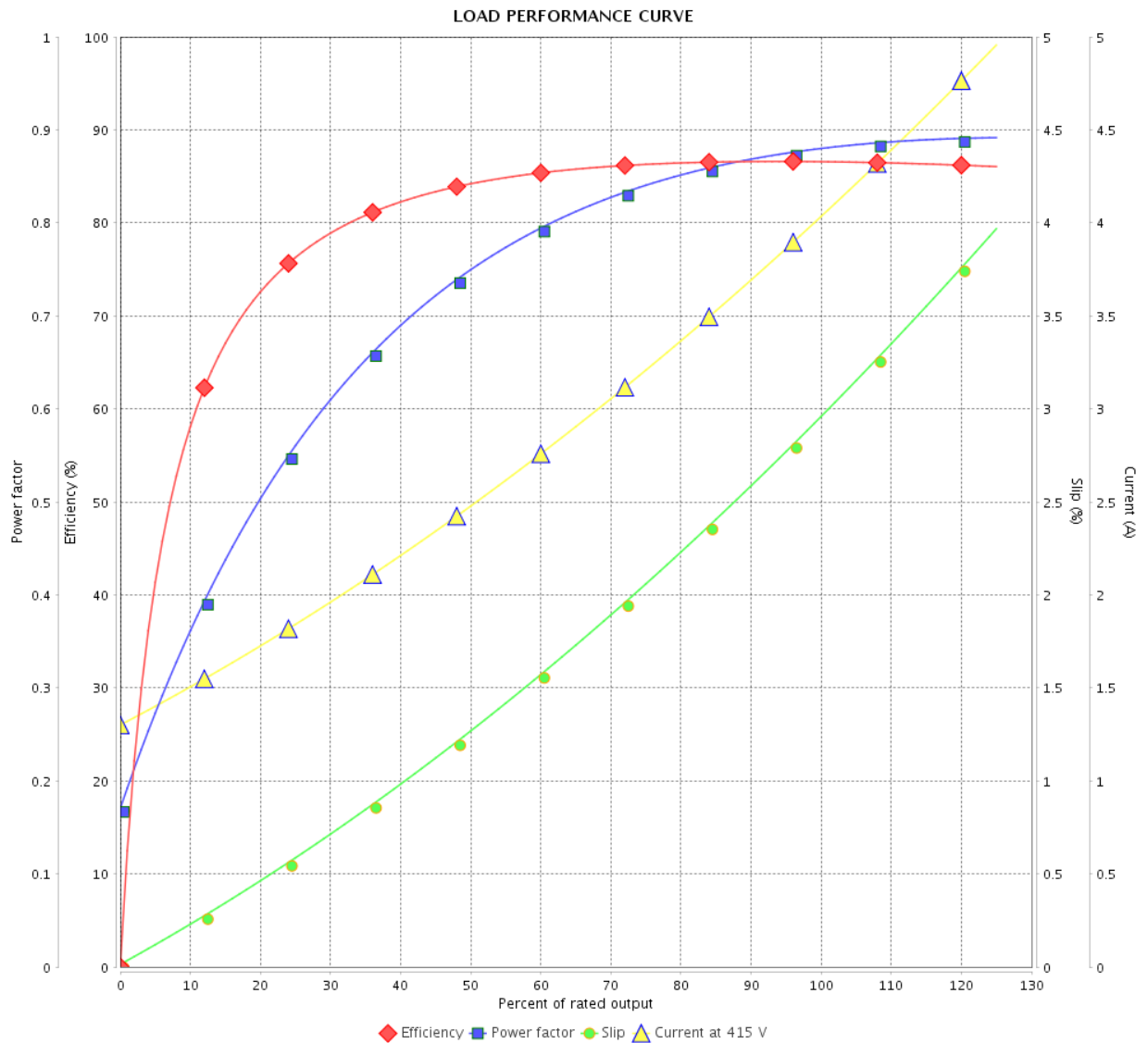


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Performance : 415 V 50 Hz 2P IE3

Rated current : 4.02 A
 LRC : 8.1
 Rated torque : 5.41 ft.lb
 Locked rotor torque : 220 %
 Breakdown torque : 310 %
 Rated speed : 2910 rpm

Moment of inertia (J) : 0.1889 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 : 12445770
Catalog # : 00336ET3E182TC-W22

Performance : 230/460 V 60 Hz 2P

Rated current	: 7.26/3.63 A	Moment of inertia (J)	: 0.1889 sq.ft.lb
LRC	: 8.6	Duty cycle	: Cont.(S1)
Rated torque	: 4.48 ft.lb	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.25
Breakdown torque	: 340 %	Temperature rise	: 80 K
Rated speed	: 3515 rpm	Design	: B

Heating constant

Cooling constant

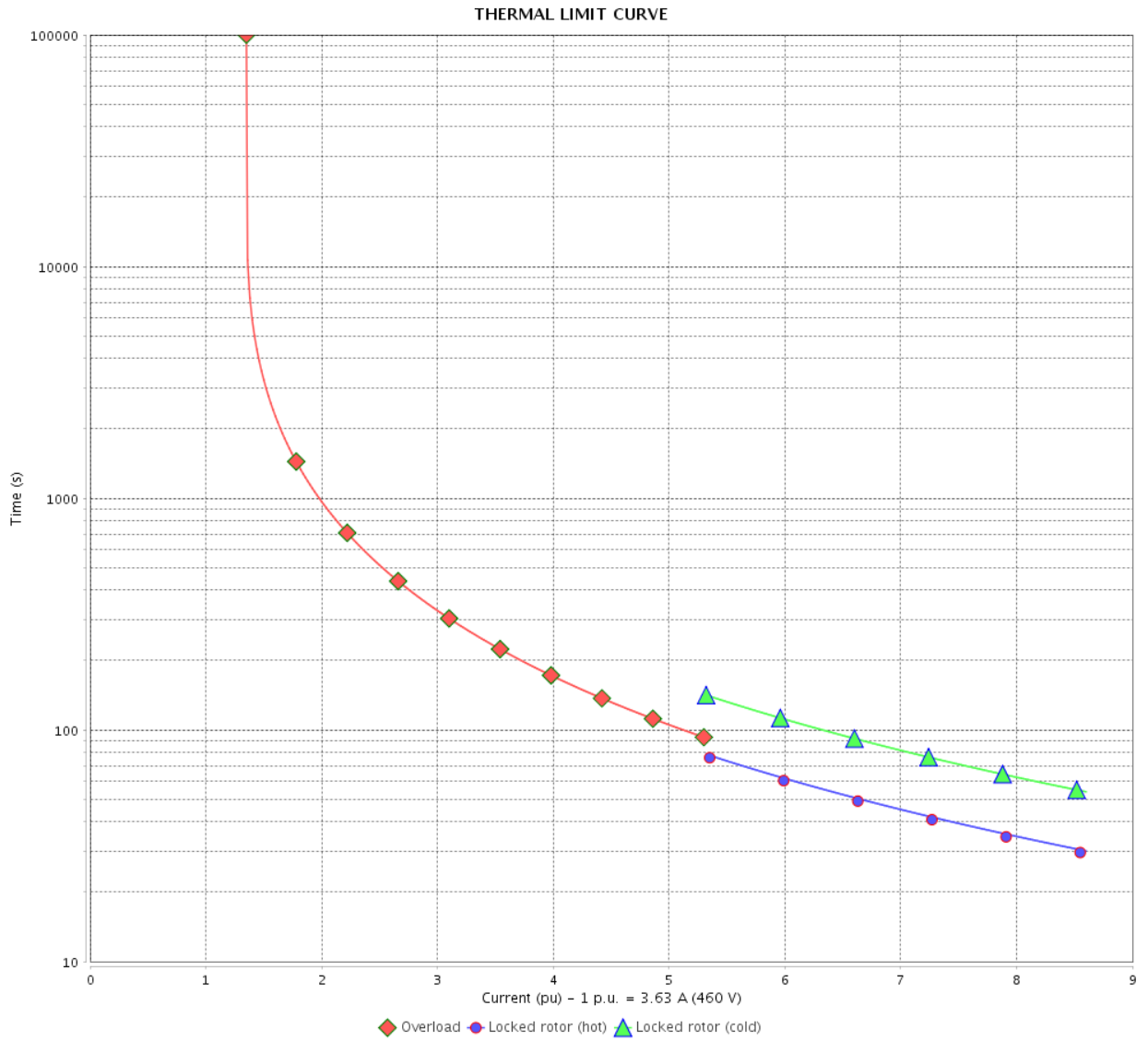
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Customer : _____



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Performance : 380 V 50 Hz 2P IE3

Rated current	: 3.09 A	Moment of inertia (J)	: 0.1889 sq.ft.lb
LRC	: 9.6	Duty cycle	: Cont.(S1)
Rated torque	: 3.58 ft.lb	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.25
Breakdown torque	: 380 %	Temperature rise	: 80 K
Rated speed	: 2930 rpm	Design	: B

Heating constant

Cooling constant

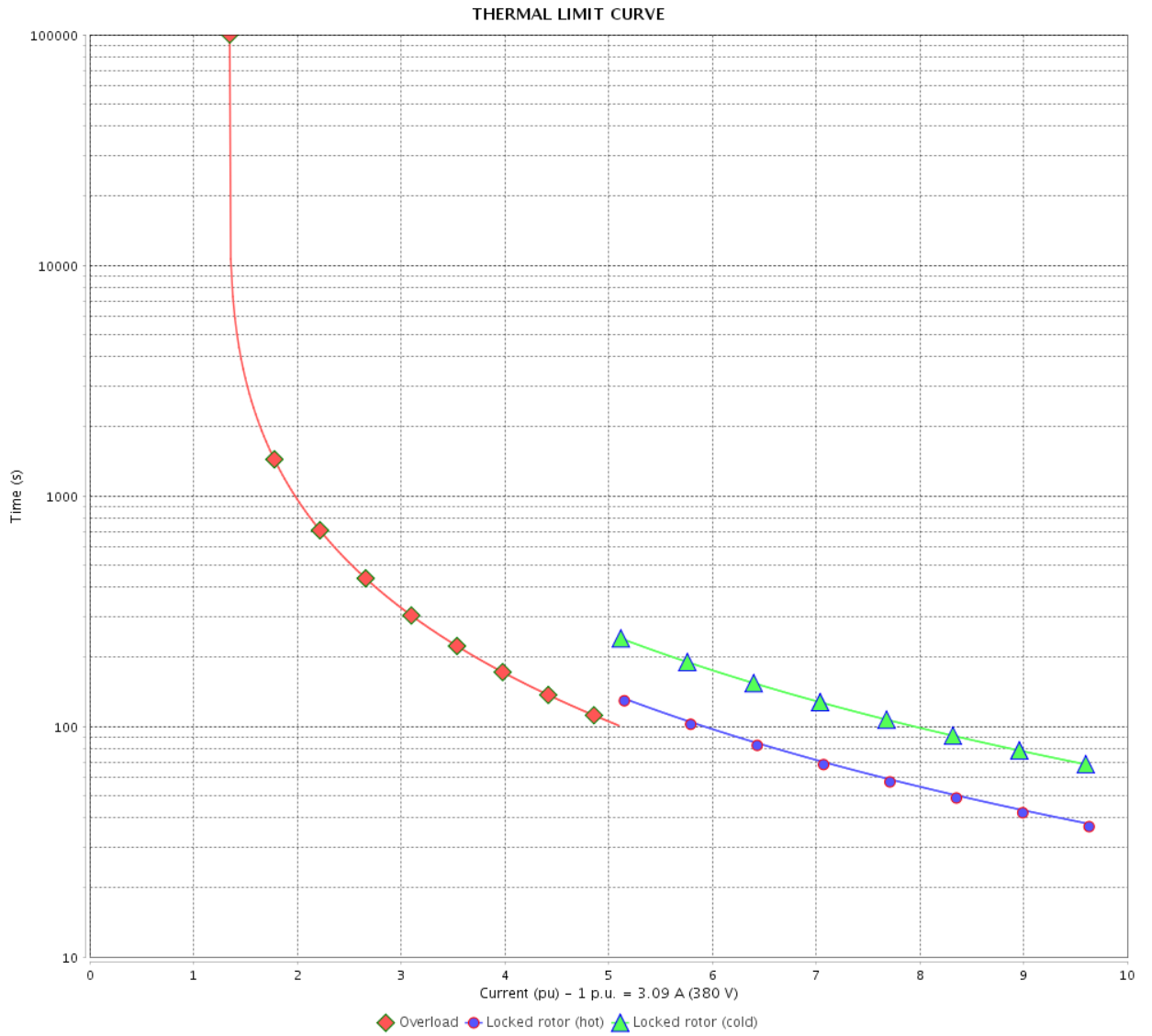
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Customer :

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Performance : 400 V 50 Hz 2P IE3

Rated current	: 3.00 A	Moment of inertia (J)	: 0.1889 sq.ft.lb
LRC	: 10.7	Duty cycle	: Cont.(S1)
Rated torque	: 3.57 ft.lb	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	: 1.25
Breakdown torque	: 440 %	Temperature rise	: 80 K
Rated speed	: 2940 rpm	Design	: B

Heating constant

Cooling constant

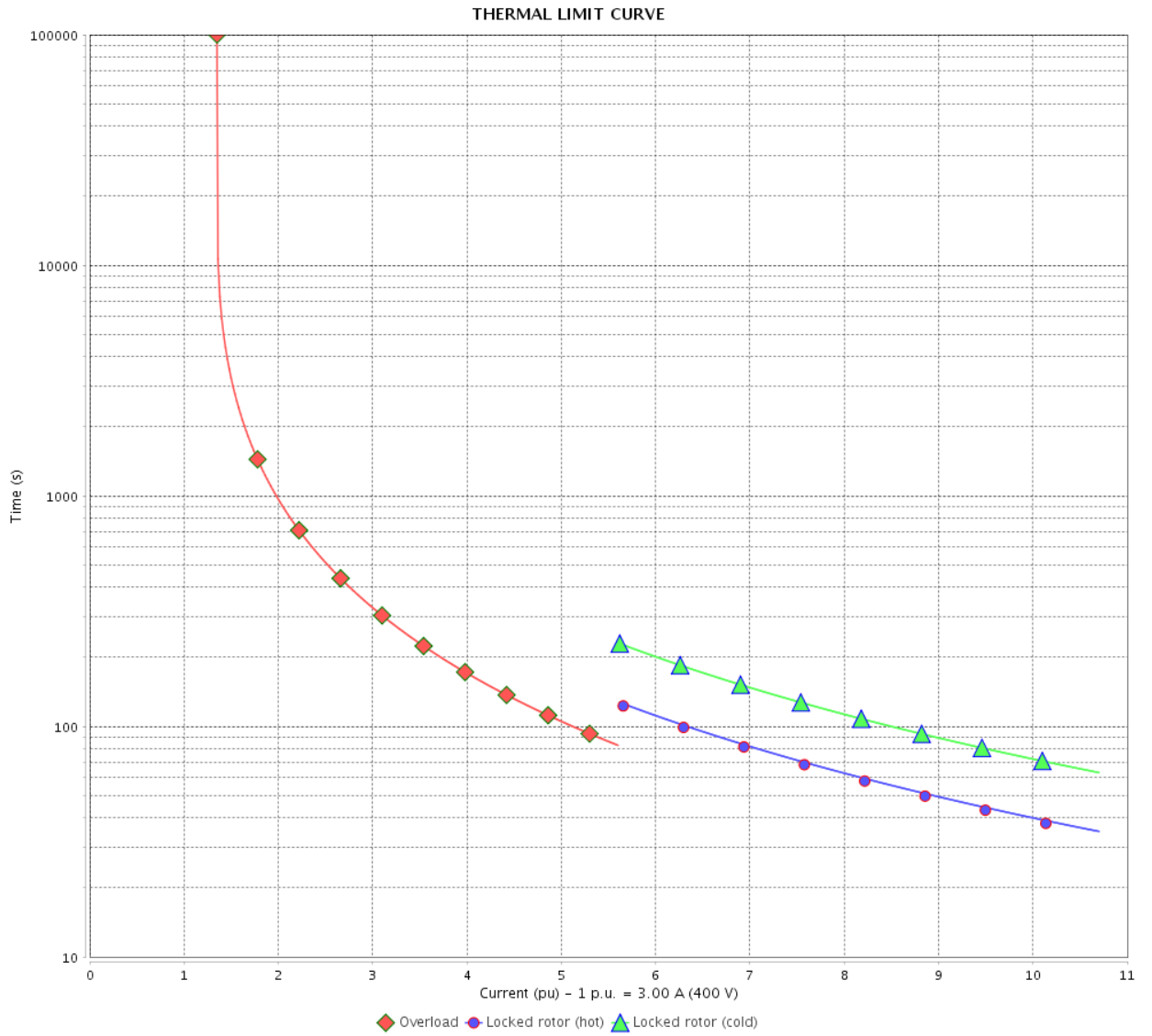
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LRC	: 11.1	Duty cycle	: Cont.(S1)
Rated torque	: 3.57 ft.lb	Insulation class	: F
Locked rotor torque	: 320 %	Service factor	: 1.25
Breakdown torque	: 459 %	Temperature rise	: 80 K
Rated speed	: 2945 rpm	Design	: B

Heating constant

Cooling constant

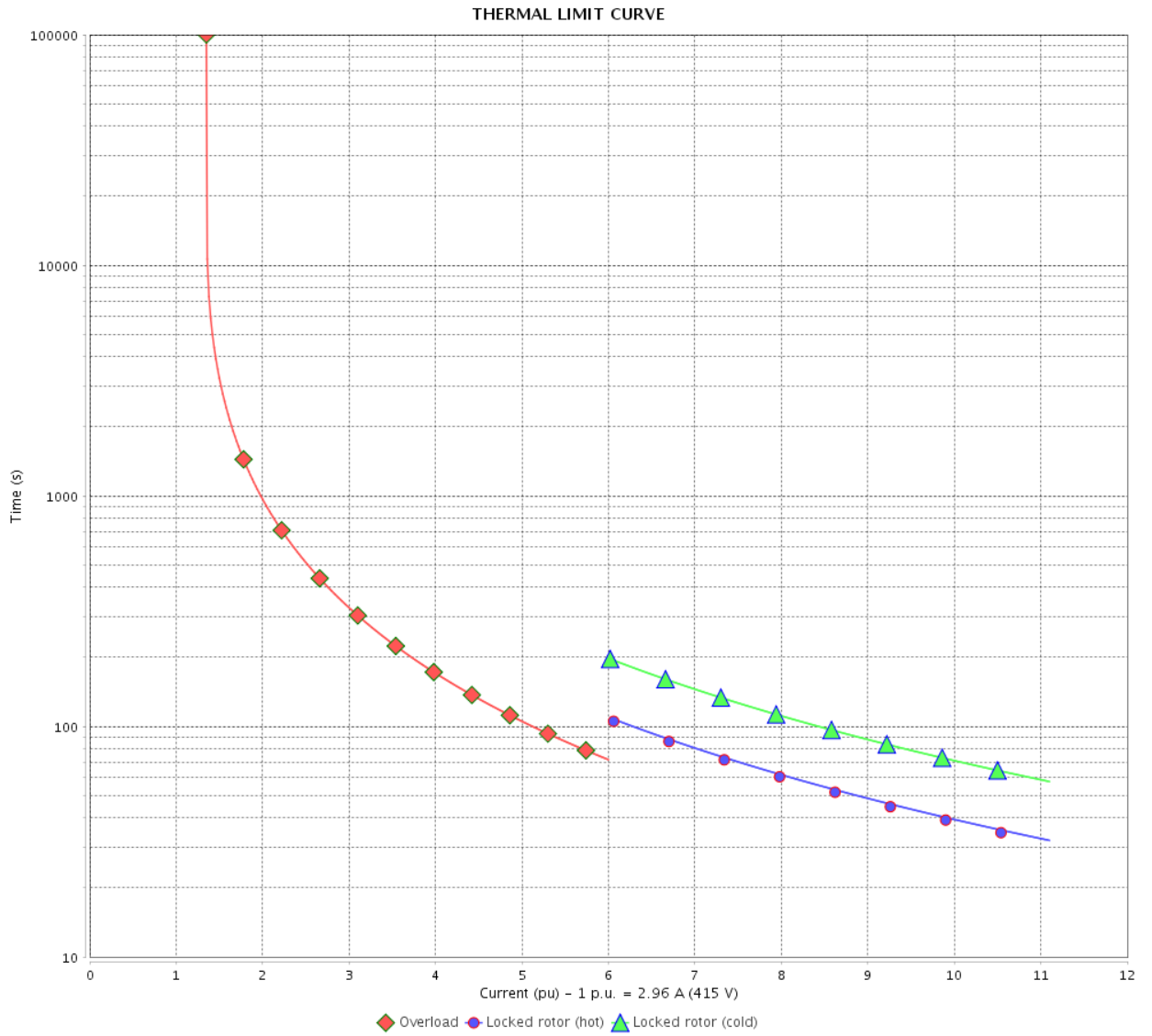
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Customer : _____



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Performance : 380 V 50 Hz 2P IE2

Rated current	: 4.34 A	Moment of inertia (J)	: 0.1889 sq.ft.lb
LRC	: 6.8	Duty cycle	: Cont.(S1)
Rated torque	: 5.46 ft.lb	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.25
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 2885 rpm	Design	: B

Heating constant

Cooling constant

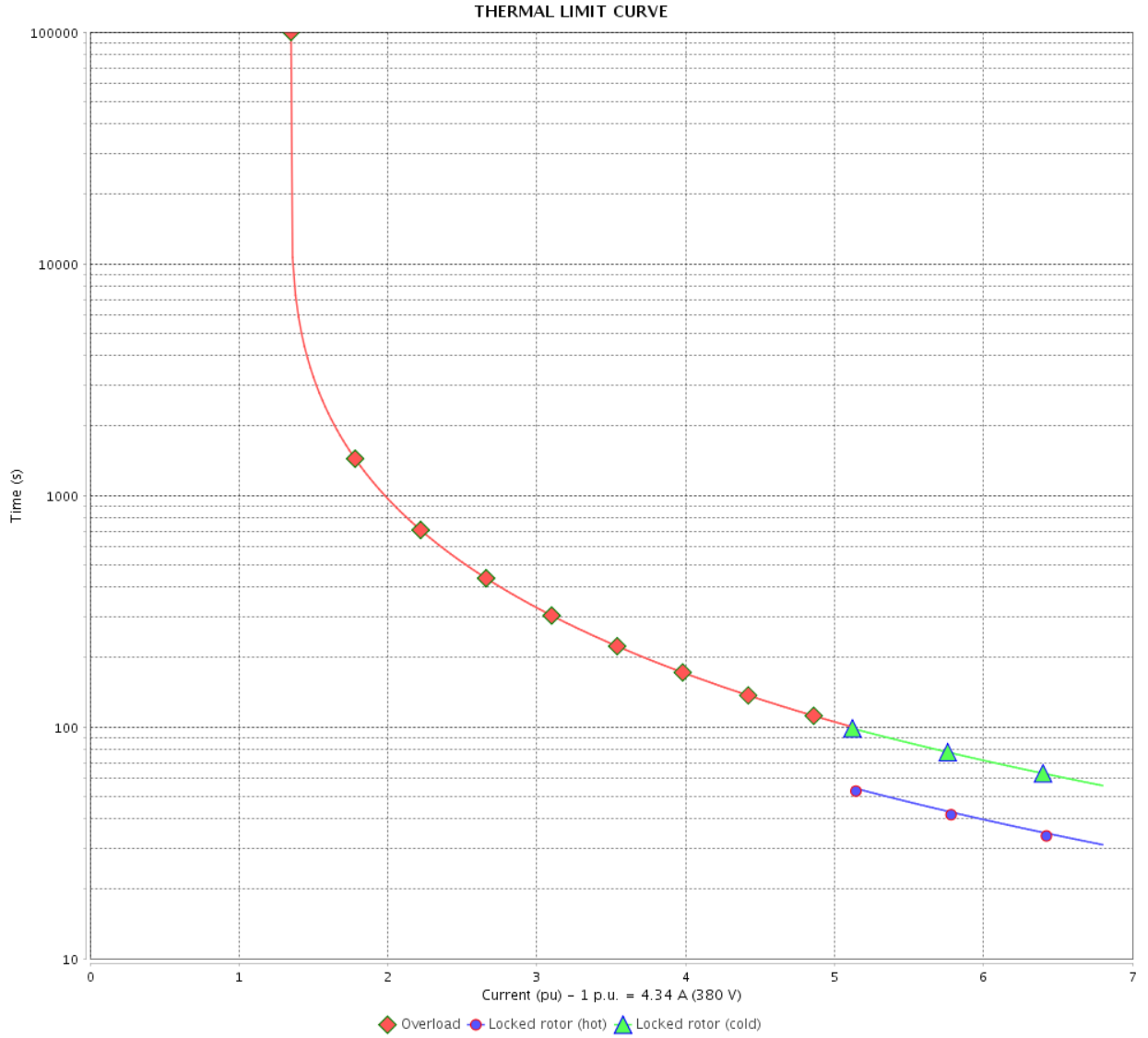
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Performance : 400 V 50 Hz 2P IE2

Rated current	: 4.17 A	Moment of inertia (J)	: 0.1889 sq.ft.lb
LRC	: 7.6	Duty cycle	: Cont.(S1)
Rated torque	: 5.43 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.25
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 2900 rpm	Design	: B

Heating constant

Cooling constant

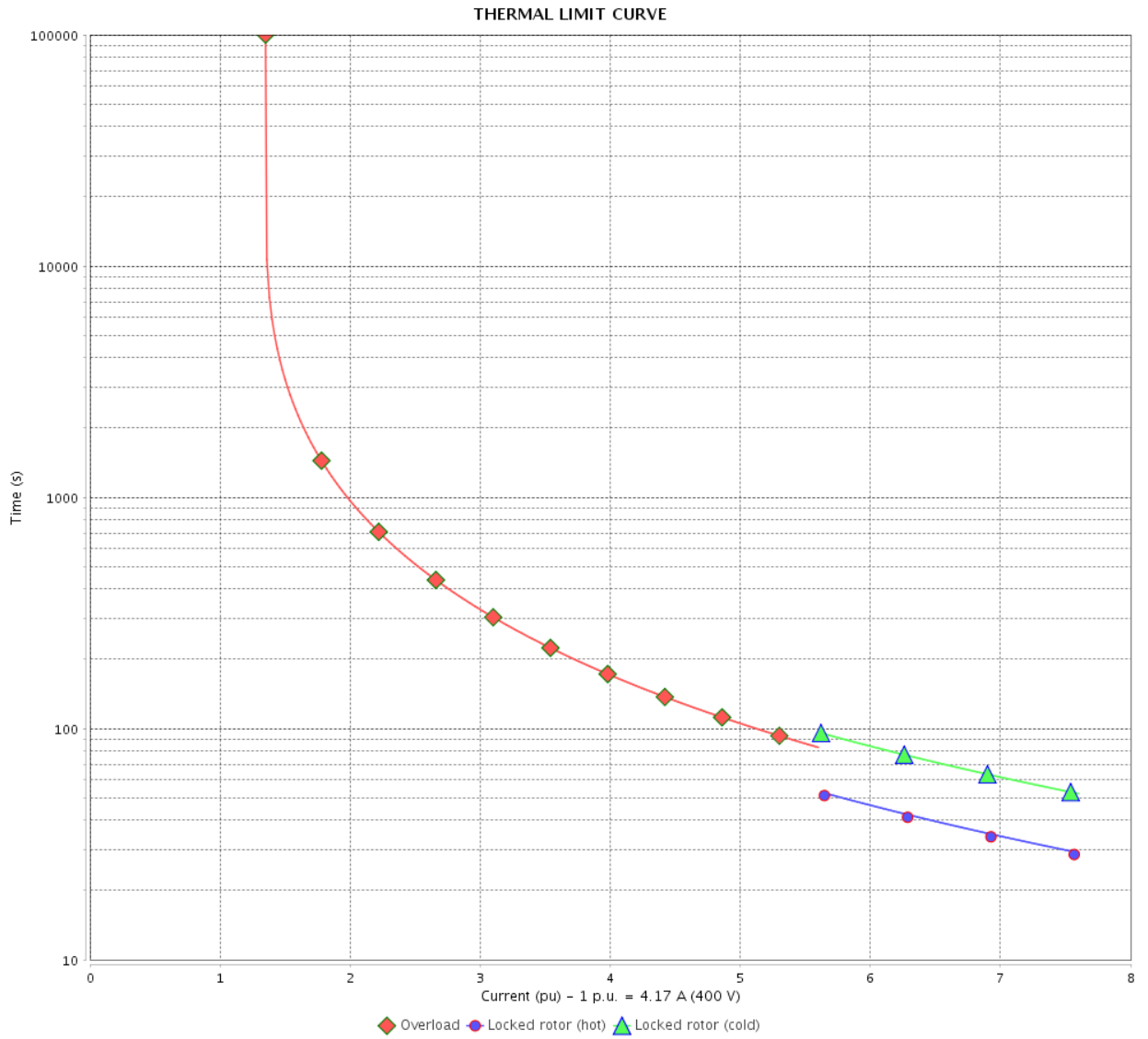
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	13/04/2022		26 / 36	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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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 : 12445770
Catalog # : 00336ET3E182TC-W22

Performance : 415 V 50 Hz 2P IE3

Rated current	: 4.02 A	Moment of inertia (J)	: 0.1889 sq.ft.lb
LRC	: 8.1	Duty cycle	: Cont.(S1)
Rated torque	: 5.41 ft.lb	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.25
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 2910 rpm	Design	: B

Heating constant

Cooling constant

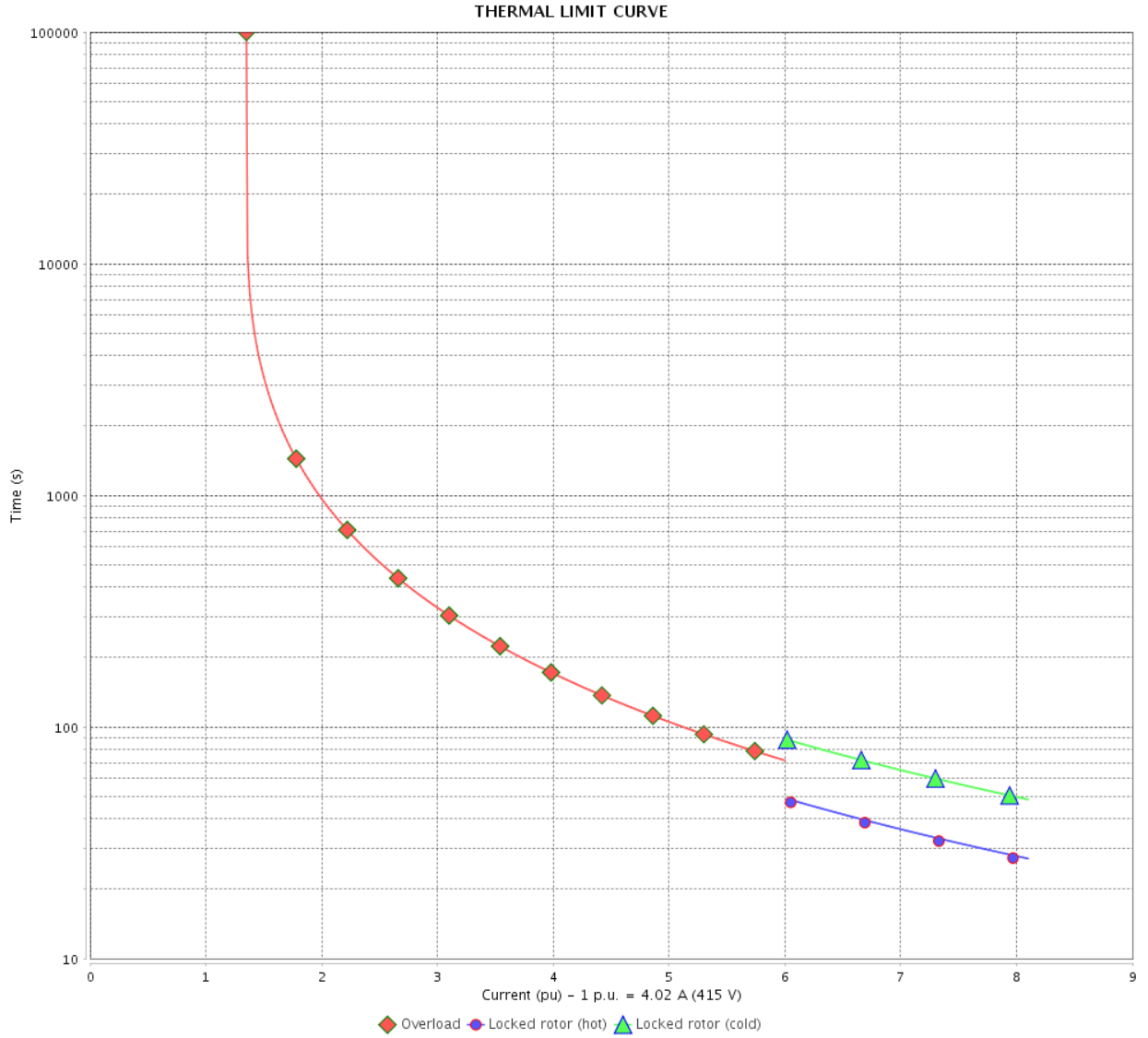
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	13/04/2022		28 / 36	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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Performed by		Page		Revision
Checked by		29 / 36		
Date		13/04/2022		

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

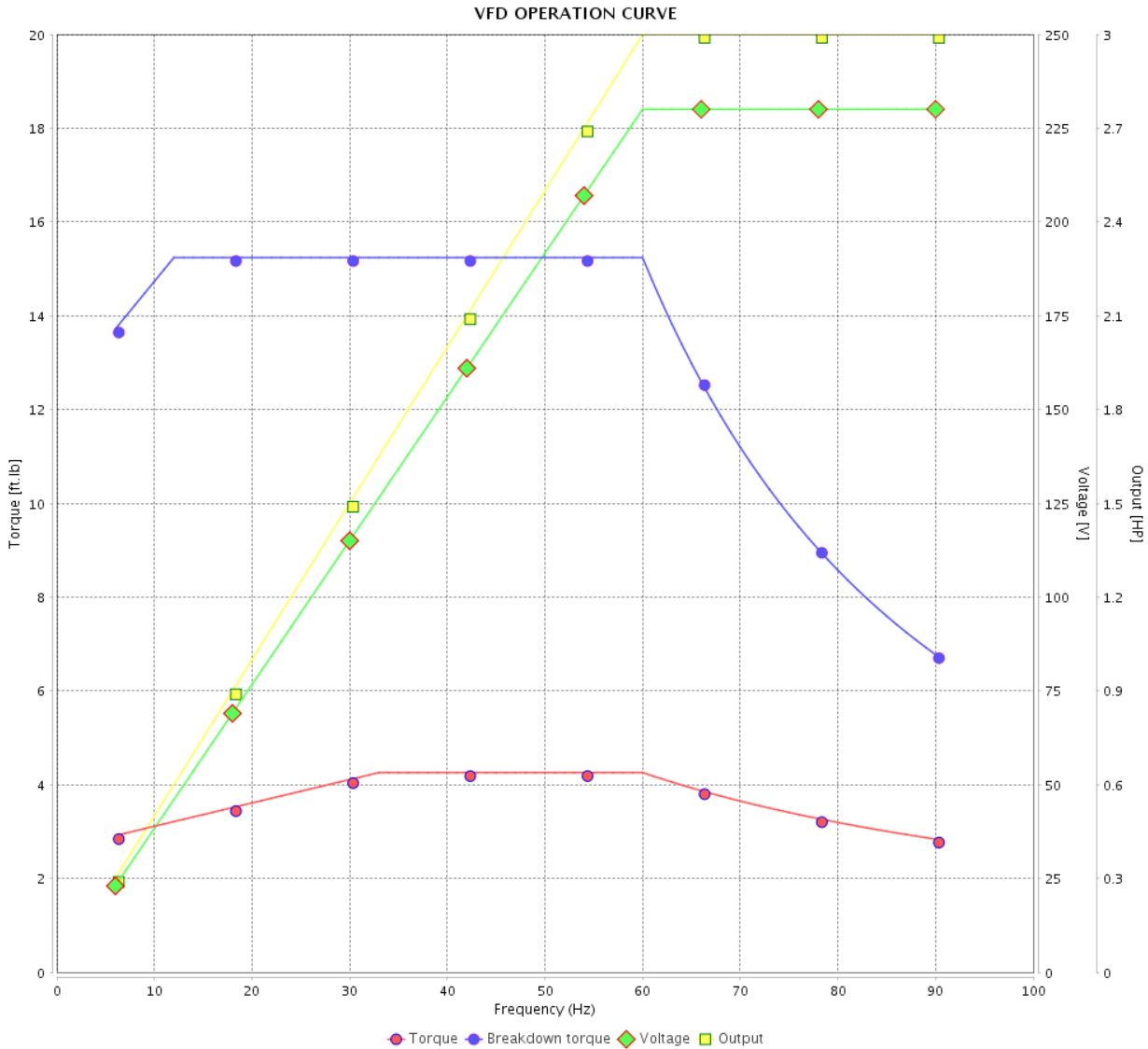


Customer : _____

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12445770

Catalog # : 00336ET3E182TC-W22



Performance : 230/460 V 60 Hz 2P

Rated current : 7.26/3.63 A
 LRC : 8.6
 Rated torque : 4.48 ft.lb
 Locked rotor torque : 220 %
 Breakdown torque : 340 %
 Rated speed : 3515 rpm

Moment of inertia (J) : 0.1889 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

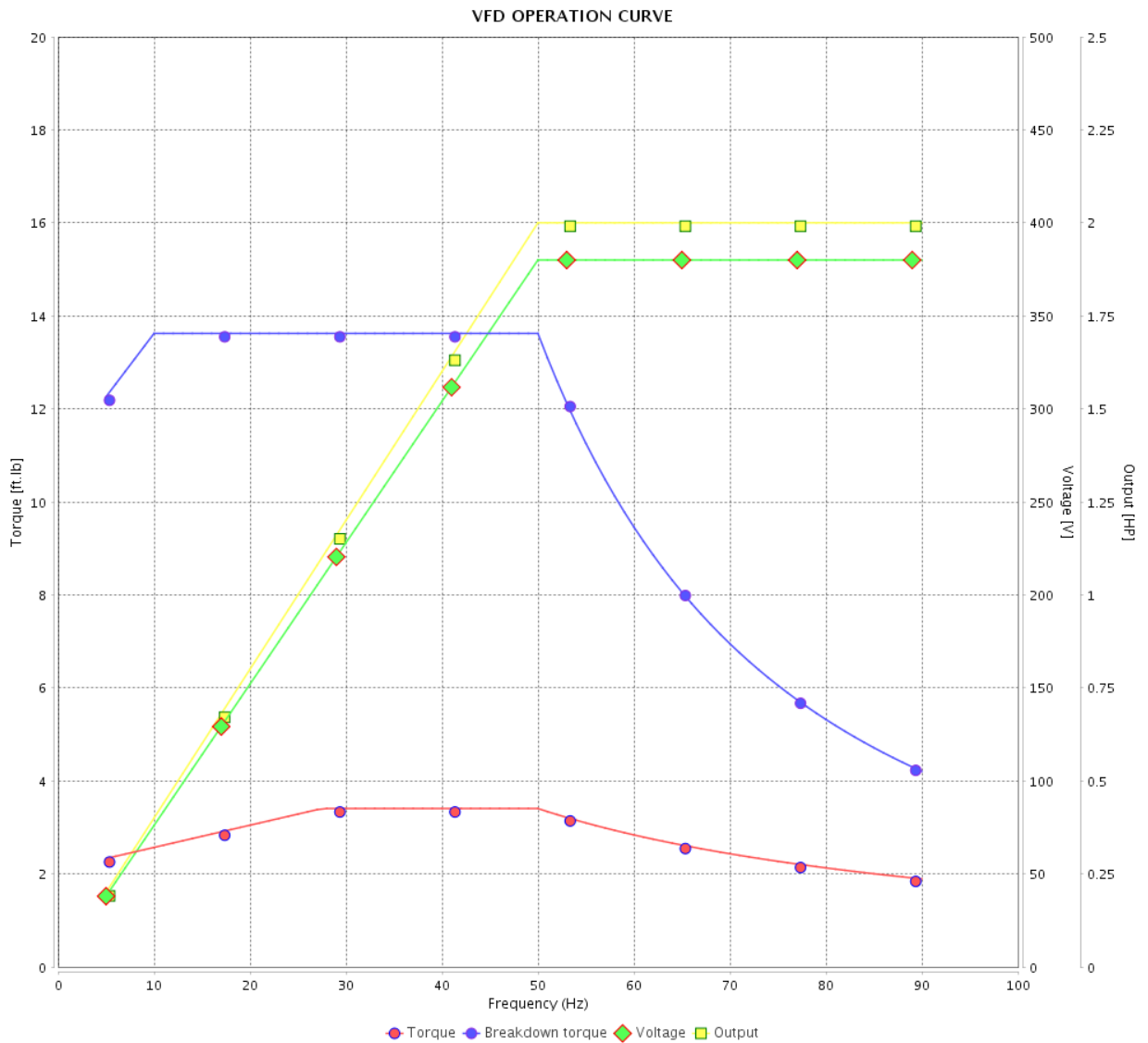


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12445770

Catalog # : 00336ET3E182TC-W22



Performance : 380 V 50 Hz 2P IE3

Rated current : 3.09 A
 LRC : 9.6
 Rated torque : 3.58 ft.lb
 Locked rotor torque : 240 %
 Breakdown torque : 380 %
 Rated speed : 2930 rpm

Moment of inertia (J) : 0.1889 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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				Revision

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



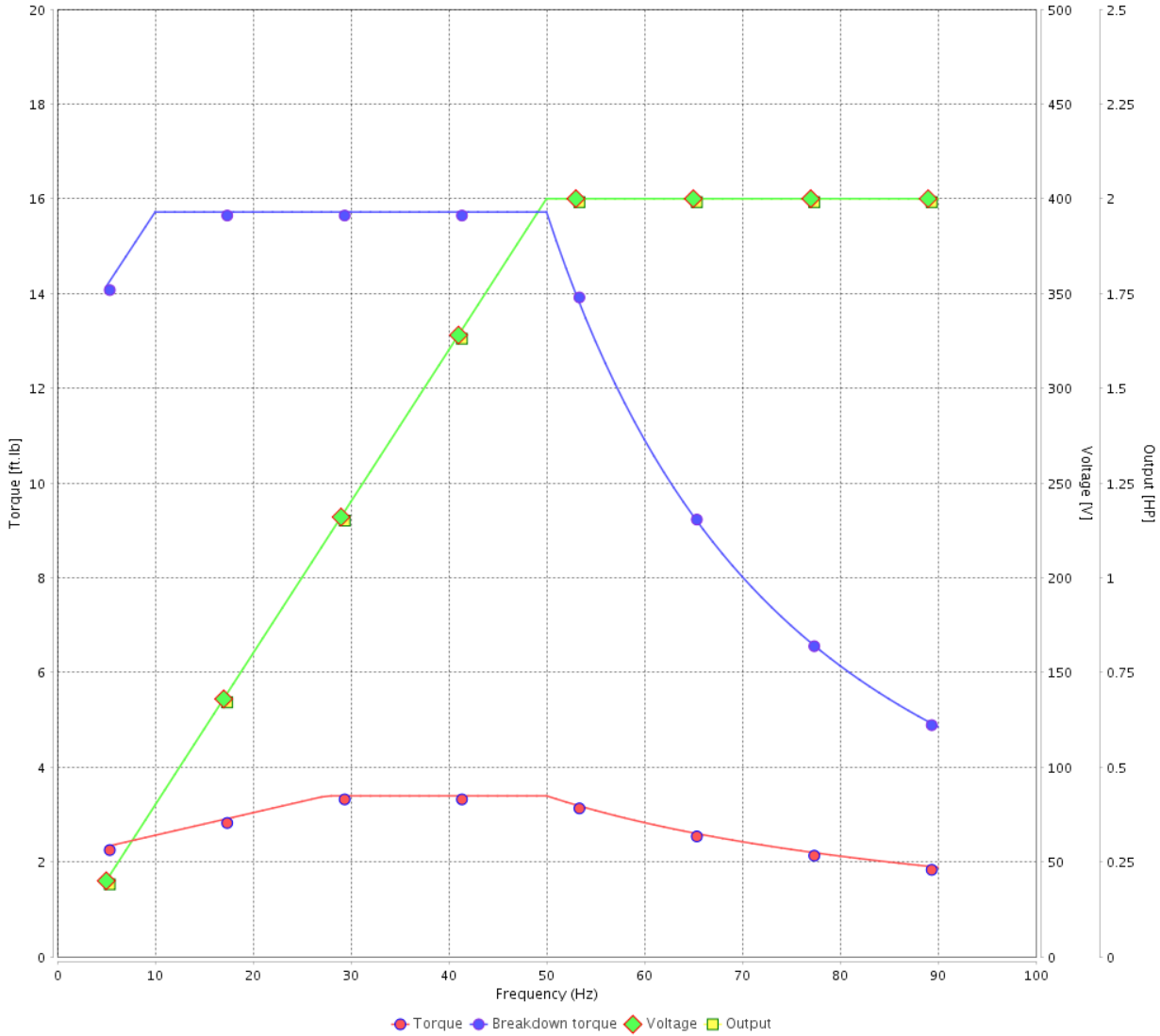
Customer : _____

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12445770

Catalog # : 00336ET3E182TC-W22

VFD OPERATION CURVE



Performance : 400 V 50 Hz 2P IE3

Rated current : 3.00 A
 LRC : 10.7
 Rated torque : 3.57 ft.lb
 Locked rotor torque : 280 %
 Breakdown torque : 440 %
 Rated speed : 2940 rpm

Moment of inertia (J) : 0.1889 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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Date	13/04/2022			

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

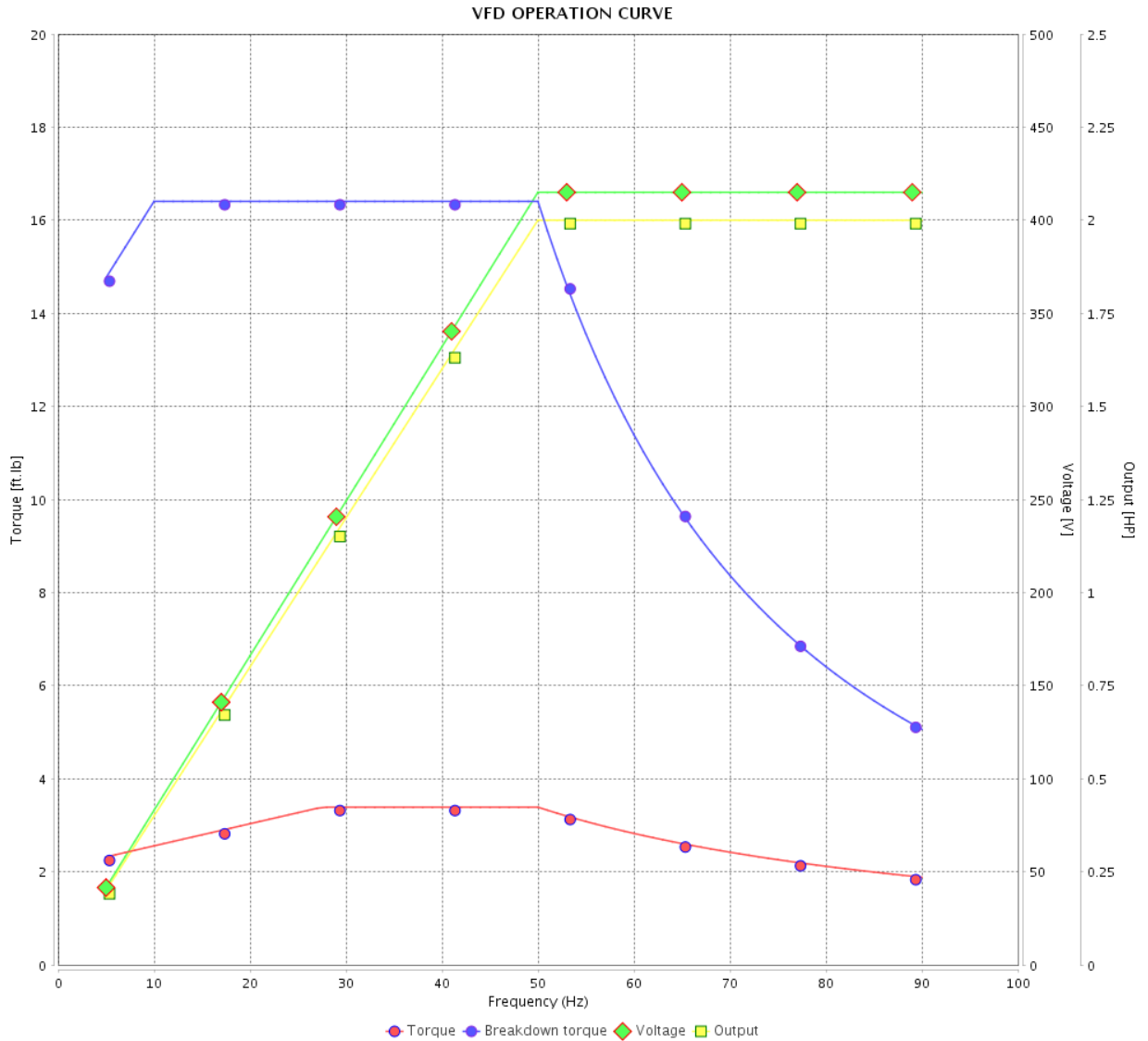


Customer : _____

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12445770

Catalog # : 00336ET3E182TC-W22



Performance : 415 V 50 Hz 2P IE3

Rated current : 2.96 A
 LRC : 11.1
 Rated torque : 3.57 ft.lb
 Locked rotor torque : 320 %
 Breakdown torque : 459 %
 Rated speed : 2945 rpm

Moment of inertia (J) : 0.1889 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

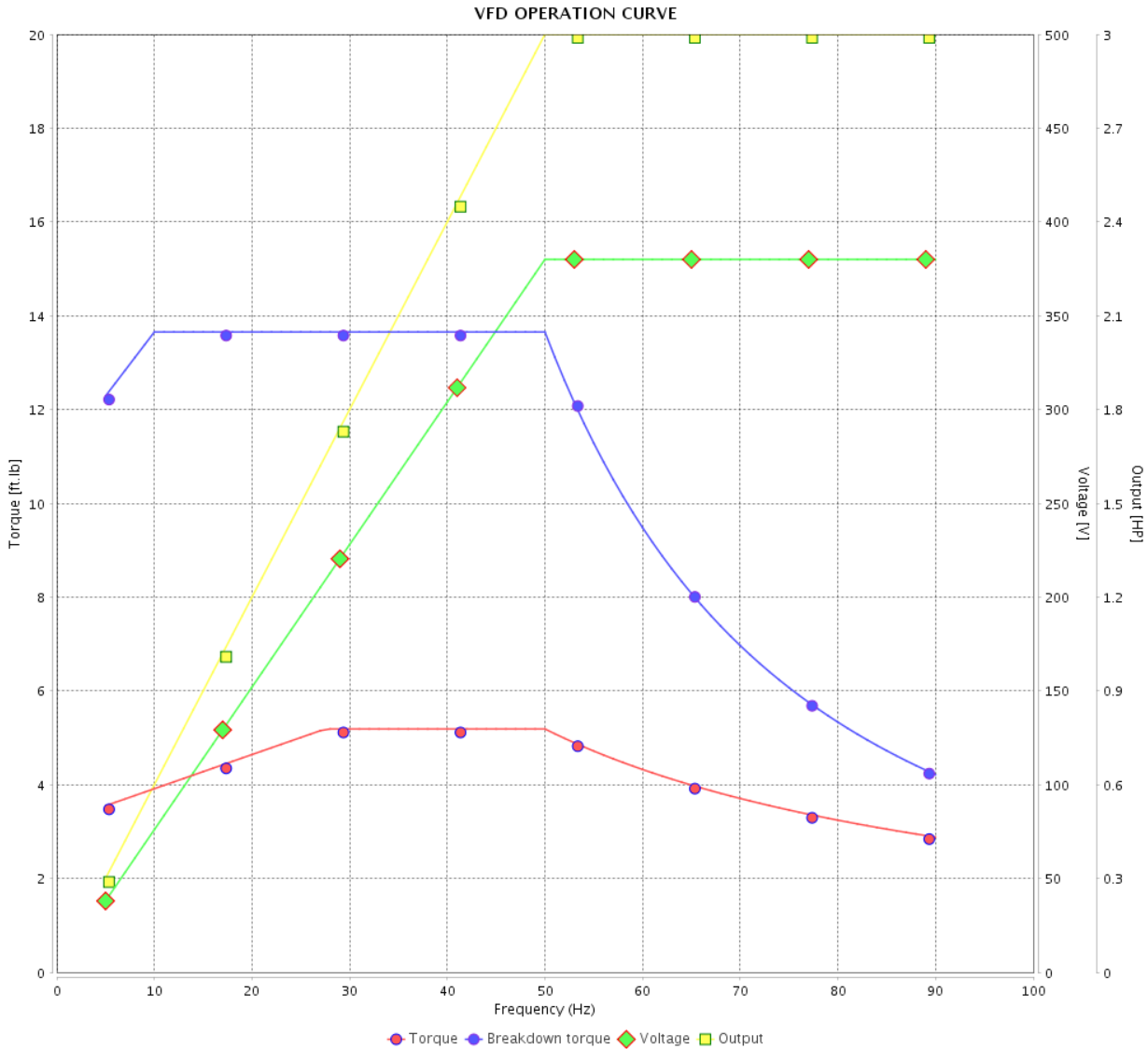


Customer : _____

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12445770

Catalog # : 00336ET3E182TC-W22



Performance : 380 V 50 Hz 2P IE2

Rated current : 4.34 A
 LRC : 6.8
 Rated torque : 5.46 ft.lb
 Locked rotor torque : 180 %
 Breakdown torque : 250 %
 Rated speed : 2885 rpm

Moment of inertia (J) : 0.1889 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

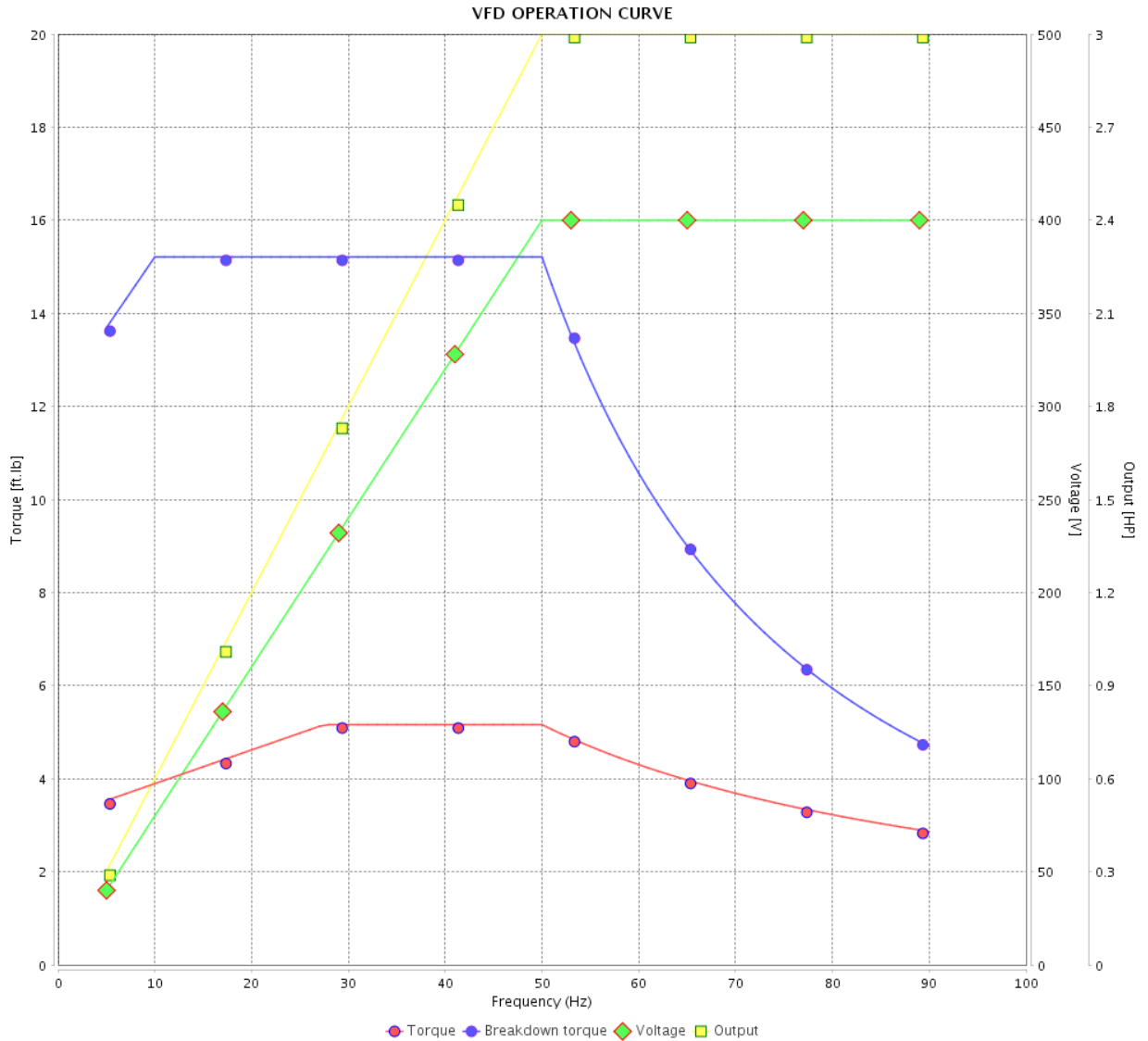


Customer : _____

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12445770

Catalog # : 00336ET3E182TC-W22



Performance : 400 V 50 Hz 2P IE2

Rated current : 4.17 A
 LRC : 7.6
 Rated torque : 5.43 ft.lb
 Locked rotor torque : 200 %
 Breakdown torque : 280 %
 Rated speed : 2900 rpm

Moment of inertia (J) : 0.1889 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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Date	13/04/2022			

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

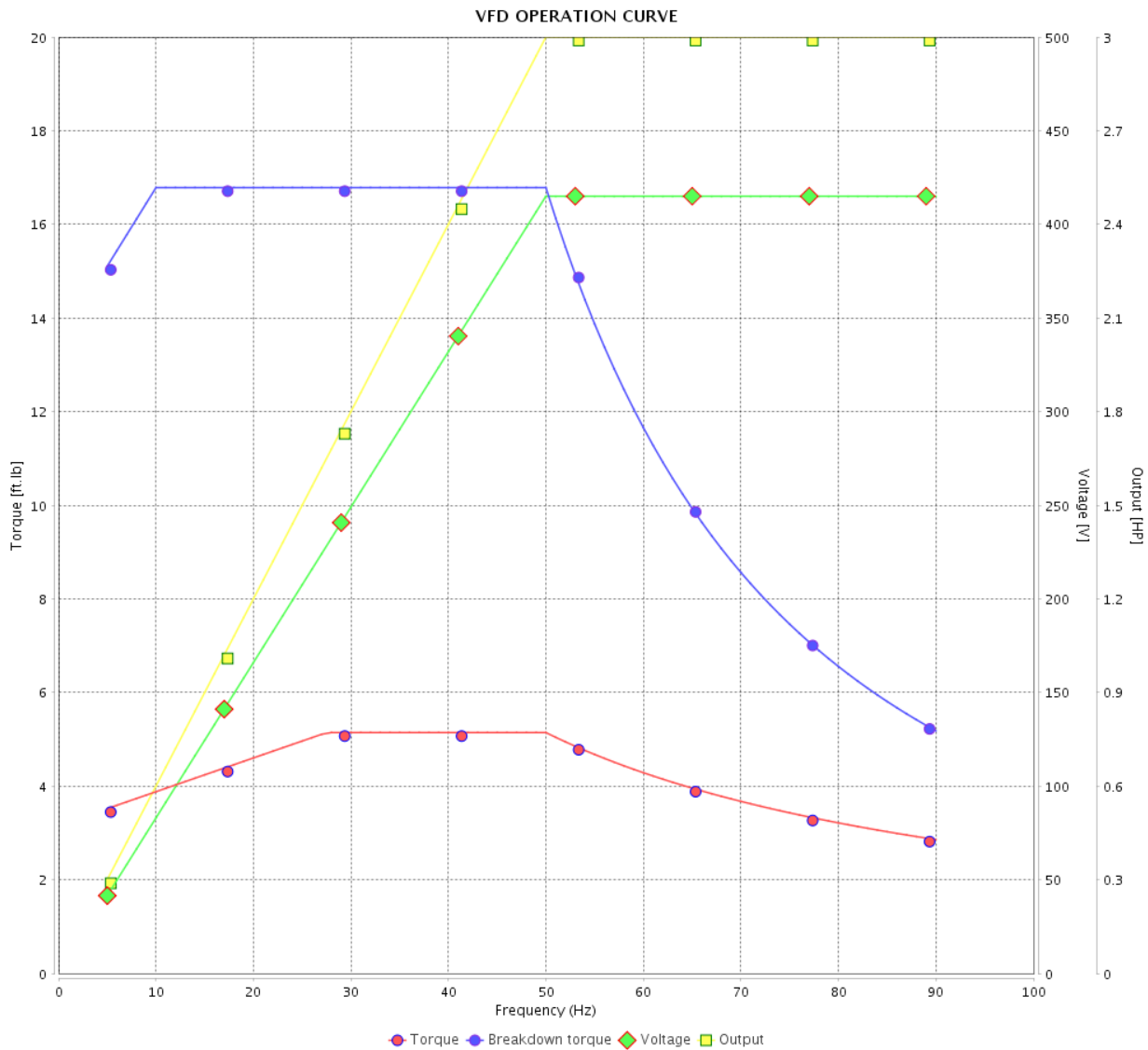


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12445770

Catalog # : 00336ET3E182TC-W22



Performance : 415 V 50 Hz 2P IE3

Rated current : 4.02 A
 LRC : 8.1
 Rated torque : 5.41 ft.lb
 Locked rotor torque : 220 %
 Breakdown torque : 310 %
 Rated speed : 2910 rpm

Moment of inertia (J) : 0.1889 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				
			36 / 36	

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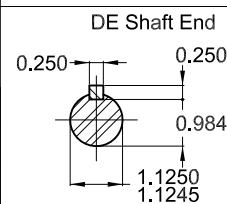
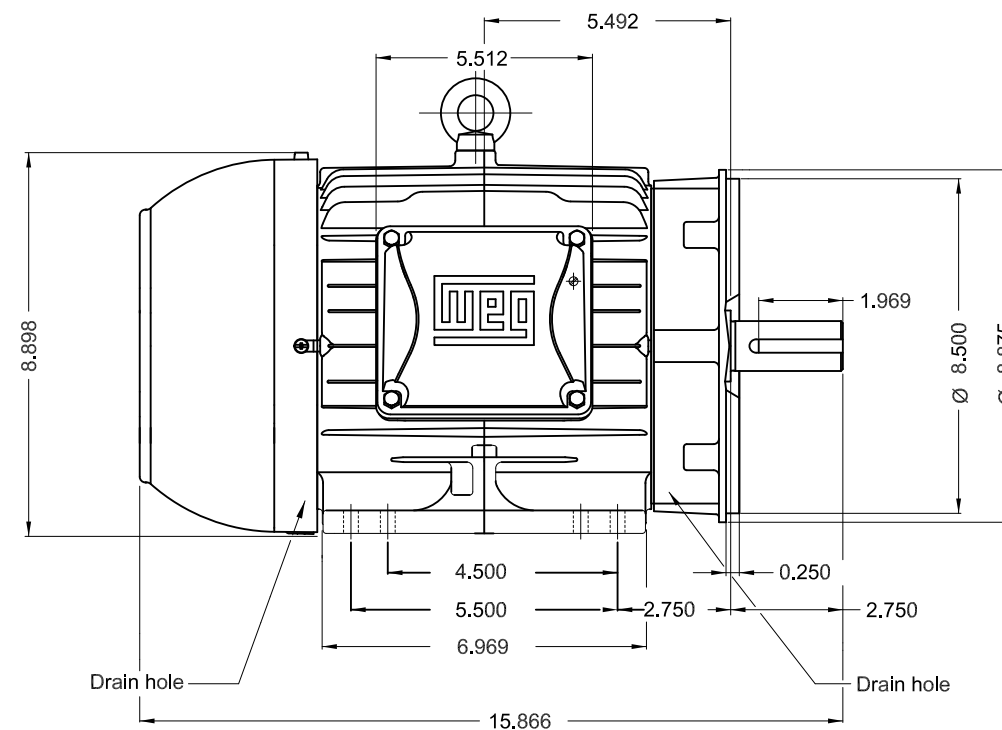
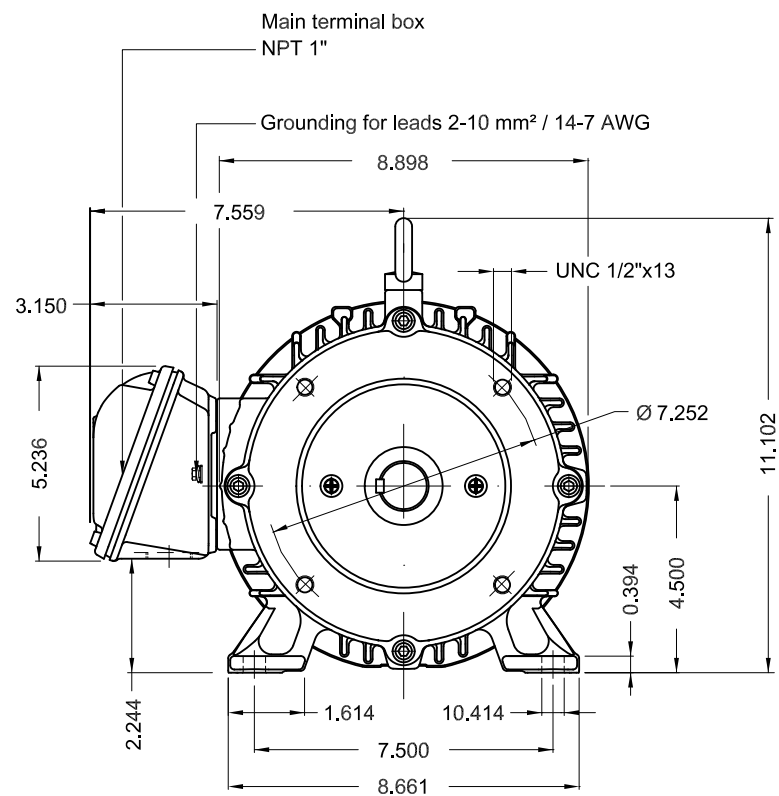
A

B

C

D

E



Bearing cap
Color RAL 5009
Painting plan 207A
Mounting B34R(D)

3 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 182/4TC IP55 TEFC					
RELEASED							
REL DT.	WMO	Jaragua do Sul	Product Engineering	SHEET	1 / 1		

PREVIEW
WDD



Dimensions in inches

XME A3

MADE IN BRAZIL
12445770



W22

MODEL 00336ET3E182TC-W22

Inverter Duty Motor
Severe Duty



For use on 60Hz
Class I, Div 2, Gr A, B, C and D - T3
Class I, Zone 2, IIC - T3
Class II, Div 2, Gr F and G - T5
For use on PWM: Gr. A, B, C, D, F and G,
VT 1000:1, CT 20:1, 1.00SF - T4A



FOR SAFE AREA
Mod. TE1BFOXON
CC029A

PH3 60Hz Fr. 182/4TC 1000m.a.s.l. IP55 TEFC 90lb

V 230/460

A 7.26/3.63

HP 3.0

kW 2.2

SF 1.25

SFA 9.07/4.54

RPM 3515

PF 0.88

AMB 40°C

INS cl. F DT80K

NEMA NOM EFF 86.5%

DUTY CONT.

DES B Code K

USABLE @208V 8.01A SF 1.15 SFA 9.21

3.0HP 2.2kW 50Hz 380V 4.34A 2885RPM SF 1.25 SFA 5.42 EFF 85.5% (IE2)

