

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer							
Product line		: NEMA Premium Efficiency Three-Phase		Product code :		11448468	
				Catalog # :		00709ST3QIE256T-W22	
Frame		: 254/6T		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		: 302 lb	
Protection degree		: IP55		Moment of inertia (J)		: 4.43 sq.ft.lb	
Design		: B					
Output [HP]	7.5	5.5	5.5	5.5	7.5	7.5	7.5
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]	11.1	10.4	10.5	10.4	13.1	12.5	12.4
L. R. Amperes [A]	58.8	56.1	58.7	62.5	56.3	58.7	62.0
LRC [A]	5.3x(Code G)	5.4x(Code H)	5.6x(Code J)	6.0x(Code K)	4.3x(Code E)	4.7x(Code F)	5.0x(Code G)
No load current [A]	6.50	6.40	6.90	7.30	6.40	6.90	7.30
Rated speed [RPM]	880	730	730	735	720	725	730
Slip [%]	2.22	2.67	2.67	2.00	4.00	3.33	2.67
Rated torque [ft.lb]	44.8	39.6	39.6	39.3	54.7	54.3	54.0
Locked rotor torque [%]	200	210	229	260	150	170	190
Breakdown torque [%]	250	260	290	320	190	210	229
Service factor	1.25	1.00	1.15	1.15	1.00	1.15	1.15
Temperature rise	80 K	80 K	80 K	80 K	105 K	105 K	105 K
Locked rotor time	59s (cold)	45s (cold)	45s (cold)	45s (cold)	45s (cold)	45s (cold)	45s (cold)
	33s (hot)	25s (hot)	25s (hot)	25s (hot)	25s (hot)	25s (hot)	25s (hot)
Noise level ²	54.0 dB(A)	51.0 dB(A)	51.0 dB(A)	51.0 dB(A)	51.0 dB(A)	51.0 dB(A)	51.0 dB(A)
Efficiency (%)	25%						
	50%	85.5	84.1	81.6	81.4	85.5	84.0
	75%	87.5	85.7	84.5	84.5	85.5	85.5
	100%	87.5	85.5	85.5	85.5	84.0	85.5
Power Factor	25%						
	50%	0.50	0.47	0.44	0.42	0.57	0.53
	75%	0.63	0.60	0.56	0.54	0.69	0.66
	100%	0.71	0.69	0.65	0.63	0.76	0.74
Bearing type	: Drive end		: Non drive end		Foundation loads		
	: 6309 C3		: 6209 C3		Max. traction : 444 lb		
	: Inpro/Seal		: Inpro/Seal		Max. compression : 746 lb		
	: 20000 h		: 20000 h				
	: 13 g		: 9 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



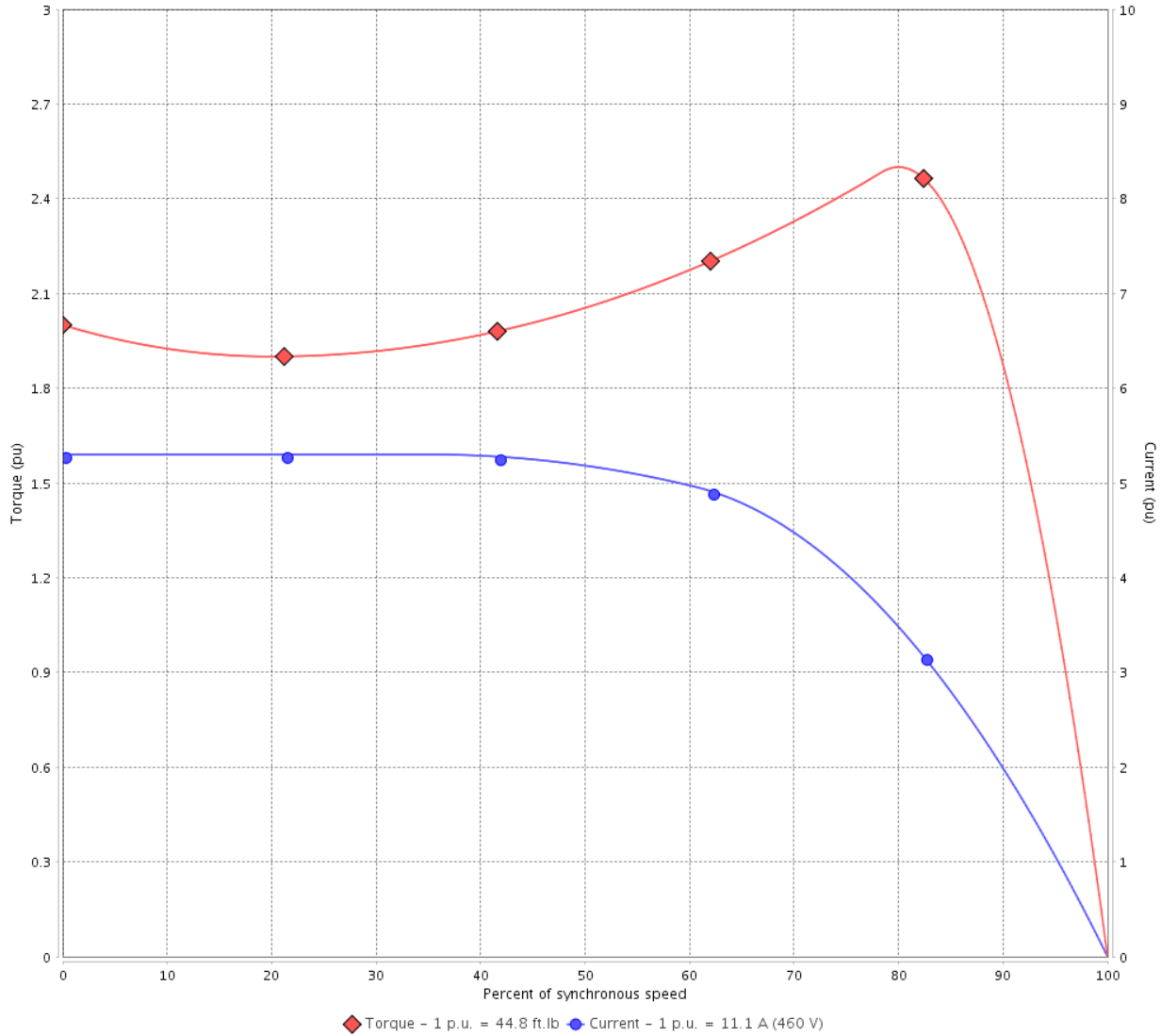
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11448468

Catalog # : 00709ST3QIE256T-W22

TORQUE AND CURRENT VS SPEED CURVE



Performance : 460 V 60 Hz 8P

Rated current	: 11.1 A	Moment of inertia (J)	: 4.43 sq.ft.lb
LRC	: 5.3	Duty cycle	: Cont.(S1)
Rated torque	: 44.8 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.25
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 880 rpm	Design	: B

Locked rotor time : 59s (cold) 33s (hot)

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TORQUE AND CURRENT VS SPEED CURVE



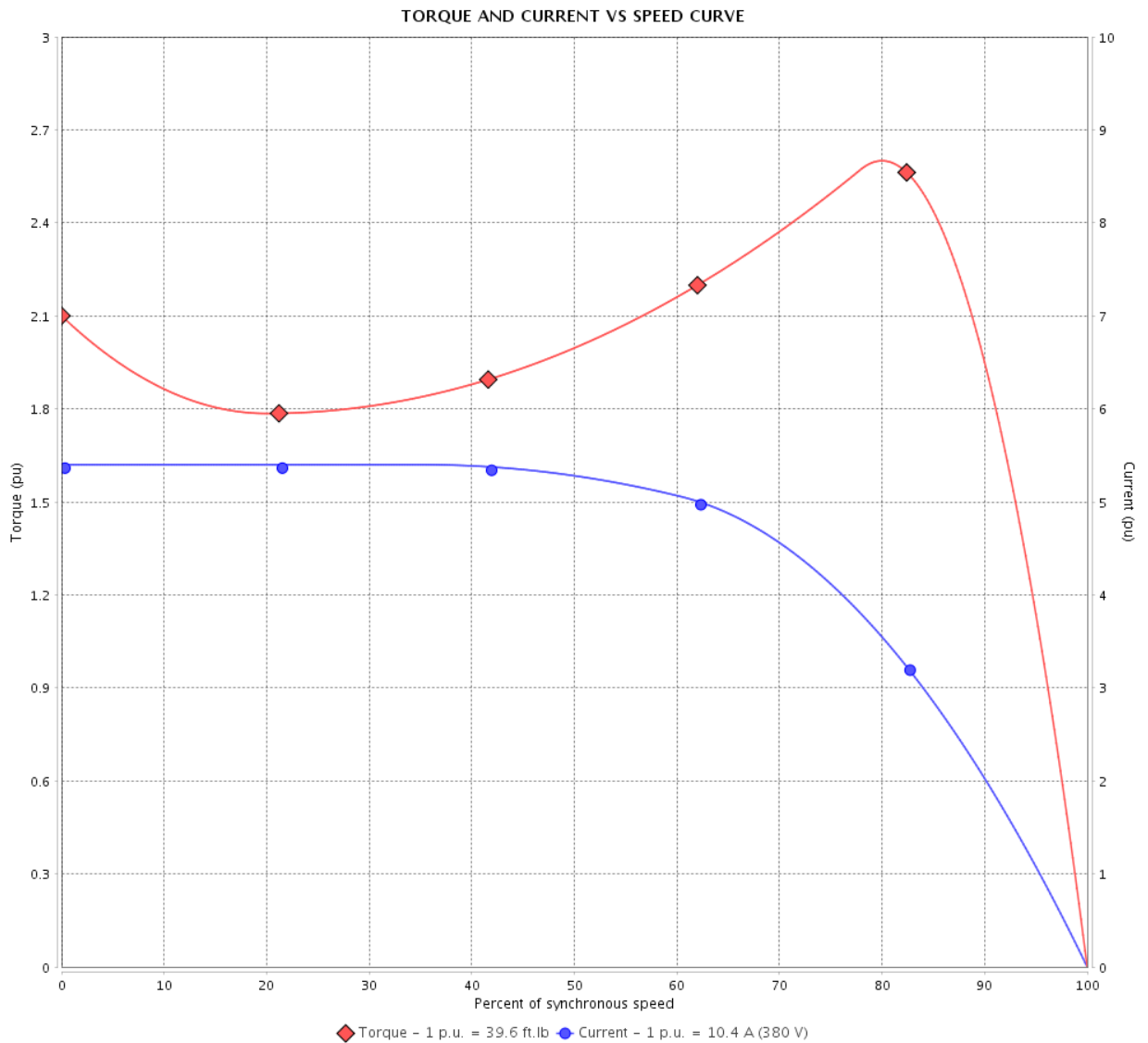
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Customer :

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Product code : 11448468

Catalog # : 00709ST3QIE256T-W22



Performance : 380 V 50 Hz 8P IE3

Rated current	: 10.4 A	Moment of inertia (J)	: 4.43 sq.ft.lb
LRC	: 5.4	Duty cycle	: Cont.(S1)
Rated torque	: 39.6 ft.lb	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.00
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 730 rpm	Design	: B

Locked rotor time : 45s (cold) 25s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

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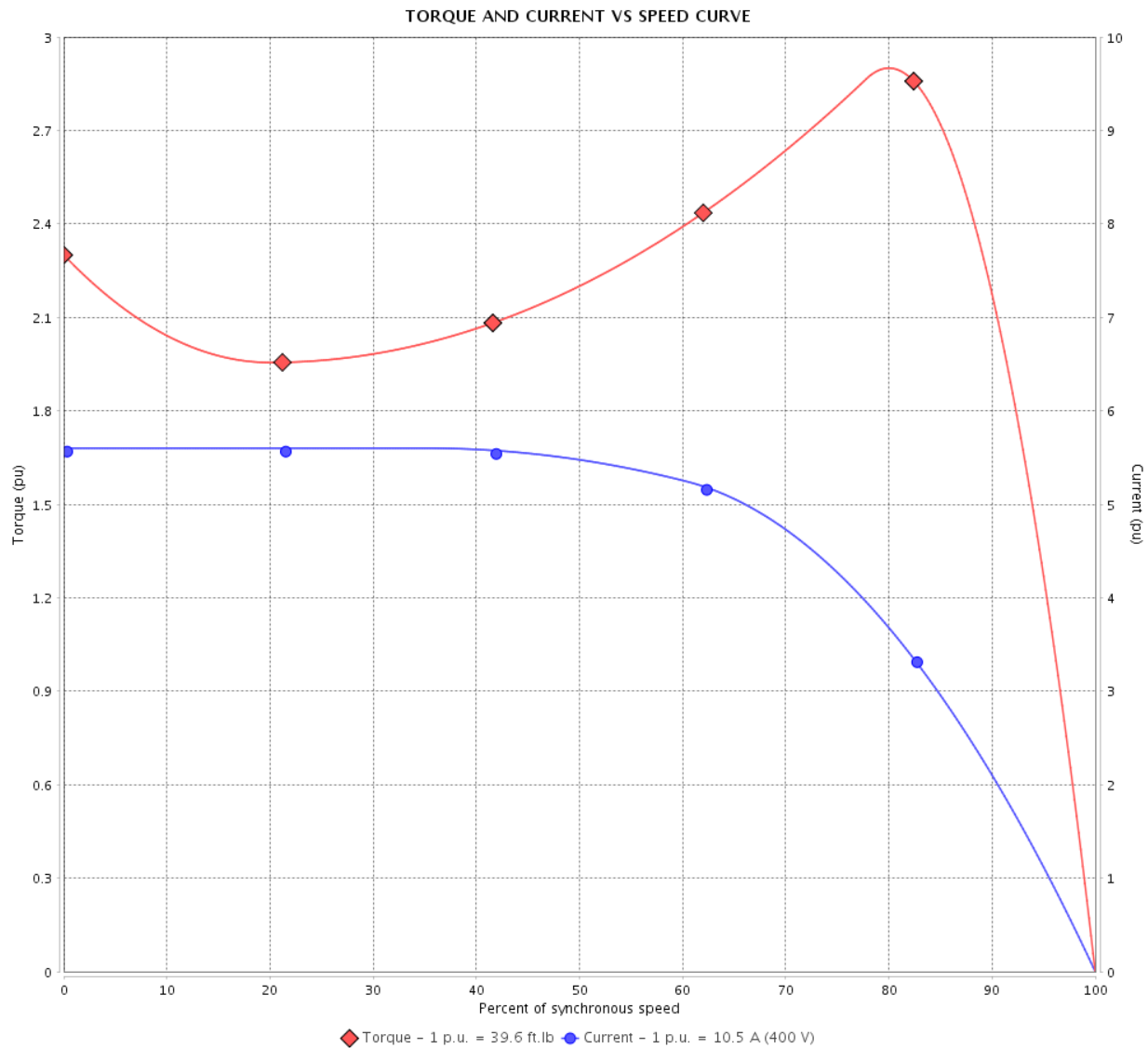


Customer :

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Performance : 400 V 50 Hz 8P IE3

Rated current	: 10.5 A	Moment of inertia (J)	: 4.43 sq.ft.lb
LRC	: 5.6	Duty cycle	: Cont.(S1)
Rated torque	: 39.6 ft.lb	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.15
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 730 rpm	Design	: B

Locked rotor time : 45s (cold) 25s (hot)

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TORQUE AND CURRENT VS SPEED CURVE



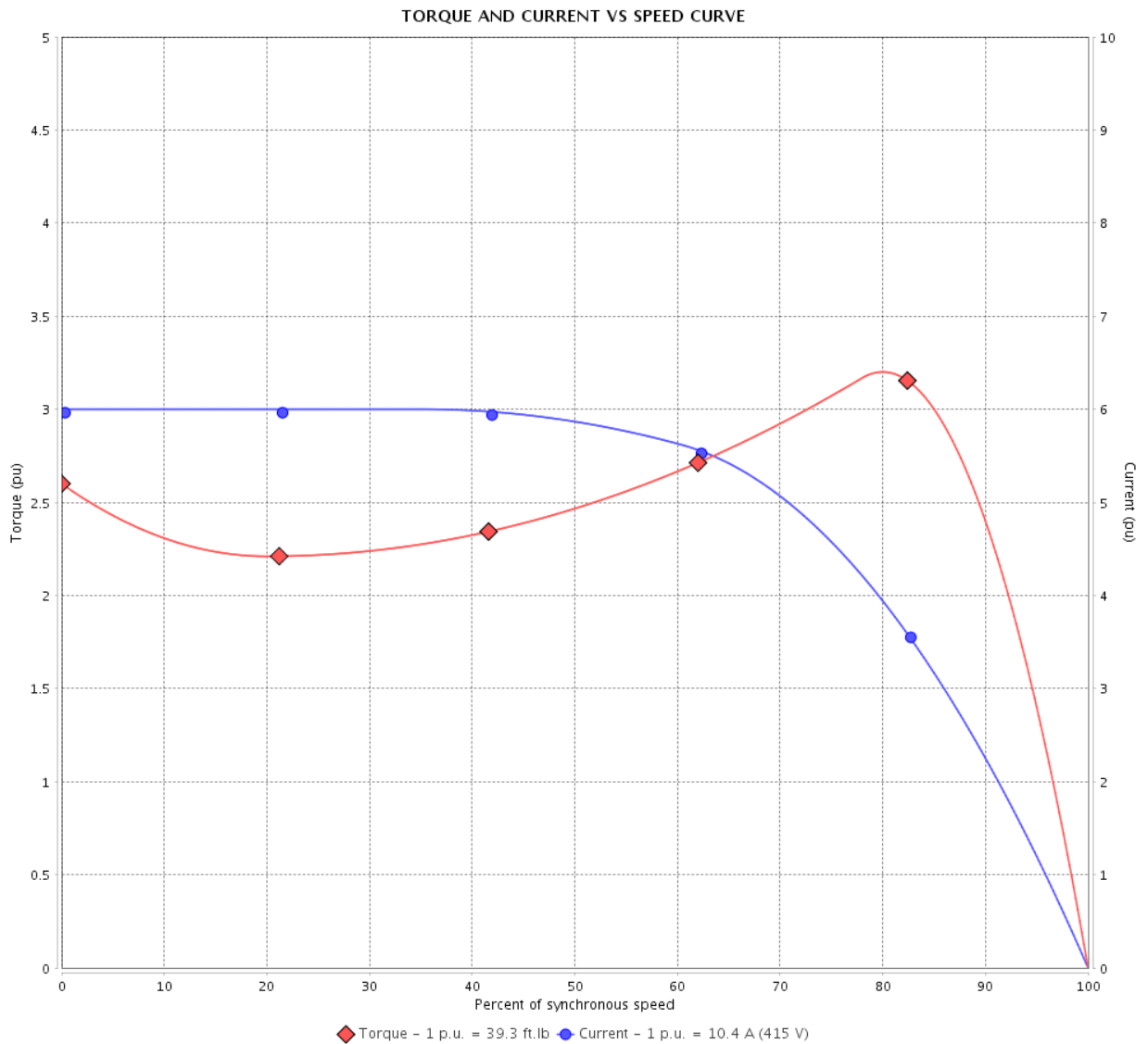
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Performance : 415 V 50 Hz 8P IE3

Rated current	: 10.4 A	Moment of inertia (J)	: 4.43 sq.ft.lb
LRC	: 6.0	Duty cycle	: Cont.(S1)
Rated torque	: 39.3 ft.lb	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.15
Breakdown torque	: 320 %	Temperature rise	: 80 K
Rated speed	: 735 rpm	Design	: B

Locked rotor time : 45s (cold) 25s (hot)

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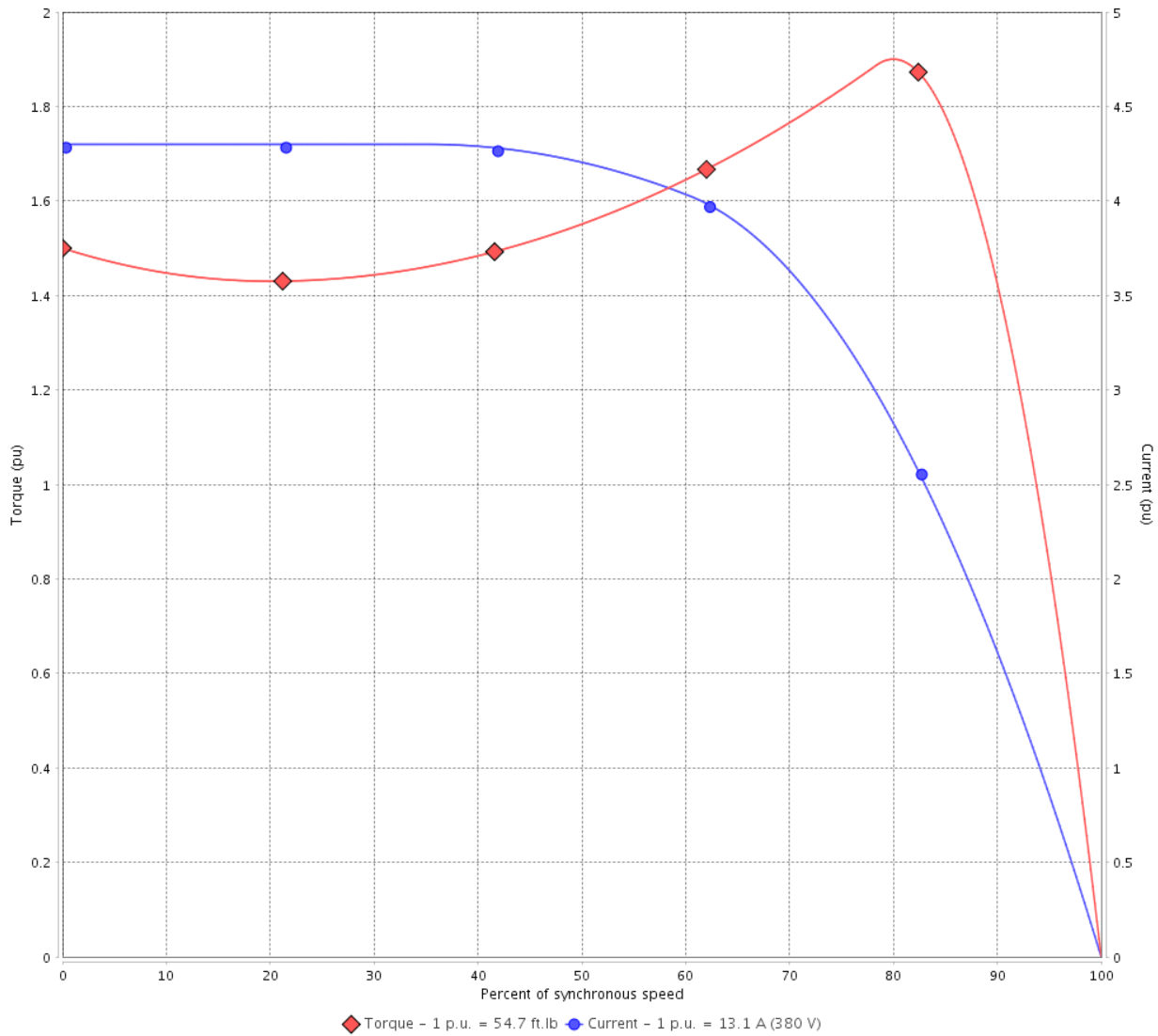
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TORQUE AND CURRENT VS SPEED CURVE



Performance : 380 V 50 Hz 8P IE2

Rated current	: 13.1 A	Moment of inertia (J)	: 4.43 sq.ft.lb
LRC	: 4.3	Duty cycle	: Cont.(S1)
Rated torque	: 54.7 ft.lb	Insulation class	: F
Locked rotor torque	: 150 %	Service factor	: 1.00
Breakdown torque	: 190 %	Temperature rise	: 105 K
Rated speed	: 720 rpm	Design	: B

Locked rotor time : 45s (cold) 25s (hot)

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TORQUE AND CURRENT VS SPEED CURVE



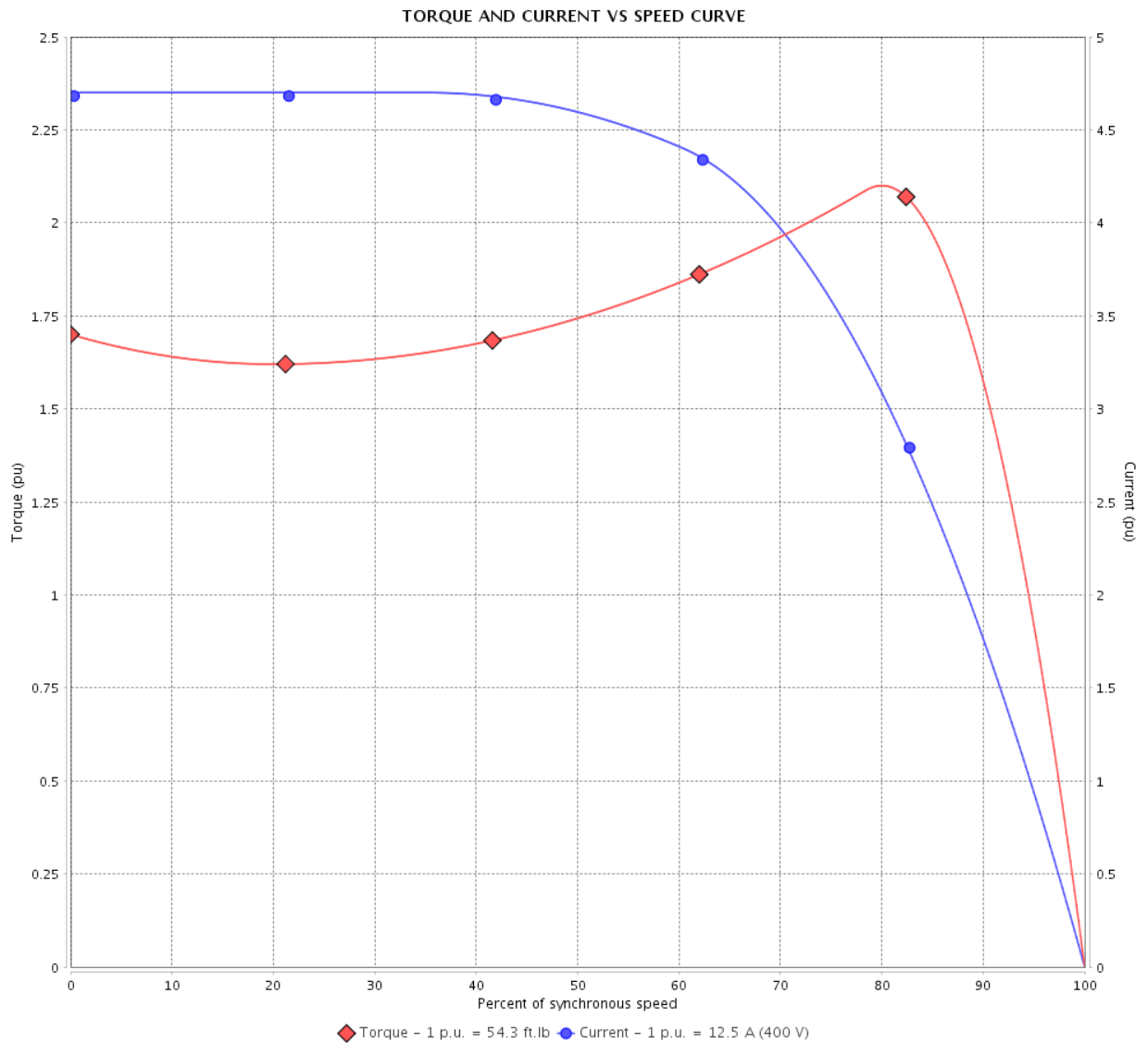
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Performance : 400 V 50 Hz 8P IE2

Rated current	: 12.5 A	Moment of inertia (J)	: 4.43 sq.ft.lb
LRC	: 4.7	Duty cycle	: Cont.(S1)
Rated torque	: 54.3 ft.lb	Insulation class	: F
Locked rotor torque	: 170 %	Service factor	: 1.15
Breakdown torque	: 210 %	Temperature rise	: 105 K
Rated speed	: 725 rpm	Design	: B

Locked rotor time : 45s (cold) 25s (hot)

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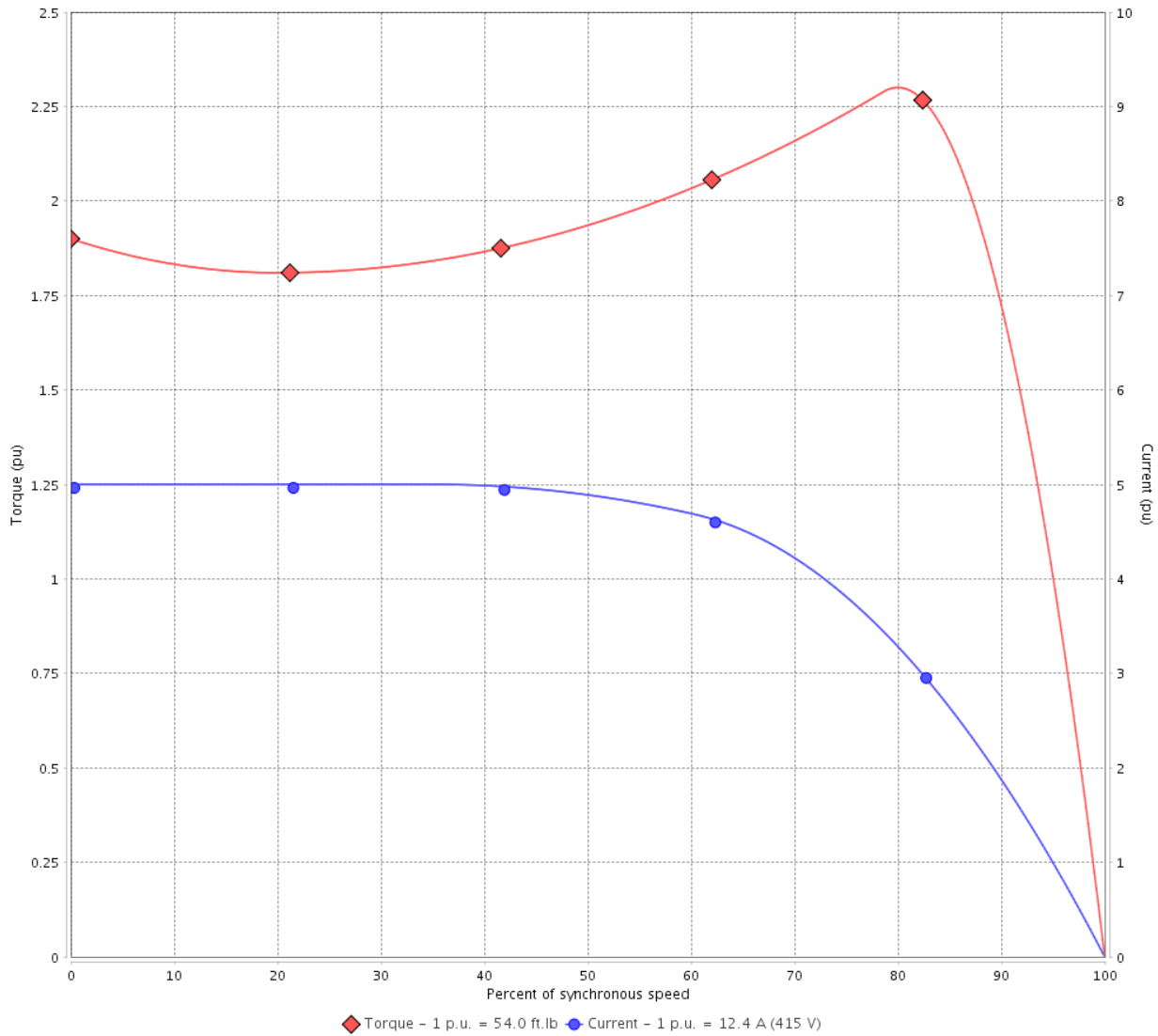
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TORQUE AND CURRENT VS SPEED CURVE



Performance : 415 V 50 Hz 8P IE2

Rated current	: 12.4 A	Moment of inertia (J)	: 4.43 sq.ft.lb
LRC	: 5.0	Duty cycle	: Cont.(S1)
Rated torque	: 54.0 ft.lb	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.15
Breakdown torque	: 229 %	Temperature rise	: 105 K
Rated speed	: 730 rpm	Design	: B

Locked rotor time : 45s (cold) 25s (hot)

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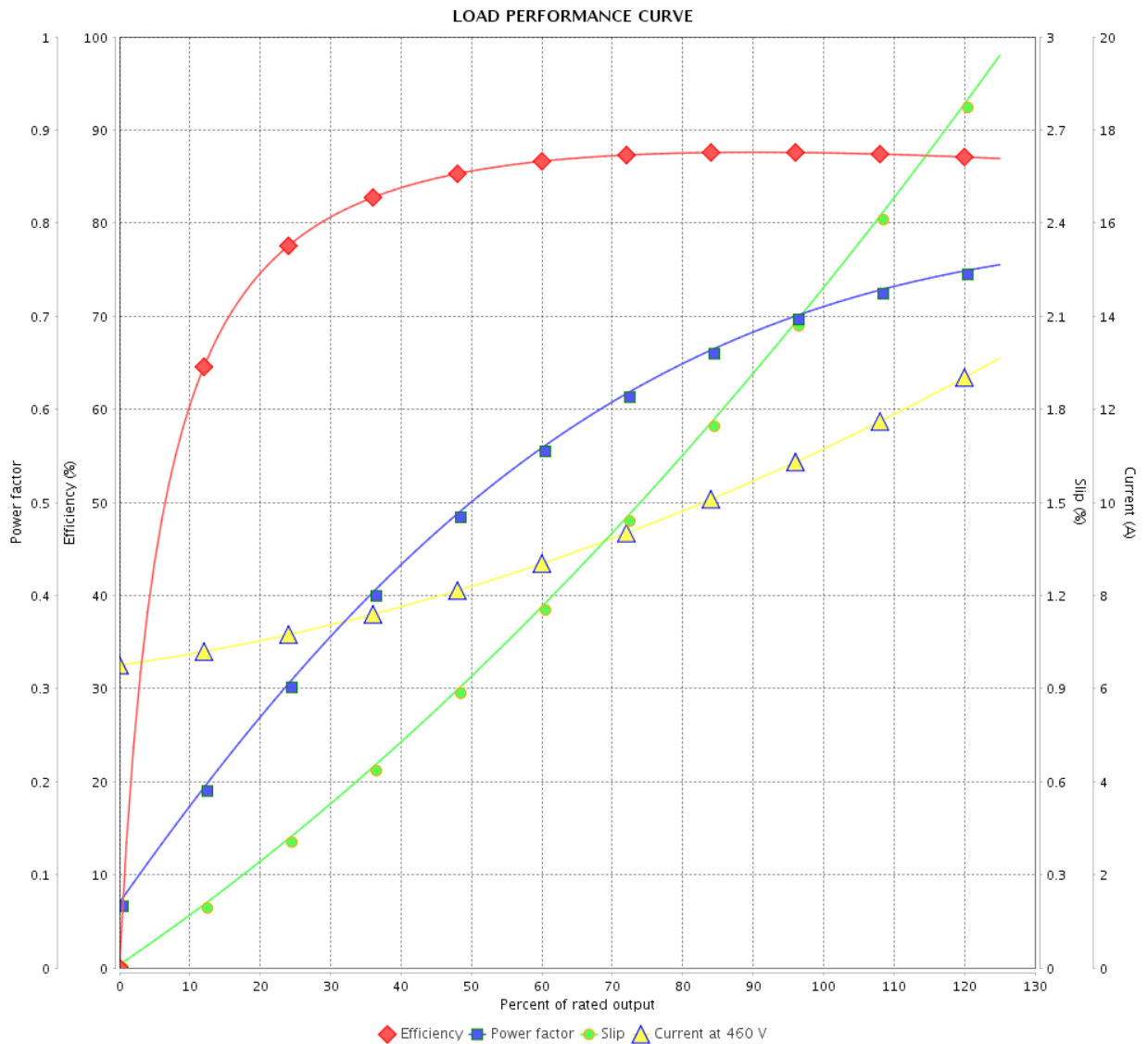


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Performance : 460 V 60 Hz 8P

Rated current : 11.1 A
 LRC : 5.3
 Rated torque : 44.8 ft.lb
 Locked rotor torque : 200 %
 Breakdown torque : 250 %
 Rated speed : 880 rpm

Moment of inertia (J) : 4.43 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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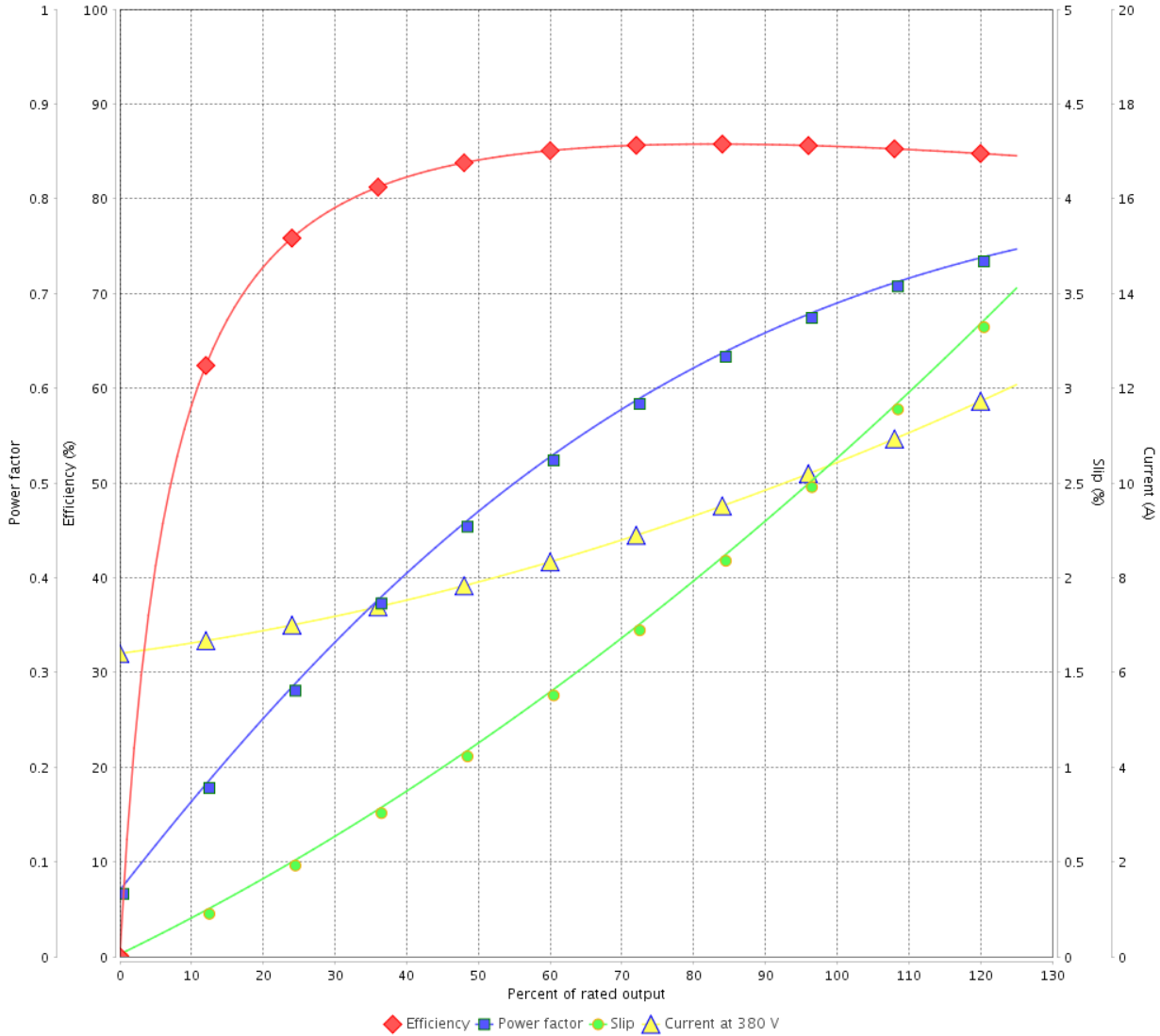
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Performance : 380 V 50 Hz 8P IE3

Rated current : 10.4 A
 LRC : 5.4
 Rated torque : 39.6 ft.lb
 Locked rotor torque : 210 %
 Breakdown torque : 260 %
 Rated speed : 730 rpm

Moment of inertia (J) : 4.43 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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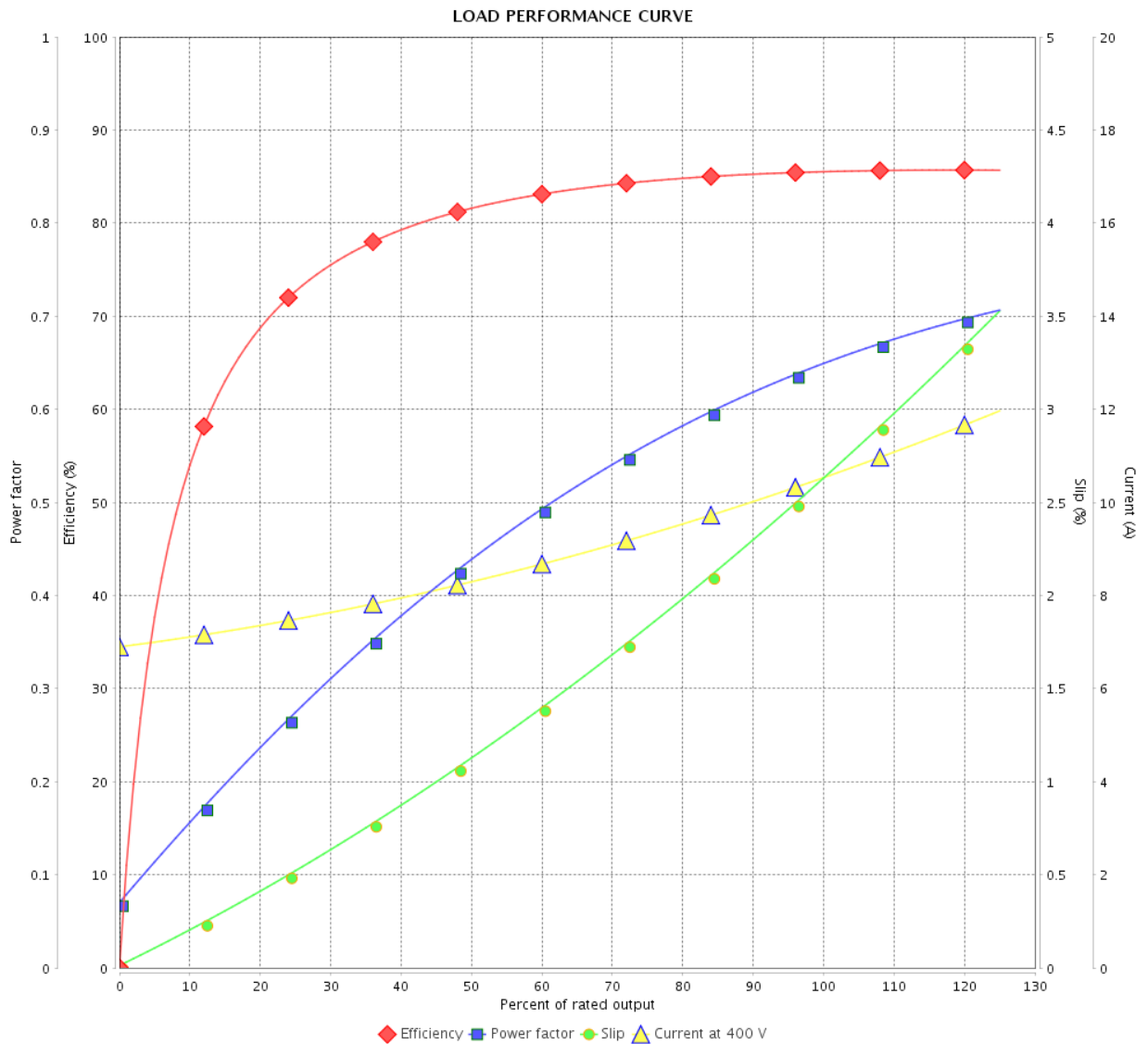


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 LRC : 5.6
 Rated torque : 39.6 ft.lb
 Locked rotor torque : 229 %
 Breakdown torque : 290 %
 Rated speed : 730 rpm

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 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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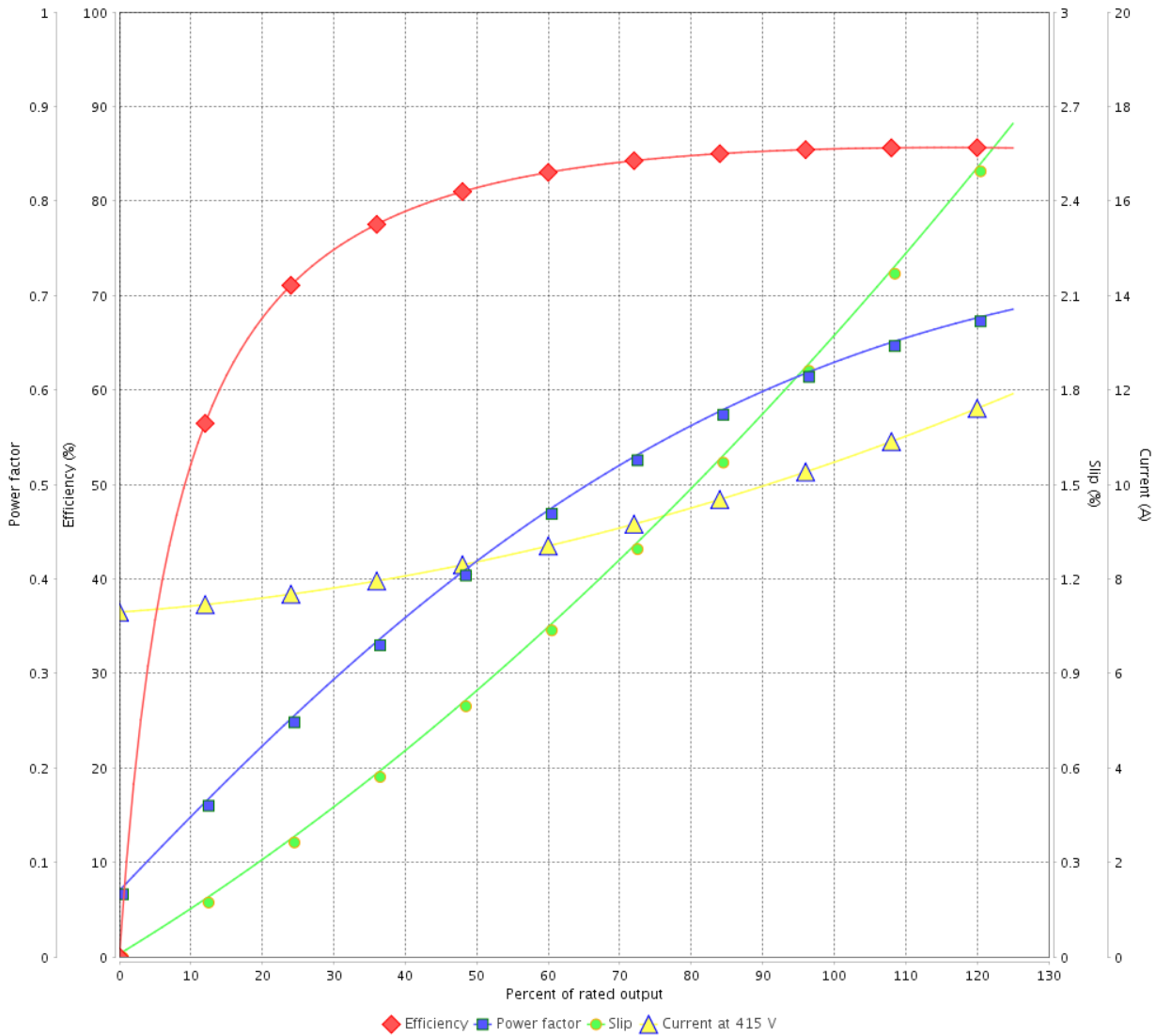
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 LRC : 6.0
 Rated torque : 39.3 ft.lb
 Locked rotor torque : 260 %
 Breakdown torque : 320 %
 Rated speed : 735 rpm

Moment of inertia (J) : 4.43 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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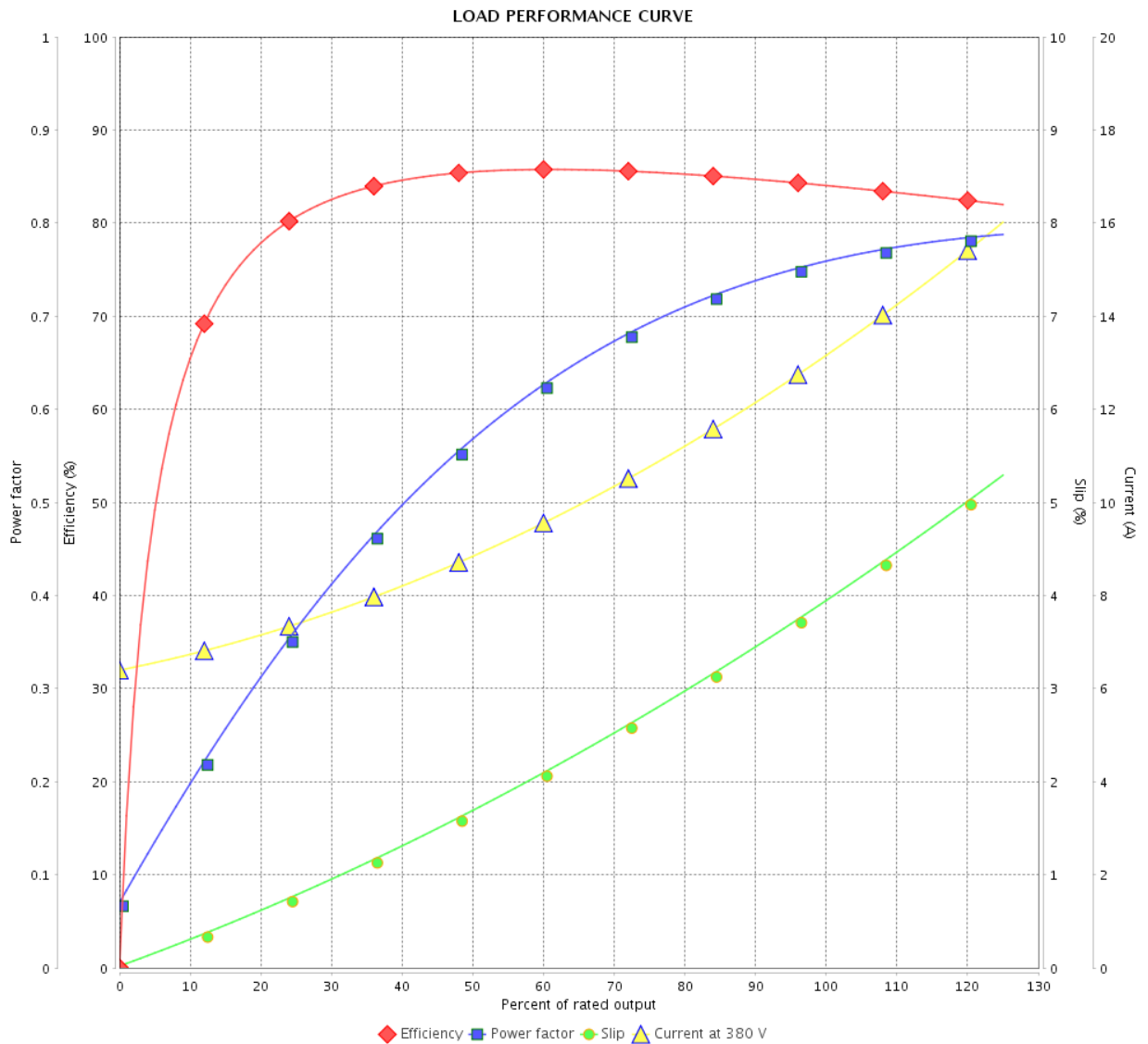


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Product code : 11448468

Catalog # : 00709ST3QIE256T-W22



Performance : 380 V 50 Hz 8P IE2

Rated current : 13.1 A
 LRC : 4.3
 Rated torque : 54.7 ft.lb
 Locked rotor torque : 150 %
 Breakdown torque : 190 %
 Rated speed : 720 rpm

Moment of inertia (J) : 4.43 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : B

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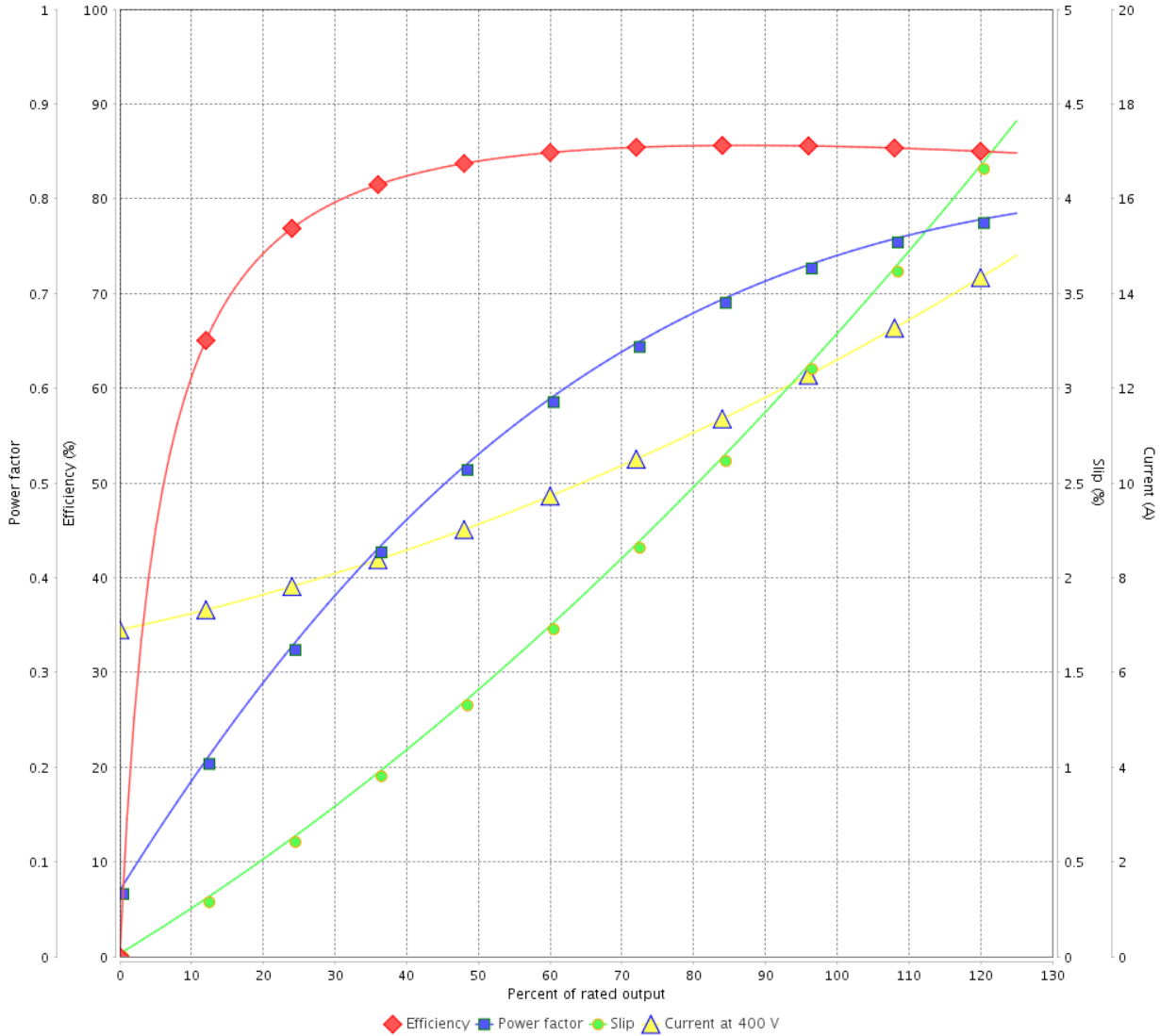
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Performance : 400 V 50 Hz 8P IE2

Rated current : 12.5 A
 LRC : 4.7
 Rated torque : 54.3 ft.lb
 Locked rotor torque : 170 %
 Breakdown torque : 210 %
 Rated speed : 725 rpm

Moment of inertia (J) : 4.43 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 105 K
 Design : B

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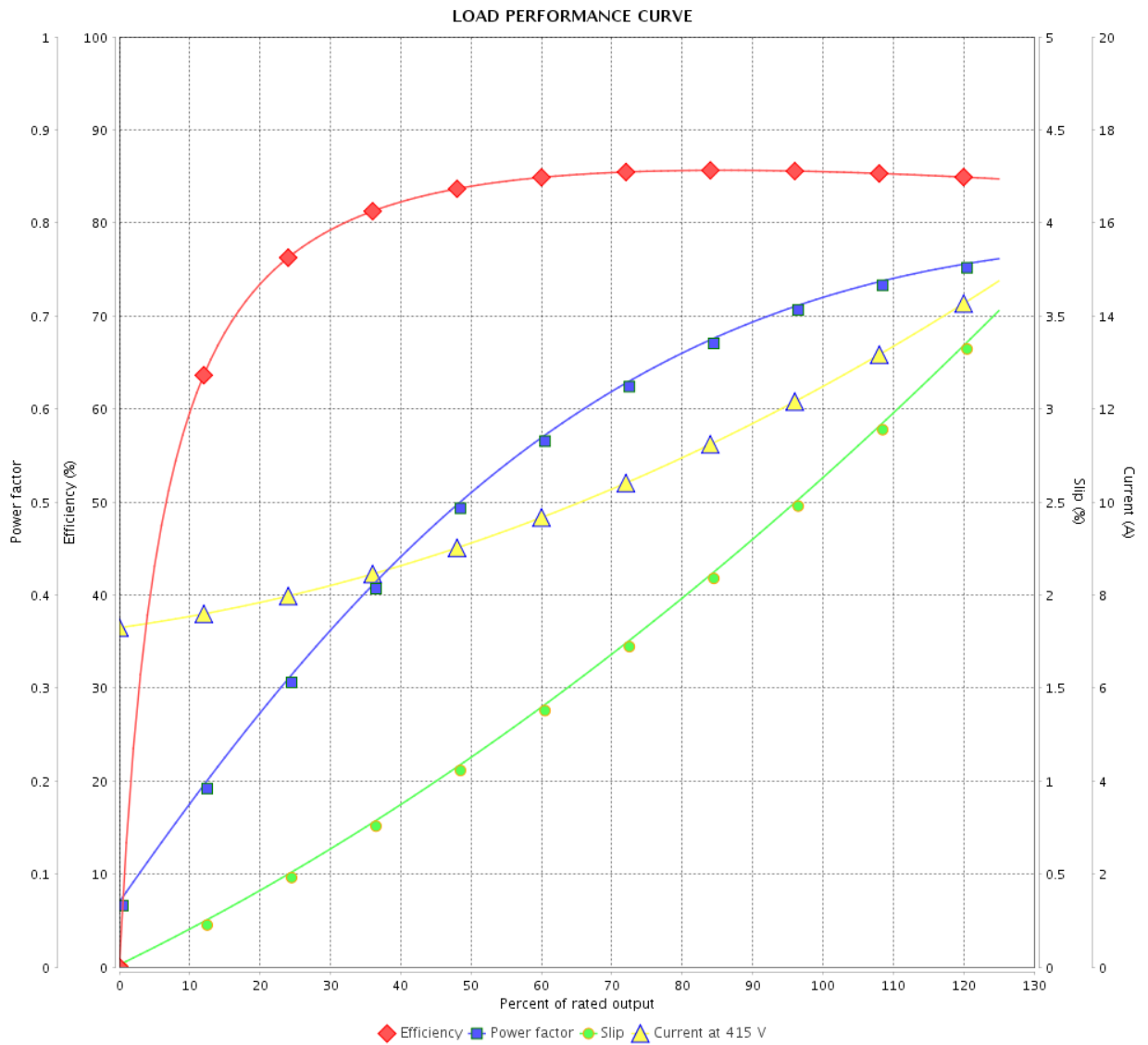


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11448468

Catalog # : 00709ST3QIE256T-W22



Performance : 415 V 50 Hz 8P IE2

Rated current : 12.4 A
 LRC : 5.0
 Rated torque : 54.0 ft.lb
 Locked rotor torque : 190 %
 Breakdown torque : 229 %
 Rated speed : 730 rpm

Moment of inertia (J) : 4.43 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 105 K
 Design : B

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THERMAL LIMIT CURVE



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Rated current	: 11.1 A	Moment of inertia (J)	: 4.43 sq.ft.lb
LRC	: 5.3	Duty cycle	: Cont.(S1)
Rated torque	: 44.8 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.25
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 880 rpm	Design	: B

Heating constant

Cooling constant

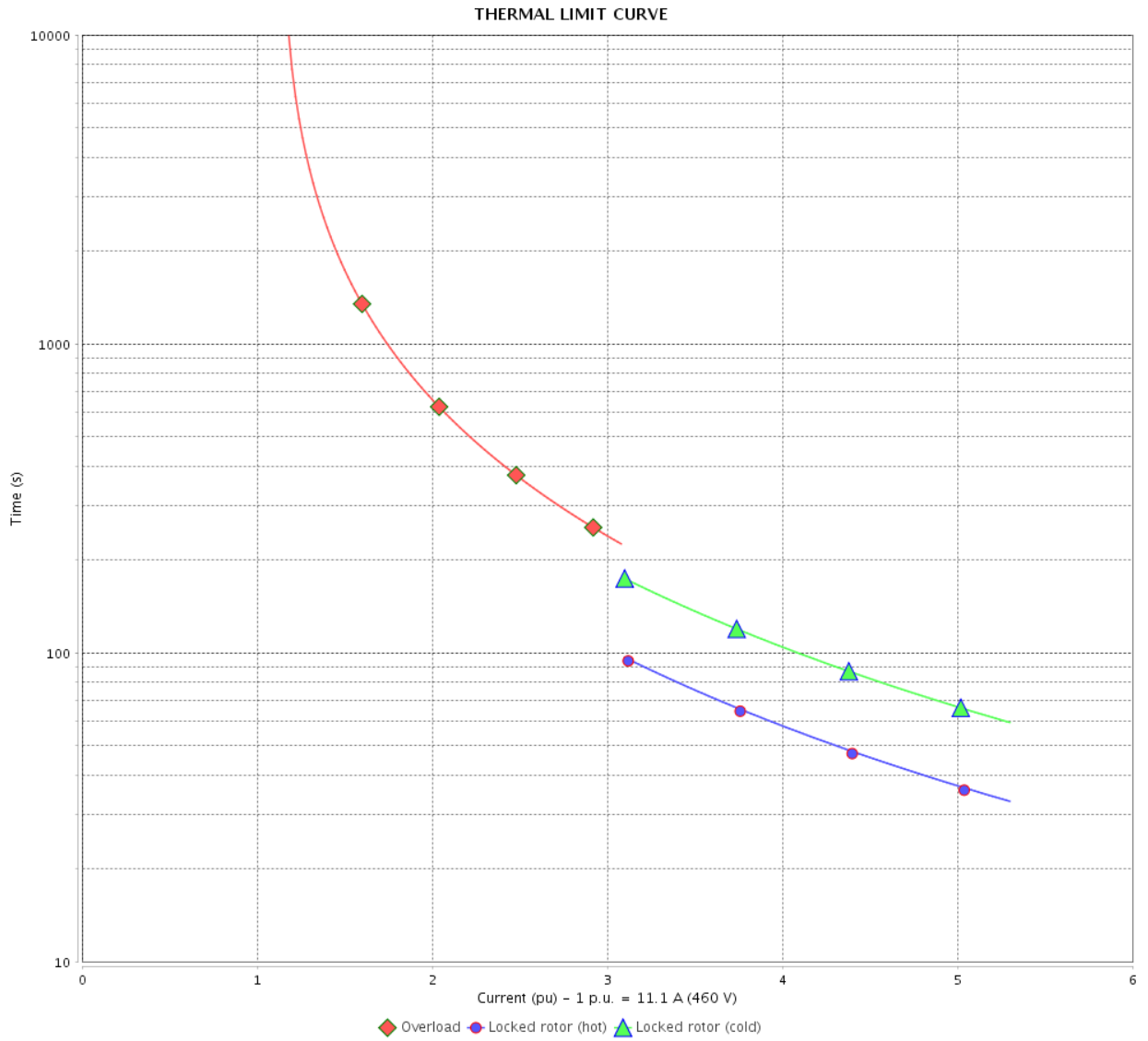
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Three Phase Induction Motor - Squirrel Cage



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Performance : 380 V 50 Hz 8P IE3

Rated current : 10.4 A	Moment of inertia (J) : 4.43 sq.ft.lb
LRC : 5.4	Duty cycle : Cont.(S1)
Rated torque : 39.6 ft.lb	Insulation class : F
Locked rotor torque : 210 %	Service factor : 1.00
Breakdown torque : 260 %	Temperature rise : 80 K
Rated speed : 730 rpm	Design : B

Heating constant

Cooling constant

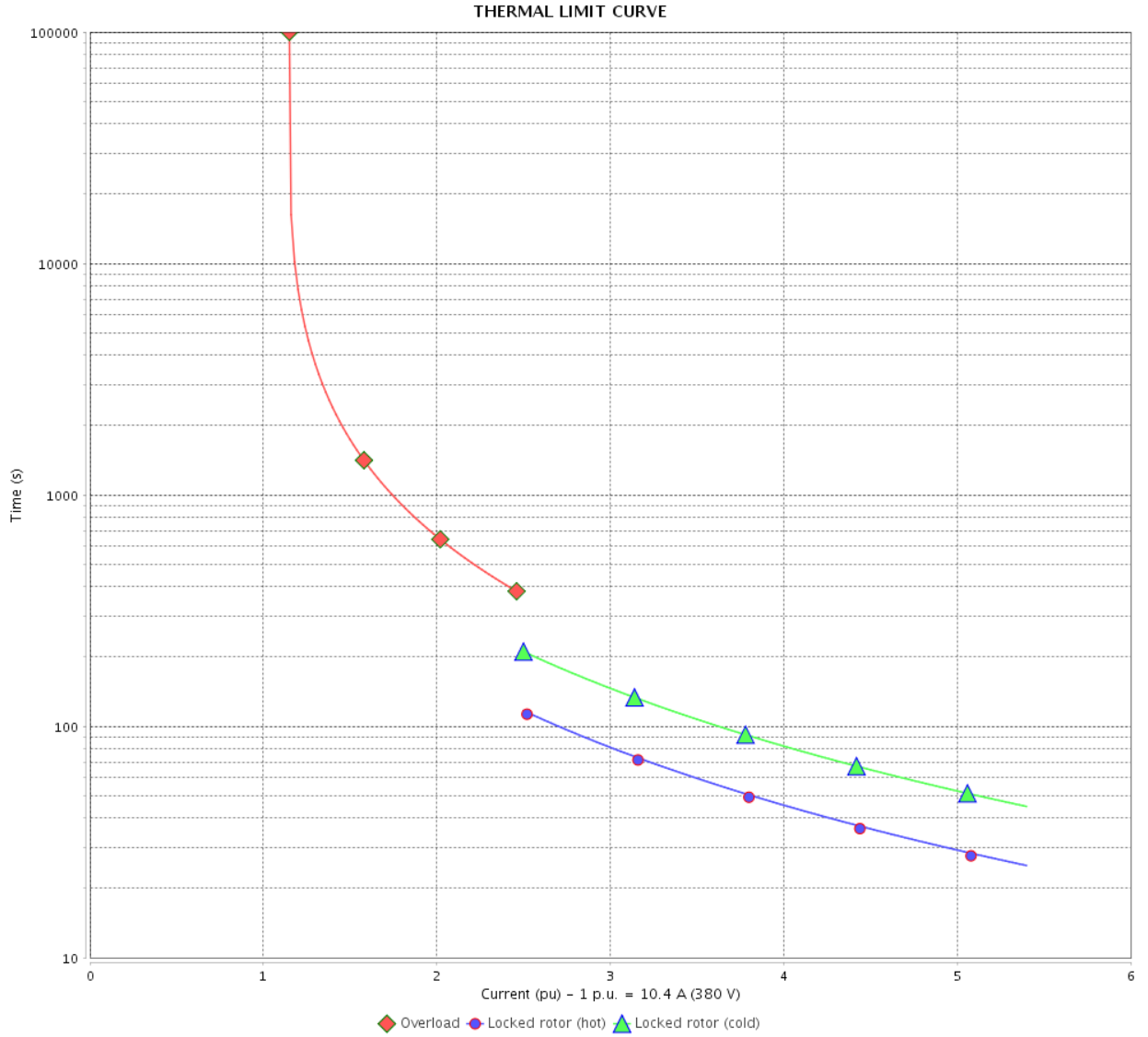
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Heating constant

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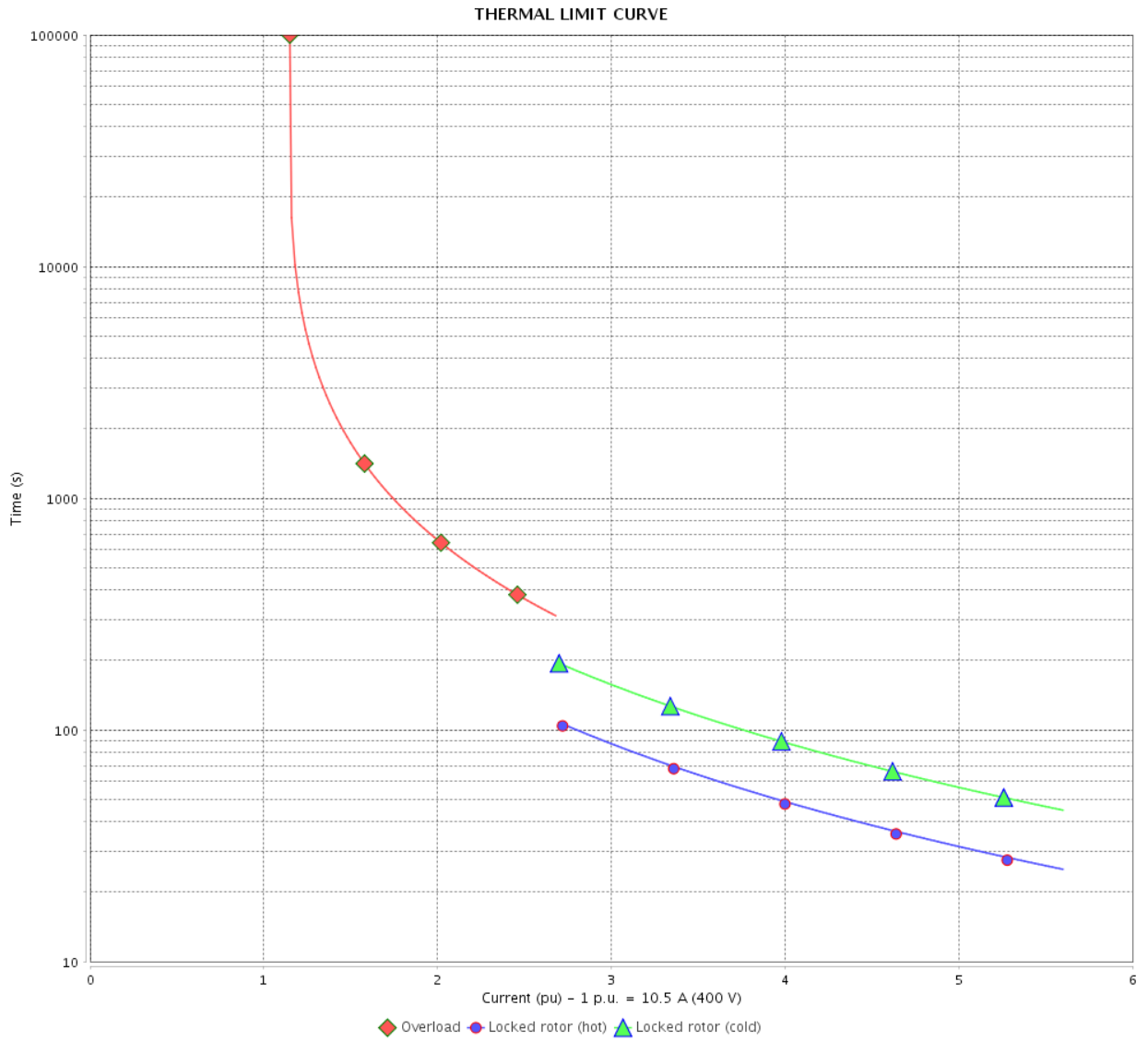
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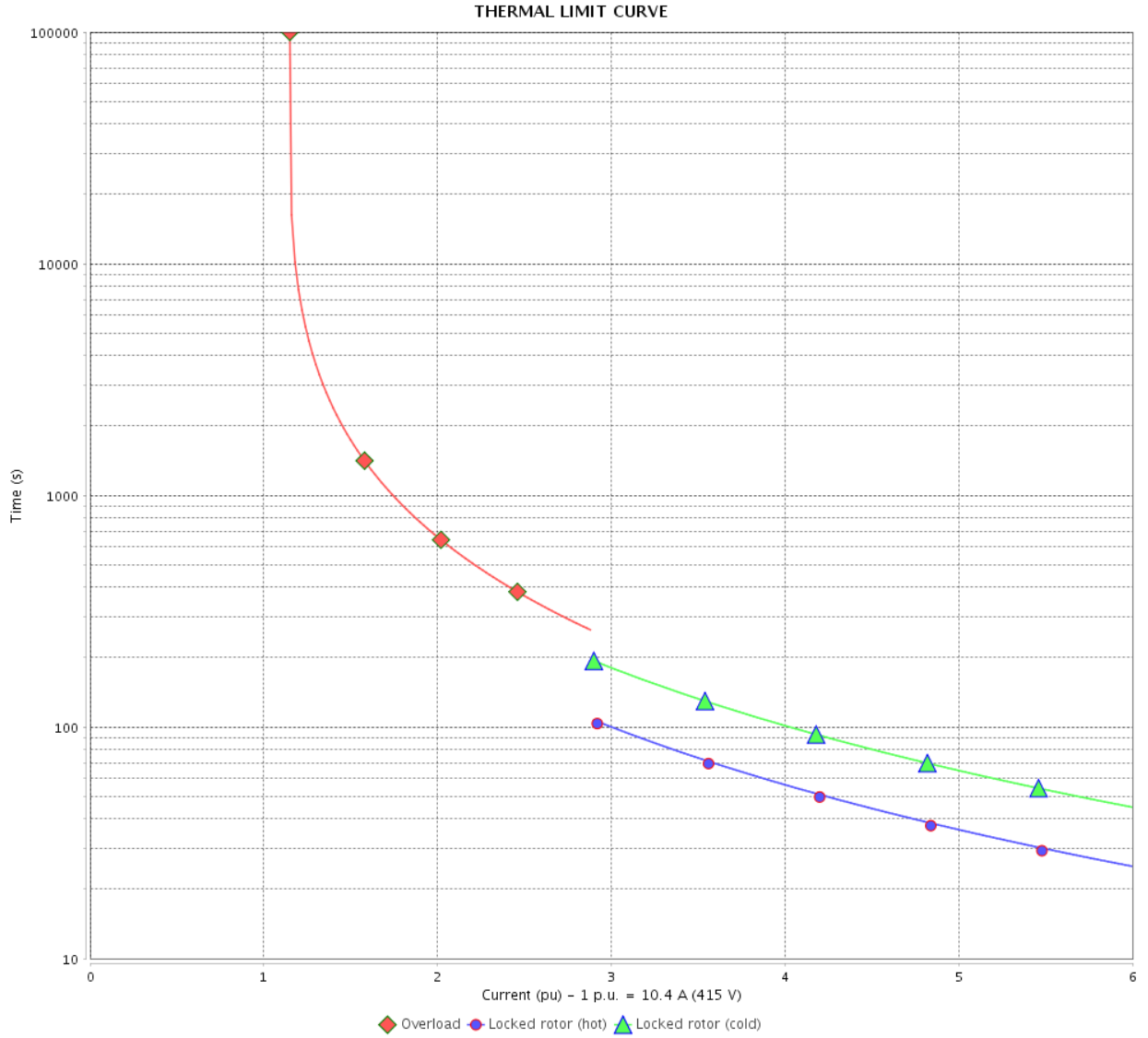
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Cooling constant

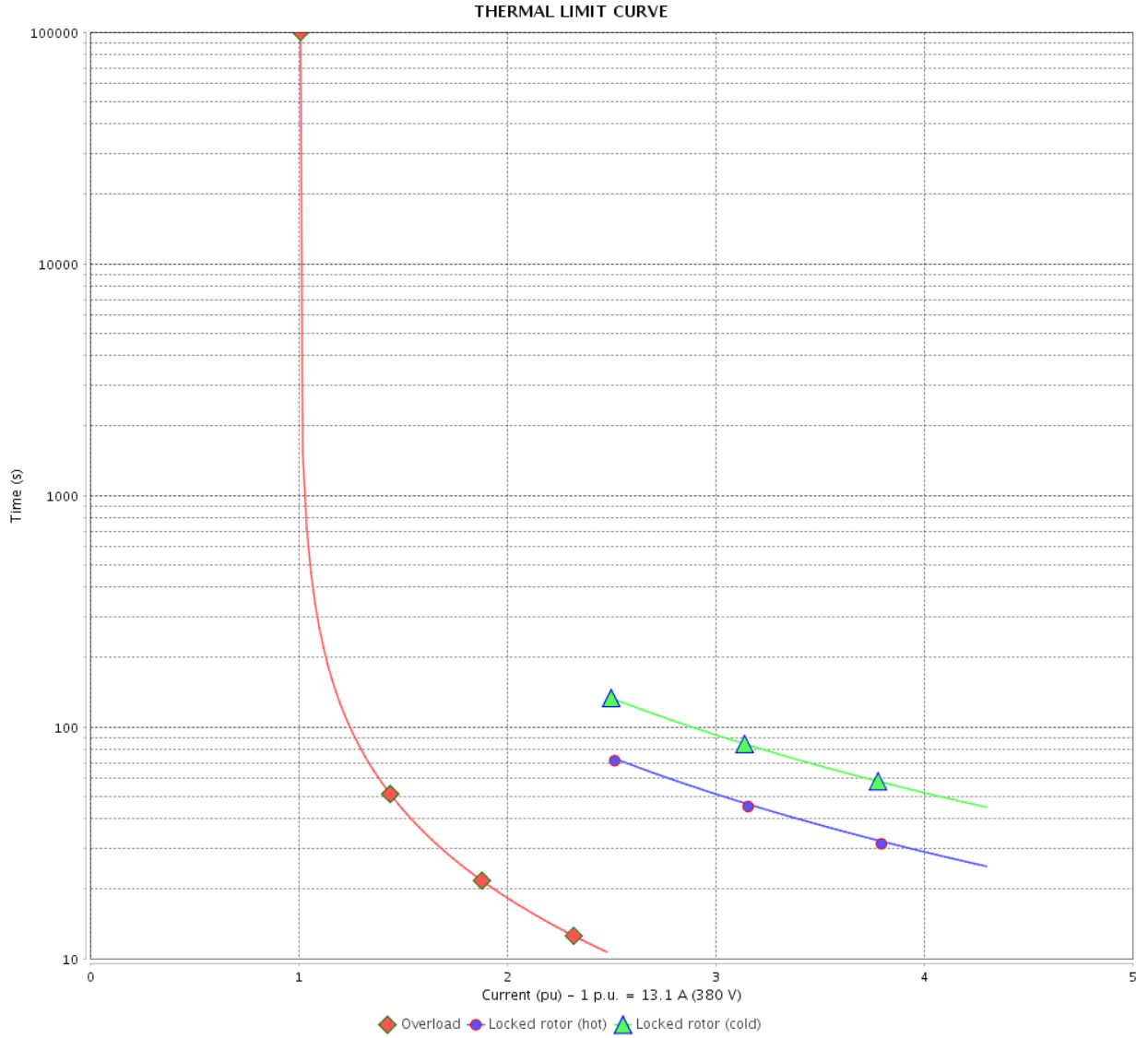
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Locked rotor torque	: 170 %	Service factor	: 1.15
Breakdown torque	: 210 %	Temperature rise	: 105 K
Rated speed	: 725 rpm	Design	: B

Heating constant

Cooling constant

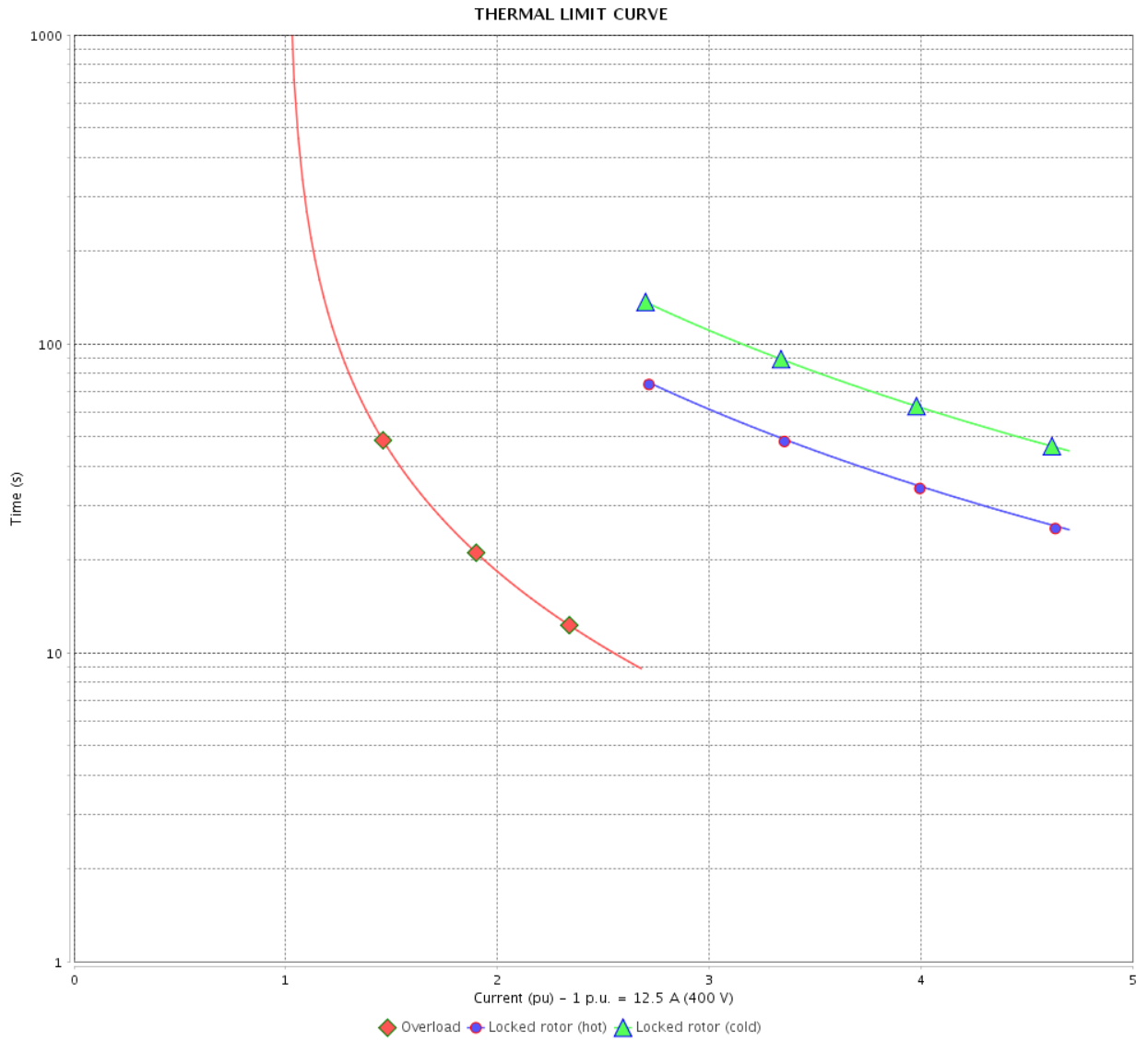
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	12/04/2022		26 / 36	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page		Revision
Checked by		27 / 36		
Date		12/04/2022		

THERMAL LIMIT CURVE



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase
Product code : 11448468
Catalog # : 00709ST3QIE256T-W22

Performance : 415 V 50 Hz 8P IE2

Rated current	: 12.4 A	Moment of inertia (J)	: 4.43 sq.ft.lb
LRC	: 5.0	Duty cycle	: Cont.(S1)
Rated torque	: 54.0 ft.lb	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.15
Breakdown torque	: 229 %	Temperature rise	: 105 K
Rated speed	: 730 rpm	Design	: B

Heating constant

Cooling constant

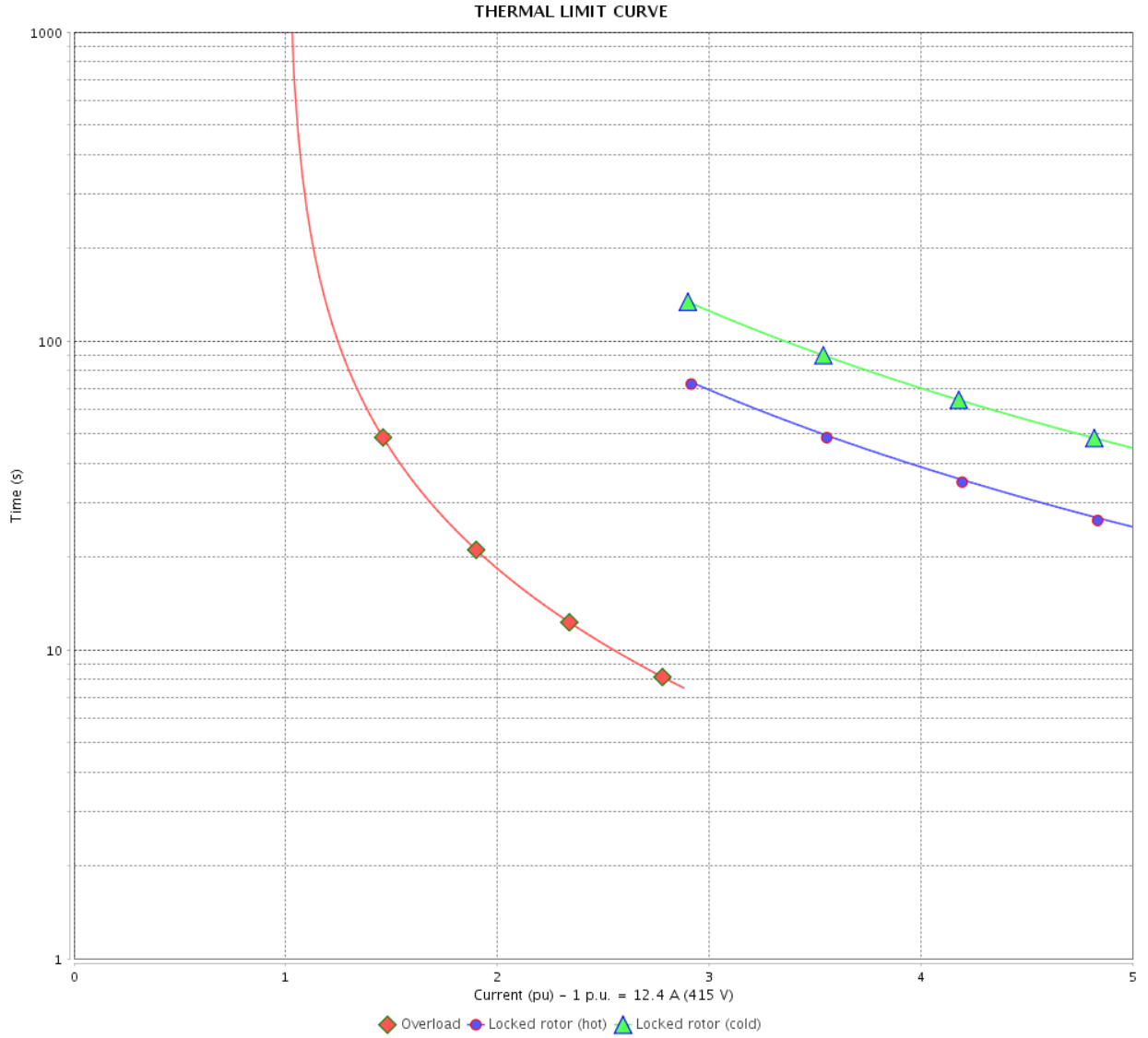
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Performed by				
Checked by			Page	Revision
Date	12/04/2022		28 / 36	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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Performed by		Page		Revision
Checked by		29 / 36		
Date		12/04/2022		

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



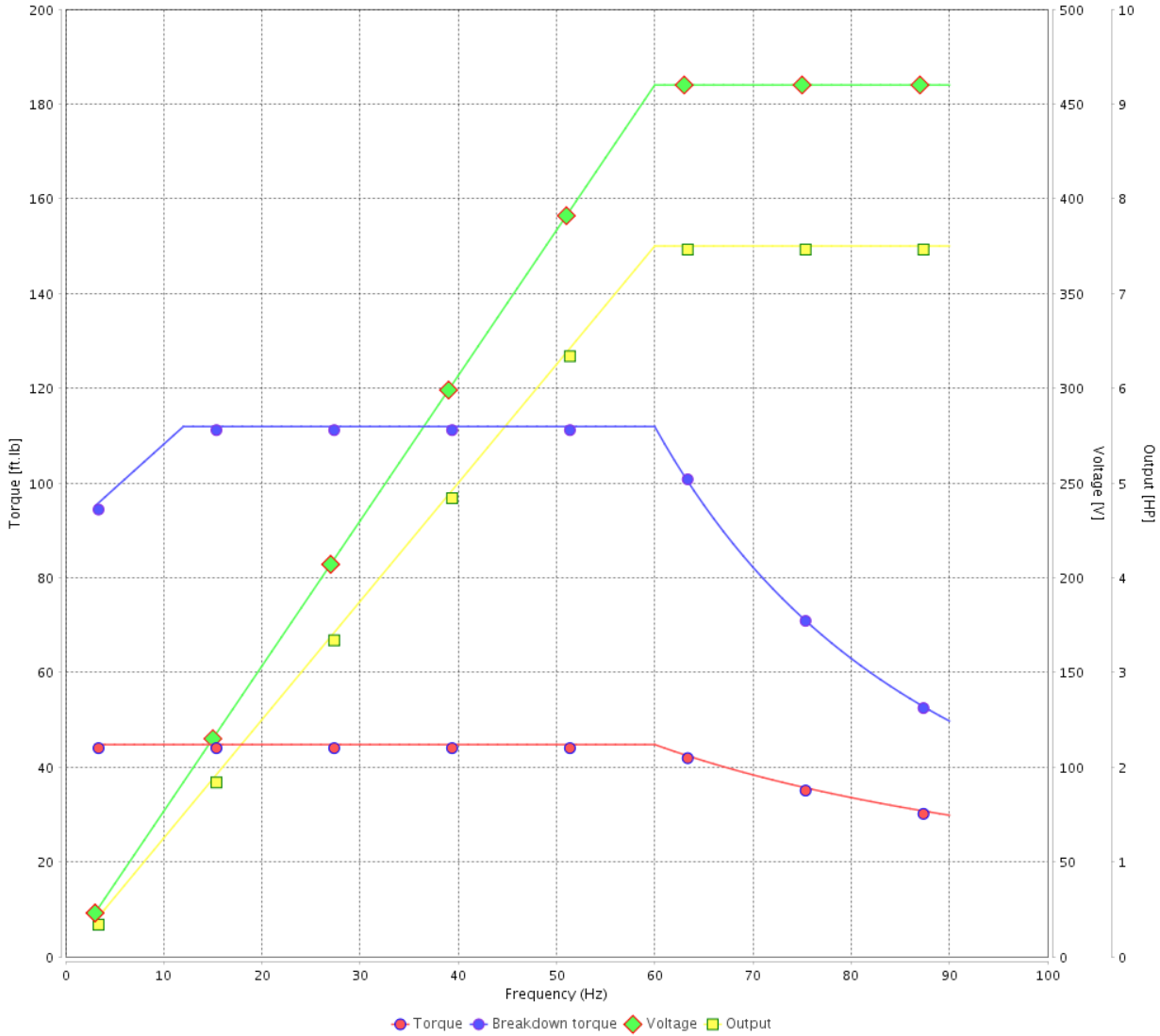
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11448468

Catalog # : 00709ST3QIE256T-W22

VFD OPERATION CURVE



Performance : 460 V 60 Hz 8P

Rated current : 11.1 A
 LRC : 5.3
 Rated torque : 44.8 ft.lb
 Locked rotor torque : 200 %
 Breakdown torque : 250 %
 Rated speed : 880 rpm

Moment of inertia (J) : 4.43 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

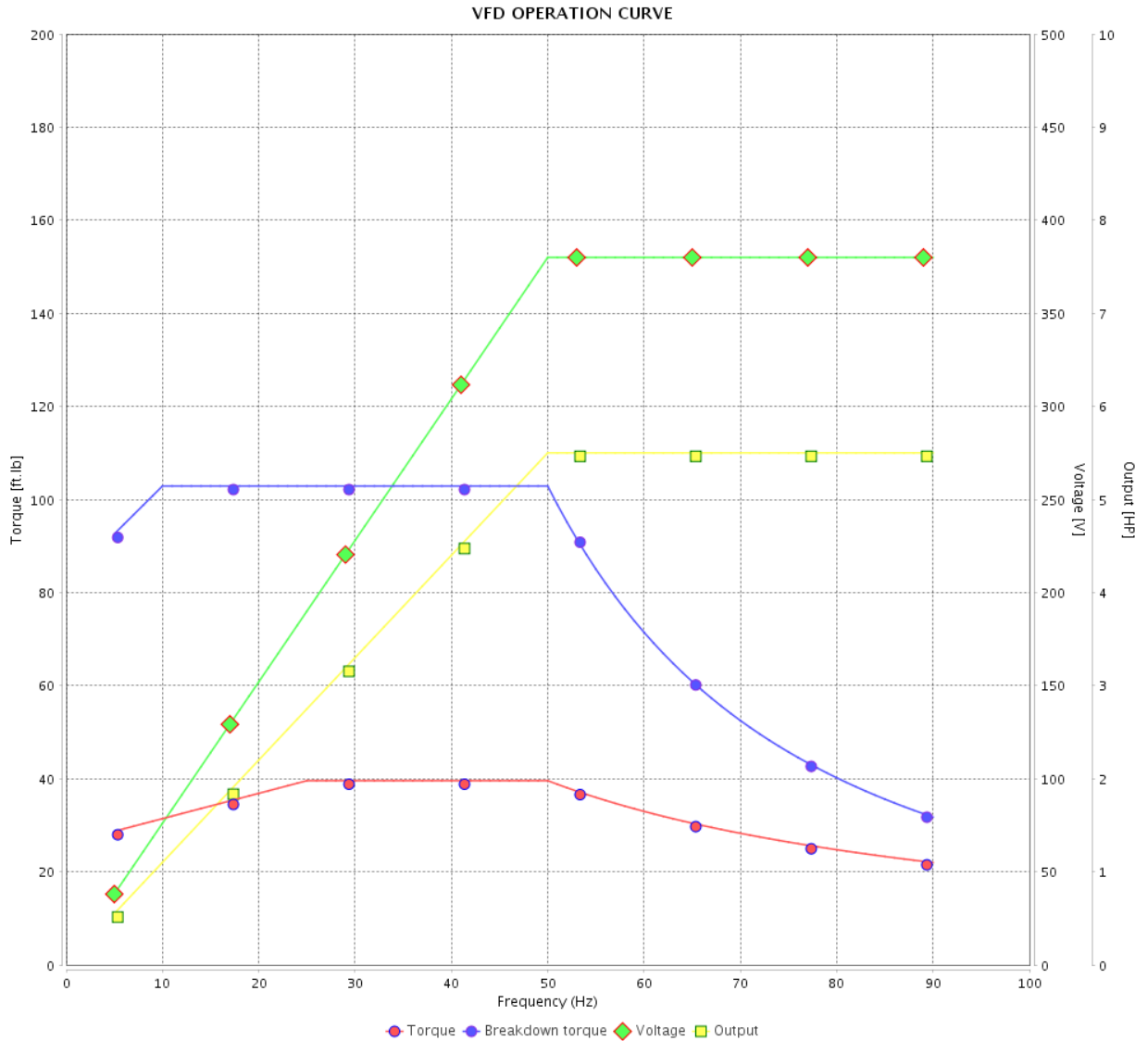


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11448468

Catalog # : 00709ST3QIE256T-W22



Performance : 380 V 50 Hz 8P IE3

Rated current : 10.4 A
 LRC : 5.4
 Rated torque : 39.6 ft.lb
 Locked rotor torque : 210 %
 Breakdown torque : 260 %
 Rated speed : 730 rpm

Moment of inertia (J) : 4.43 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		Revision
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Date	12/04/2022			

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



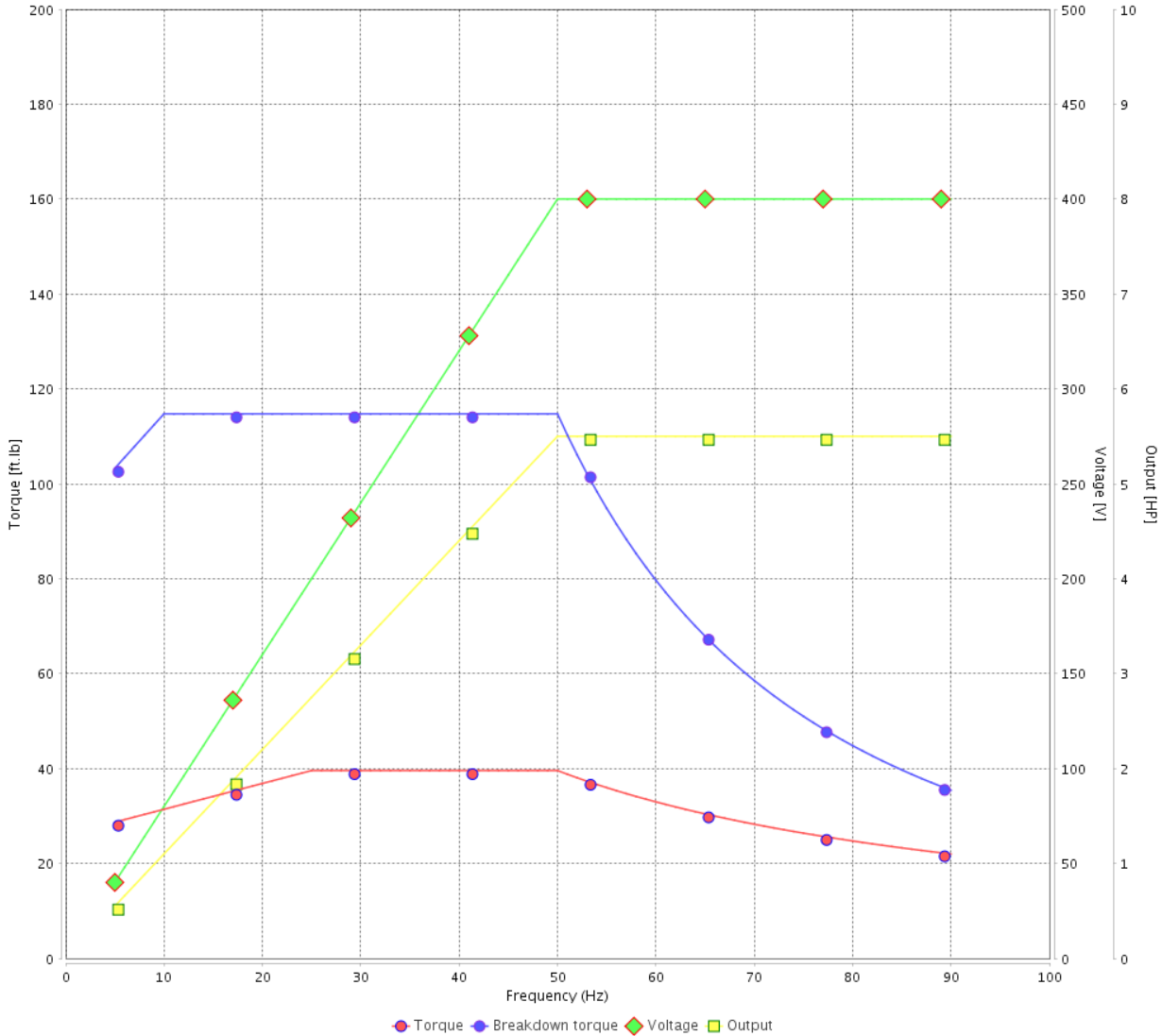
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11448468

Catalog # : 00709ST3QIE256T-W22

VFD OPERATION CURVE



Performance : 400 V 50 Hz 8P IE3

Rated current : 10.5 A
 LRC : 5.6
 Rated torque : 39.6 ft.lb
 Locked rotor torque : 229 %
 Breakdown torque : 290 %
 Rated speed : 730 rpm

Moment of inertia (J) : 4.43 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				
Date				

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

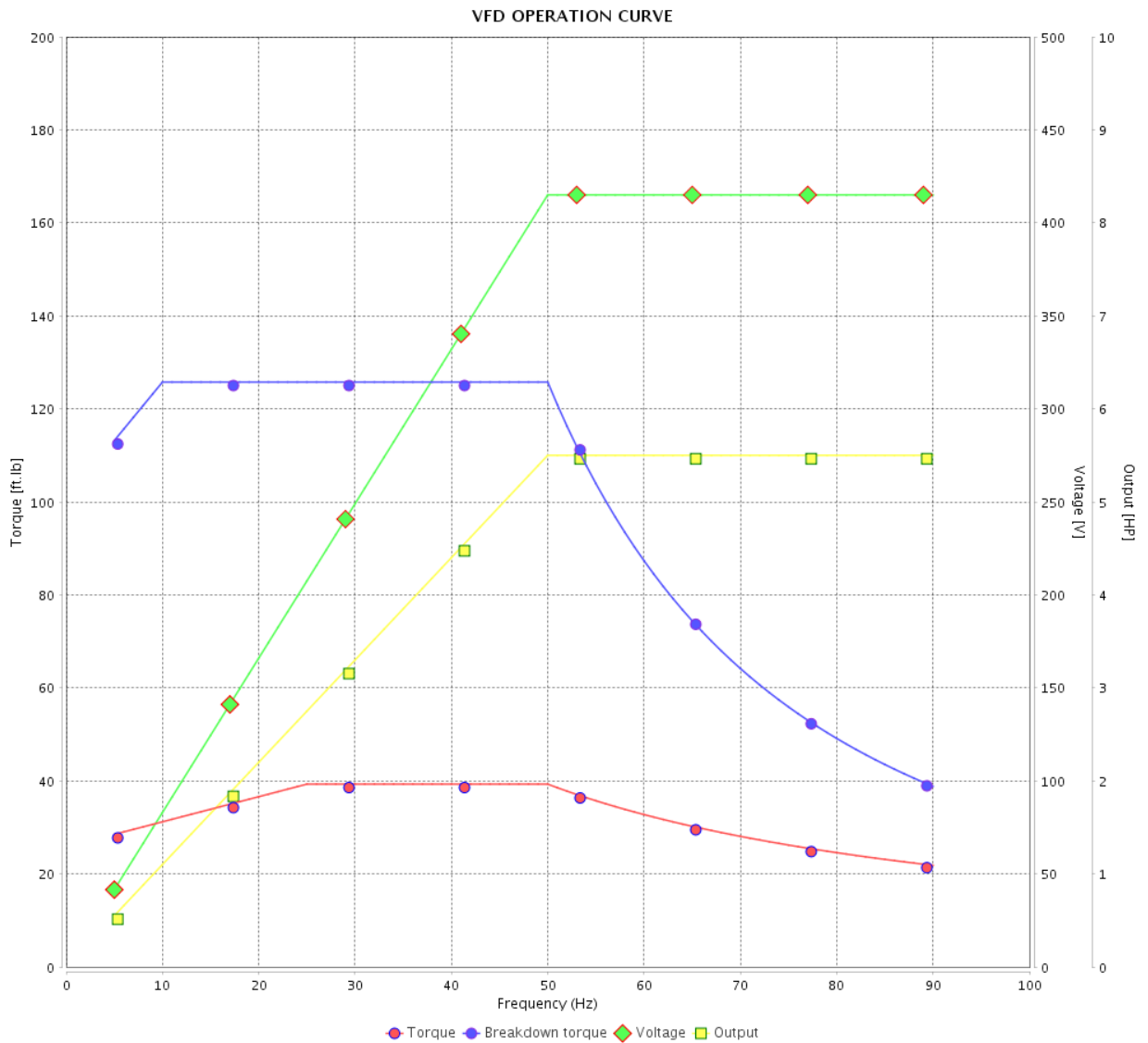


Customer : _____

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11448468

Catalog # : 00709ST3QIE256T-W22



Performance : 415 V 50 Hz 8P IE3

Rated current : 10.4 A
 LRC : 6.0
 Rated torque : 39.3 ft.lb
 Locked rotor torque : 260 %
 Breakdown torque : 320 %
 Rated speed : 735 rpm

Moment of inertia (J) : 4.43 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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				Revision

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



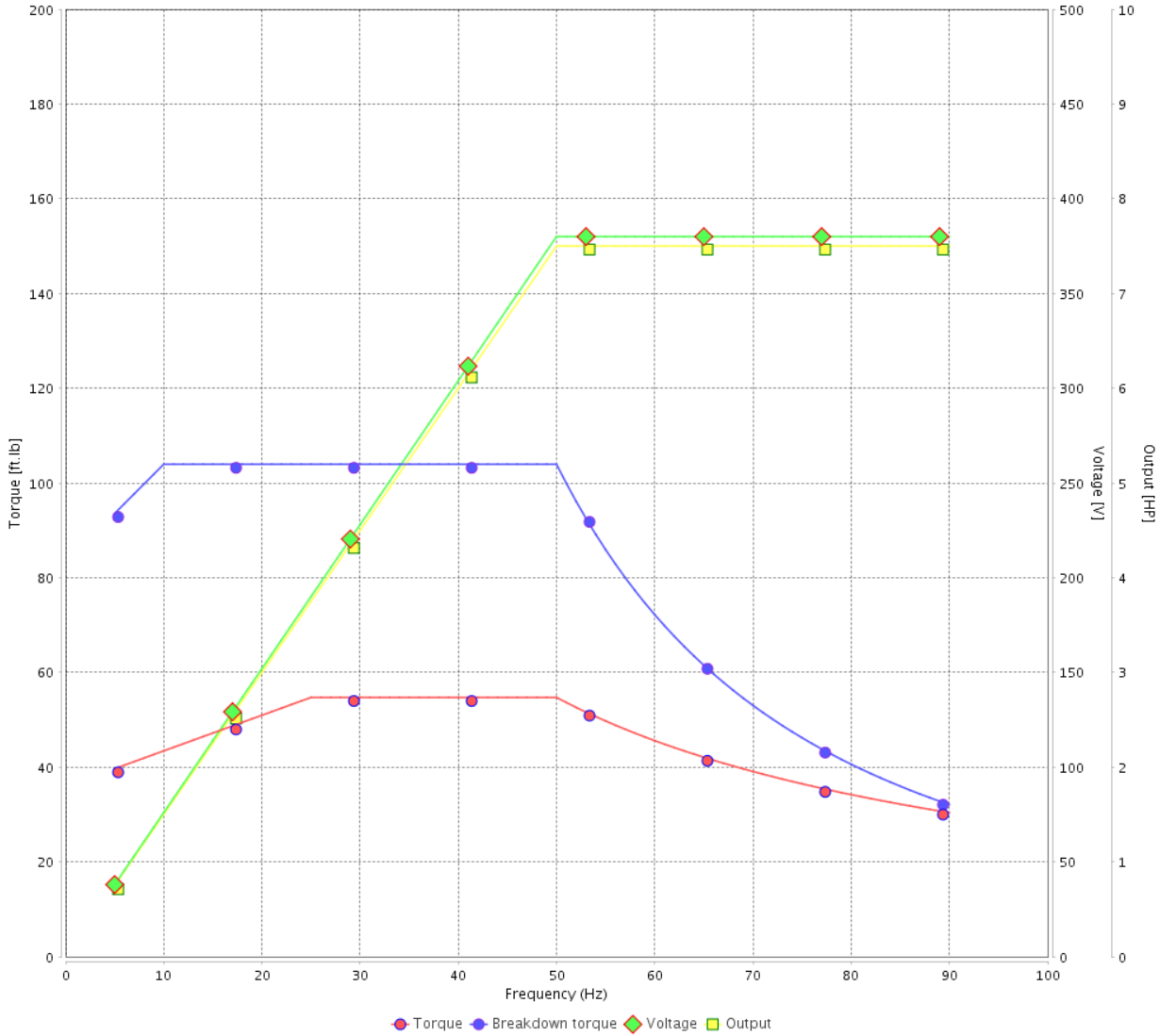
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11448468

Catalog # : 00709ST3QIE256T-W22

VFD OPERATION CURVE



Performance : 380 V 50 Hz 8P IE2

Rated current : 13.1 A
 LRC : 4.3
 Rated torque : 54.7 ft.lb
 Locked rotor torque : 150 %
 Breakdown torque : 190 %
 Rated speed : 720 rpm

Moment of inertia (J) : 4.43 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 34 / 36	Revision
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

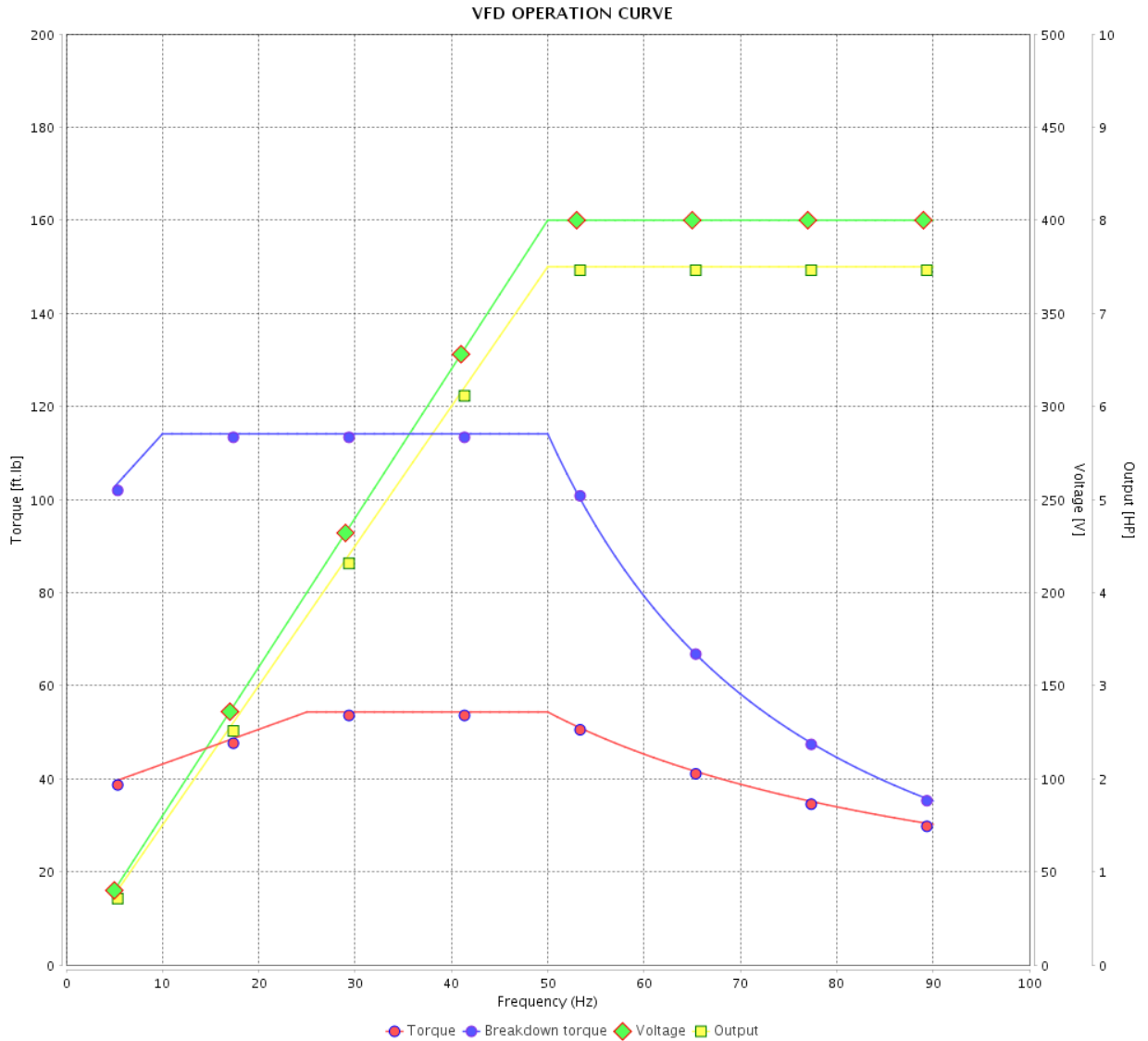


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11448468

Catalog # : 00709ST3QIE256T-W22



Performance : 400 V 50 Hz 8P IE2

Rated current : 12.5 A
 LRC : 4.7
 Rated torque : 54.3 ft.lb
 Locked rotor torque : 170 %
 Breakdown torque : 210 %
 Rated speed : 725 rpm

Moment of inertia (J) : 4.43 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 105 K
 Design : B

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page		Revision
Checked by		35 / 36		
Date	12/04/2022			

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



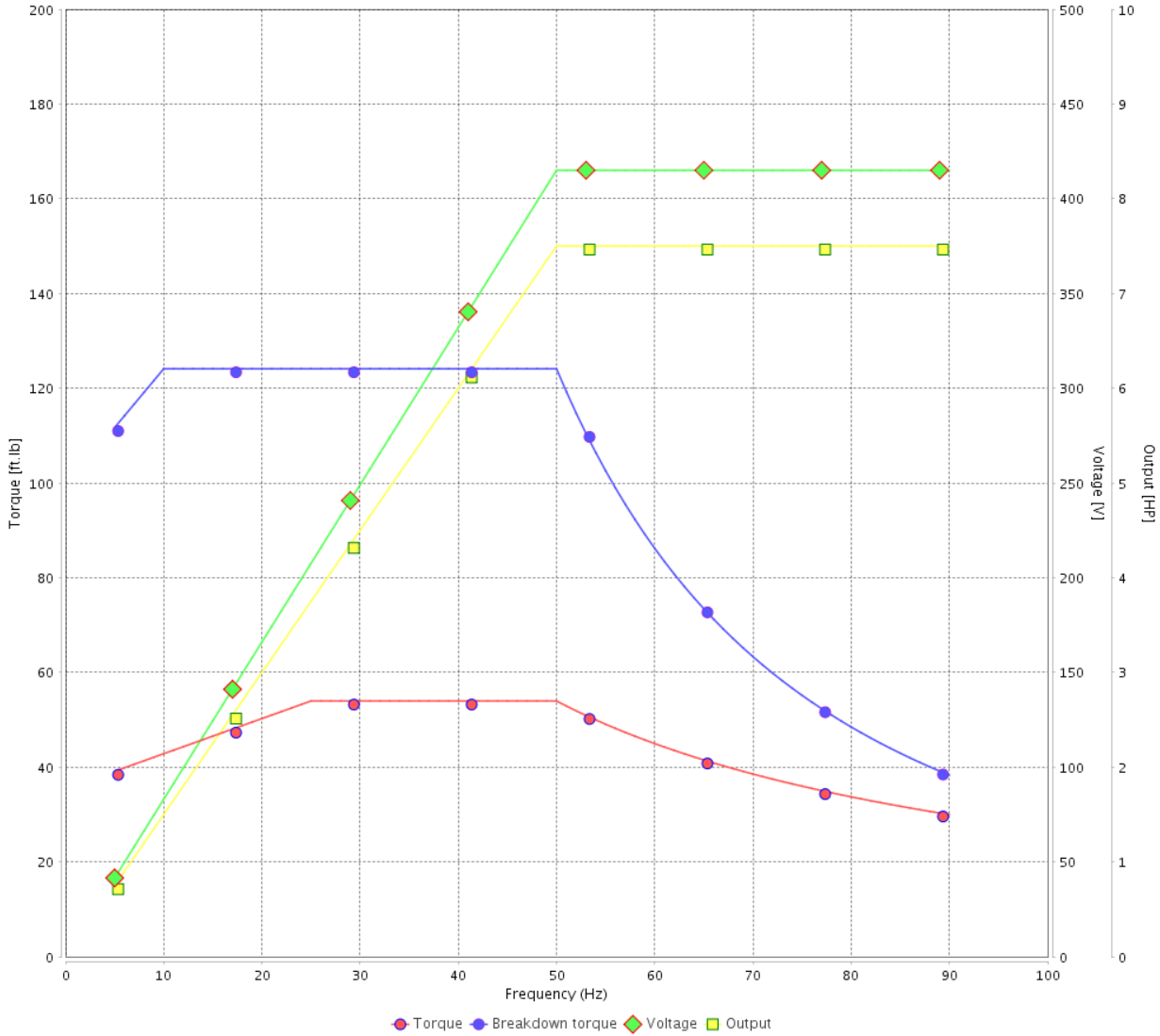
Customer : _____

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11448468

Catalog # : 00709ST3QIE256T-W22

VFD OPERATION CURVE



Performance : 415 V 50 Hz 8P IE2

Rated current : 12.4 A
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 Rated torque : 54.0 ft.lb
 Locked rotor torque : 190 %
 Breakdown torque : 229 %
 Rated speed : 730 rpm

Moment of inertia (J) : 4.43 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 105 K
 Design : B

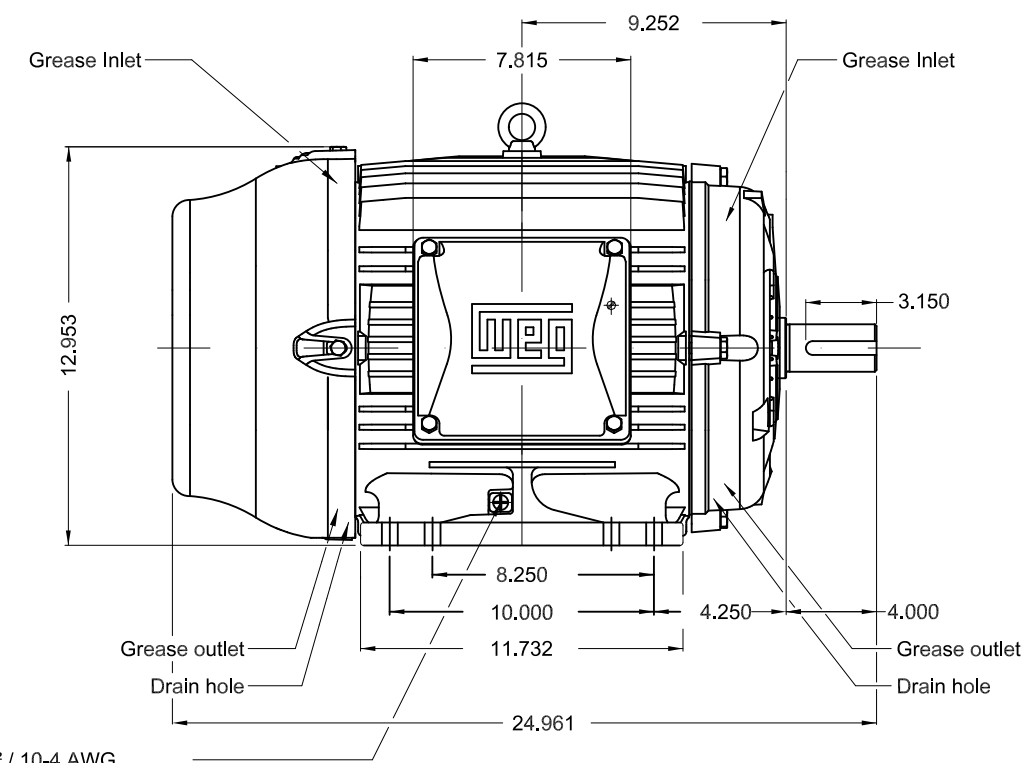
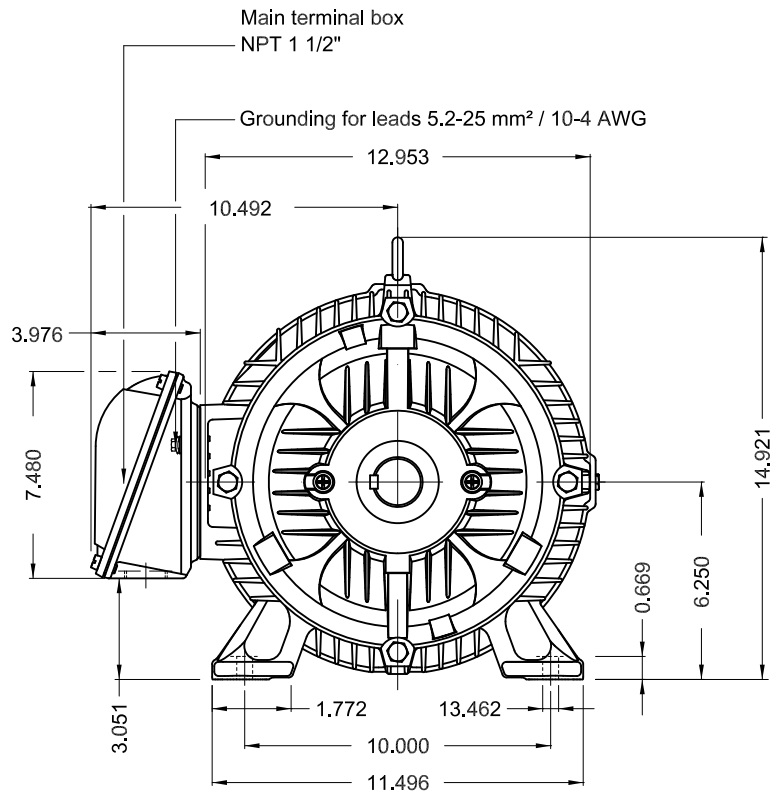
Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 36 / 36	Revision
Checked by				
Date	12/04/2022			

1 2 3 4 5 6

A

B

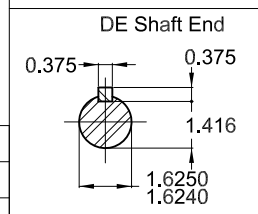
C



D

E

Color RAL 5009
 Painting plan 202E
 Mounting B3R(D)



7.5 HP 08 Poles 60 Hz A

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	PIRWBUSER	THREE PH. MOTOR IEEE 841 W22 PREM. EFF. FRAME 254/6T IP55 TEFC					
CHECKED							
RELEASED							
REL DT.	WMO	Jaragua do Sul	Product Engineering	SHEET	1 / 1		

PREVIEW
 WDD



Dimensions in inches XME A3



NEMA
Premium
W22



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 - T4
For use on PWM: Gr. A, B, C, D and F,
VT 1000:1, CT 20:1, 1.00SF - T3A

MODEL 00709ST3QIE256T-W22



Inverter Duty Motor
Severe Duty

MADE IN BRAZIL
11448468

PH3 60Hz Fr. 254/6T 1000m.a.s.l. IP55 TEFC 302lb

V 460

A 11.1

HP 7.5

kW 5.5

SF 1.25

SFA 13.9

RPM 880

PF 0.71

AMB 40°C

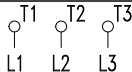
INS cl. F DT80K

NEMA NOM EFF 87.5%

DUTY CONT.

DES B Code G

GUARANT. EFF 85.5%



460V



→ 6309-C3 (13g) 45BC03X30

→ 6209-C3 (9g) 45BC02X30



MOBIL POLYREX EM (20000h)

