

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :								
Product line	: NEMA Premium Efficiency Three-Phase	Product code :	12598690					
		Catalog # :	00336ET3E182JP-W22					
Frame	: 182/4JP	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	: 90.7 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	1.25	1.35	1.40	1.25	1.35	1.40	
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 [%]	250	310	360	390	210	240	260	
Breakdown torque [%]	360	440	500	550	290	330	360	
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	50s (cold) 28s (hot)	54s (cold) 30s (hot)	54s (cold) 30s (hot)	54s (cold) 30s (hot)	54s (cold) 30s (hot)	54s (cold) 30s (hot)	54s (cold) 30s (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%	82.0	79.5	79.1	77.9	84.4	84.4	83.6
	50%	82.5	81.0	80.6	79.7	84.0	84.0	84.0
	75%	86.5	84.5	84.5	84.1	86.5	86.5	86.5
	100%	86.5	85.8	85.8	85.9	85.5	85.5	86.5
Power Factor	25%	0.50	0.44	0.41	0.39	0.56	0.52	0.50
	50%	0.75	0.68	0.65	0.63	0.80	0.77	0.75
	75%	0.84	0.79	0.77	0.75	0.87	0.86	0.84
	100%	0.88	0.86	0.84	0.82	0.90	0.89	0.88
Bearing type	: Drive end : 6307 ZZ	Non drive end : 6206 ZZ	Foundation loads					
Sealing	: V'Ring	V'Ring	Max. traction	: 79 lb				
Lubrication interval	: -	-	Max. compression	: 170 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



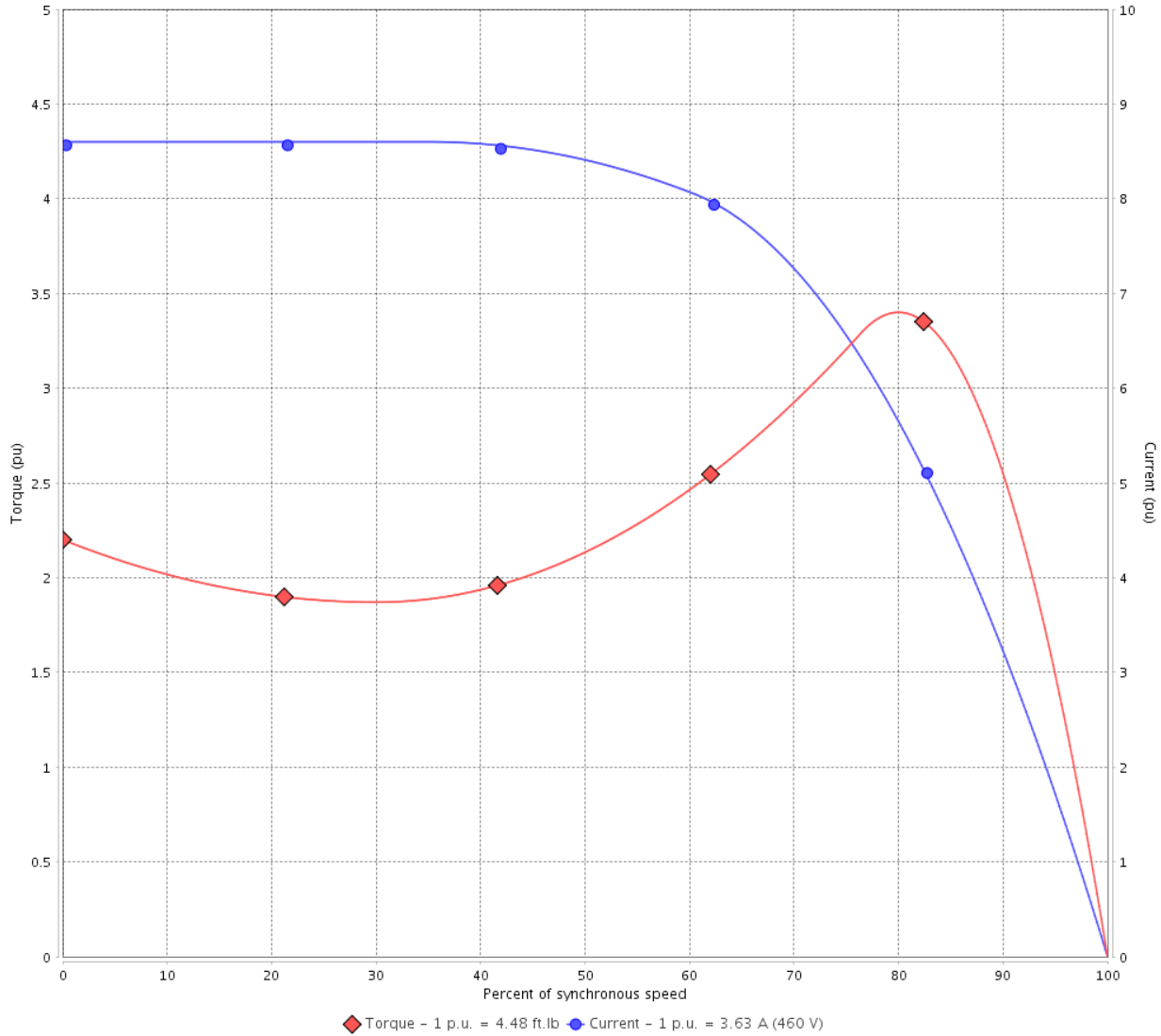
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12598690

Catalog # : 00336ET3E182JP-W22

TORQUE AND CURRENT VS SPEED CURVE



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	: 250 %	Service factor	: 1.25
Breakdown torque	: 360 %	Temperature rise	: 80 K
Rated speed	: 3515 rpm	Design	: B

Locked rotor time : 50s (cold) 28s (hot)

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TORQUE AND CURRENT VS SPEED CURVE



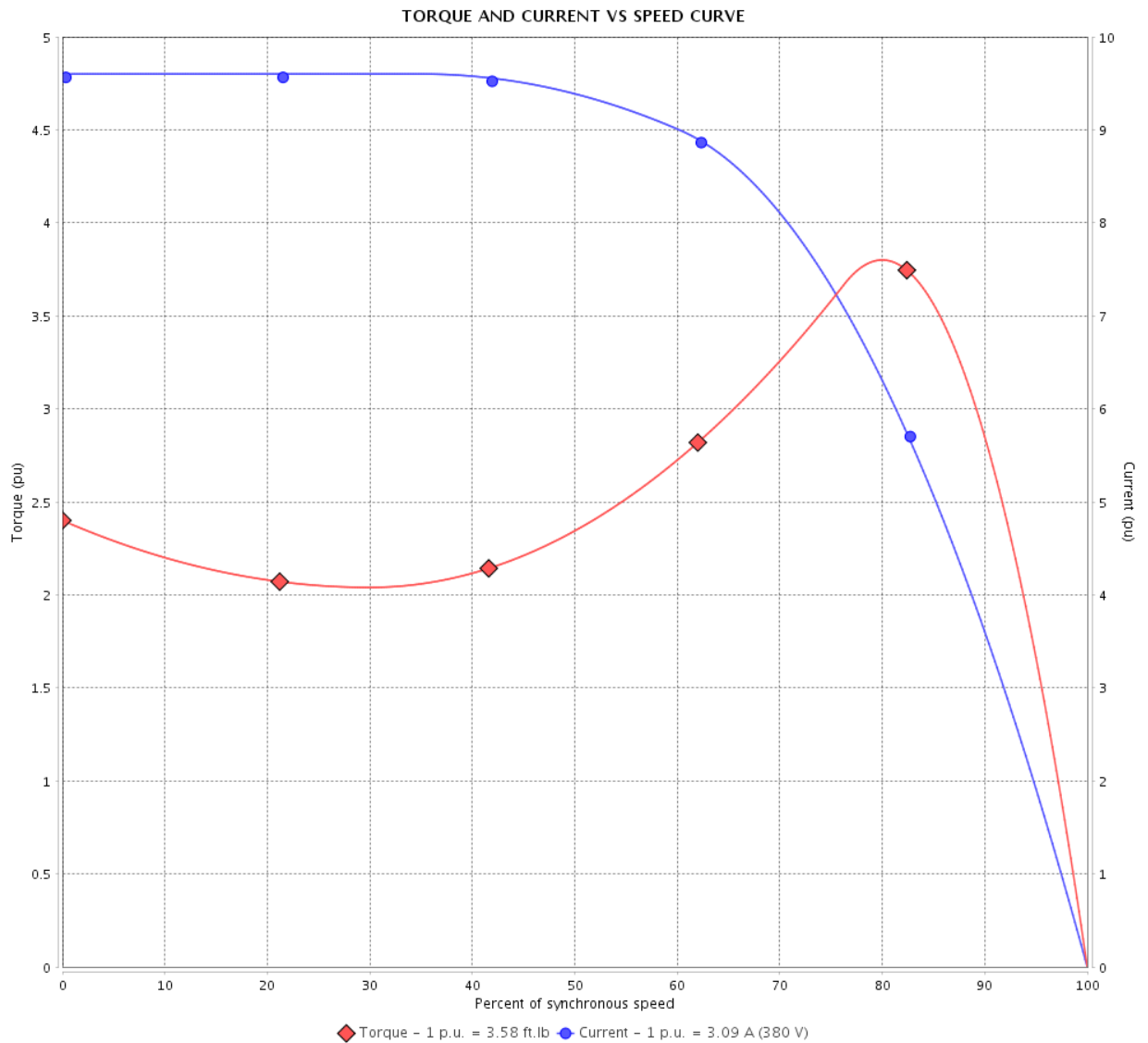
Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12598690

Catalog # : 00336ET3E182JP-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 : 310 %
 Breakdown torque : 440 %
 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

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

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



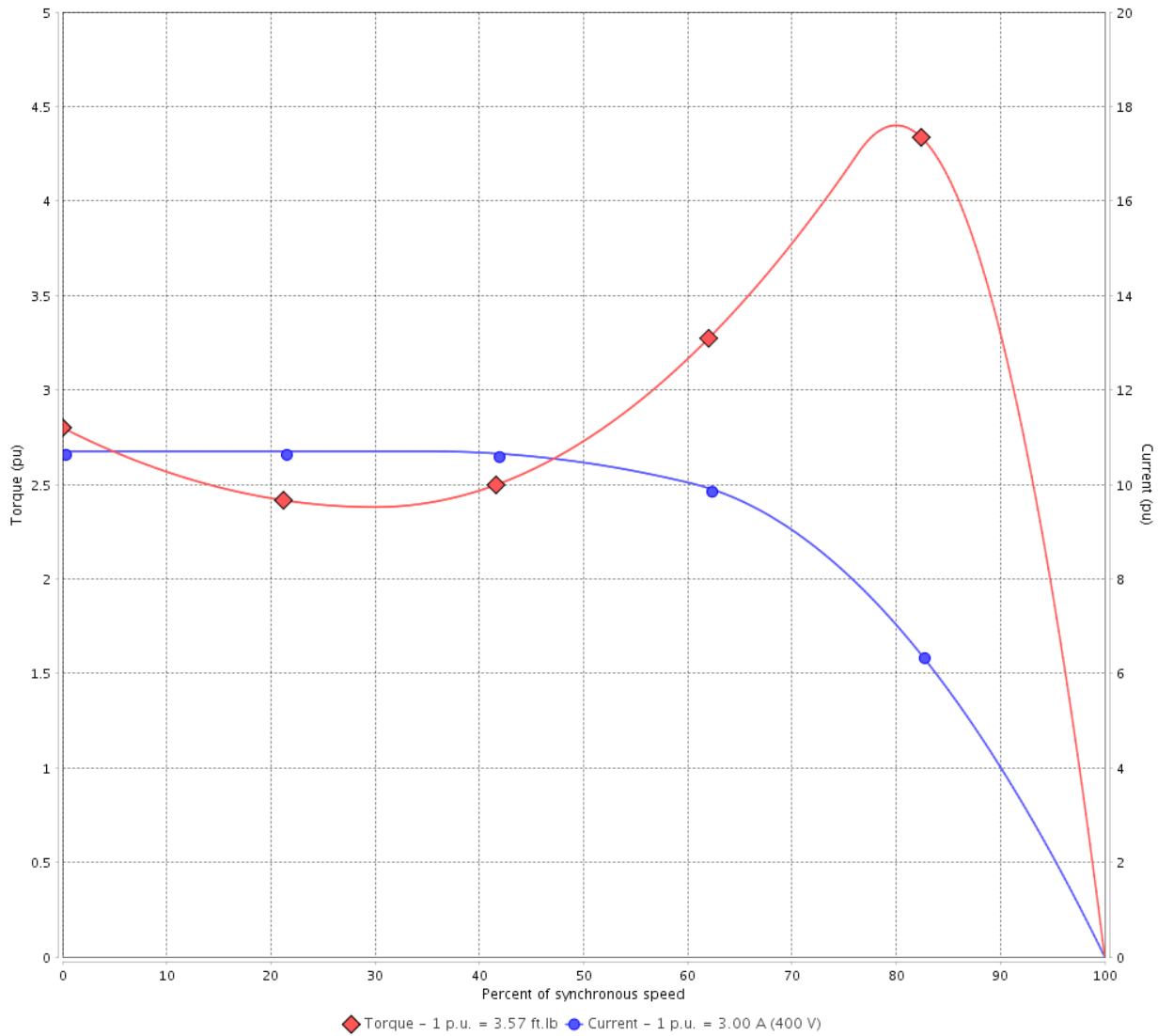
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12598690

Catalog # : 00336ET3E182JP-W22

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	: 360 %	Service factor	: 1.25
Breakdown torque	: 500 %	Temperature rise	: 80 K
Rated speed	: 2940 rpm	Design	: B

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

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TORQUE AND CURRENT VS SPEED CURVE



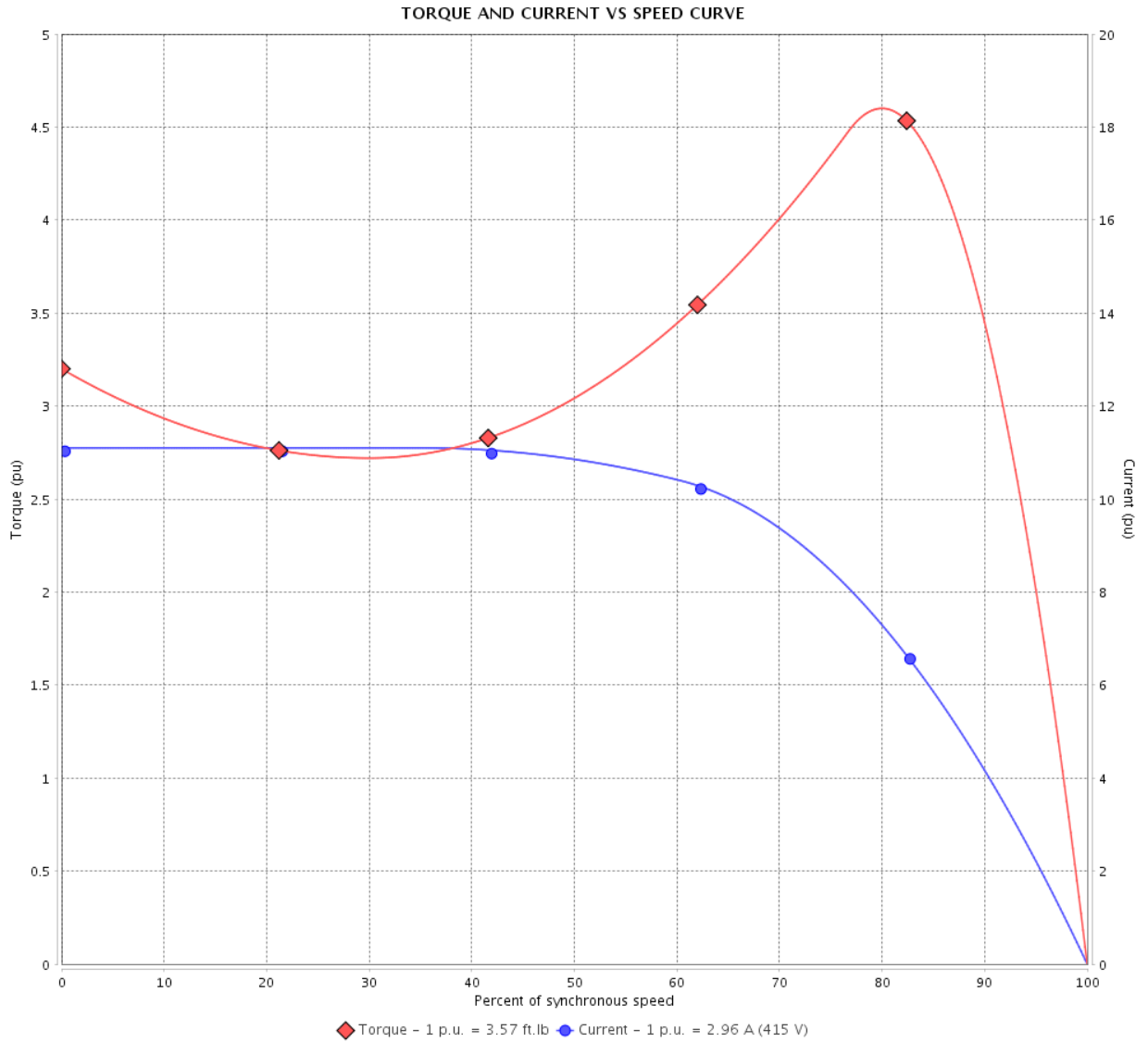
Three Phase Induction Motor - Squirrel Cage

Customer :

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Product code : 12598690

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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 : 390 %
 Breakdown torque : 550 %
 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 : 54s (cold) 30s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



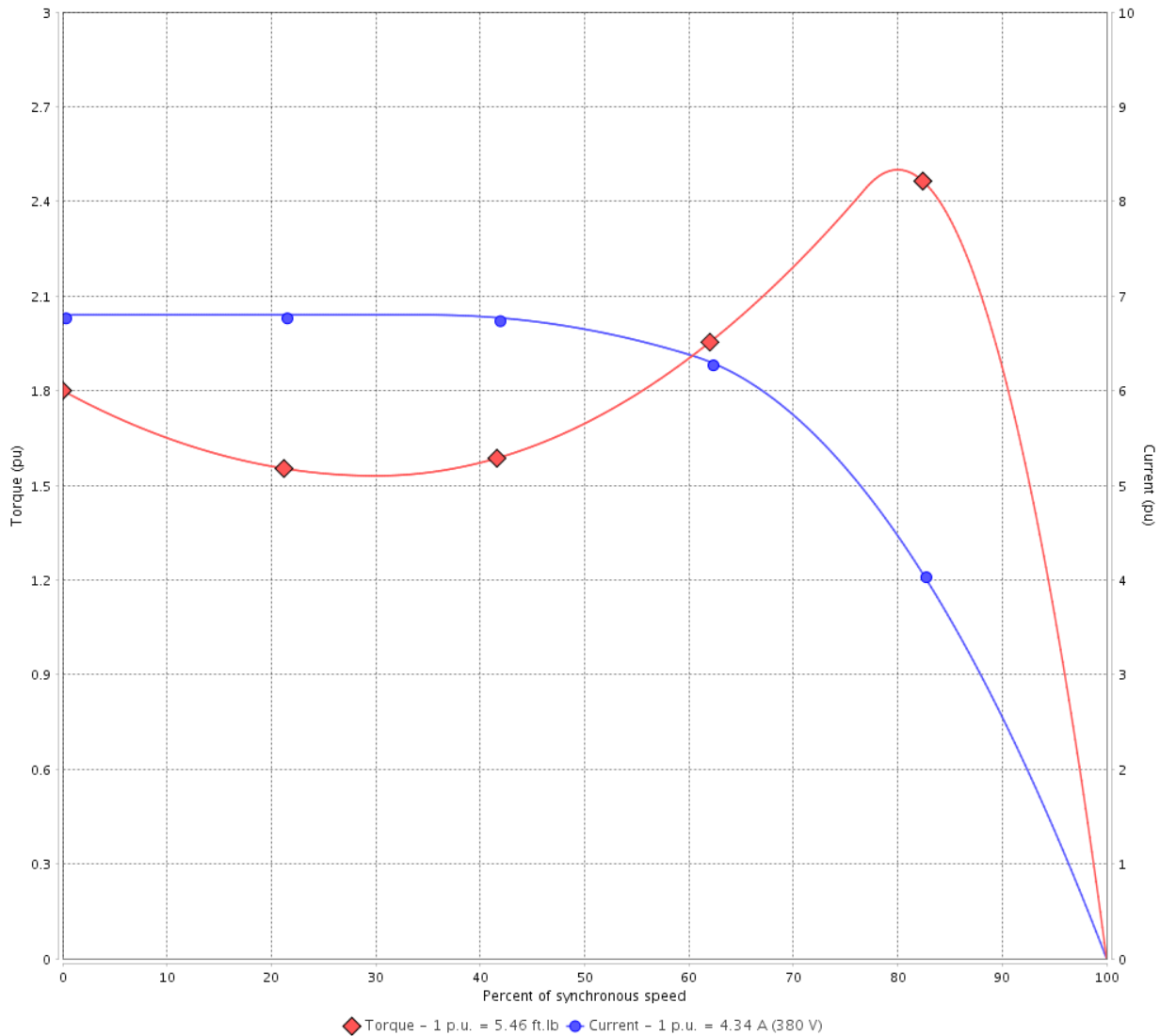
Customer :

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Catalog # : 00336ET3E182JP-W22

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	: 210 %	Service factor	: 1.25
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 2885 rpm	Design	: B

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

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TORQUE AND CURRENT VS SPEED CURVE



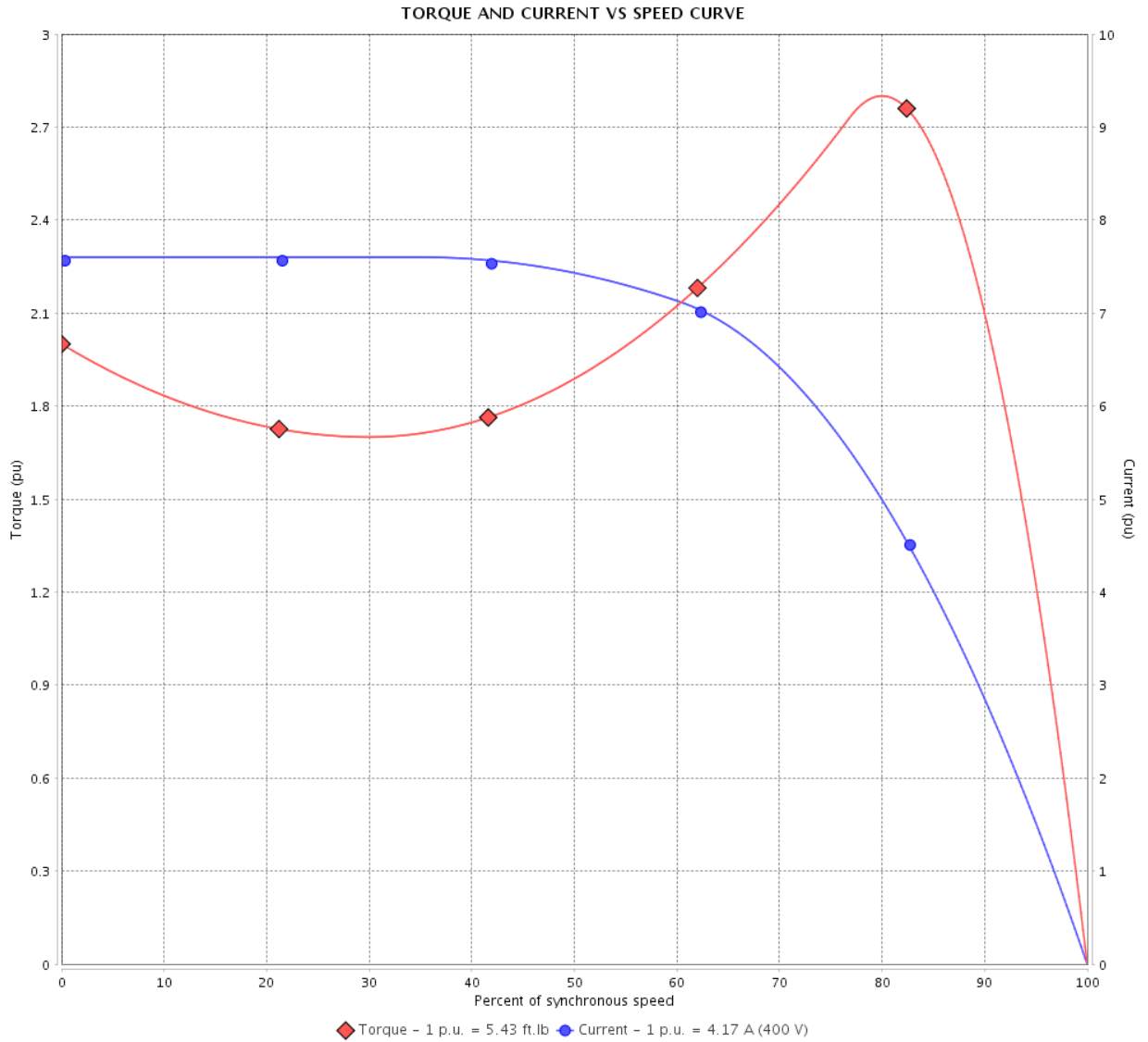
Three Phase Induction Motor - Squirrel Cage

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Product code : 12598690

Catalog # : 00336ET3E182JP-W22



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	: 240 %	Service factor	: 1.25
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 2900 rpm	Design	: B

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

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TORQUE AND CURRENT VS SPEED CURVE

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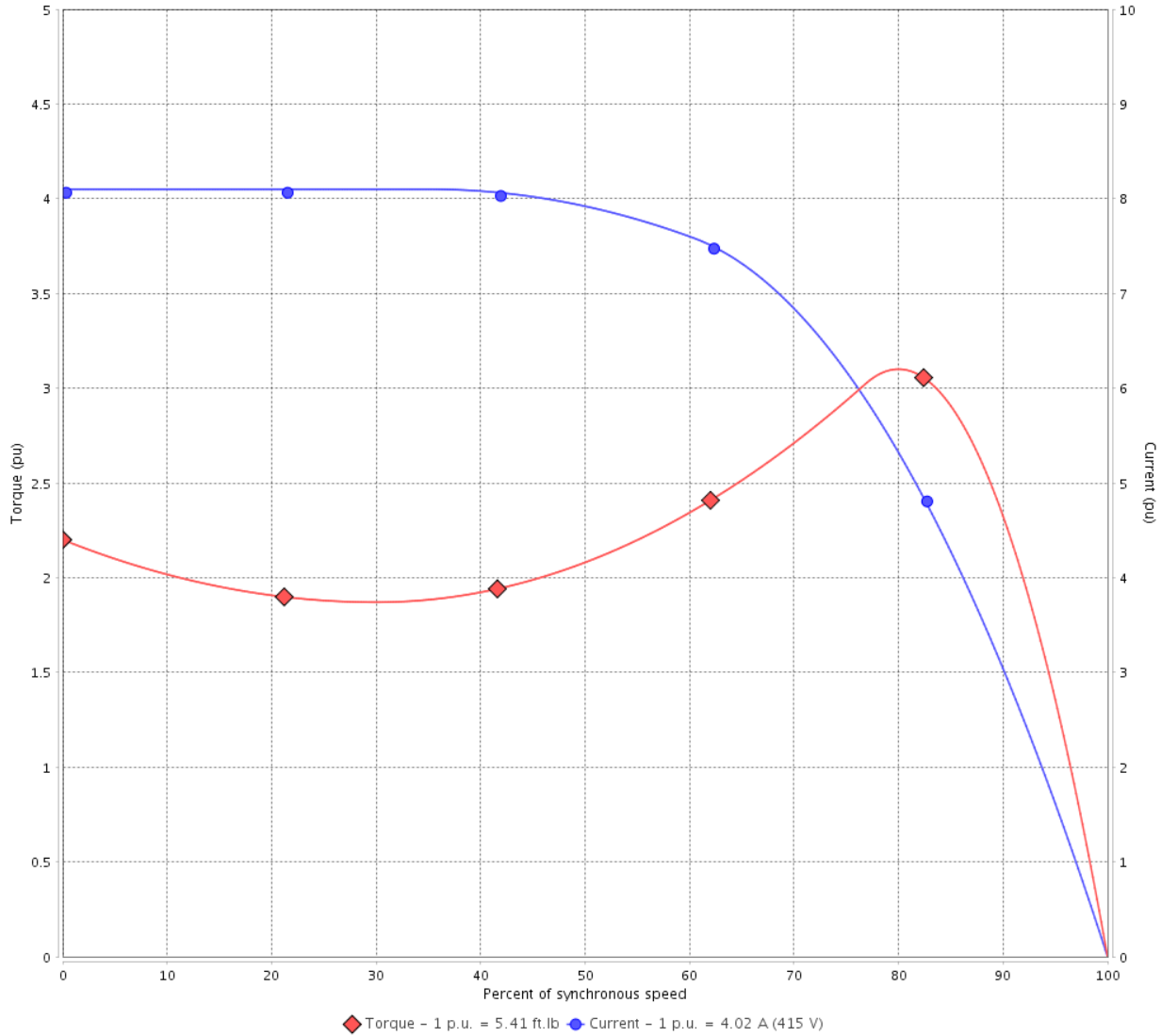
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12598690

Catalog # : 00336ET3E182JP-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	: 260 %	Service factor	: 1.25
Breakdown torque	: 360 %	Temperature rise	: 80 K
Rated speed	: 2910 rpm	Design	: B

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

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Three Phase Induction Motor - Squirrel Cage

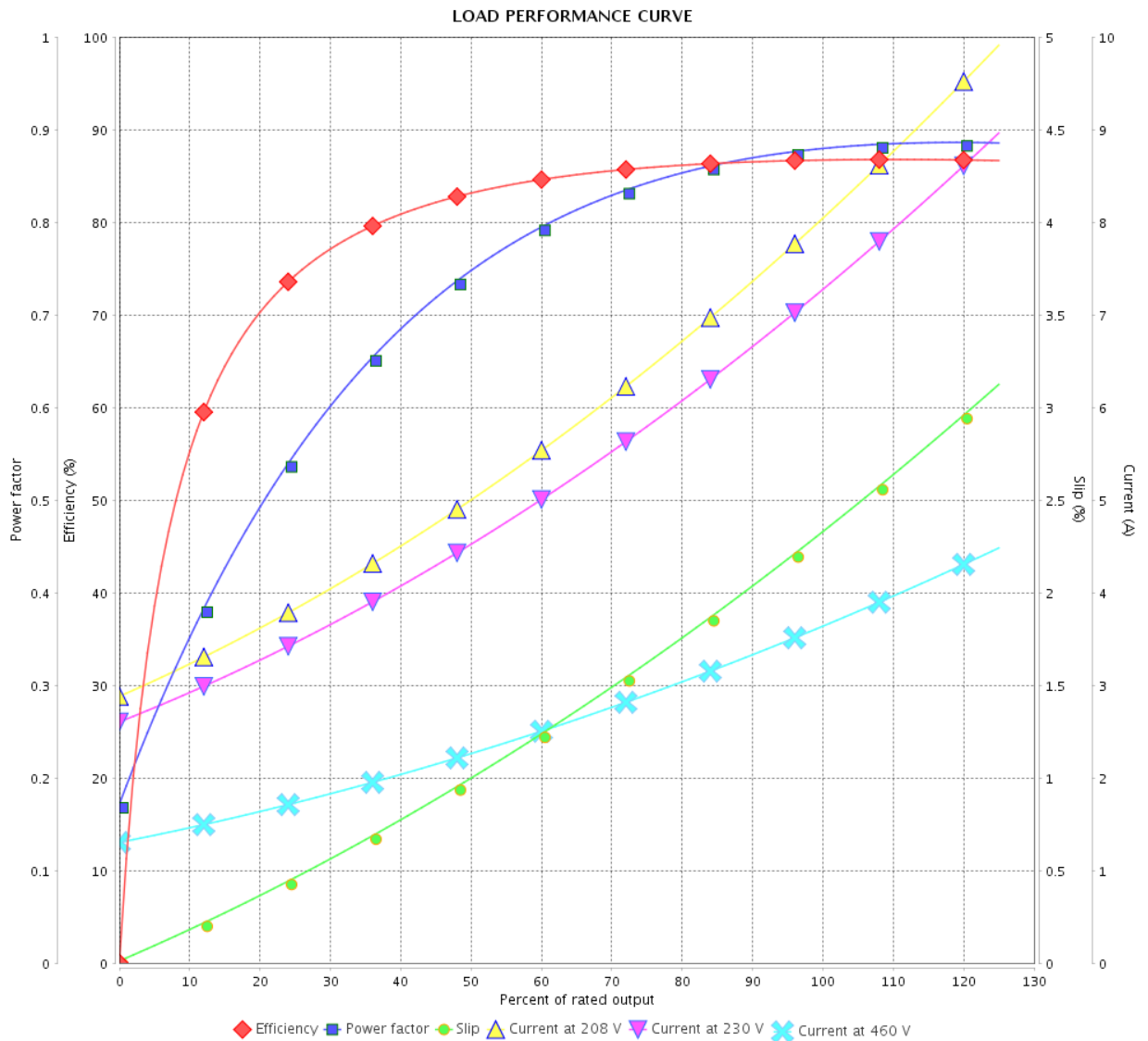


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Performance : 230/460 V 60 Hz 2P

Rated current : 7.26/3.63 A
 LRC : 8.6
 Rated torque : 4.48 ft.lb
 Locked rotor torque : 250 %
 Breakdown torque : 360 %
 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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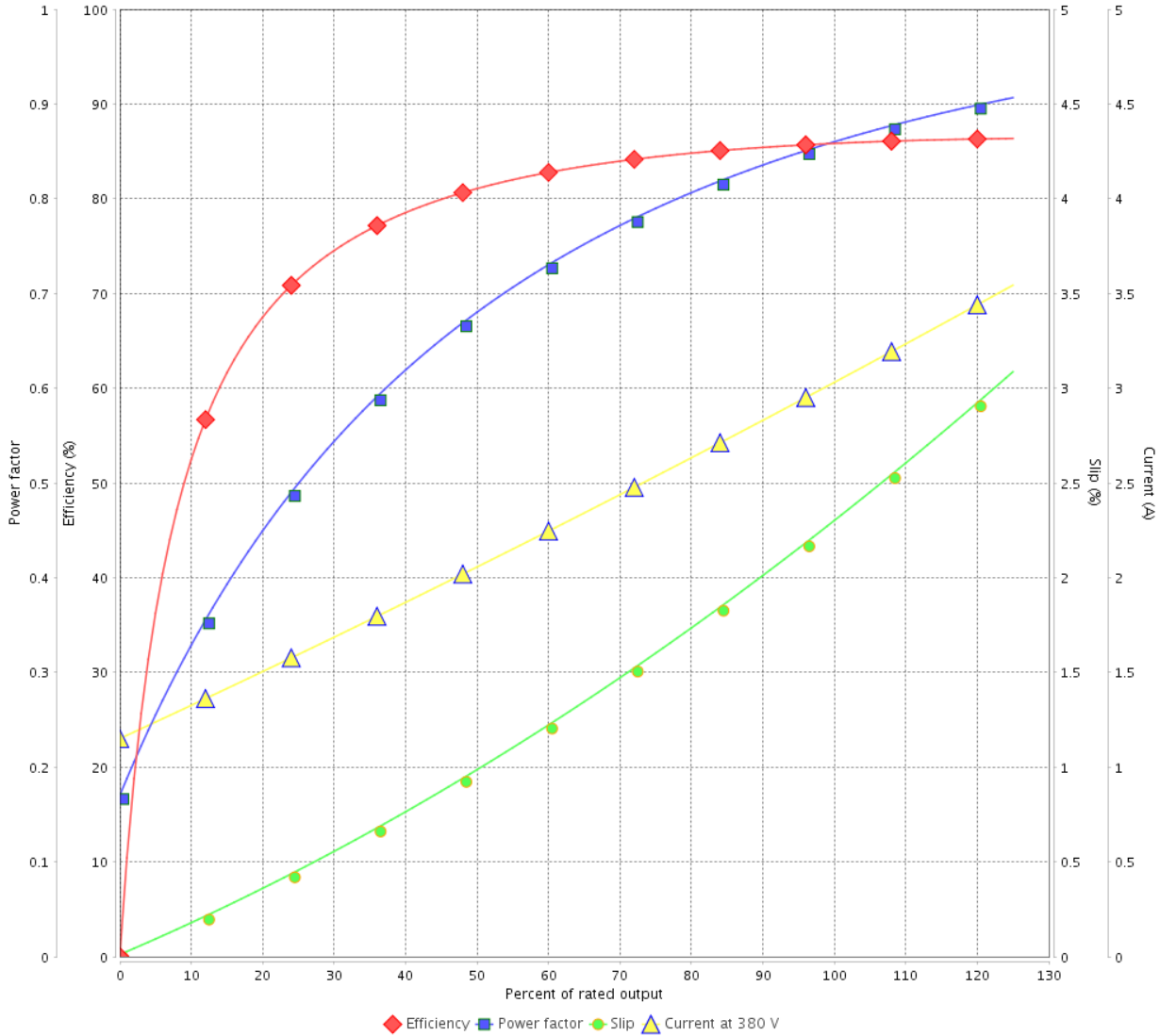
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Performance : 380 V 50 Hz 2P IE3

Rated current : 3.09 A
 LRC : 9.6
 Rated torque : 3.58 ft.lb
 Locked rotor torque : 310 %
 Breakdown torque : 440 %
 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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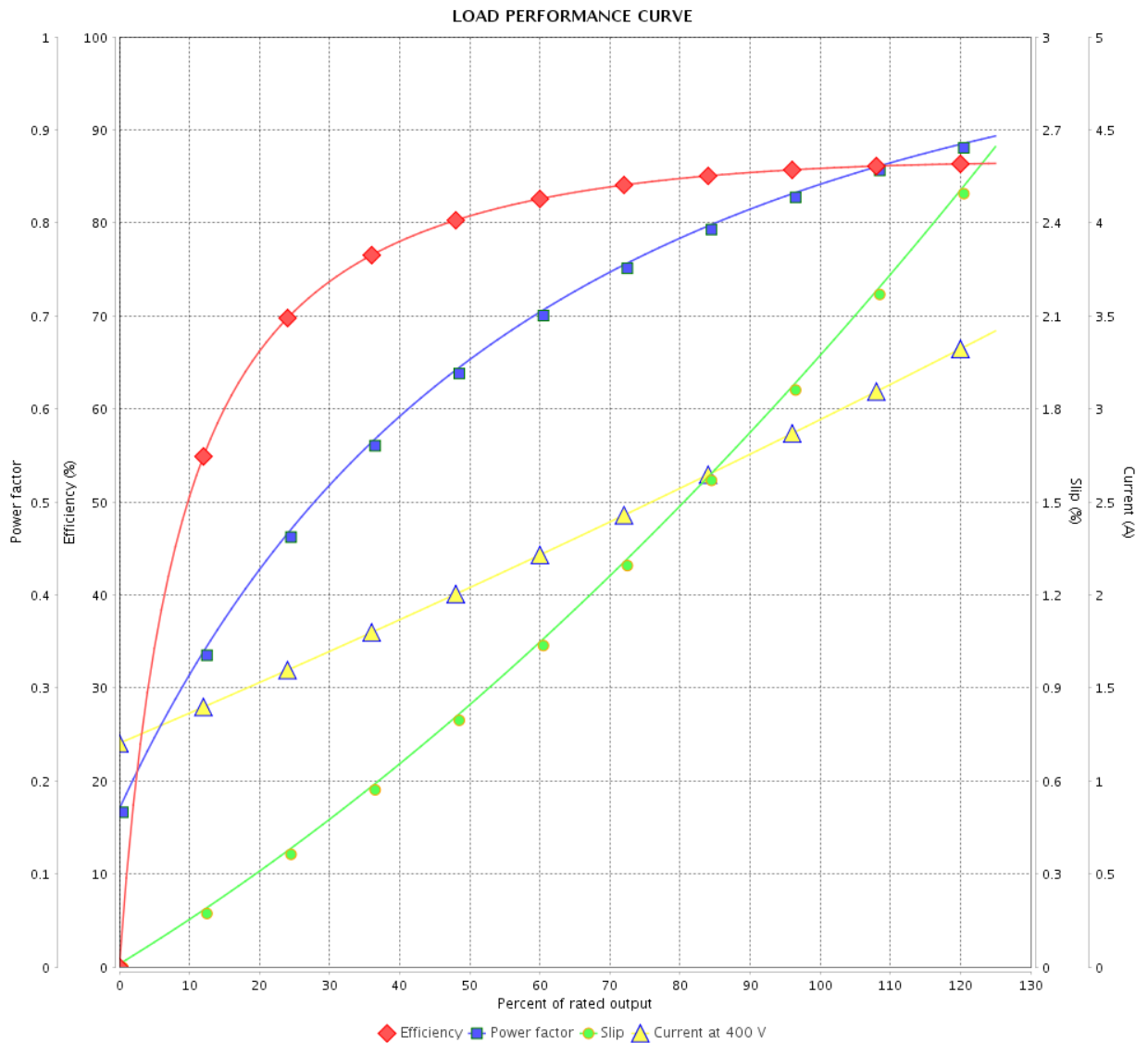


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Performance : 400 V 50 Hz 2P IE3

Rated current : 3.00 A
 LRC : 10.7
 Rated torque : 3.57 ft.lb
 Locked rotor torque : 360 %
 Breakdown torque : 500 %
 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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Three Phase Induction Motor - Squirrel Cage



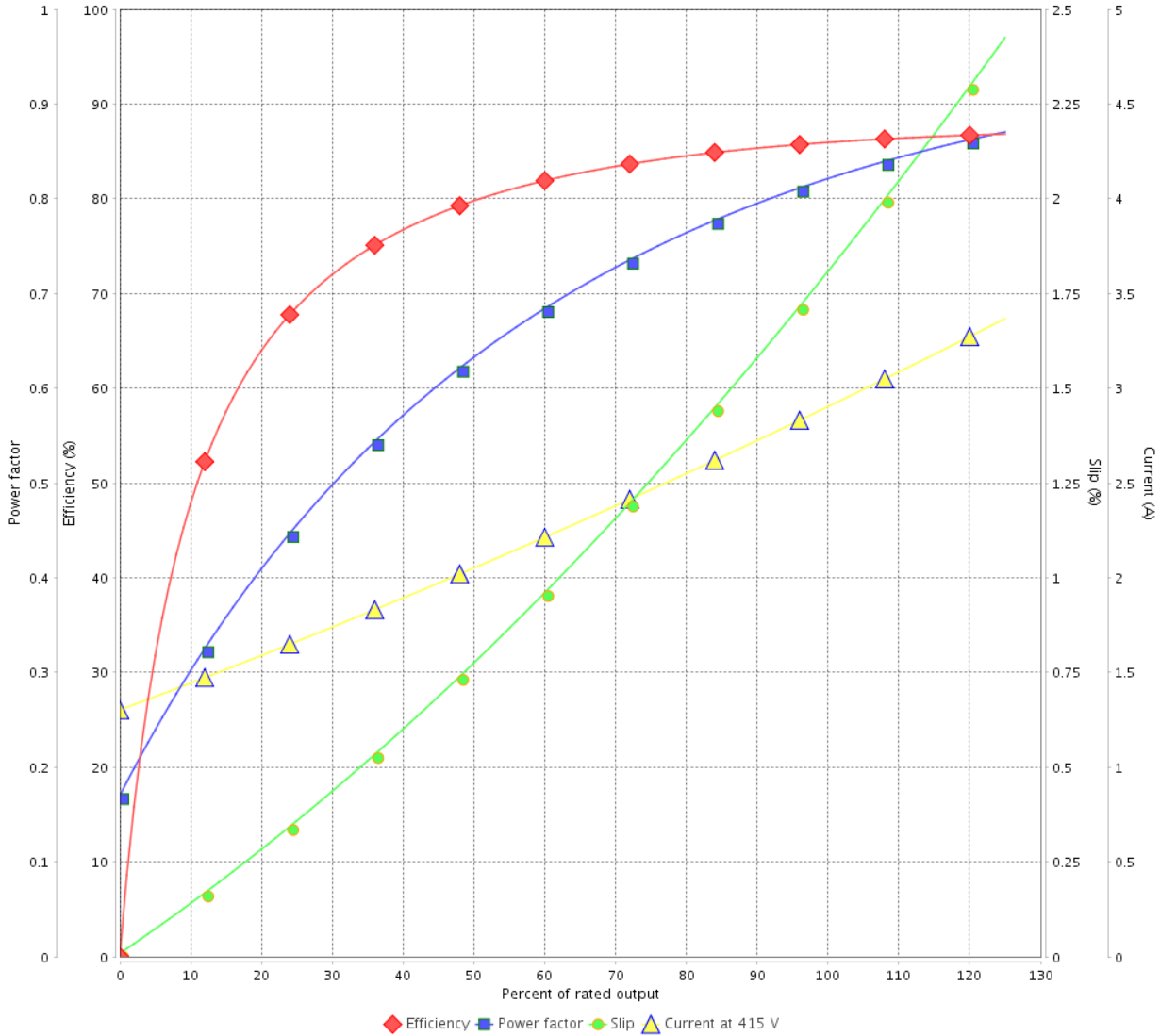
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Performance : 415 V 50 Hz 2P IE3

Rated current : 2.96 A
 LRC : 11.1
 Rated torque : 3.57 ft.lb
 Locked rotor torque : 390 %
 Breakdown torque : 550 %
 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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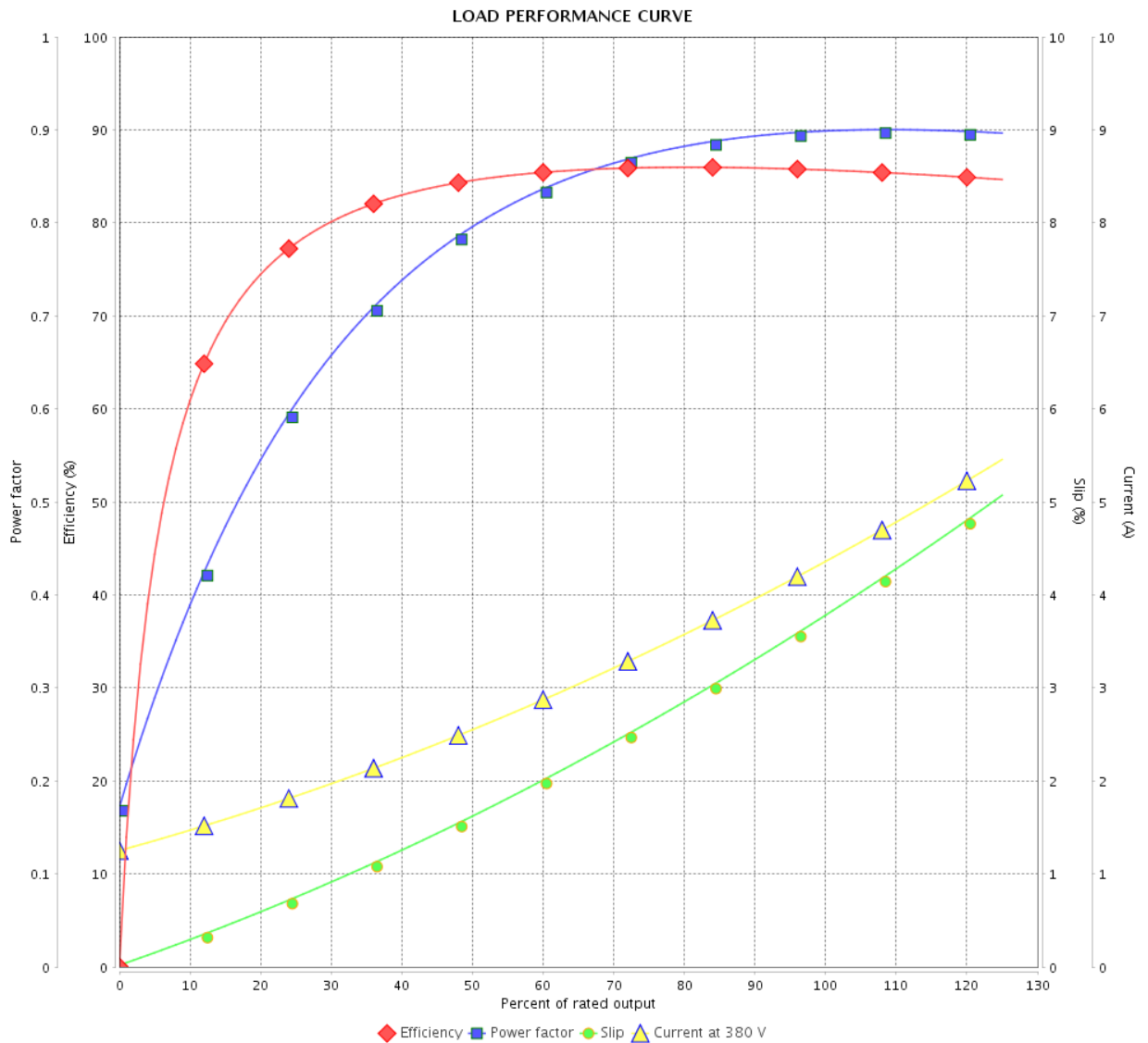


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Product line : NEMA Premium Efficiency Three-Phase

Product code : 12598690

Catalog # : 00336ET3E182JP-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 : 210 %
 Breakdown torque : 290 %
 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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Three Phase Induction Motor - Squirrel Cage



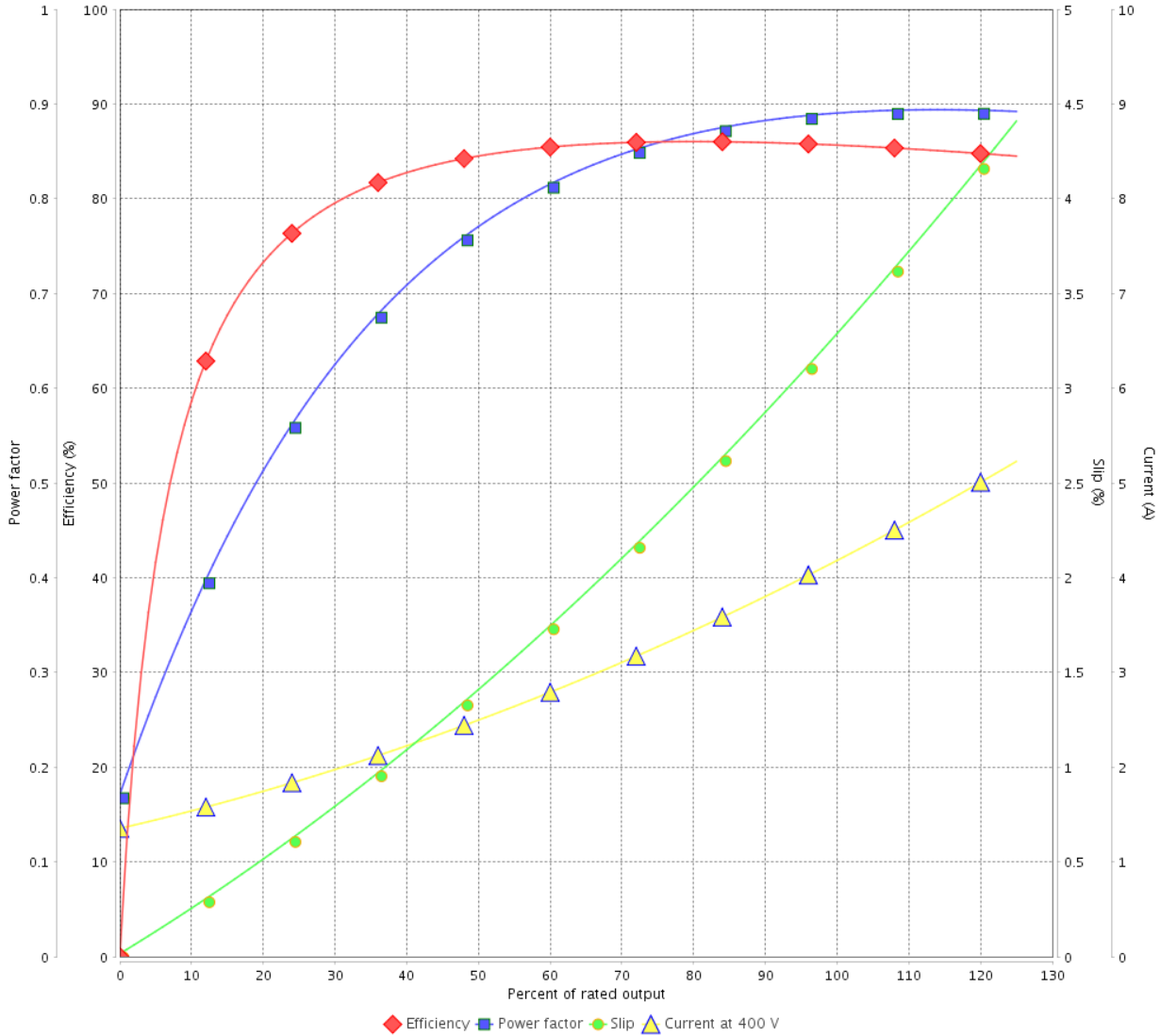
Customer :

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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 : 240 %
 Breakdown torque : 330 %
 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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THERMAL LIMIT CURVE



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase
Product code : 12598690
Catalog # : 00336ET3E182JP-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	: 250 %	Service factor	: 1.25
Breakdown torque	: 360 %	Temperature rise	: 80 K
Rated speed	: 3515 rpm	Design	: B

Heating constant

Cooling constant

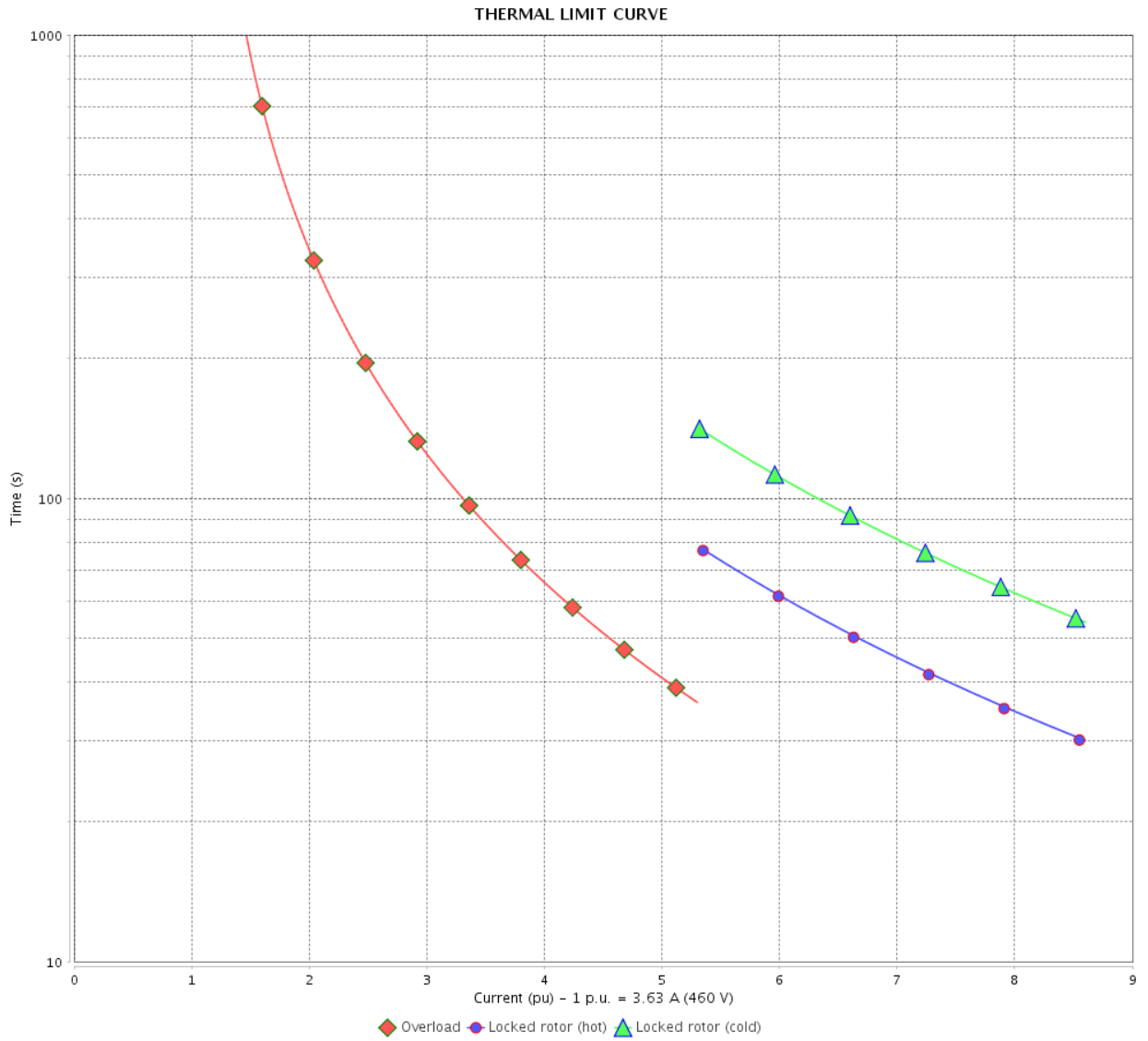
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Three Phase Induction Motor - Squirrel Cage



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Three Phase Induction Motor - Squirrel Cage

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Product code : 12598690
Catalog # : 00336ET3E182JP-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	: 310 %	Service factor	: 1.25
Breakdown torque	: 440 %	Temperature rise	: 80 K
Rated speed	: 2930 rpm	Design	: B

Heating constant

Cooling constant

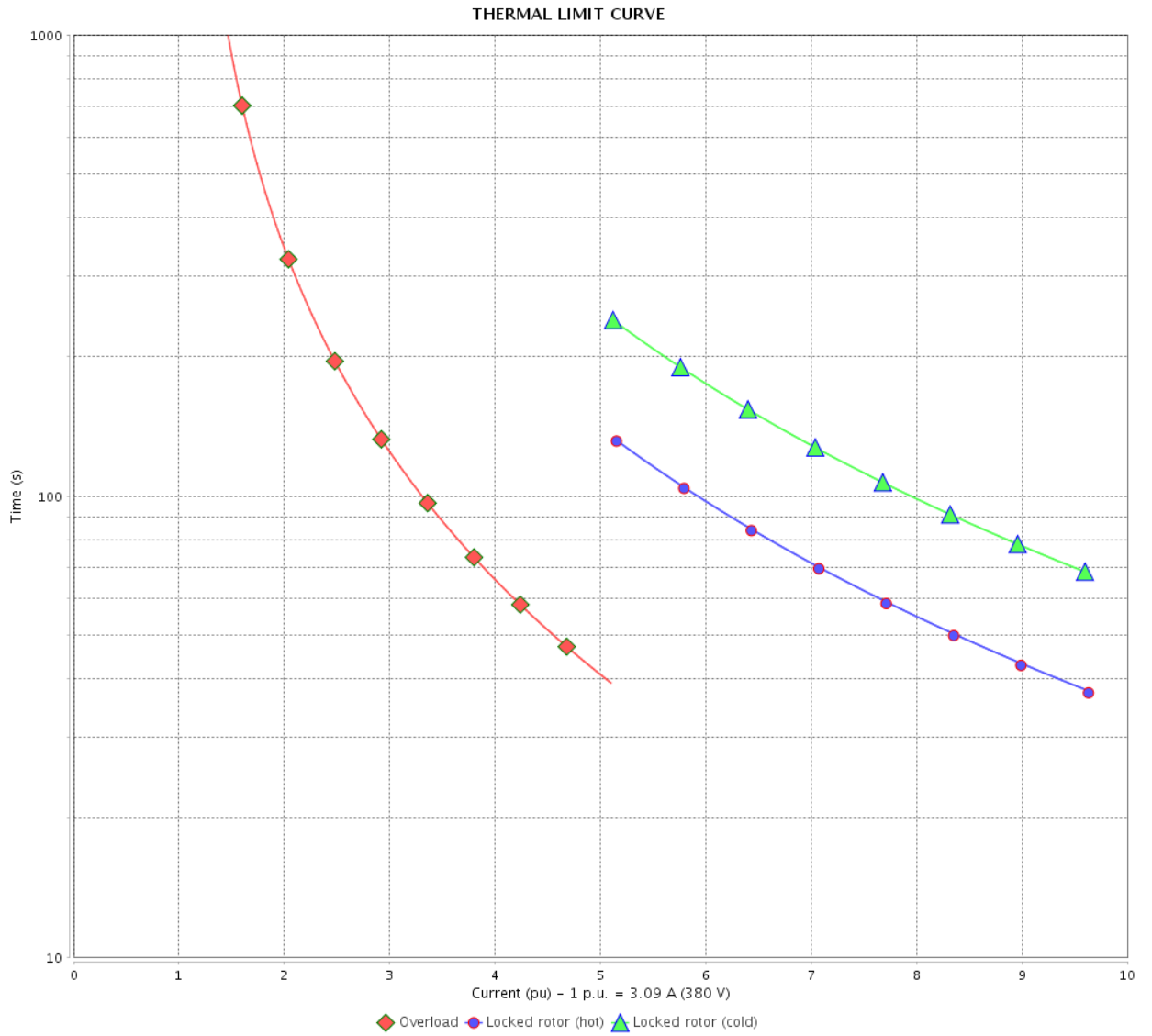
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THERMAL LIMIT CURVE



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase
Product code : 12598690
Catalog # : 00336ET3E182JP-W22

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	: 360 %	Service factor	: 1.25
Breakdown torque	: 500 %	Temperature rise	: 80 K
Rated speed	: 2940 rpm	Design	: B

Heating constant

Cooling constant

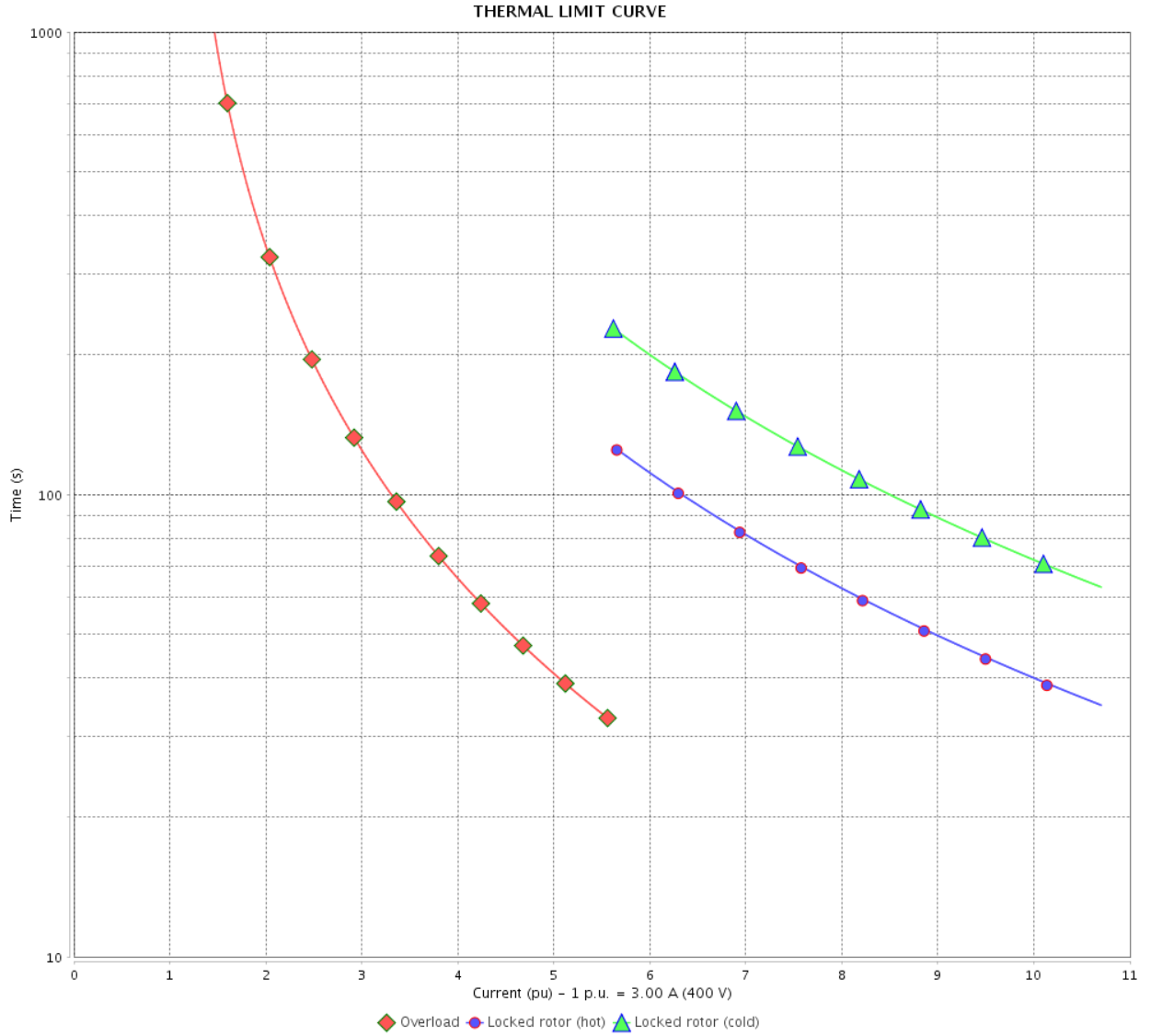
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



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Performance : 415 V 50 Hz 2P IE3

Rated current	: 2.96 A	Moment of inertia (J)	: 0.1889 sq.ft.lb
LRC	: 11.1	Duty cycle	: Cont.(S1)
Rated torque	: 3.57 ft.lb	Insulation class	: F
Locked rotor torque	: 390 %	Service factor	: 1.25
Breakdown torque	: 550 %	Temperature rise	: 80 K
Rated speed	: 2945 rpm	Design	: B

Heating constant

Cooling constant

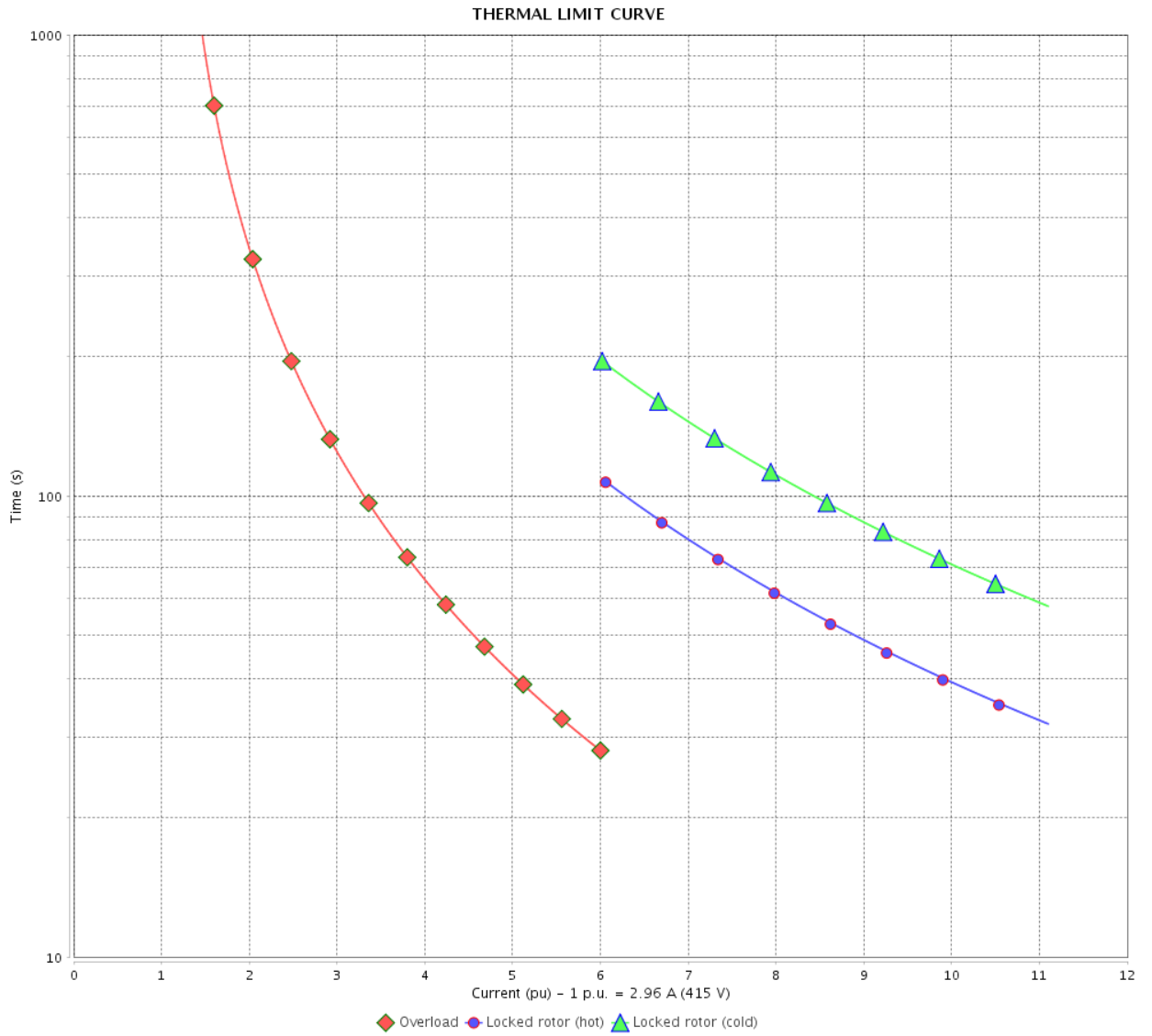
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THERMAL LIMIT CURVE

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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	: 210 %	Service factor	: 1.25
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 2885 rpm	Design	: B

Heating constant

Cooling constant

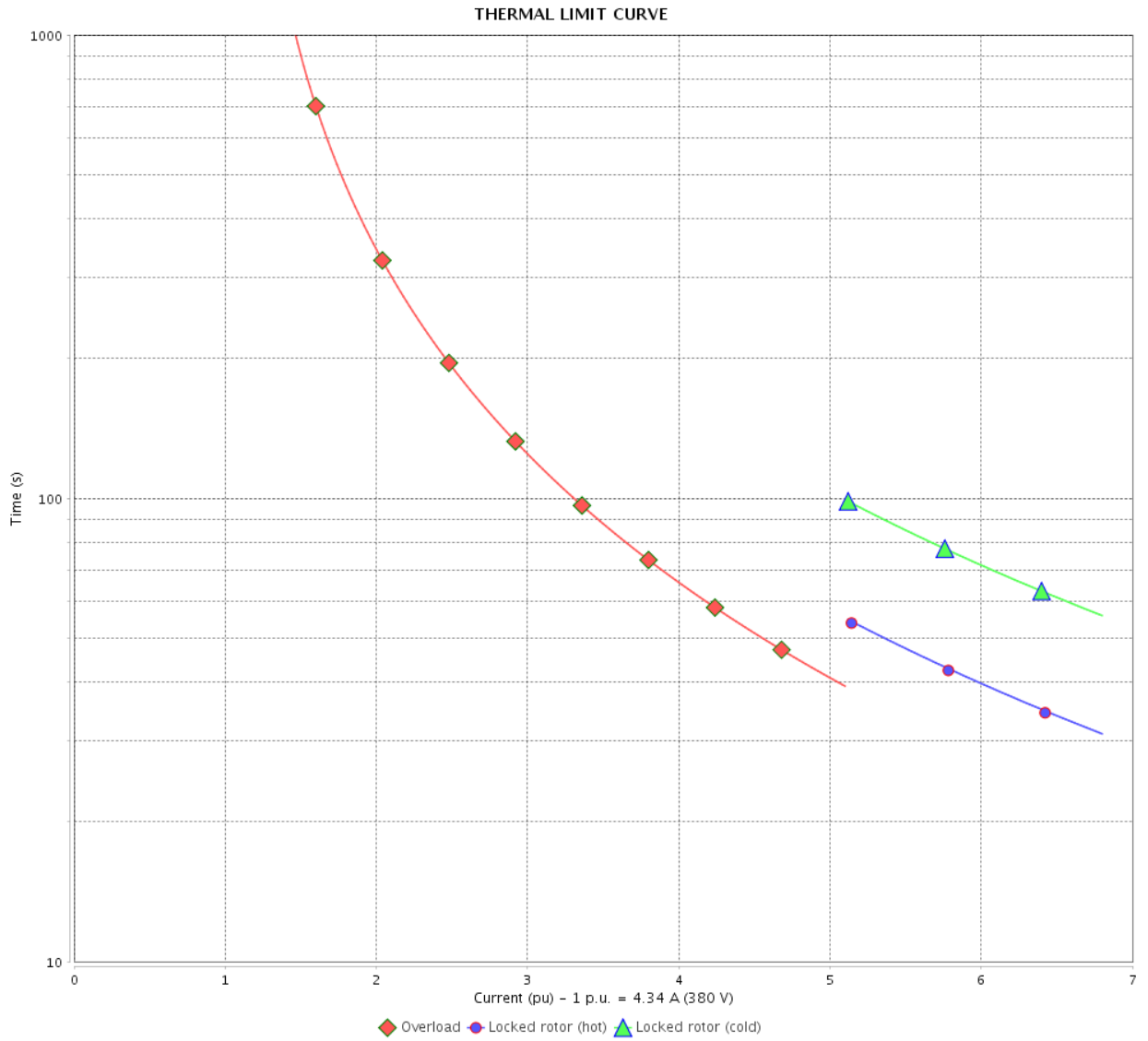
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THERMAL LIMIT CURVE

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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	: 240 %	Service factor	: 1.25
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 2900 rpm	Design	: B

Heating constant

Cooling constant

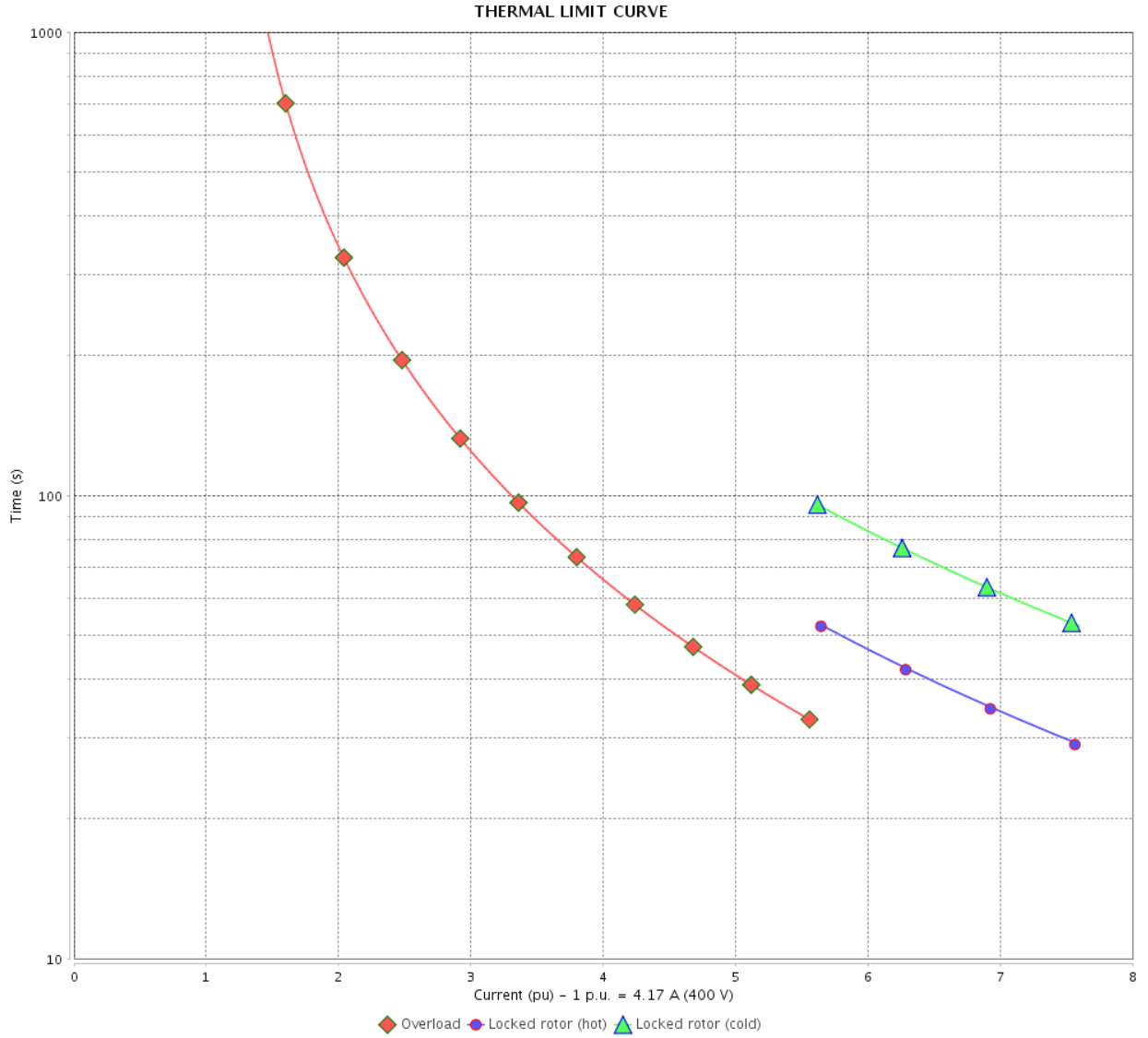
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THERMAL LIMIT CURVE

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Catalog # : 00336ET3E182JP-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	: 260 %	Service factor	: 1.25
Breakdown torque	: 360 %	Temperature rise	: 80 K
Rated speed	: 2910 rpm	Design	: B

Heating constant

Cooling constant

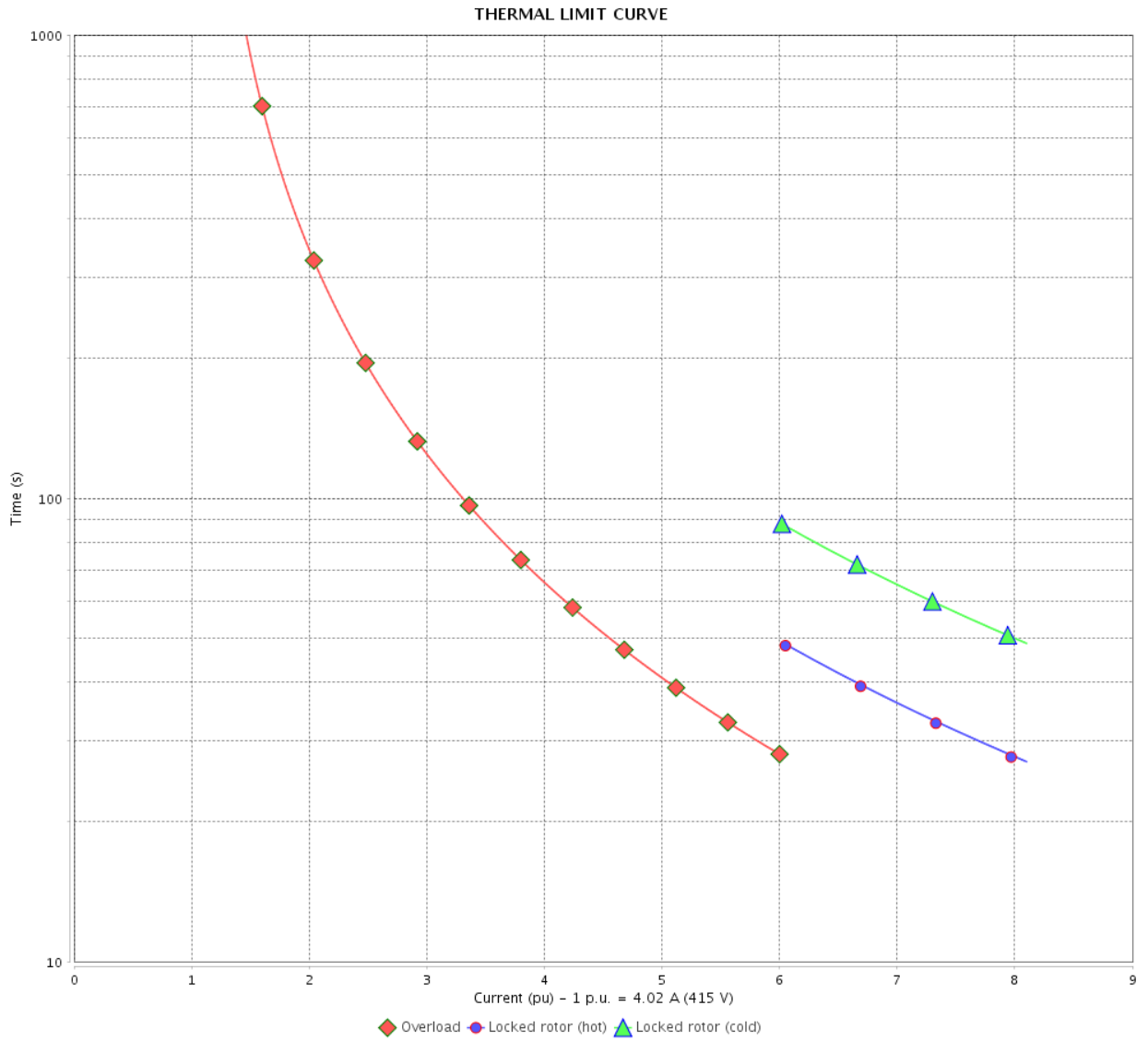
Rev.	Changes Summary	Performed	Checked	Date
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Checked by			Page	Revision
Date	13/04/2022		28 / 36	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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Performed by		Page 29 / 36		Revision
Checked by				
Date				

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

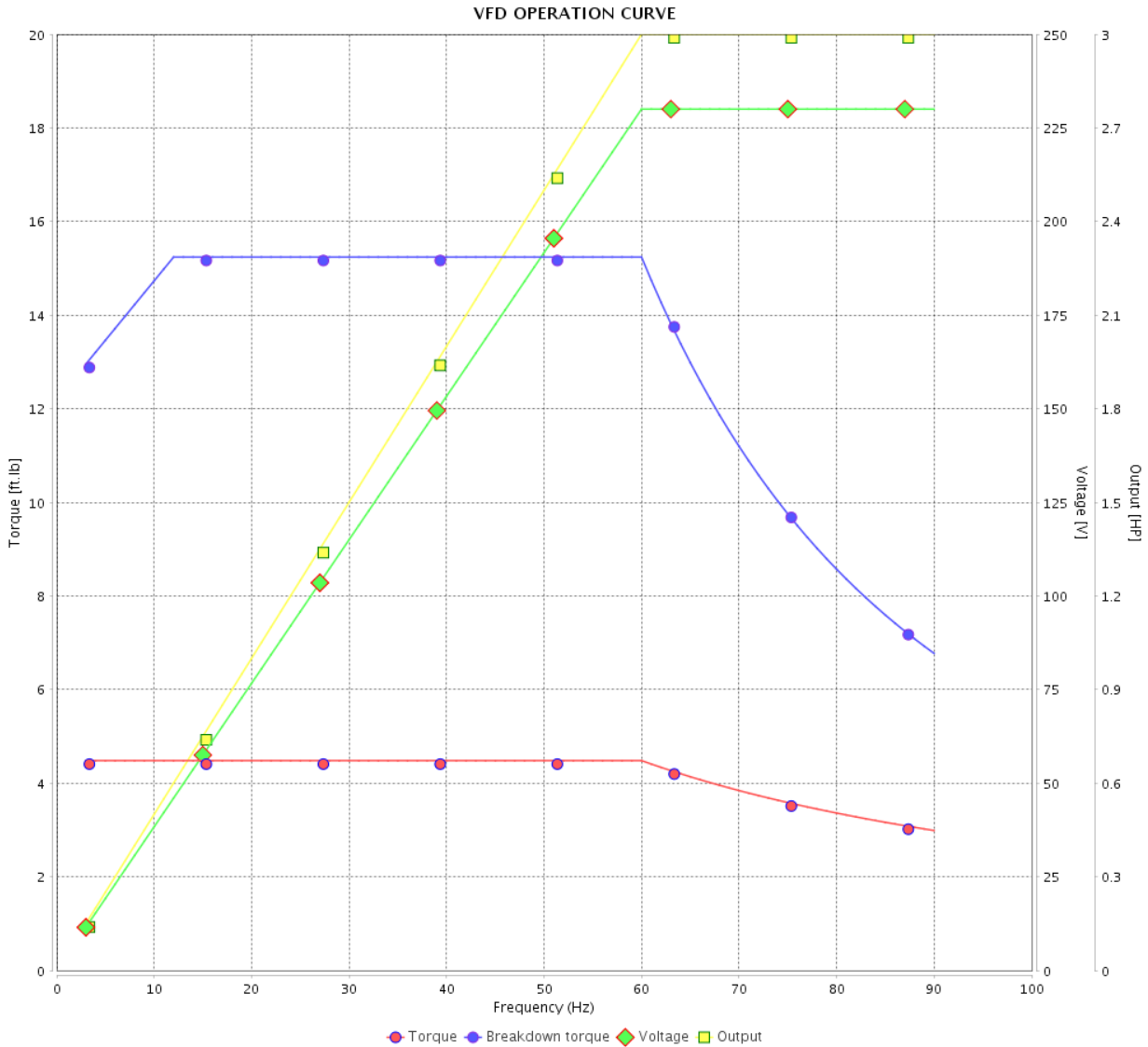


Customer : _____

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12598690

Catalog # : 00336ET3E182JP-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 : 250 %
 Breakdown torque : 360 %
 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

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

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

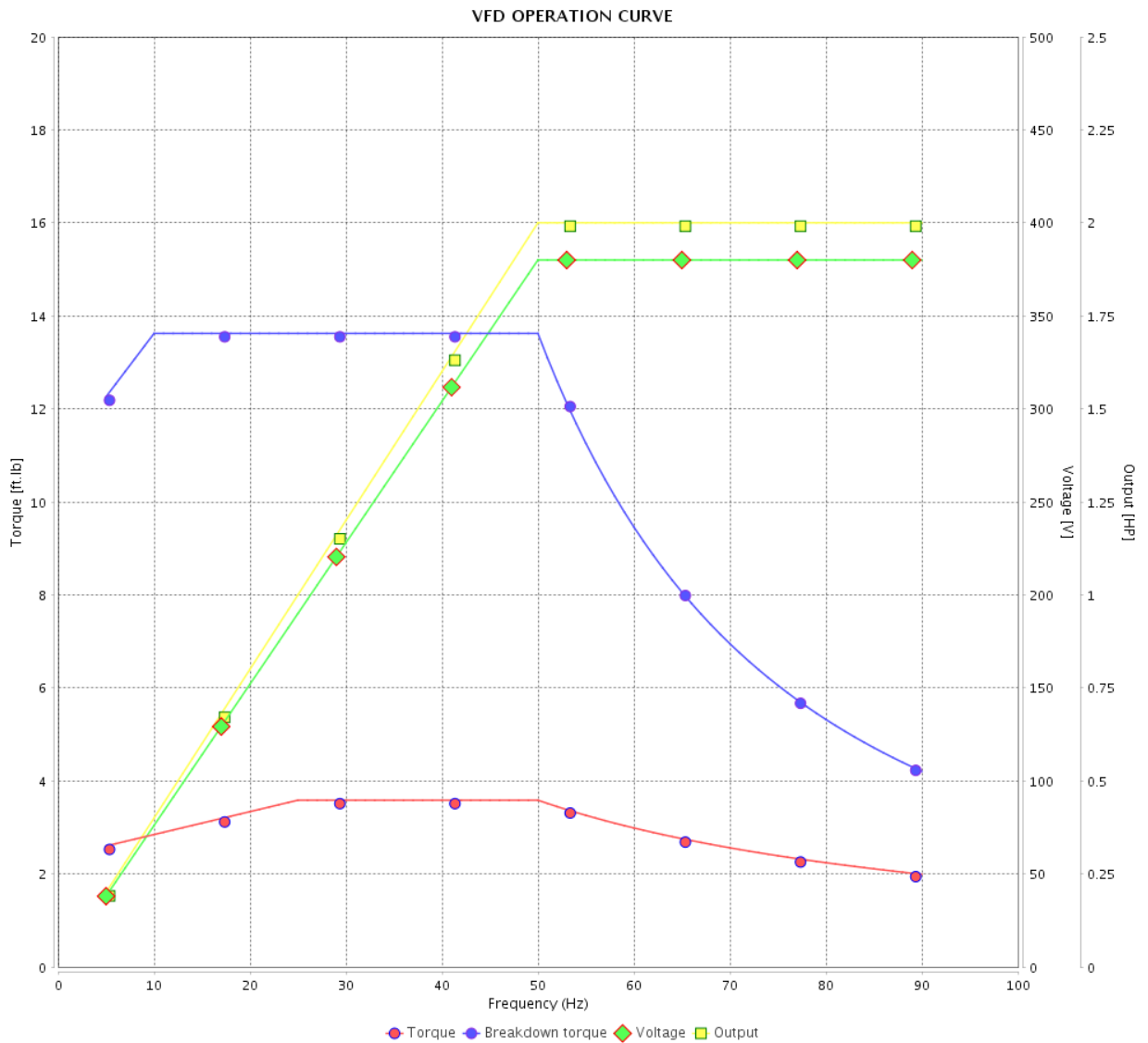


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12598690

Catalog # : 00336ET3E182JP-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 : 310 %
 Breakdown torque : 440 %
 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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Date	13/04/2022			

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



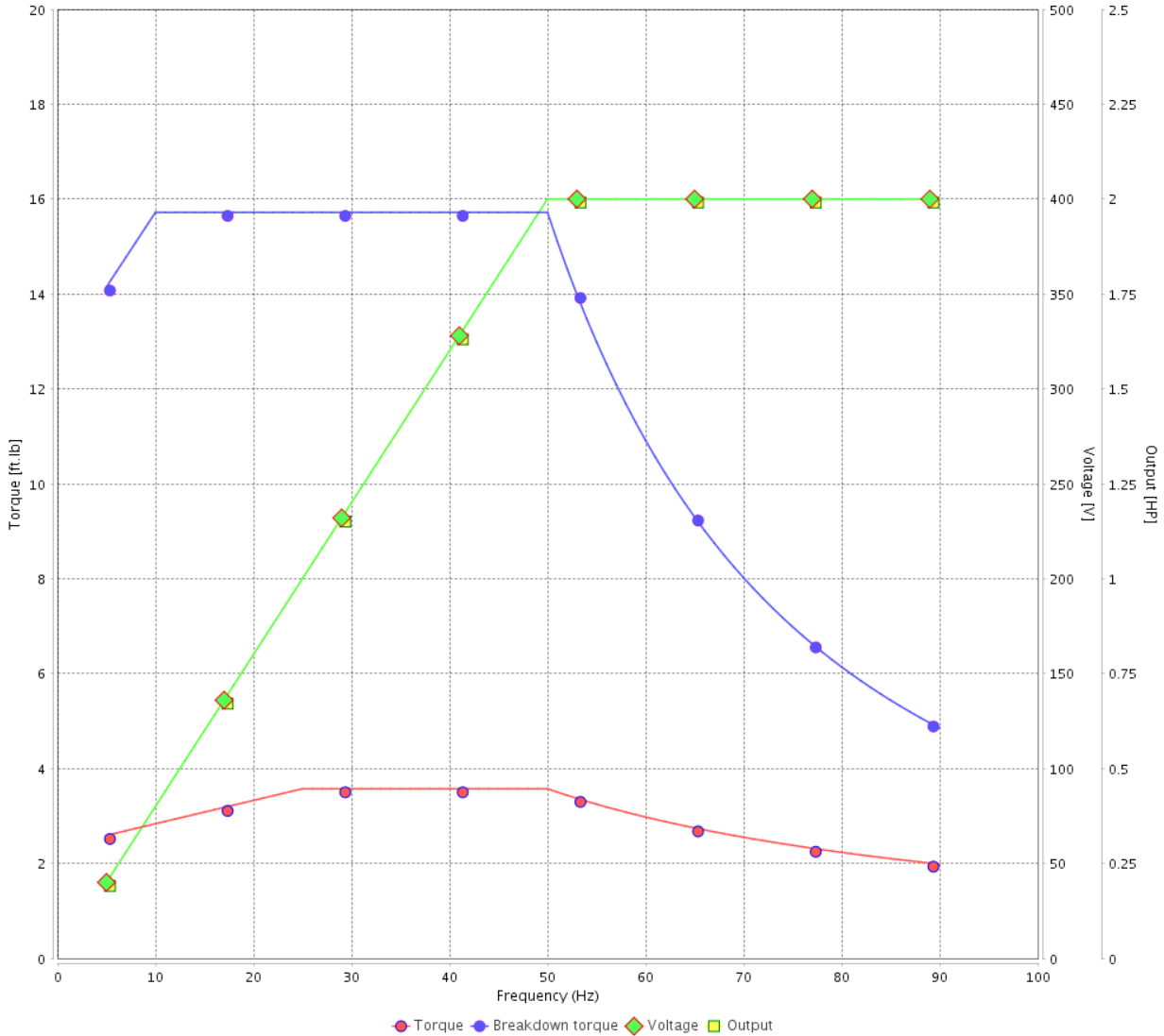
Customer : _____

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12598690

Catalog # : 00336ET3E182JP-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 : 360 %
 Breakdown torque : 500 %
 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

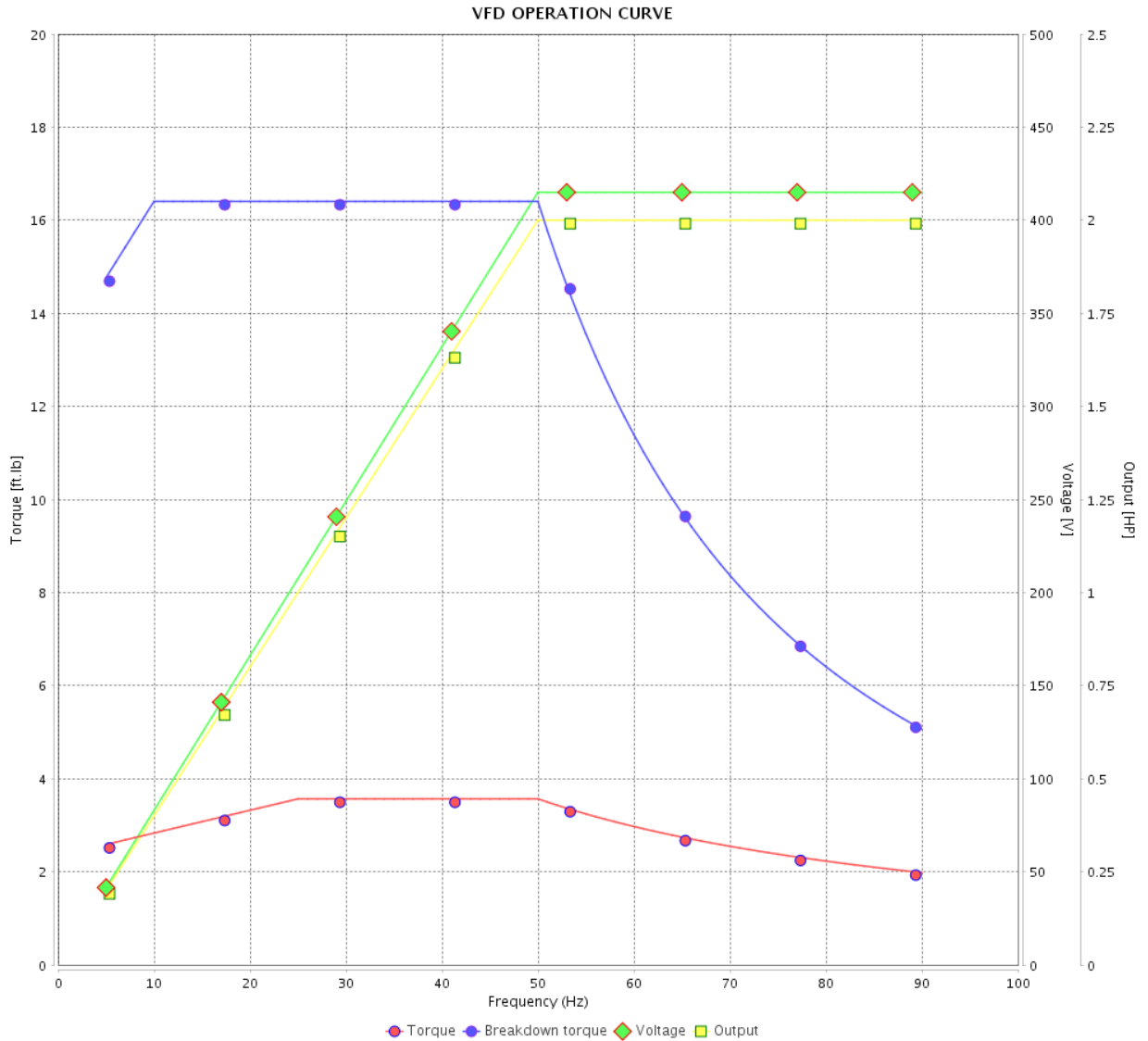


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12598690

Catalog # : 00336ET3E182JP-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 : 390 %
 Breakdown torque : 550 %
 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

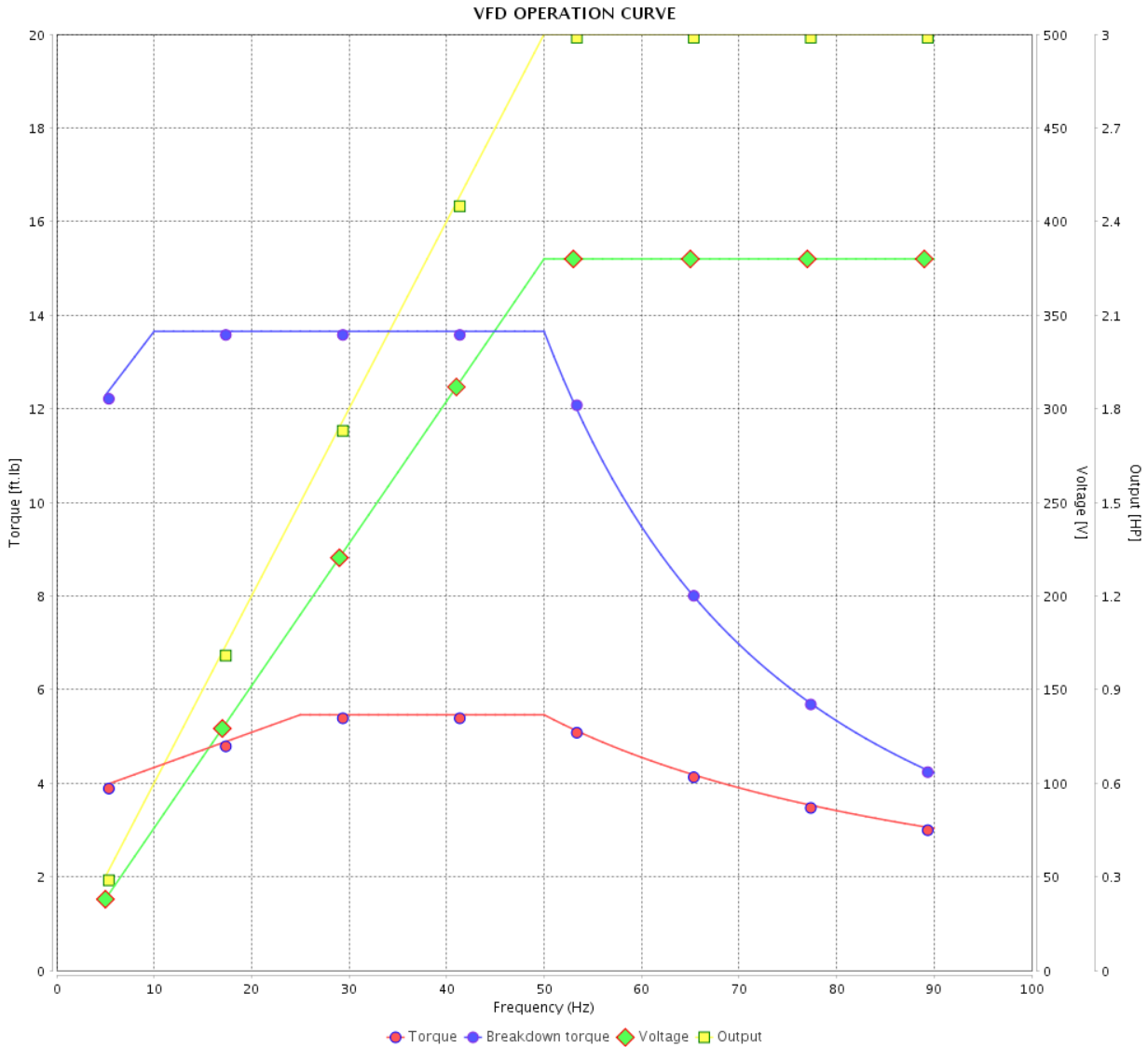


Customer : _____

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12598690

Catalog # : 00336ET3E182JP-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 : 210 %
 Breakdown torque : 290 %
 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

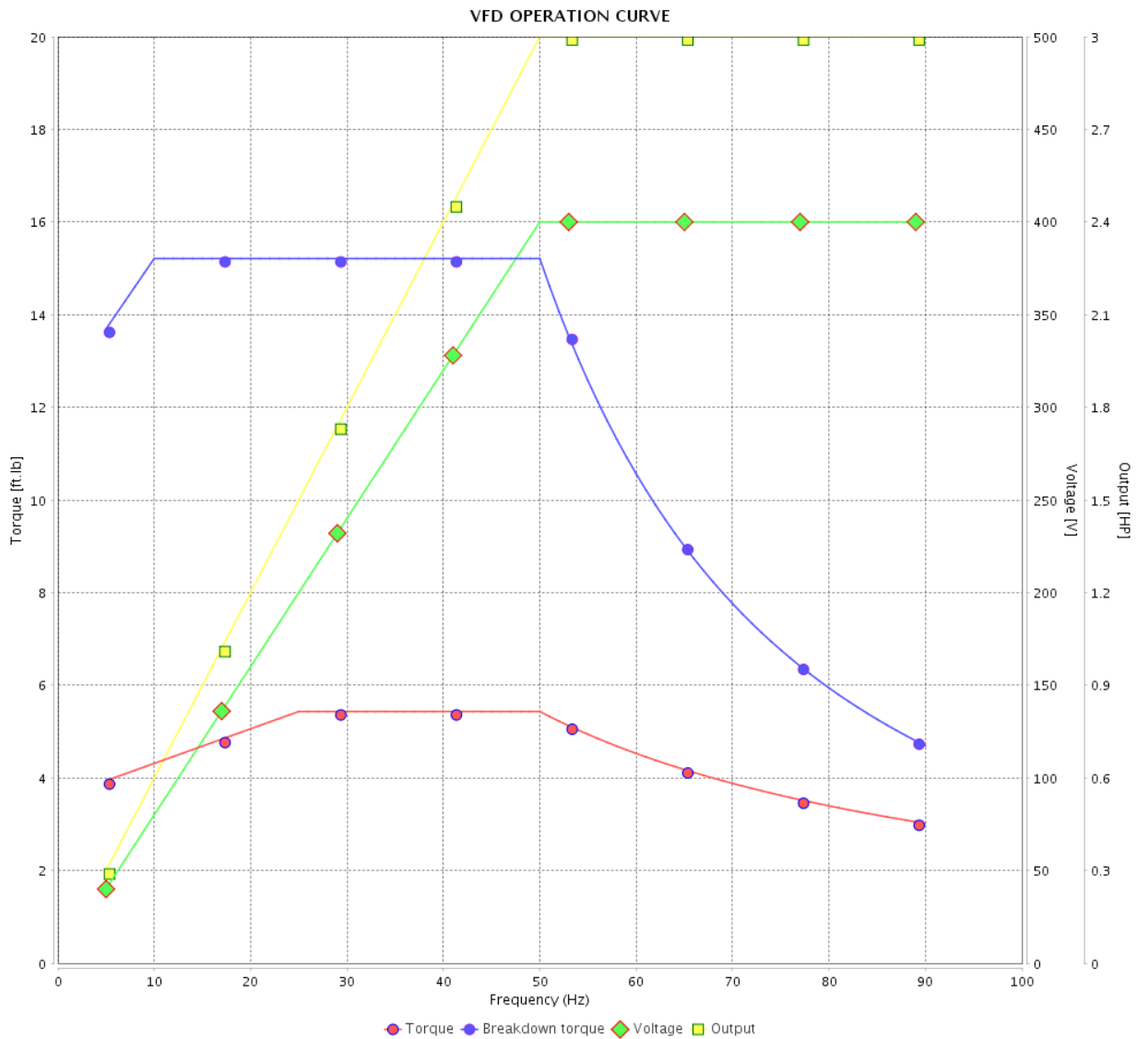


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12598690

Catalog # : 00336ET3E182JP-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 : 240 %
 Breakdown torque : 330 %
 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

Rev.	Changes Summary	Performed	Checked	Date
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

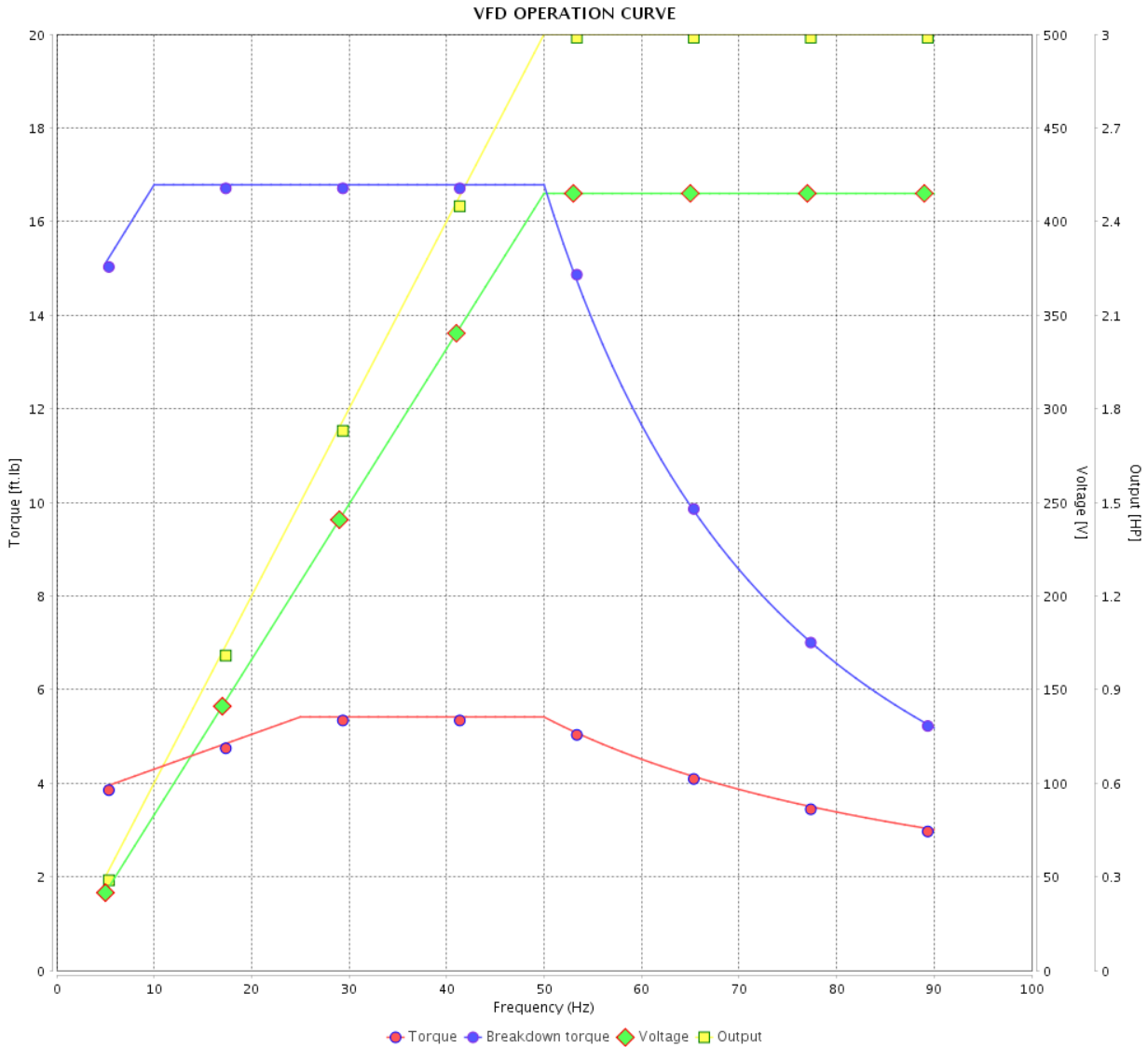


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12598690

Catalog # : 00336ET3E182JP-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 : 260 %
 Breakdown torque : 360 %
 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

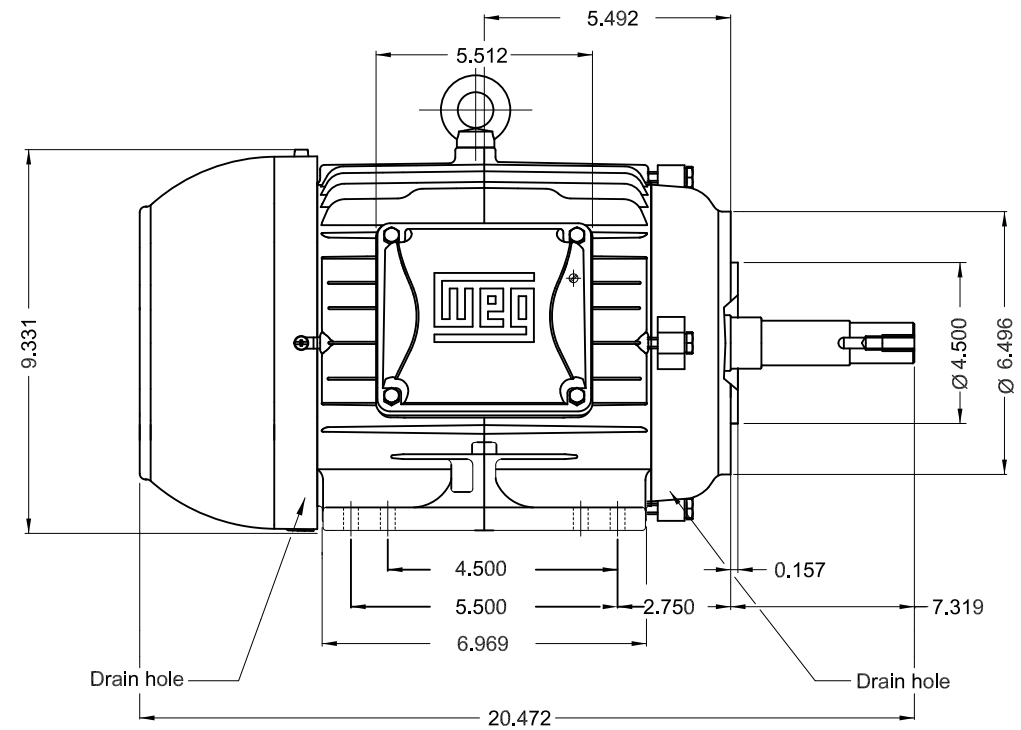
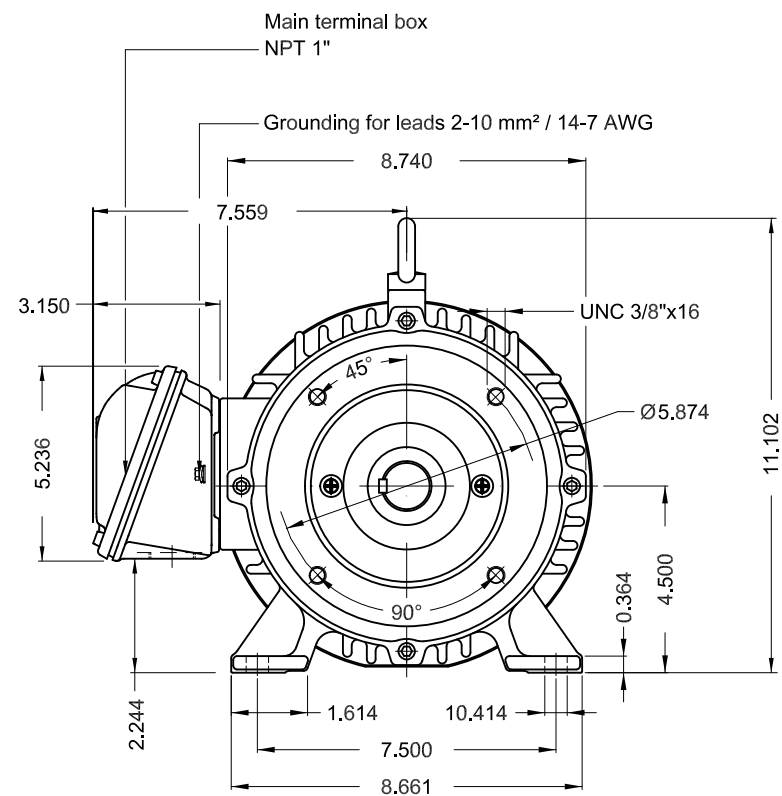
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Checked by				
Date	13/04/2022			

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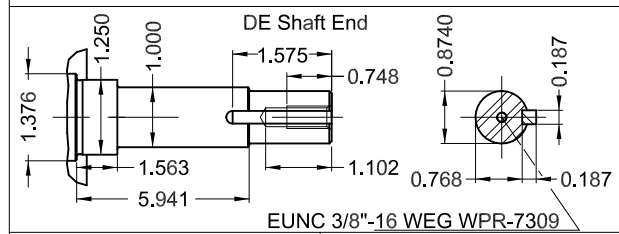
A

B

C



D



E

Color RAL 5009
 Painting plan 207A
 Mounting NEMA F-1
 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 JM/JP/JET PUMP W22 PREM. EFF.					
CHECKED		FRAME 182/4JP IP55 TEFC					
RELEASED							
REL DT.	WMO	Jaragua do Sul	Product Engineering	SHEET	1 / 1		

PREVIEW
 WDD



**W22**

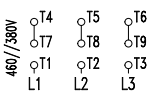
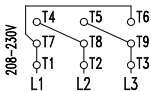
CC029A

® Inverter Duty Motor
Severe Duty

12598690

MADE IN BRAZIL MODEL 00336ET3E182JP-W22

PH 3	FR 182/4JP	HP(kW) 3.0(2.2)	Hz 60	SF 1.25	PF 0.88
V 230/460	A 7.26/3.63	RPM 3515	INS. CL. F	ΔT 80 K	IP55
NEMA NOM EFF 86.5 %				DES B	DUTY CONT.
				AMB 40°C	
ENCL TEFC	SFA 9.07/4.54	USABLE @208V 8.01 A	SF 1.15	SFA 9.21	
3.0HP 2.2kW 50Hz 380V 4.34A 2885RPM SF1.25 EFF 85.5% (IE2)					CODE K



→6307-ZZ

→6206-ZZ

MOBIL POLYREX EM

ALT 1000 m.a.s.l. | 88 Lbs

For 60Hz: Class I, Div 2, Gr. A, B, C and D - T3
Class I, Zone 2, IIC - T3

Class II, Div 2, Gr. F and G - T5

For use on PWM, Gr. A, B, C, D, F and G
VT1000:1, CT20:1, 1.0SF, T4A



FOR SAFE AREA
MOD.TE1BFOXON