

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase Product code : 16684654
 Catalog # : 05018ST3QAP326T-W22

Frame	: 324/6T	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: W-8
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	: 607 lb
Protection degree	: IP56	Moment of inertia (J)	: 9.16 sq.ft.lb
Design	: B		

Output [HP]	50	40	40	40	50	50	50	
Poles	4	4	4	4	4	4	4	
Frequency [Hz]	60	50	50	50	50	50	50	
Rated voltage [V]	460	380	400	415	380	400	415	
Rated current [A]	59.2	58.7	57.1	56.4	71.6	68.4	66.3	
L. R. Amperes [A]	367	376	400	417	372	397	411	
LRC [A]	6.2x(Code G)	6.4x(Code G)	7.0x(Code H)	7.4x(Code J)	5.2x(Code E)	5.8x(Code F)	6.2x(Code G)	
No load current [A]	23.5	23.0	24.0	25.0	23.0	24.0	25.0	
Rated speed [RPM]	1775	1475	1477	1478	1460	1465	1470	
Slip [%]	1.39	1.67	1.53	1.47	2.67	2.33	2.00	
Rated torque [ft.lb]	148	142	142	142	180	179	179	
Locked rotor torque [%]	229	229	250	260	180	200	210	
Breakdown torque [%]	270	260	300	330	200	240	260	
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	27s (cold) 15s (hot)	19s (cold) 11s (hot)	19s (cold) 11s (hot)	19s (cold) 11s (hot)	19s (cold) 11s (hot)	19s (cold) 11s (hot)	19s (cold) 11s (hot)	
Noise level ²	70.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)	
Efficiency (%)	25%	92.5	91.9	90.6	90.3	93.3	92.2	91.8
	50%	93.0	92.5	91.5	91.1	93.0	92.4	92.4
	75%	94.1	93.1	92.8	93.0	93.0	93.0	93.0
	100%	94.5	93.6	93.6	93.6	92.4	93.0	93.5
Power Factor	25%	0.42	0.41	0.38	0.36	0.48	0.45	0.42
	50%	0.66	0.64	0.60	0.57	0.72	0.68	0.65
	75%	0.77	0.77	0.73	0.70	0.81	0.79	0.76
	100%	0.83	0.83	0.81	0.79	0.85	0.84	0.83

Losses at normative operating points (speed;torque), in percentage of rated output power

Losses (%)	P1 (0,9;1,0)	5.7	5.7	5.7	5.7	5.7	5.7	5.7
	P2 (0,5;1,0)	4.9	4.9	4.9	4.9	4.9	4.9	4.9
	P3 (0,25;1,0)	4.7	4.7	4.7	4.7	4.7	4.7	4.7
	P4 (0,9;0,5)	2.7	2.7	2.7	2.7	2.7	2.7	2.7
	P5 (0,5;0,5)	1.9	1.9	1.9	1.9	1.9	1.9	1.9
	P6 (0,5;0,25)	1.2	1.2	1.2	1.2	1.2	1.2	1.2
	P7 (0,25;0,25)	0.9	0.9	0.9	0.9	0.9	0.9	0.9

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads	
Bearing type	: NU-312 C3	6212 C3	Max. traction	: 1479 lb
Sealing	: Inpro/Seal	Inpro/Seal	Max. compression	: 2086 lb
Lubrication interval	: 10000 h	15000 h		
Lubricant amount	: 21 g	13 g		
Lubricant type	: Mobil Polyrex EM			

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Notes

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TORQUE AND CURRENT VS SPEED CURVE



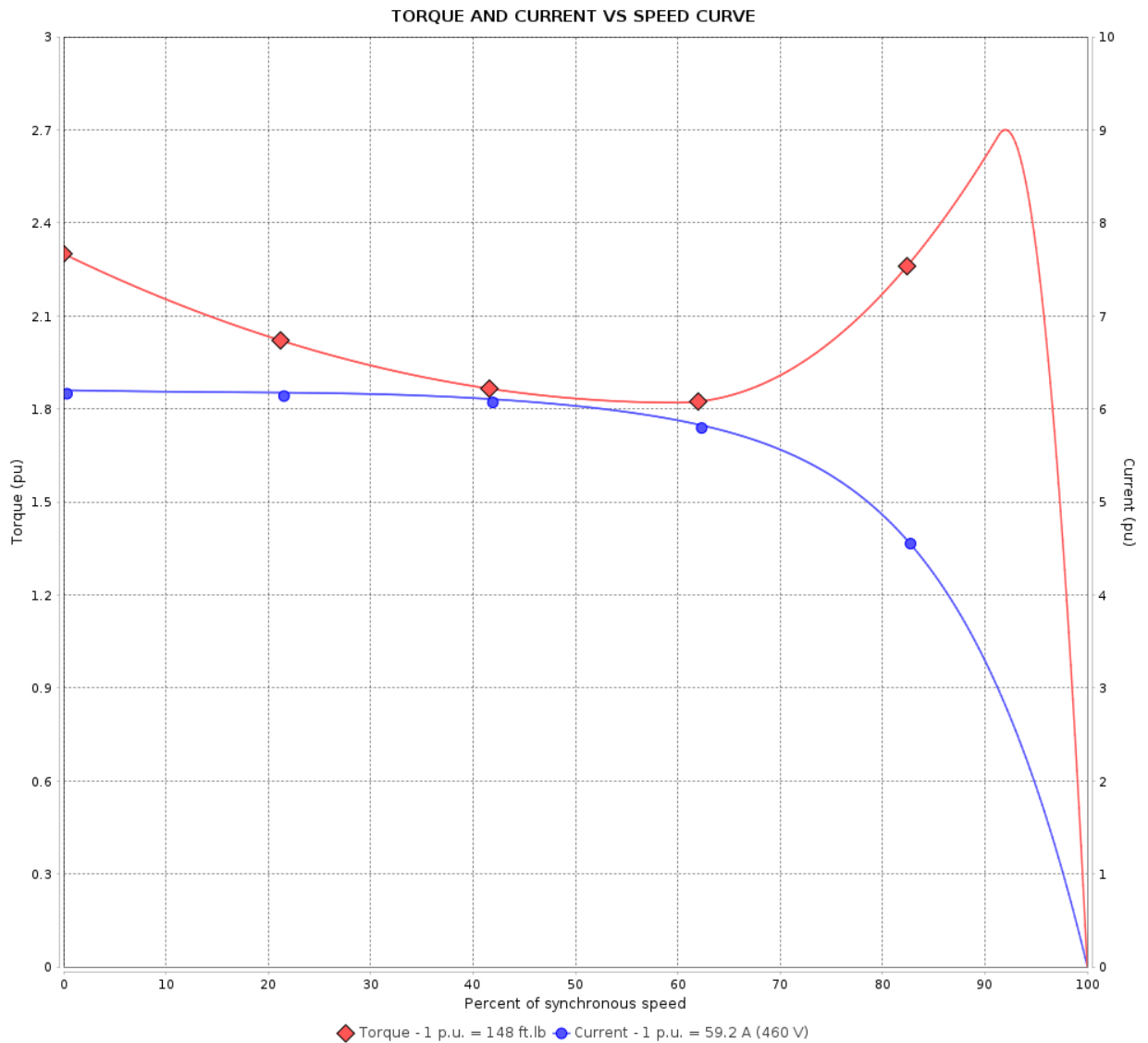
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Performance : 460 V 60 Hz 4P

Rated current	: 59.2 A	Moment of inertia (J)	: 9.16 sq.ft.lb
LRC	: 6.2	Duty cycle	: Cont.(S1)
Rated torque	: 148 ft.lb	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.15
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 1775 rpm	Design	: B

Locked rotor time : 27s (cold) 15s (hot)

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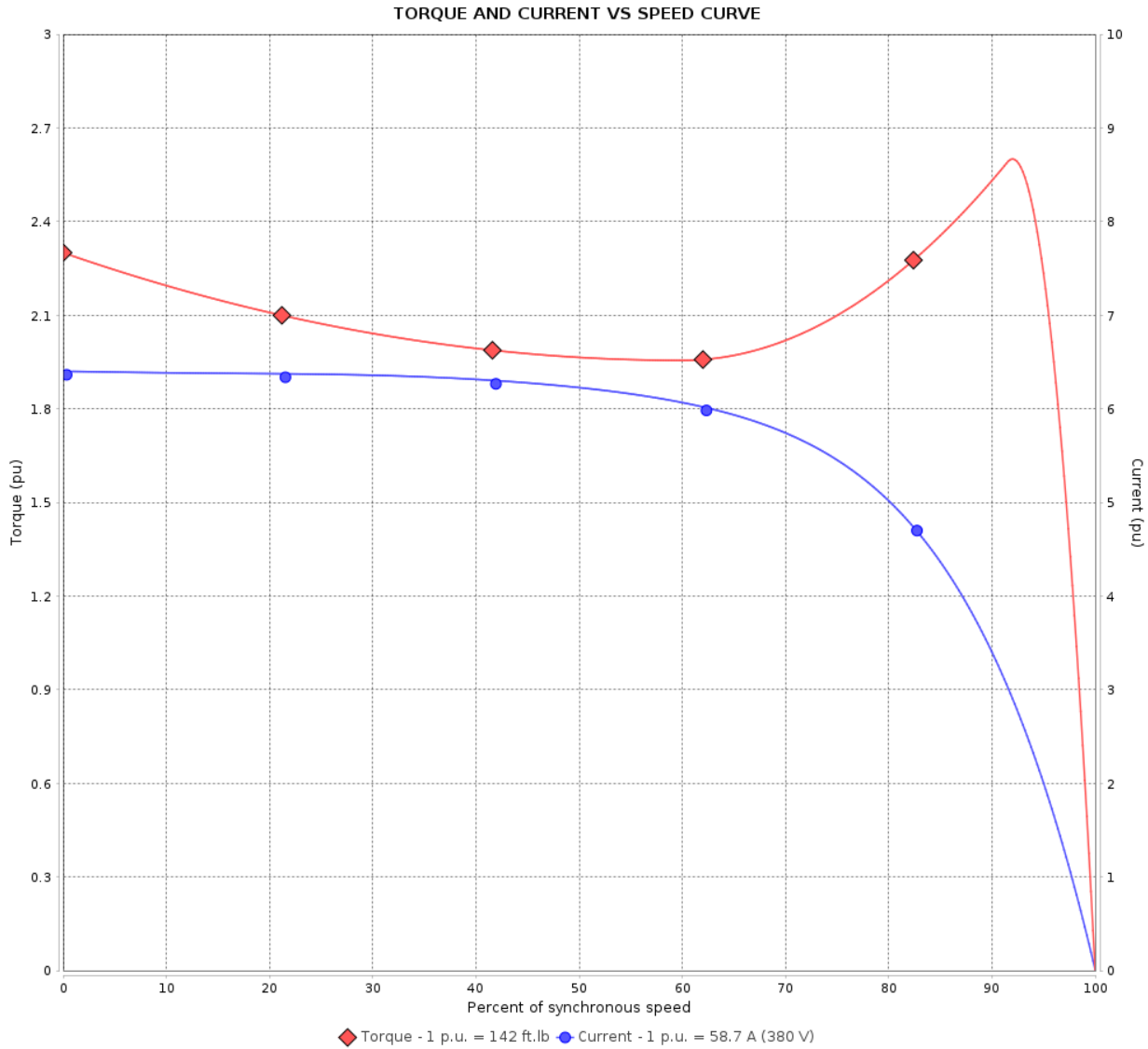


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Performance : 380 V 50 Hz 4P IE3

Rated current	: 58.7 A	Moment of inertia (J)	: 9.16 sq.ft.lb
LRC	: 6.4	Duty cycle	: Cont.(S1)
Rated torque	: 142 ft.lb	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.00
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1475 rpm	Design	: B

Locked rotor time : 19s (cold) 11s (hot)

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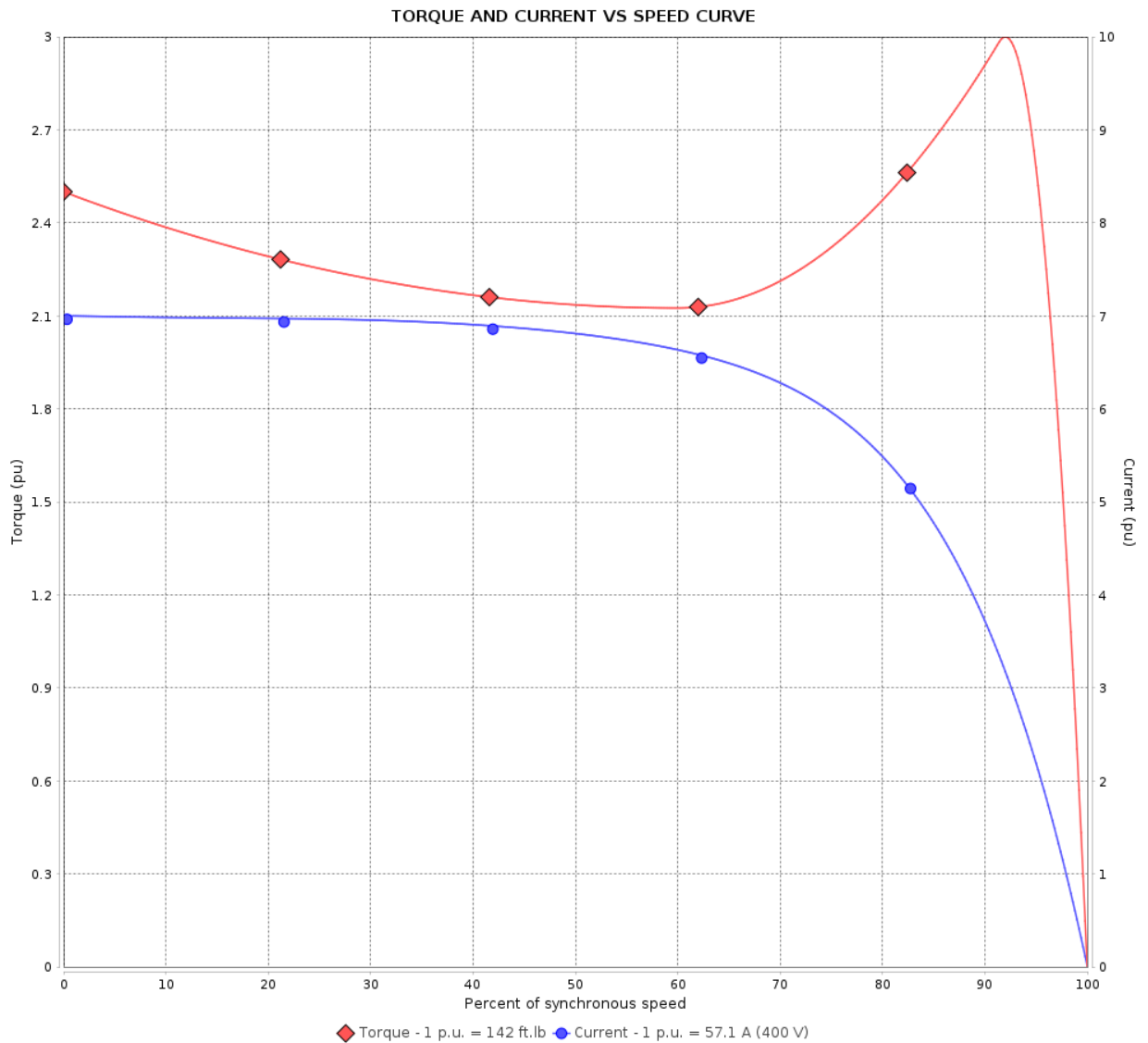
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Performance : 400 V 50 Hz 4P IE3

Rated current	: 57.1 A	Moment of inertia (J)	: 9.16 sq.ft.lb
LRC	: 7.0	Duty cycle	: Cont.(S1)
Rated torque	: 142 ft.lb	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.00
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1477 rpm	Design	: B

Locked rotor time : 19s (cold) 11s (hot)

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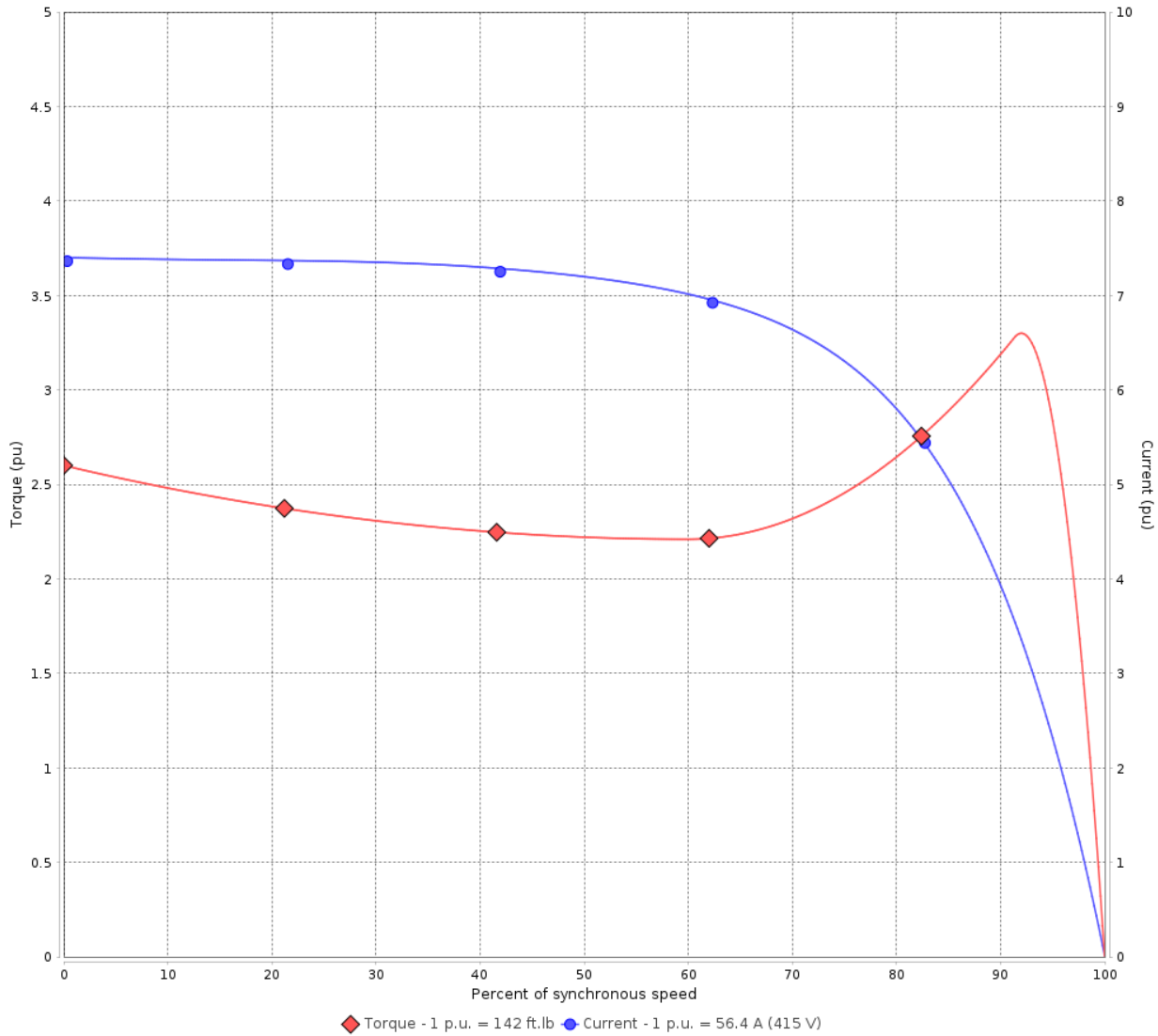
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Performance : 415 V 50 Hz 4P IE3

Rated current	: 56.4 A	Moment of inertia (J)	: 9.16 sq.ft.lb
LRC	: 7.4	Duty cycle	: Cont.(S1)
Rated torque	: 142 ft.lb	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.00
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 1478 rpm	Design	: B

Locked rotor time : 19s (cold) 11s (hot)

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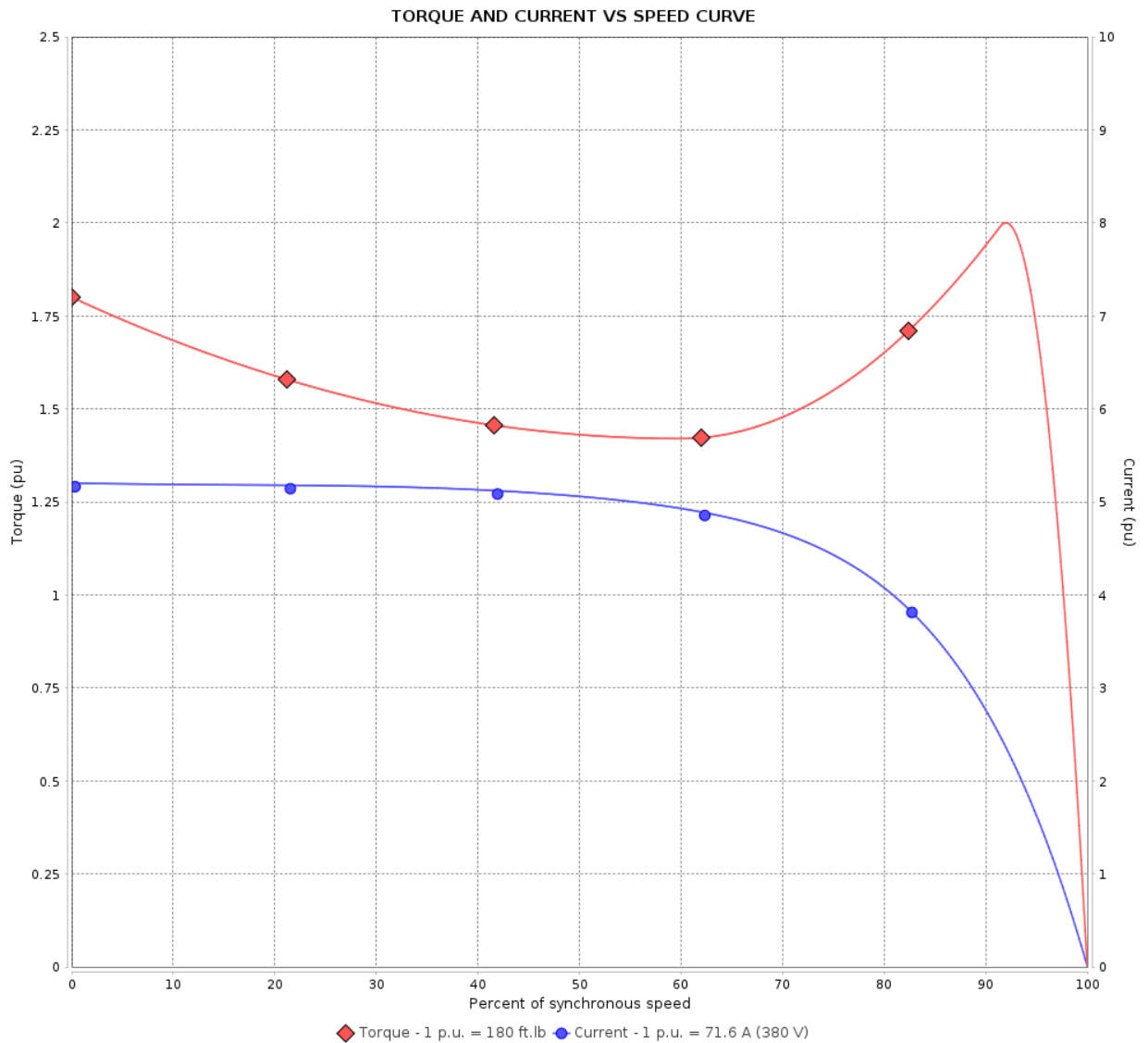
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Performance : 380 V 50 Hz 4P IE1

Rated current	: 71.6 A	Moment of inertia (J)	: 9.16 sq.ft.lb
LRC	: 5.2	Duty cycle	: Cont.(S1)
Rated torque	: 180 ft.lb	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.00
Breakdown torque	: 200 %	Temperature rise	: 105 K
Rated speed	: 1460 rpm	Design	: B

Locked rotor time : 19s (cold) 11s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

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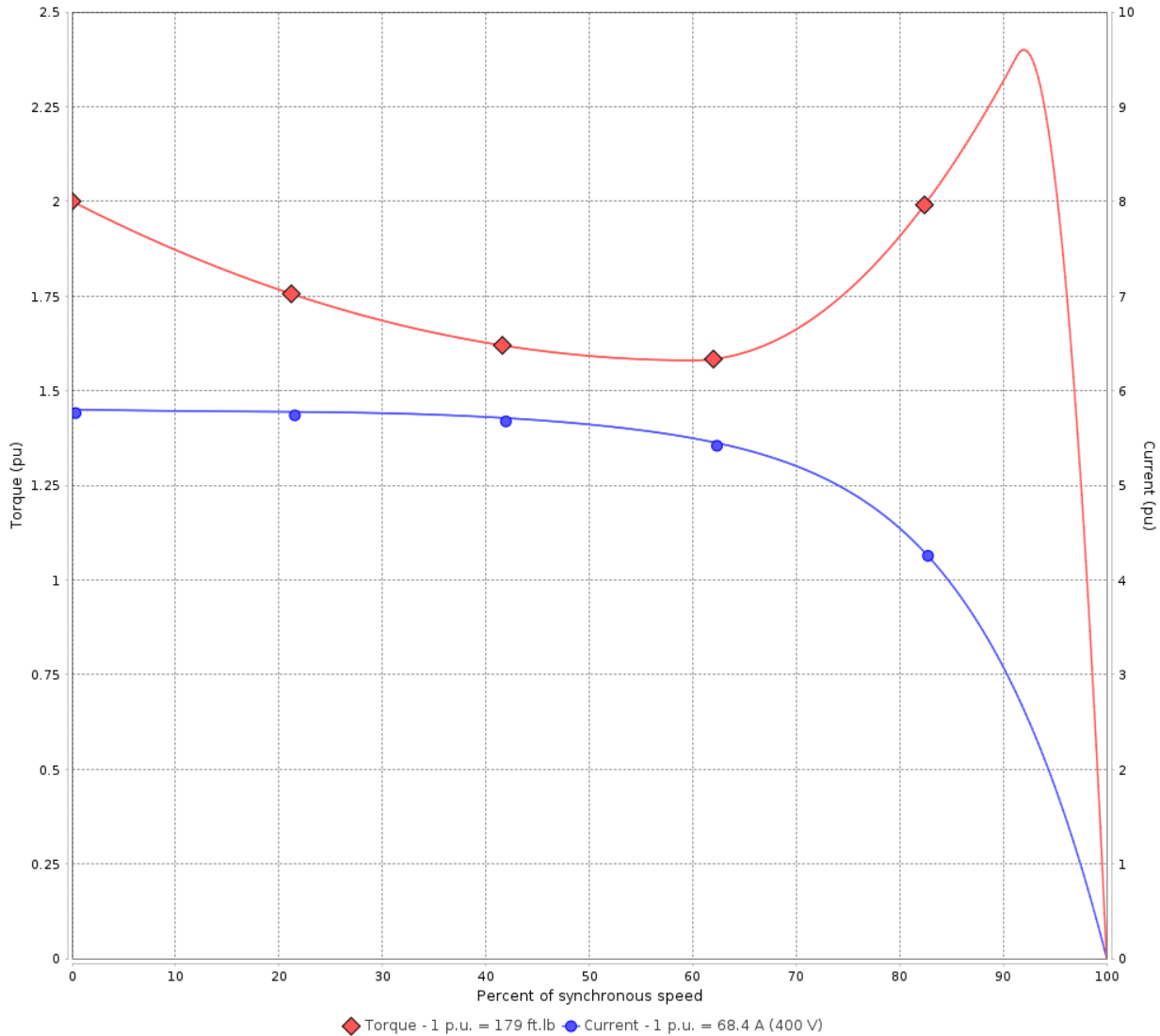
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TORQUE AND CURRENT VS SPEED CURVE



Performance : 400 V 50 Hz 4P IE2

Rated current	: 68.4 A	Moment of inertia (J)	: 9.16 sq.ft.lb
LRC	: 5.8	Duty cycle	: Cont.(S1)
Rated torque	: 179 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.00
Breakdown torque	: 240 %	Temperature rise	: 105 K
Rated speed	: 1465 rpm	Design	: B

Locked rotor time : 19s (cold) 11s (hot)

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TORQUE AND CURRENT VS SPEED CURVE



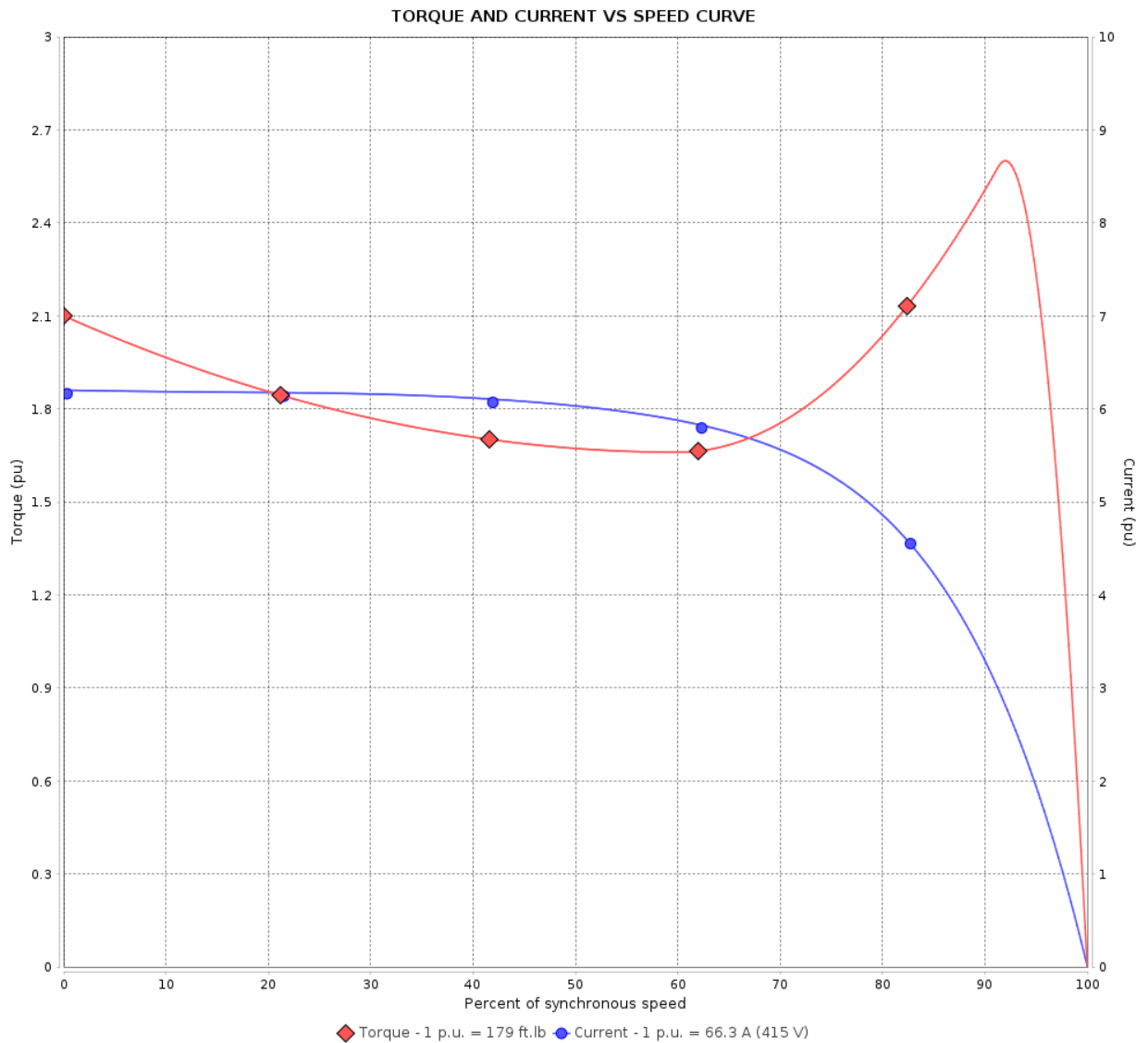
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Performance : 415 V 50 Hz 4P IE2

Rated current	: 66.3 A	Moment of inertia (J)	: 9.16 sq.ft.lb
LRC	: 6.2	Duty cycle	: Cont.(S1)
Rated torque	: 179 ft.lb	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.00
Breakdown torque	: 260 %	Temperature rise	: 105 K
Rated speed	: 1470 rpm	Design	: B

Locked rotor time : 19s (cold) 11s (hot)

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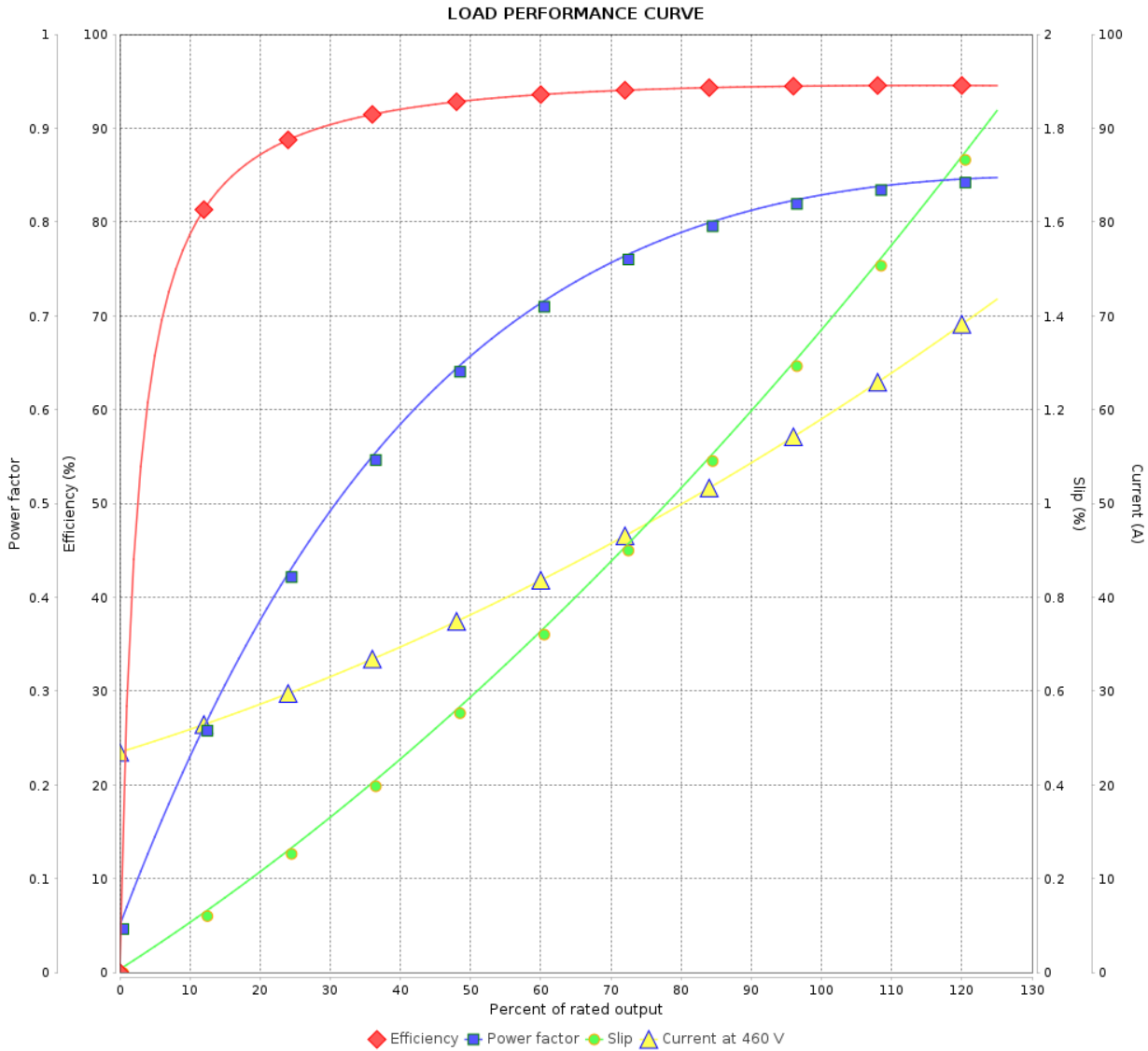


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Performance : 460 V 60 Hz 4P

Rated current : 59.2 A
 LRC : 6.2
 Rated torque : 148 ft.lb
 Locked rotor torque : 229 %
 Breakdown torque : 270 %
 Rated speed : 1775 rpm

Moment of inertia (J) : 9.16 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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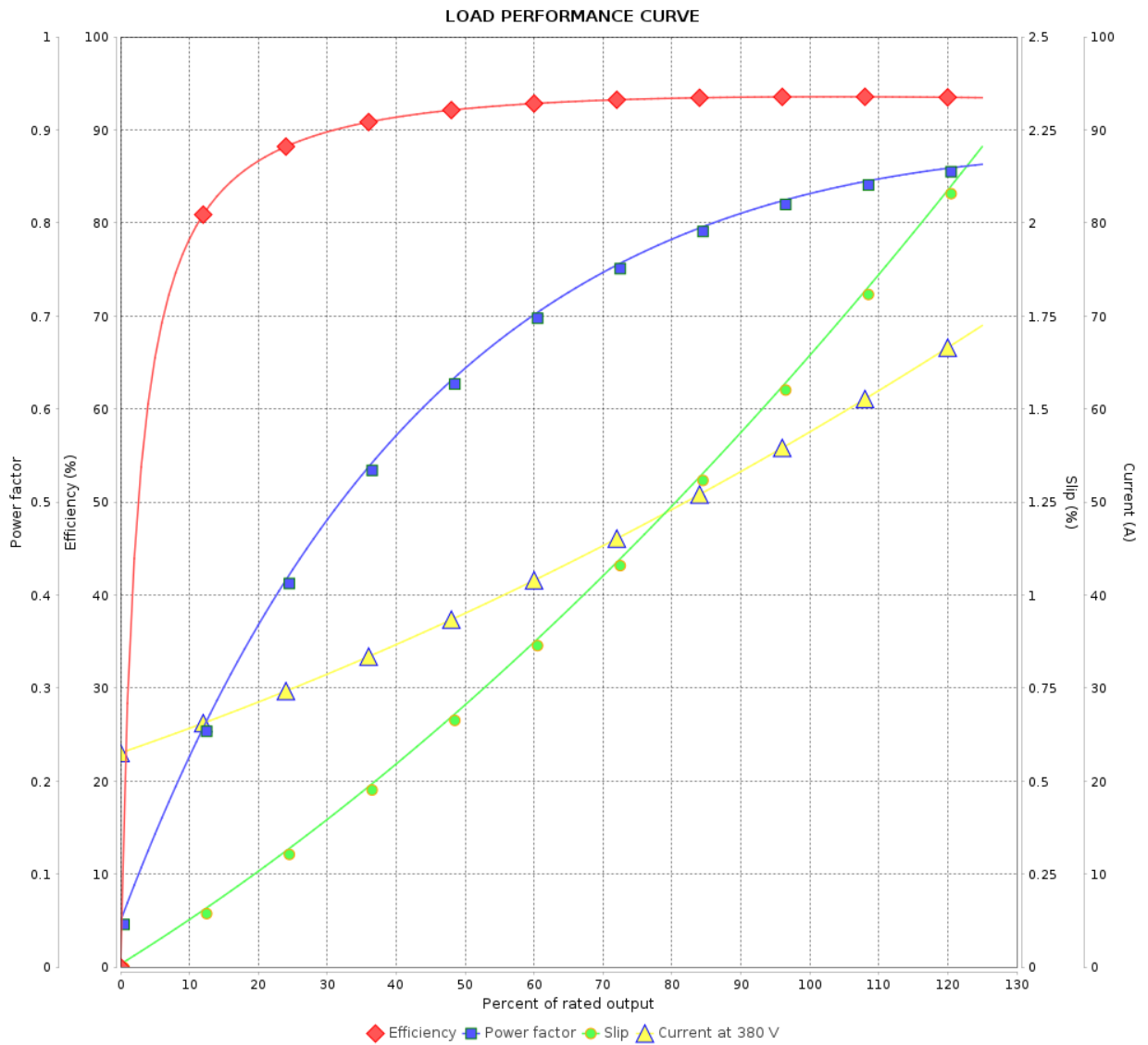


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Performance : 380 V 50 Hz 4P IE3

Rated current : 58.7 A
 LRC : 6.4
 Rated torque : 142 ft.lb
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 Breakdown torque : 260 %
 Rated speed : 1475 rpm

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 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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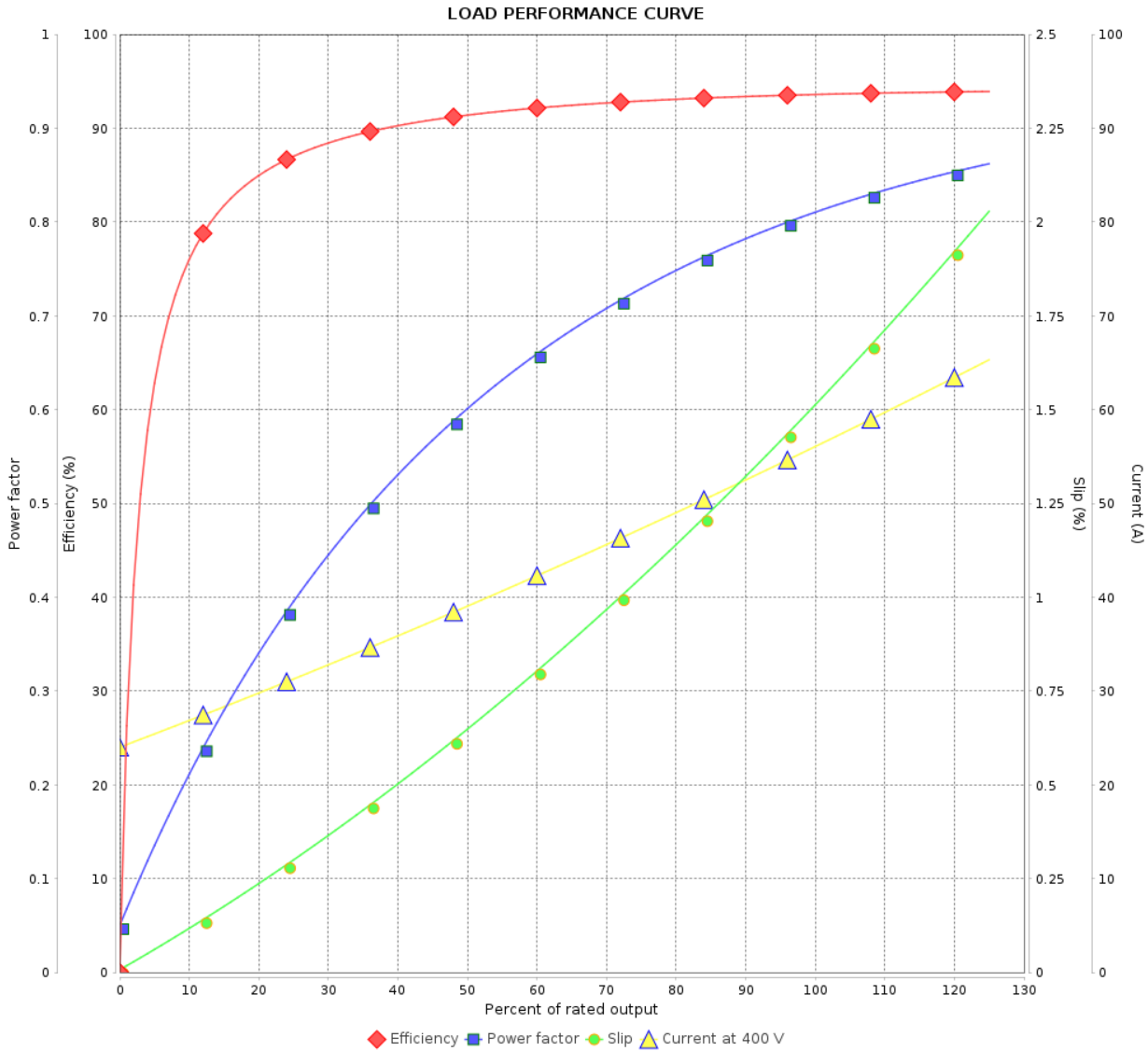


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Performance : 400 V 50 Hz 4P IE3

Rated current : 57.1 A
 LRC : 7.0
 Rated torque : 142 ft.lb
 Locked rotor torque : 250 %
 Breakdown torque : 300 %
 Rated speed : 1477 rpm

Moment of inertia (J) : 9.16 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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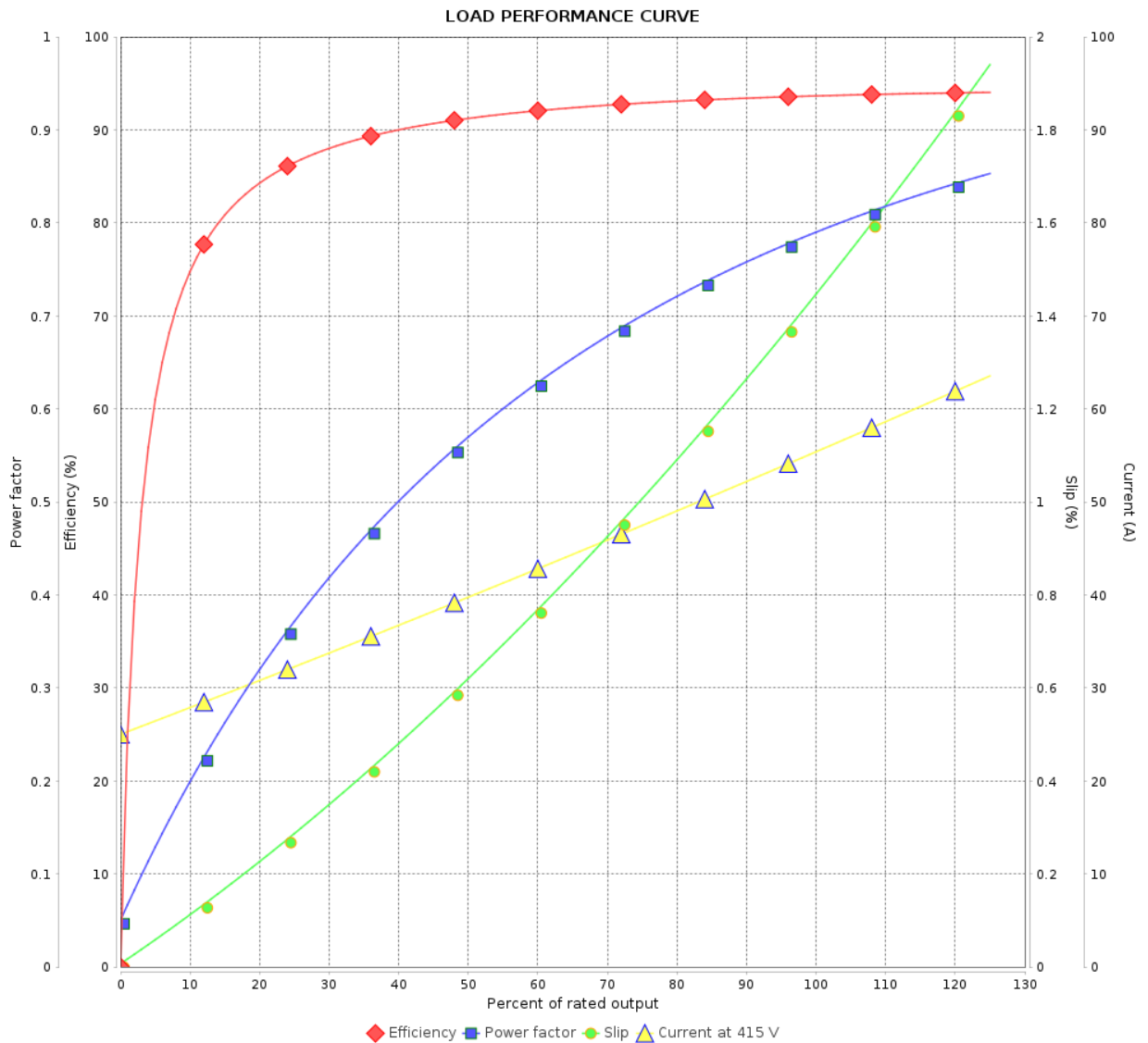


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 Rated speed : 1478 rpm

Moment of inertia (J) : 9.16 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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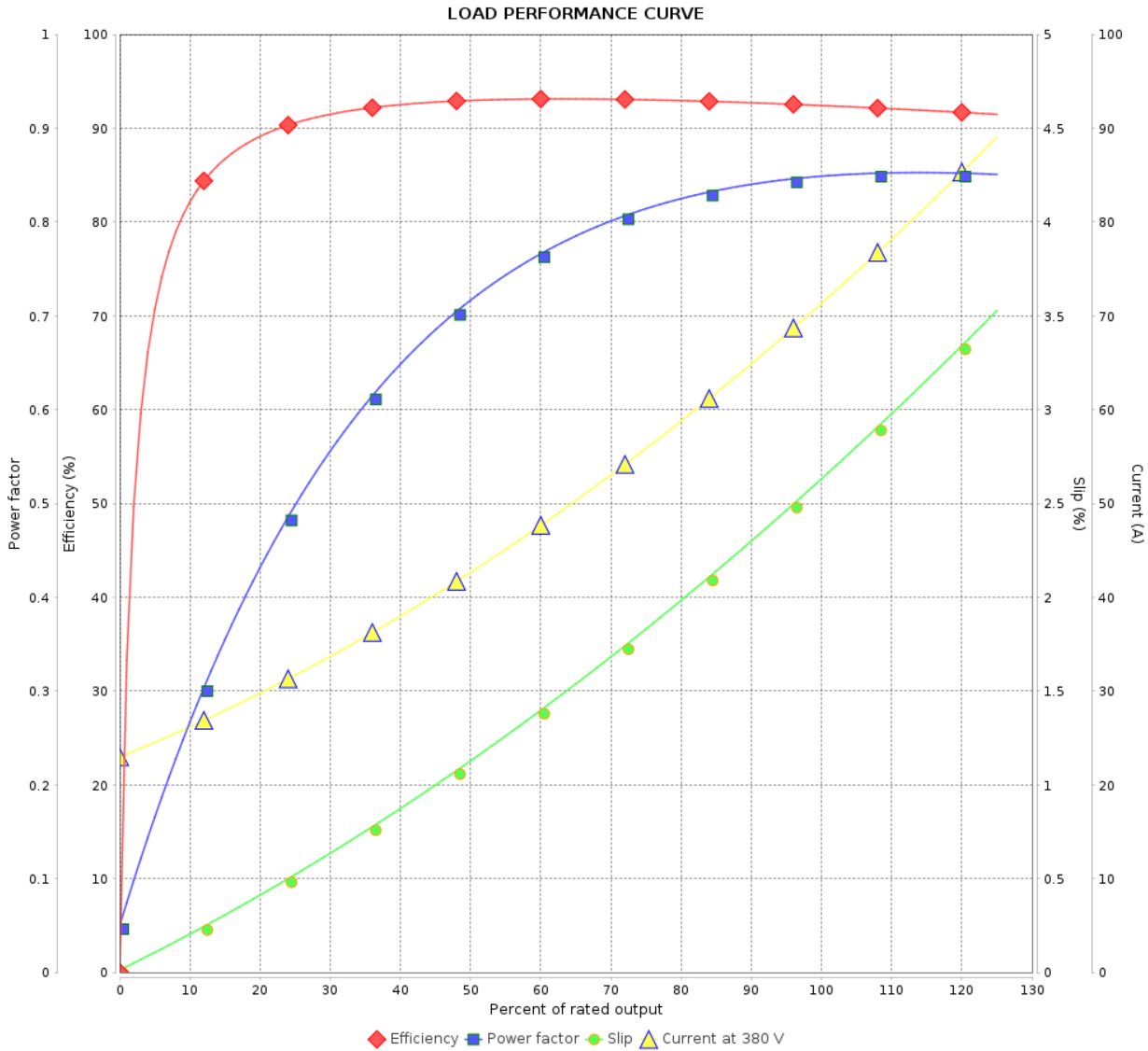


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Performance : 380 V 50 Hz 4P IE1

Rated current : 71.6 A	Moment of inertia (J) : 9.16 sq.ft.lb
LRC : 5.2	Duty cycle : Cont.(S1)
Rated torque : 180 ft.lb	Insulation class : F
Locked rotor torque : 180 %	Service factor : 1.00
Breakdown torque : 200 %	Temperature rise : 105 K
Rated speed : 1460 rpm	Design : B

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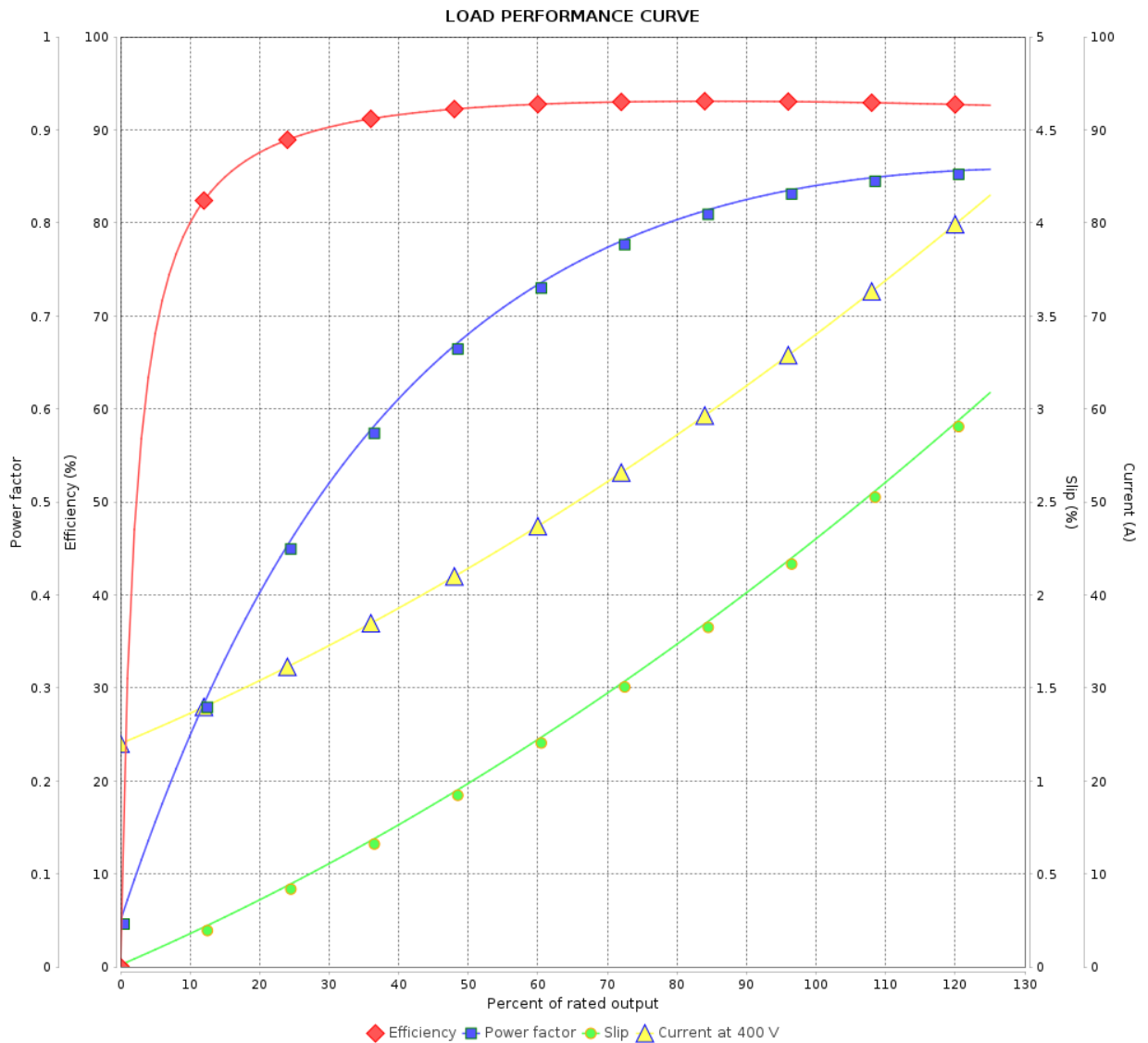


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Performance : 400 V 50 Hz 4P IE2

Rated current : 68.4 A
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 Design : B

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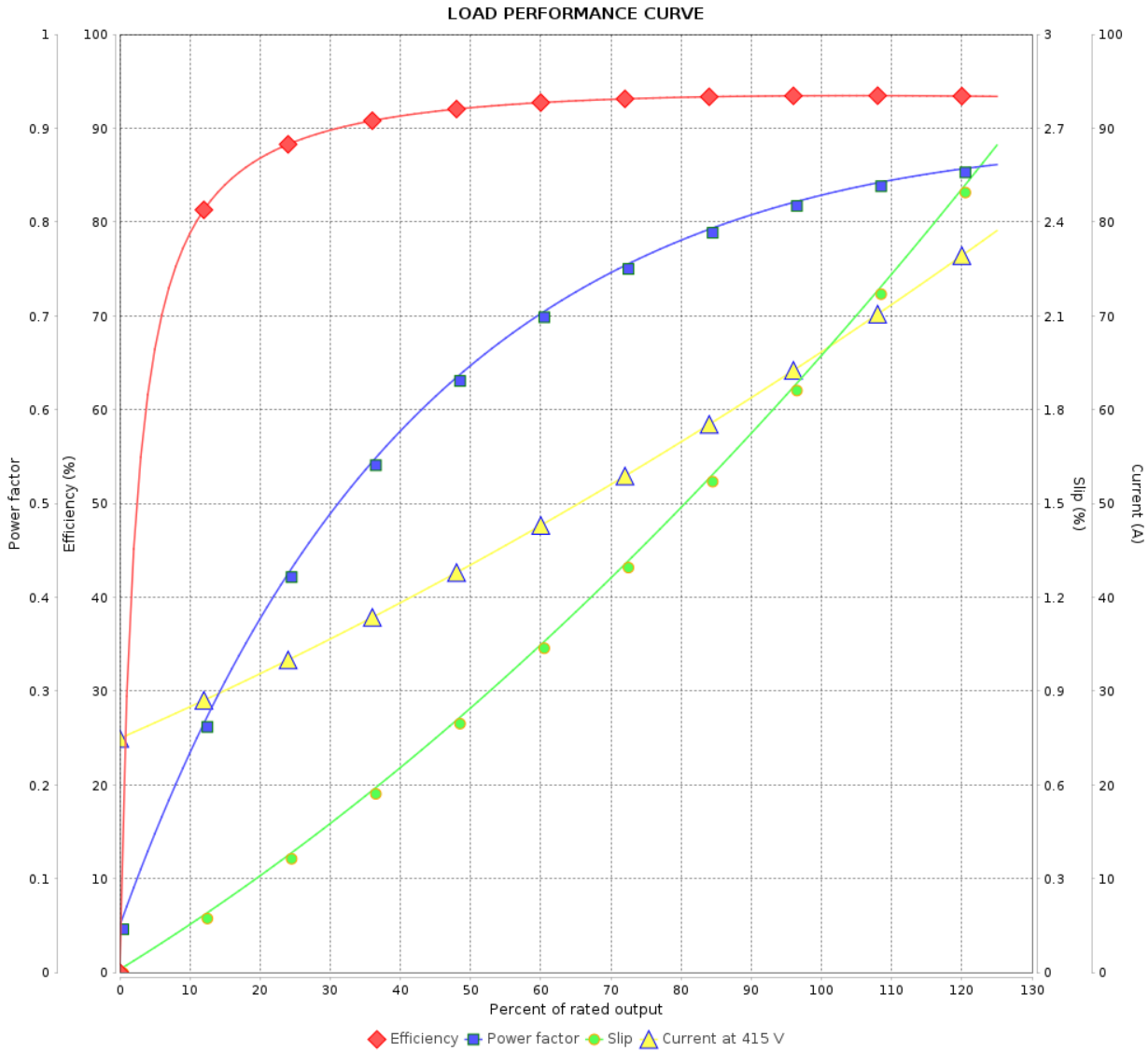


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Performance : 415 V 50 Hz 4P IE2

Rated current : 66.3 A
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 Rated speed : 1470 rpm

Moment of inertia (J) : 9.16 sq.ft.lb
 Duty cycle : Cont.(S1)
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 Service factor : 1.00
 Temperature rise : 105 K
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Heating constant

Cooling constant

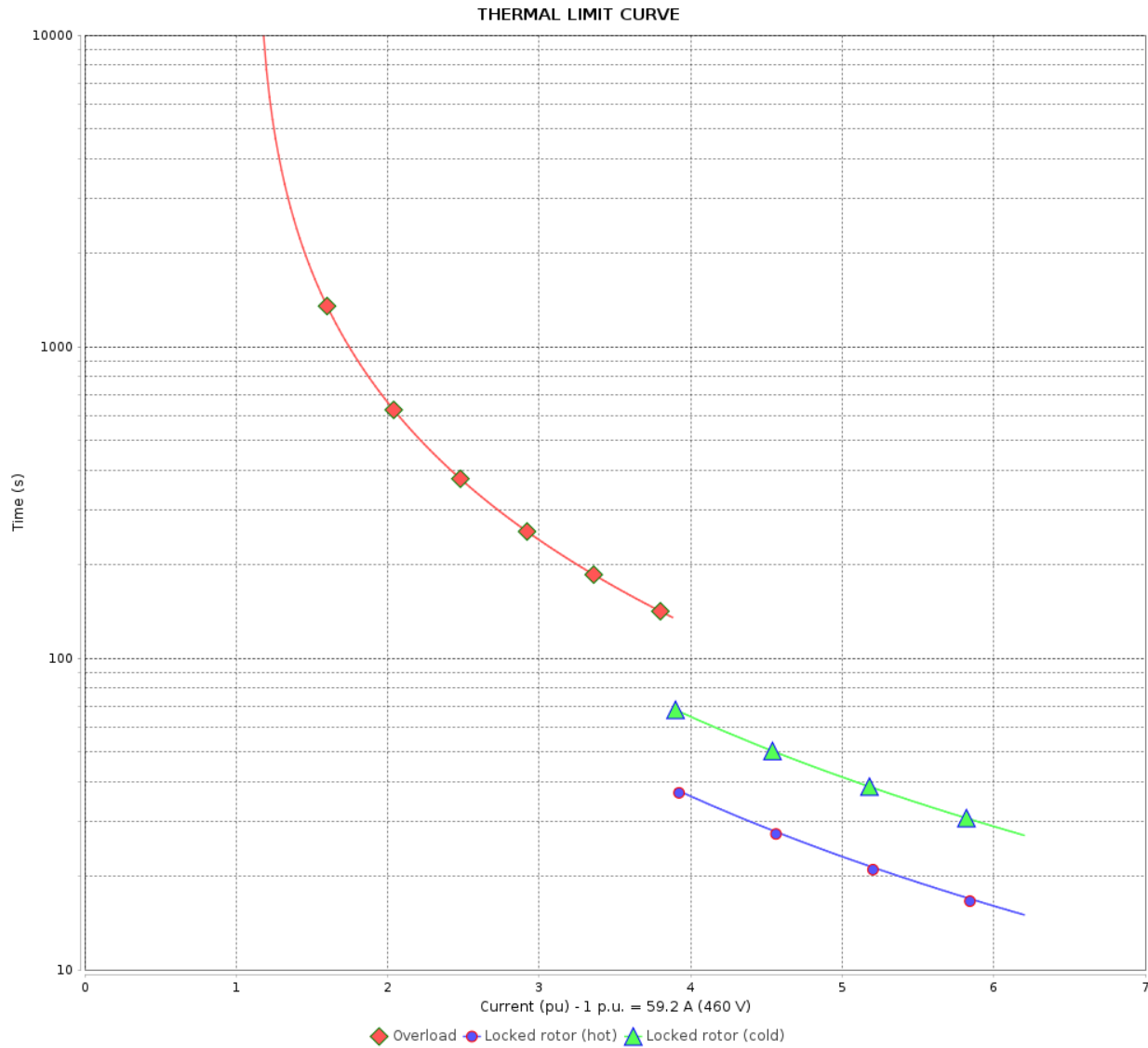
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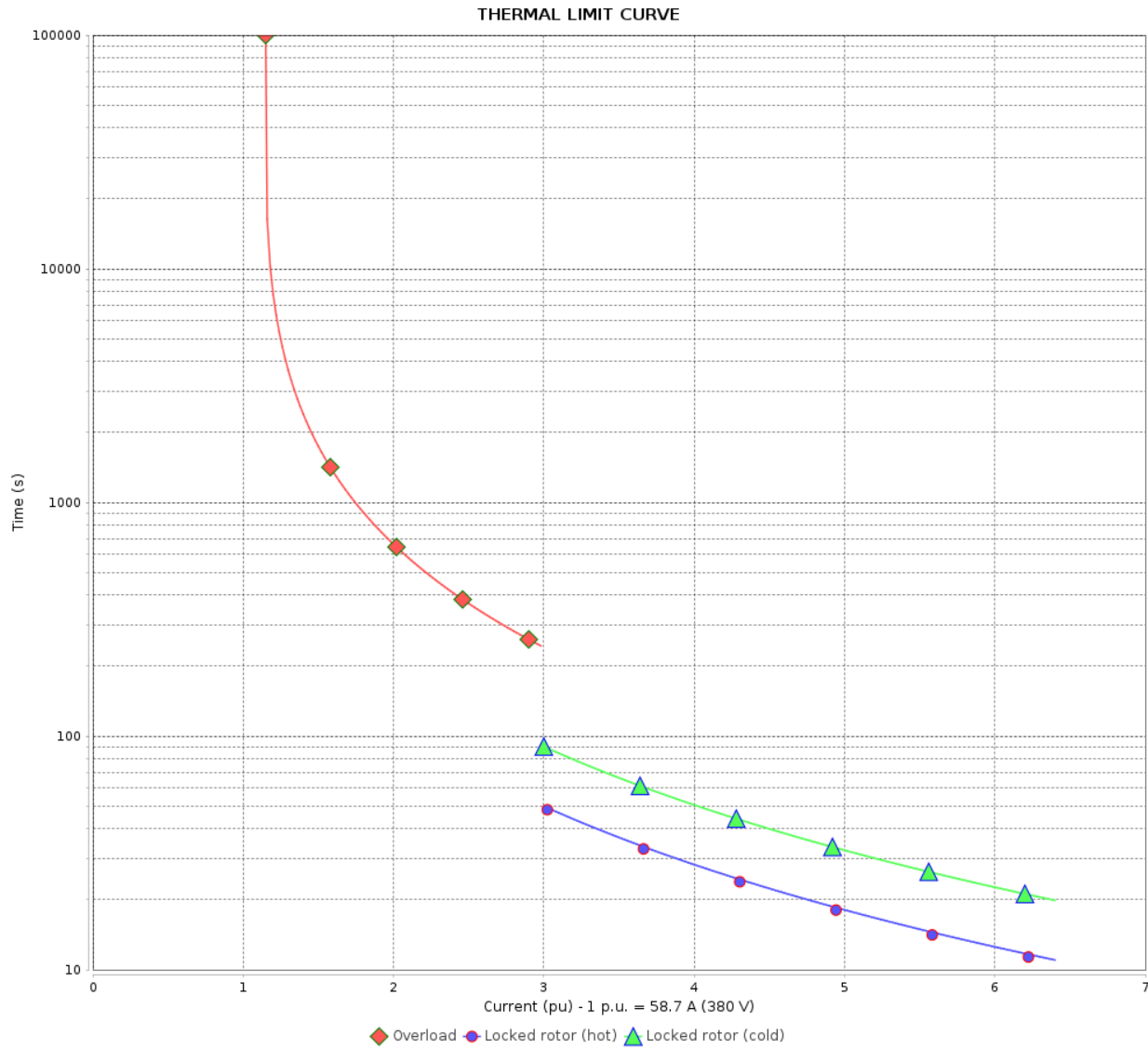
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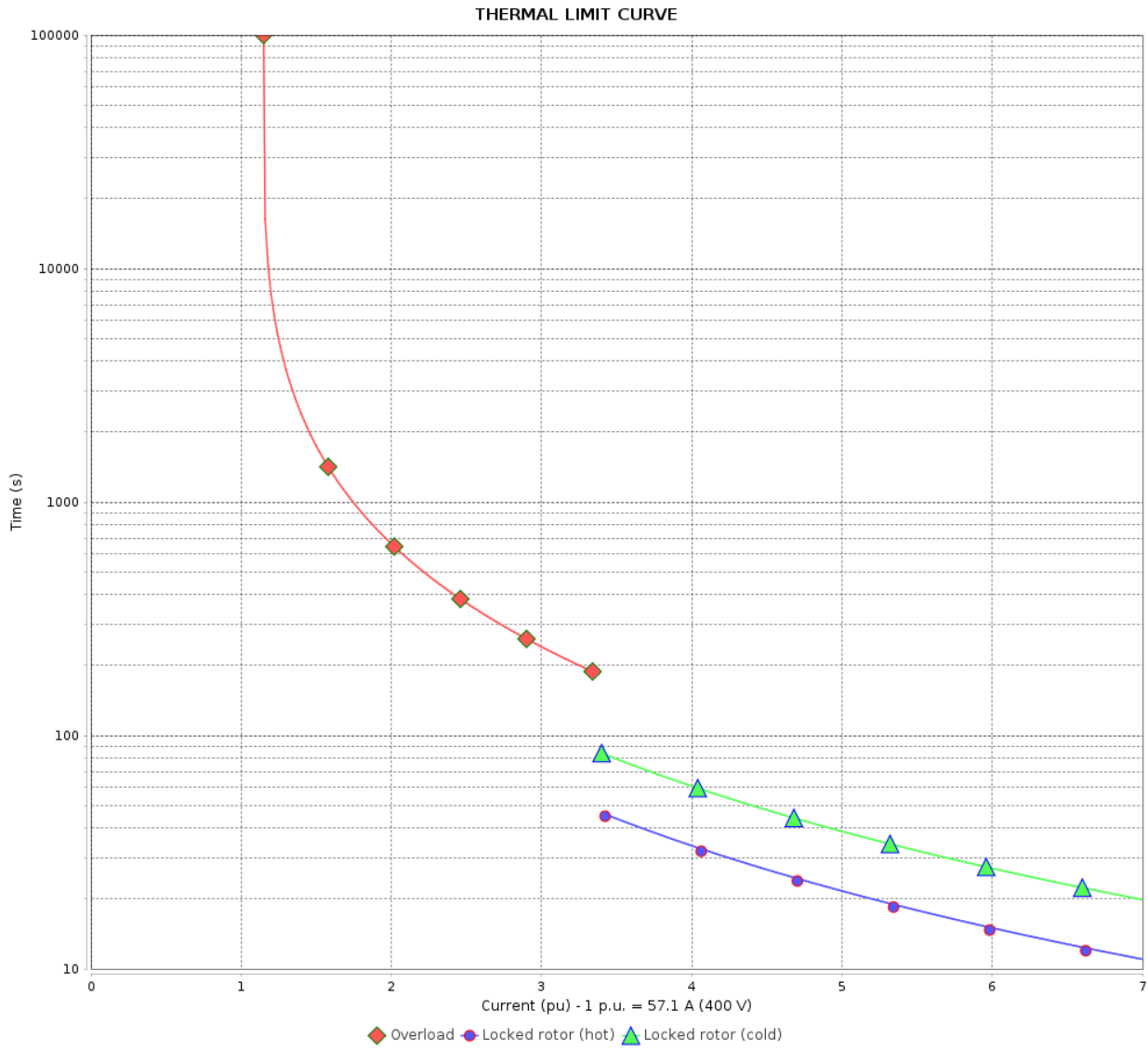
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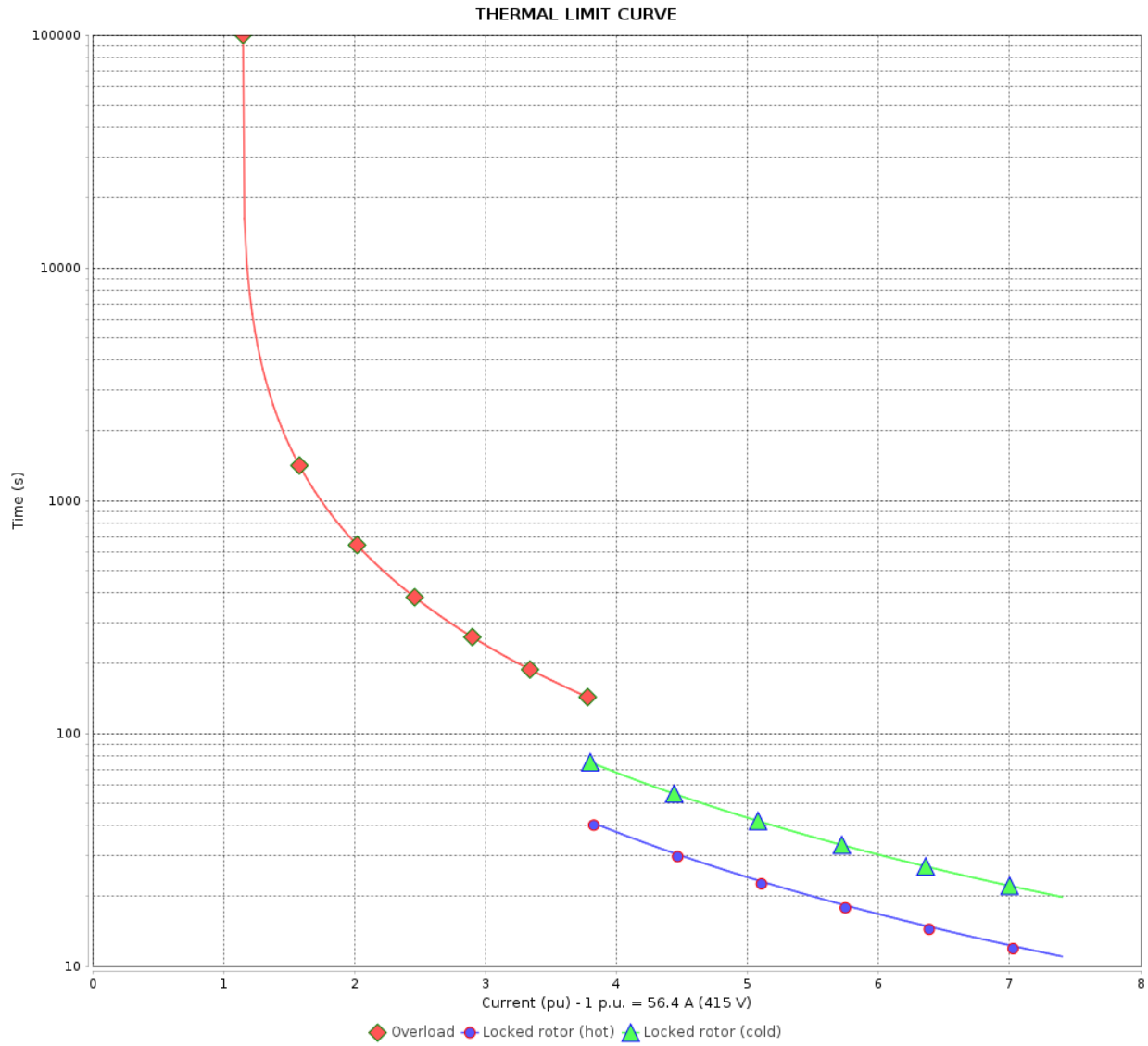
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Rated speed : 1460 rpm

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Cooling constant

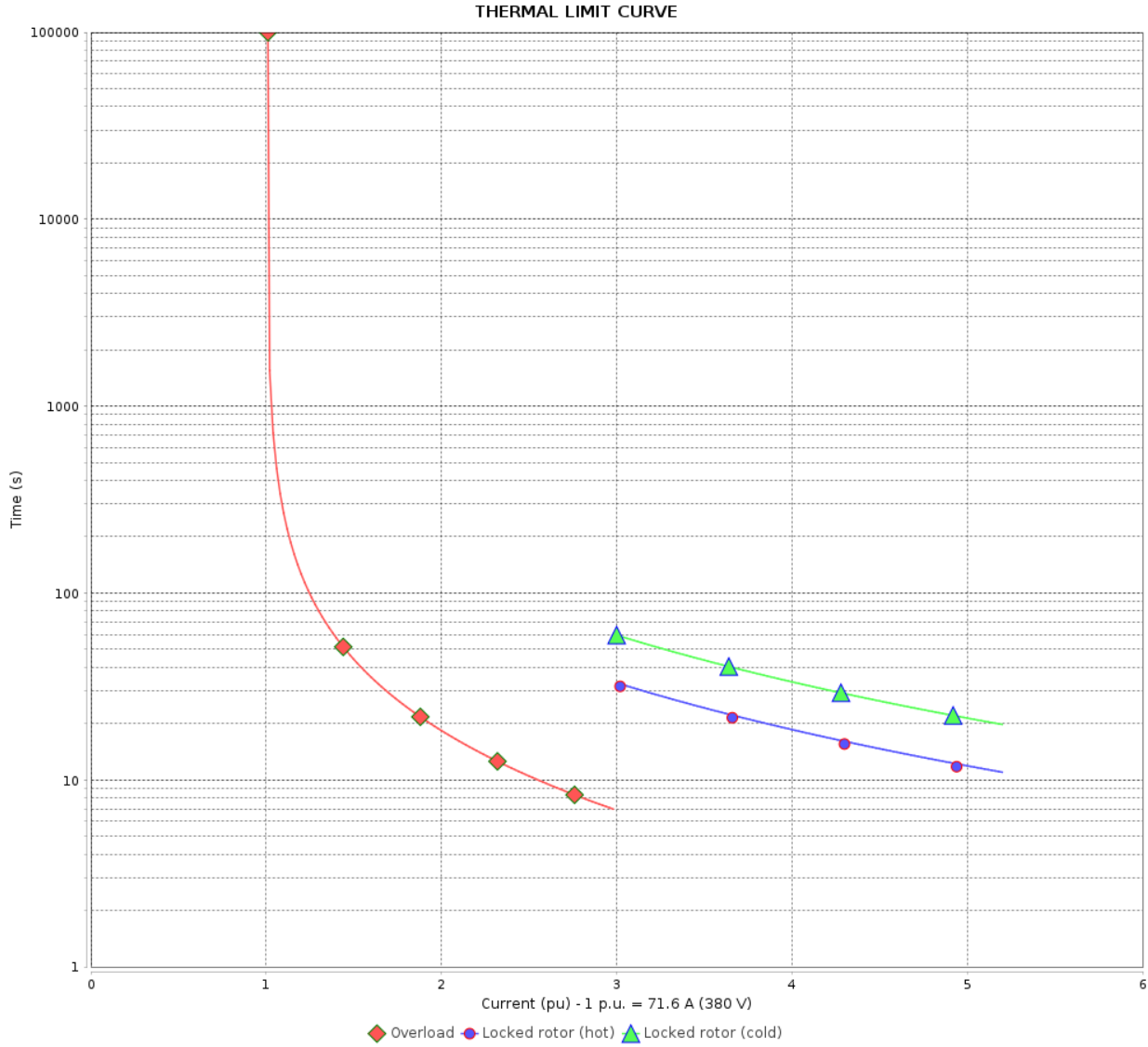
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	04/10/2023		25 / 37	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 26 / 37		Revision
Checked by				
Date				

THERMAL LIMIT CURVE



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase
 Product code : 16684654
 Catalog # : 05018ST3QAP326T-W22

Performance : 400 V 50 Hz 4P IE2

Rated current : 68.4 A	Moment of inertia (J) : 9.16 sq.ft.lb
LRC : 5.8	Duty cycle : Cont.(S1)
Rated torque : 179 ft.lb	Insulation class : F
Locked rotor torque : 200 %	Service factor : 1.00
Breakdown torque : 240 %	Temperature rise : 105 K
Rated speed : 1465 rpm	Design : B

Heating constant

Cooling constant

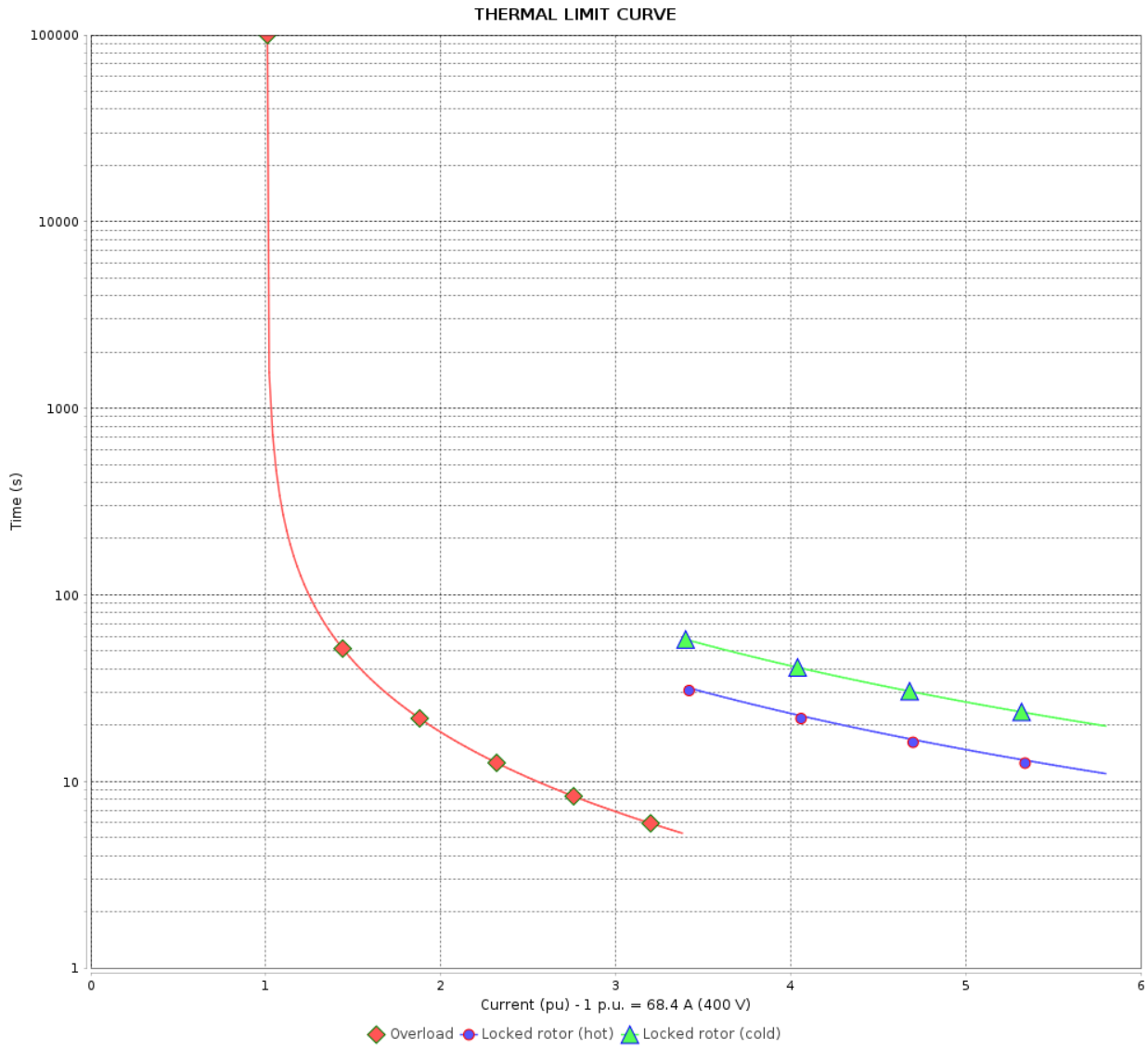
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Performed by			Page	Revision
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Date	04/10/2023	27 / 37		

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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

THERMAL LIMIT CURVE



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase
 Product code : 16684654
 Catalog # : 05018ST3QAP326T-W22

Performance : 415 V 50 Hz 4P IE2

Rated current : 66.3 A	Moment of inertia (J) : 9.16 sq.ft.lb
LRC : 6.2	Duty cycle : Cont.(S1)
Rated torque : 179 ft.lb	Insulation class : F
Locked rotor torque : 210 %	Service factor : 1.00
Breakdown torque : 260 %	Temperature rise : 105 K
Rated speed : 1470 rpm	Design : B

Heating constant

Cooling constant

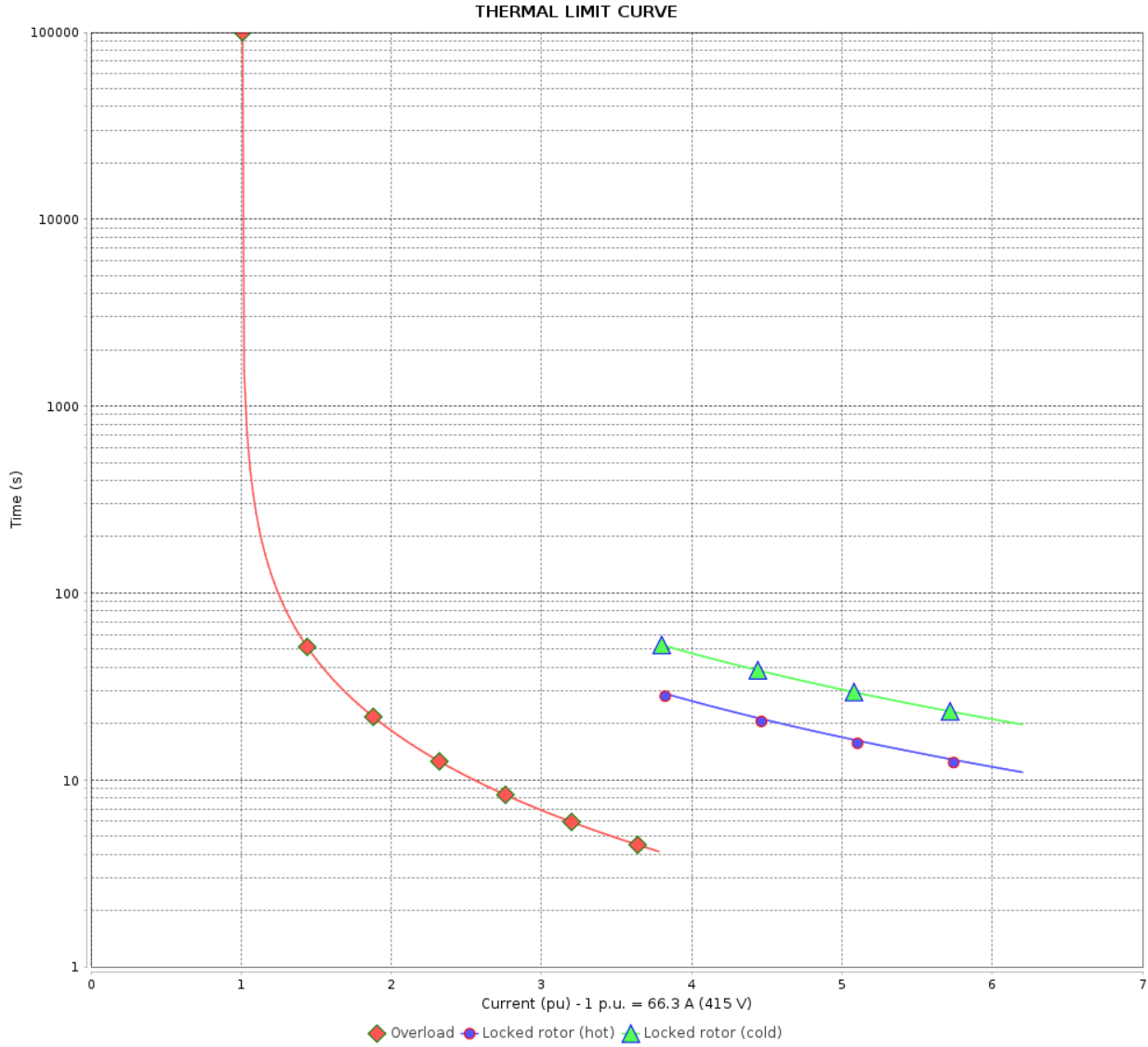
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Performed by			Page	Revision
Checked by				
Date	04/10/2023	29 / 37		

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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Performed by		Page 30 / 37		Revision
Checked by				
Date				

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

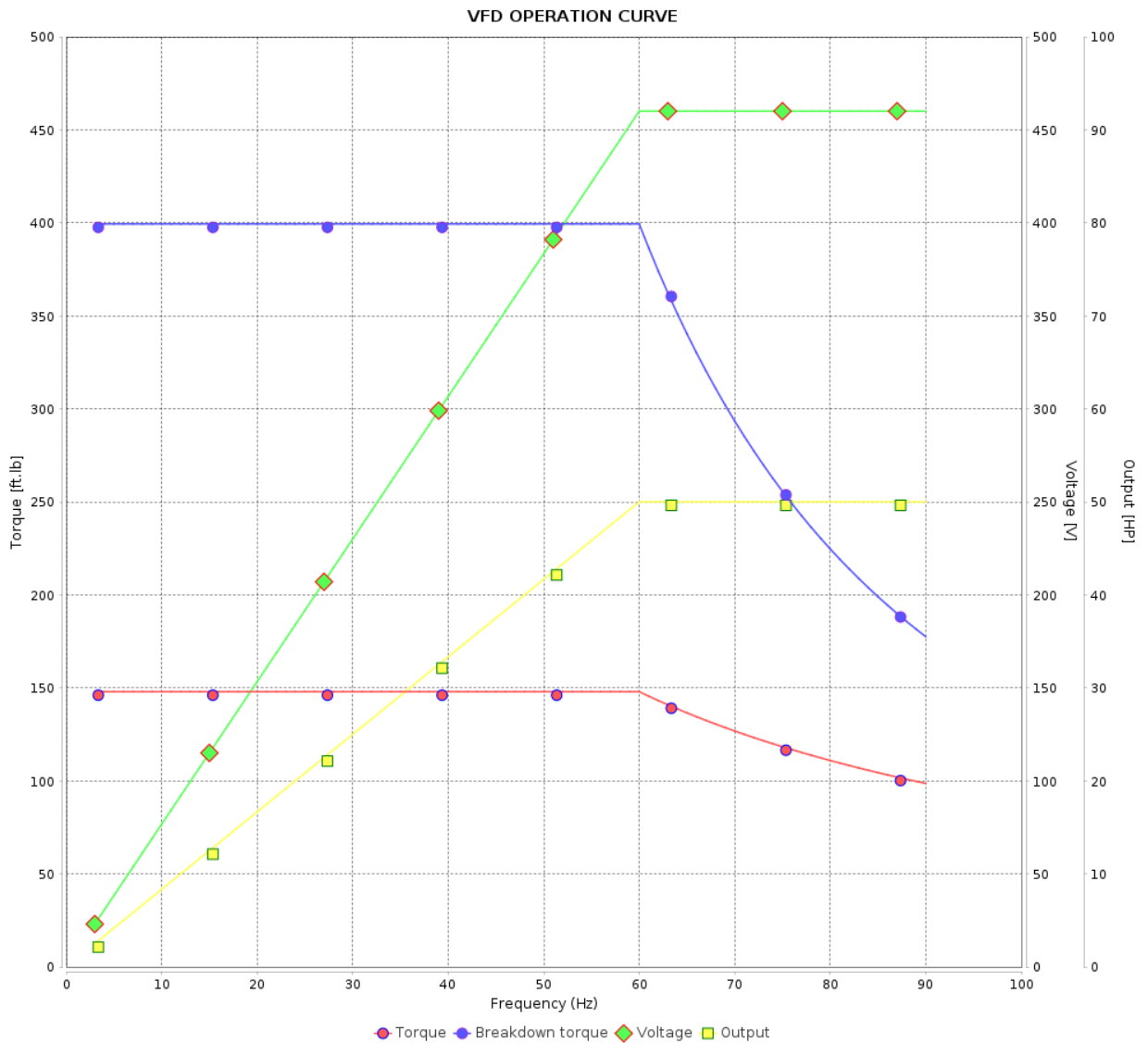


Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase

Product code : 16684654

Catalog # : 05018ST3QAP326T-W22



Performance : 460 V 60 Hz 4P

Rated current : 59.2 A
 LRC : 6.2
 Rated torque : 148 ft.lb
 Locked rotor torque : 229 %
 Breakdown torque : 270 %
 Rated speed : 1775 rpm

Moment of inertia (J) : 9.16 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
Performed by		Page		Revision
Checked by		31 / 37		
Date	04/10/2023			

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



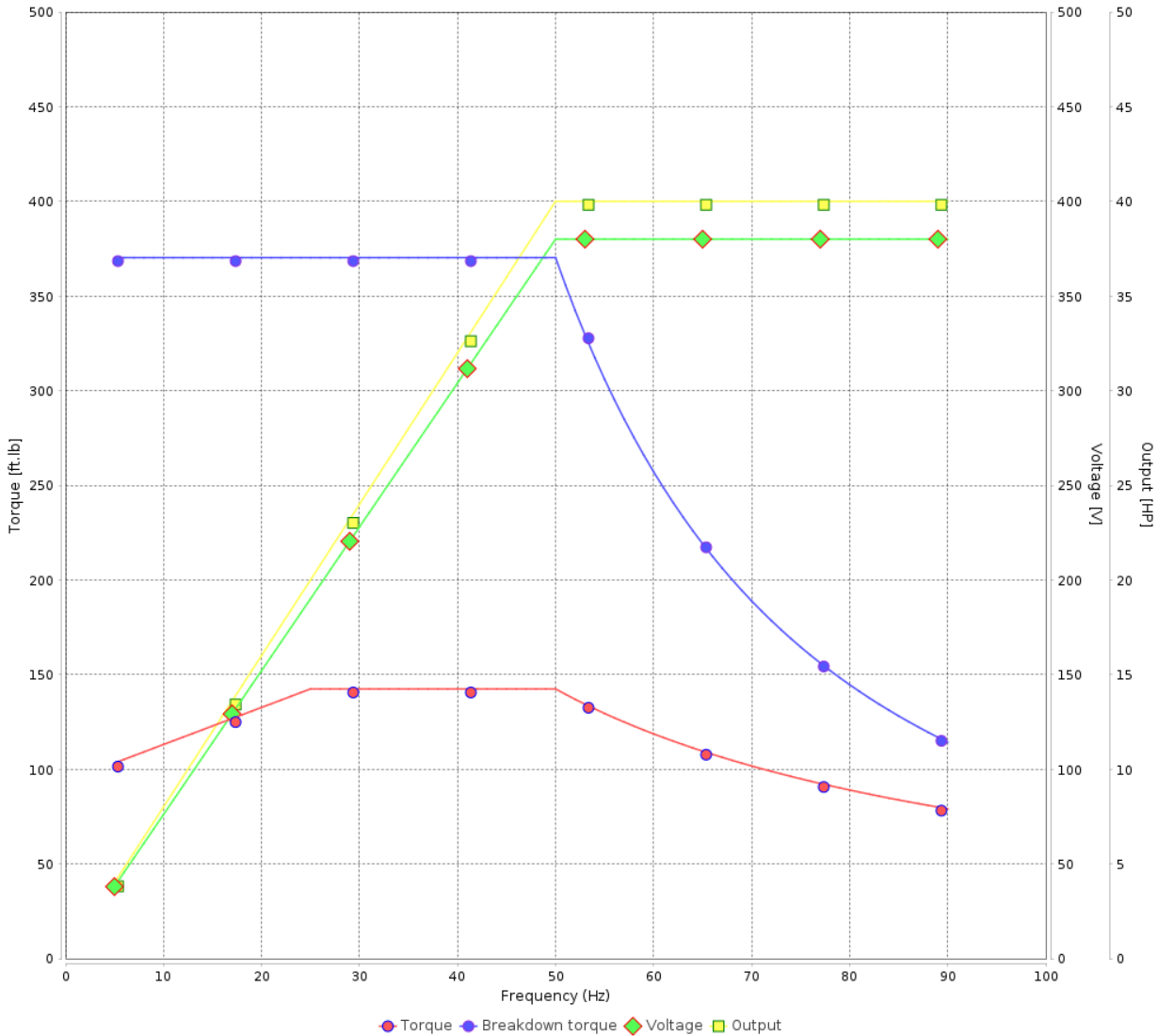
Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase

Product code : 16684654

Catalog # : 05018ST3QAP326T-W22

VFD OPERATION CURVE



Performance : 380 V 50 Hz 4P IE3

Rated current : 58.7 A
 LRC : 6.4
 Rated torque : 142 ft.lb
 Locked rotor torque : 229 %
 Breakdown torque : 260 %
 Rated speed : 1475 rpm

Moment of inertia (J) : 9.16 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 32 / 37	Revision
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Date	04/10/2023			

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

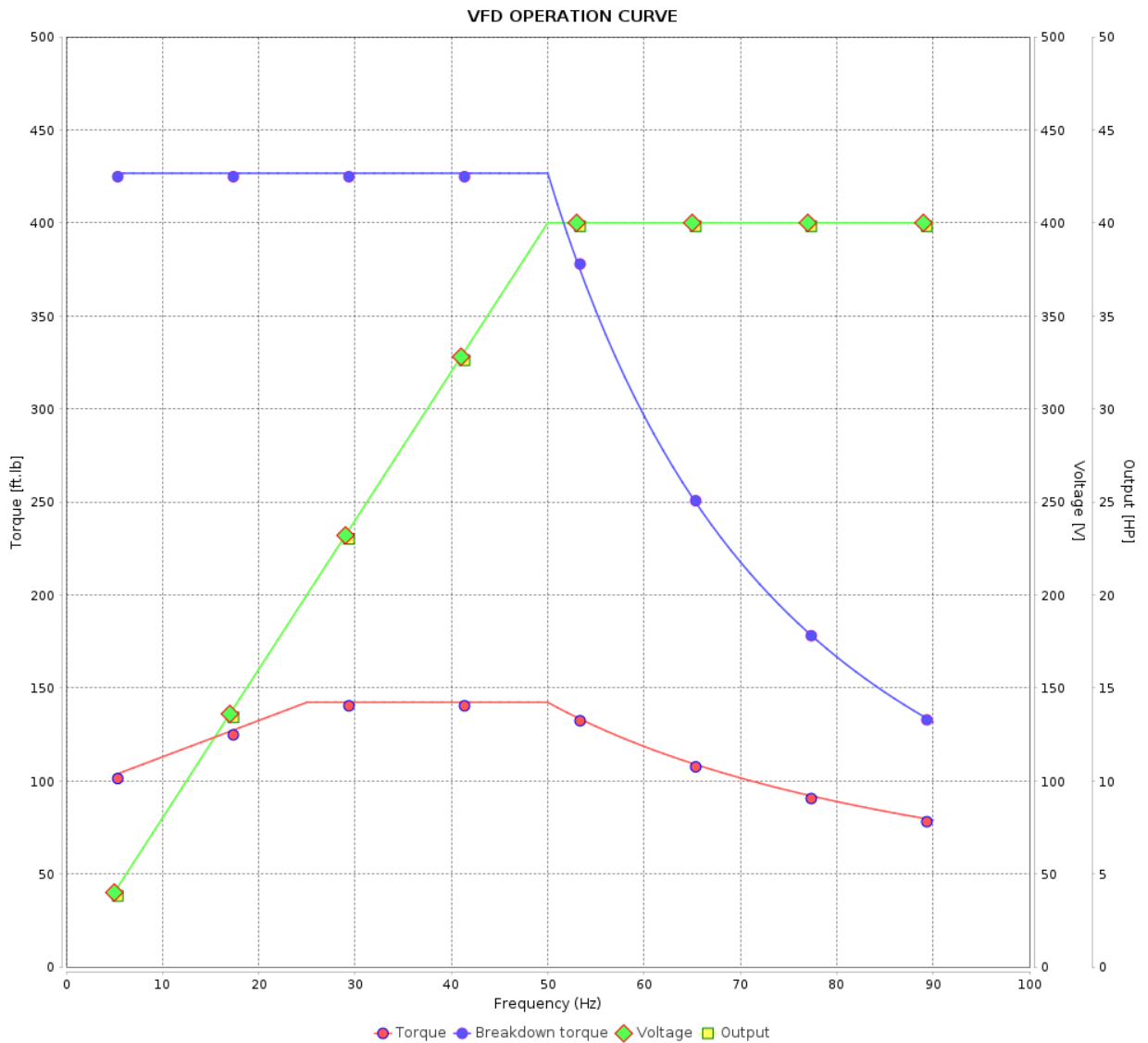


Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase

Product code : 16684654

Catalog # : 05018ST3QAP326T-W22



Performance : 400 V 50 Hz 4P IE3

Rated current : 57.1 A
 LRC : 7.0
 Rated torque : 142 ft.lb
 Locked rotor torque : 250 %
 Breakdown torque : 300 %
 Rated speed : 1477 rpm

Moment of inertia (J) : 9.16 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	04/10/2023			

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

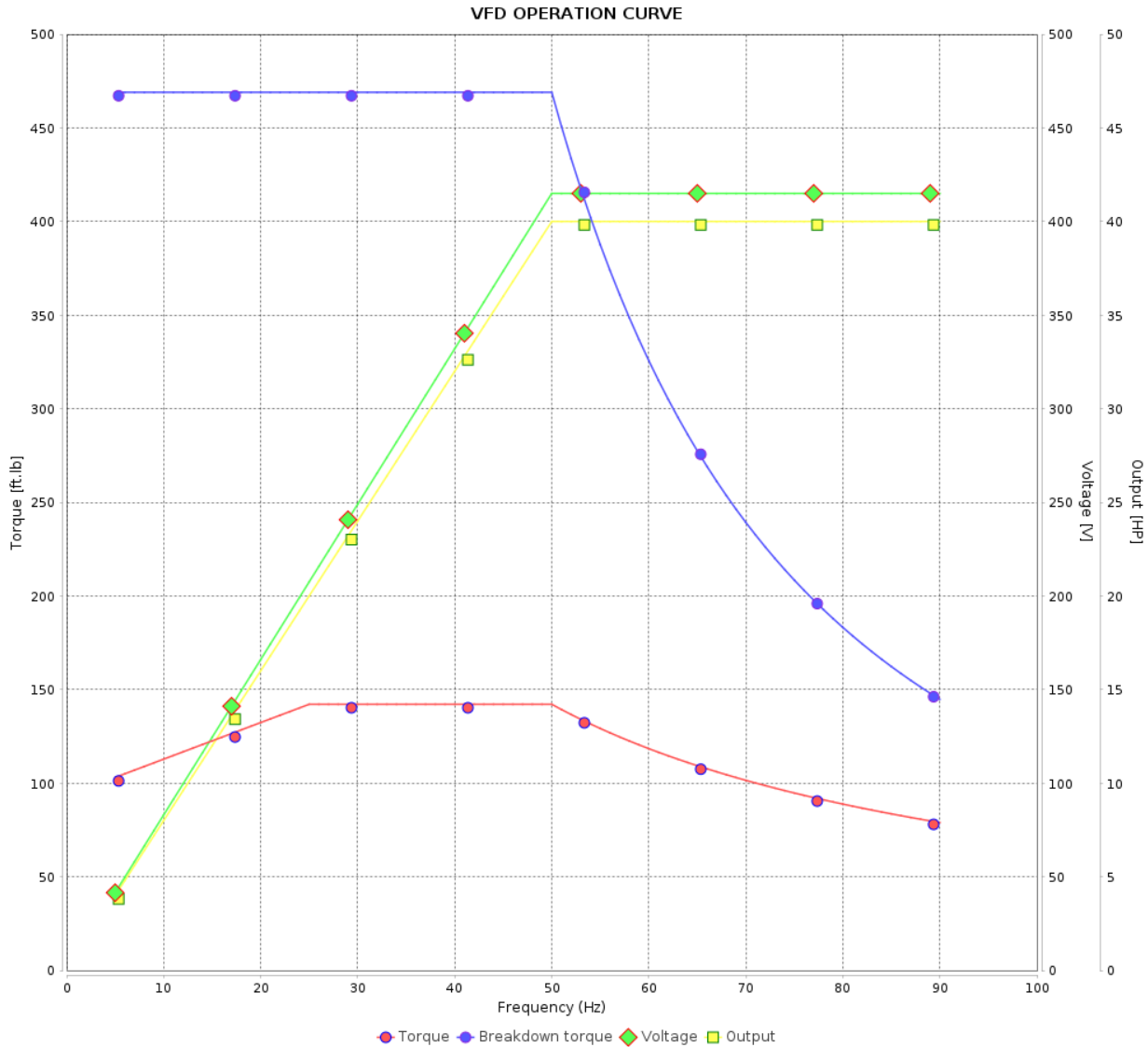


Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency
Three-Phase

Product code : 16684654

Catalog # : 05018ST3QAP326T-W22



Performance : 415 V 50 Hz 4P IE3

Rated current	: 56.4 A	Moment of inertia (J)	: 9.16 sq.ft.lb
LRC	: 7.4	Duty cycle	: Cont.(S1)
Rated torque	: 142 ft.lb	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.00
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 1478 rpm	Design	: B

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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

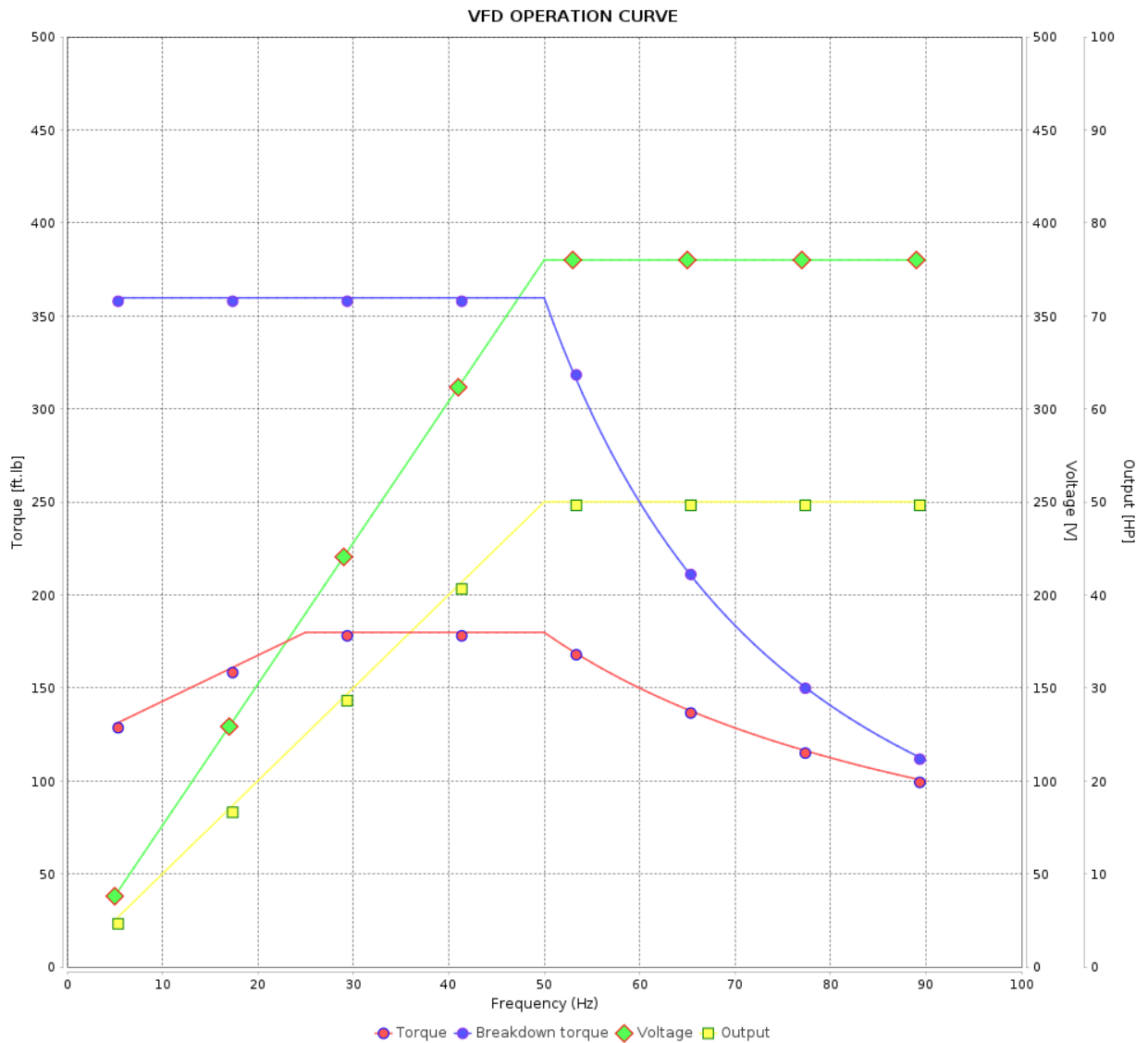


Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase

Product code : 16684654

Catalog # : 05018ST3QAP326T-W22



Performance : 380 V 50 Hz 4P IE1

Rated current : 71.6 A
 LRC : 5.2
 Rated torque : 180 ft.lb
 Locked rotor torque : 180 %
 Breakdown torque : 200 %
 Rated speed : 1460 rpm

Moment of inertia (J) : 9.16 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : B

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page		Revision
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Date		04/10/2023		

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

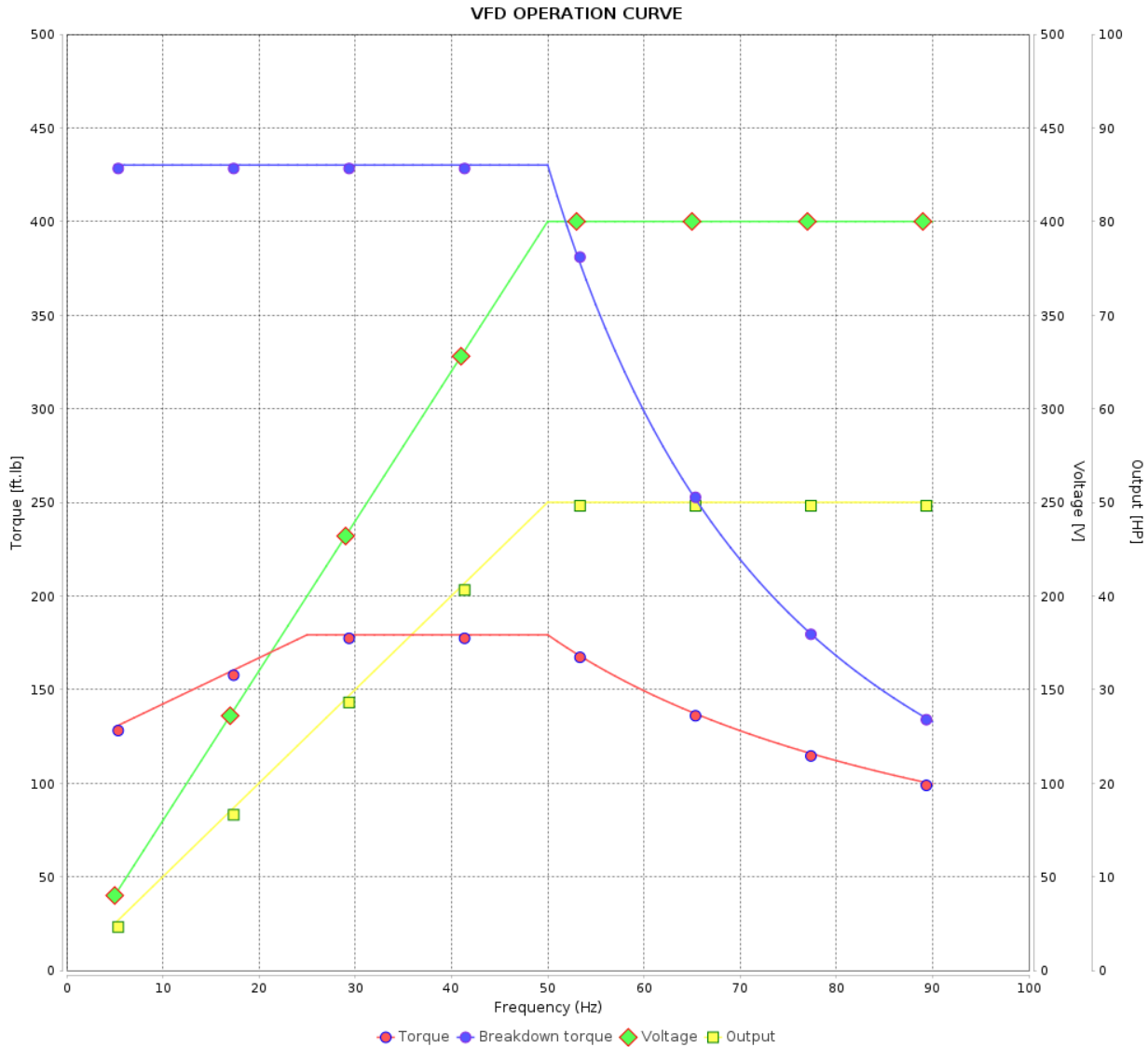


Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase

Product code : 16684654

Catalog # : 05018ST3QAP326T-W22



Performance : 400 V 50 Hz 4P IE2

Rated current : 68.4 A
 LRC : 5.8
 Rated torque : 179 ft.lb
 Locked rotor torque : 200 %
 Breakdown torque : 240 %
 Rated speed : 1465 rpm

Moment of inertia (J) : 9.16 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : B

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Performed by			Page 36 / 37	Revision
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Date	04/10/2023			

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

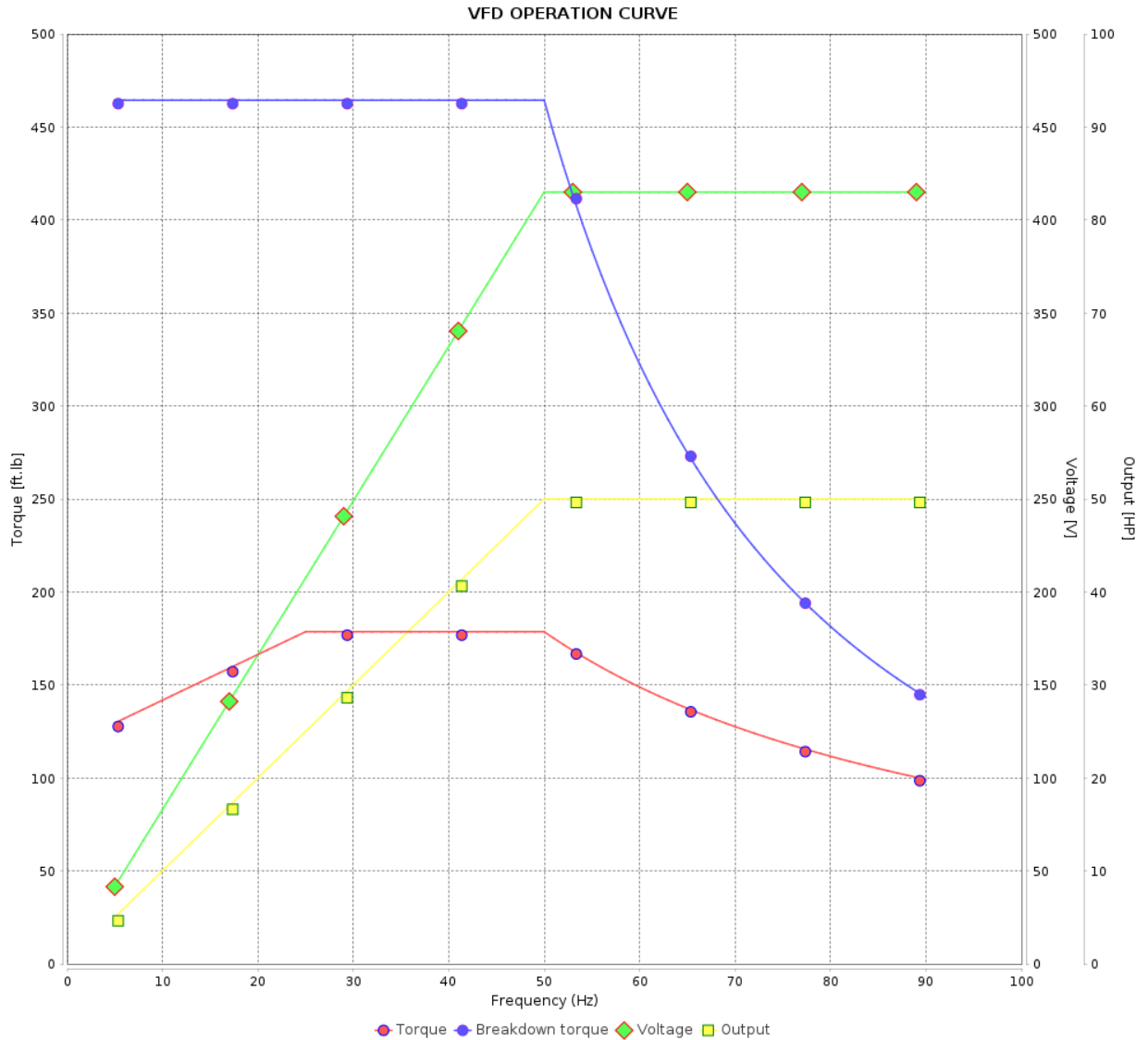


Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase

Product code : 16684654

Catalog # : 05018ST3QAP326T-W22

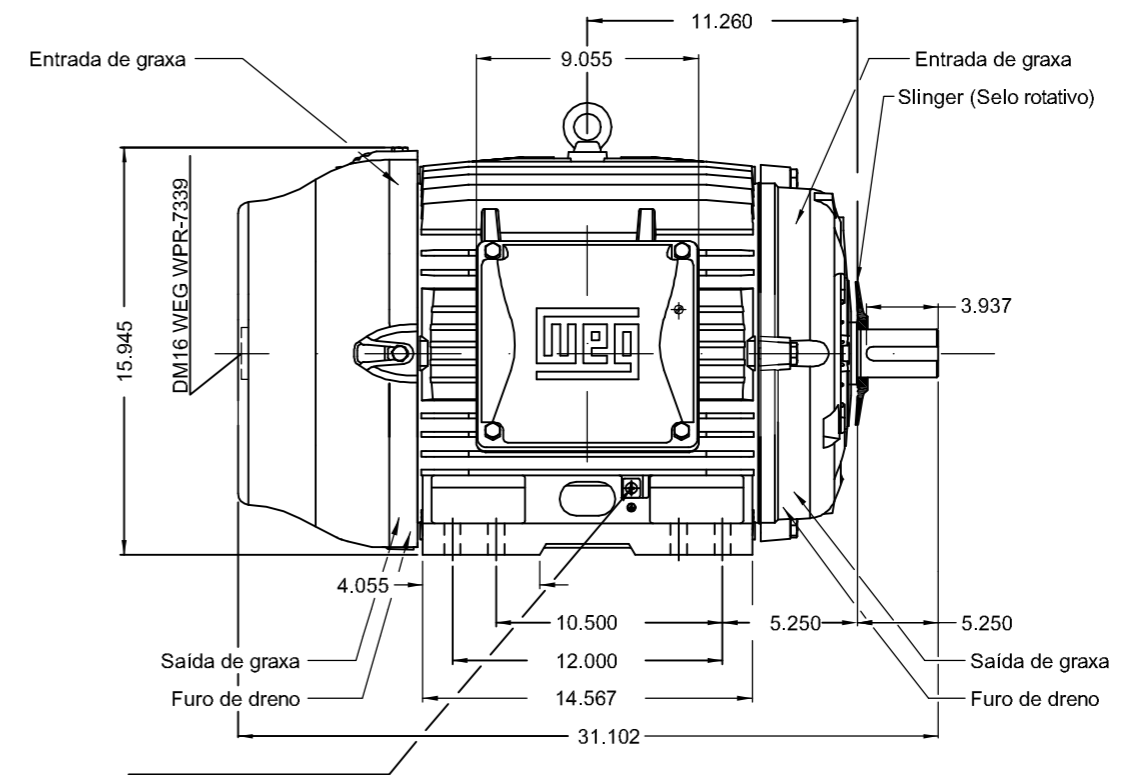
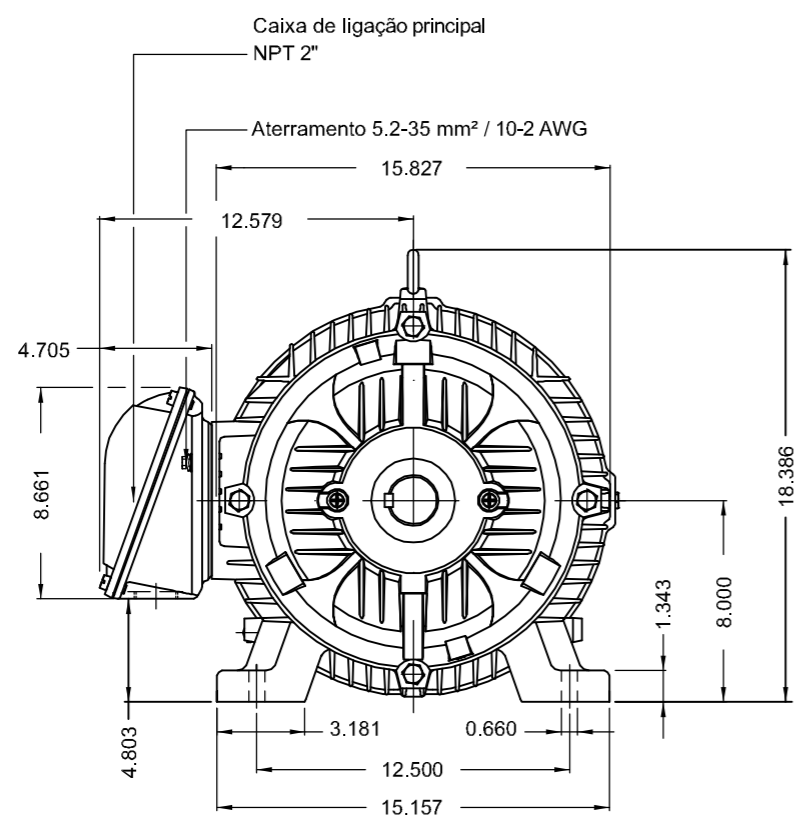


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 Breakdown torque : 260 %
 Rated speed : 1470 rpm

Moment of inertia (J) : 9.16 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : B

Rev.	Changes Summary	Performed	Checked	Date
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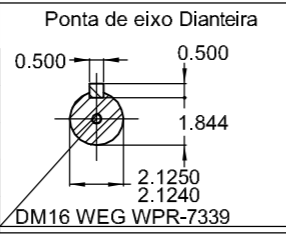
Aterramento 5.2-35 mm² / 10-2 AWG

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50 HP 04 Polos 60 Hz A

WEG HOUSE ACCOUNT MOTORS

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ECM	LOC	RESUMO MODIFICAÇÃO			EXECUTADO	VERIFICADO	LIBERADO	DATA	VER
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VERIFICADOR	DANIELAW	CARÇAÇA 324/6T IP56 TEFC		000	03				
LIBERADOR	MARLONB								
DATA LB.	07.06.2022	WMO	JARAGUA DO SUL	Engenharia de Produto	FOLHA	1 / 1			



- Placa de identificação com a marcação API 661
- Placa de identificação com marcação especial
- Saída de graxa conforme IEEE841
- Forma construtiva NEMA W-8
- Forma construtiva V6D

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Dimensões em polegadas
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