

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer								
Product line		: NEMA Premium Efficiency Three-Phase		Product code :		11717746		
				Catalog # :		12509ET3G447T-W22		
Frame		: 445/7T		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		: 2038 lb		
Protection degree		: IP55		Moment of inertia (J)		: 104 sq.ft.lb		
Design		: B						
Output [HP]	125	100	100	100	125	125	125	
Poles	8	8	8	8	8	8	8	
Frequency [Hz]	60	50	50	50	50	50	50	
Rated voltage [V]	460	380	400	415	380	400	415	
Rated current [A]	151	146	142	143	183	175	169	
L. R. Amperes [A]	906	864	925	969	860	928	963	
LRC [A]	6.0x(Code G)	5.9x(Code G)	6.5x(Code H)	6.8x(Code J)	4.7x(Code E)	5.3x(Code F)	5.7x(Code G)	
No load current [A]	65.0	64.1	70.0	75.5	64.1	70.0	75.5	
Rated speed [RPM]	890	735	740	740	735	740	740	
Slip [%]	1.11	2.00	1.33	1.33	2.00	1.33	1.33	
Rated torque [ft.lb]	738	711	710	709	893	892	889	
Locked rotor torque [%]	180	180	200	229	140	160	180	
Breakdown torque [%]	210	210	240	260	170	190	210	
Service factor	1.15	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	30s (cold) 17s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)	
Noise level ²	63.0 dB(A)							
Efficiency (%)	25%	94.4	95.0	93.7	92.7	95.5	94.5	93.5
	50%	94.5	94.4	93.6	92.9	94.5	94.0	93.6
	75%	94.5	94.2	93.9	93.7	93.6	93.6	93.6
	100%	94.5	93.4	93.6	93.7	92.4	93.0	93.6
Power Factor	25%	0.40	0.38	0.35	0.33	0.46	0.42	0.39
	50%	0.64	0.62	0.58	0.55	0.70	0.66	0.63
	75%	0.74	0.74	0.71	0.68	0.78	0.76	0.73
	100%	0.79	0.80	0.78	0.75	0.81	0.80	0.79
Bearing type	: Drive end 6319 C3 Non drive end 6316 C3		Foundation loads					
Sealing	: WSeal WSeal		Max. traction : 3947 lb					
Lubrication interval	: 17000 h 20000 h		Max. compression : 5985 lb					
Lubricant amount	: 45 g 34 g							
Lubricant type	: Mobil Polyrex EM							
Notes								
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



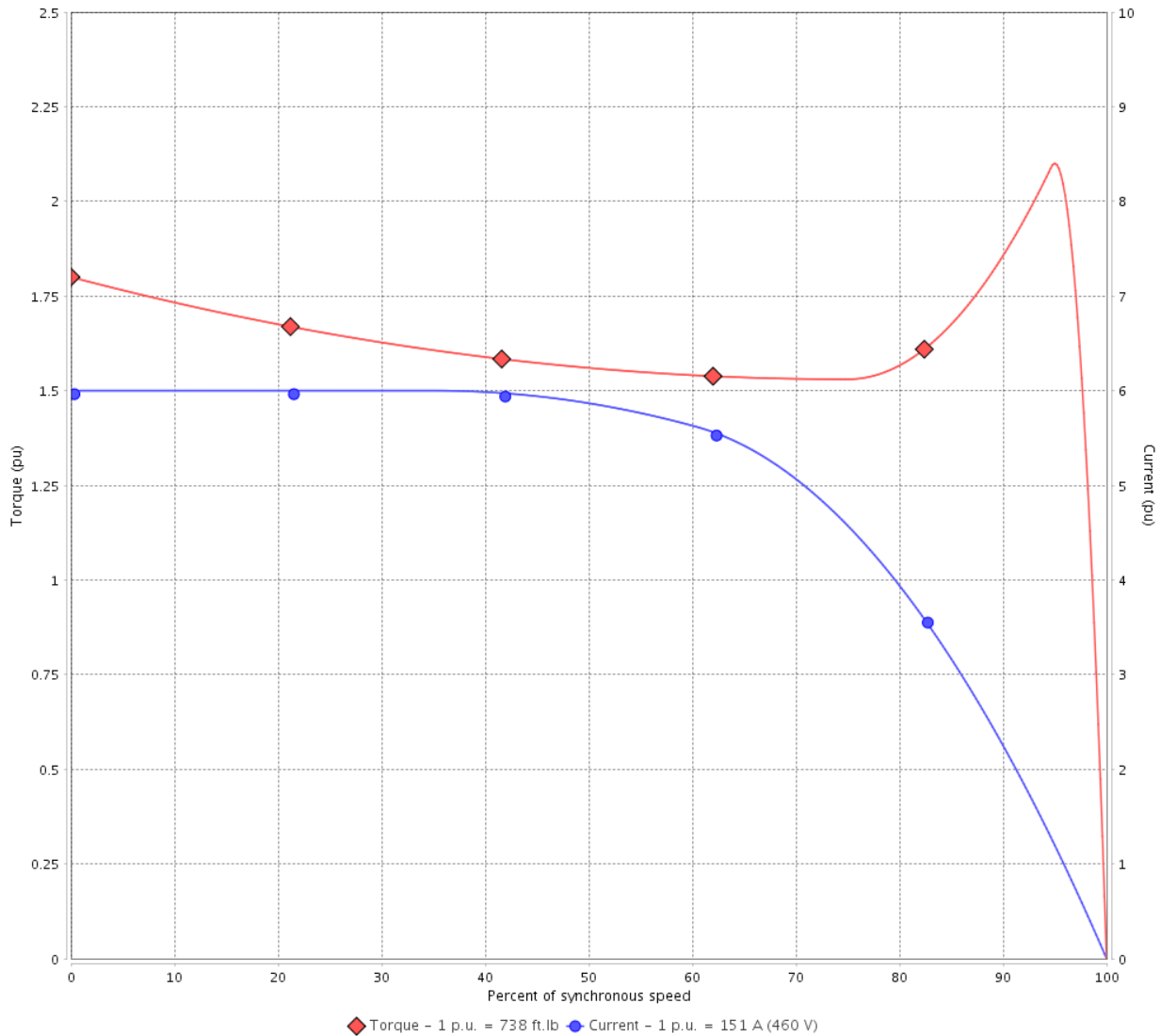
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11717746

Catalog # : 12509ET3G447T-W22

TORQUE AND CURRENT VS SPEED CURVE



Performance : 460 V 60 Hz 8P

Rated current	: 151 A	Moment of inertia (J)	: 104 sq.ft.lb
LRC	: 6.0	Duty cycle	: Cont.(S1)
Rated torque	: 738 ft.lb	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.15
Breakdown torque	: 210 %	Temperature rise	: 80 K
Rated speed	: 890 rpm	Design	: B

Locked rotor time : 30s (cold) 17s (hot)

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TORQUE AND CURRENT VS SPEED CURVE



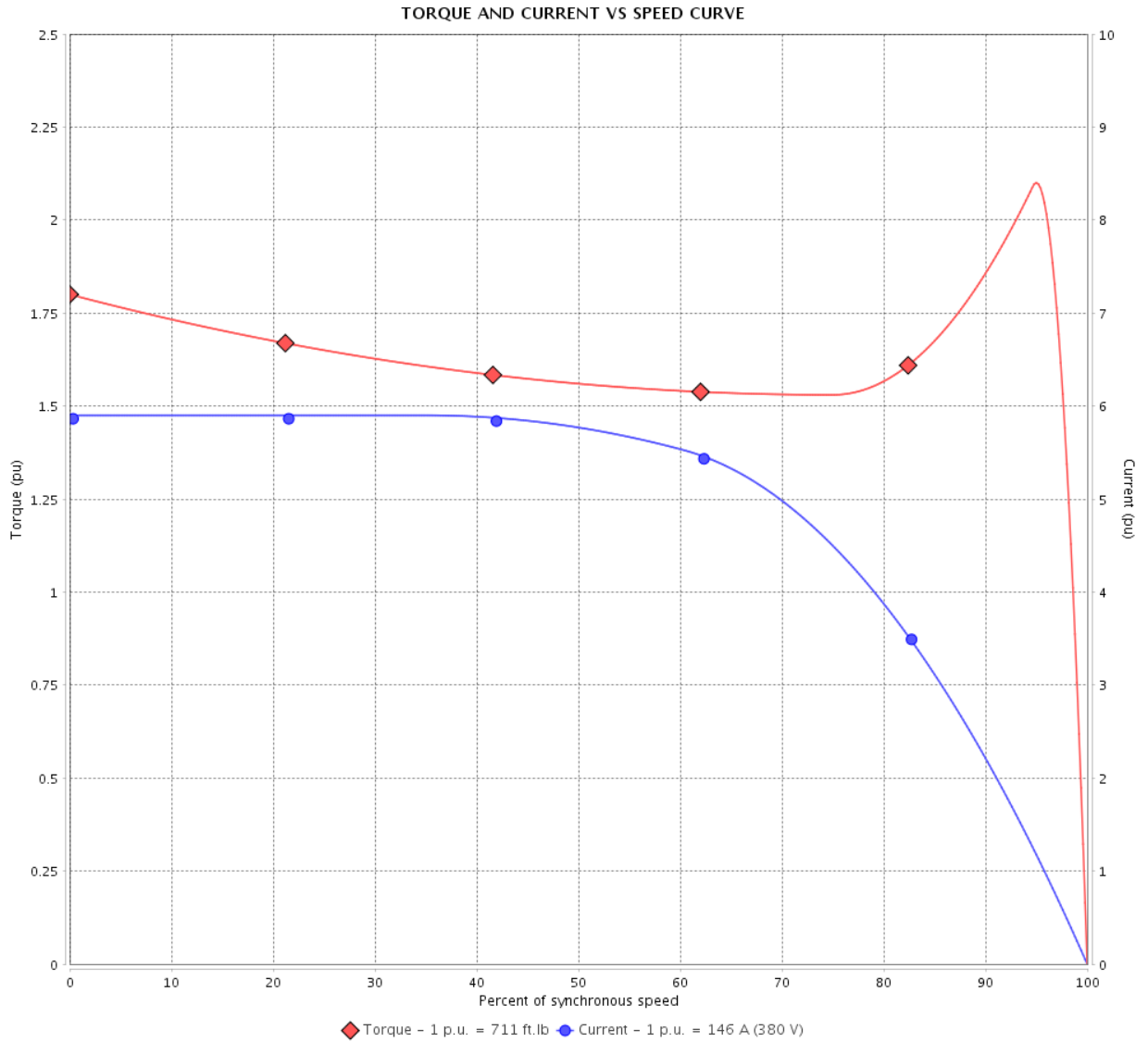
Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11717746

Catalog # : 12509ET3G447T-W22



Performance : 380 V 50 Hz 8P IE3

Rated current	: 146 A	Moment of inertia (J)	: 104 sq.ft.lb
LRC	: 5.9	Duty cycle	: Cont.(S1)
Rated torque	: 711 ft.lb	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.00
Breakdown torque	: 210 %	Temperature rise	: 80 K
Rated speed	: 735 rpm	Design	: B

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

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



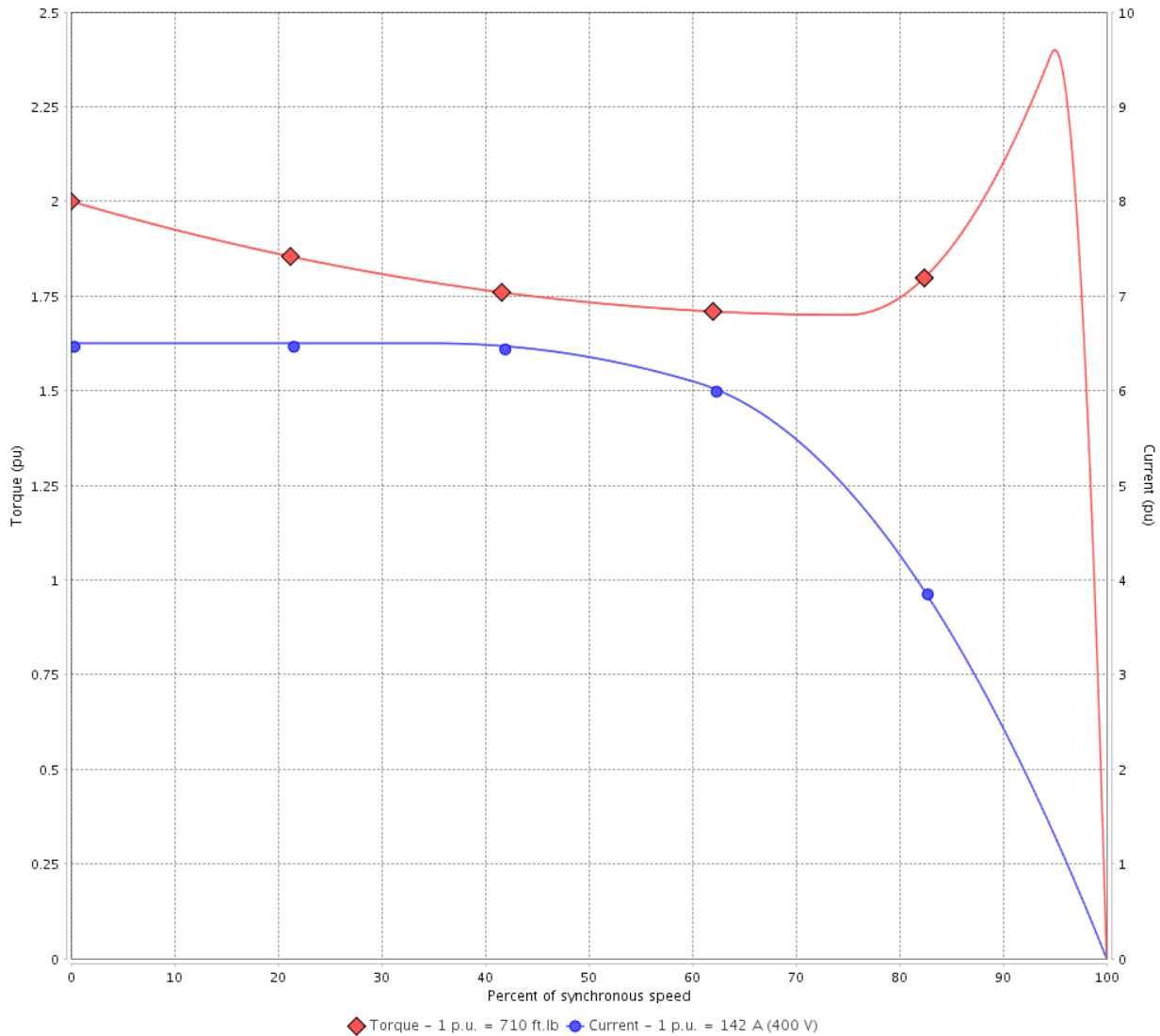
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Catalog # : 12509ET3G447T-W22

TORQUE AND CURRENT VS SPEED CURVE



Performance : 400 V 50 Hz 8P IE3

Rated current	: 142 A	Moment of inertia (J)	: 104 sq.ft.lb
LRC	: 6.5	Duty cycle	: Cont.(S1)
Rated torque	: 710 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.00
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 740 rpm	Design	: B

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

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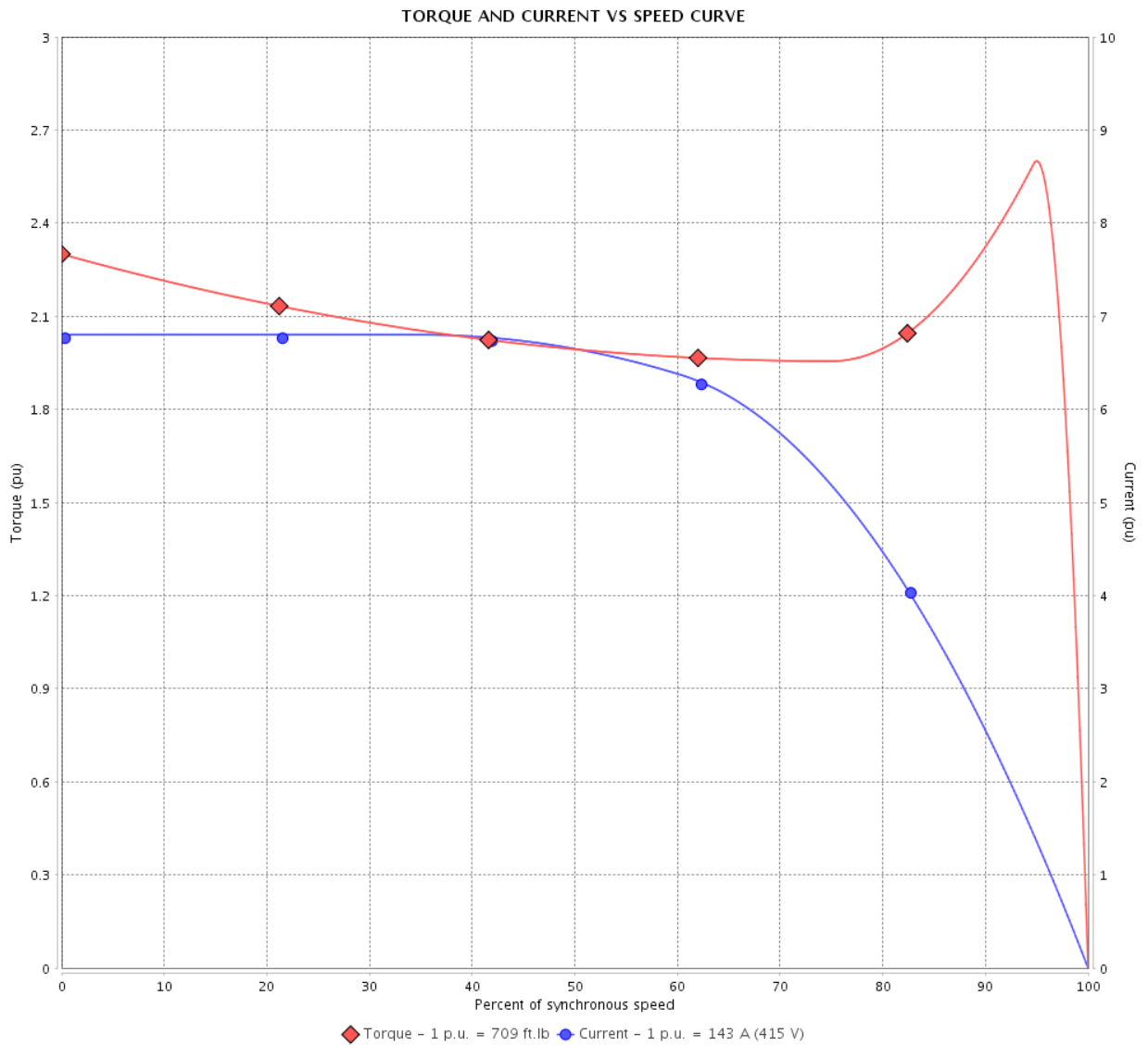
TORQUE AND CURRENT VS SPEED CURVE



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase Product code : 11717746
 Catalog # : 12509ET3G447T-W22



Performance : 415 V 50 Hz 8P IE3

Rated current	: 143 A	Moment of inertia (J)	: 104 sq.ft.lb
LRC	: 6.8	Duty cycle	: Cont.(S1)
Rated torque	: 709 ft.lb	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.00
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 740 rpm	Design	: B

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

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TORQUE AND CURRENT VS SPEED CURVE

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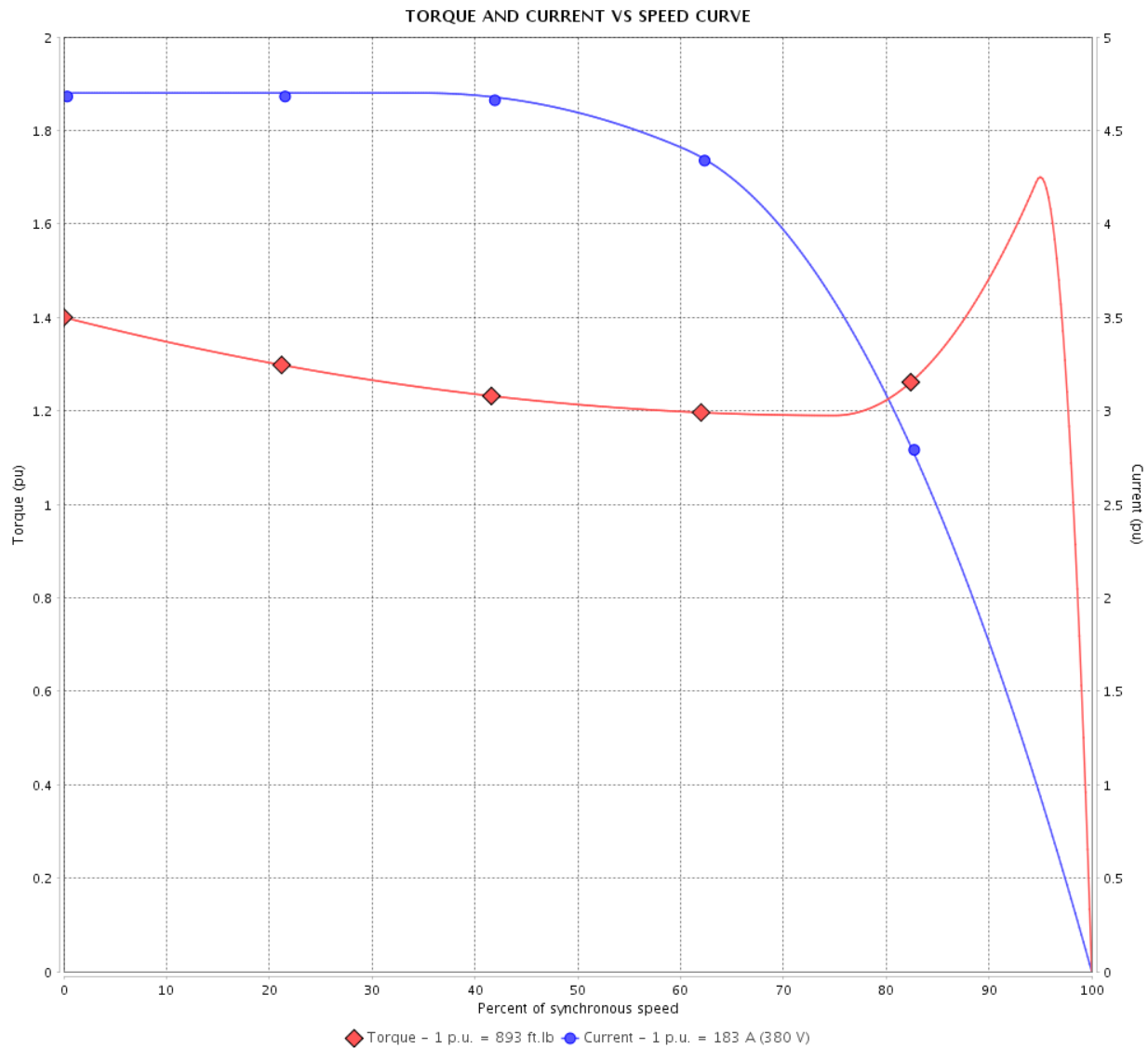


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11717746

Catalog # : 12509ET3G447T-W22



Performance : 380 V 50 Hz 8P IE2

Rated current	: 183 A	Moment of inertia (J)	: 104 sq.ft.lb
LRC	: 4.7	Duty cycle	: Cont.(S1)
Rated torque	: 893 ft.lb	Insulation class	: F
Locked rotor torque	: 140 %	Service factor	: 1.00
Breakdown torque	: 170 %	Temperature rise	: 105 K
Rated speed	: 735 rpm	Design	: B

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

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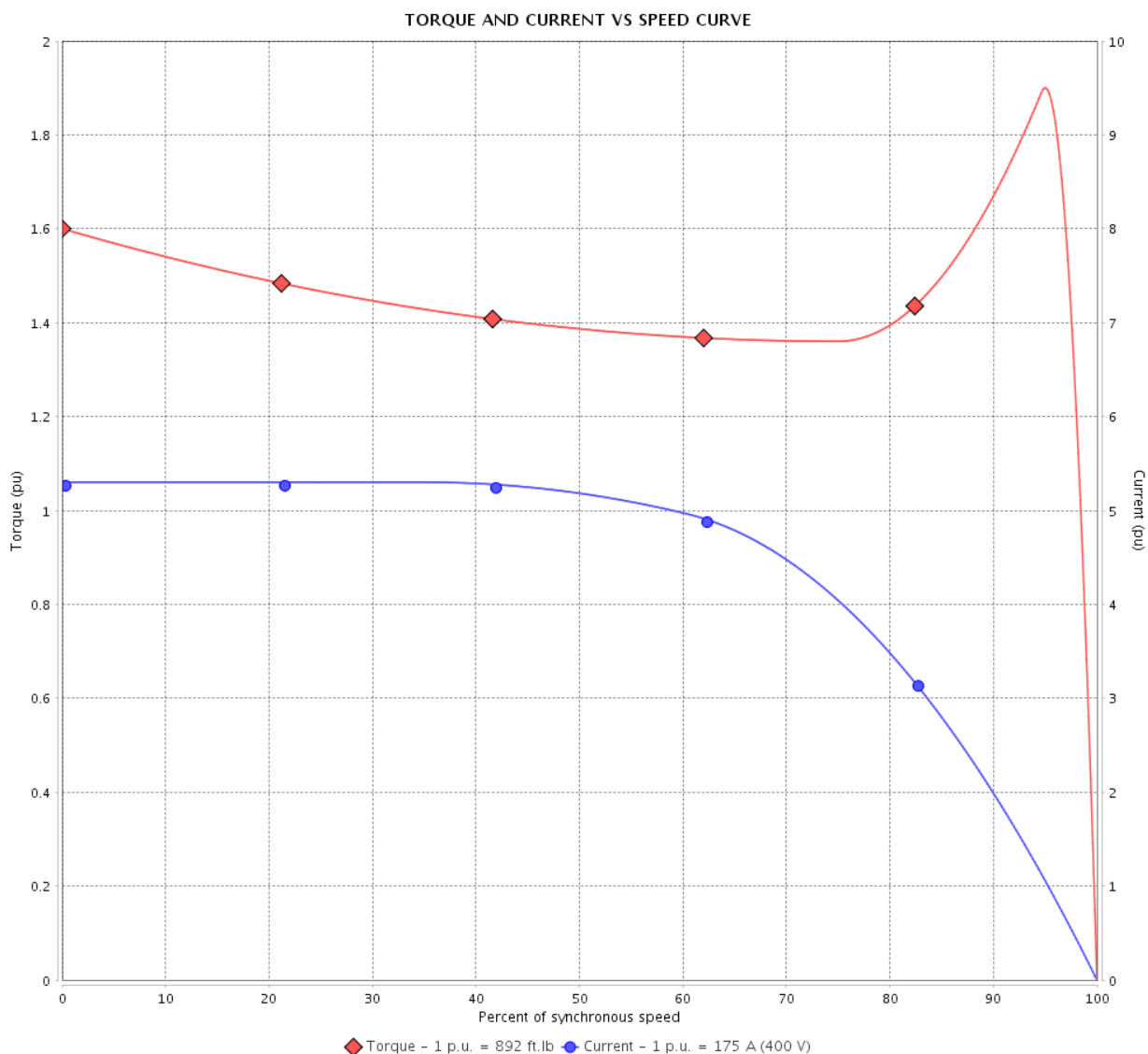
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Three Phase Induction Motor - Squirrel Cage

Customer :

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 Product code : 11717746
 Catalog # : 12509ET3G447T-W22



Performance : 400 V 50 Hz 8P IE2

Rated current	: 175 A	Moment of inertia (J)	: 104 sq.ft.lb
LRC	: 5.3	Duty cycle	: Cont.(S1)
Rated torque	: 892 ft.lb	Insulation class	: F
Locked rotor torque	: 160 %	Service factor	: 1.00
Breakdown torque	: 190 %	Temperature rise	: 105 K
Rated speed	: 740 rpm	Design	: B

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

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



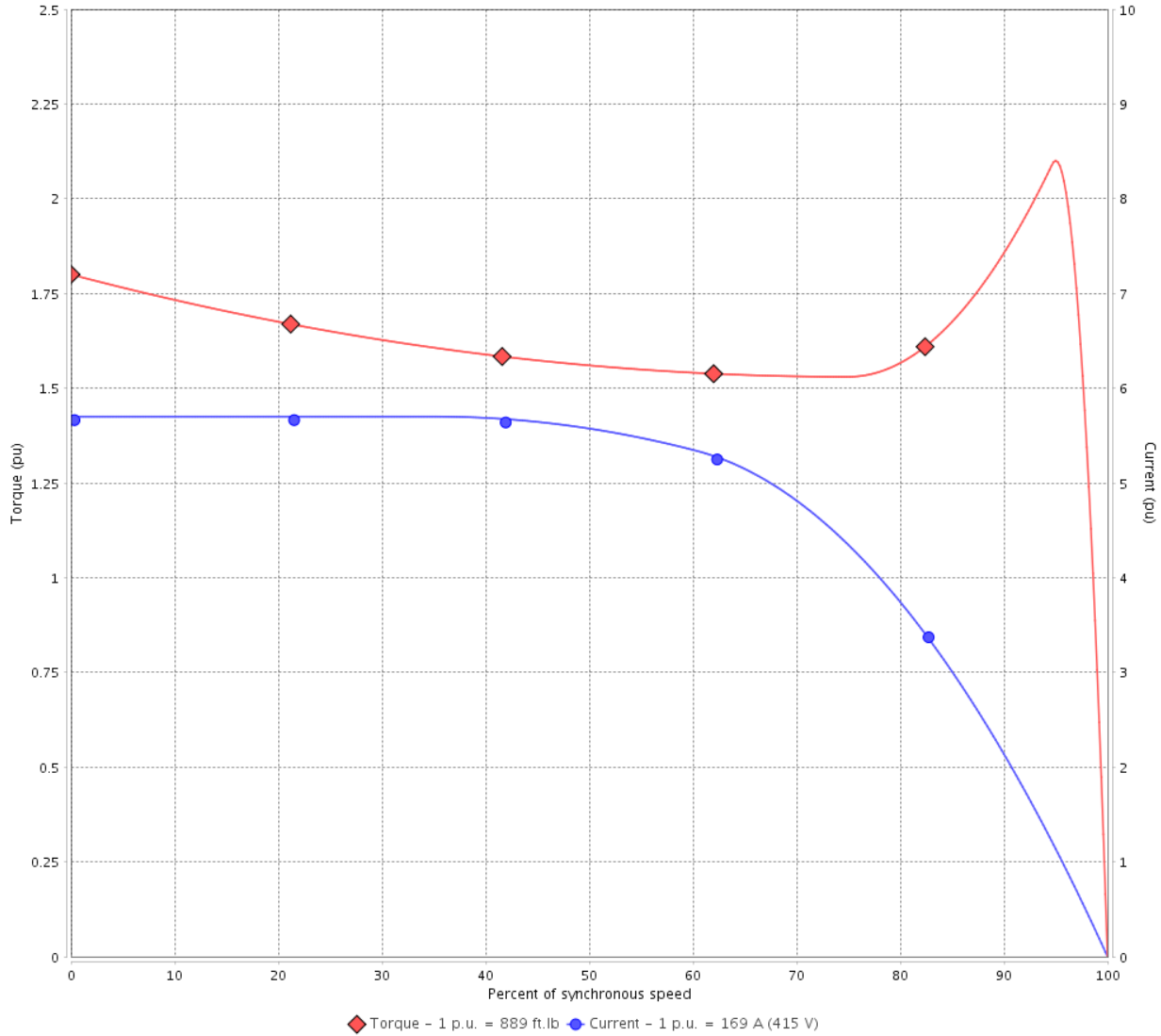
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11717746

Catalog # : 12509ET3G447T-W22

TORQUE AND CURRENT VS SPEED CURVE



Performance : 415 V 50 Hz 8P IE3

Rated current	: 169 A	Moment of inertia (J)	: 104 sq.ft.lb
LRC	: 5.7	Duty cycle	: Cont.(S1)
Rated torque	: 889 ft.lb	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.00
Breakdown torque	: 210 %	Temperature rise	: 105 K
Rated speed	: 740 rpm	Design	: B

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

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Three Phase Induction Motor - Squirrel Cage

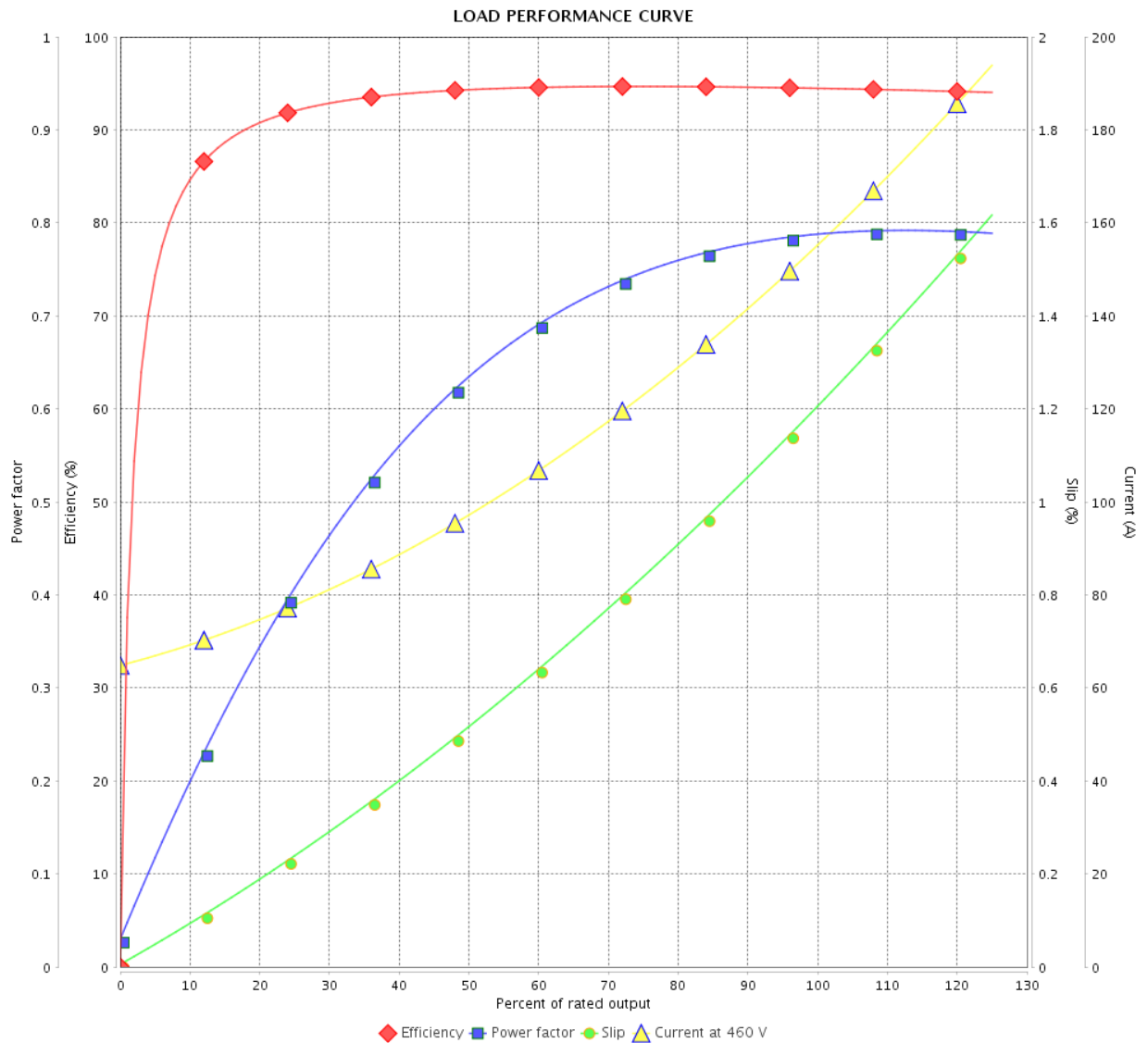


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11717746

Catalog # : 12509ET3G447T-W22



Performance : 460 V 60 Hz 8P

Rated current : 151 A
 LRC : 6.0
 Rated torque : 738 ft.lb
 Locked rotor torque : 180 %
 Breakdown torque : 210 %
 Rated speed : 890 rpm

Moment of inertia (J) : 104 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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Three Phase Induction Motor - Squirrel Cage

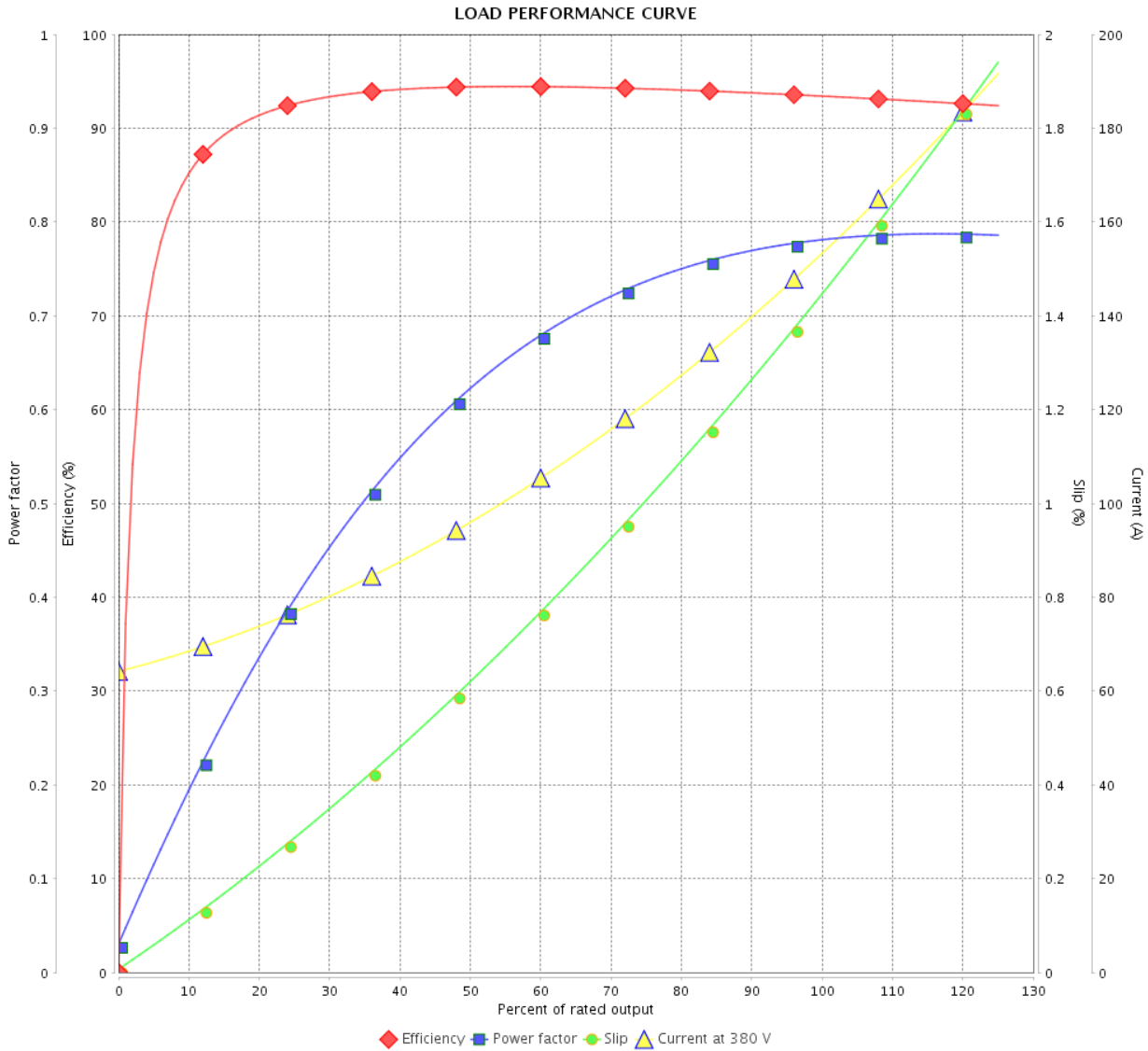


Customer :

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Product code : 11717746

Catalog # : 12509ET3G447T-W22



Performance : 380 V 50 Hz 8P IE3

Rated current : 146 A
 LRC : 5.9
 Rated torque : 711 ft.lb
 Locked rotor torque : 180 %
 Breakdown torque : 210 %
 Rated speed : 735 rpm

Moment of inertia (J) : 104 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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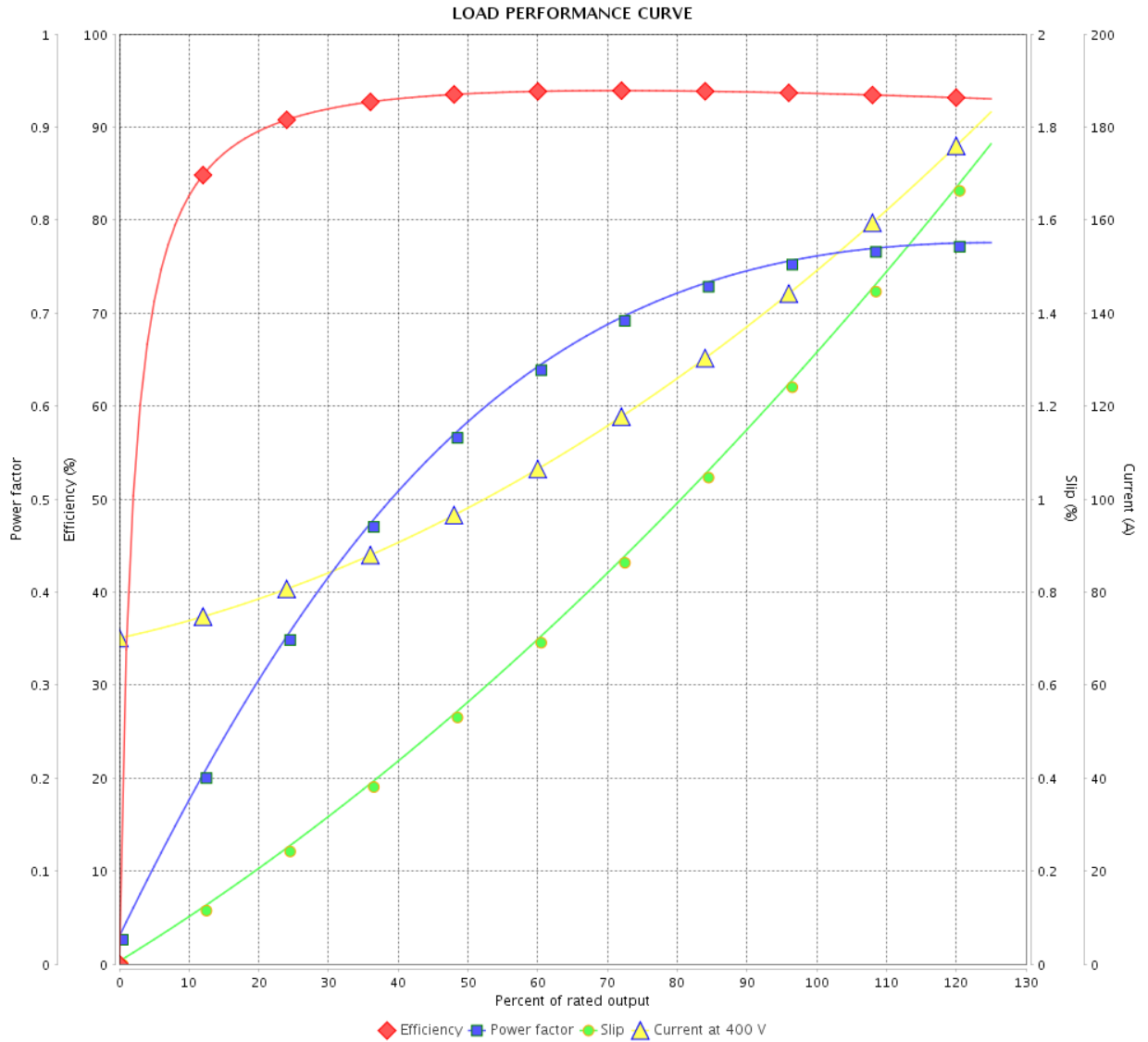


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Performance : 400 V 50 Hz 8P IE3

Rated current : 142 A
 LRC : 6.5
 Rated torque : 710 ft.lb
 Locked rotor torque : 200 %
 Breakdown torque : 240 %
 Rated speed : 740 rpm

Moment of inertia (J) : 104 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

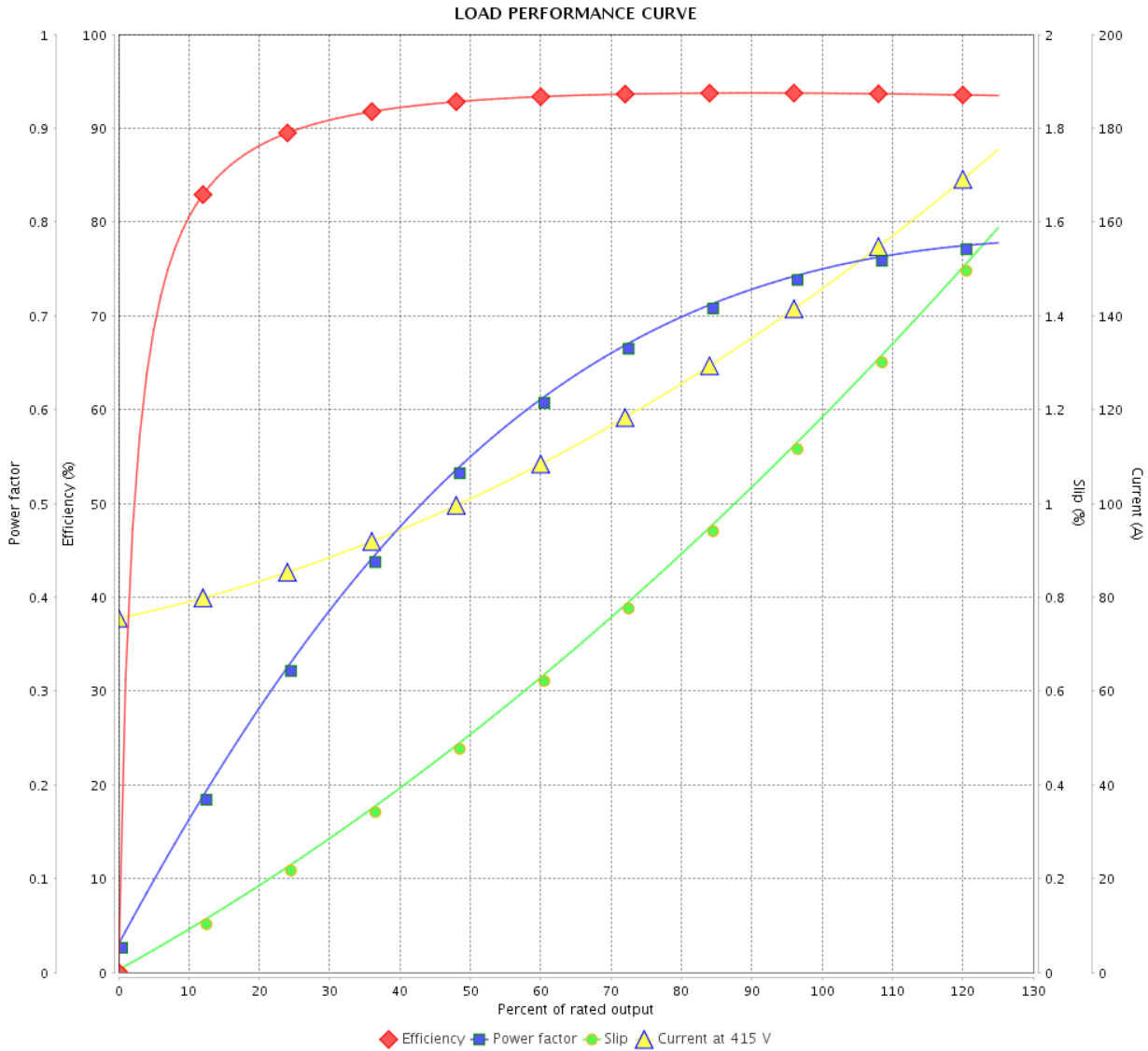


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Performance : 415 V 50 Hz 8P IE3

Rated current	: 143 A	Moment of inertia (J)	: 104 sq.ft.lb
LRC	: 6.8	Duty cycle	: Cont.(S1)
Rated torque	: 709 ft.lb	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.00
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 740 rpm	Design	: B

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Three Phase Induction Motor - Squirrel Cage

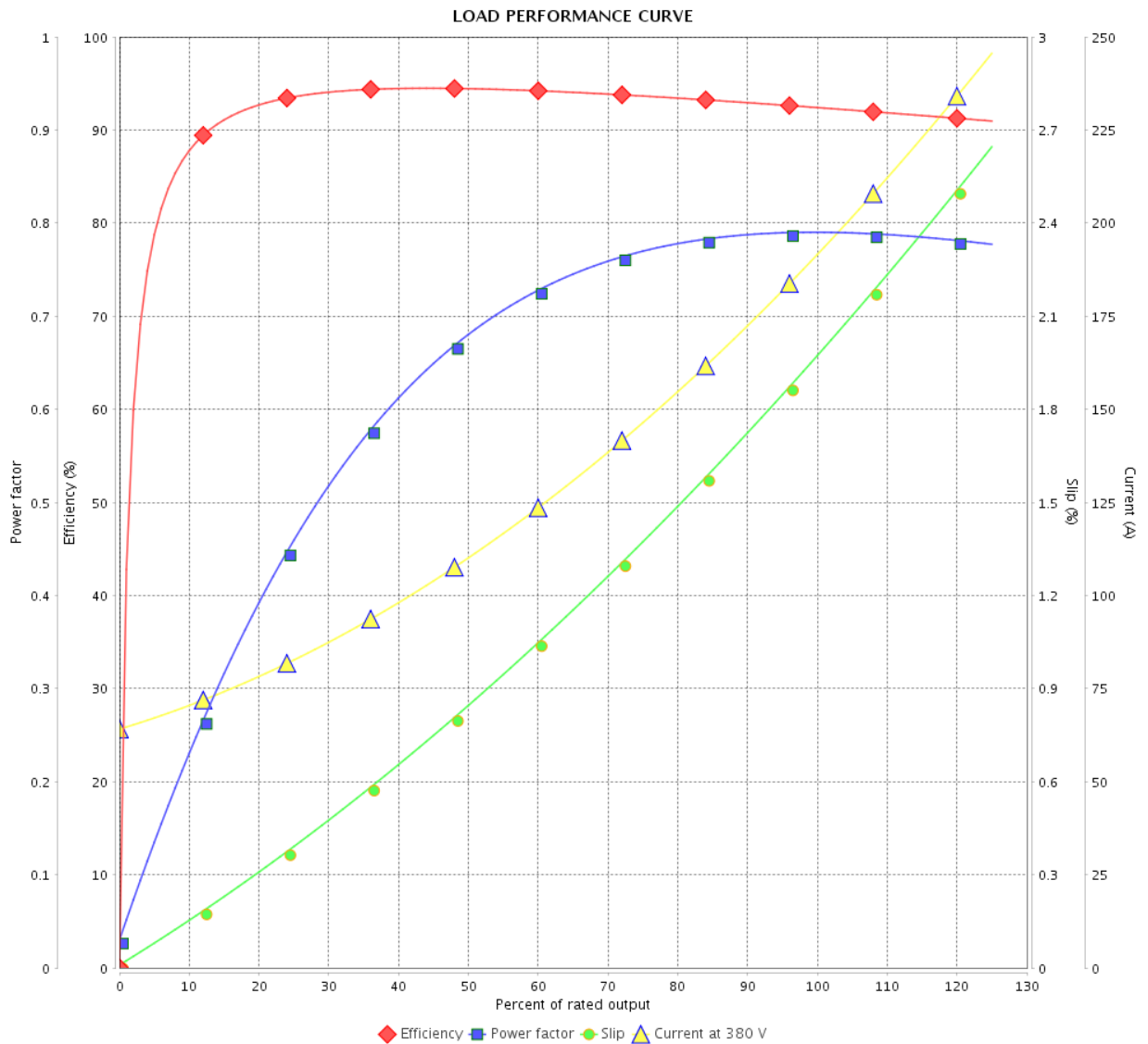


Customer : _____

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11717746

Catalog # : 12509ET3G447T-W22



Performance : 380 V 50 Hz 8P IE2

Rated current : 183 A
 LRC : 4.7
 Rated torque : 893 ft.lb
 Locked rotor torque : 140 %
 Breakdown torque : 170 %
 Rated speed : 735 rpm

Moment of inertia (J) : 104 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : B

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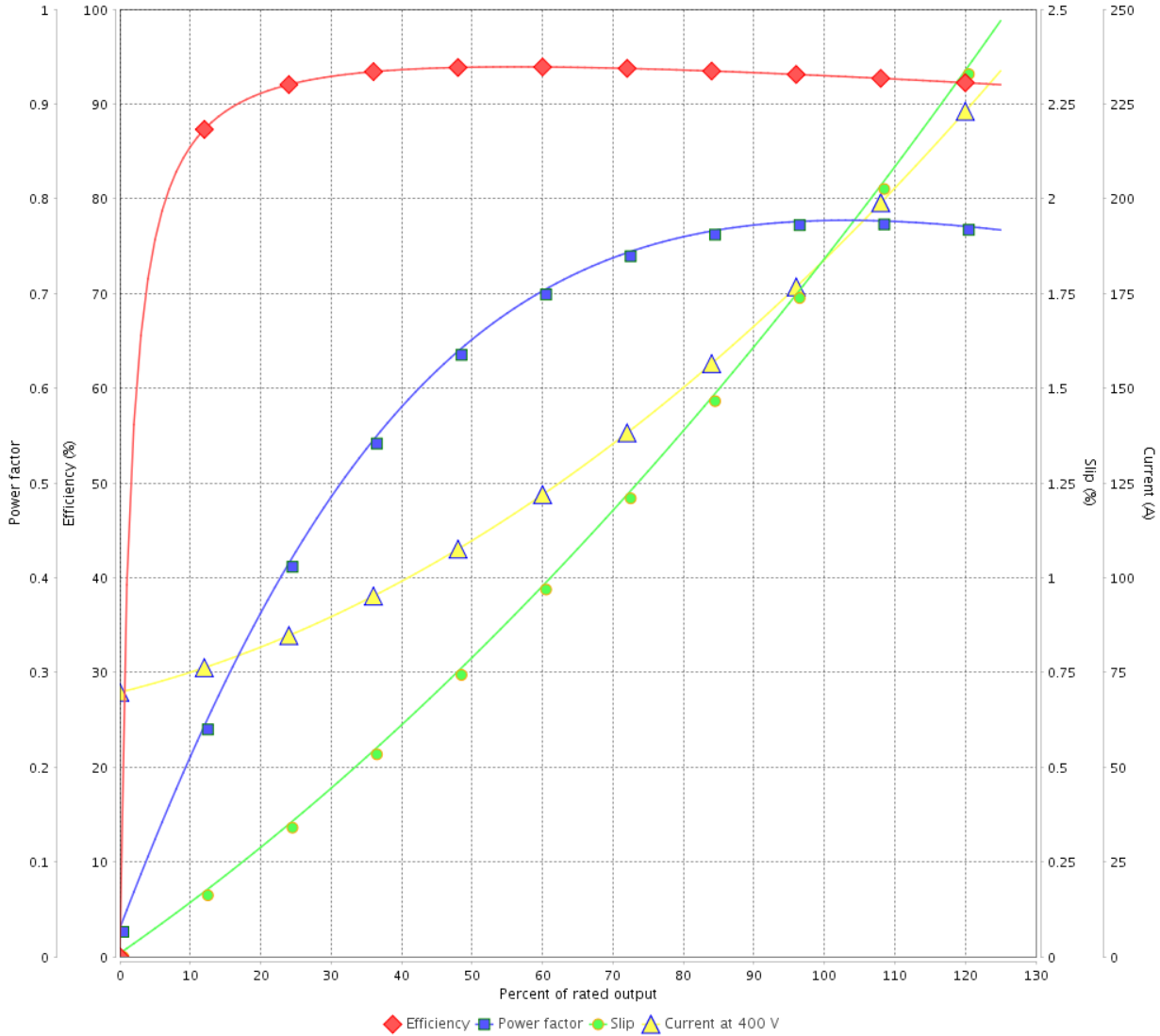
Customer :

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LOAD PERFORMANCE CURVE



Performance : 400 V 50 Hz 8P IE2

Rated current : 175 A
 LRC : 5.3
 Rated torque : 892 ft.lb
 Locked rotor torque : 160 %
 Breakdown torque : 190 %
 Rated speed : 740 rpm

Moment of inertia (J) : 104 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

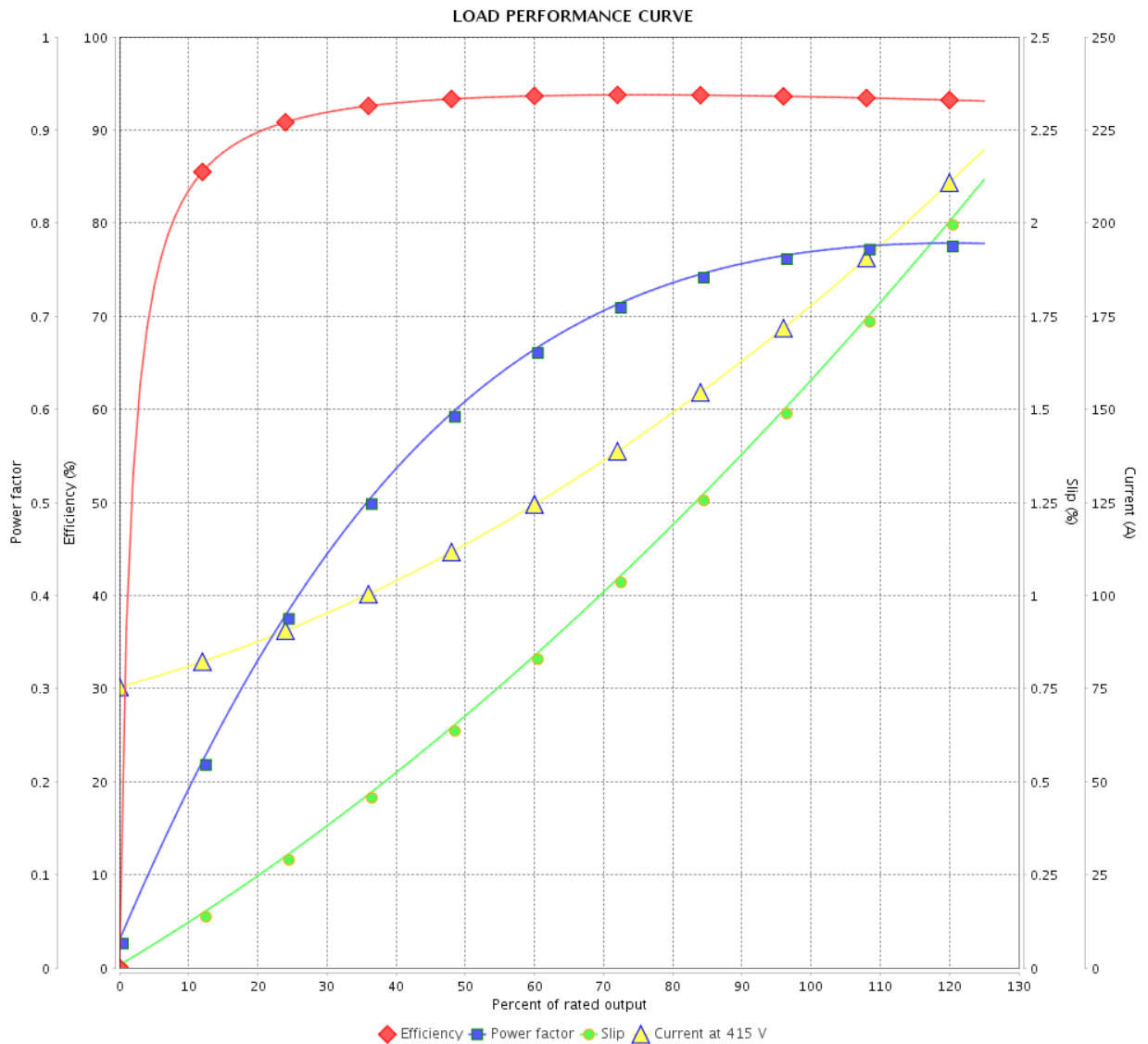


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11717746

Catalog # : 12509ET3G447T-W22



Performance : 415 V 50 Hz 8P IE3

Rated current : 169 A
 LRC : 5.7
 Rated torque : 889 ft.lb
 Locked rotor torque : 180 %
 Breakdown torque : 210 %
 Rated speed : 740 rpm

Moment of inertia (J) : 104 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 :

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Performance : 460 V 60 Hz 8P

Rated current	: 151 A	Moment of inertia (J)	: 104 sq.ft.lb
LRC	: 6.0	Duty cycle	: Cont.(S1)
Rated torque	: 738 ft.lb	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.15
Breakdown torque	: 210 %	Temperature rise	: 80 K
Rated speed	: 890 rpm	Design	: B

Heating constant

Cooling constant

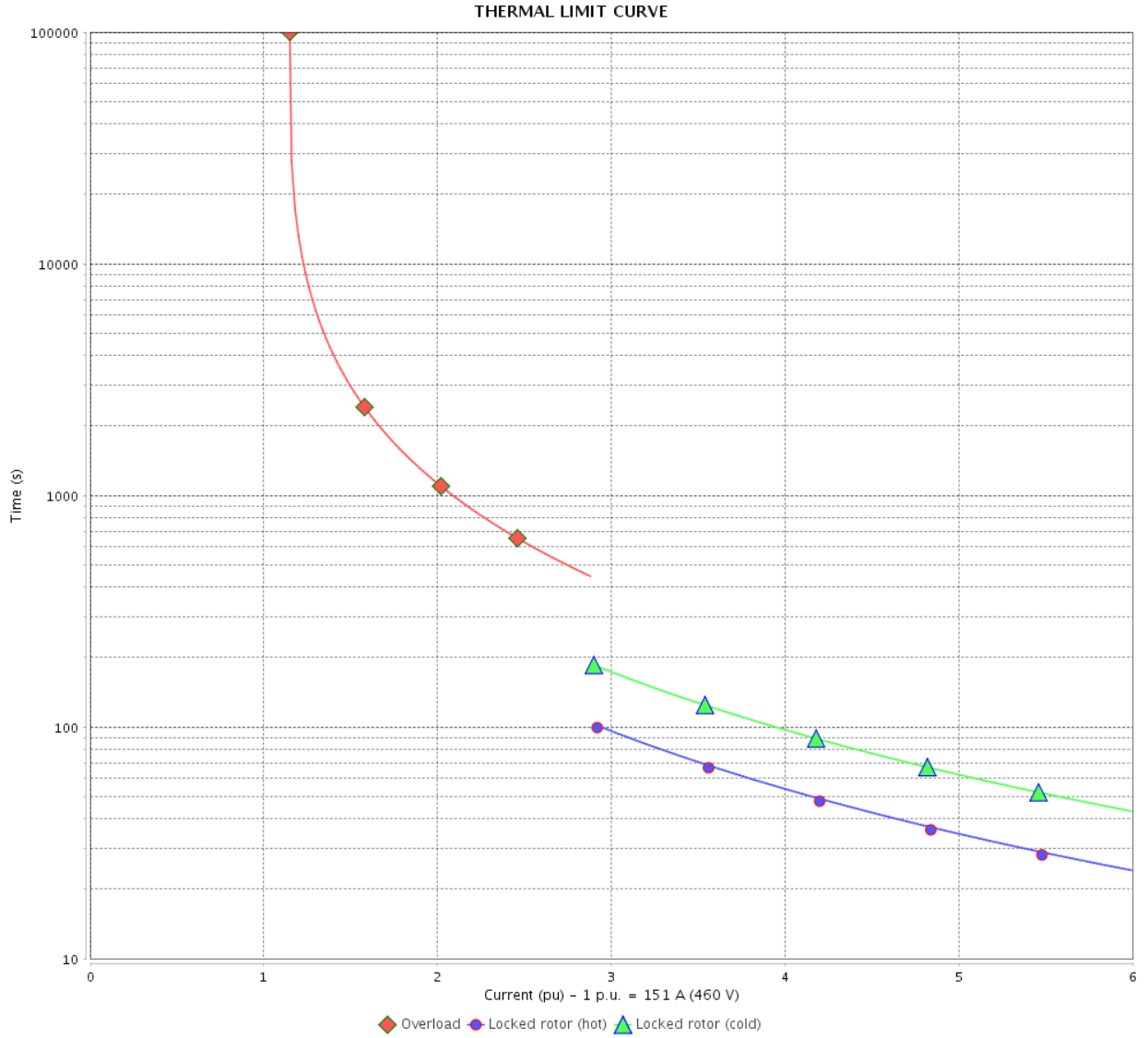
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Three Phase Induction Motor - Squirrel Cage



Customer : _____



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Performance : 380 V 50 Hz 8P IE3

Rated current	: 146 A	Moment of inertia (J)	: 104 sq.ft.lb
LRC	: 5.9	Duty cycle	: Cont.(S1)
Rated torque	: 711 ft.lb	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.00
Breakdown torque	: 210 %	Temperature rise	: 80 K
Rated speed	: 735 rpm	Design	: B

Heating constant

Cooling constant

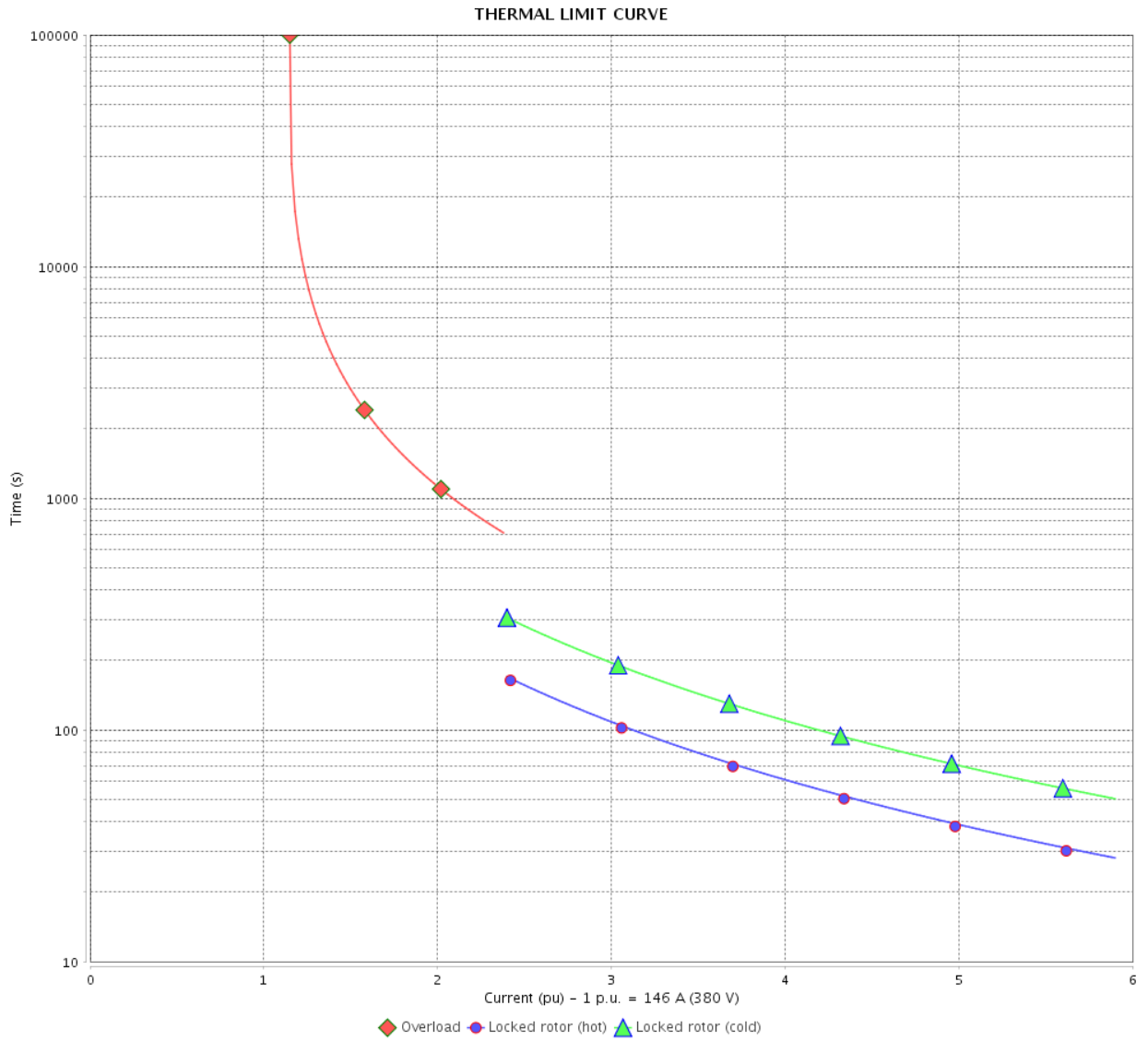
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Three Phase Induction Motor - Squirrel Cage



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Customer :

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Performance : 400 V 50 Hz 8P IE3

Rated current	: 142 A	Moment of inertia (J)	: 104 sq.ft.lb
LRC	: 6.5	Duty cycle	: Cont.(S1)
Rated torque	: 710 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.00
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 740 rpm	Design	: B

Heating constant

Cooling constant

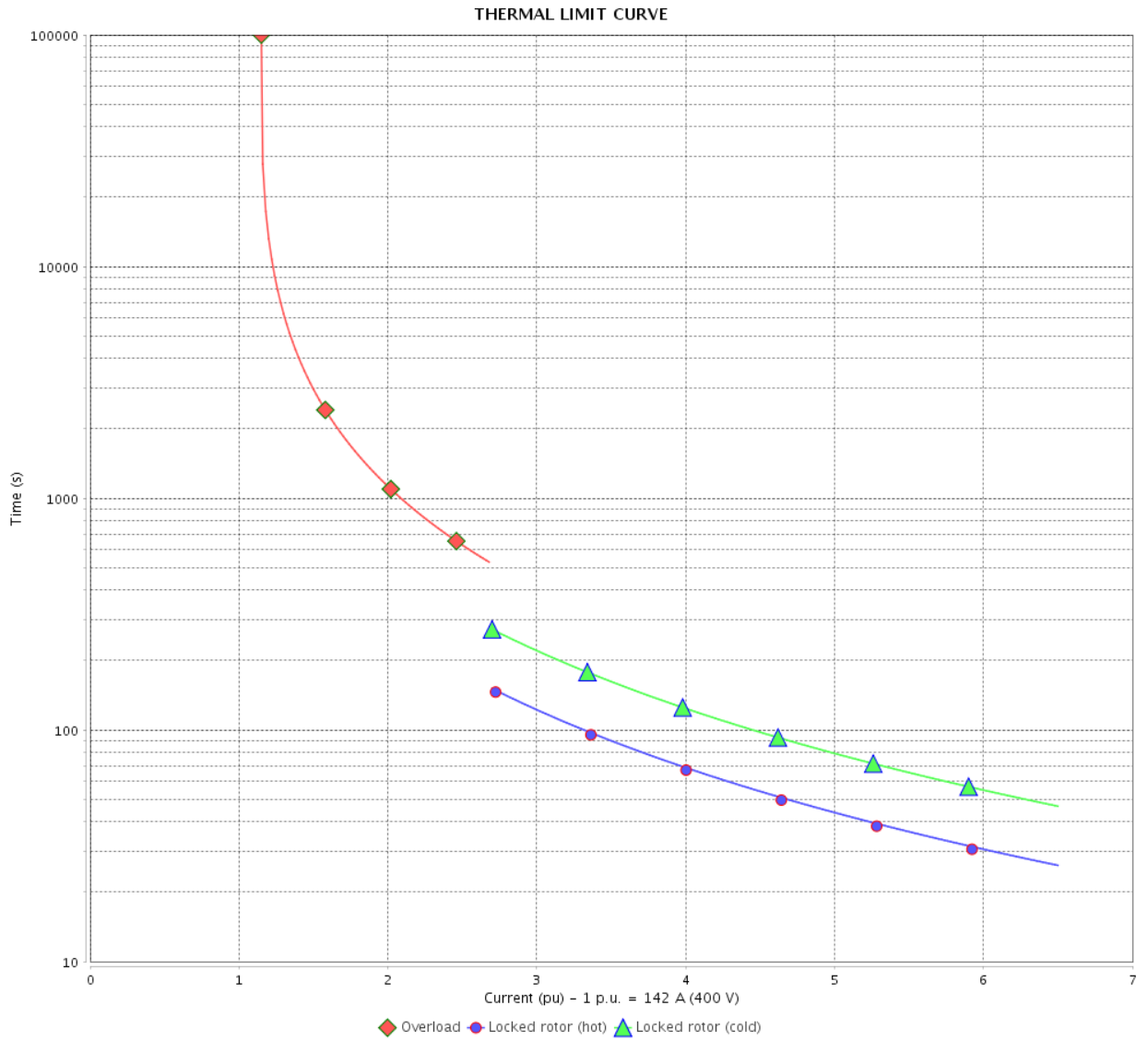
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THERMAL LIMIT CURVE

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Heating constant

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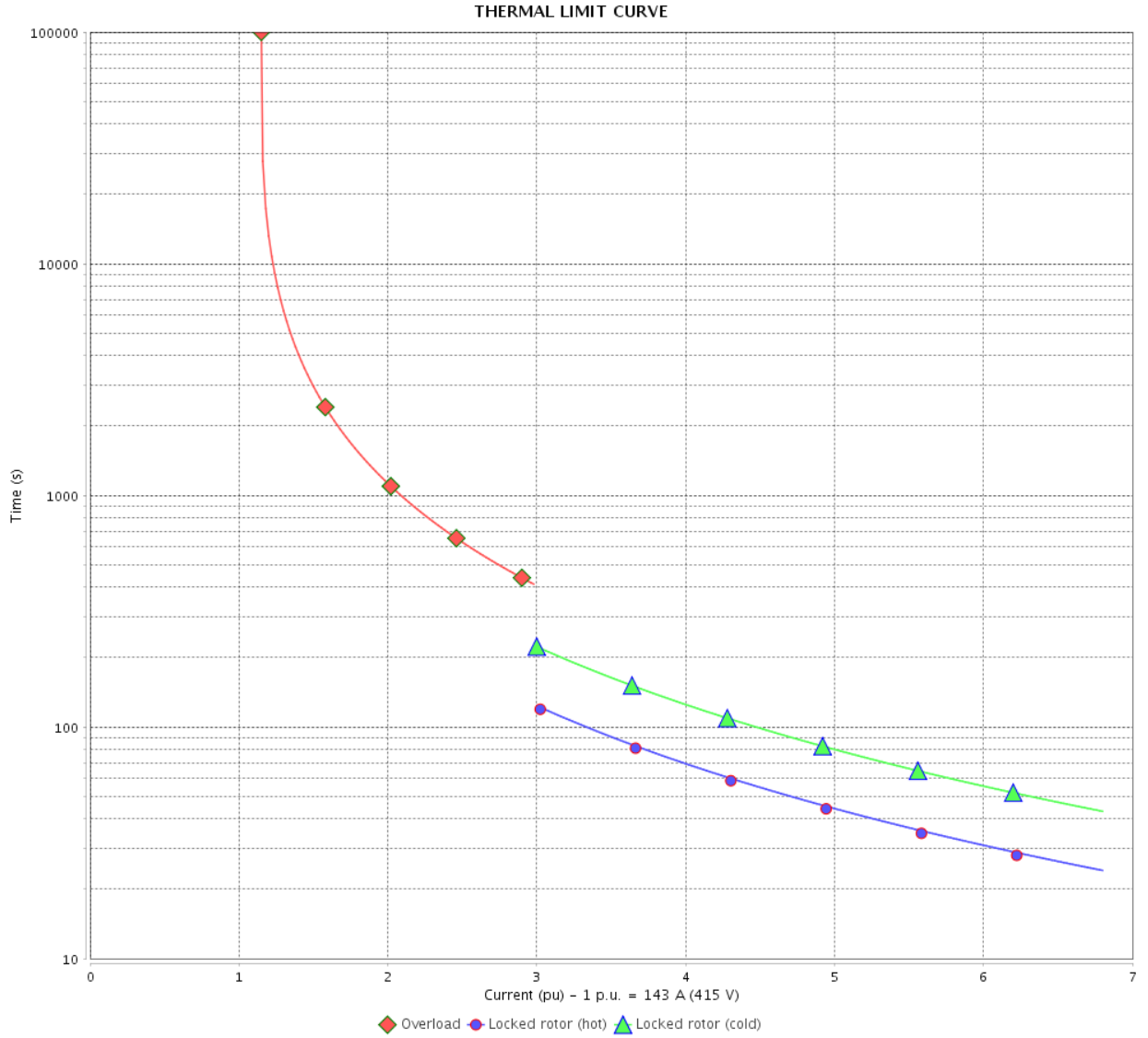
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THERMAL LIMIT CURVE

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Rev.	Changes Summary	Performed	Checked	Date
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Product code : 11717746

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Performance : 380 V 50 Hz 8P IE2

Rated current	: 183 A	Moment of inertia (J)	: 104 sq.ft.lb
LRC	: 4.7	Duty cycle	: Cont.(S1)
Rated torque	: 893 ft.lb	Insulation class	: F
Locked rotor torque	: 140 %	Service factor	: 1.00
Breakdown torque	: 170 %	Temperature rise	: 105 K
Rated speed	: 735 rpm	Design	: B

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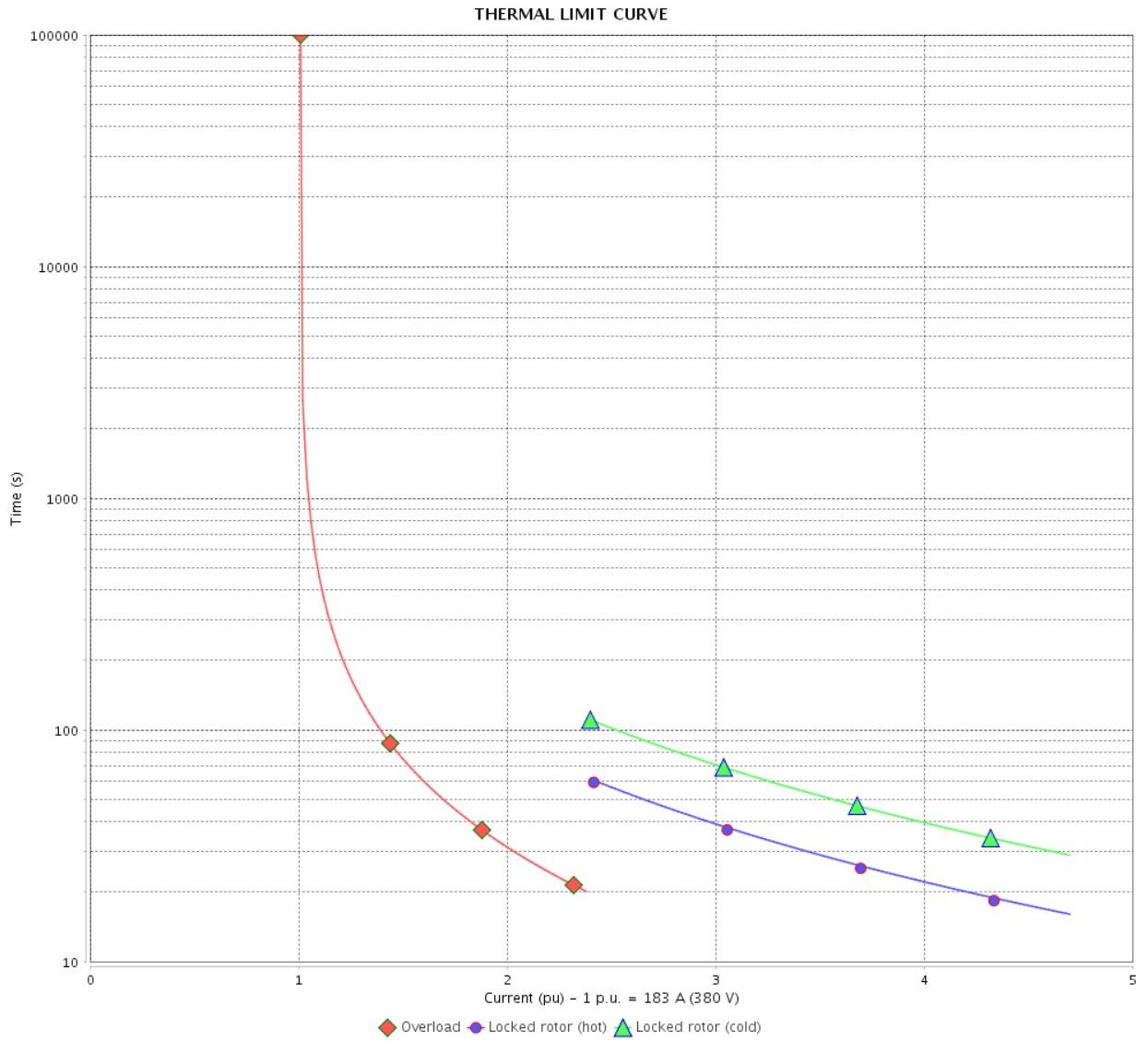
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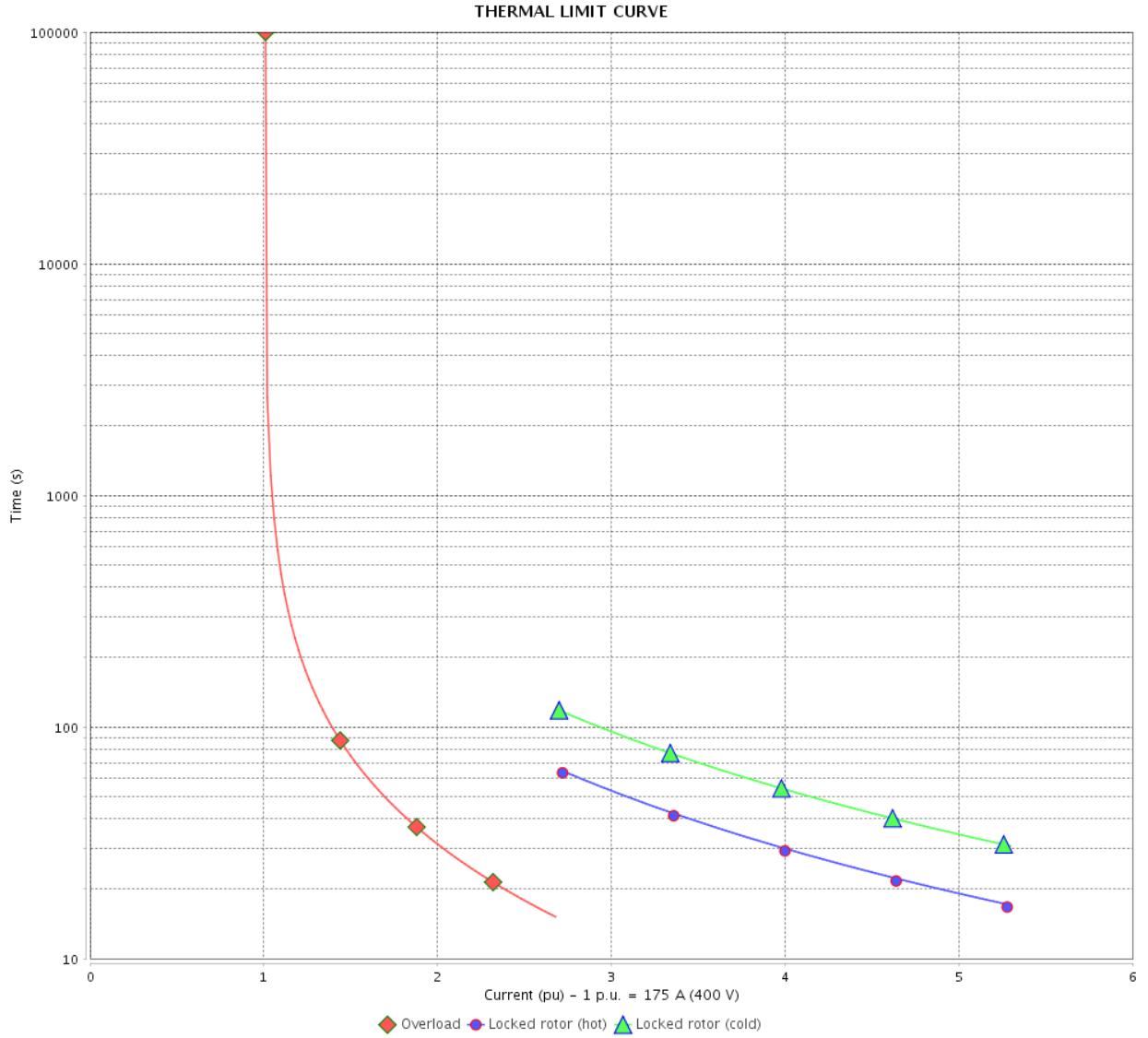
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Date	13/04/2022		26 / 36	

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 : 11717746
Catalog # : 12509ET3G447T-W22

Performance : 415 V 50 Hz 8P IE3

Rated current	: 169 A	Moment of inertia (J)	: 104 sq.ft.lb
LRC	: 5.7	Duty cycle	: Cont.(S1)
Rated torque	: 889 ft.lb	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.00
Breakdown torque	: 210 %	Temperature rise	: 105 K
Rated speed	: 740 rpm	Design	: B

Heating constant

Cooling constant

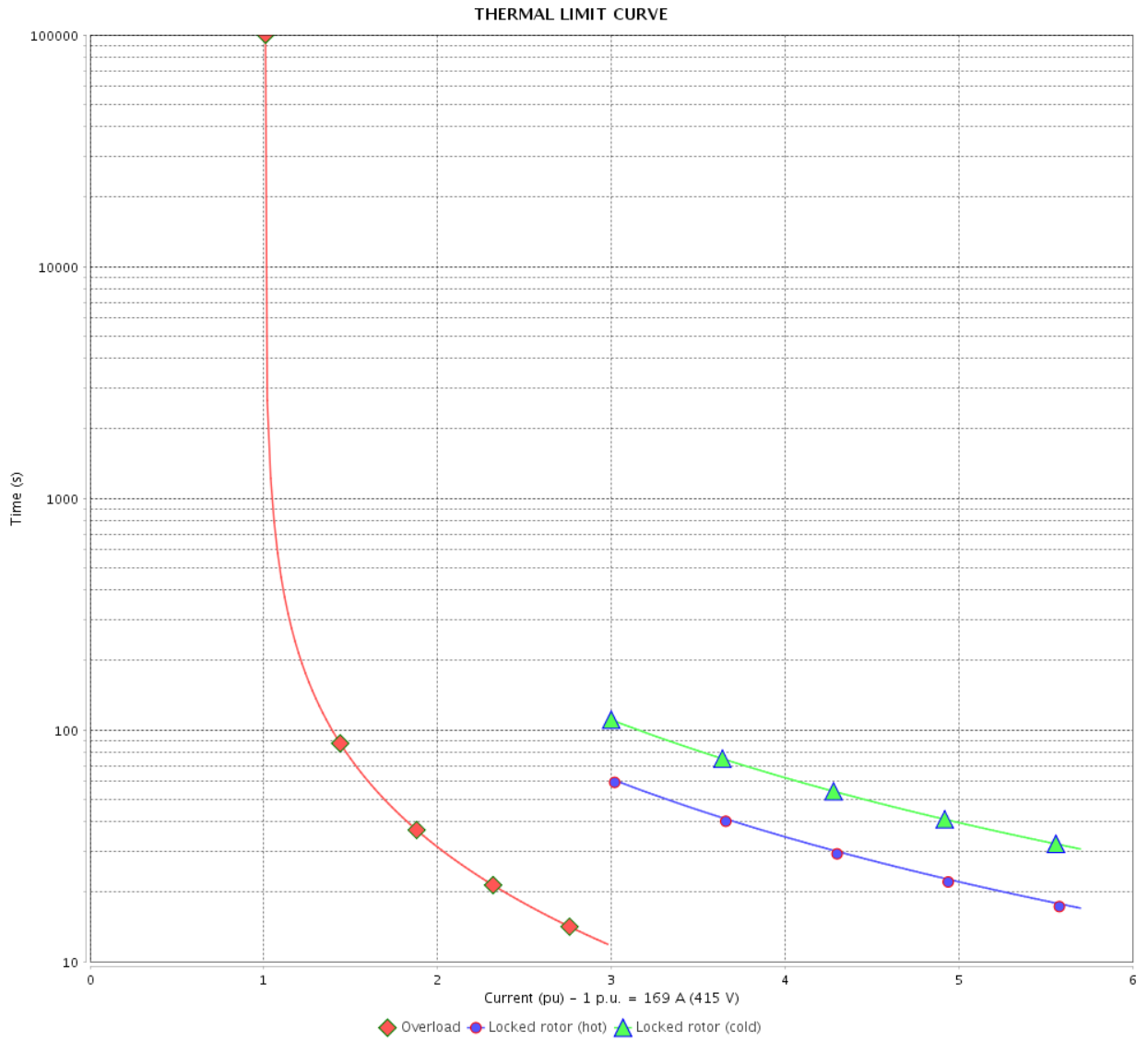
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	13/04/2022		28 / 36	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



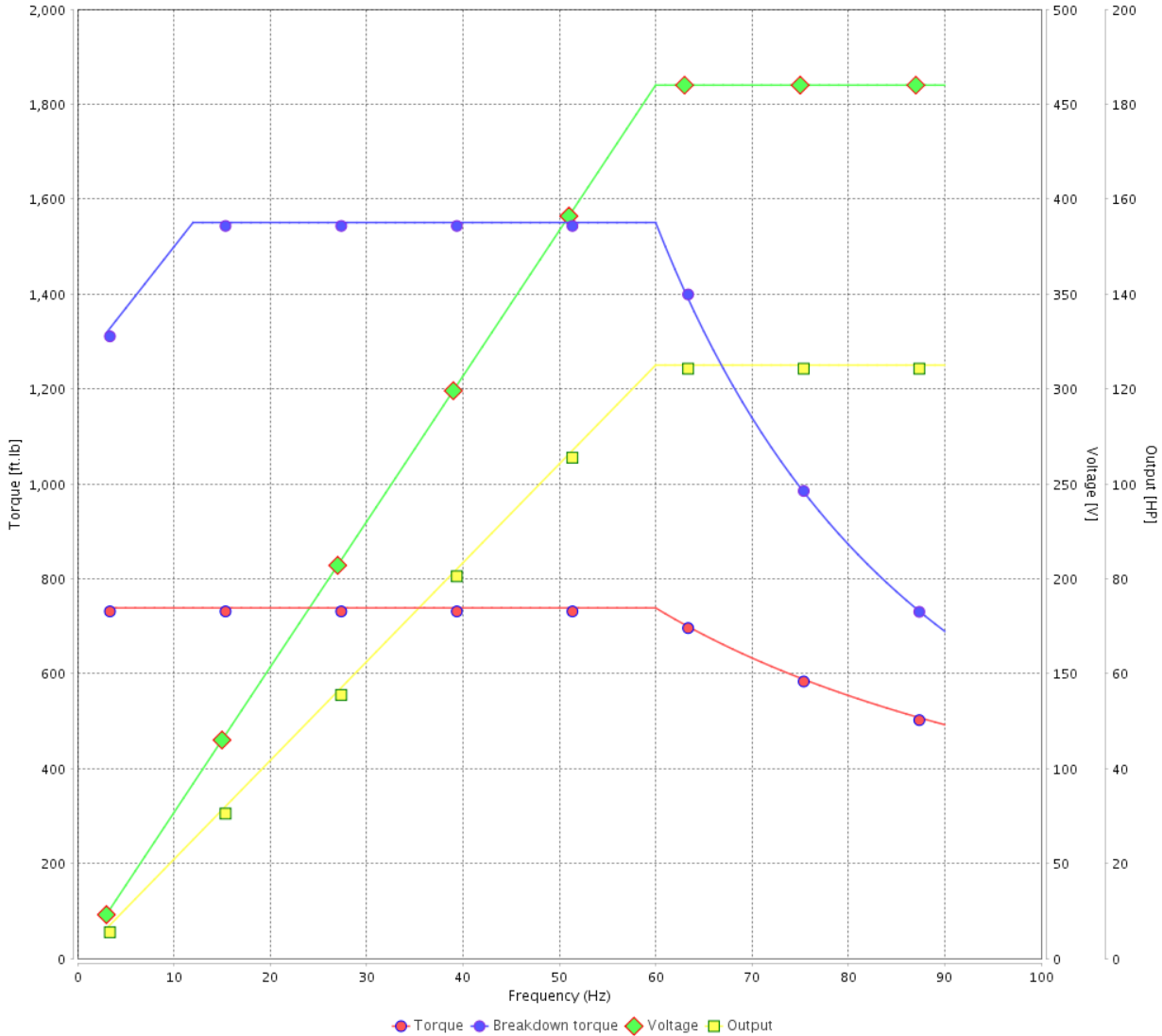
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11717746

Catalog # : 12509ET3G447T-W22

VFD OPERATION CURVE



Performance : 460 V 60 Hz 8P

Rated current : 151 A
 LRC : 6.0
 Rated torque : 738 ft.lb
 Locked rotor torque : 180 %
 Breakdown torque : 210 %
 Rated speed : 890 rpm

Moment of inertia (J) : 104 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

Rev.	Changes Summary	Performed	Checked	Date
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Checked by				
Date				

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

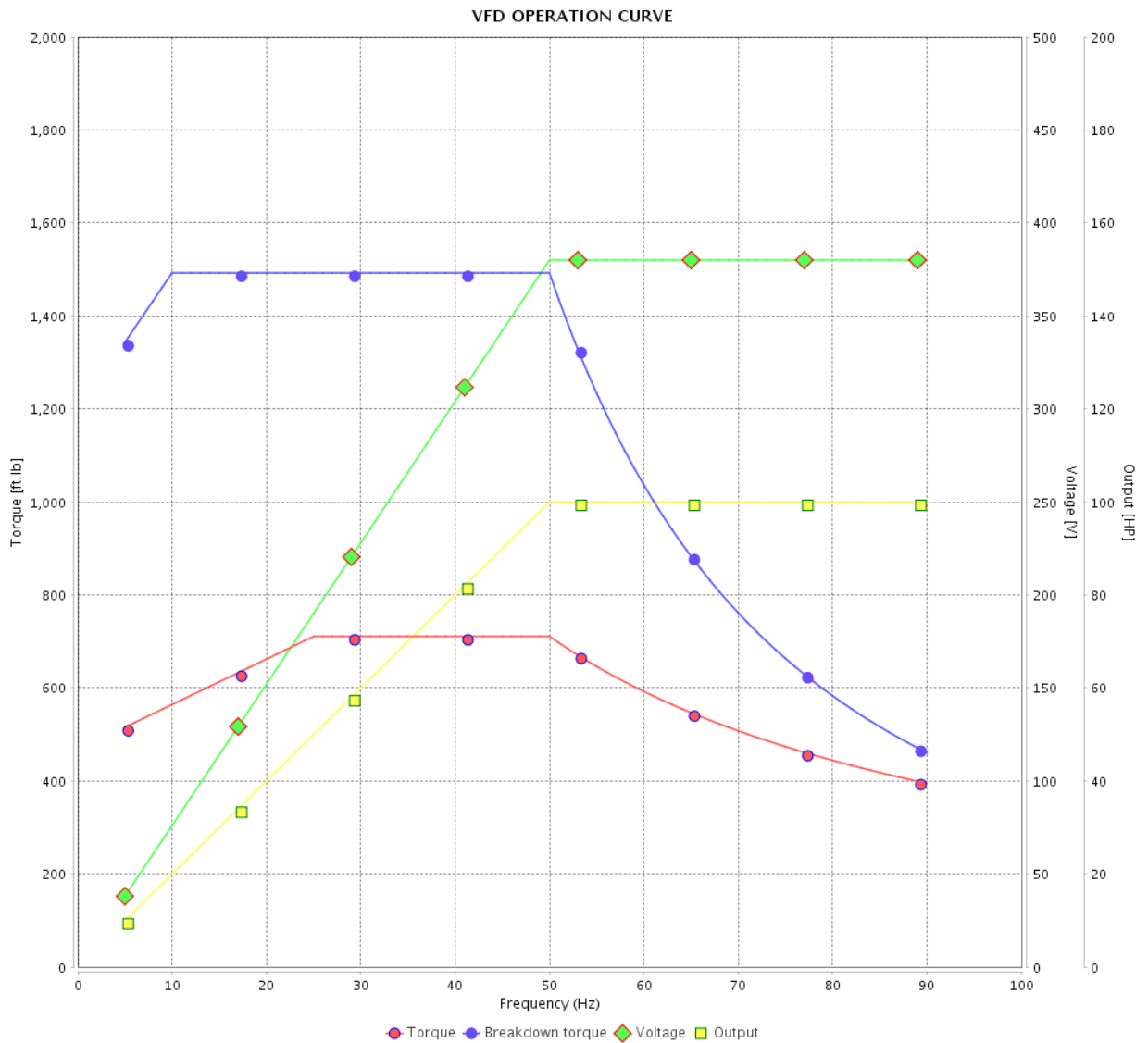


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11717746

Catalog # : 12509ET3G447T-W22



Performance : 380 V 50 Hz 8P IE3

Rated current : 146 A
 LRC : 5.9
 Rated torque : 711 ft.lb
 Locked rotor torque : 180 %
 Breakdown torque : 210 %
 Rated speed : 735 rpm

Moment of inertia (J) : 104 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 31 / 36	Revision
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Date	13/04/2022			

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

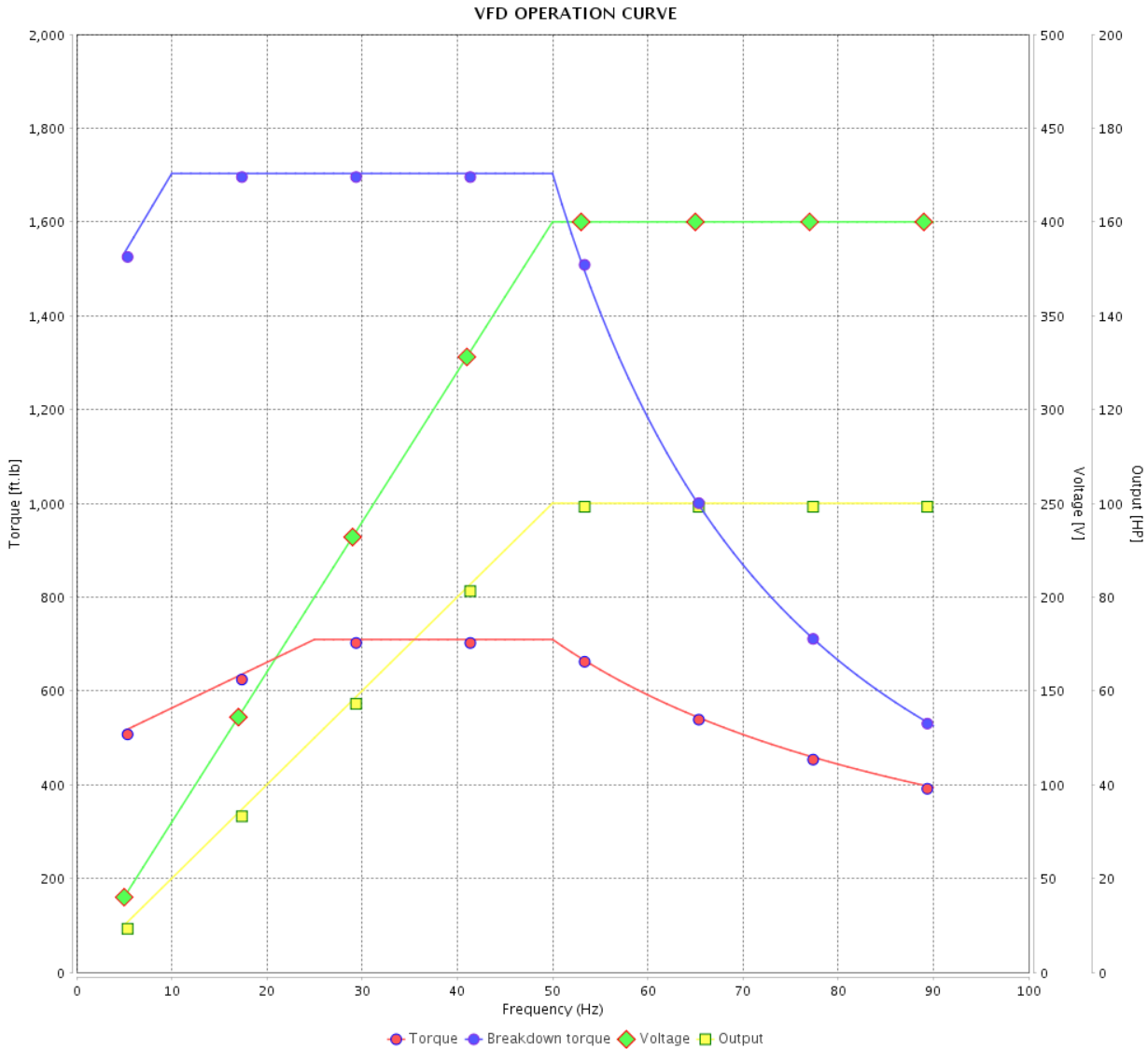


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11717746

Catalog # : 12509ET3G447T-W22



Performance : 400 V 50 Hz 8P IE3

Rated current	: 142 A	Moment of inertia (J)	: 104 sq.ft.lb
LRC	: 6.5	Duty cycle	: Cont.(S1)
Rated torque	: 710 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.00
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 740 rpm	Design	: B

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Performed by			Page 32 / 36	Revision
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

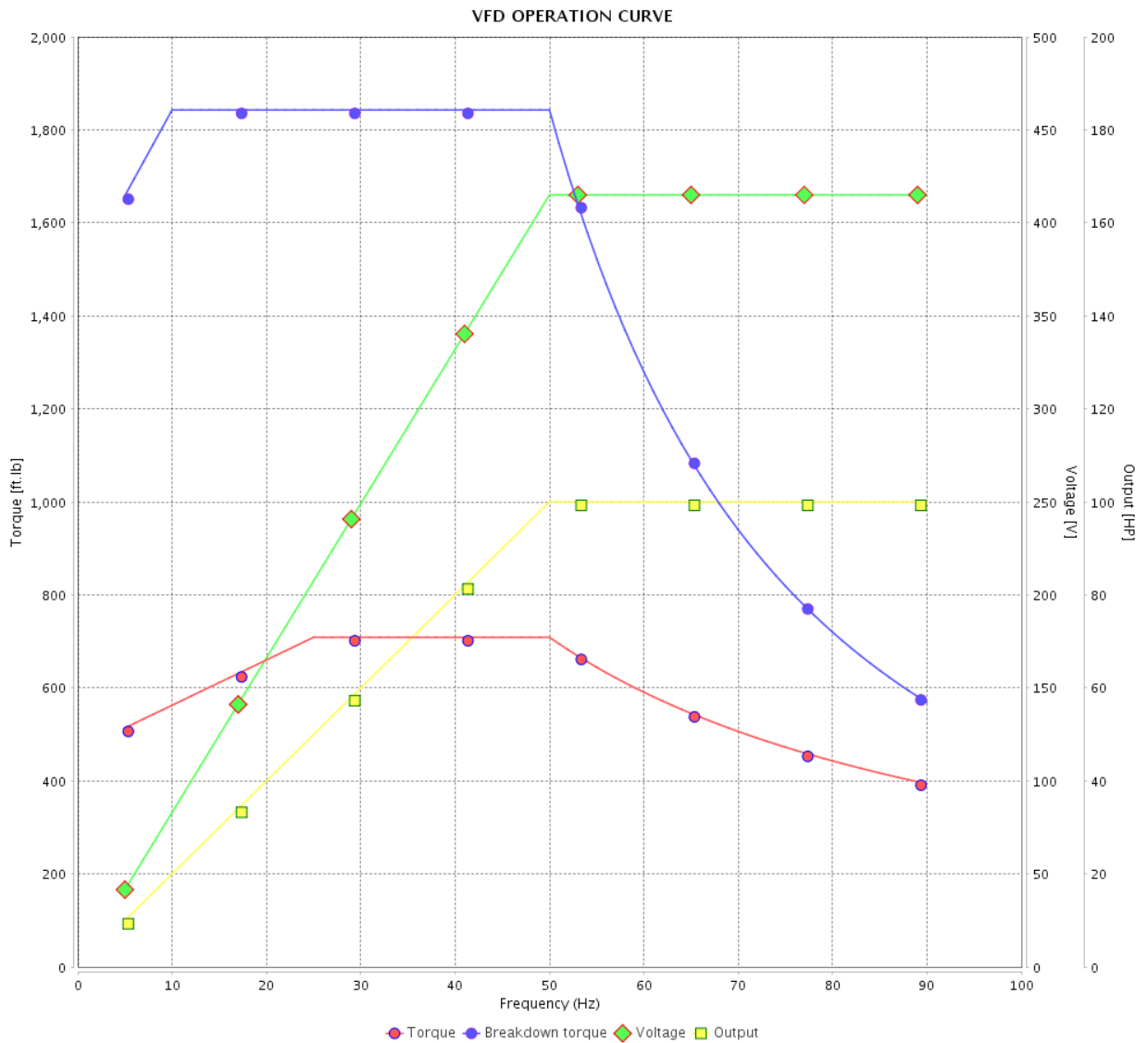


Customer : _____

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11717746

Catalog # : 12509ET3G447T-W22



Performance : 415 V 50 Hz 8P IE3

Rated current : 143 A
 LRC : 6.8
 Rated torque : 709 ft.lb
 Locked rotor torque : 229 %
 Breakdown torque : 260 %
 Rated speed : 740 rpm

Moment of inertia (J) : 104 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



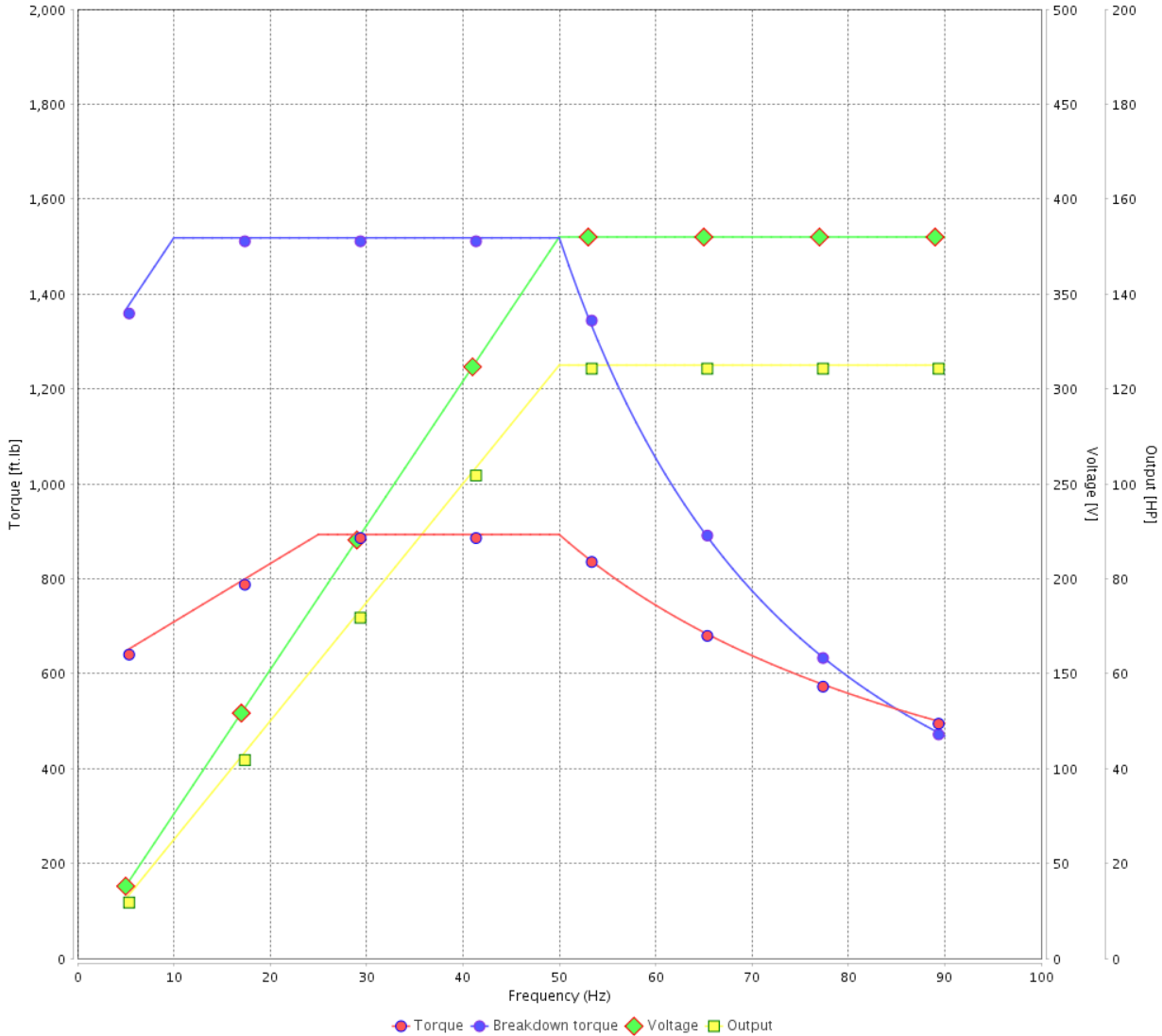
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11717746

Catalog # : 12509ET3G447T-W22

VFD OPERATION CURVE



Performance : 380 V 50 Hz 8P IE2

Rated current	: 183 A	Moment of inertia (J)	: 104 sq.ft.lb
LRC	: 4.7	Duty cycle	: Cont.(S1)
Rated torque	: 893 ft.lb	Insulation class	: F
Locked rotor torque	: 140 %	Service factor	: 1.00
Breakdown torque	: 170 %	Temperature rise	: 105 K
Rated speed	: 735 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
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Checked by				
Date	13/04/2022			

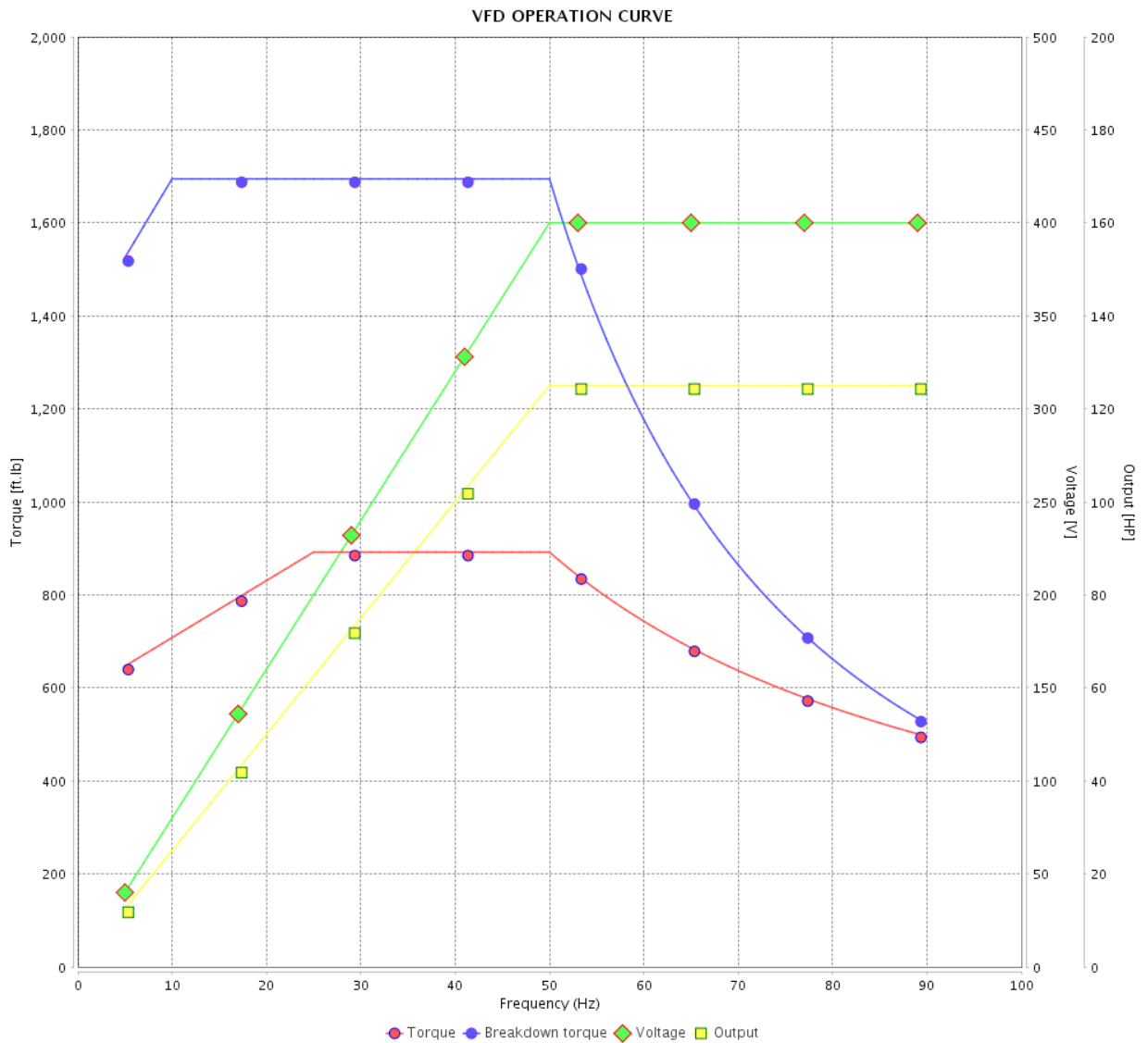
VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase
 Product code : 11717746
 Catalog # : 12509ET3G447T-W22



Performance : 400 V 50 Hz 8P IE2

Rated current : 175 A	Moment of inertia (J) : 104 sq.ft.lb
LRC : 5.3	Duty cycle : Cont.(S1)
Rated torque : 892 ft.lb	Insulation class : F
Locked rotor torque : 160 %	Service factor : 1.00
Breakdown torque : 190 %	Temperature rise : 105 K
Rated speed : 740 rpm	Design : B

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Date	13/04/2022			

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

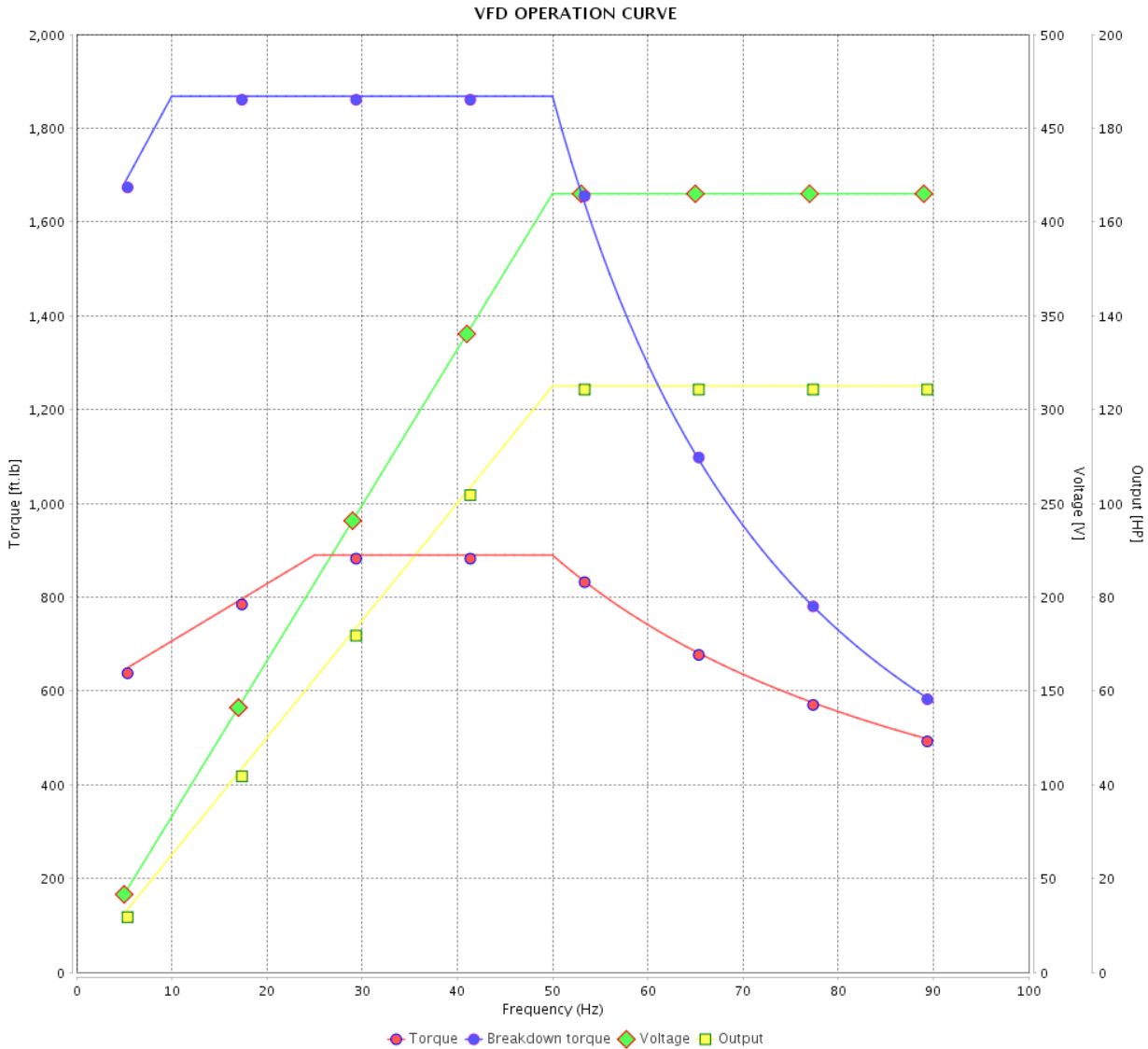


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11717746

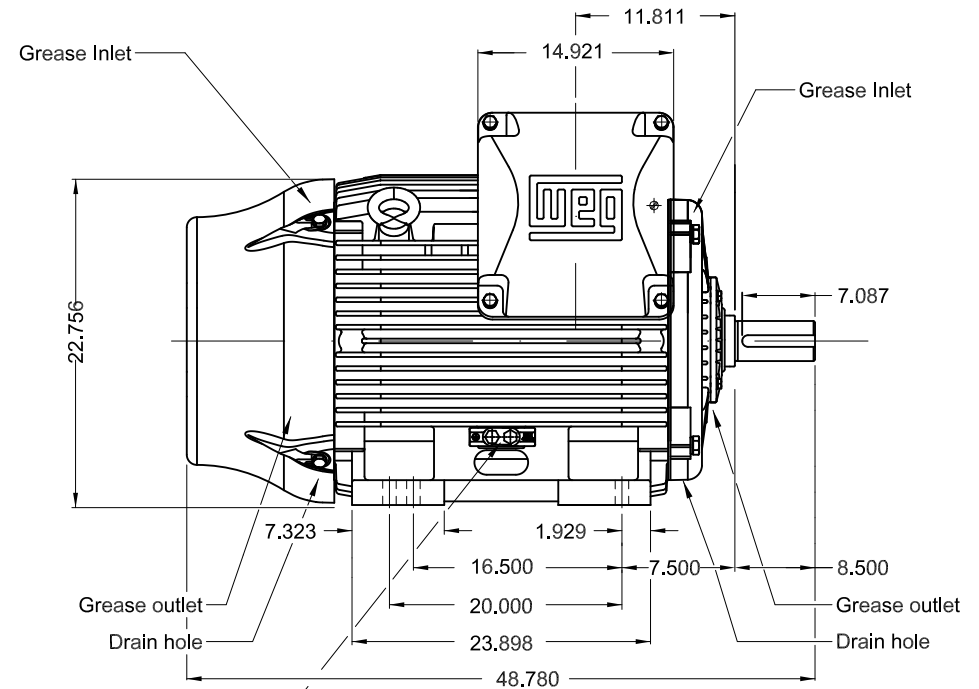
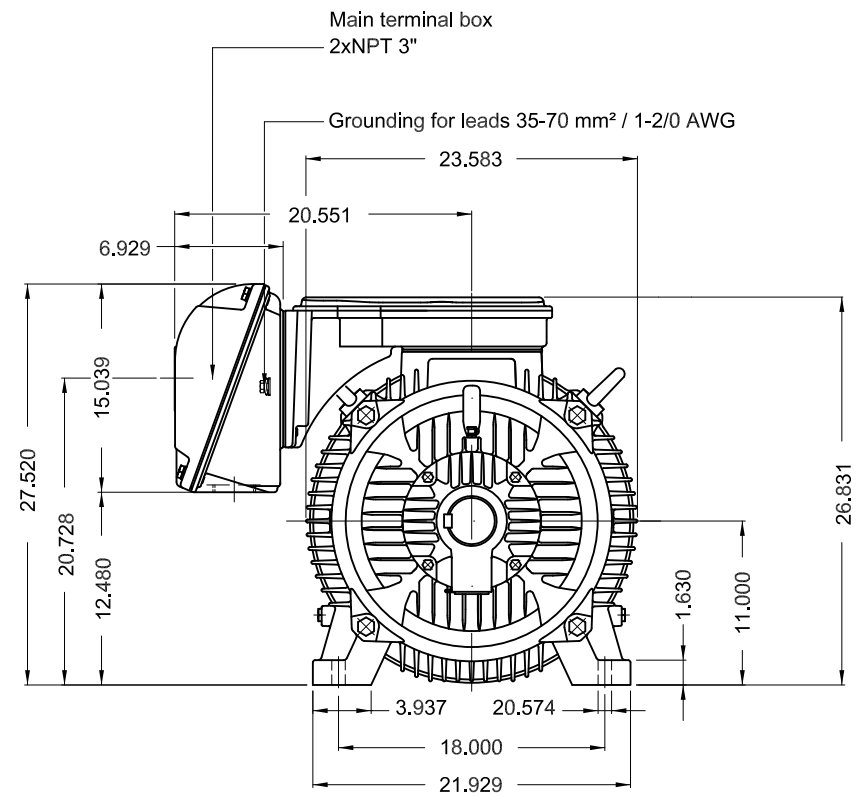
Catalog # : 12509ET3G447T-W22



Performance : 415 V 50 Hz 8P IE3

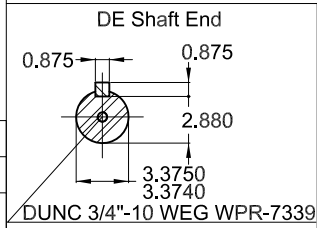
Rated current	: 169 A	Moment of inertia (J)	: 104 sq.ft.lb
LRC	: 5.7	Duty cycle	: Cont.(S1)
Rated torque	: 889 ft.lb	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.00
Breakdown torque	: 210 %	Temperature rise	: 105 K
Rated speed	: 740 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
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Date	13/04/2022			



Grounding for leads 25-185 mm² / 3AWG-350MCM

Color RAL 5009
 Painting plan 203A
 Mounting B3R(D)



125 HP 08 Poles 60 Hz

A

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	PIRWUSER	THREE PH. MOTOR W22 PREM. EFF.					
CHECKED		FRAME 445/7T IP55 TEFC					
RELEASED							
REL DT.	WMO	Jaragua do Sul	Product Engineering				

PREVIEW
 WDD



SHEET 1 / 1

Dimensions in inches

XME A3

MADE IN MEXICO
11717746



FOR SAFE AREA
Mod.TE1BFOXON
CC029A

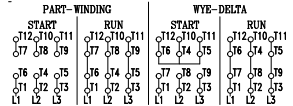


Class I, Div 2, Gr A, B, C and D - T3
Class I, Zone 2, IIC - T3
Class II, Div 2, Gr F and G - T3C
For use on PWM: Gr. A, B, C, D and F,
VT 1000:1, CT 20:1, 1.00SF - T3

MODEL 12509ET3G447T-W22

Inverter Duty Motor
Severe Duty

PH3	60Hz	Fr. 445/7T	1000m.a.s.l.	IP55	TEFC	2038lb
V 460				A 151		
HP 125				kW 90		
SF 1.15				SFA 174		
RPM 889				PF 0.79		
AMB 40°C				INS cl. F DT80K	NEMA NOM EFF 94.5%	
DUTY CONT.				DES B Code G		



- 6319-C3 (45g)
- 6316-C3 (34g)

MOBIL POLYREX EM (17000h)