

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer							
Product line		: W40 NEMA Premium Efficiency Three-Phase		Product code :		13611338	
				Catalog # :		25012OT3G447/9T-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		: 2179 lb	
Protection degree		: IP23		Moment of inertia (J)		: 115 sq.ft.lb	
Design		: A					
Output [HP]	250	175	175	175	200	200	200
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]	299	263	263	264	296	294	291
L. R. Amperes [A]	1944	1841	1999	2376	1835	1999	2386
LRC [A]	6.5x(Code G)	7.0x(Code H)	7.6x(Code J)	9.0x(Code L)	6.2x(Code G)	6.8x(Code H)	8.2x(Code K)
No load current [A]	125	123	136	149	123	136	149
Rated speed [RPM]	1185	985	985	985	985	985	985
Slip [%]	1.25	1.50	1.50	1.50	1.50	1.50	1.50
Rated torque [ft.lb]	1110	933	933	933	1070	1070	1070
Locked rotor torque [%]	220	229	260	300	200	229	260
Breakdown torque [%]	240	270	310	330	240	270	290
Service factor	1.15	1.15	1.15	1.15	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	32s (cold)	16s (cold)	16s (cold)	16s (cold)	16s (cold)	16s (cold)	16s (cold)
	18s (hot)	9s (hot)	9s (hot)	9s (hot)	9s (hot)	9s (hot)	9s (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%	95.3	93.8	92.7	92.1	94.4	93.4
	50%	95.4	94.4	93.7	93.2	94.5	93.6
	75%	95.8	94.9	94.5	94.3	95.0	94.5
	100%	95.8	95.4	95.4	95.4	94.9	94.5
Power Factor	25%	0.42	0.38	0.34	0.30	0.42	0.33
	50%	0.67	0.62	0.57	0.52	0.67	0.57
	75%	0.77	0.75	0.70	0.66	0.77	0.69
	100%	0.81	0.80	0.76	0.73	0.81	0.76
Bearing type	: <u>Drive end</u> 6319 C3 <u>Non drive end</u> 6314 C3		Foundation loads				
	: Without Without		Max. traction : 7154 lb				
Sealing	: Bearing Seal Bearing Seal		Max. compression : 9333 lb				
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



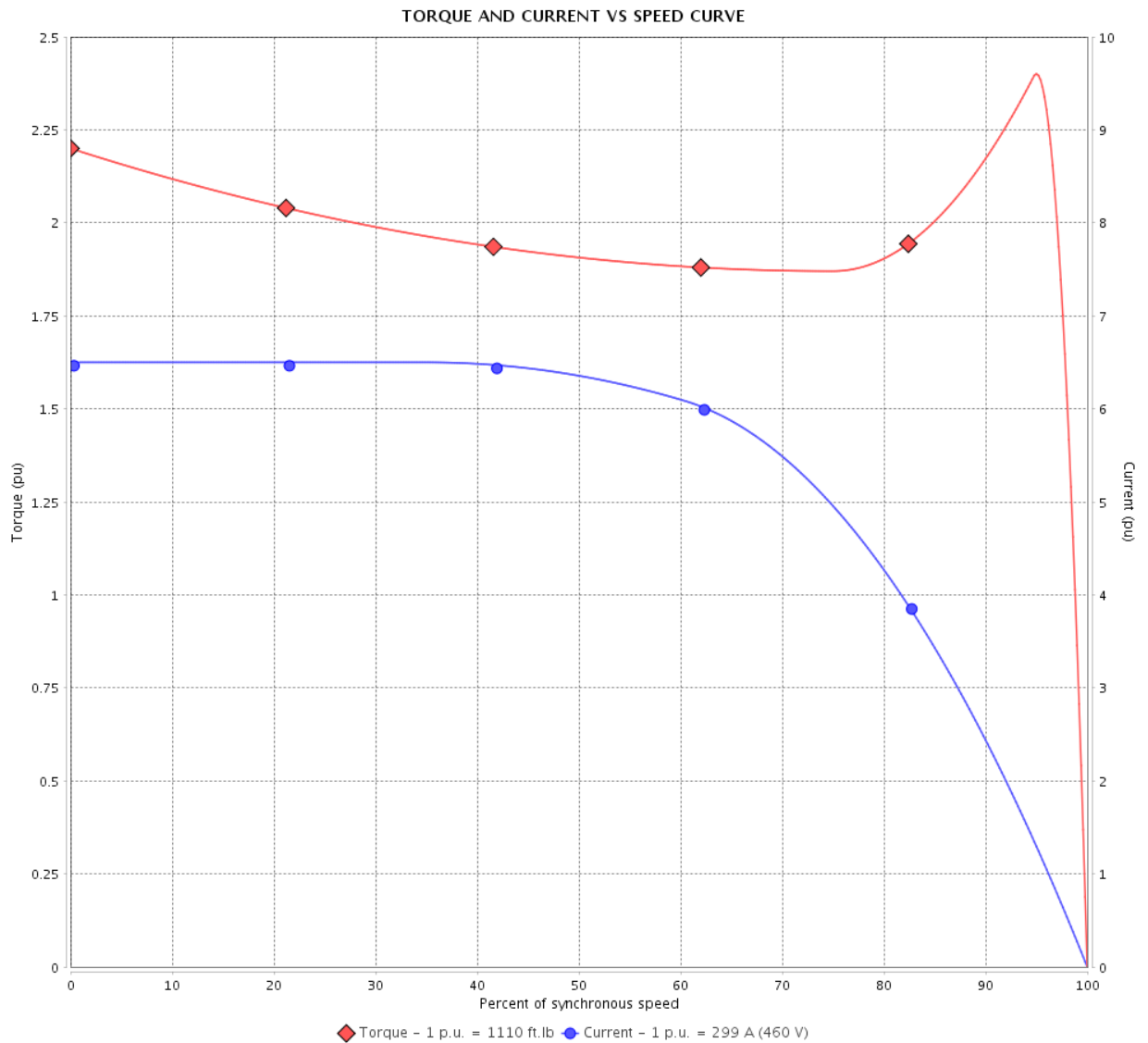
Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W40 NEMA Premium Efficiency
Three-Phase

Product code : 13611338

Catalog # : 25012OT3G447/9T-W40



Performance : 460 V 60 Hz 6P

Rated current	: 299 A	Moment of inertia (J)	: 115 sq.ft.lb
LRC	: 6.5	Duty cycle	: Cont.(S1)
Rated torque	: 1110 ft.lb	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.15
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 1185 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



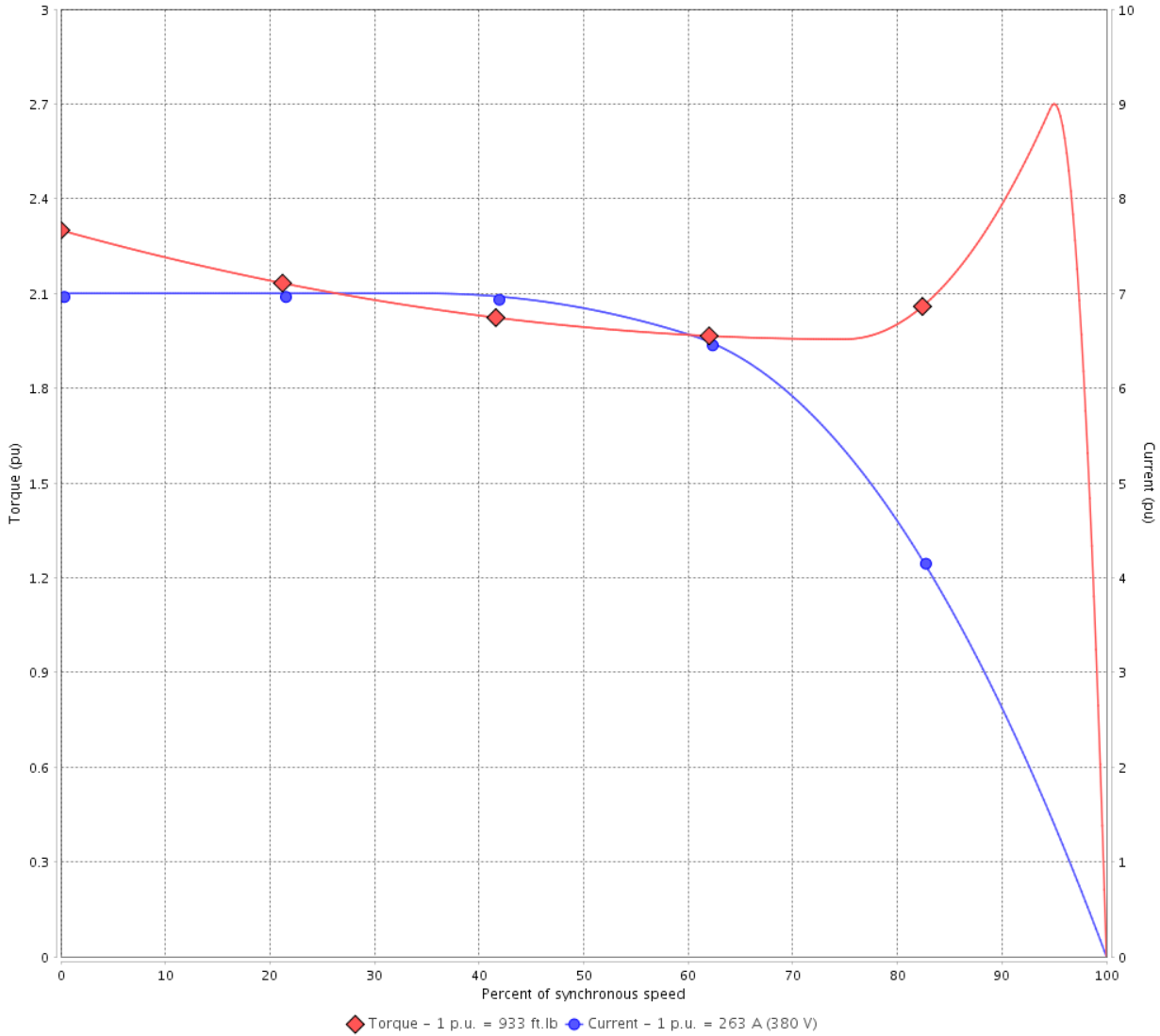
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TORQUE AND CURRENT VS SPEED CURVE



Performance : 380 V 50 Hz 6P IE3

Rated current	: 263 A	Moment of inertia (J)	: 115 sq.ft.lb
LRC	: 7.0	Duty cycle	: Cont.(S1)
Rated torque	: 933 ft.lb	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.15
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 985 rpm	Design	: A

Locked rotor time : 16s (cold) 9s (hot)

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TORQUE AND CURRENT VS SPEED CURVE



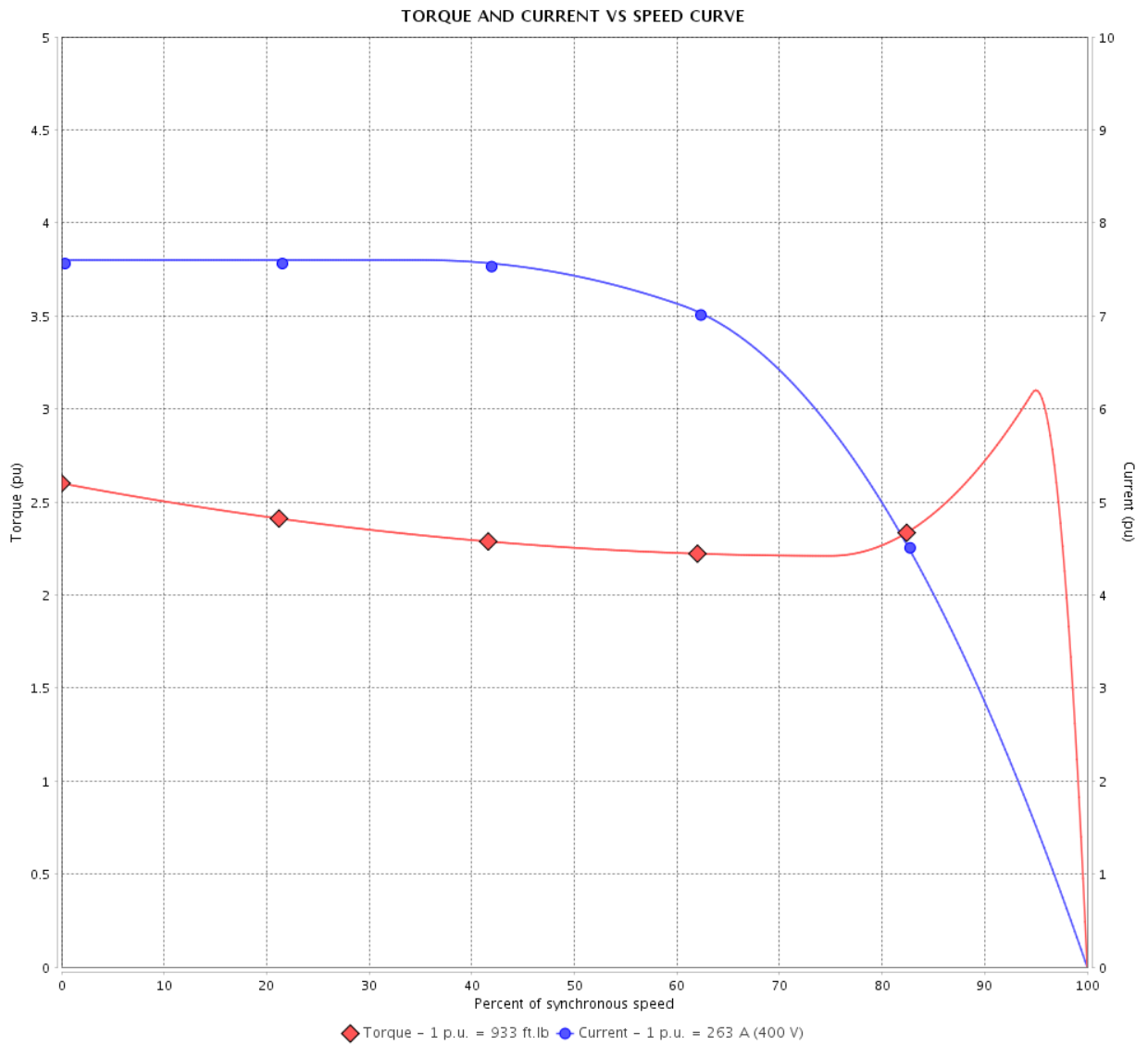
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Catalog # : 25012OT3G447/9T-W40



Performance : 400 V 50 Hz 6P IE3

Rated current	: 263 A	Moment of inertia (J)	: 115 sq.ft.lb
LRC	: 7.6	Duty cycle	: Cont.(S1)
Rated torque	: 933 ft.lb	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.15
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 985 rpm	Design	: A

Locked rotor time : 16s (cold) 9s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

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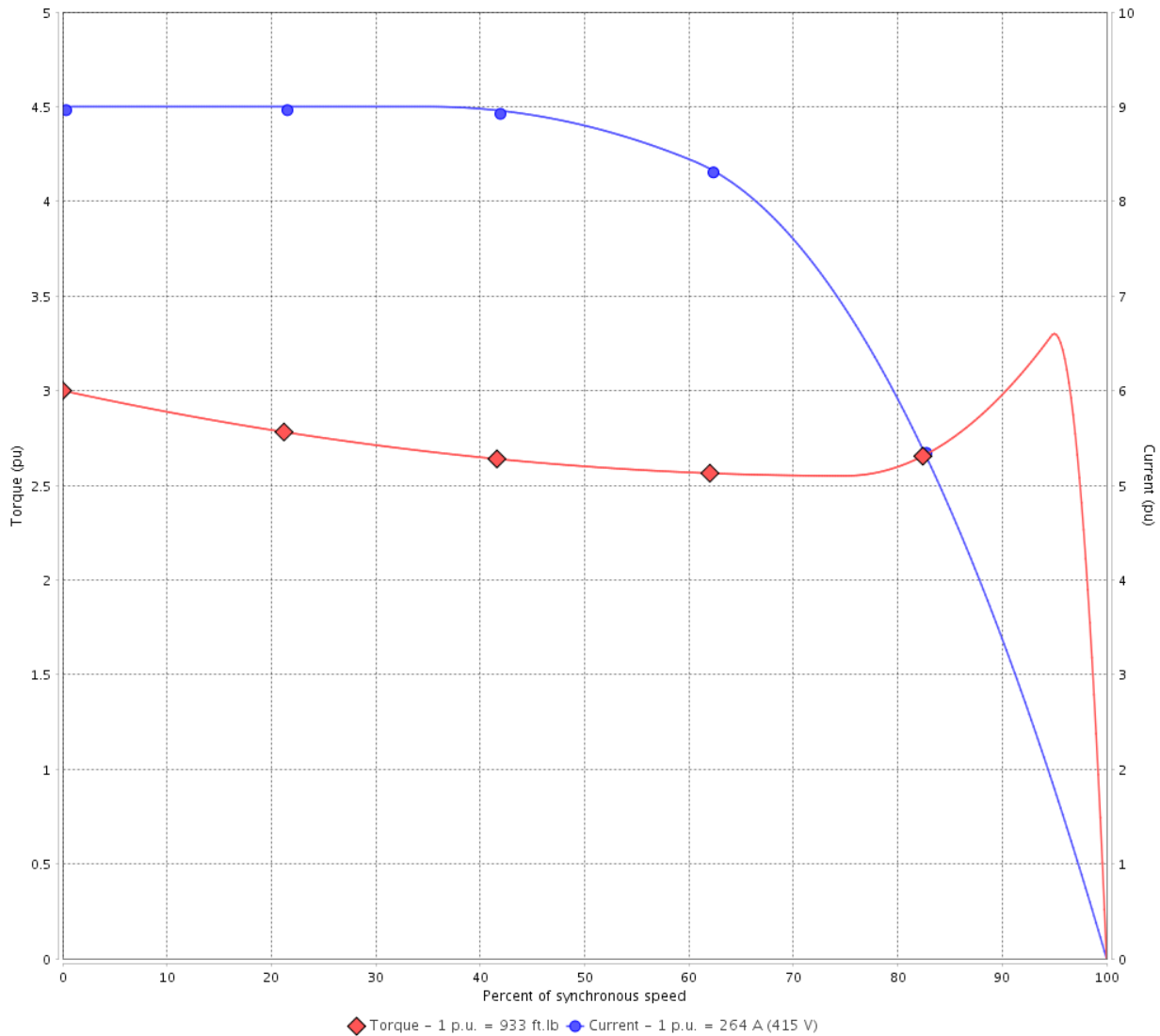
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TORQUE AND CURRENT VS SPEED CURVE



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LRC	: 9.0	Duty cycle	: Cont.(S1)
Rated torque	: 933 ft.lb	Insulation class	: F
Locked rotor torque	: 300 %	Service factor	: 1.15
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 985 rpm	Design	: A

Locked rotor time : 16s (cold) 9s (hot)

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TORQUE AND CURRENT VS SPEED CURVE



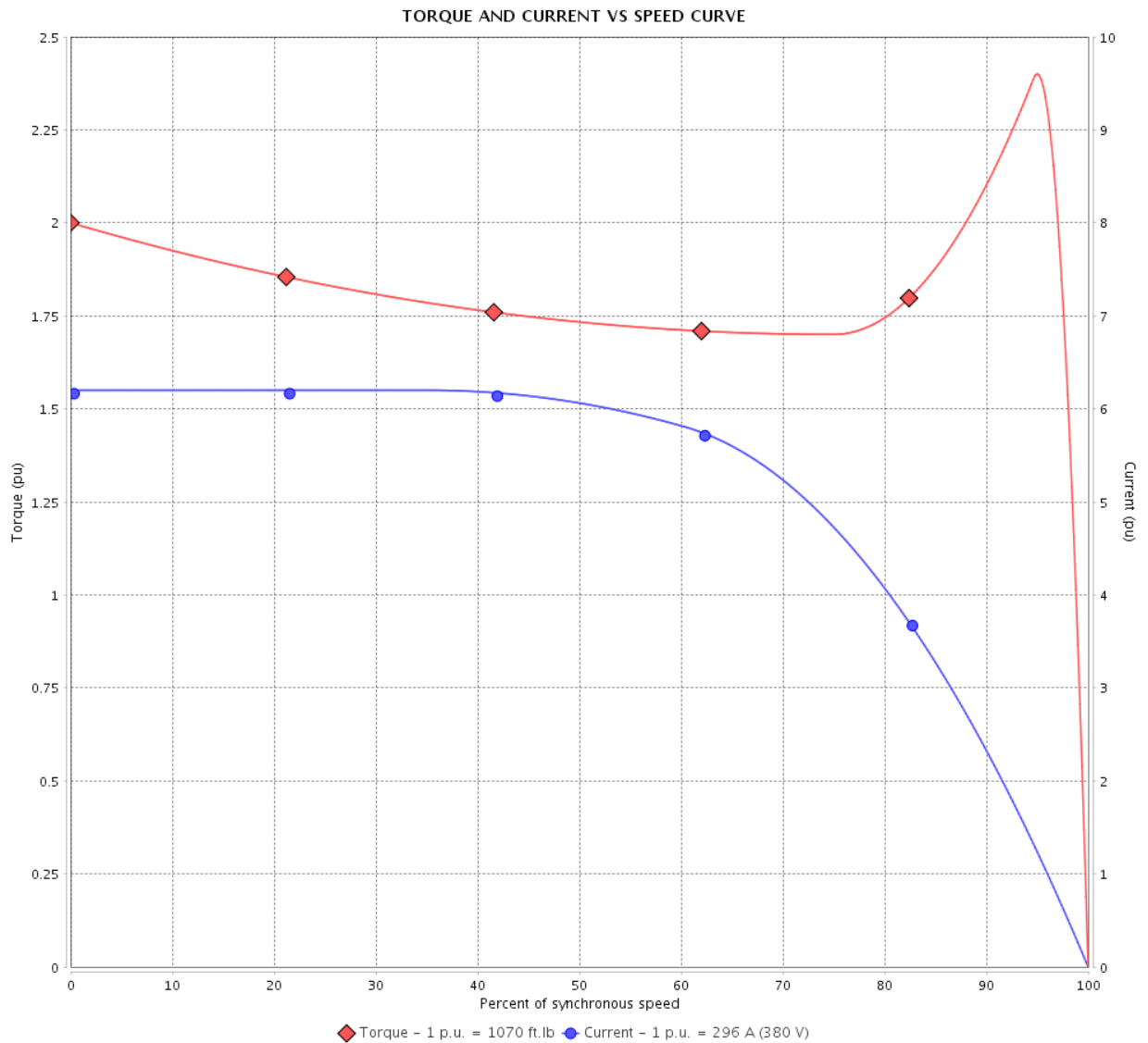
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Customer :

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Catalog # : 25012OT3G447/9T-W40



Performance : 380 V 50 Hz 6P IE2

Rated current	: 296 A	Moment of inertia (J)	: 115 sq.ft.lb
LRC	: 6.2	Duty cycle	: Cont.(S1)
Rated torque	: 1070 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.00
Breakdown torque	: 240 %	Temperature rise	: 105 K
Rated speed	: 985 rpm	Design	: A

Locked rotor time : 16s (cold) 9s (hot)

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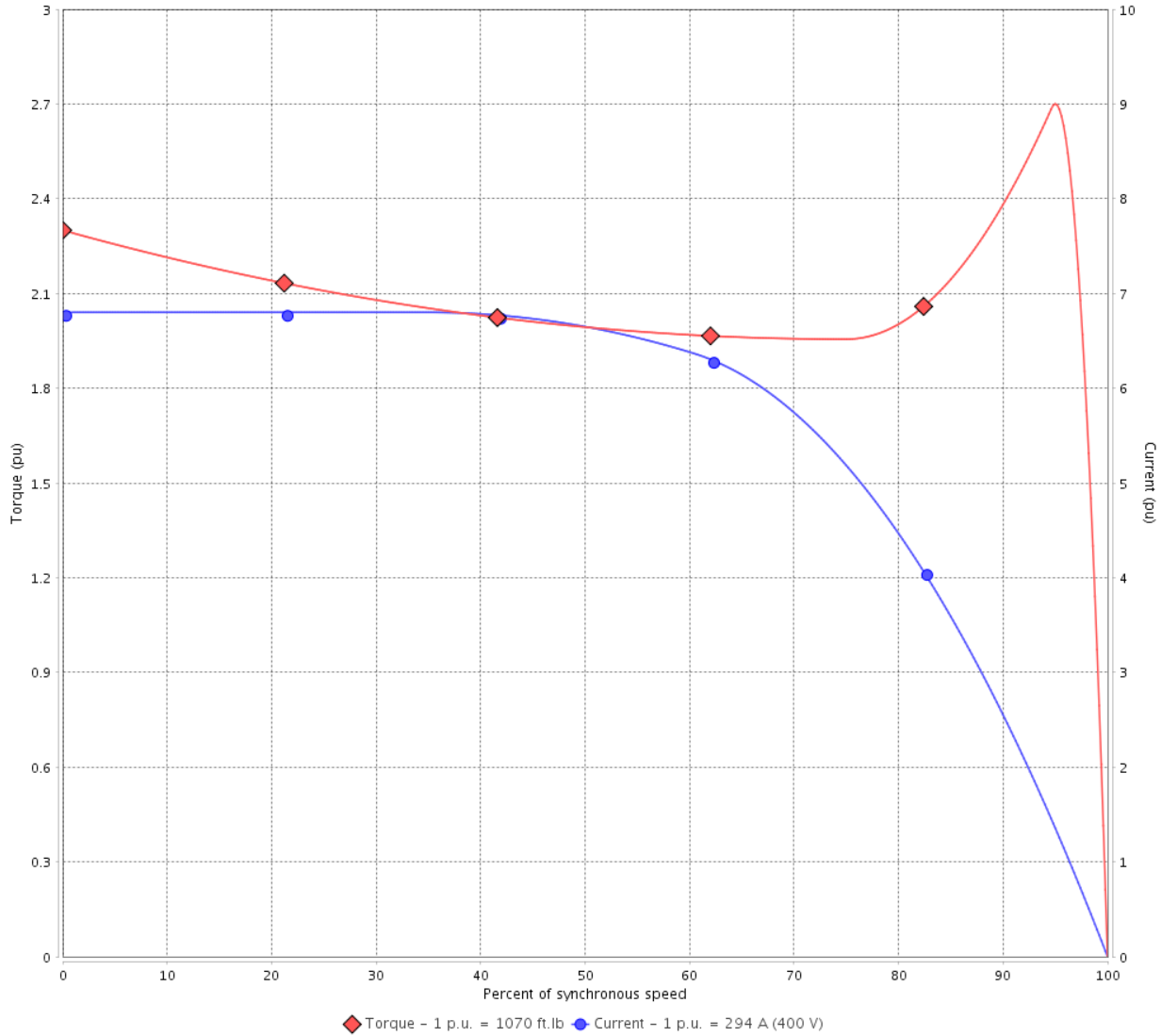
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Product code : 13611338

Catalog # : 25012OT3G447/9T-W40

TORQUE AND CURRENT VS SPEED CURVE



Performance : 400 V 50 Hz 6P IE1

Rated current	: 294 A	Moment of inertia (J)	: 115 sq.ft.lb
LRC	: 6.8	Duty cycle	: Cont.(S1)
Rated torque	: 1070 ft.lb	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.00
Breakdown torque	: 270 %	Temperature rise	: 105 K
Rated speed	: 985 rpm	Design	: A

Locked rotor time : 16s (cold) 9s (hot)

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TORQUE AND CURRENT VS SPEED CURVE



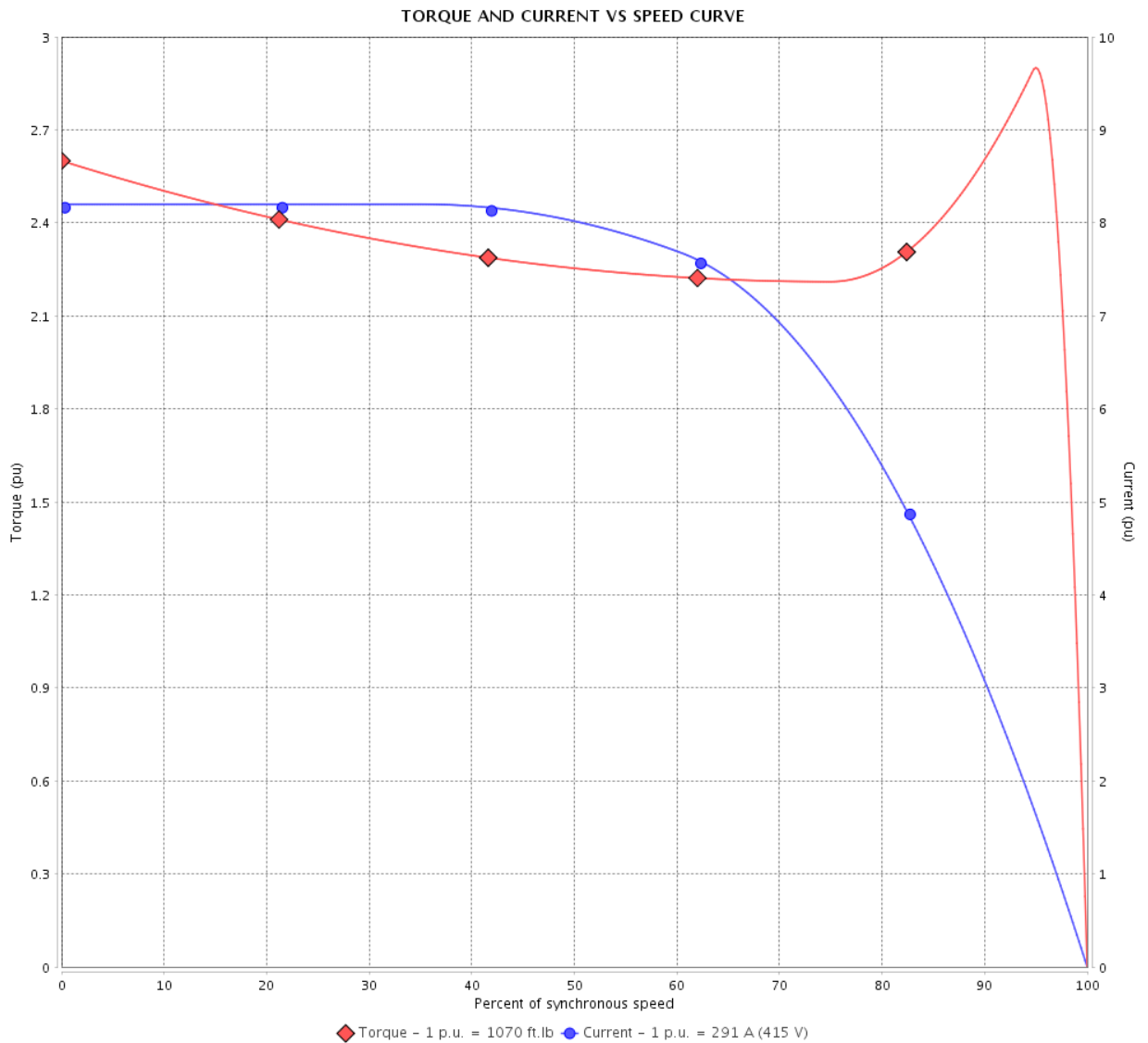
Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W40 NEMA Premium Efficiency
Three-Phase

Product code : 13611338

Catalog # : 25012OT3G447/9T-W40



Performance : 415 V 50 Hz 6P IE1

Rated current	: 291 A	Moment of inertia (J)	: 115 sq.ft.lb
LRC	: 8.2	Duty cycle	: Cont.(S1)
Rated torque	: 1070 ft.lb	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.00
Breakdown torque	: 290 %	Temperature rise	: 105 K
Rated speed	: 985 rpm	Design	: A

Locked rotor time : 16s (cold) 9s (hot)

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Three Phase Induction Motor - Squirrel Cage

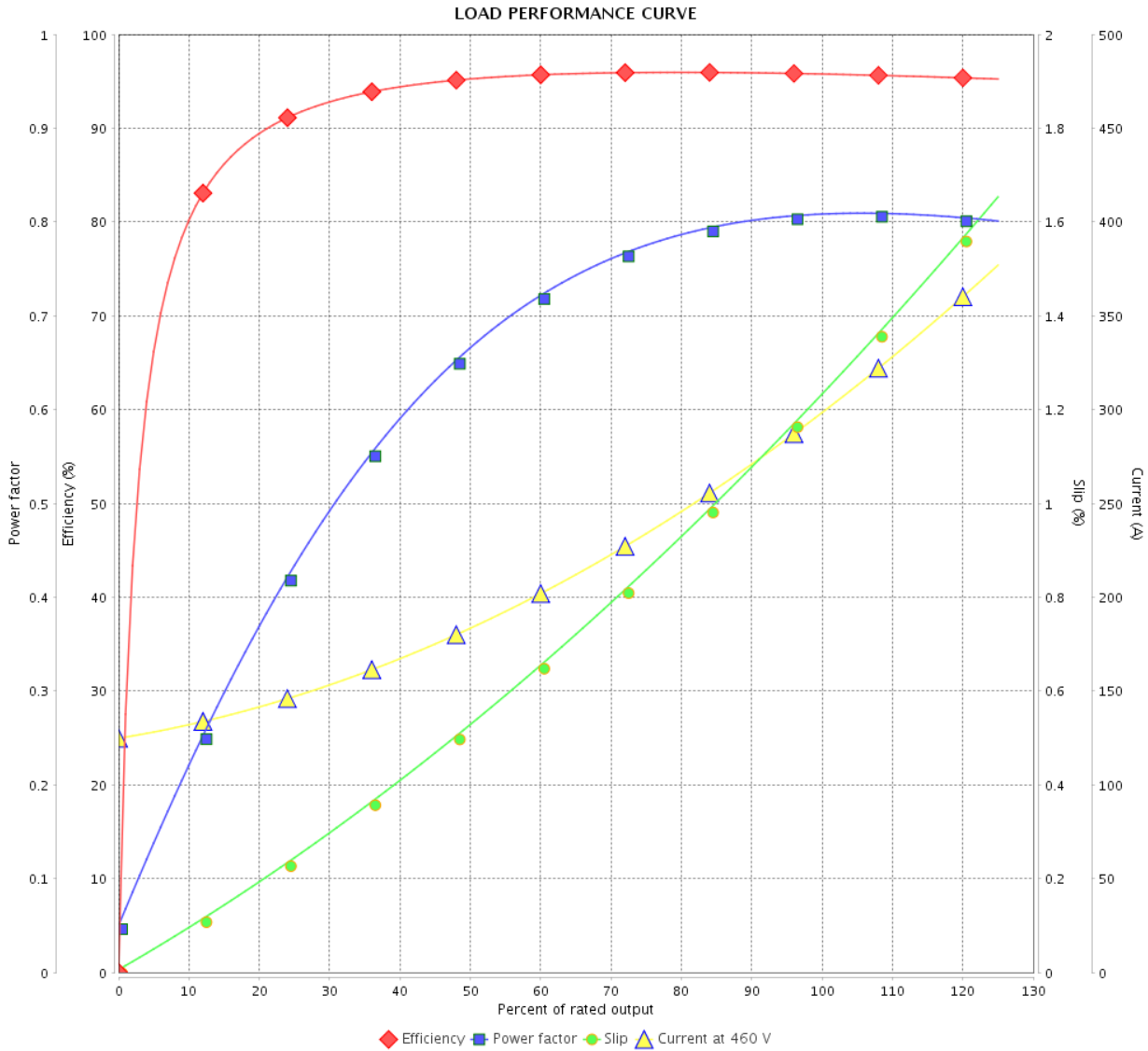


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Catalog # : 25012OT3G447/9T-W40



Performance : 460 V 60 Hz 6P

Rated current	: 299 A	Moment of inertia (J)	: 115 sq.ft.lb
LRC	: 6.5	Duty cycle	: Cont.(S1)
Rated torque	: 1110 ft.lb	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.15
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 1185 rpm	Design	: A

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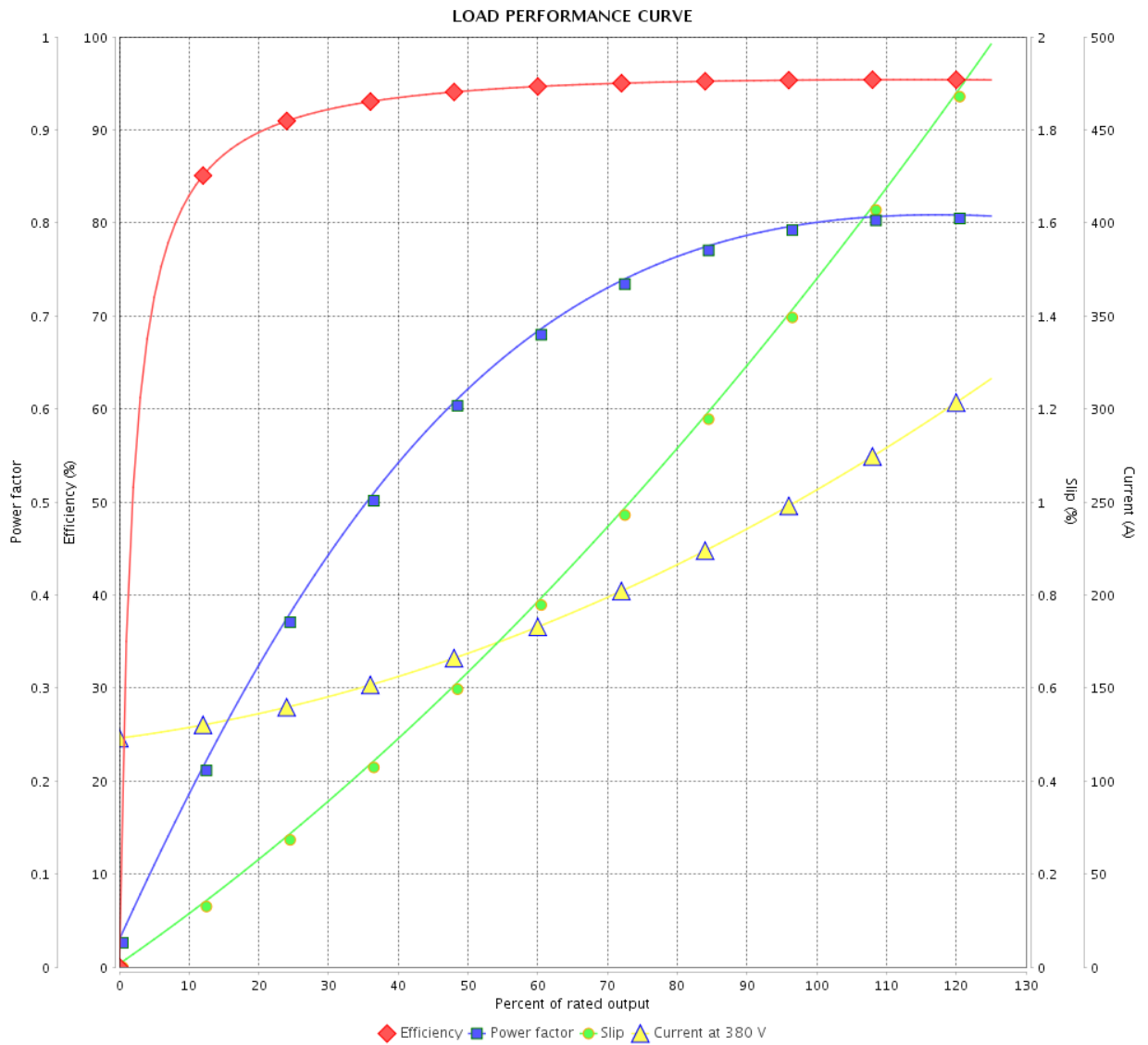


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Product code : 13611338

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Performance : 380 V 50 Hz 6P IE3

Rated current : 263 A
 LRC : 7.0
 Rated torque : 933 ft.lb
 Locked rotor torque : 229 %
 Breakdown torque : 270 %
 Rated speed : 985 rpm

Moment of inertia (J) : 115 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : A

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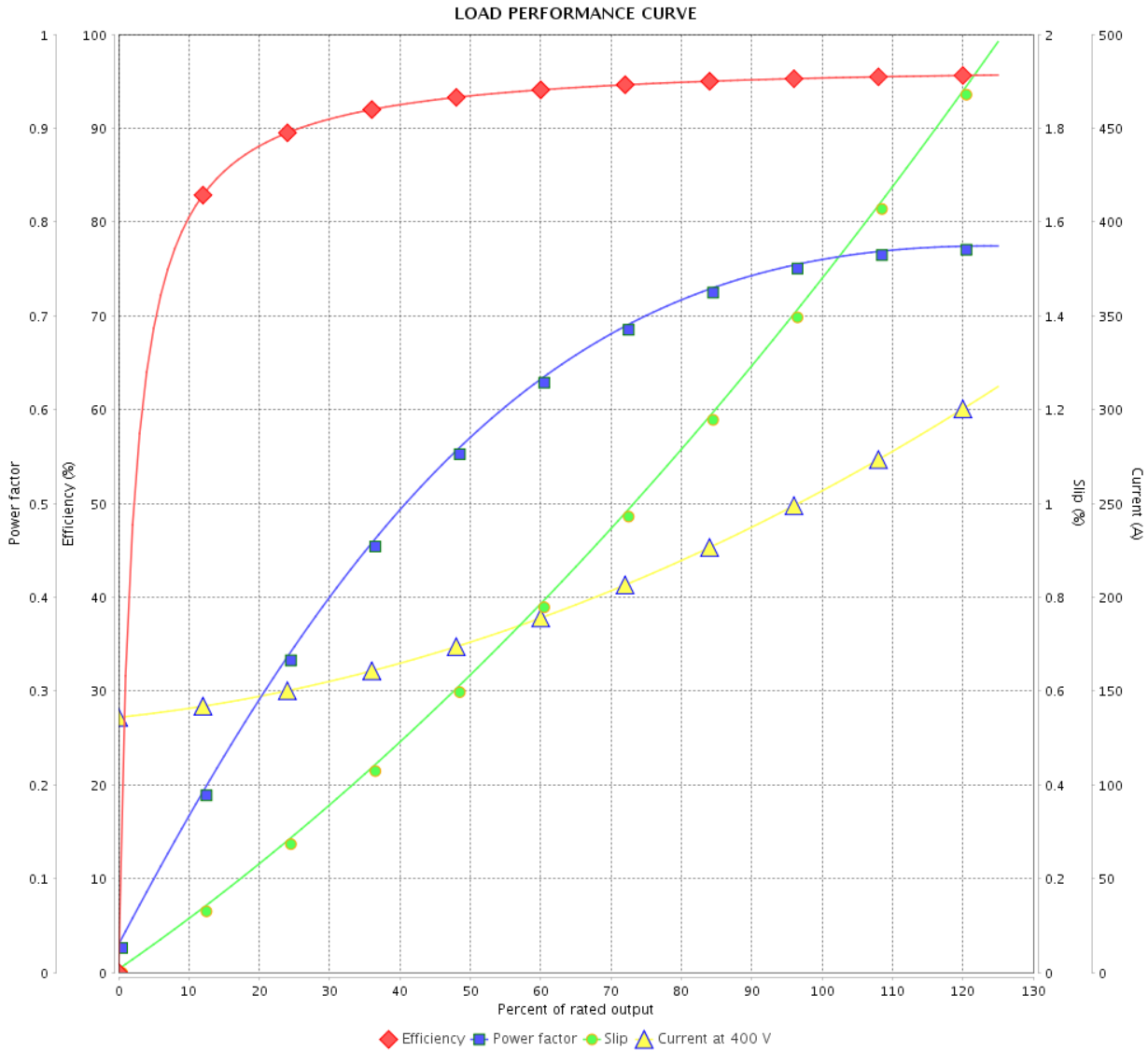


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Performance : 400 V 50 Hz 6P IE3

Rated current : 263 A
 LRC : 7.6
 Rated torque : 933 ft.lb
 Locked rotor torque : 260 %
 Breakdown torque : 310 %
 Rated speed : 985 rpm

Moment of inertia (J) : 115 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : A

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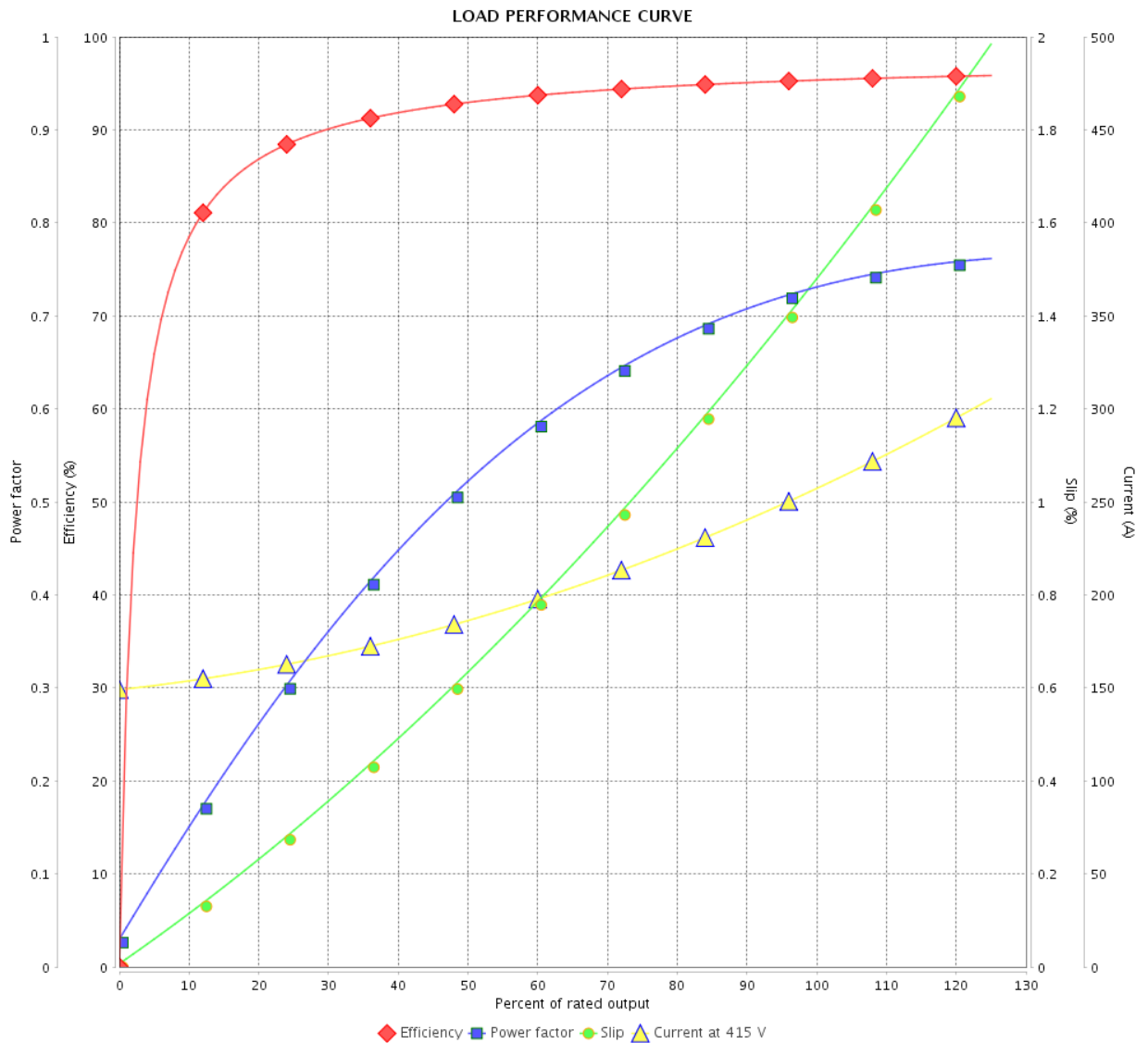


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Product code : 13611338

Catalog # : 25012OT3G447/9T-W40



Performance : 415 V 50 Hz 6P IE3

Rated current : 264 A
 LRC : 9.0
 Rated torque : 933 ft.lb
 Locked rotor torque : 300 %
 Breakdown torque : 330 %
 Rated speed : 985 rpm

Moment of inertia (J) : 115 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : A

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Three Phase Induction Motor - Squirrel Cage

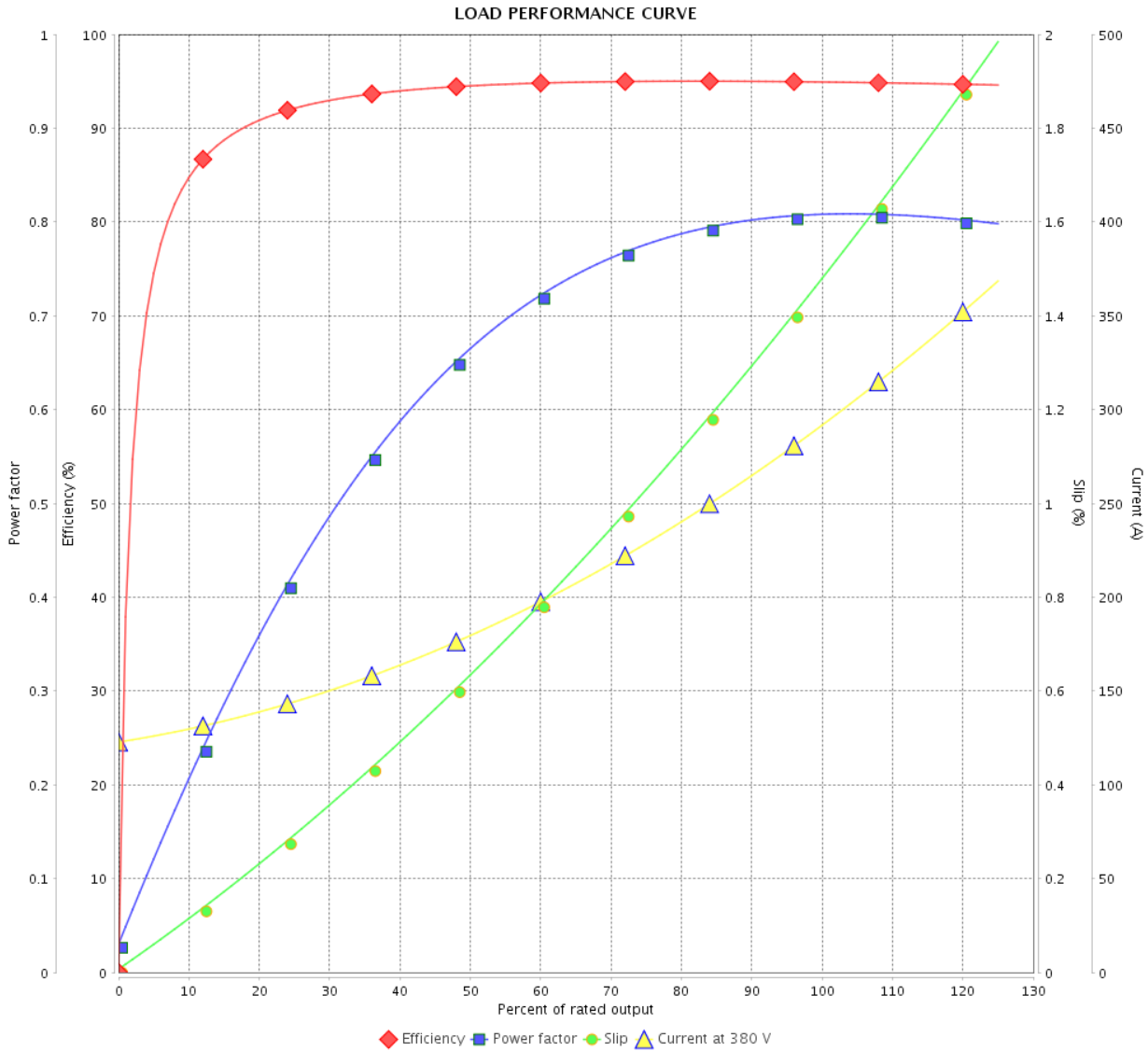


Customer :

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Product code : 13611338

Catalog # : 25012OT3G447/9T-W40



Performance : 380 V 50 Hz 6P IE2

Rated current	: 296 A	Moment of inertia (J)	: 115 sq.ft.lb
LRC	: 6.2	Duty cycle	: Cont.(S1)
Rated torque	: 1070 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.00
Breakdown torque	: 240 %	Temperature rise	: 105 K
Rated speed	: 985 rpm	Design	: A

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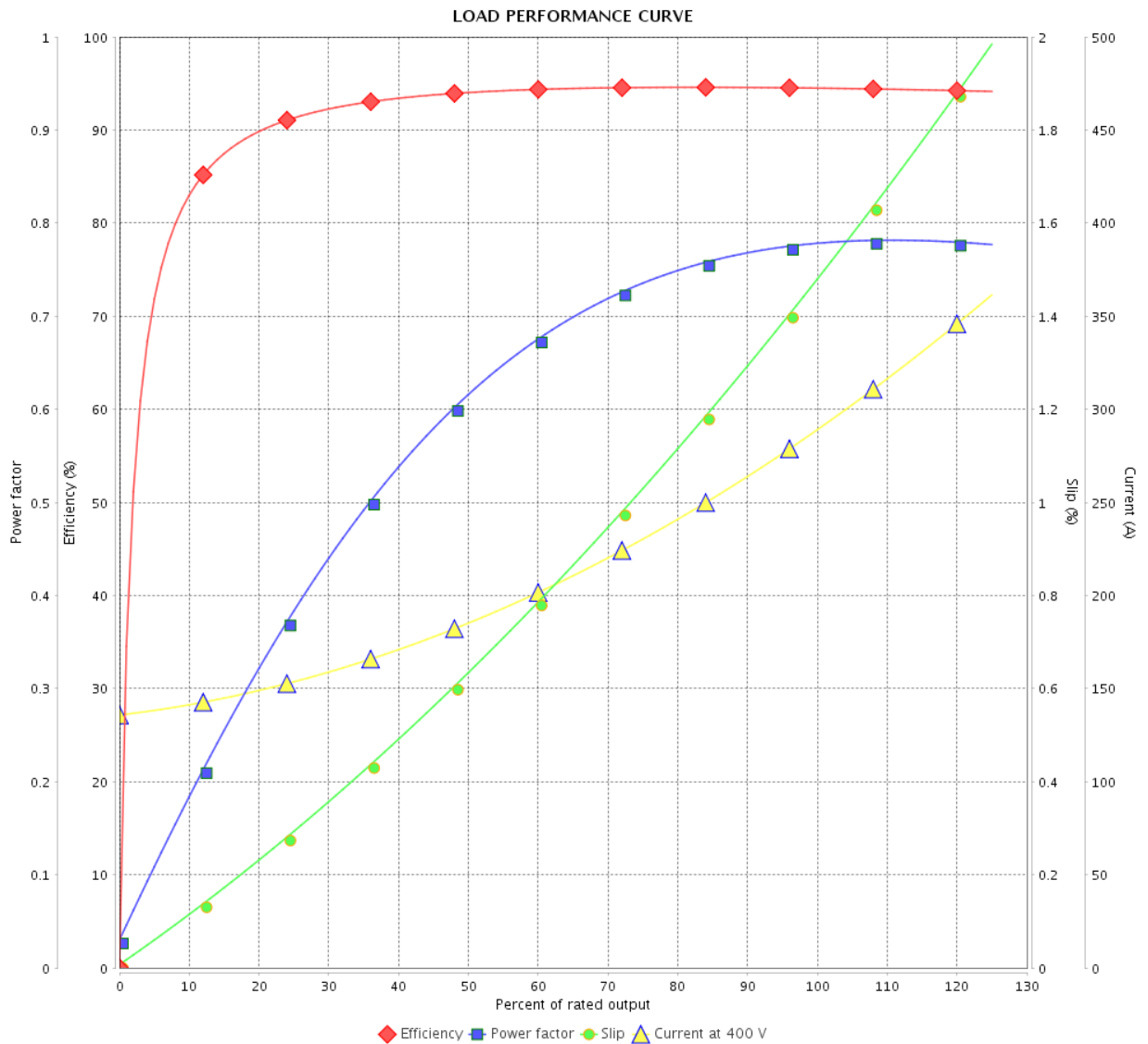


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Product code : 13611338

Catalog # : 25012OT3G447/9T-W40



Performance : 400 V 50 Hz 6P IE1

Rated current : 294 A
 LRC : 6.8
 Rated torque : 1070 ft.lb
 Locked rotor torque : 229 %
 Breakdown torque : 270 %
 Rated speed : 985 rpm

Moment of inertia (J) : 115 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : A

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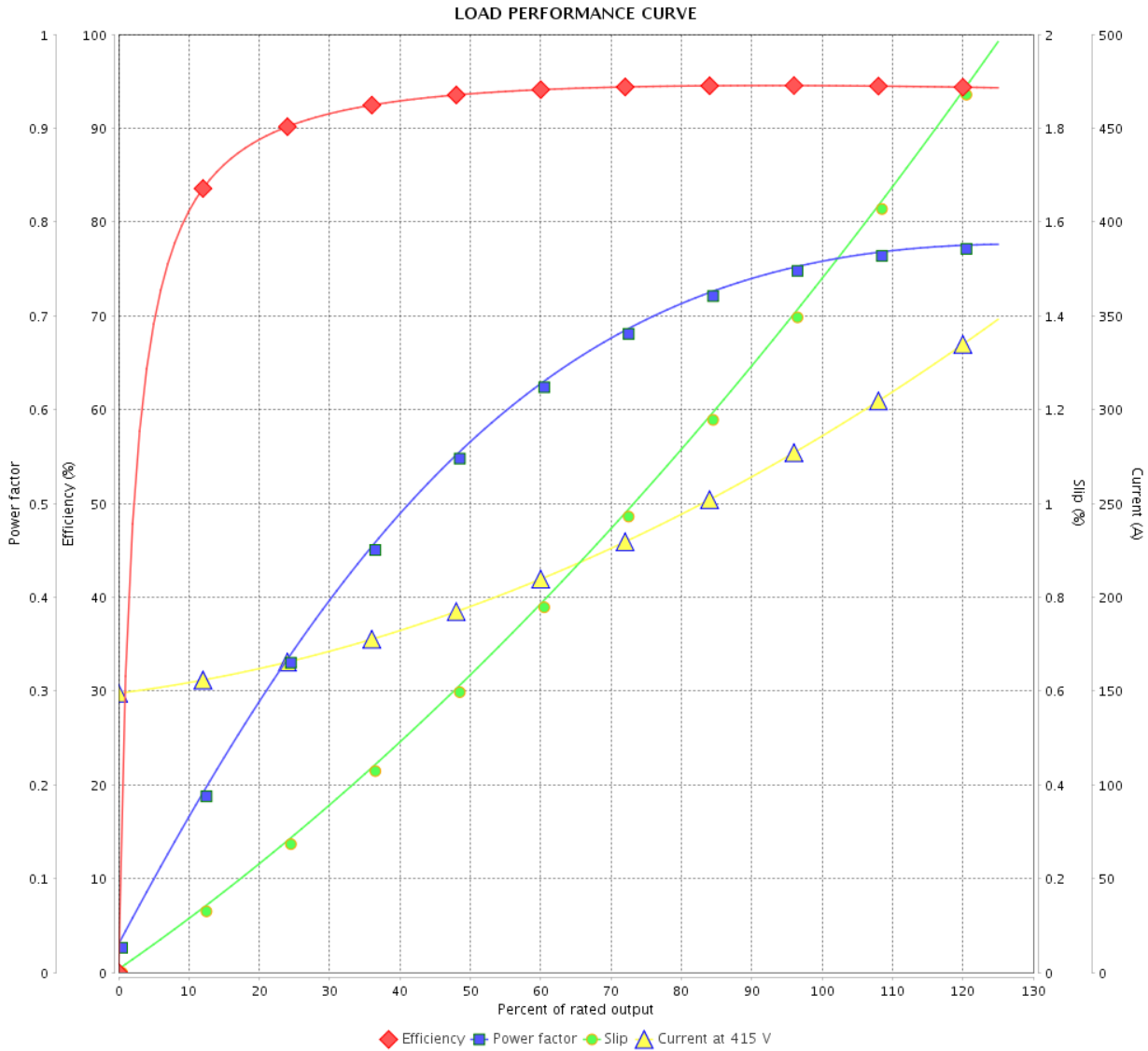


Customer :

Product line : W40 NEMA Premium Efficiency
Three-Phase

Product code : 13611338

Catalog # : 250120T3G447/9T-W40



Performance : 415 V 50 Hz 6P IE1

Rated current	: 291 A	Moment of inertia (J)	: 115 sq.ft.lb
LRC	: 8.2	Duty cycle	: Cont.(S1)
Rated torque	: 1070 ft.lb	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.00
Breakdown torque	: 290 %	Temperature rise	: 105 K
Rated speed	: 985 rpm	Design	: A

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THERMAL LIMIT CURVE

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Performance : 460 V 60 Hz 6P

Rated current : 299 A
LRC : 6.5
Rated torque : 1110 ft.lb
Locked rotor torque : 220 %
Breakdown torque : 240 %
Rated speed : 1185 rpm

Moment of inertia (J) : 115 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : A

Heating constant

Cooling constant

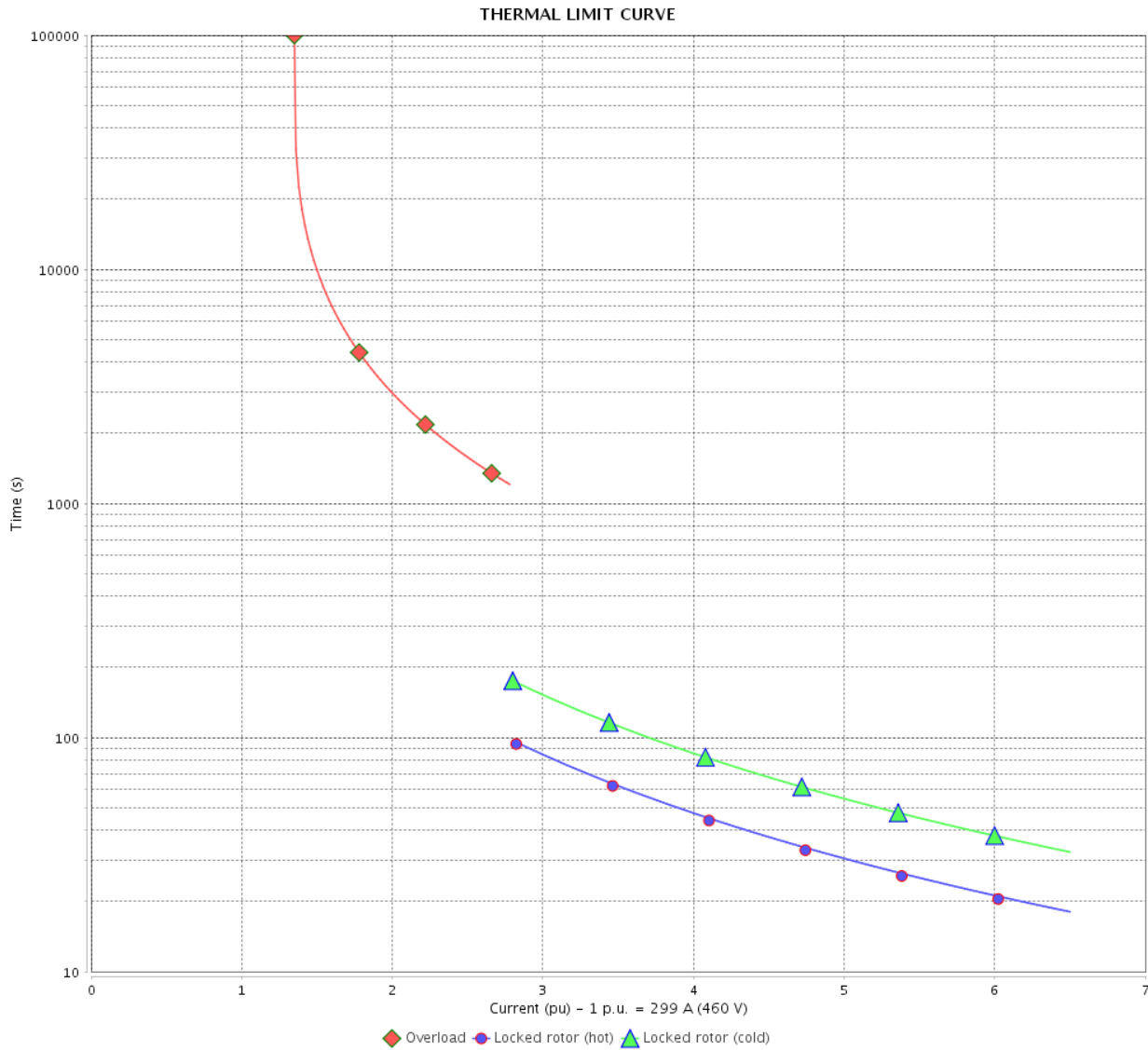
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Performance : 380 V 50 Hz 6P IE3

Rated current : 263 A
LRC : 7.0
Rated torque : 933 ft.lb
Locked rotor torque : 229 %
Breakdown torque : 270 %
Rated speed : 985 rpm

Moment of inertia (J) : 115 sq.ft.lb
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Heating constant

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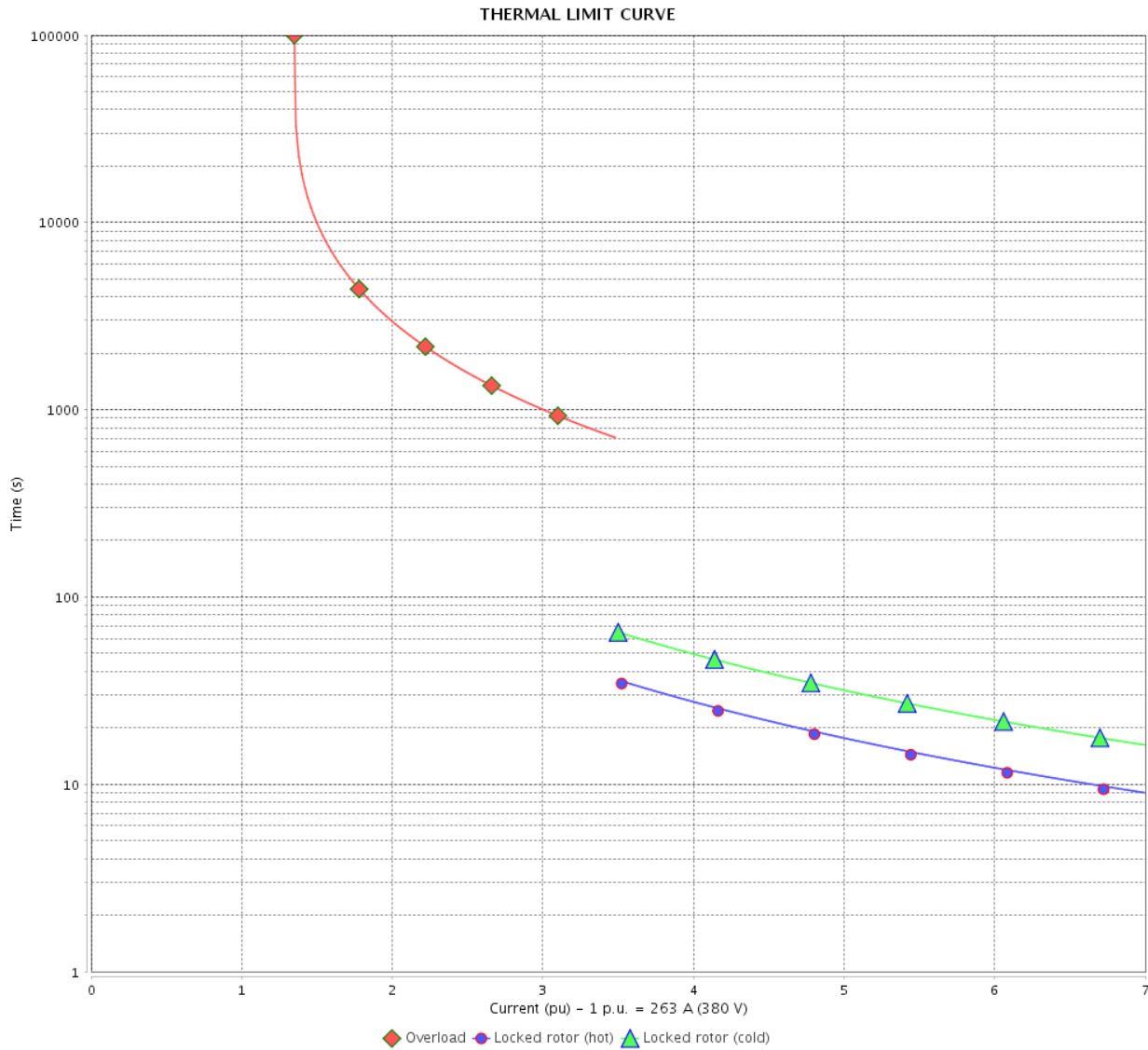
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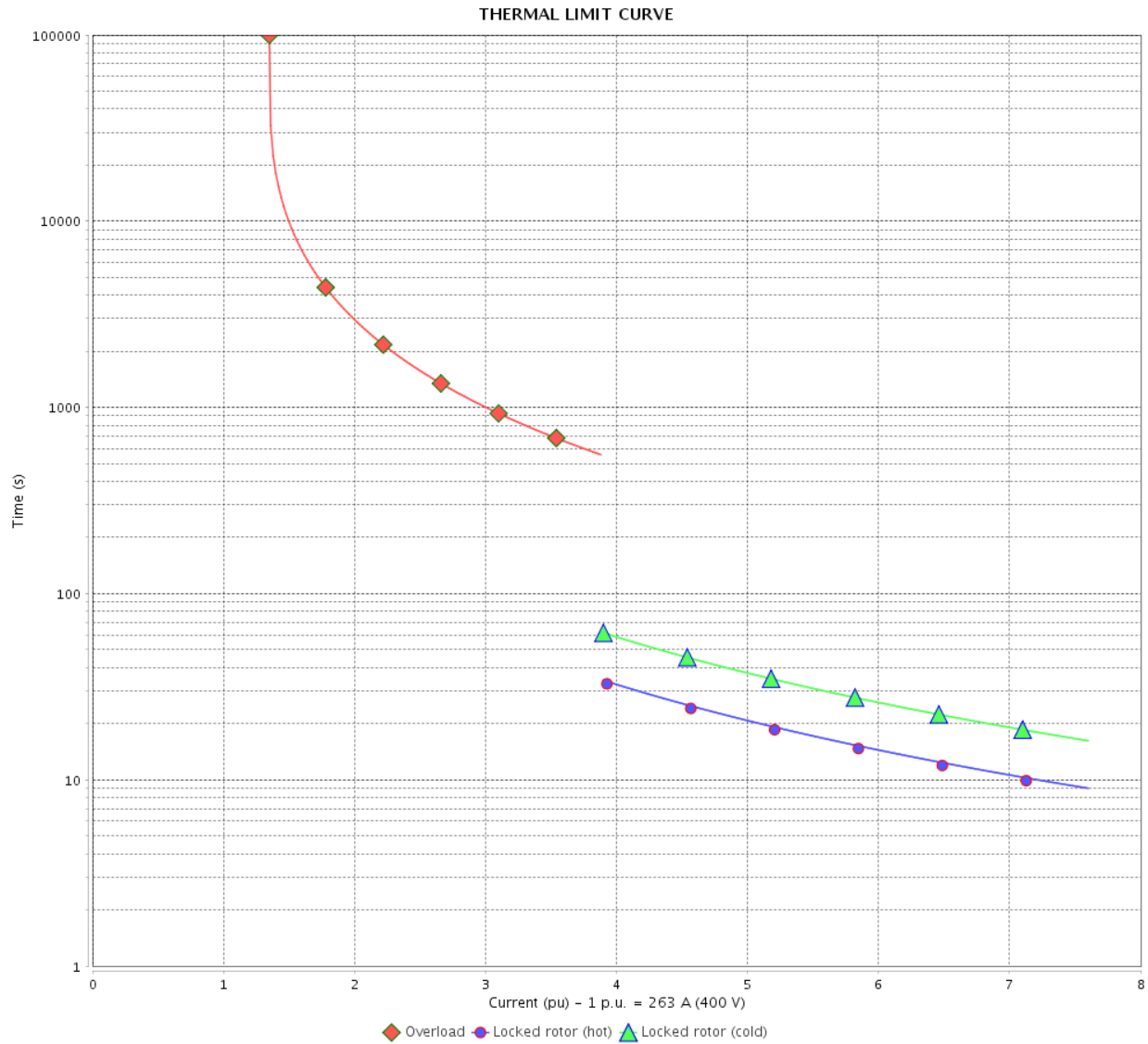
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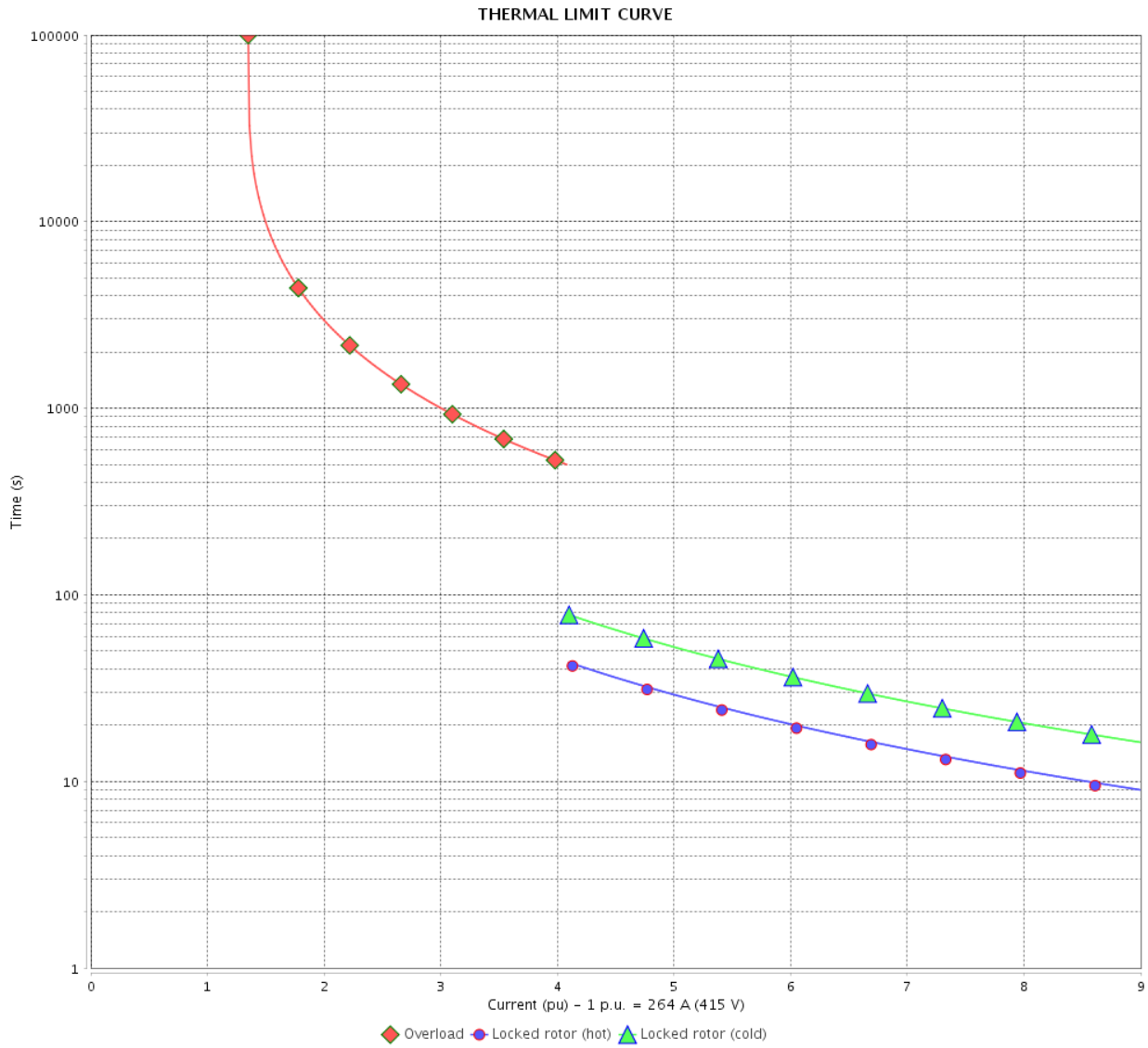
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LRC : 6.2	Duty cycle : Cont.(S1)
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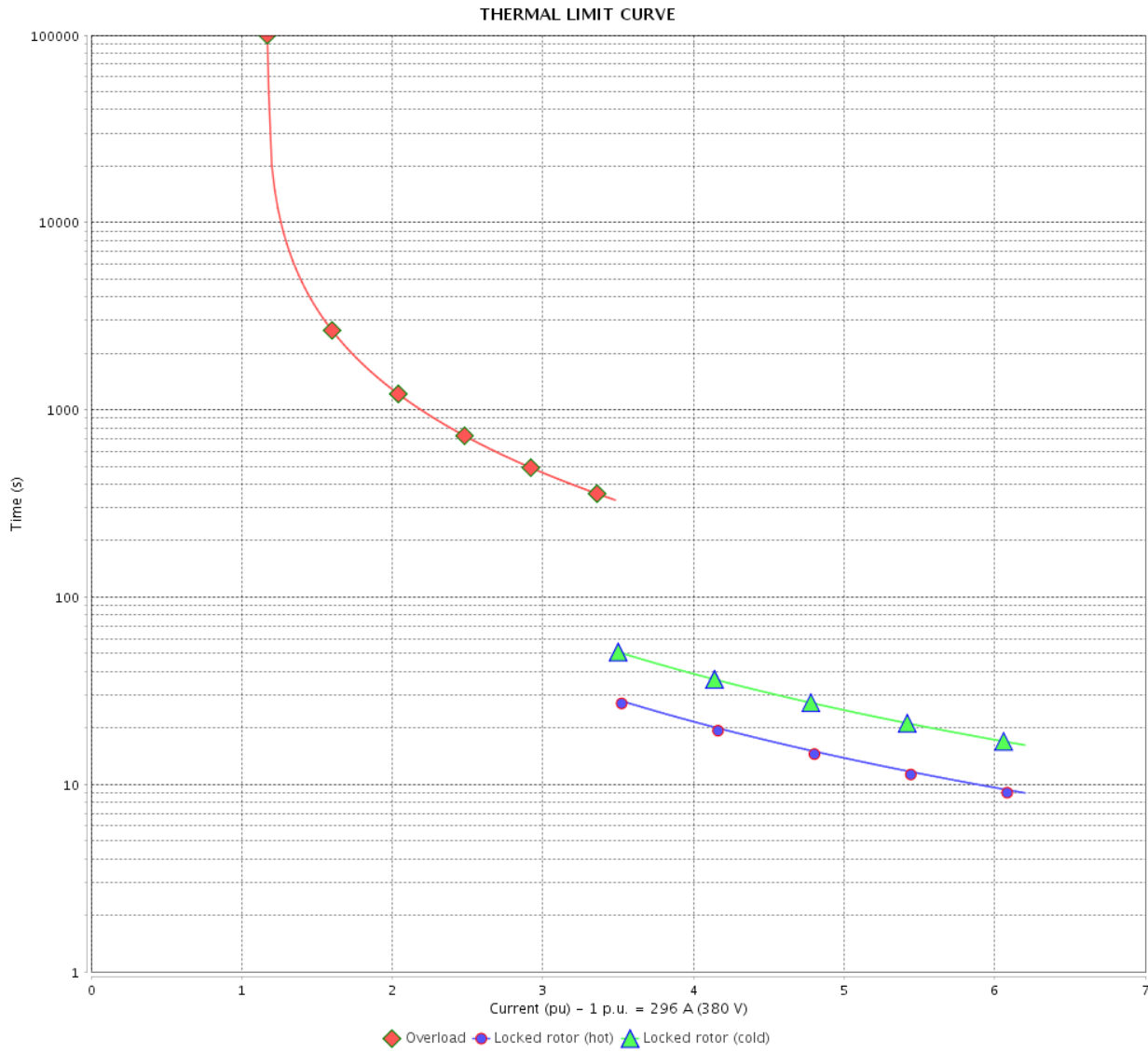
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Rated current : 294 A
LRC : 6.8
Rated torque : 1070 ft.lb
Locked rotor torque : 229 %
Breakdown torque : 270 %
Rated speed : 985 rpm

Moment of inertia (J) : 115 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 105 K
Design : A

Heating constant

Cooling constant

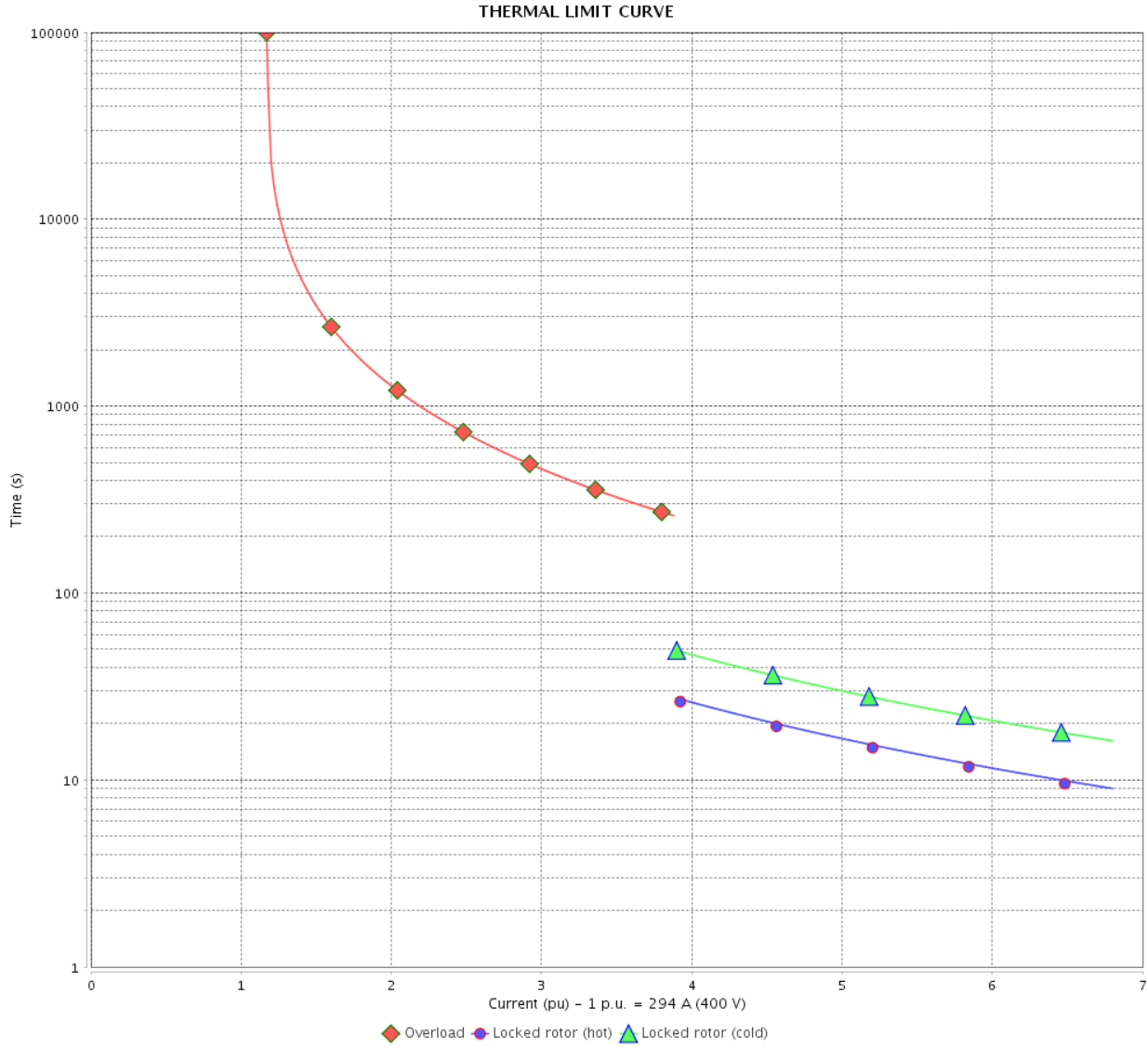
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Performed by				
Checked by			Page	Revision
Date	13/04/2022		27 / 37	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

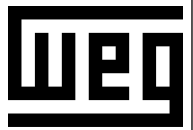


Customer : _____



Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page		Revision
Checked by		28 / 37		
Date		13/04/2022		

THERMAL LIMIT CURVE



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase
 Product code : 13611338
 Catalog # : 25012OT3G447/9T-W40

Performance : 415 V 50 Hz 6P IE1

Rated current : 291 A	Moment of inertia (J) : 115 sq.ft.lb
LRC : 8.2	Duty cycle : Cont.(S1)
Rated torque : 1070 ft.lb	Insulation class : F
Locked rotor torque : 260 %	Service factor : 1.00
Breakdown torque : 290 %	Temperature rise : 105 K
Rated speed : 985 rpm	Design : A

Heating constant

Cooling constant

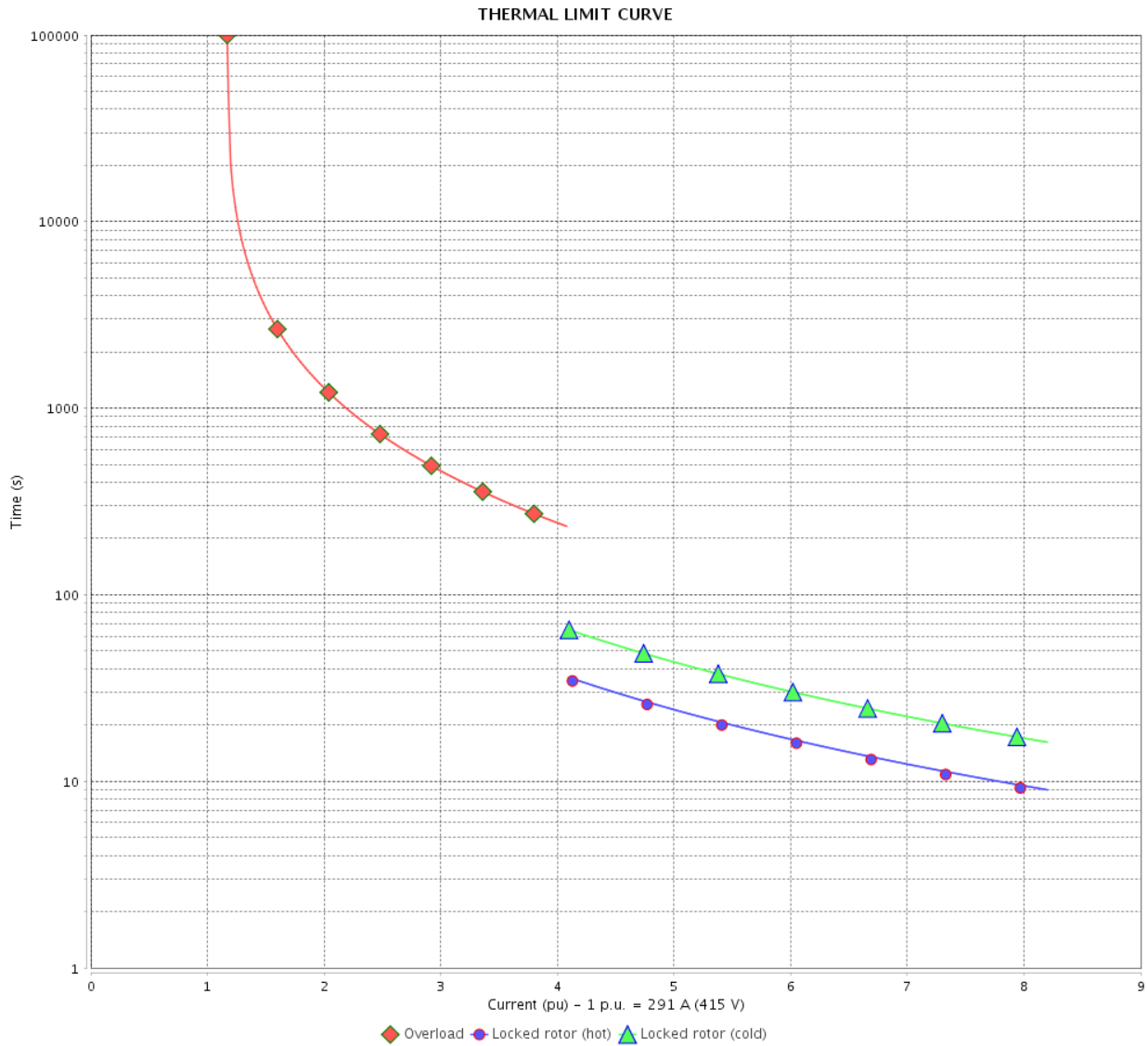
Rev.	Changes Summary	Performed	Checked	Date
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Checked by				
Date	13/04/2022			

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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Date				

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

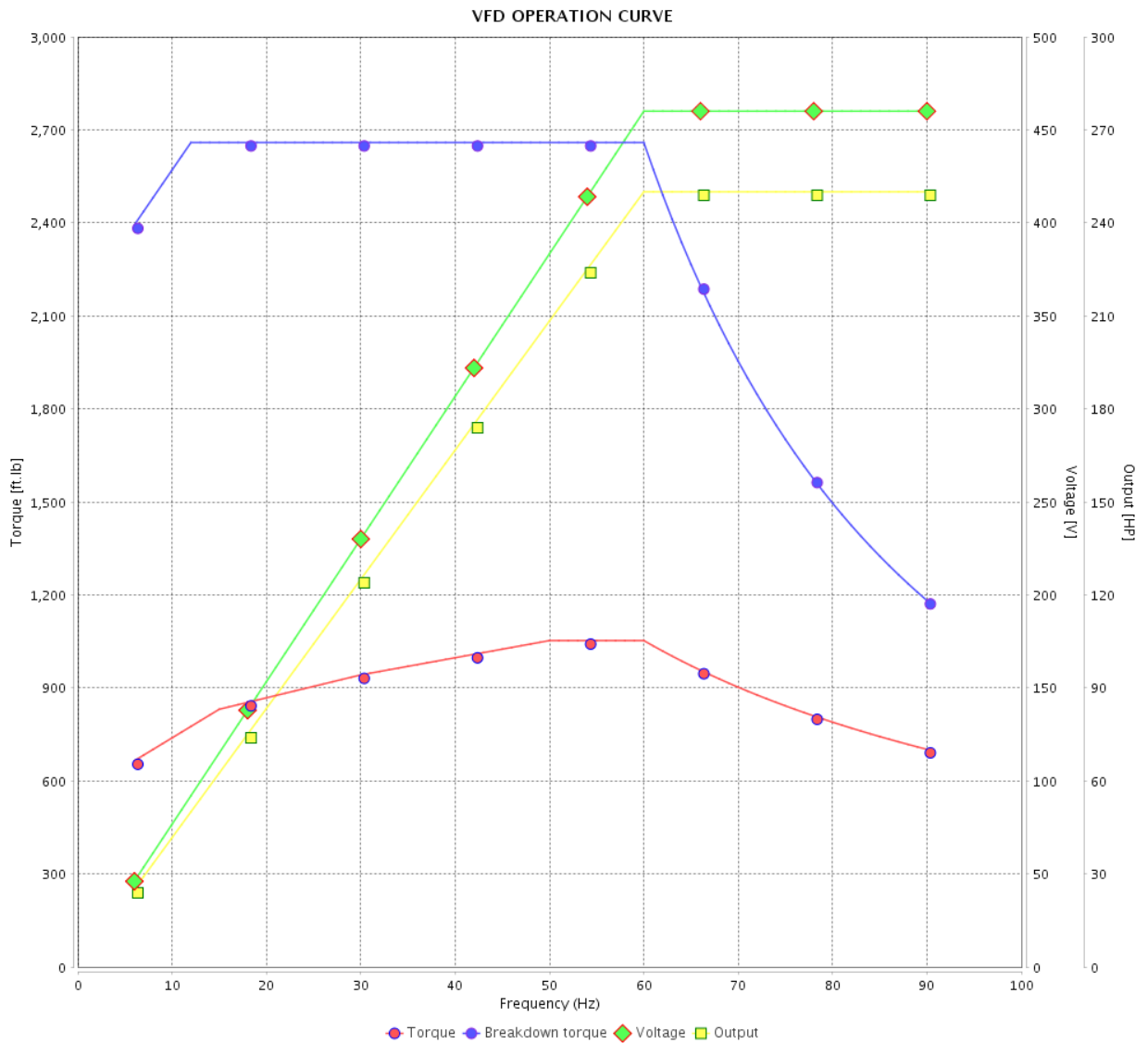


Customer :

Product line : W40 NEMA Premium Efficiency
Three-Phase

Product code : 13611338

Catalog # : 25012OT3G447/9T-W40



Performance : 460 V 60 Hz 6P

Rated current : 299 A
LRC : 6.5
Rated torque : 1110 ft.lb
Locked rotor torque : 220 %
Breakdown torque : 240 %
Rated speed : 1185 rpm

Moment of inertia (J) : 115 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : A

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page		Revision
Checked by		31 / 37		
Date		13/04/2022		

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

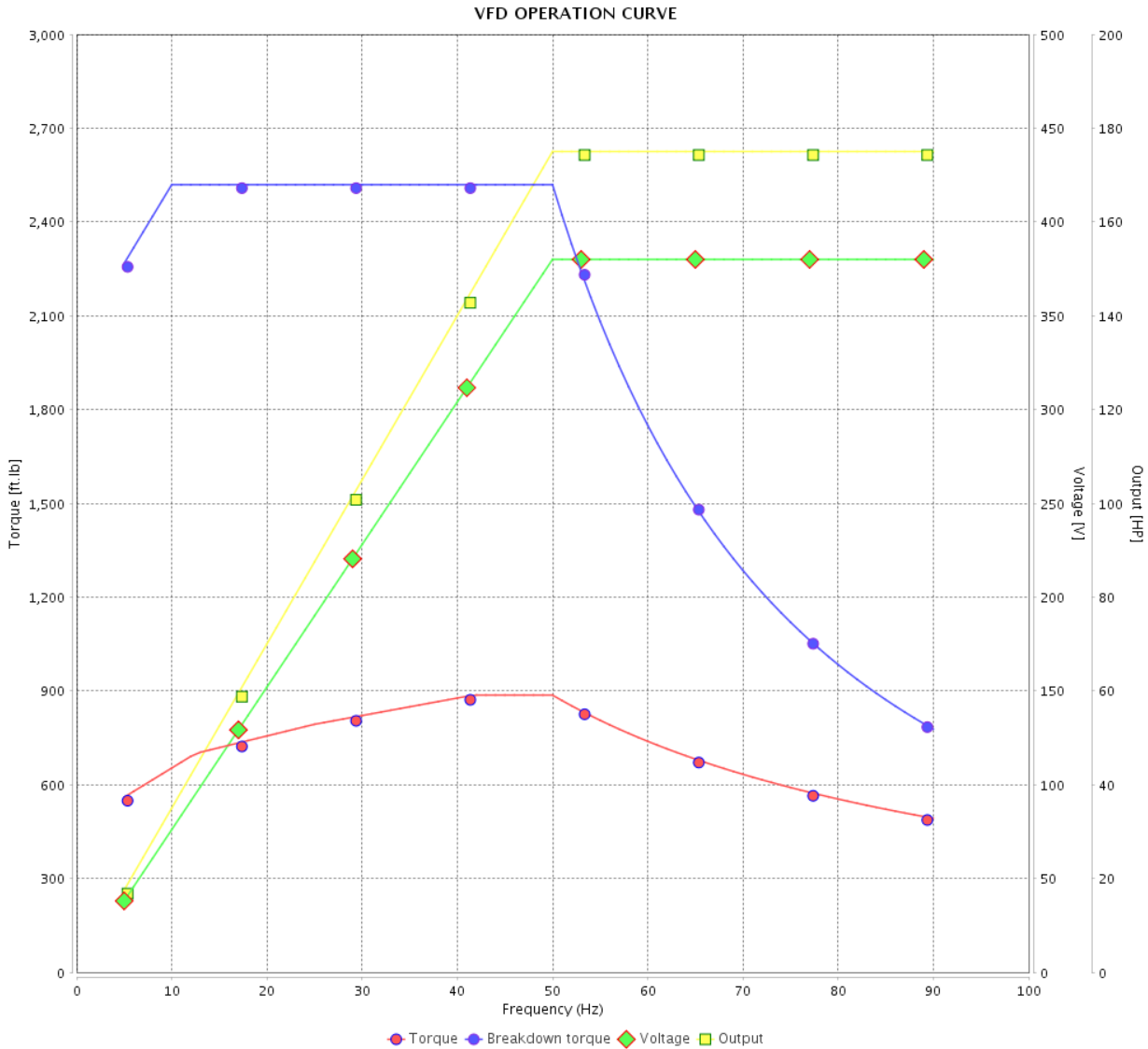


Customer : _____

Product line : W40 NEMA Premium Efficiency
Three-Phase

Product code : 13611338

Catalog # : 25012OT3G447/9T-W40



Performance : 380 V 50 Hz 6P IE3

Rated current : 263 A
LRC : 7.0
Rated torque : 933 ft.lb
Locked rotor torque : 229 %
Breakdown torque : 270 %
Rated speed : 985 rpm

Moment of inertia (J) : 115 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : A

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Performed by			Page 32 / 37	Revision
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Date	13/04/2022			

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

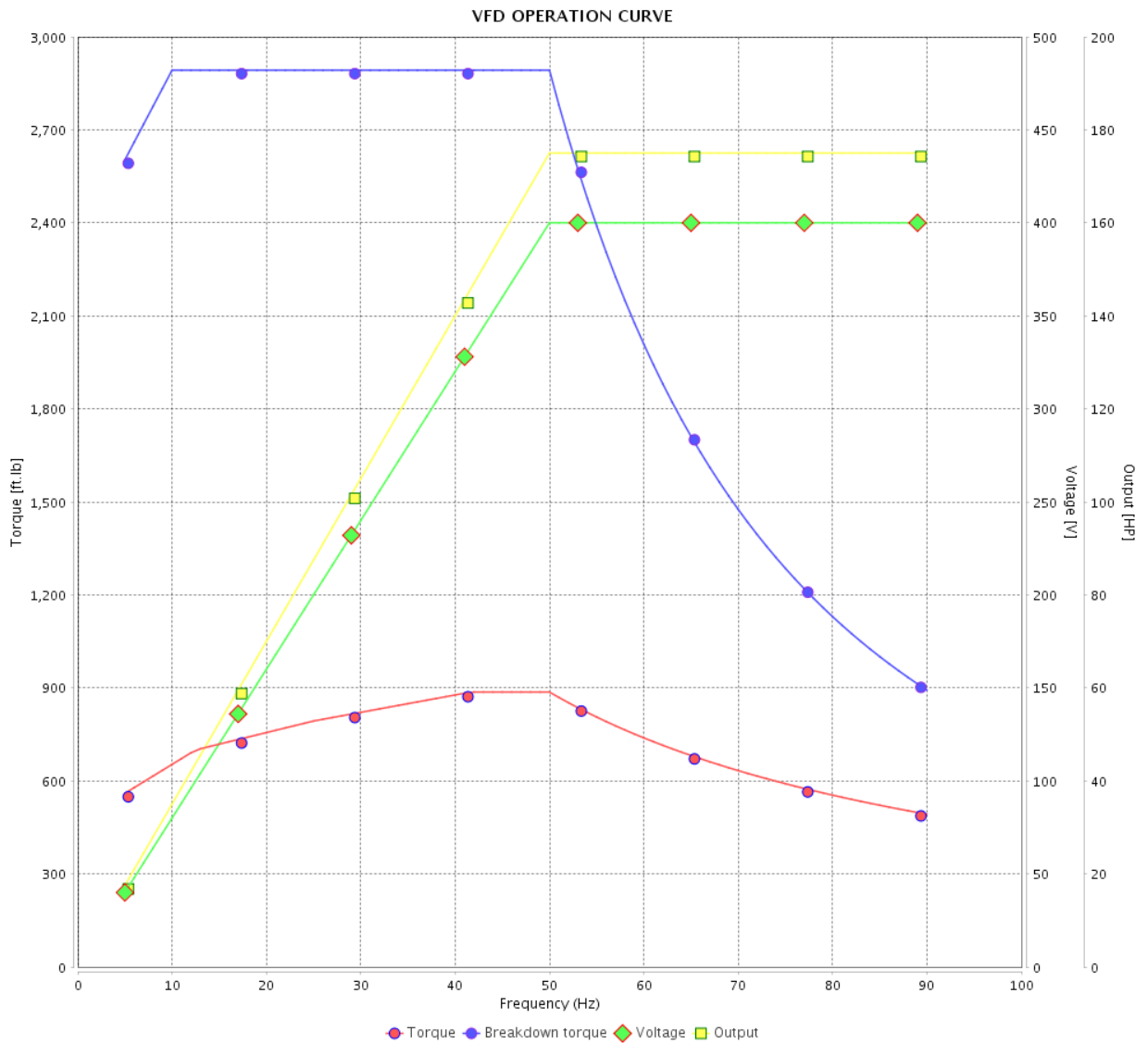


Customer :

Product line : W40 NEMA Premium Efficiency
Three-Phase

Product code : 13611338

Catalog # : 25012OT3G447/9T-W40



Performance : 400 V 50 Hz 6P IE3

Rated current : 263 A
LRC : 7.6
Rated torque : 933 ft.lb
Locked rotor torque : 260 %
Breakdown torque : 310 %
Rated speed : 985 rpm

Moment of inertia (J) : 115 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : A

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Performed by		Page		Revision
Checked by		33 / 37		
Date		13/04/2022		

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



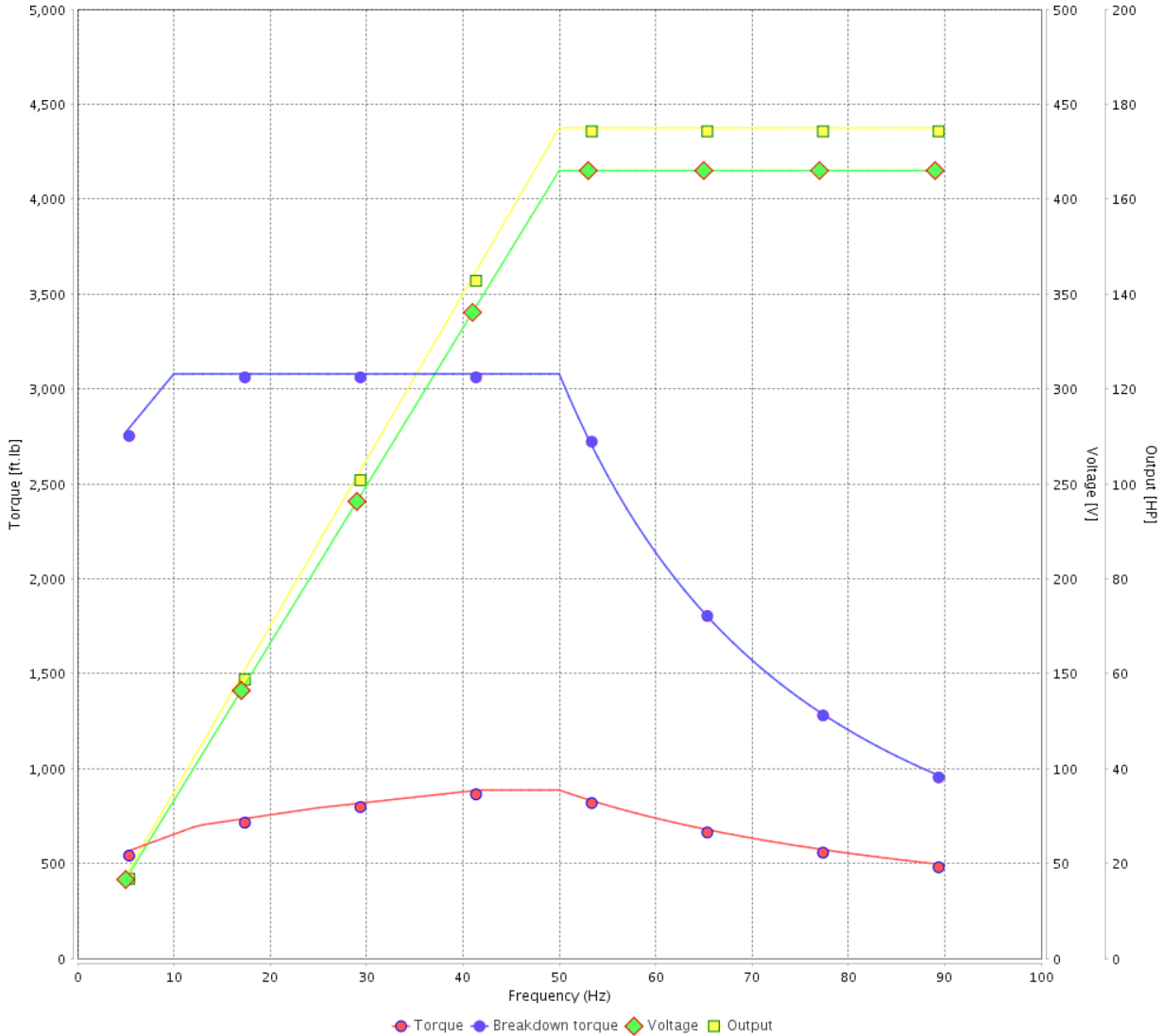
Customer :

Product line : W40 NEMA Premium Efficiency
Three-Phase

Product code : 13611338

Catalog # : 25012OT3G447/9T-W40

VFD OPERATION CURVE



Performance : 415 V 50 Hz 6P IE3

Rated current	: 264 A	Moment of inertia (J)	: 115 sq.ft.lb
LRC	: 9.0	Duty cycle	: Cont.(S1)
Rated torque	: 933 ft.lb	Insulation class	: F
Locked rotor torque	: 300 %	Service factor	: 1.15
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 985 rpm	Design	: A

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Date	13/04/2022			

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

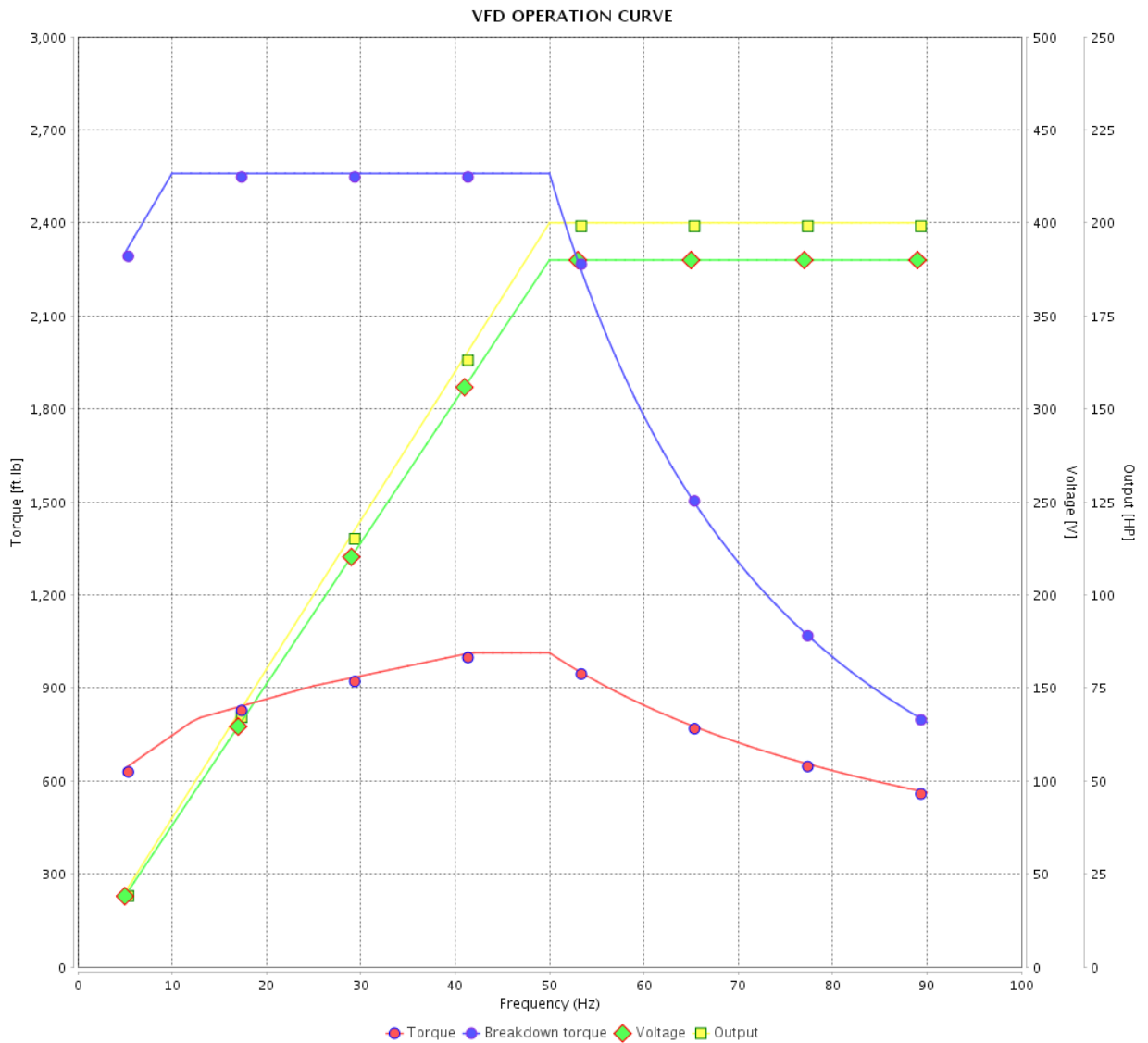


Customer :

Product line : W40 NEMA Premium Efficiency
Three-Phase

Product code : 13611338

Catalog # : 25012OT3G447/9T-W40



Performance : 380 V 50 Hz 6P IE2

Rated current : 296 A
LRC : 6.2
Rated torque : 1070 ft.lb
Locked rotor torque : 200 %
Breakdown torque : 240 %
Rated speed : 985 rpm

Moment of inertia (J) : 115 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 105 K
Design : A

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				Revision

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

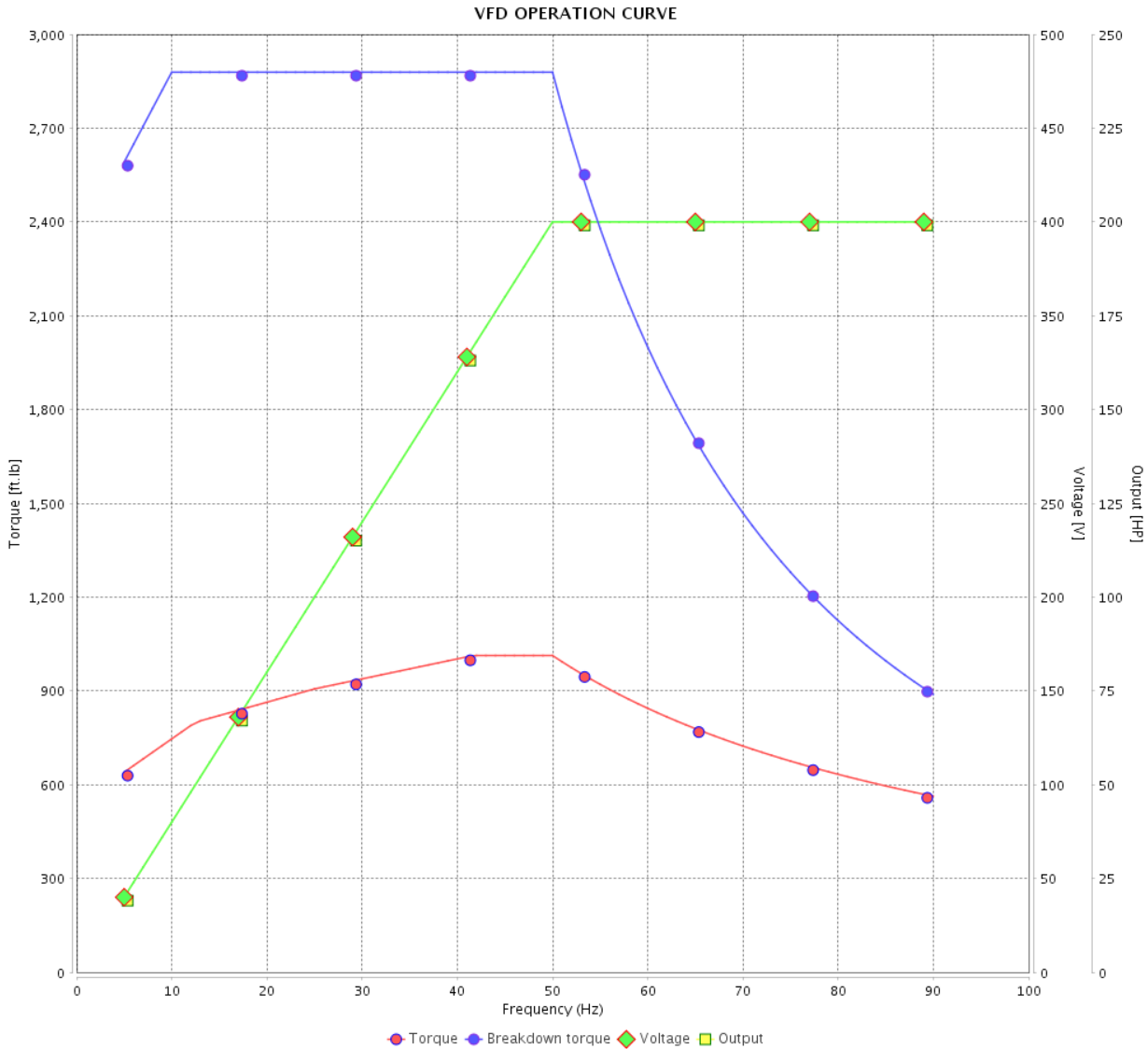


Customer : _____

Product line : W40 NEMA Premium Efficiency
Three-Phase

Product code : 13611338

Catalog # : 25012OT3G447/9T-W40



Performance : 400 V 50 Hz 6P IE1

Rated current : 294 A
 LRC : 6.8
 Rated torque : 1070 ft.lb
 Locked rotor torque : 229 %
 Breakdown torque : 270 %
 Rated speed : 985 rpm

Moment of inertia (J) : 115 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 36 / 37		Revision
Checked by				
Date				

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

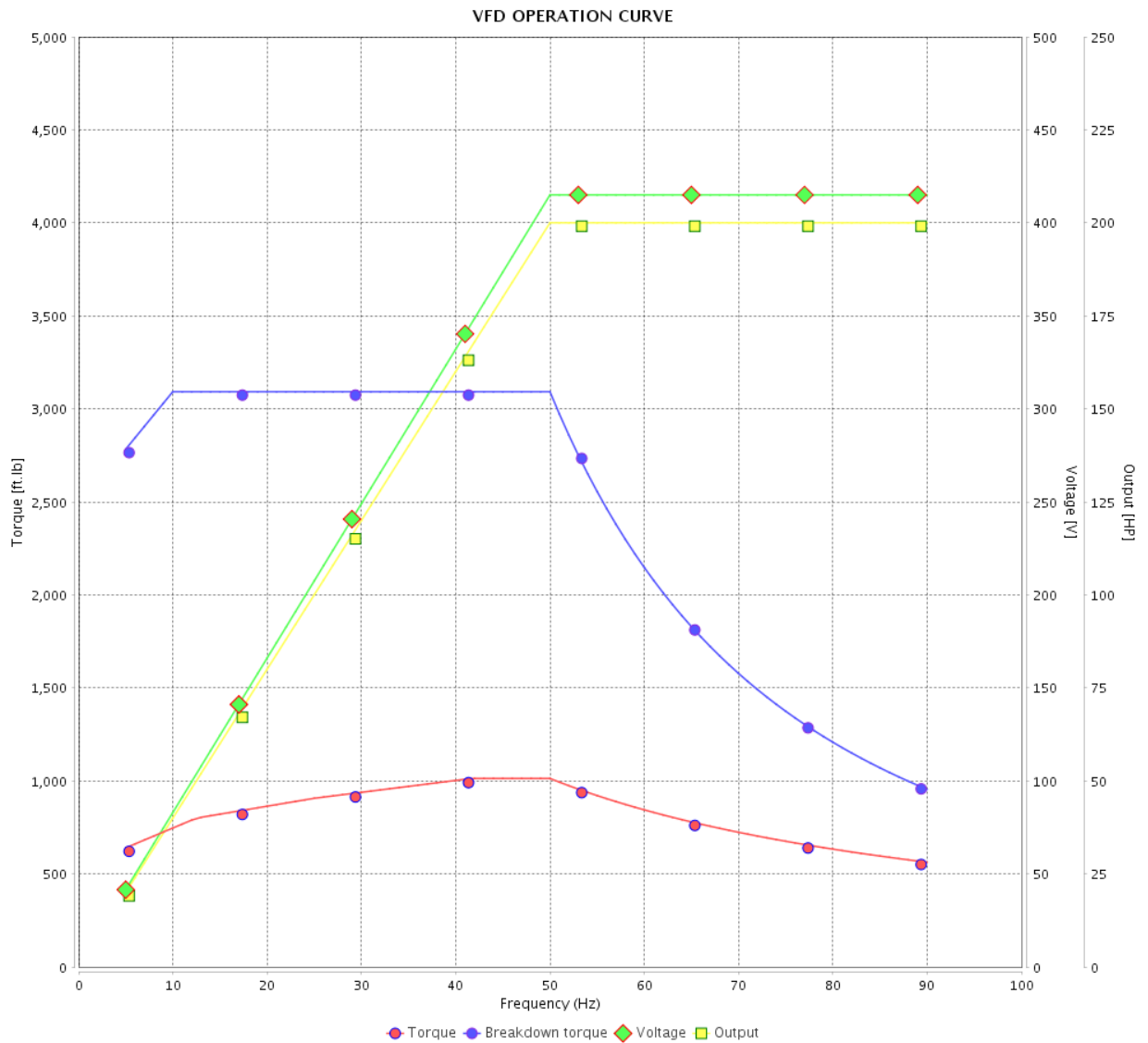


Customer :

Product line : W40 NEMA Premium Efficiency
Three-Phase

Product code : 13611338

Catalog # : 25012OT3G447/9T-W40

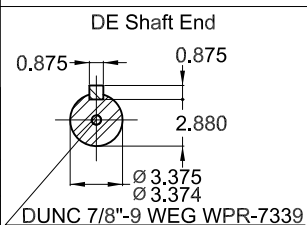
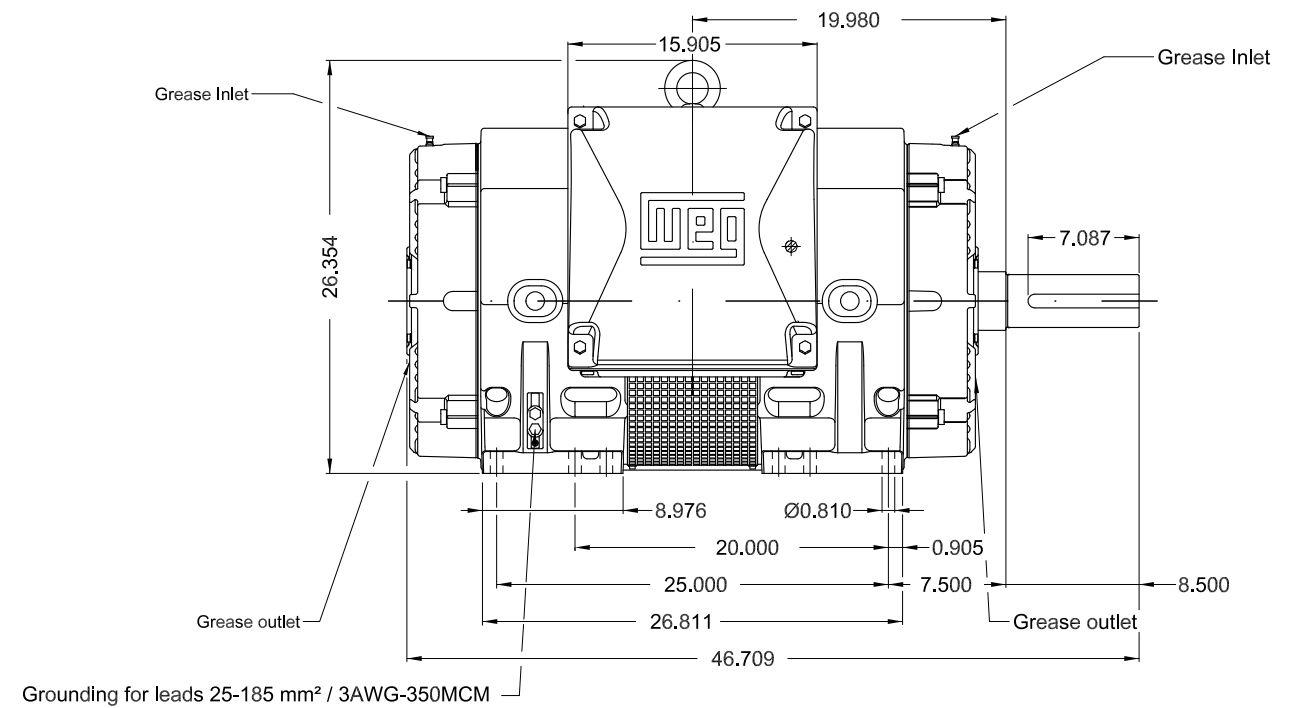
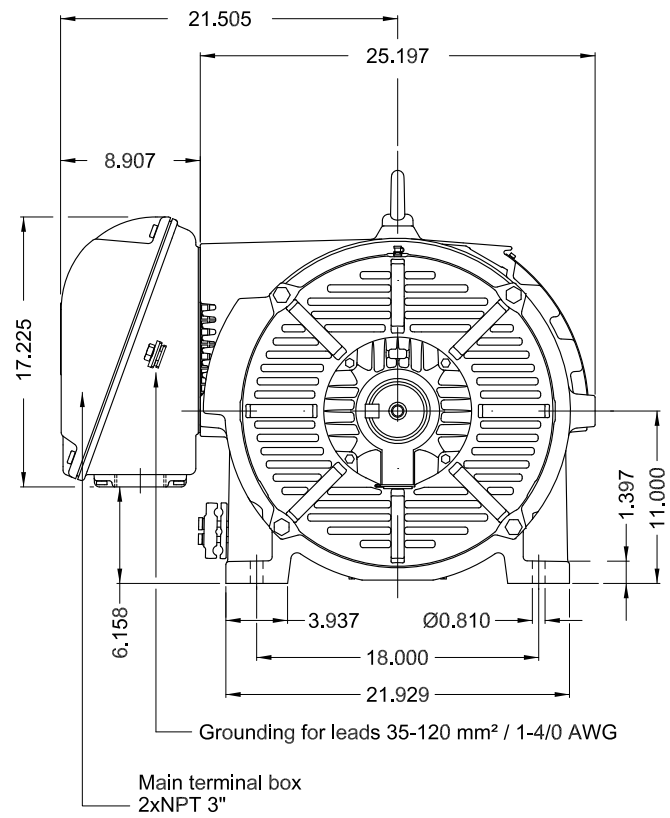


Performance : 415 V 50 Hz 6P IE1

Rated current : 291 A
LRC : 8.2
Rated torque : 1070 ft.lb
Locked rotor torque : 260 %
Breakdown torque : 290 %
Rated speed : 985 rpm

Moment of inertia (J) : 115 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		Revision
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Date	13/04/2022			



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

250 HP 06 Poles 60 Hz

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				

PREVIEW
WDD



SHEET 1 / 1

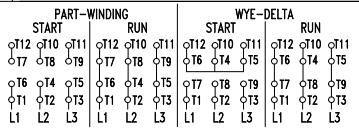
MODEL 250120T3G447/9T-W40
MADE IN BRAZIL
13611338



MOD.T01#FOXON



PH 3	FR 447/9T	HP(kW) 250(185)		Hz 60
V 460		A 299		IP23
NEMA NOM EFF		95.8	%	RPM 1185
ENCL ODP	DUTY CONT.		INS. CL. F ΔT 80 K	
PF 0.81		DES A	CODE G	AMB. 40°C
SF 1.15		SFA 344		ALT 1000 m.a.s.l.



 → 6319-C3(45g) MOBIL POLYREX EM
 → 6314-C3(27g) 20000 h

2178 Lbs