

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :								
Product line		: W40 NEMA Premium Efficiency Three-Phase			Product code :		13621119	
					Catalog # :		30012OT3G447/9T-W40	
Frame : 447/9T				Cooling method : IC01 - ODP				
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 : 2340 lb				
Protection degree : IP23				Moment of inertia (J) : 131 sq.ft.lb				
Design : A								
Output [HP]	300	220	220	220	250	250	250	
Poles	6	6	6	6	6	6	6	
Frequency [Hz]	60	50	50	50	50	50	50	
Rated voltage [V]	460	380	400	415	380	400	415	
Rated current [A]	365	326	326	328	372	365	365	
L. R. Amperes [A]	2446	2380	2510	2657	2381	2482	2628	
LRC [A]	6.7x(Code H)	7.3x(Code J)	7.7x(Code J)	8.1x(Code K)	6.4x(Code G)	6.8x(Code H)	7.2x(Code J)	
No load current [A]	174	171	193	211	171	193	211	
Rated speed [RPM]	1190	990	990	990	990	985	990	
Slip [%]	0.83	1.00	1.00	1.00	1.00	1.50	1.00	
Rated torque [ft.lb]	1320	1170	1170	1170	1330	1330	1330	
Locked rotor torque [%]	240	260	290	320	220	250	280	
Breakdown torque [%]	280	310	360	390	260	300	330	
Service factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Temperature rise	105 K	80 K	80 K	80 K	105 K	105 K	105 K	
Locked rotor time	32s (cold)	21s (cold)	21s (cold)	21s (cold)	21s (cold)	21s (cold)	21s (cold)	
	18s (hot)	12s (hot)	12s (hot)	12s (hot)	12s (hot)	12s (hot)	12s (hot)	
Noise level ²	79.0 dB(A)	79.0 dB(A)	79.0 dB(A)	79.0 dB(A)	79.0 dB(A)	79.0 dB(A)	79.0 dB(A)	
Efficiency (%)	25%							
	50%	95.4	94.9	94.9	94.7	95.0	95.0	
	75%	95.8	95.1	95.3	95.3	95.0	95.4	
	100%	95.8	95.6	95.6	95.6	94.5	95.4	
Power Factor	25%							
	50%	0.62	0.58	0.52	0.48	0.63	0.58	
	75%	0.73	0.71	0.66	0.62	0.75	0.70	
	100%	0.79	0.78	0.74	0.71	0.80	0.77	
Bearing type	Drive end		Non drive end		Foundation loads			
	: 6319 C3		: 6314 C3		Max. traction : 10497 lb			
Sealing	: Without		: Without		Max. compression : 12836 lb			
	: Bearing Seal		: Bearing Seal					
Lubrication interval	: 20000 h		: 20000 h					
Lubricant amount	: 45 g		: 27 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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Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermistor - 2 wires	1 x Phase	155 °C

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TORQUE AND CURRENT VS SPEED CURVE



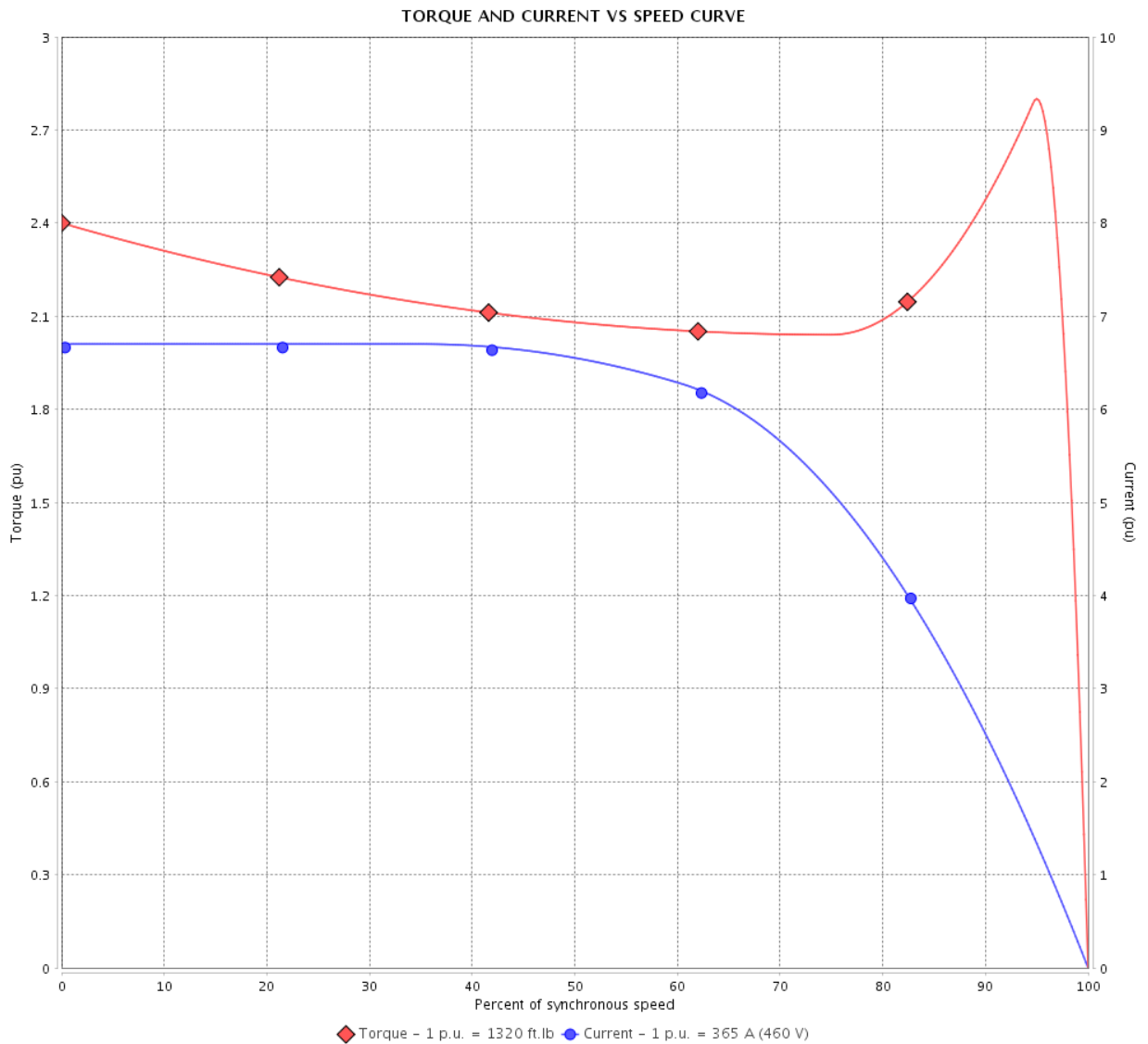
Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W40 NEMA Premium Efficiency
Three-Phase

Product code : 13621119

Catalog # : 30012OT3G447/9T-W40



Performance : 460 V 60 Hz 6P

Rated current	: 365 A	Moment of inertia (J)	: 131 sq.ft.lb
LRC	: 6.7	Duty cycle	: Cont.(S1)
Rated torque	: 1320 ft.lb	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.00
Breakdown torque	: 280 %	Temperature rise	: 105 K
Rated speed	: 1190 rpm	Design	: A

Locked rotor time : 32s (cold) 18s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



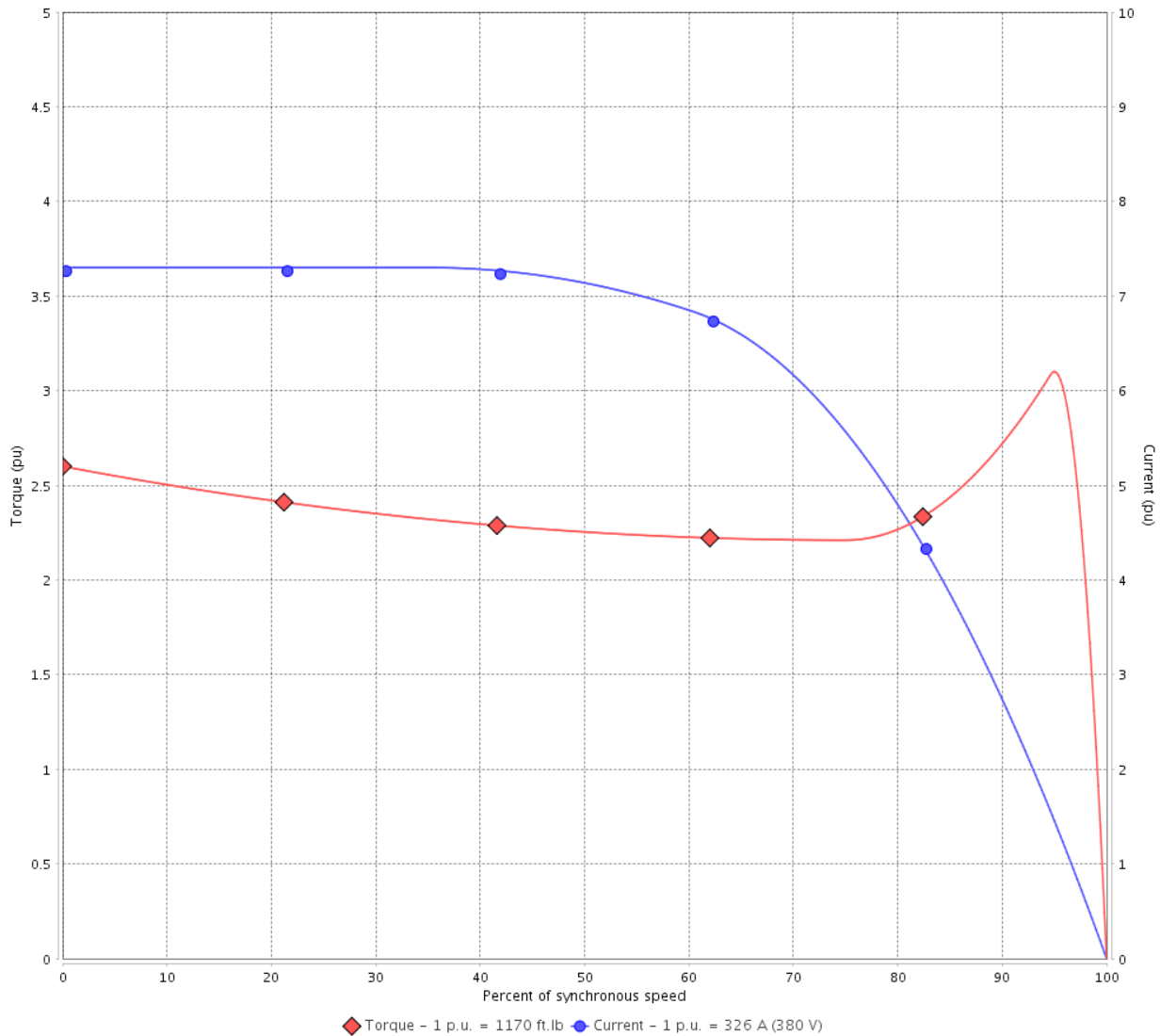
Customer :

Product line : W40 NEMA Premium Efficiency
Three-Phase

Product code : 13621119

Catalog # : 30012OT3G447/9T-W40

TORQUE AND CURRENT VS SPEED CURVE



Performance : 380 V 50 Hz 6P IE3

Rated current	: 326 A	Moment of inertia (J)	: 131 sq.ft.lb
LRC	: 7.3	Duty cycle	: Cont.(S1)
Rated torque	: 1170 ft.lb	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.00
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 990 rpm	Design	: A

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

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TORQUE AND CURRENT VS SPEED CURVE



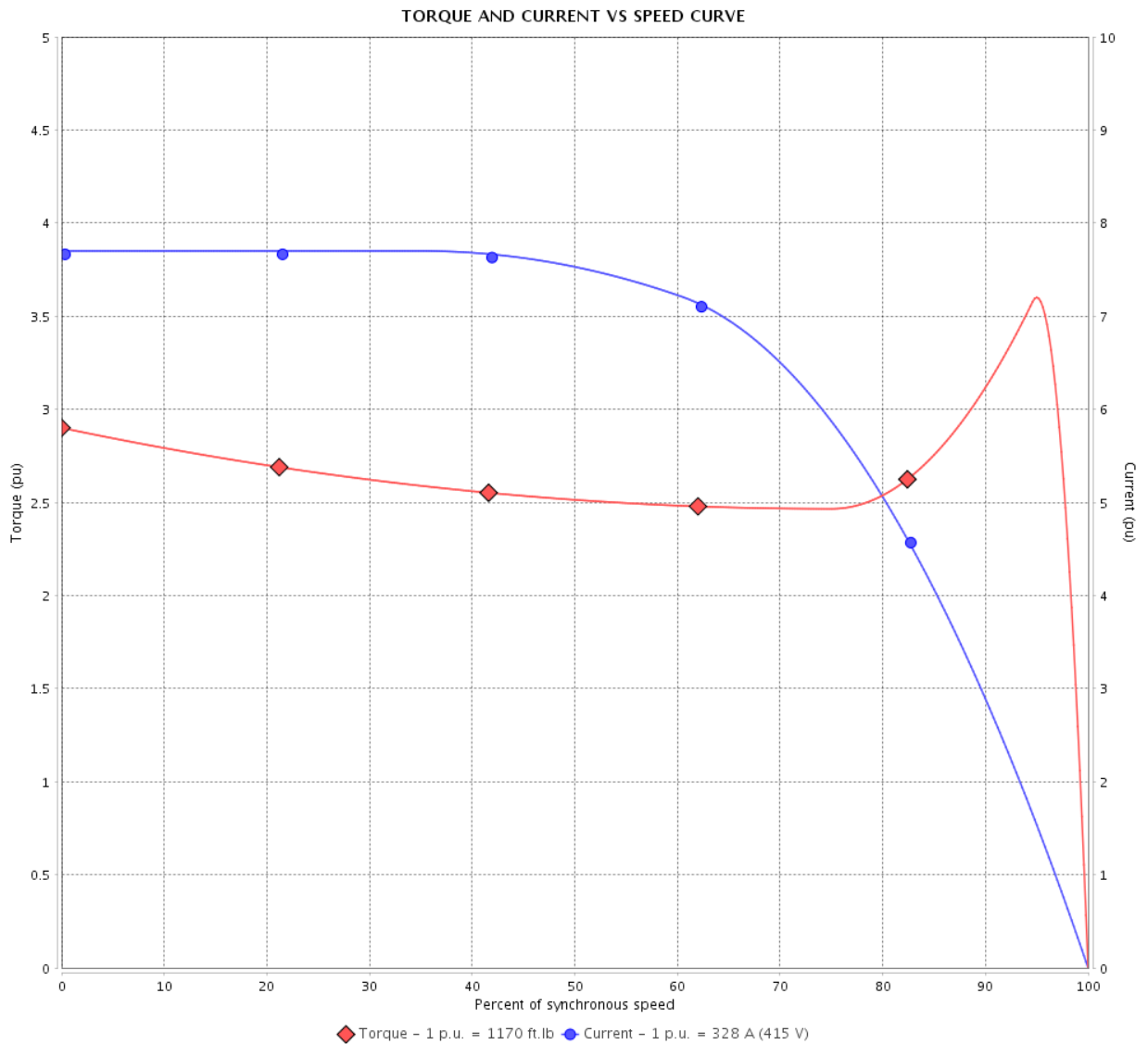
Three Phase Induction Motor - Squirrel Cage

Customer :

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Three-Phase

Product code : 13621119

Catalog # : 30012OT3G447/9T-W40



Performance : 415 V 50 Hz 6P IE3

Rated current	: 328 A	Moment of inertia (J)	: 131 sq.ft.lb
LRC	: 8.1	Duty cycle	: Cont.(S1)
Rated torque	: 1170 ft.lb	Insulation class	: F
Locked rotor torque	: 320 %	Service factor	: 1.00
Breakdown torque	: 390 %	Temperature rise	: 80 K
Rated speed	: 990 rpm	Design	: A

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

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



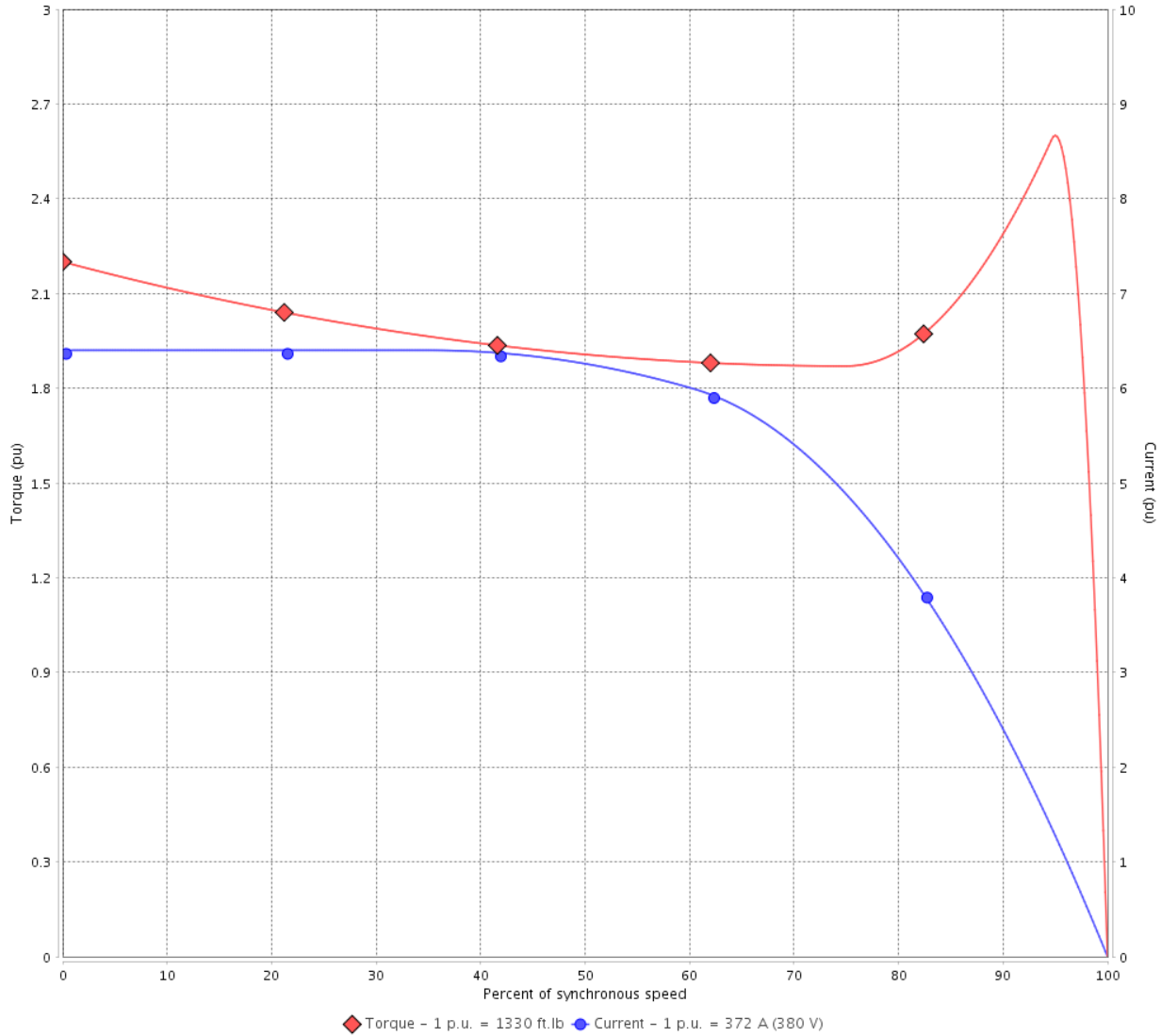
Customer :

Product line : W40 NEMA Premium Efficiency
Three-Phase

Product code : 13621119

Catalog # : 30012OT3G447/9T-W40

TORQUE AND CURRENT VS SPEED CURVE



Performance : 380 V 50 Hz 6P IE1

Rated current	: 372 A	Moment of inertia (J)	: 131 sq.ft.lb
LRC	: 6.4	Duty cycle	: Cont.(S1)
Rated torque	: 1330 ft.lb	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.00
Breakdown torque	: 260 %	Temperature rise	: 105 K
Rated speed	: 990 rpm	Design	: A

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

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TORQUE AND CURRENT VS SPEED CURVE



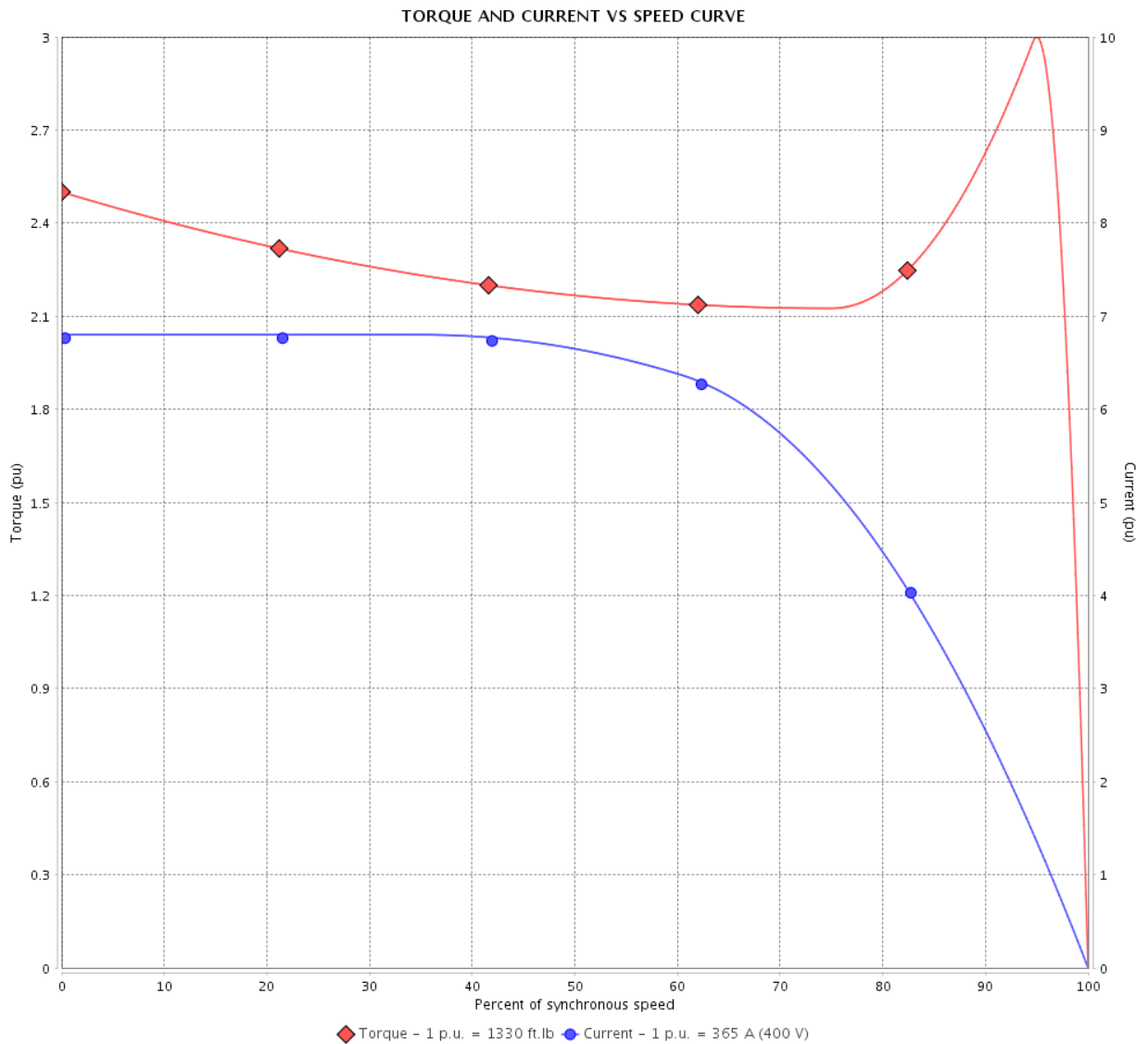
Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W40 NEMA Premium Efficiency
Three-Phase

Product code : 13621119

Catalog # : 30012OT3G447/9T-W40



Performance : 400 V 50 Hz 6P IE2

Rated current	: 365 A	Moment of inertia (J)	: 131 sq.ft.lb
LRC	: 6.8	Duty cycle	: Cont.(S1)
Rated torque	: 1330 ft.lb	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.00
Breakdown torque	: 300 %	Temperature rise	: 105 K
Rated speed	: 985 rpm	Design	: A

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

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



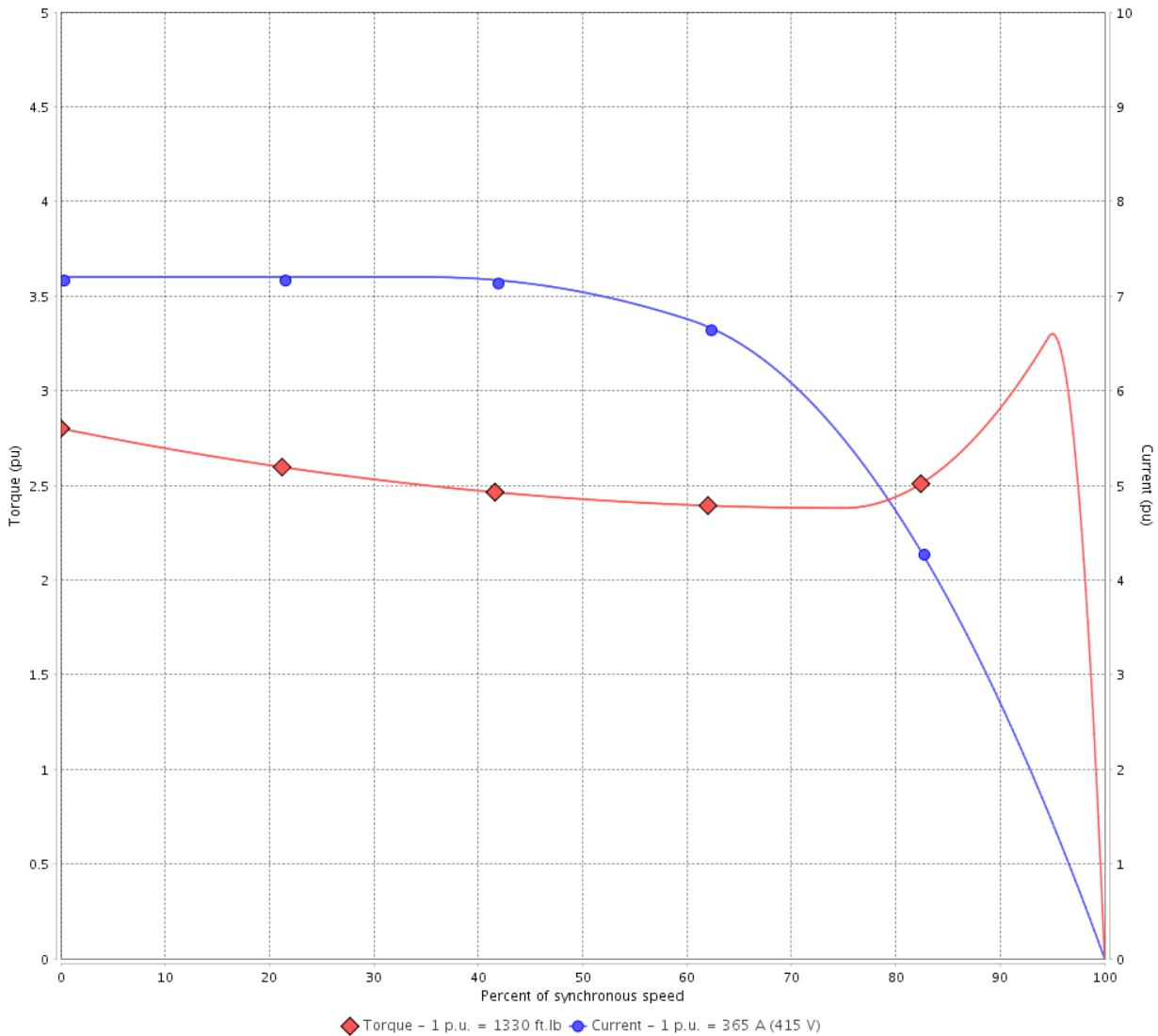
Customer :

Product line : W40 NEMA Premium Efficiency
Three-Phase

Product code : 13621119

Catalog # : 30012OT3G447/9T-W40

TORQUE AND CURRENT VS SPEED CURVE



Performance : 415 V 50 Hz 6P IE2

Rated current	: 365 A	Moment of inertia (J)	: 131 sq.ft.lb
LRC	: 7.2	Duty cycle	: Cont.(S1)
Rated torque	: 1330 ft.lb	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	: 1.00
Breakdown torque	: 330 %	Temperature rise	: 105 K
Rated speed	: 990 rpm	Design	: A

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

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Three Phase Induction Motor - Squirrel Cage

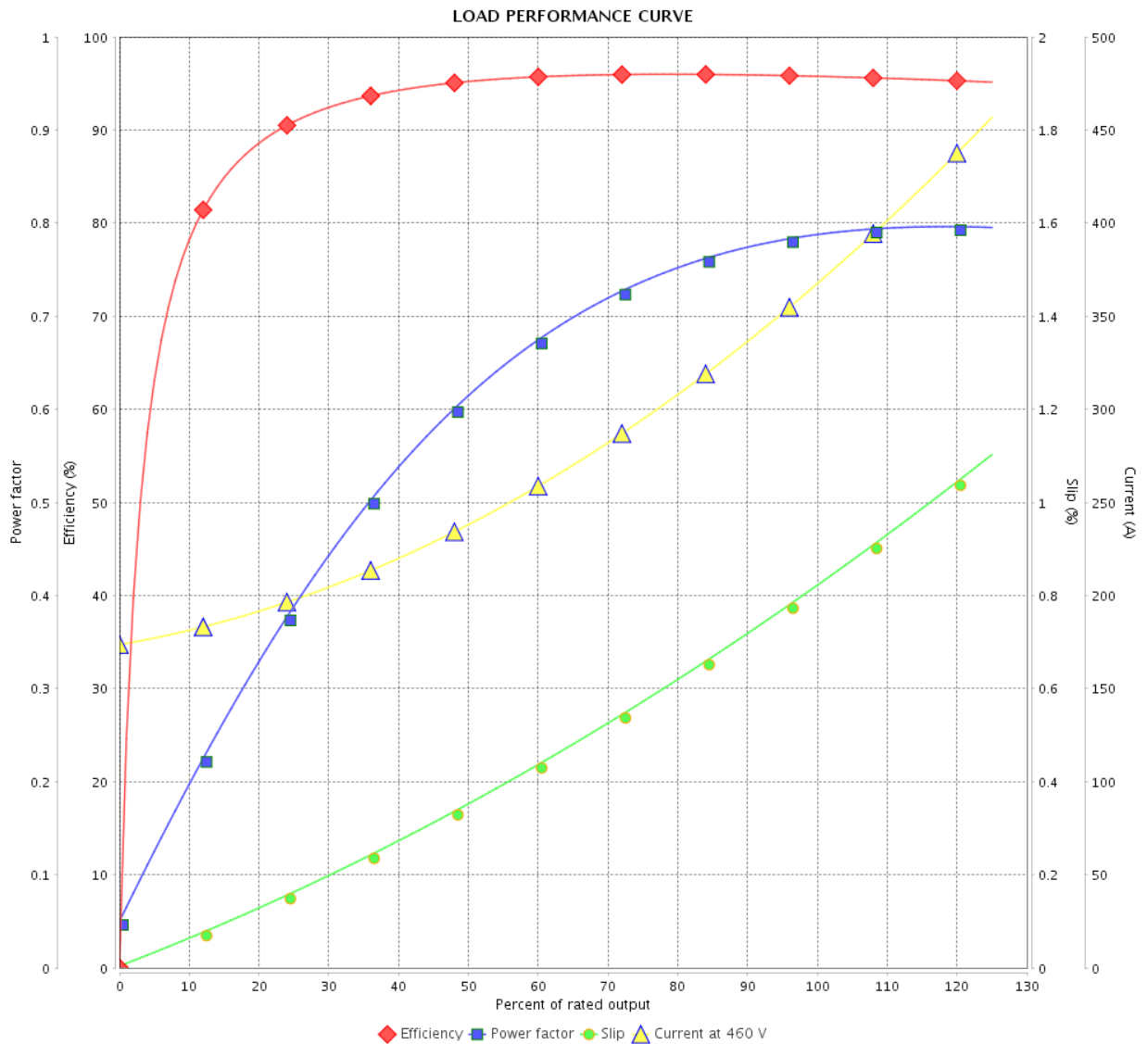


Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 13621119

Catalog # : 30012OT3G447/9T-W40



Performance : 460 V 60 Hz 6P

Rated current : 365 A
 LRC : 6.7
 Rated torque : 1320 ft.lb
 Locked rotor torque : 240 %
 Breakdown torque : 280 %
 Rated speed : 1190 rpm

Moment of inertia (J) : 131 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : A

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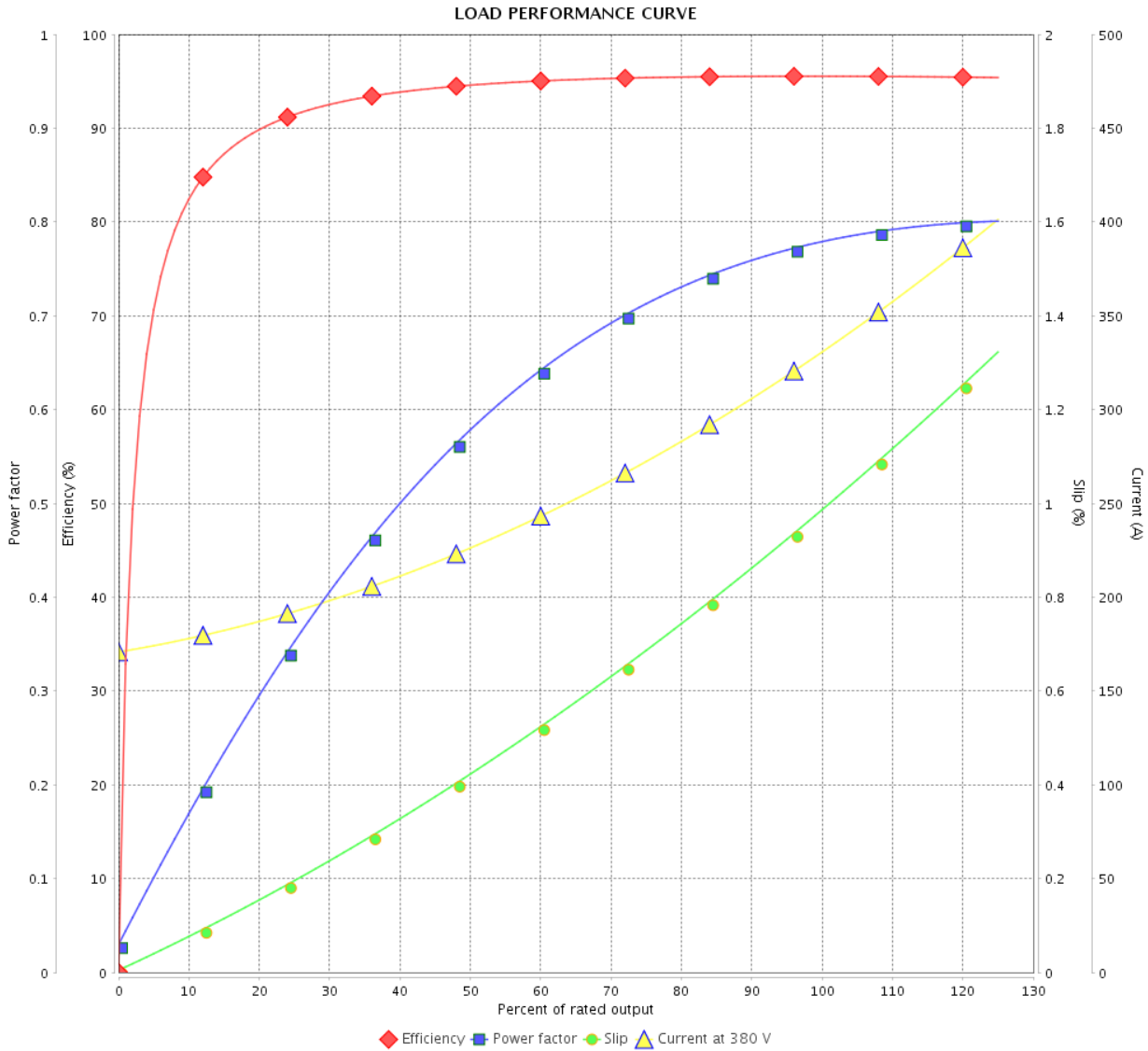


Customer :

Product line : W40 NEMA Premium Efficiency
Three-Phase

Product code : 13621119

Catalog # : 30012OT3G447/9T-W40



Performance : 380 V 50 Hz 6P IE3

Rated current : 326 A
 LRC : 7.3
 Rated torque : 1170 ft.lb
 Locked rotor torque : 260 %
 Breakdown torque : 310 %
 Rated speed : 990 rpm

Moment of inertia (J) : 131 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : A

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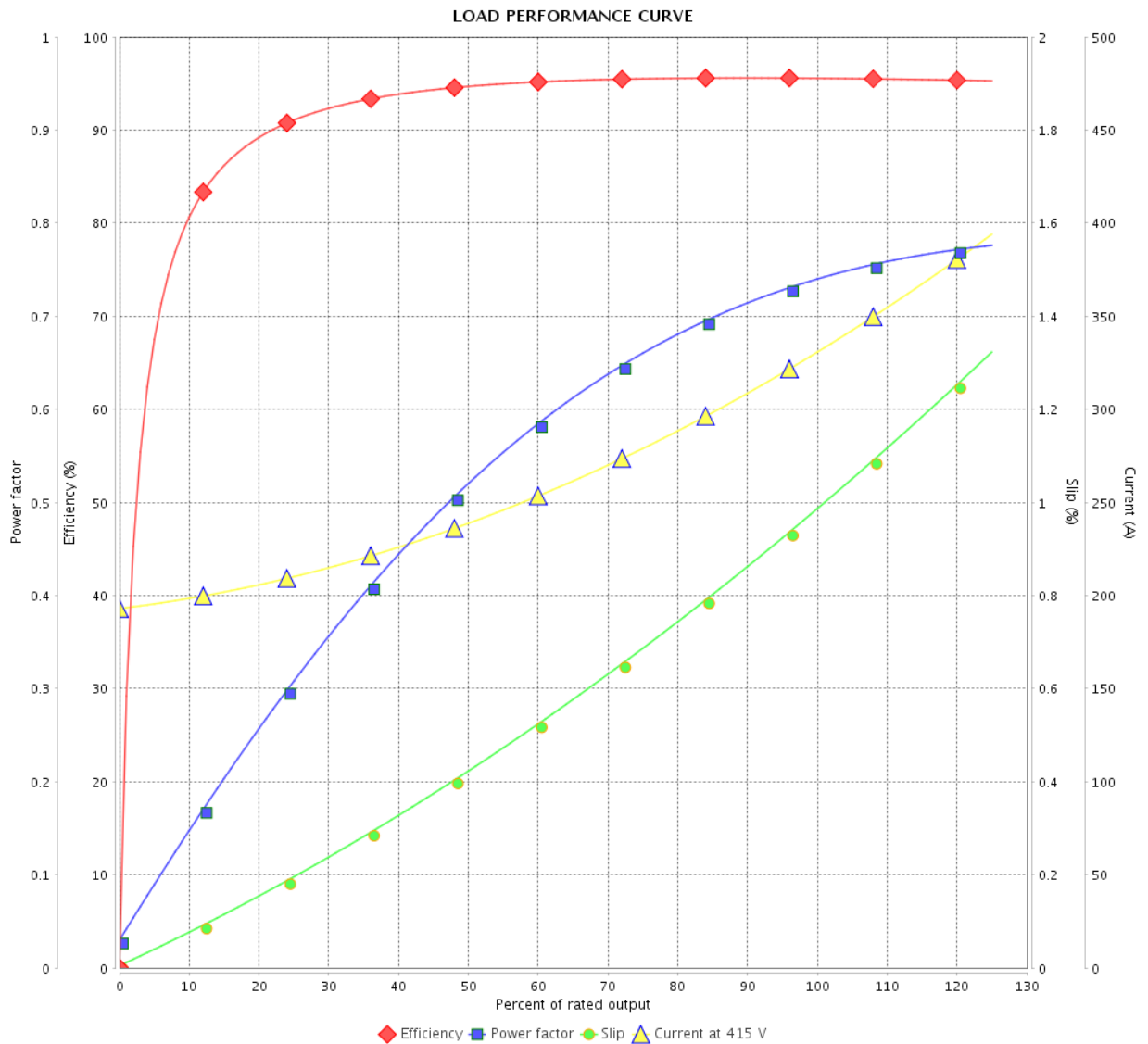


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Product code : 13621119

Catalog # : 30012OT3G447/9T-W40



Performance : 415 V 50 Hz 6P IE3

Rated current : 328 A
 LRC : 8.1
 Rated torque : 1170 ft.lb
 Locked rotor torque : 320 %
 Breakdown torque : 390 %
 Rated speed : 990 rpm

Moment of inertia (J) : 131 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : A

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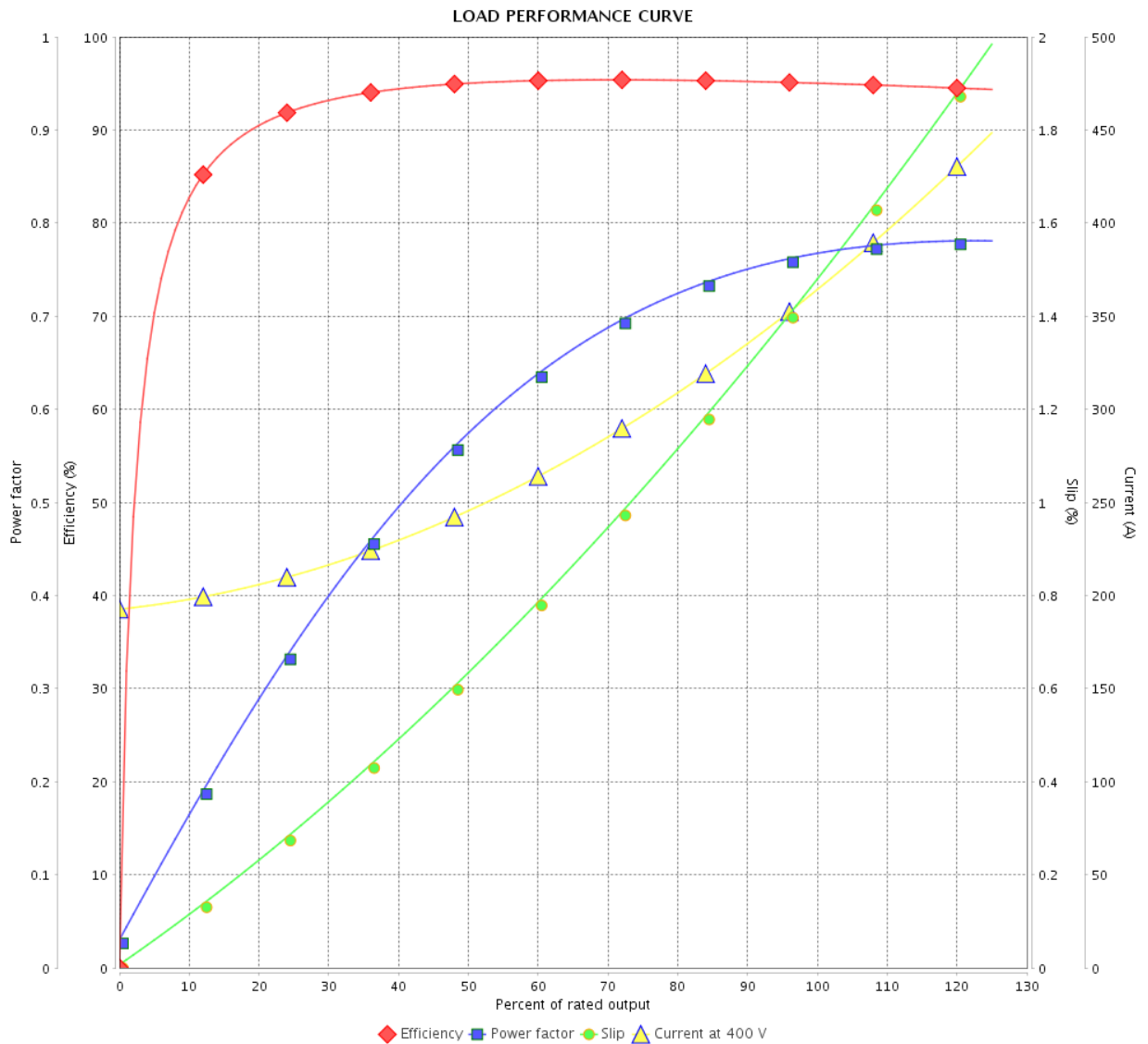


Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 13621119

Catalog # : 30012OT3G447/9T-W40



Performance : 400 V 50 Hz 6P IE2

Rated current : 365 A
 LRC : 6.8
 Rated torque : 1330 ft.lb
 Locked rotor torque : 250 %
 Breakdown torque : 300 %
 Rated speed : 985 rpm

Moment of inertia (J) : 131 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : A

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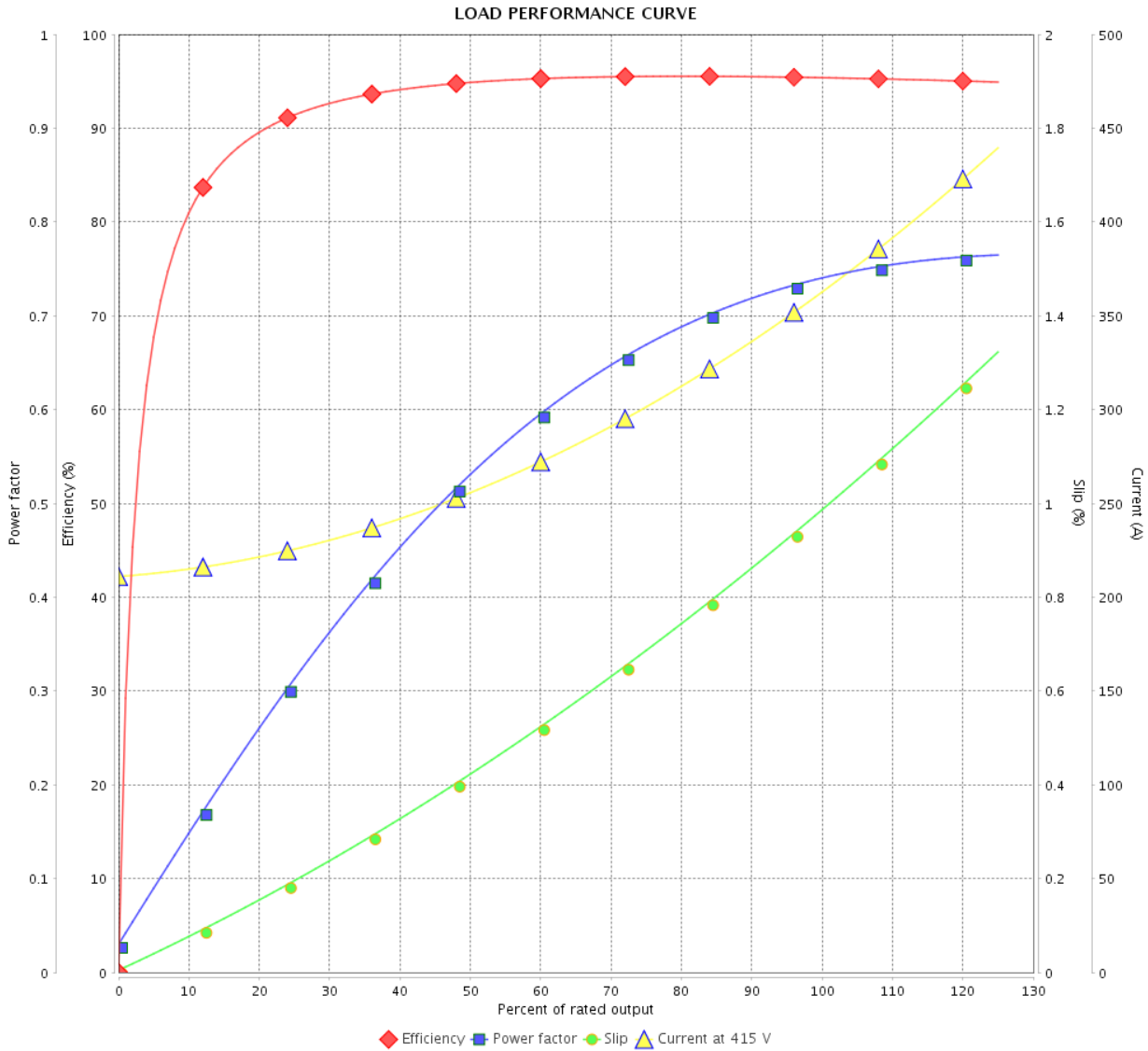


Customer : _____

Product line : W40 NEMA Premium Efficiency
Three-Phase

Product code : 13621119

Catalog # : 30012OT3G447/9T-W40



Performance : 415 V 50 Hz 6P IE2

Rated current : 365 A	Moment of inertia (J) : 131 sq.ft.lb
LRC : 7.2	Duty cycle : Cont.(S1)
Rated torque : 1330 ft.lb	Insulation class : F
Locked rotor torque : 280 %	Service factor : 1.00
Breakdown torque : 330 %	Temperature rise : 105 K
Rated speed : 990 rpm	Design : A

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THERMAL LIMIT CURVE



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase
 Product code : 13621119
 Catalog # : 30012OT3G447/9T-W40

Performance : 460 V 60 Hz 6P

Rated current : 365 A	Moment of inertia (J) : 131 sq.ft.lb
LRC : 6.7	Duty cycle : Cont.(S1)
Rated torque : 1320 ft.lb	Insulation class : F
Locked rotor torque : 240 %	Service factor : 1.00
Breakdown torque : 280 %	Temperature rise : 105 K
Rated speed : 1190 rpm	Design : A

Heating constant

Cooling constant

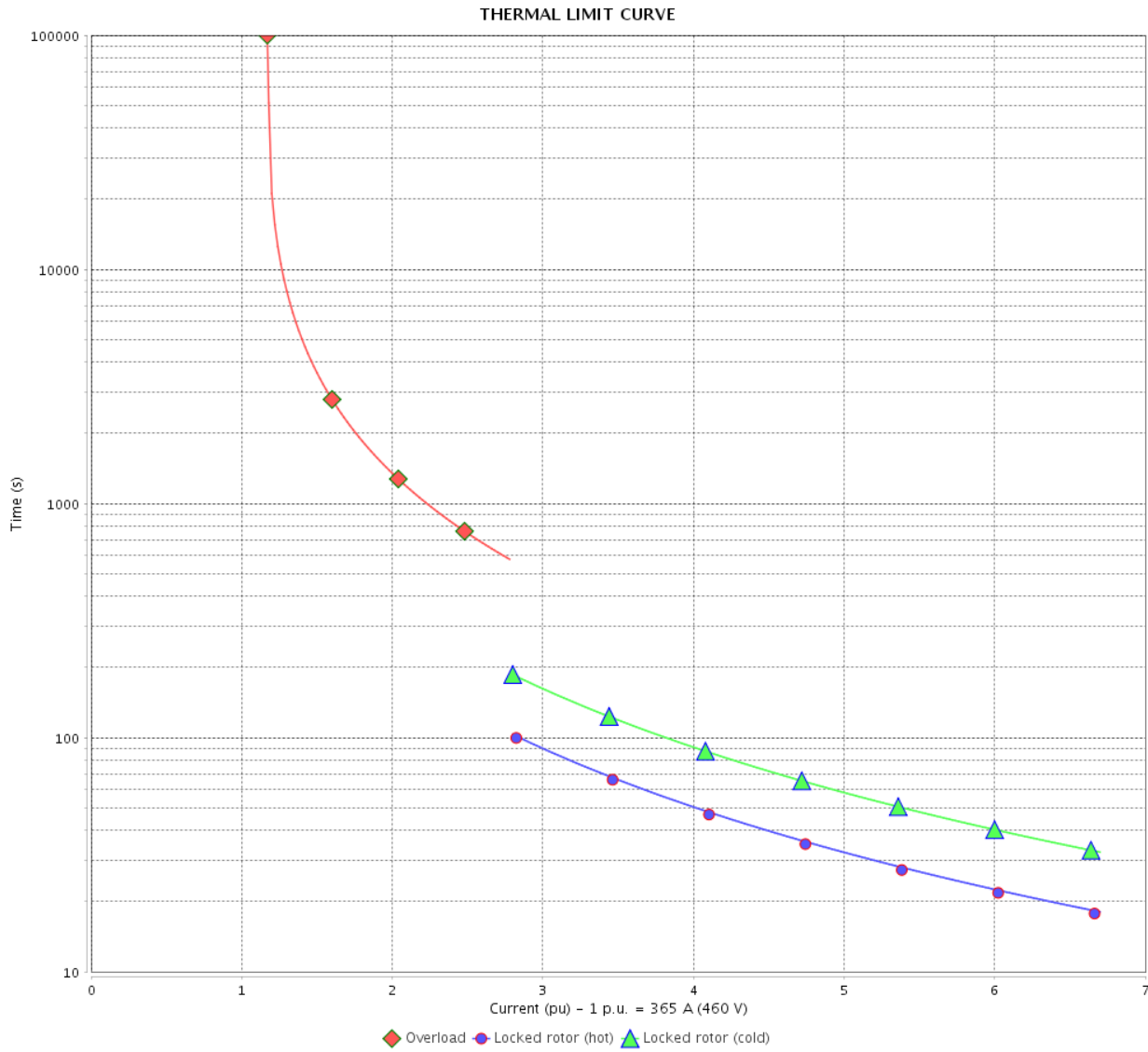
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase Product code : 13621119
 Catalog # : 30012OT3G447/9T-W40

Performance : 380 V 50 Hz 6P IE3

Rated current : 326 A	Moment of inertia (J) : 131 sq.ft.lb
LRC : 7.3	Duty cycle : Cont.(S1)
Rated torque : 1170 ft.lb	Insulation class : F
Locked rotor torque : 260 %	Service factor : 1.00
Breakdown torque : 310 %	Temperature rise : 80 K
Rated speed : 990 rpm	Design : A

Heating constant

Cooling constant

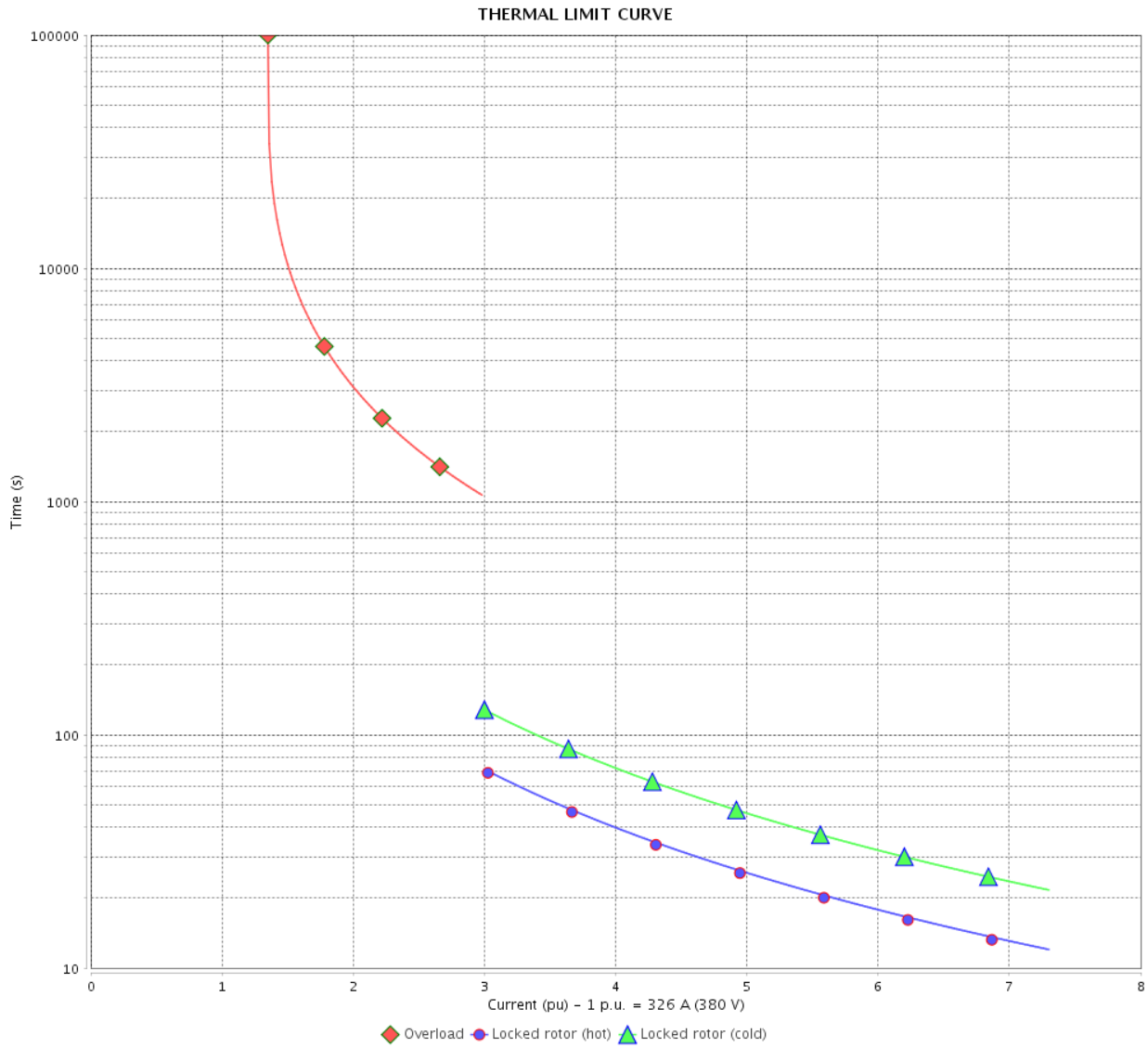
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Three Phase Induction Motor - Squirrel Cage



Customer : _____



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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase Product code : 13621119
 Catalog # : 30012OT3G447/9T-W40

Performance : 415 V 50 Hz 6P IE3

Rated current : 328 A	Moment of inertia (J) : 131 sq.ft.lb
LRC : 8.1	Duty cycle : Cont.(S1)
Rated torque : 1170 ft.lb	Insulation class : F
Locked rotor torque : 320 %	Service factor : 1.00
Breakdown torque : 390 %	Temperature rise : 80 K
Rated speed : 990 rpm	Design : A

Heating constant

Cooling constant

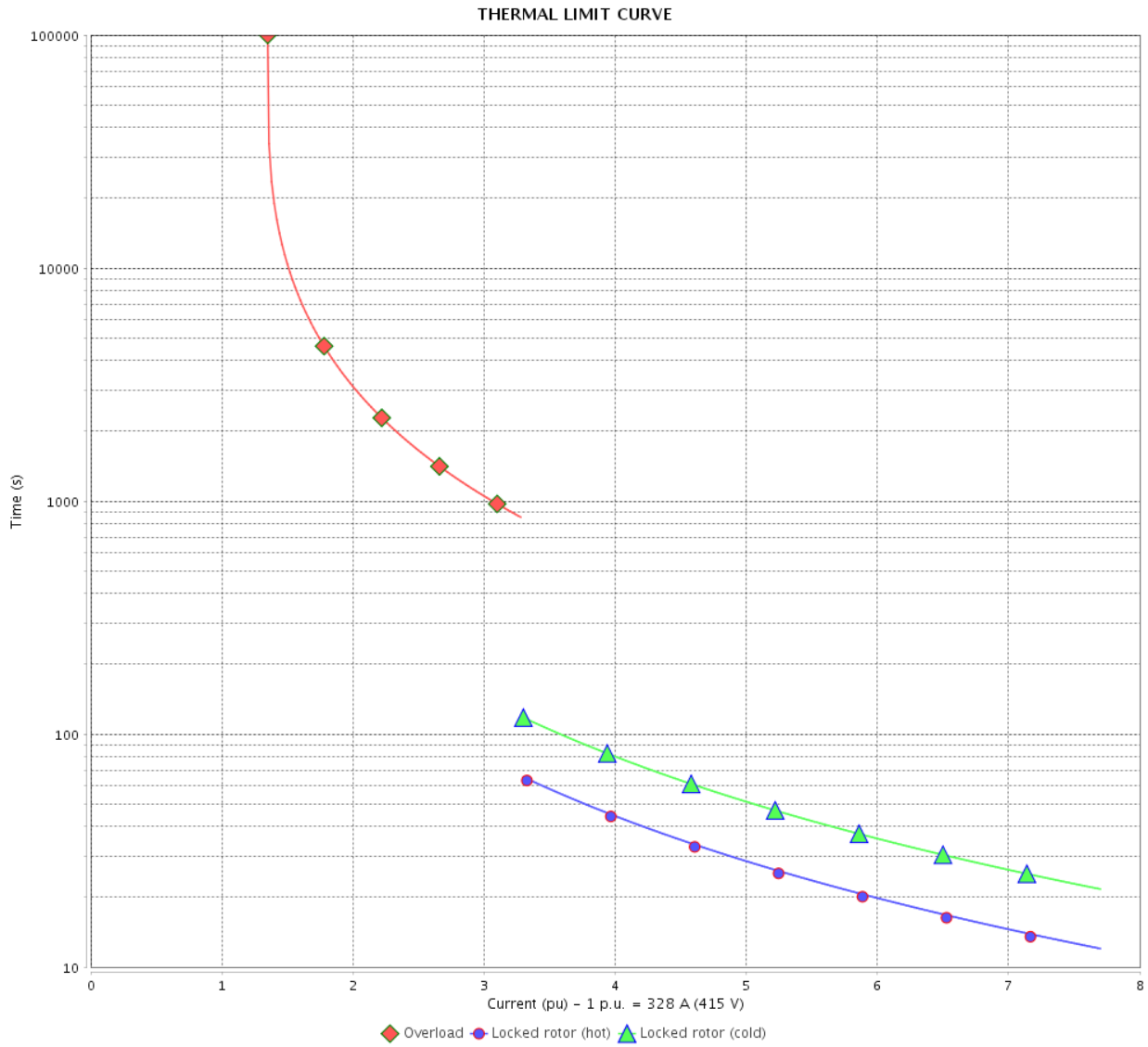
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Three Phase Induction Motor - Squirrel Cage



Customer : _____



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Three Phase Induction Motor - Squirrel Cage

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 Catalog # : 30012OT3G447/9T-W40

Performance : 380 V 50 Hz 6P IE1

Rated current : 372 A	Moment of inertia (J) : 131 sq.ft.lb
LRC : 6.4	Duty cycle : Cont.(S1)
Rated torque : 1330 ft.lb	Insulation class : F
Locked rotor torque : 220 %	Service factor : 1.00
Breakdown torque : 260 %	Temperature rise : 105 K
Rated speed : 990 rpm	Design : A

Heating constant

Cooling constant

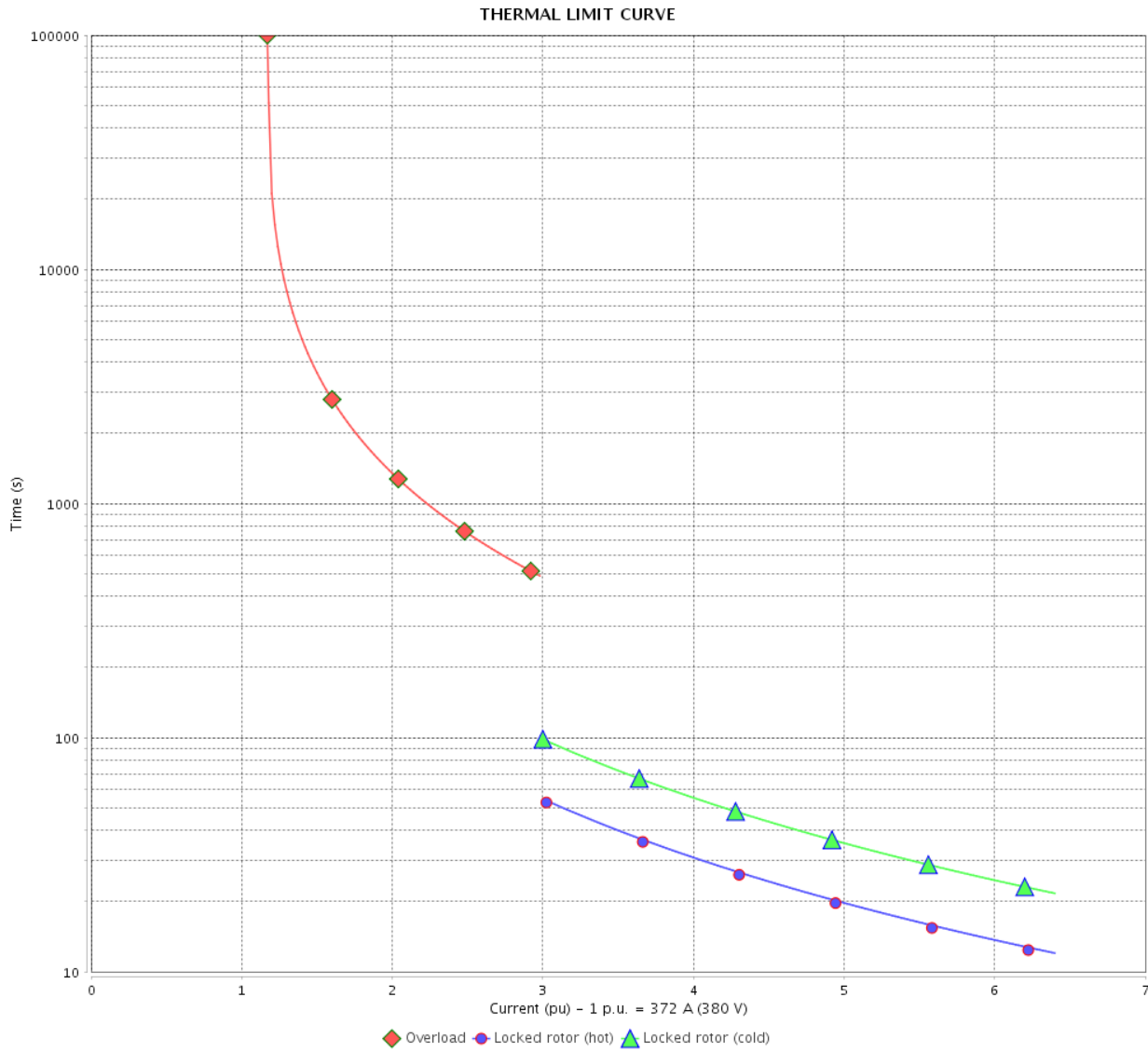
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Three Phase Induction Motor - Squirrel Cage



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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase Product code : 13621119
 Catalog # : 30012OT3G447/9T-W40

Performance : 400 V 50 Hz 6P IE2

Rated current : 365 A	Moment of inertia (J) : 131 sq.ft.lb
LRC : 6.8	Duty cycle : Cont.(S1)
Rated torque : 1330 ft.lb	Insulation class : F
Locked rotor torque : 250 %	Service factor : 1.00
Breakdown torque : 300 %	Temperature rise : 105 K
Rated speed : 985 rpm	Design : A

Heating constant

Cooling constant

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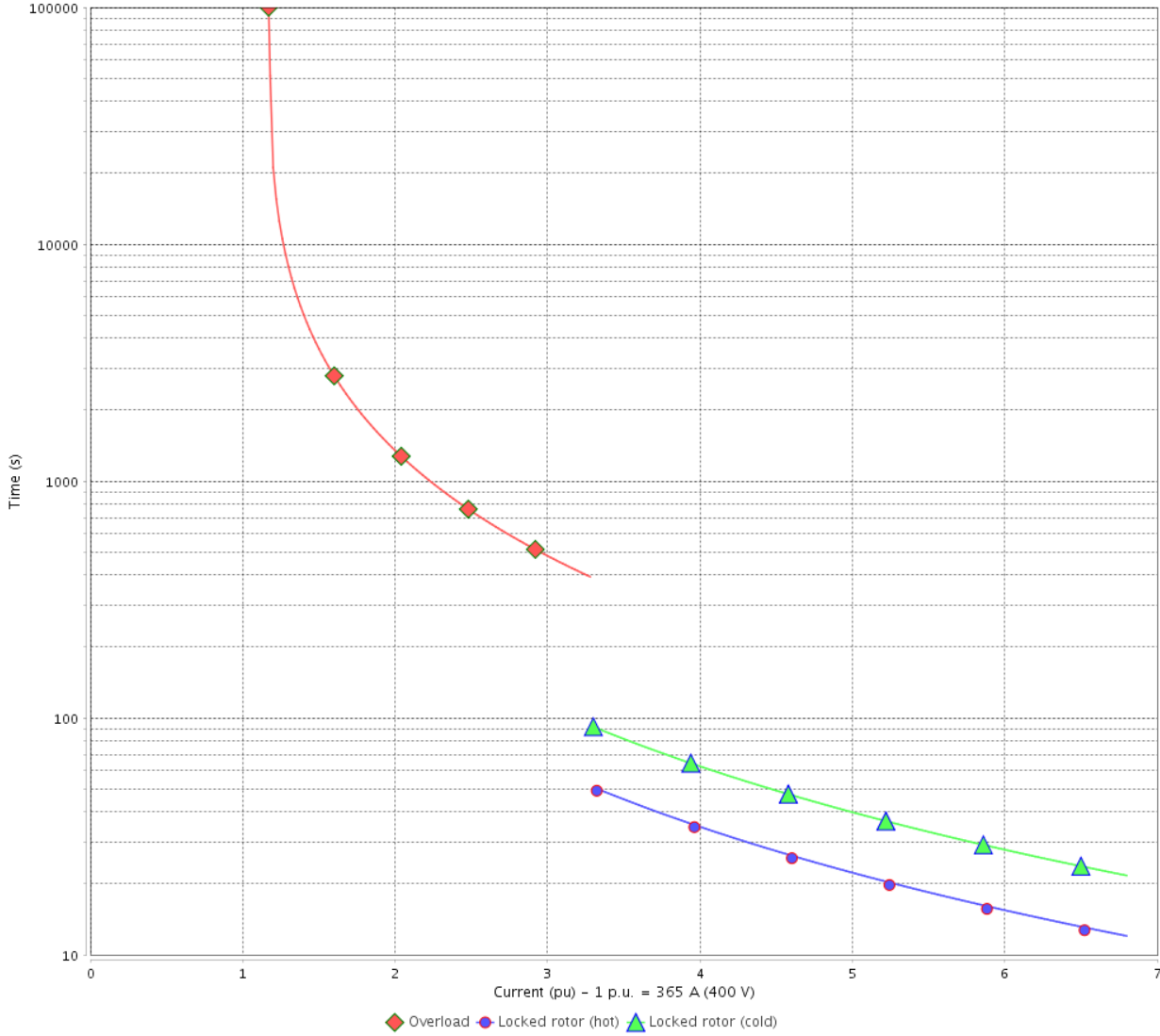
THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____

THERMAL LIMIT CURVE



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THERMAL LIMIT CURVE



Three Phase Induction Motor - Squirrel Cage

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Locked rotor torque : 280 %	Service factor : 1.00
Breakdown torque : 330 %	Temperature rise : 105 K
Rated speed : 990 rpm	Design : A

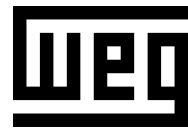
Heating constant

Cooling constant

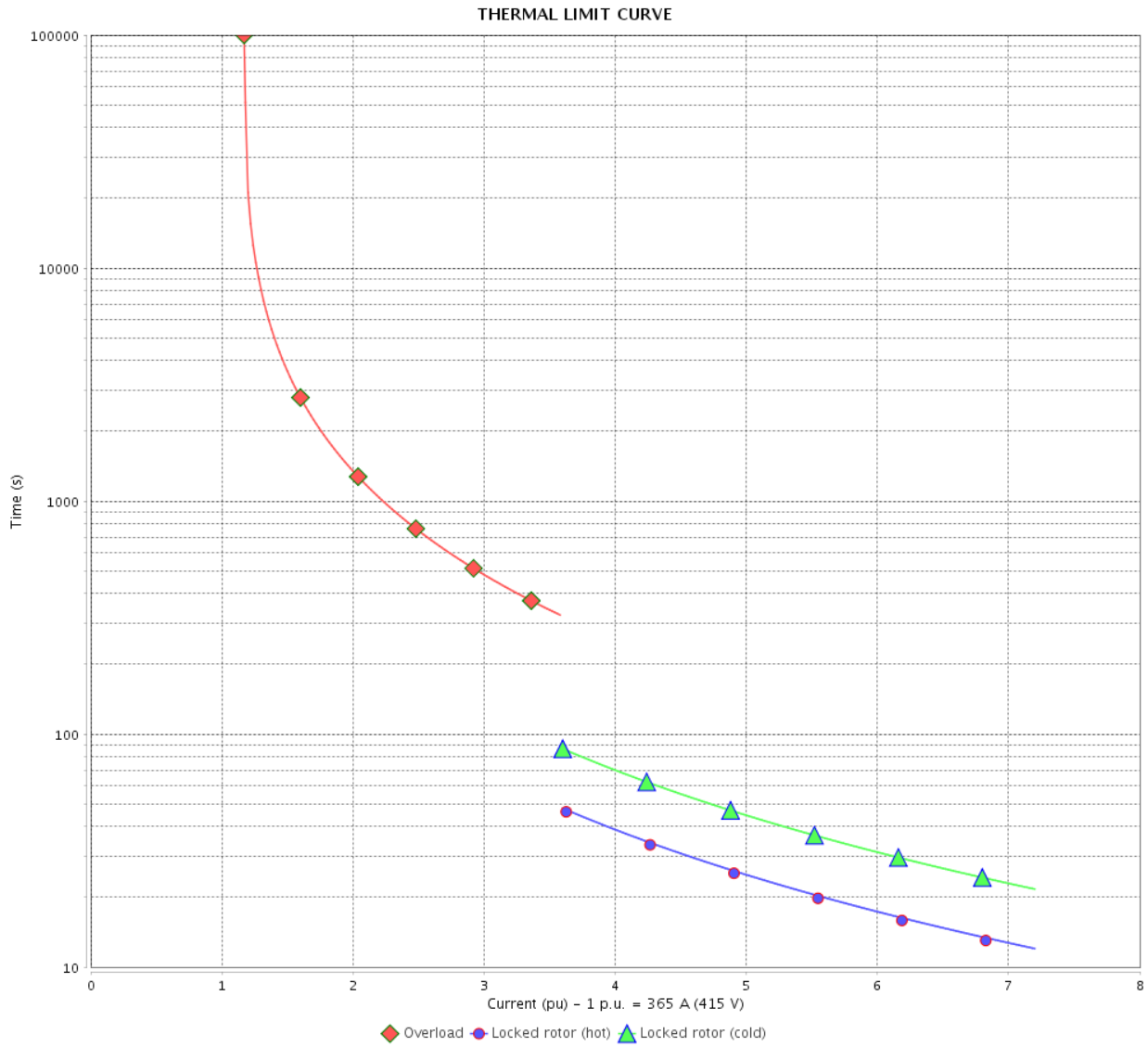
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Three Phase Induction Motor - Squirrel Cage



Customer : _____



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

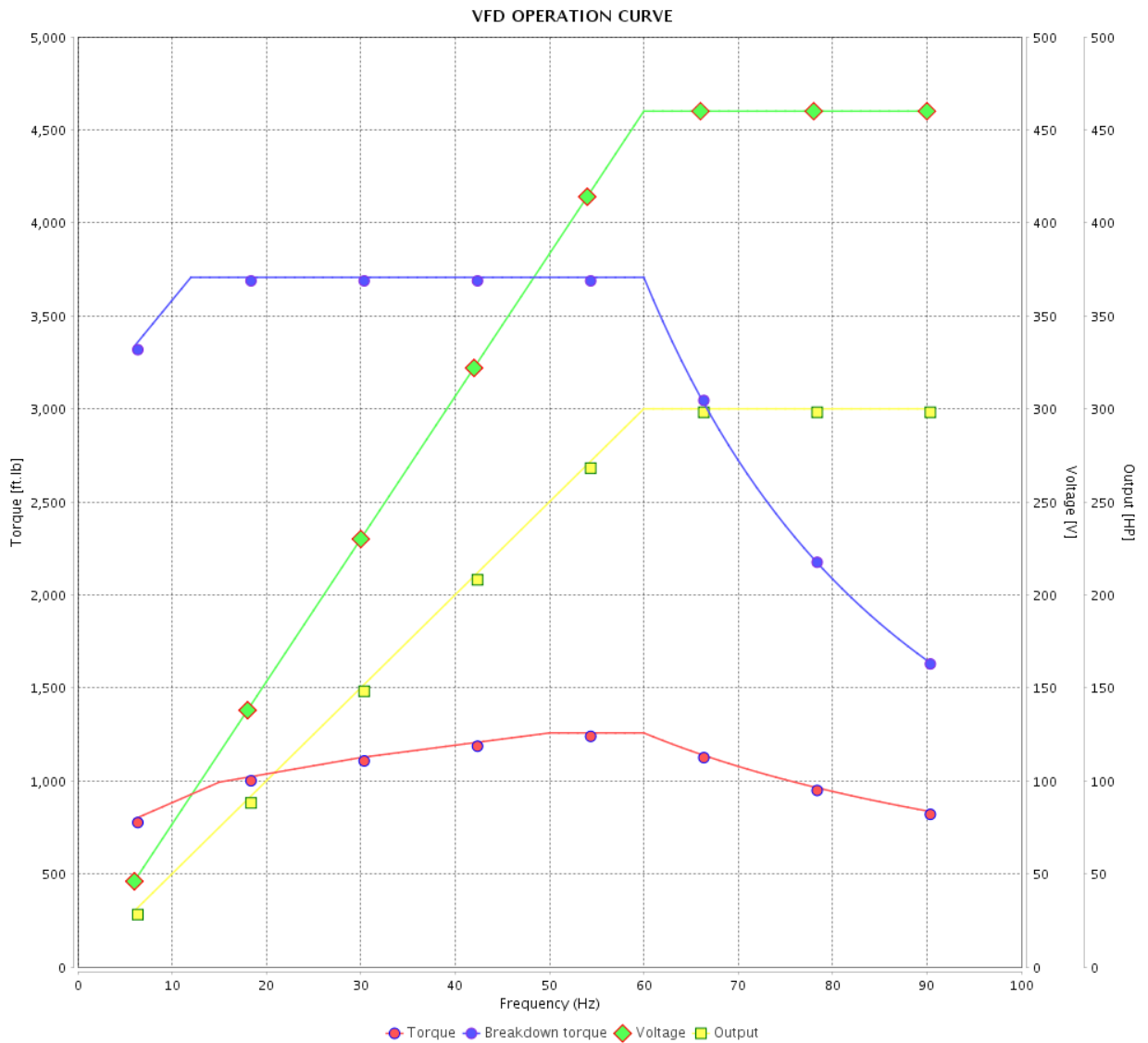


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Locked rotor torque : 240 %
Breakdown torque : 280 %
Rated speed : 1190 rpm

Moment of inertia (J) : 131 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 105 K
Design : A

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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



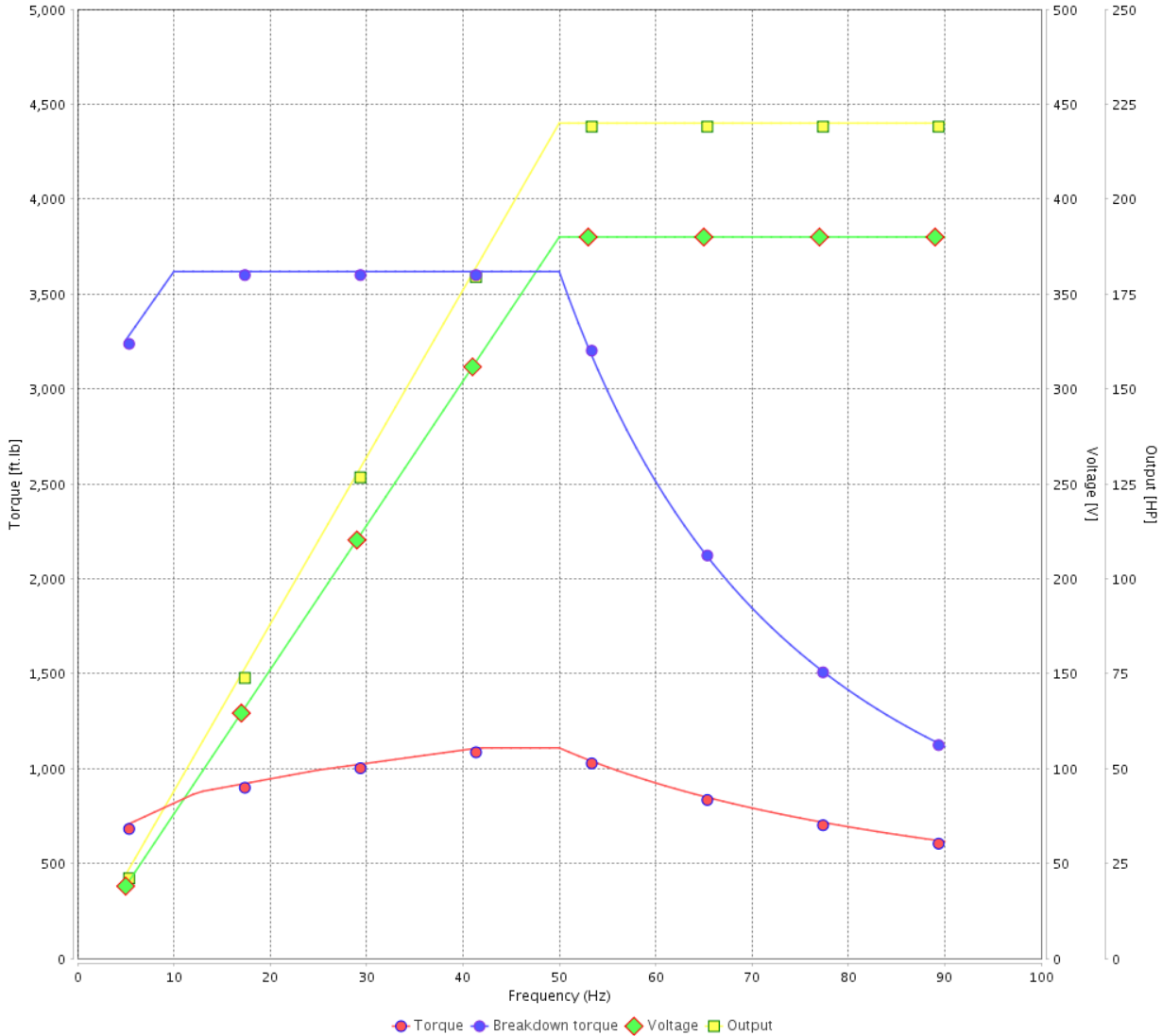
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Three-Phase

Product code : 13621119

Catalog # : 30012OT3G447/9T-W40

VFD OPERATION CURVE



Performance : 380 V 50 Hz 6P IE3

Rated current	: 326 A	Moment of inertia (J)	: 131 sq.ft.lb
LRC	: 7.3	Duty cycle	: Cont.(S1)
Rated torque	: 1170 ft.lb	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.00
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 990 rpm	Design	: A

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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

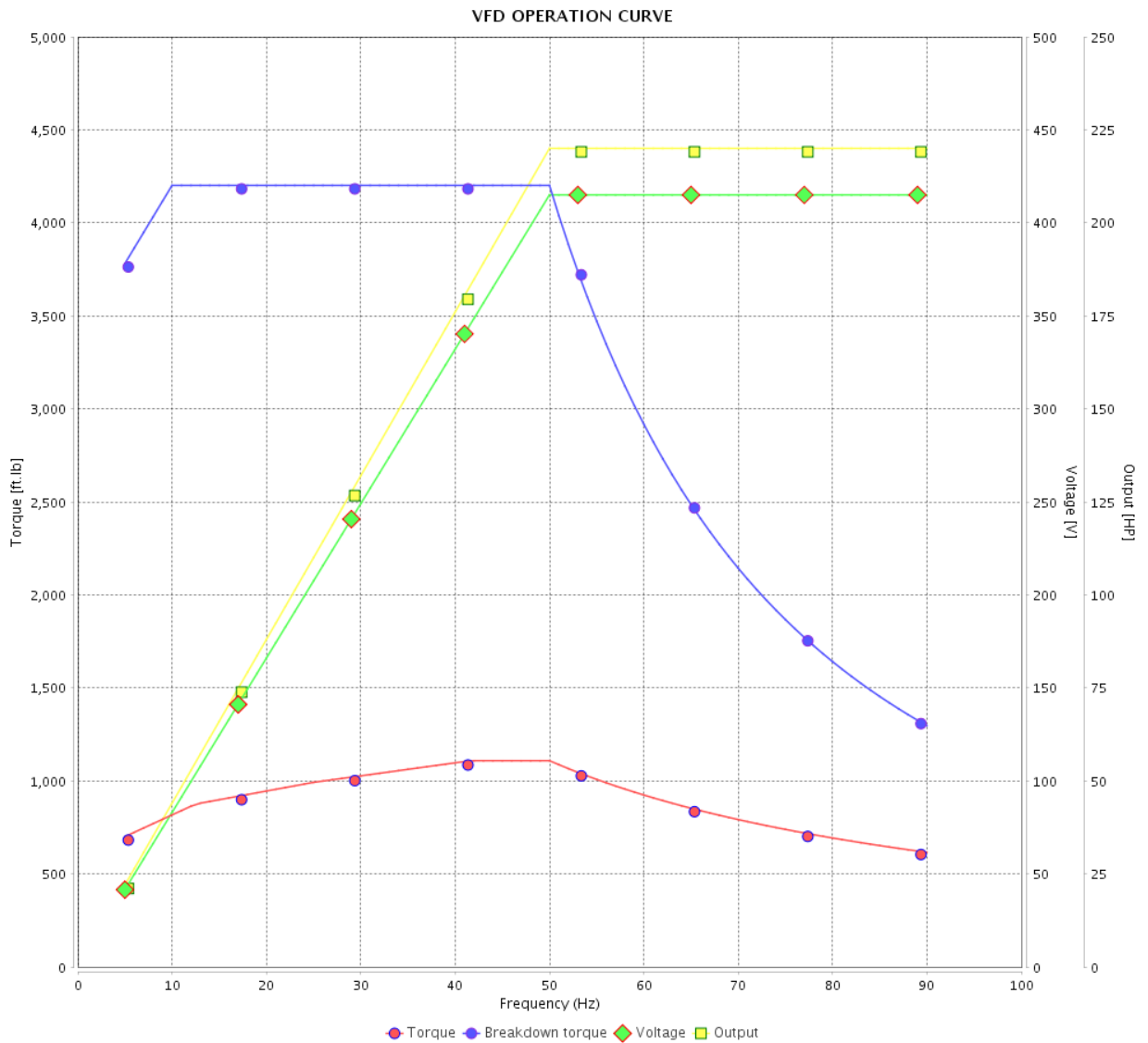


Customer :

Product line : W40 NEMA Premium Efficiency
Three-Phase

Product code : 13621119

Catalog # : 30012OT3G447/9T-W40



Performance : 415 V 50 Hz 6P IE3

Rated current : 328 A
LRC : 8.1
Rated torque : 1170 ft.lb
Locked rotor torque : 320 %
Breakdown torque : 390 %
Rated speed : 990 rpm

Moment of inertia (J) : 131 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : A

Rev.	Changes Summary	Performed	Checked	Date
Performed by				Page 29 / 32
Checked by				
Date	12/04/2022			

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



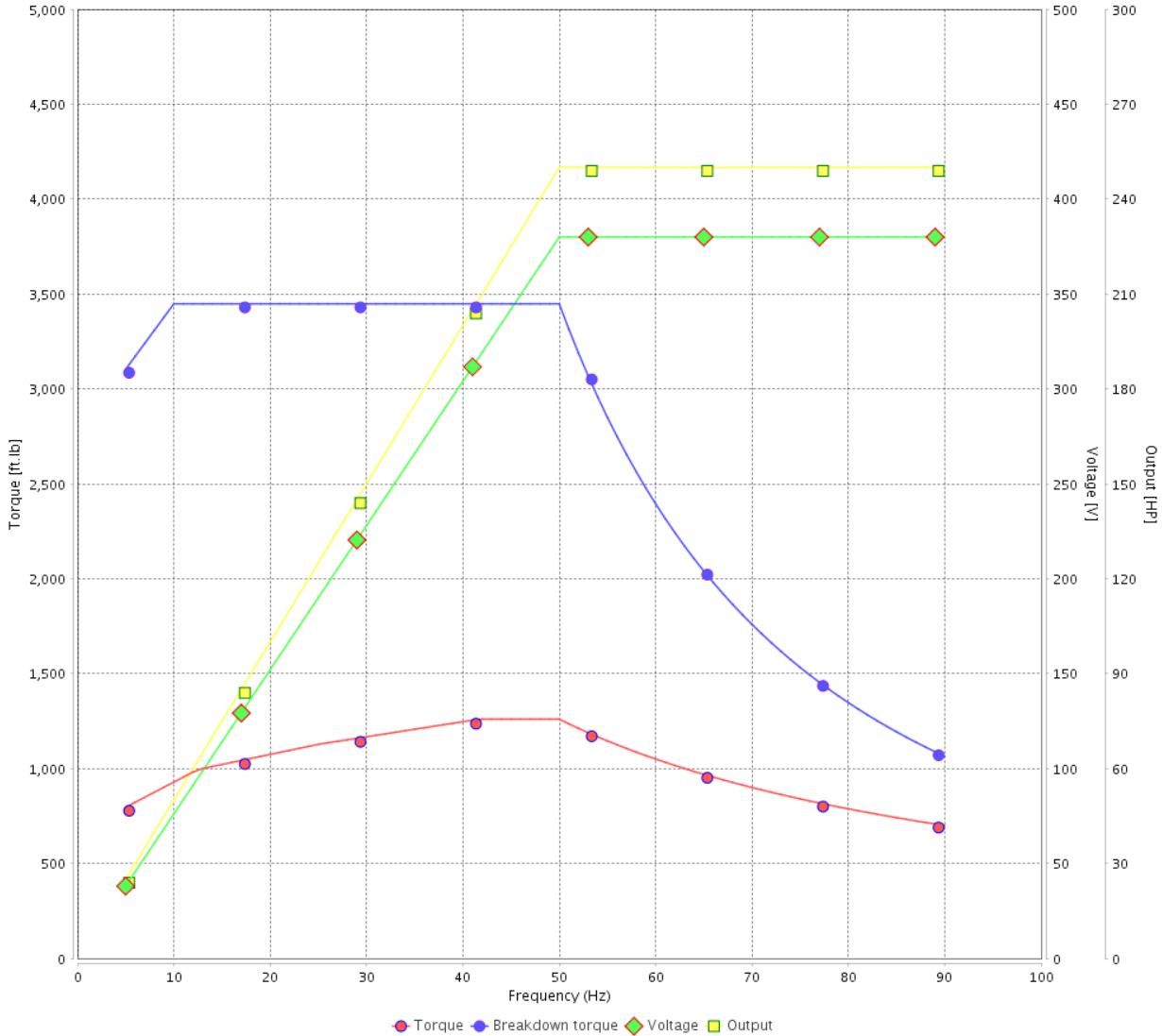
Customer : _____

Product line : W40 NEMA Premium Efficiency
Three-Phase

Product code : 13621119

Catalog # : 30012OT3G447/9T-W40

VFD OPERATION CURVE



Performance : 380 V 50 Hz 6P IE1

Rated current : 372 A
LRC : 6.4
Rated torque : 1330 ft.lb
Locked rotor torque : 220 %
Breakdown torque : 260 %
Rated speed : 990 rpm

Moment of inertia (J) : 131 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 105 K
Design : A

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Performed by		Page		Revision
Checked by		30 / 32		
Date	12/04/2022			

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

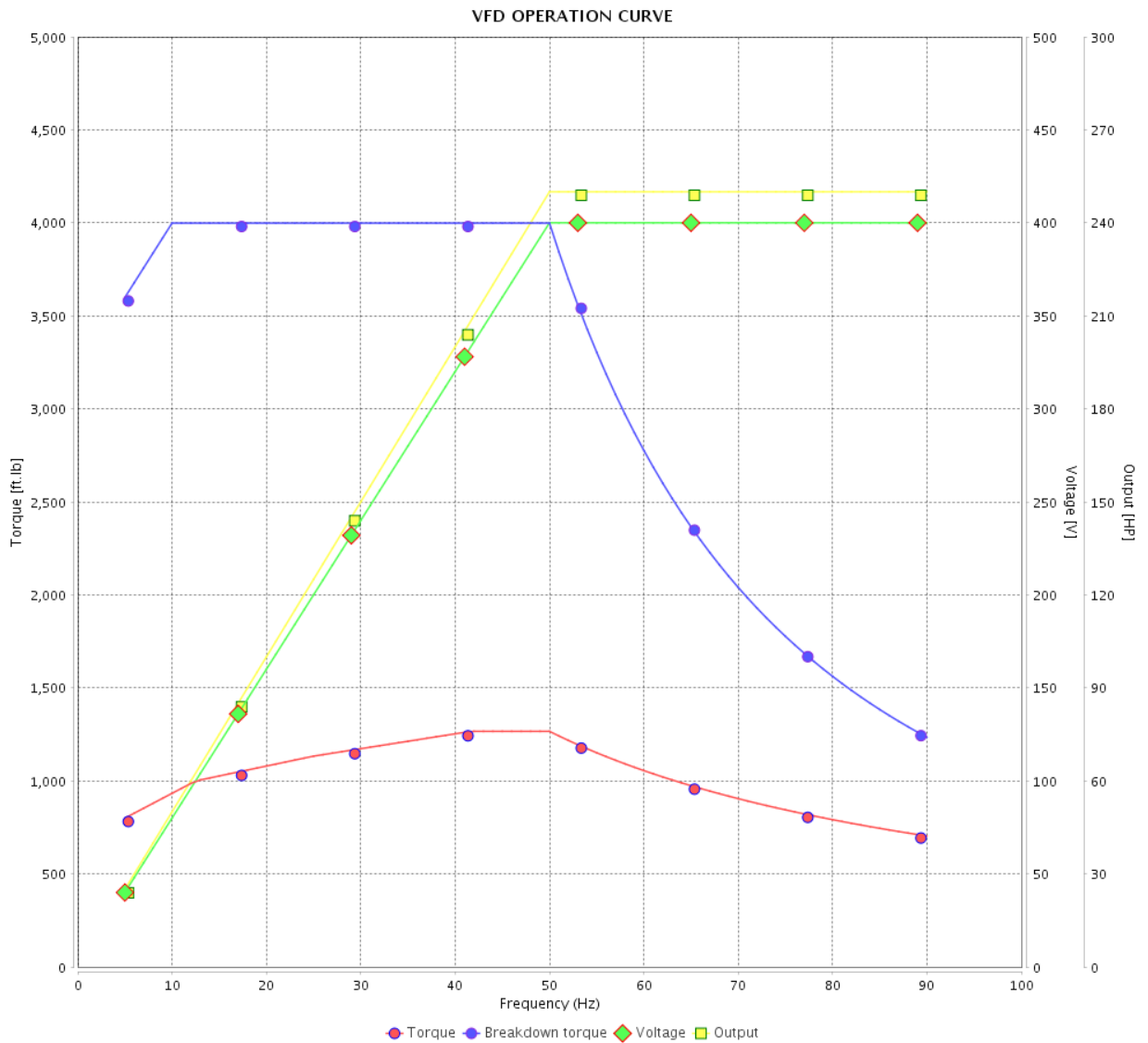


Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 13621119

Catalog # : 30012OT3G447/9T-W40



Performance : 400 V 50 Hz 6P IE2

Rated current : 365 A
 LRC : 6.8
 Rated torque : 1330 ft.lb
 Locked rotor torque : 250 %
 Breakdown torque : 300 %
 Rated speed : 985 rpm

Moment of inertia (J) : 131 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : A

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 31 / 32	Revision
Checked by				
Date	12/04/2022			

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



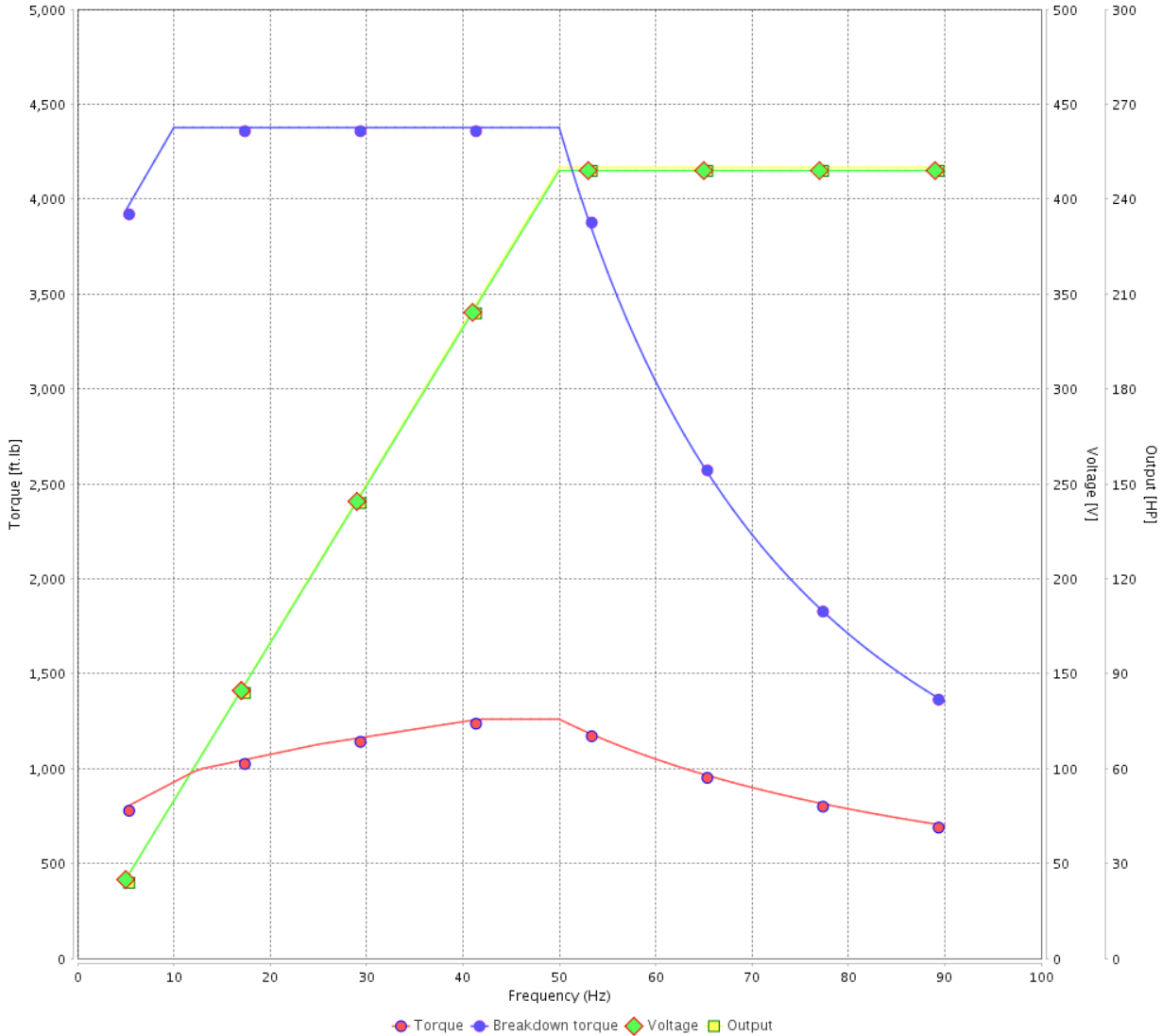
Customer :

Product line : W40 NEMA Premium Efficiency
Three-Phase

Product code : 13621119

Catalog # : 30012OT3G447/9T-W40

VFD OPERATION CURVE

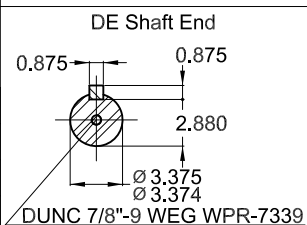
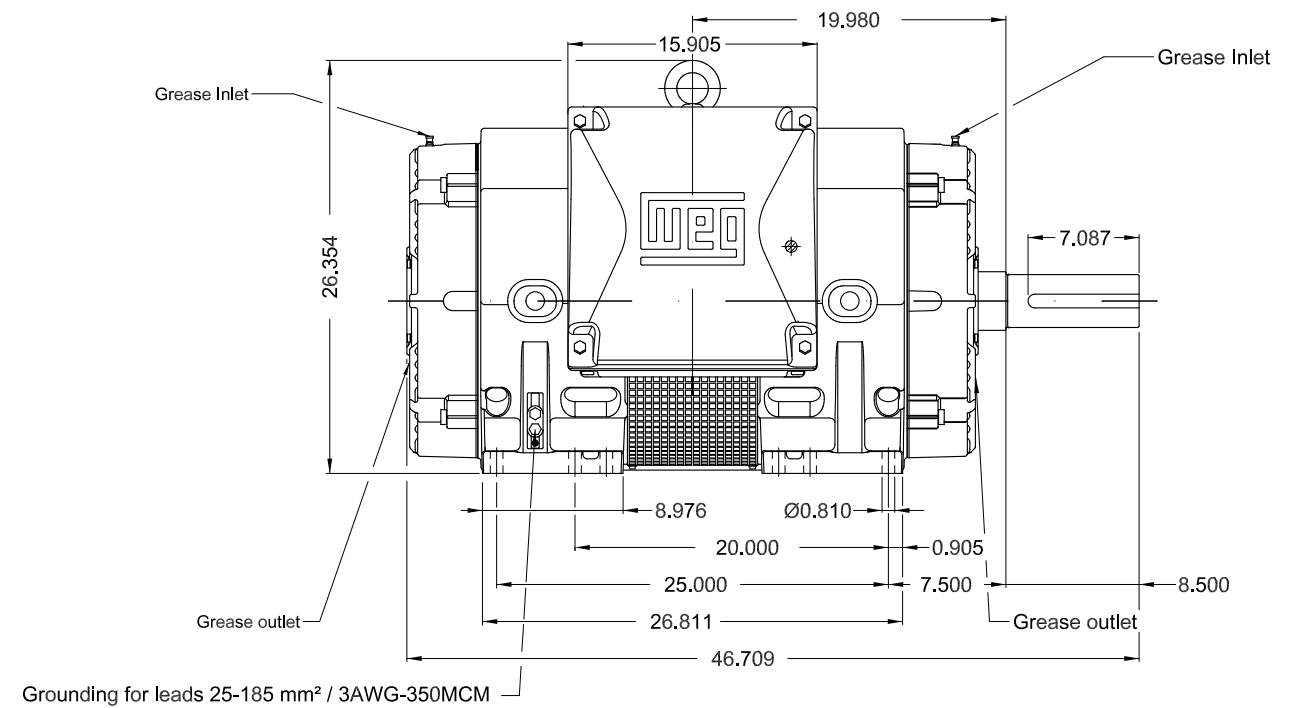
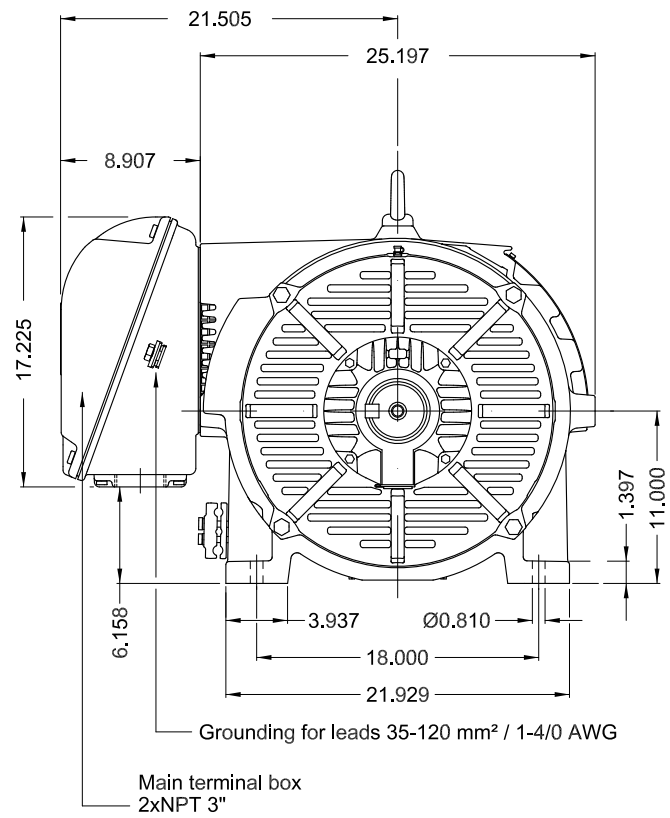


Performance : 415 V 50 Hz 6P IE2

Rated current : 365 A
LRC : 7.2
Rated torque : 1330 ft.lb
Locked rotor torque : 280 %
Breakdown torque : 330 %
Rated speed : 990 rpm

Moment of inertia (J) : 131 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 105 K
Design : A

Rev.	Changes Summary	Performed	Checked	Date
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Date	12/04/2022			



Color RAL 5009
 Painting plan 203A
 Mounting NEMA F-1
 Mounting B3R(D)

300 HP 06 Poles 60 Hz A

1:12

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	PIRWBUSER	THREE PH. MOTOR W40 PREM. EFF.					
CHECKED		FRAME 447/9T IP23 ODP					
RELEASED							
REL DT.	WMO	Jaragua do Sul	Product Engineering	SHEET	1 / 1		

PREVIEW
WDD

