

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :							
Product line	: NEMA Premium Efficiency Three-Phase	Product code :	11355727				
		Catalog # :	04009ET3E365T-W22				
Frame	: 364/5T	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	: 868 lb				
Protection degree	: IP55	Moment of inertia (J)	: 29.0 sq.ft.lb				
Design	: B						
Output [HP]	40	30	30	30	40	40	40
Poles	8	8	8	8	8	8	8
Frequency [Hz]	60	50	50	50	50	50	50
Rated voltage [V]	230/460	380	400	415	380	400	415
Rated current [A]	102/50.9	47.8	46.3	45.7	62.9	60.0	58.1
L. R. Amperes [A]	601/300	292	310	324	283	300	320
LRC [A]	5.9x(Code G)	6.1x(Code H)	6.7x(Code J)	7.1x(Code J)	4.5x(Code E)	5.0x(Code F)	5.5x(Code G)
No load current [A]	43.0/21.5	20.7	22.2	23.4	20.7	22.2	23.4
Rated speed [RPM]	882	735	736	737	725	727	730
Slip [%]	2.00	2.00	1.87	1.73	3.33	3.07	2.67
Rated torque [ft.lb]	238	214	214	214	290	289	288
Locked rotor torque [%]	170	600	210	229	140	160	170
Breakdown torque [%]	210	240	270	300	180	200	210
Service factor	1.25	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	46s (cold)	81s (cold)	52s (cold)	52s (cold)	32s (cold)	32s (cold)	32s (cold)
	26s (hot)	45s (hot)	29s (hot)	29s (hot)	18s (hot)	18s (hot)	18s (hot)
Noise level ²	60.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)
Efficiency (%)	25%						
	50%	92.4	91.5	91.5	90.9	91.7	91.7
	75%	93.0	91.6	91.9	91.8	91.0	91.7
	100%	92.4	90.9	91.5	91.7	89.5	90.2
Power Factor	25%						
	50%	0.65	0.60	0.55	0.52	0.70	0.66
	75%	0.75	0.71	0.68	0.65	0.78	0.76
	100%	0.80	0.77	0.75	0.73	0.81	0.80
Bearing type		<u>Drive end</u>	<u>Non drive end</u>	Foundation loads			
		: 6314 C3	: 6314 C3	Max. traction	: 1634 lb		
	Sealing	: WSeal	: WSeal	Max. compression	: 2503 lb		
	Lubrication interval	: 20000 h	: 20000 h				
	Lubricant amount	: 27 g	: 27 g				
Lubricant type	: Mobil Polyrex EM						
Notes							
USABLE @208V 111A SF 1.10 SFA 122A							
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



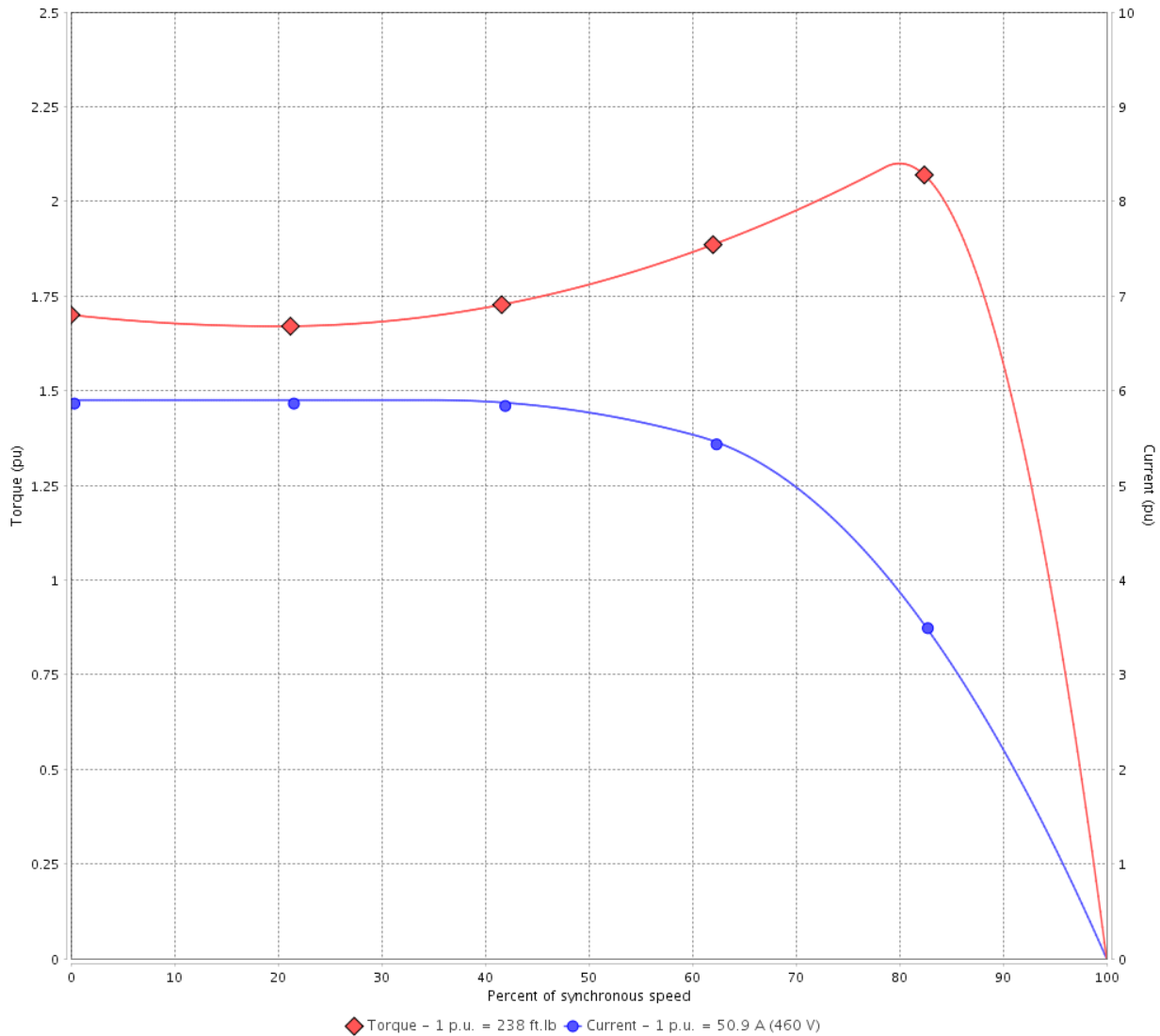
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11355727

Catalog # : 04009ET3E365T-W22

TORQUE AND CURRENT VS SPEED CURVE



Performance : 230/460 V 60 Hz 8P

Rated current	: 102/50.9 A	Moment of inertia (J)	: 29.0 sq.ft.lb
LRC	: 5.9	Duty cycle	: Cont.(S1)
Rated torque	: 238 ft.lb	Insulation class	: F
Locked rotor torque	: 170 %	Service factor	: 1.25
Breakdown torque	: 210 %	Temperature rise	: 80 K
Rated speed	: 882 rpm	Design	: B

Locked rotor time : 46s (cold) 26s (hot)

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TORQUE AND CURRENT VS SPEED CURVE



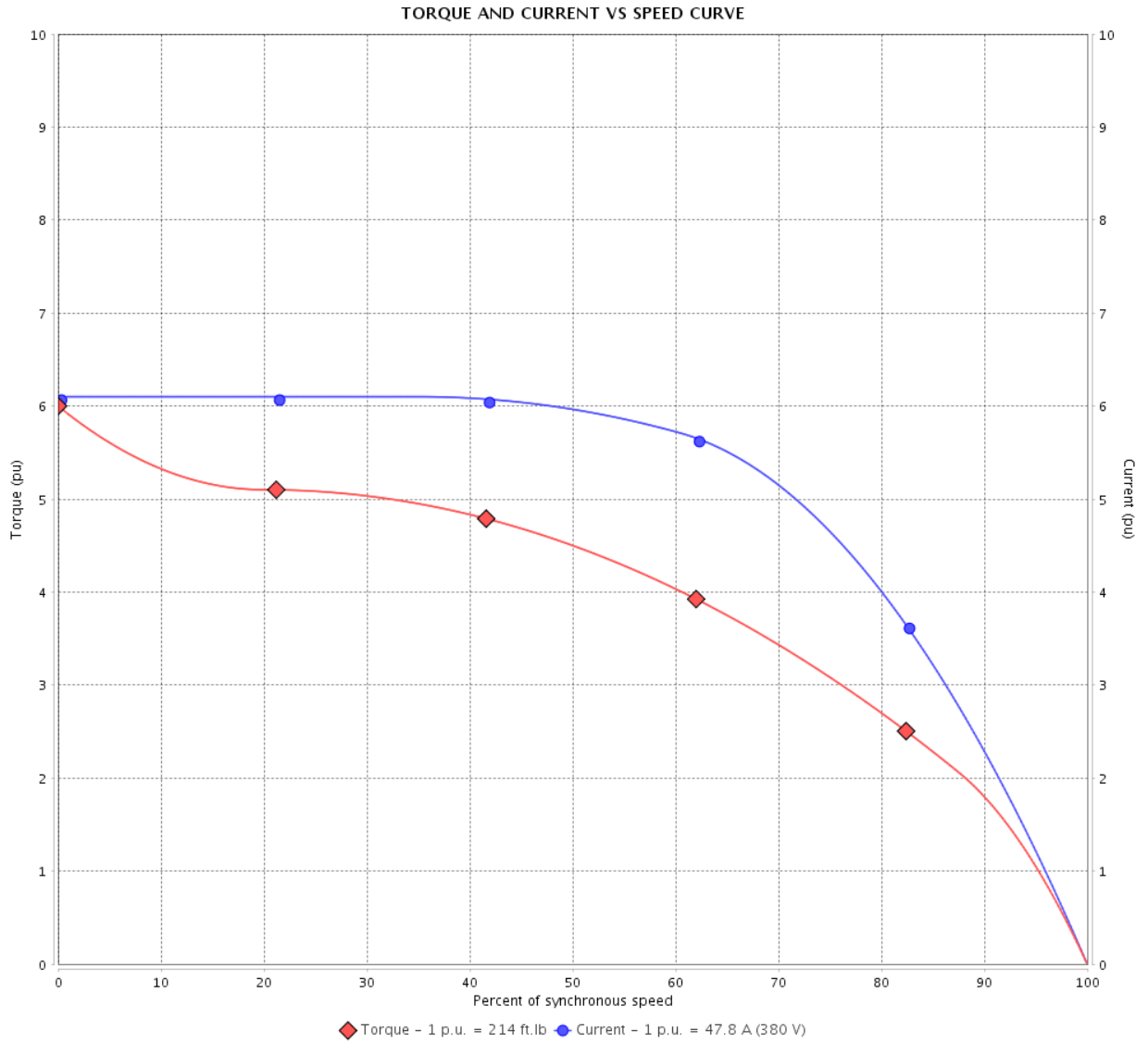
Three Phase Induction Motor - Squirrel Cage

Customer :

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Product code : 11355727

Catalog # : 04009ET3E365T-W22



Performance : 380 V 50 Hz 8P IE3

Rated current	: 47.8 A	Moment of inertia (J)	: 29.0 sq.ft.lb
LRC	: 6.1	Duty cycle	: Cont.(S1)
Rated torque	: 214 ft.lb	Insulation class	: F
Locked rotor torque	: 600 %	Service factor	: 1.00
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 735 rpm	Design	: B

Locked rotor time : 81s (cold) 45s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

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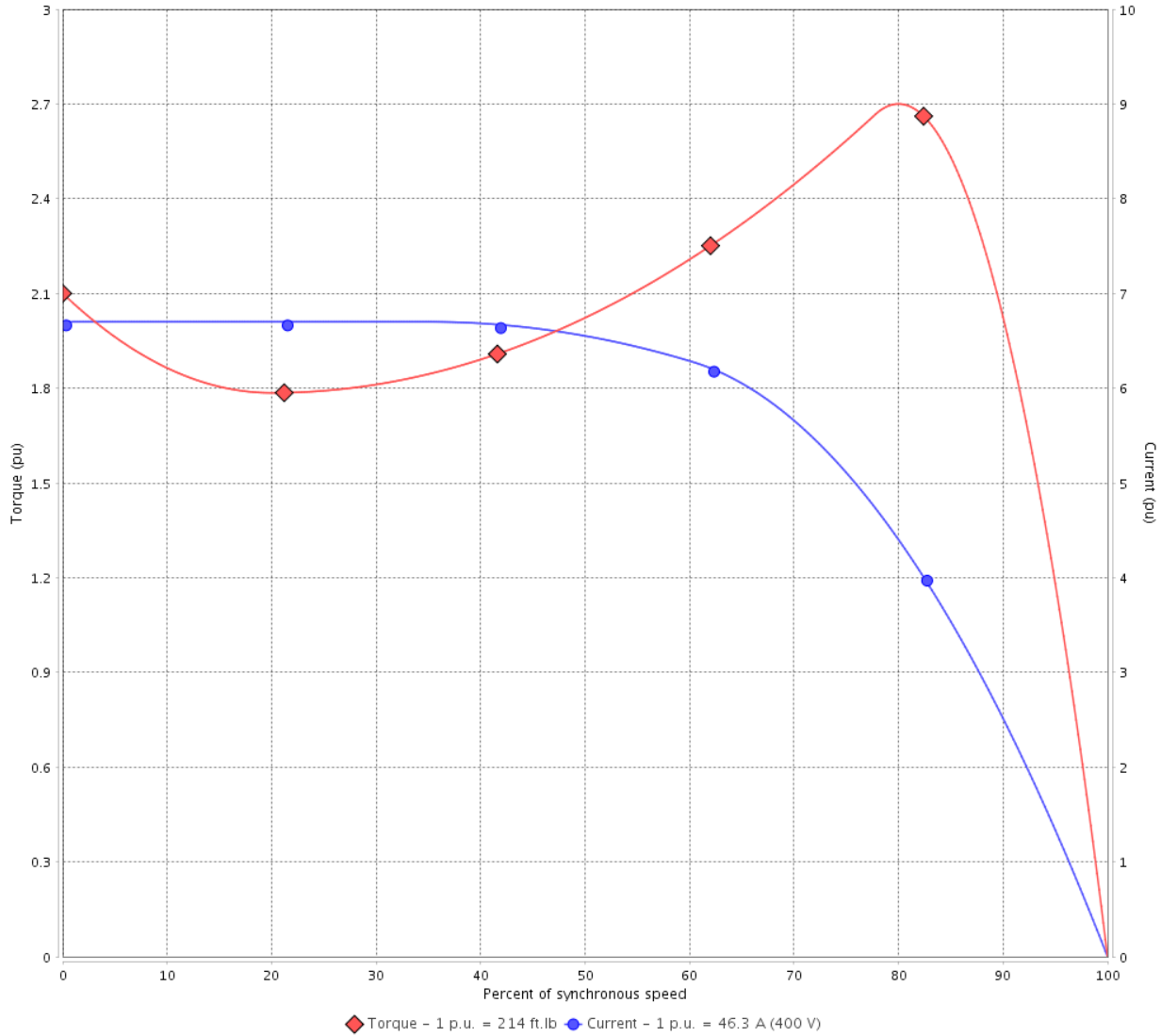
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TORQUE AND CURRENT VS SPEED CURVE



Performance : 400 V 50 Hz 8P IE3

Rated current	: 46.3 A	Moment of inertia (J)	: 29.0 sq.ft.lb
LRC	: 6.7	Duty cycle	: Cont.(S1)
Rated torque	: 214 ft.lb	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.00
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 736 rpm	Design	: B

Locked rotor time : 52s (cold) 29s (hot)

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TORQUE AND CURRENT VS SPEED CURVE



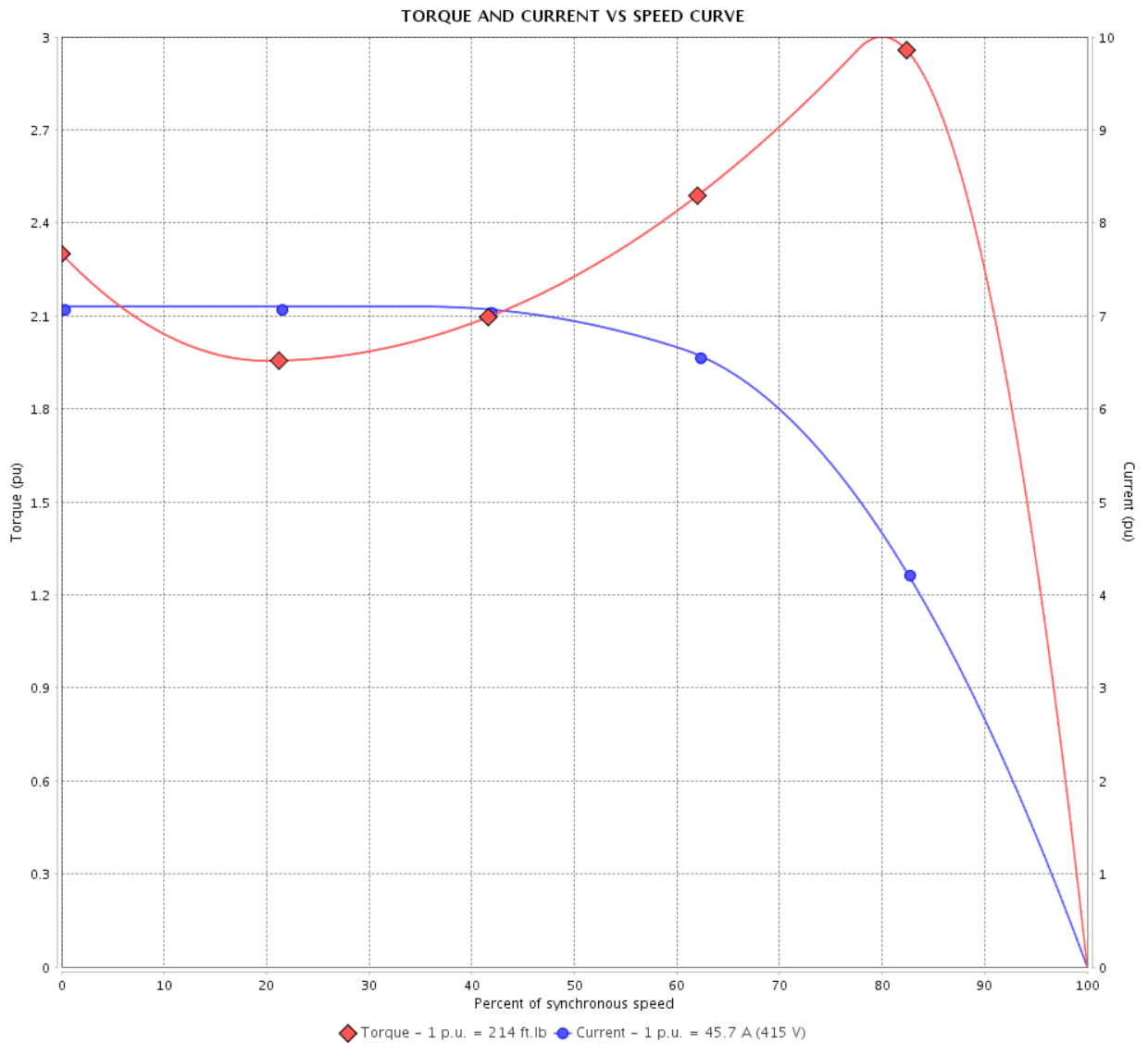
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Catalog # : 04009ET3E365T-W22



Performance : 415 V 50 Hz 8P IE3

Rated current	: 45.7 A	Moment of inertia (J)	: 29.0 sq.ft.lb
LRC	: 7.1	Duty cycle	: Cont.(S1)
Rated torque	: 214 ft.lb	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.00
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 737 rpm	Design	: B

Locked rotor time : 52s (cold) 29s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

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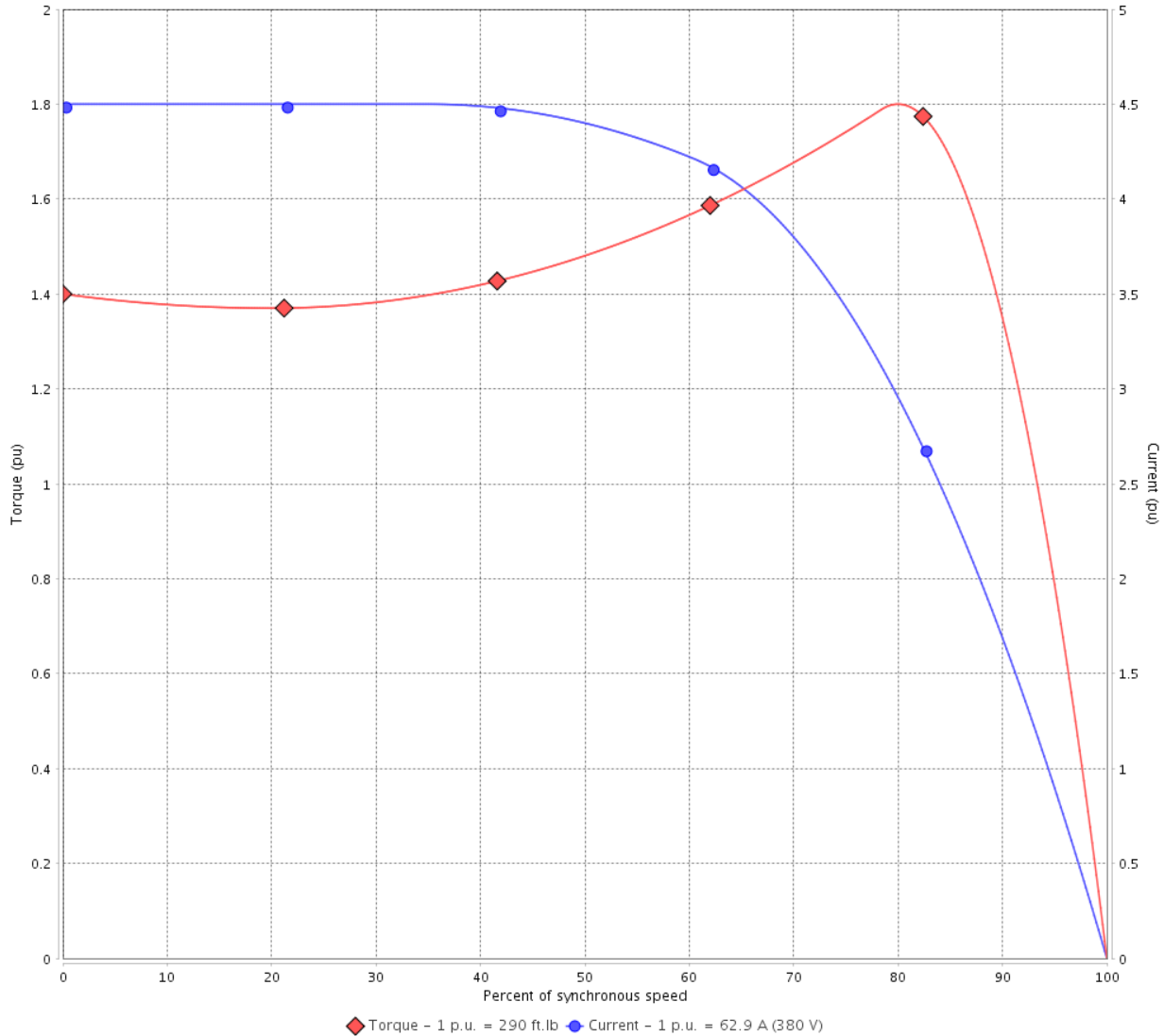
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TORQUE AND CURRENT VS SPEED CURVE



Performance : 380 V 50 Hz 8P IE1

Rated current	: 62.9 A	Moment of inertia (J)	: 29.0 sq.ft.lb
LRC	: 4.5	Duty cycle	: Cont.(S1)
Rated torque	: 290 ft.lb	Insulation class	: F
Locked rotor torque	: 140 %	Service factor	: 1.00
Breakdown torque	: 180 %	Temperature rise	: 105 K
Rated speed	: 725 rpm	Design	: B

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

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TORQUE AND CURRENT VS SPEED CURVE



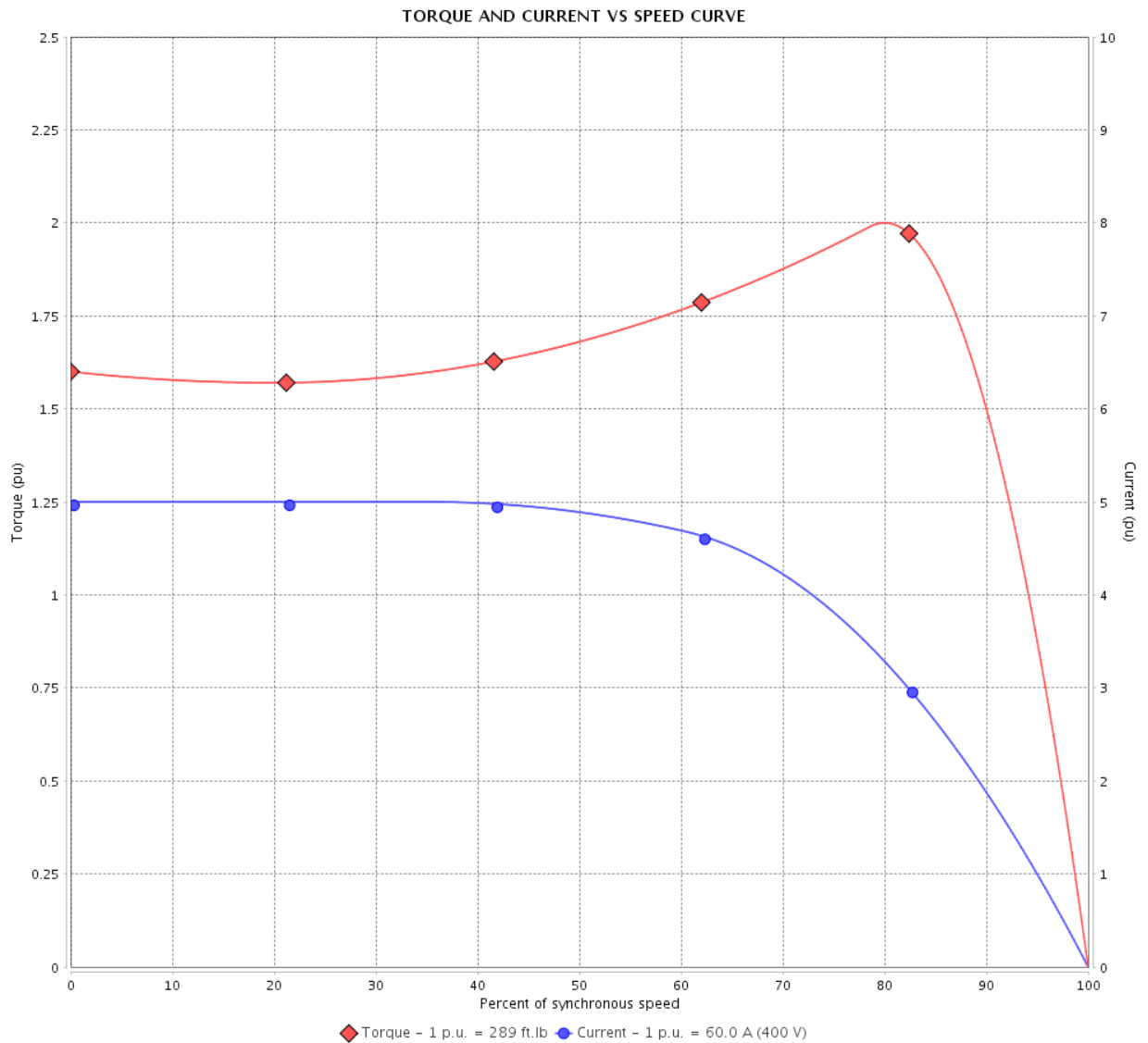
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Product code : 11355727

Catalog # : 04009ET3E365T-W22



Performance : 400 V 50 Hz 8P IE2

Rated current	: 60.0 A	Moment of inertia (J)	: 29.0 sq.ft.lb
LRC	: 5.0	Duty cycle	: Cont.(S1)
Rated torque	: 289 ft.lb	Insulation class	: F
Locked rotor torque	: 160 %	Service factor	: 1.00
Breakdown torque	: 200 %	Temperature rise	: 105 K
Rated speed	: 727 rpm	Design	: B

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

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



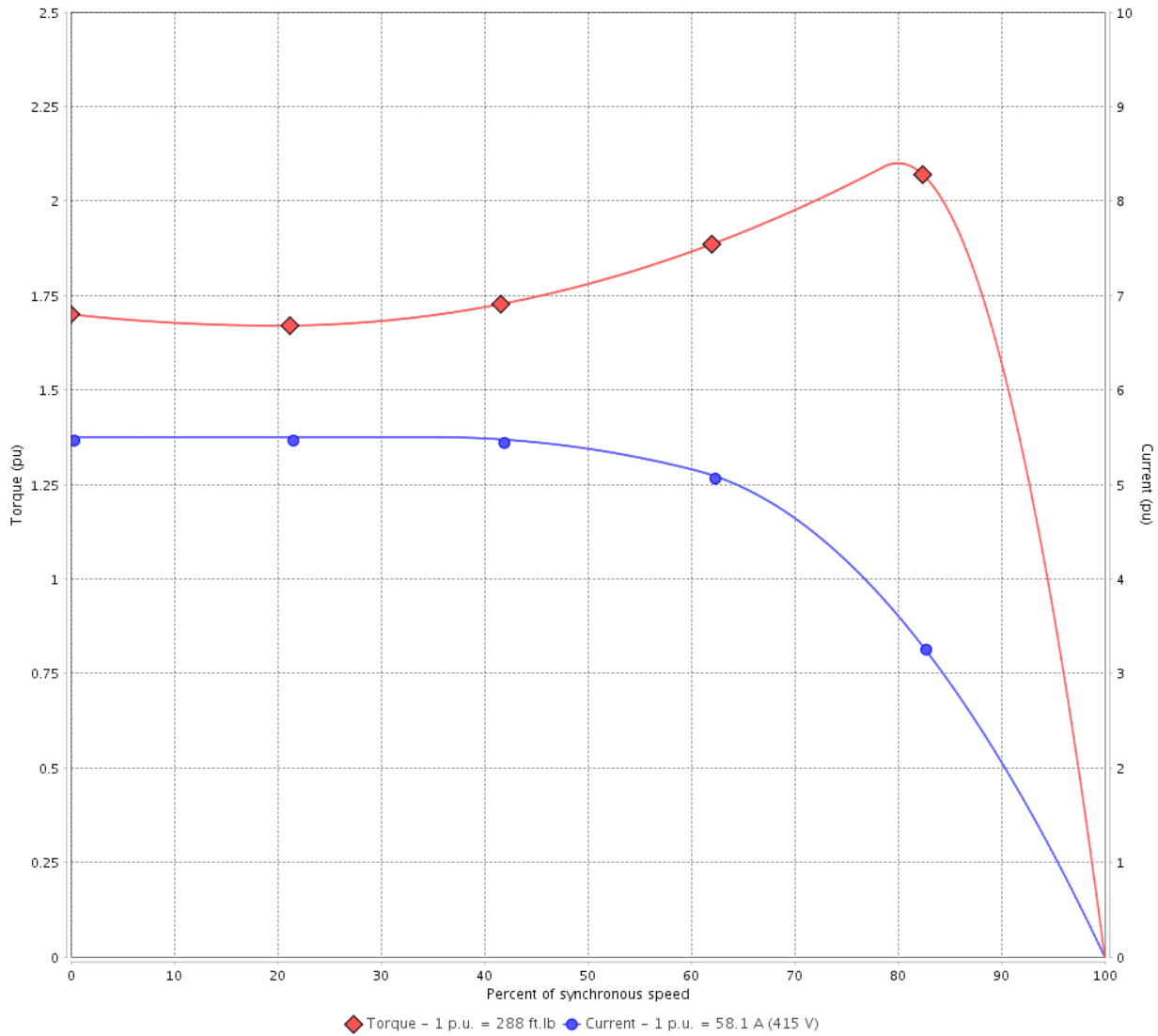
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Catalog # : 04009ET3E365T-W22

TORQUE AND CURRENT VS SPEED CURVE



Performance : 415 V 50 Hz 8P IE2

Rated current	: 58.1 A	Moment of inertia (J)	: 29.0 sq.ft.lb
LRC	: 5.5	Duty cycle	: Cont.(S1)
Rated torque	: 288 ft.lb	Insulation class	: F
Locked rotor torque	: 170 %	Service factor	: 1.00
Breakdown torque	: 210 %	Temperature rise	: 105 K
Rated speed	: 730 rpm	Design	: B

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

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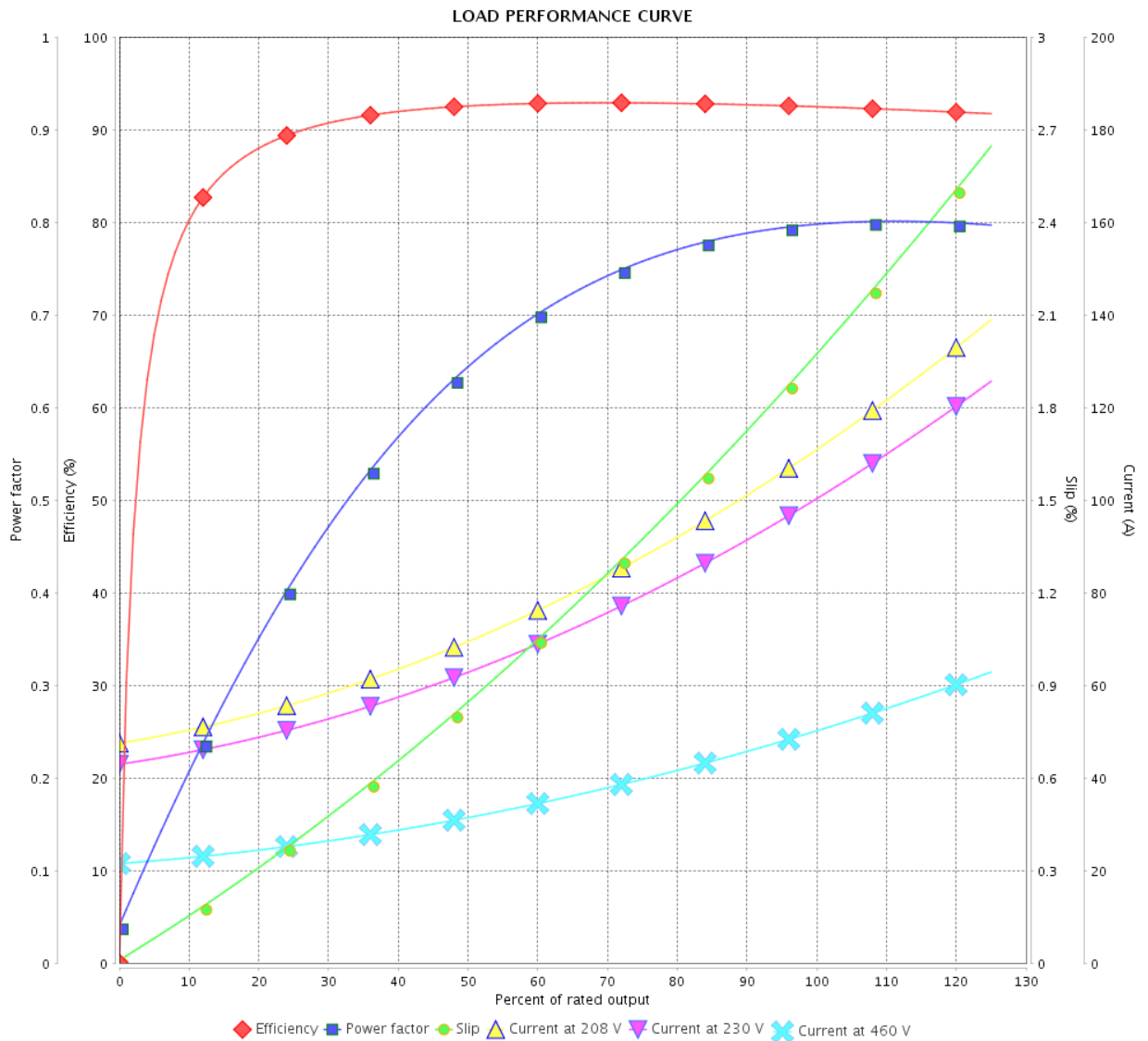


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Product code : 11355727

Catalog # : 04009ET3E365T-W22



Performance : 230/460 V 60 Hz 8P

Rated current : 102/50.9 A
 LRC : 5.9
 Rated torque : 238 ft.lb
 Locked rotor torque : 170 %
 Breakdown torque : 210 %
 Rated speed : 882 rpm

Moment of inertia (J) : 29.0 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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Three Phase Induction Motor - Squirrel Cage



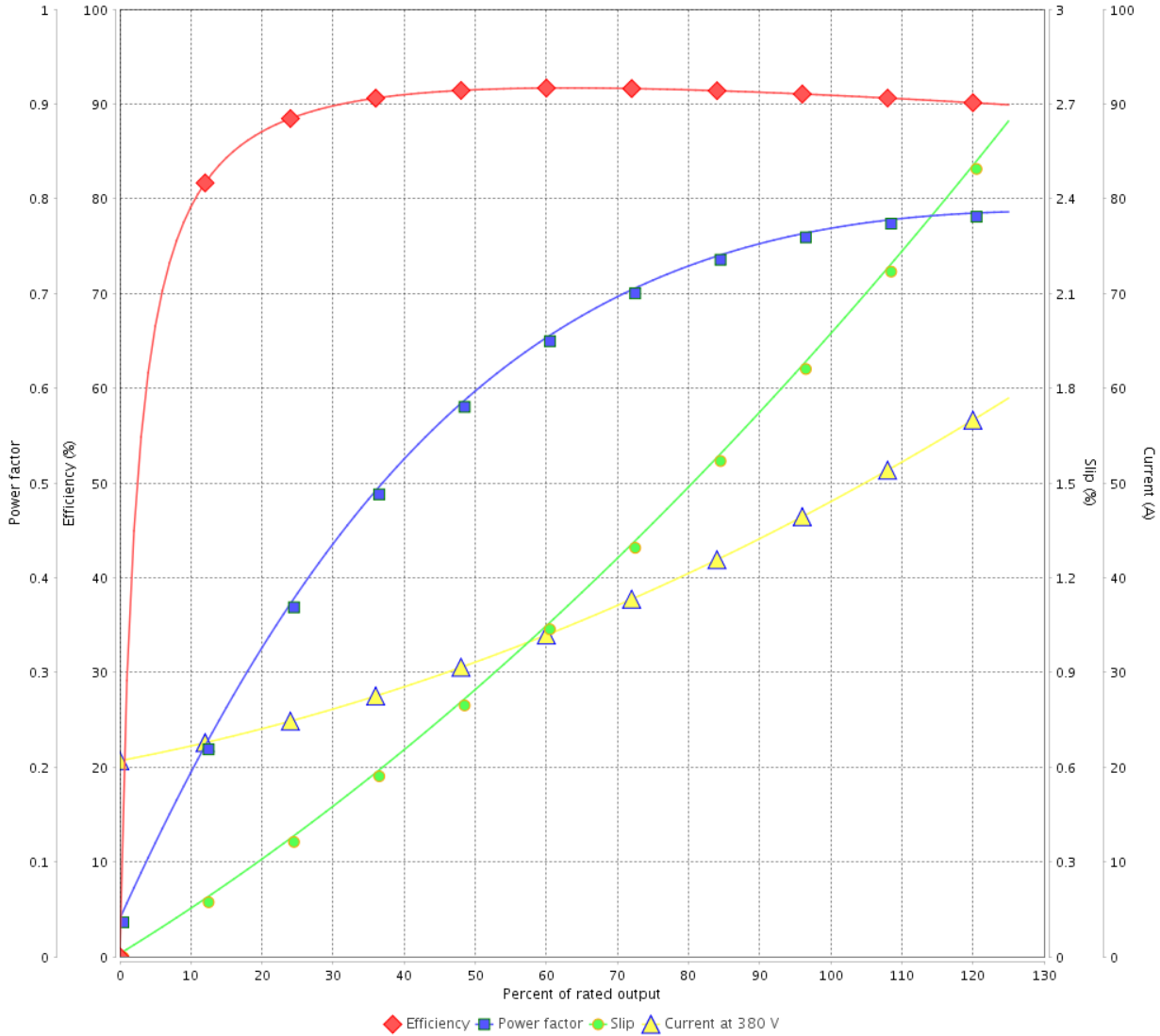
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Performance : 380 V 50 Hz 8P IE3

Rated current : 47.8 A
 LRC : 6.1
 Rated torque : 214 ft.lb
 Locked rotor torque : 600 %
 Breakdown torque : 240 %
 Rated speed : 735 rpm

Moment of inertia (J) : 29.0 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

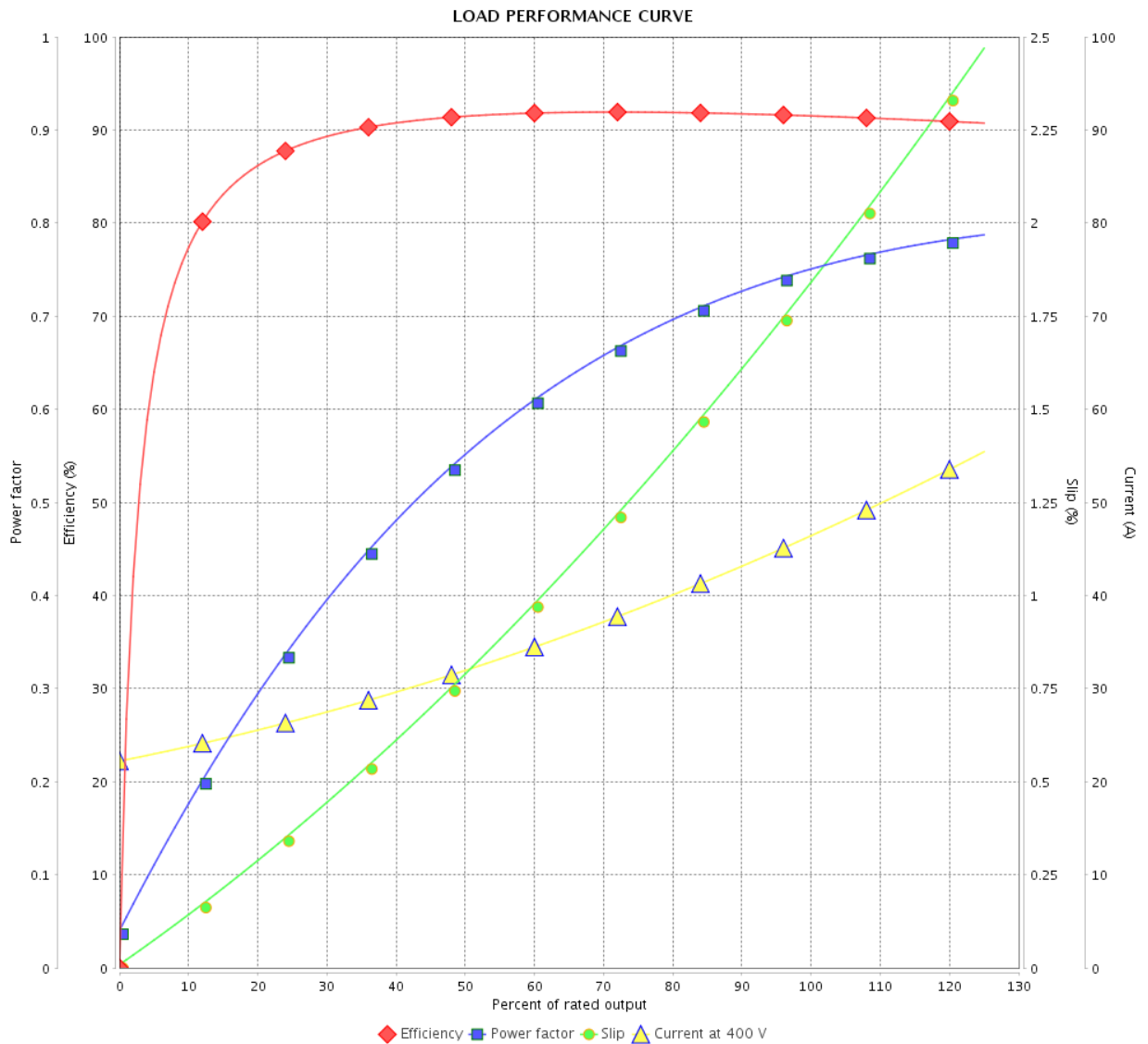


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Performance : 400 V 50 Hz 8P IE3

Rated current : 46.3 A
 LRC : 6.7
 Rated torque : 214 ft.lb
 Locked rotor torque : 210 %
 Breakdown torque : 270 %
 Rated speed : 736 rpm

Moment of inertia (J) : 29.0 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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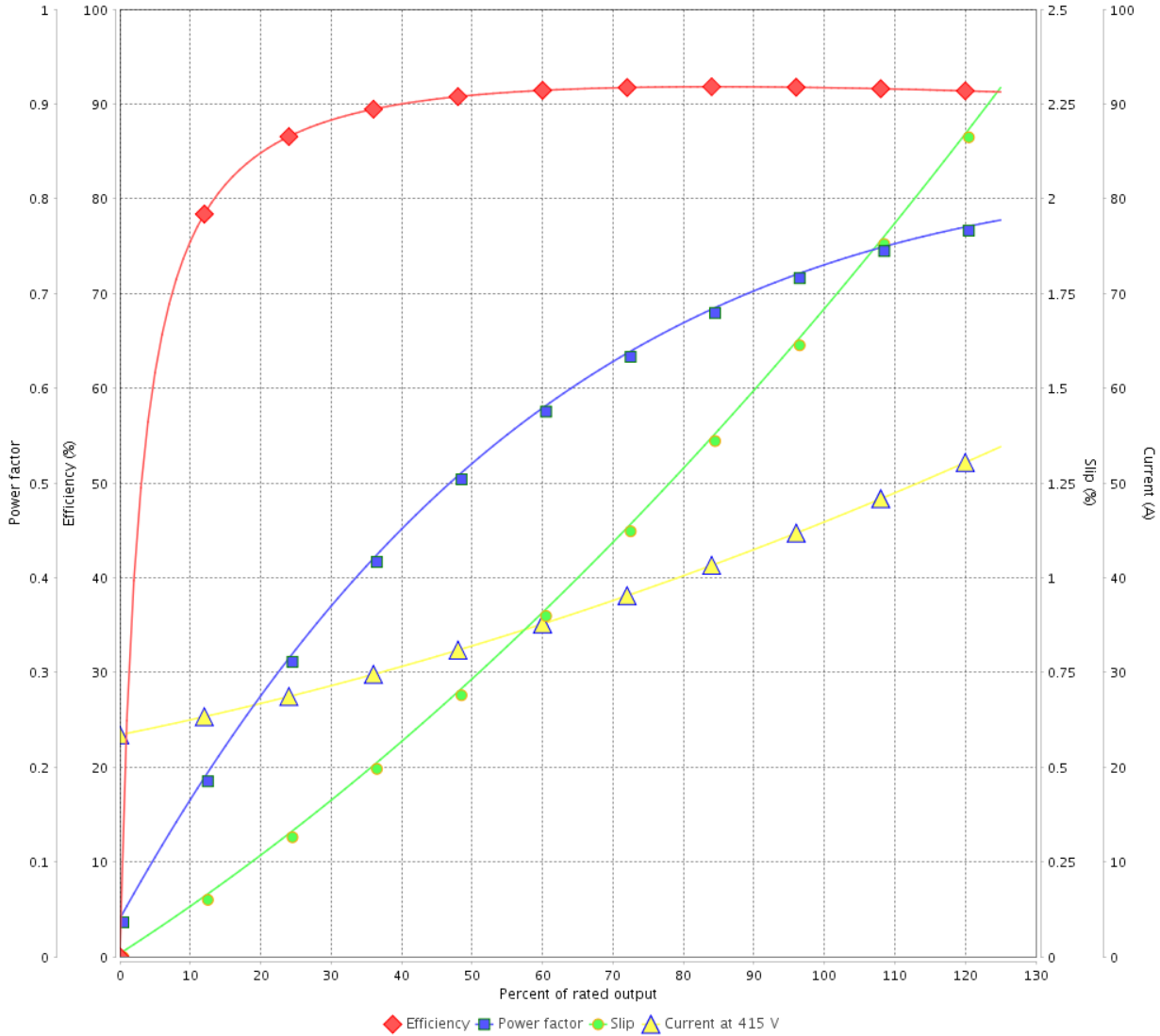
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Performance : 415 V 50 Hz 8P IE3

Rated current	: 45.7 A	Moment of inertia (J)	: 29.0 sq.ft.lb
LRC	: 7.1	Duty cycle	: Cont.(S1)
Rated torque	: 214 ft.lb	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.00
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 737 rpm	Design	: B

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Three Phase Induction Motor - Squirrel Cage

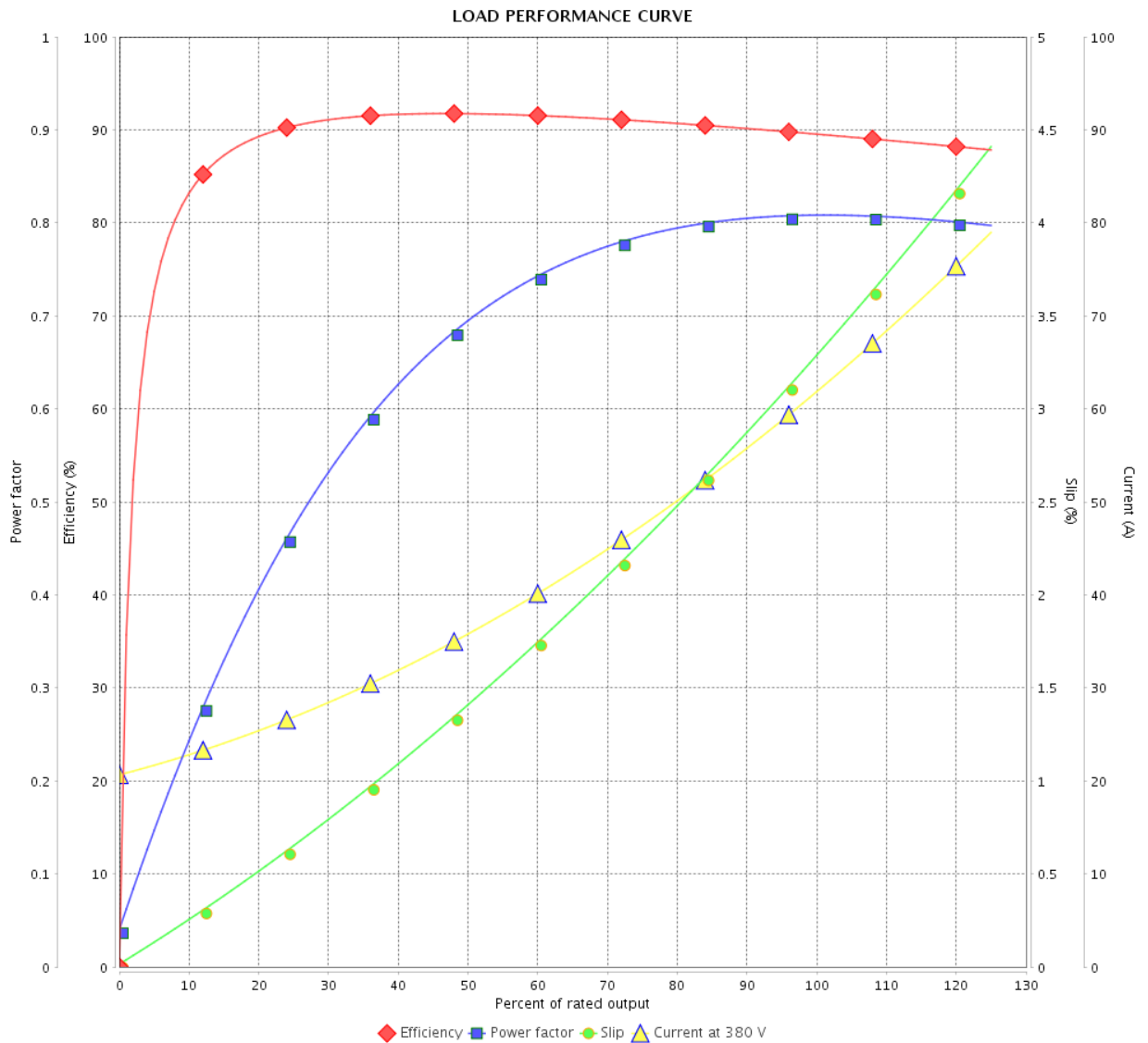


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11355727

Catalog # : 04009ET3E365T-W22



Performance : 380 V 50 Hz 8P IE1

Rated current : 62.9 A
 LRC : 4.5
 Rated torque : 290 ft.lb
 Locked rotor torque : 140 %
 Breakdown torque : 180 %
 Rated speed : 725 rpm

Moment of inertia (J) : 29.0 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : B

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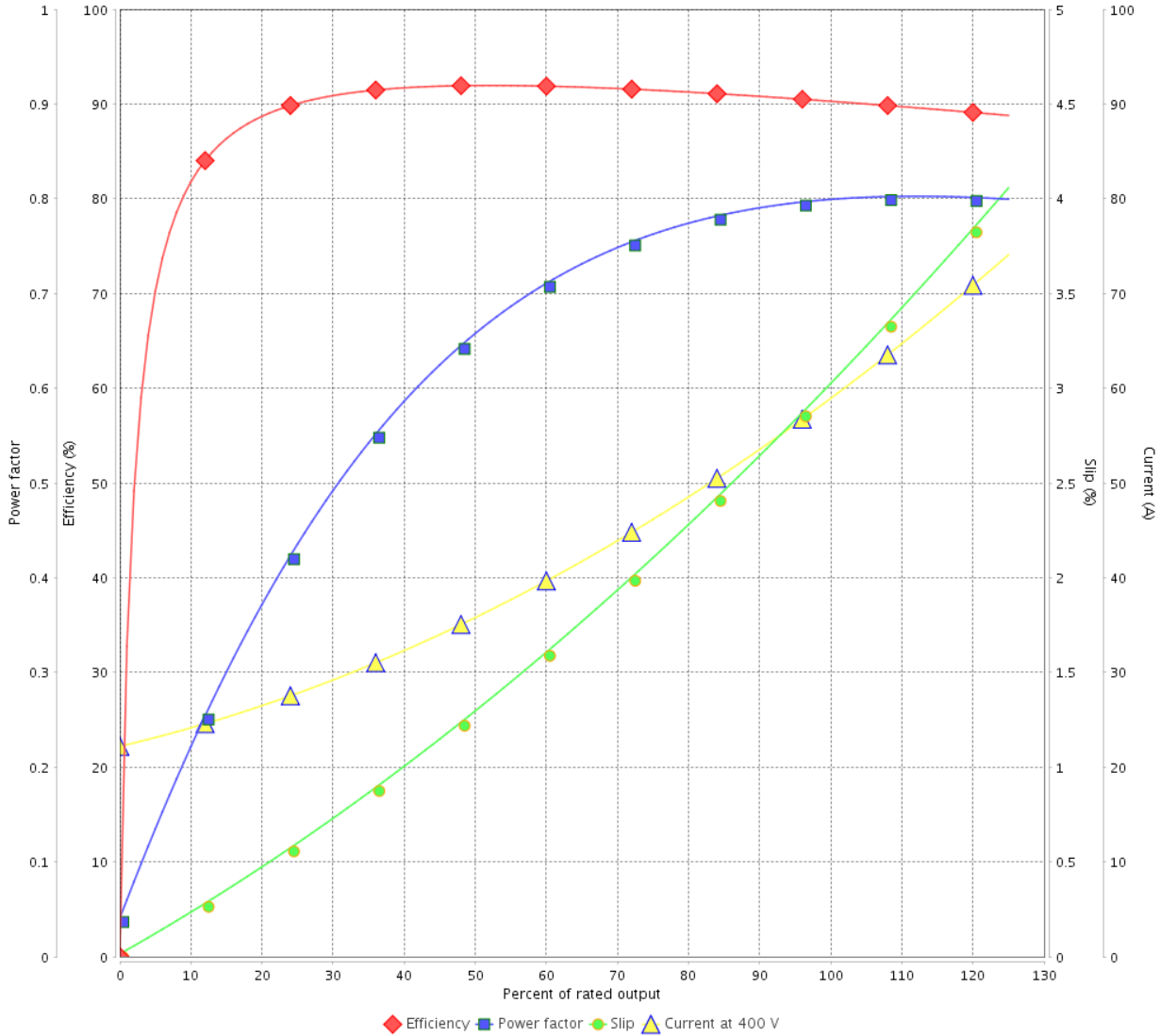
Customer :

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LOAD PERFORMANCE CURVE



Performance : 400 V 50 Hz 8P IE2

Rated current : 60.0 A
 LRC : 5.0
 Rated torque : 289 ft.lb
 Locked rotor torque : 160 %
 Breakdown torque : 200 %
 Rated speed : 727 rpm

Moment of inertia (J) : 29.0 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

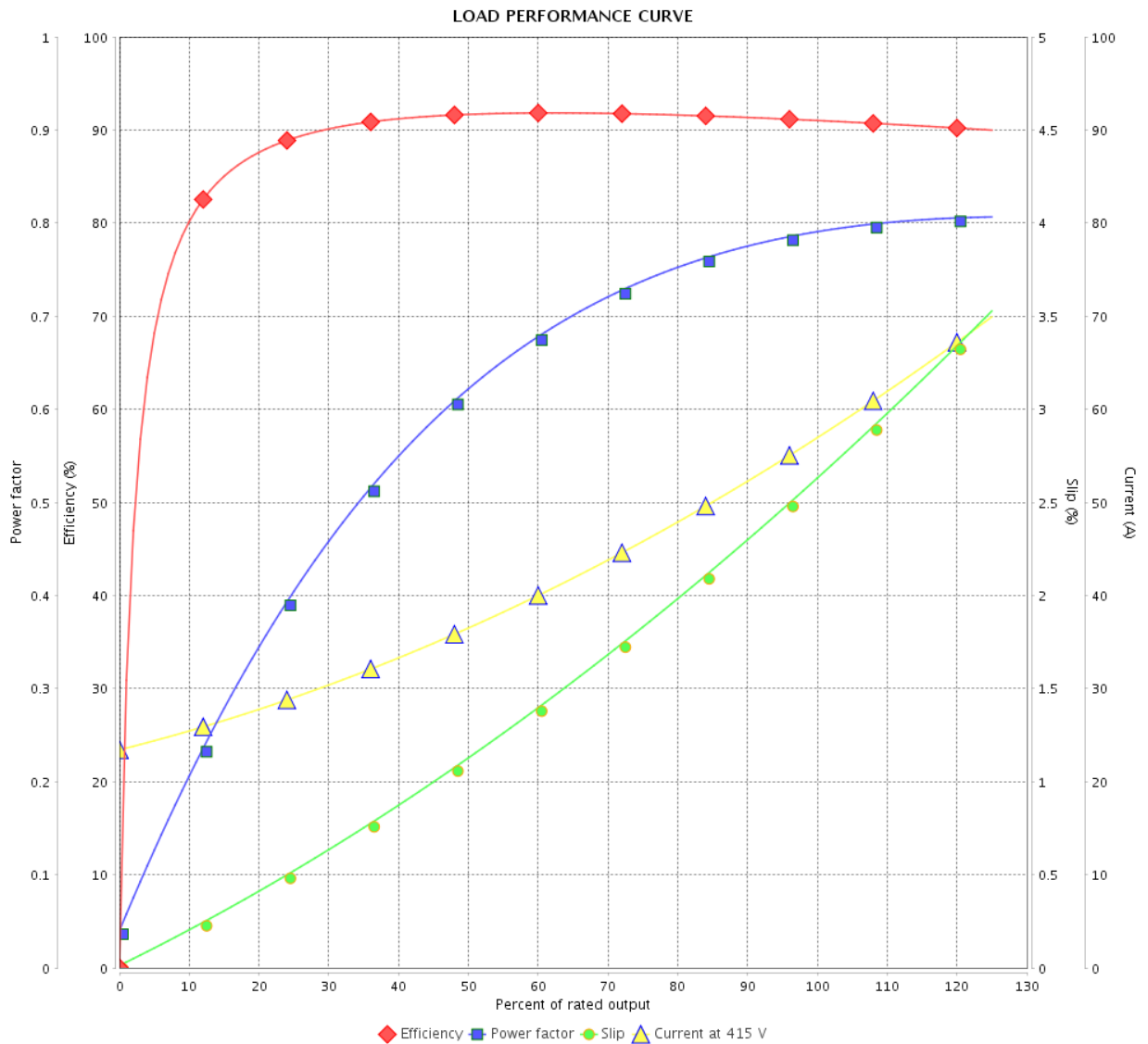


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Performance : 415 V 50 Hz 8P IE2

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 LRC : 5.5
 Rated torque : 288 ft.lb
 Locked rotor torque : 170 %
 Breakdown torque : 210 %
 Rated speed : 730 rpm

Moment of inertia (J) : 29.0 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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 Product code : 11355727
 Catalog # : 04009ET3E365T-W22

Performance : 230/460 V 60 Hz 8P

Rated current : 102/50.9 A	Moment of inertia (J) : 29.0 sq.ft.lb
LRC : 5.9	Duty cycle : Cont.(S1)
Rated torque : 238 ft.lb	Insulation class : F
Locked rotor torque : 170 %	Service factor : 1.25
Breakdown torque : 210 %	Temperature rise : 80 K
Rated speed : 882 rpm	Design : B

Heating constant

Cooling constant

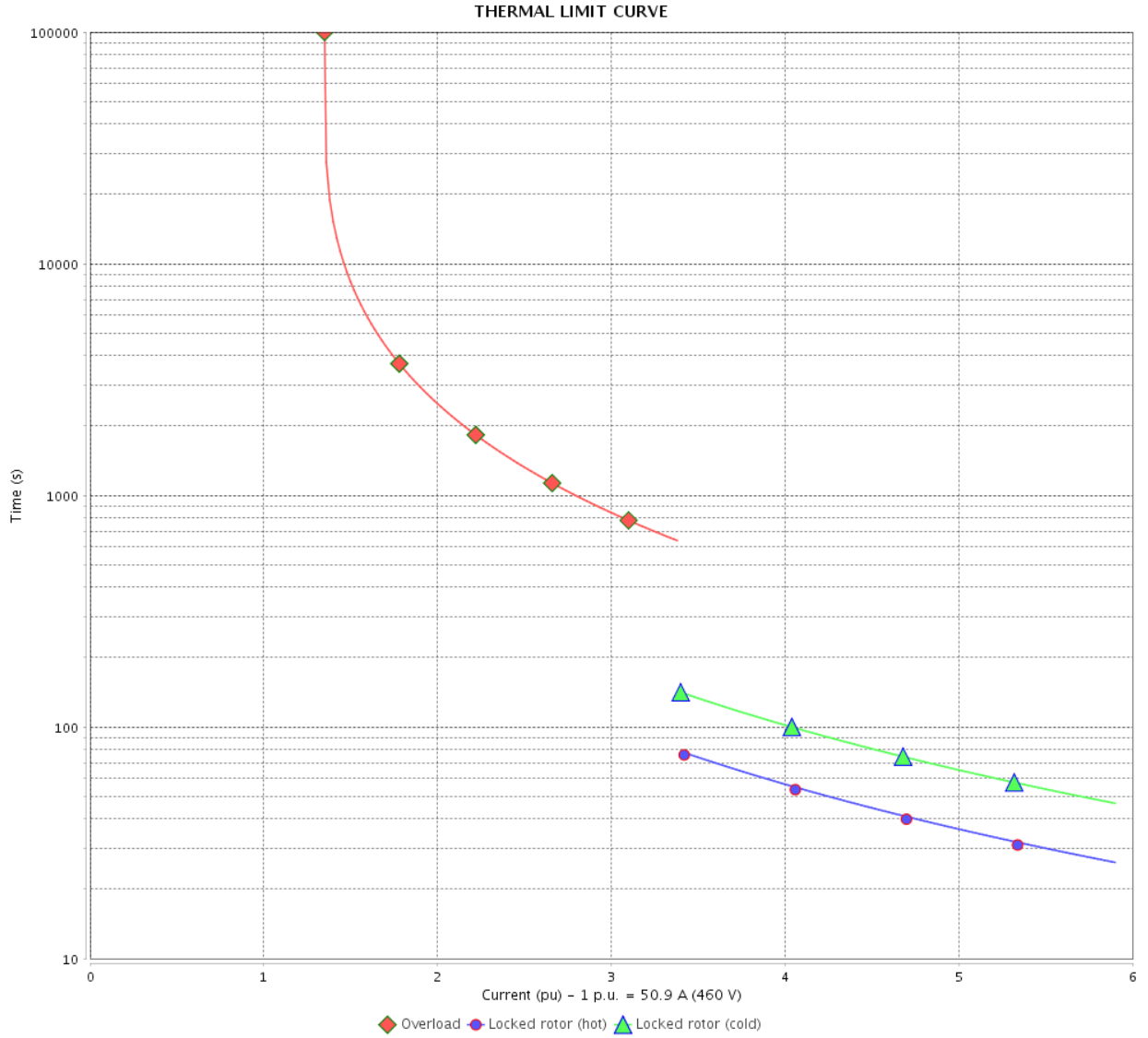
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THERMAL LIMIT CURVE

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Locked rotor torque	: 600 %	Service factor	: 1.00
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 735 rpm	Design	: B

Heating constant

Cooling constant

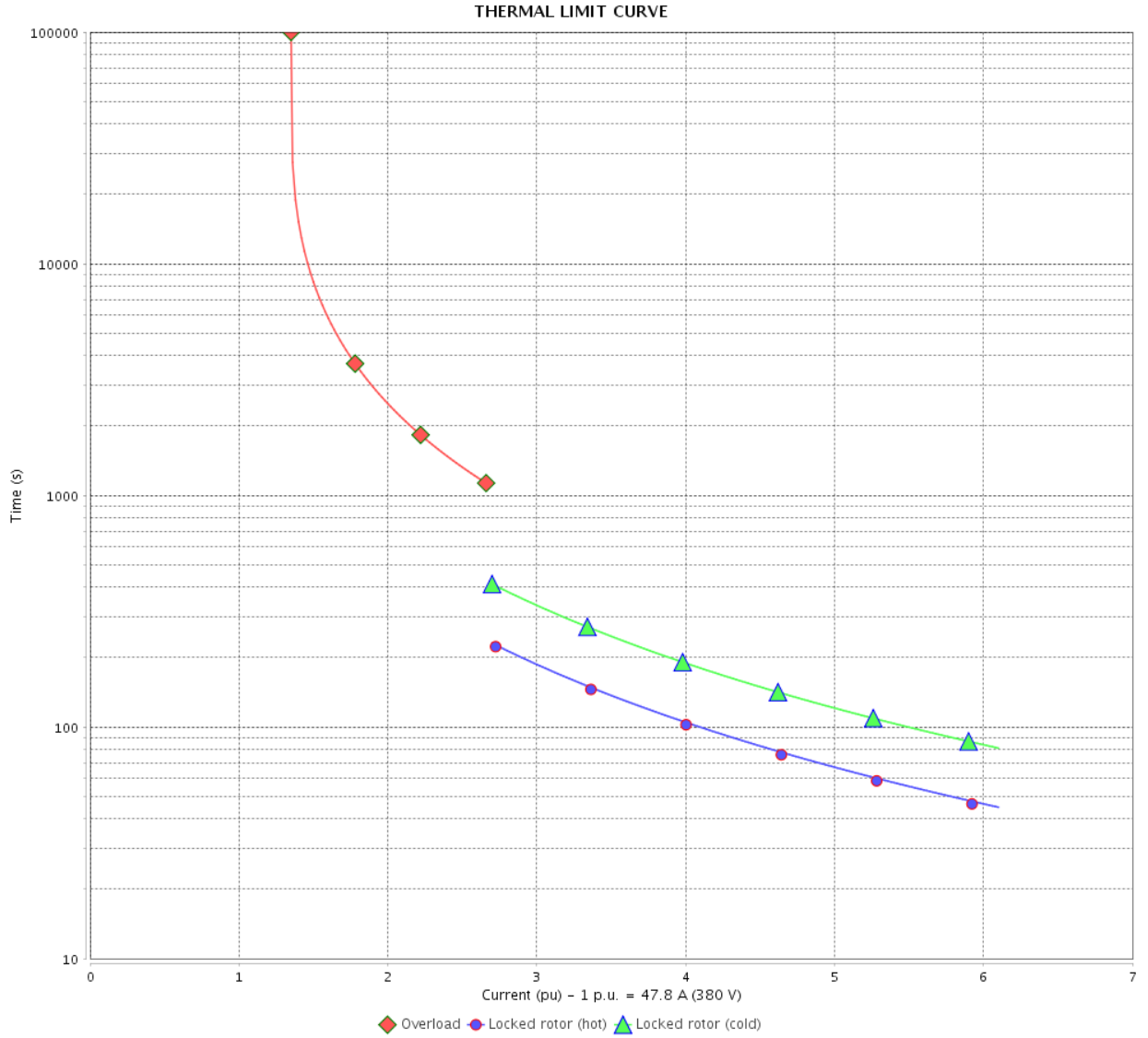
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Performance : 400 V 50 Hz 8P IE3

Rated current	: 46.3 A	Moment of inertia (J)	: 29.0 sq.ft.lb
LRC	: 6.7	Duty cycle	: Cont.(S1)
Rated torque	: 214 ft.lb	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.00
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 736 rpm	Design	: B

Heating constant

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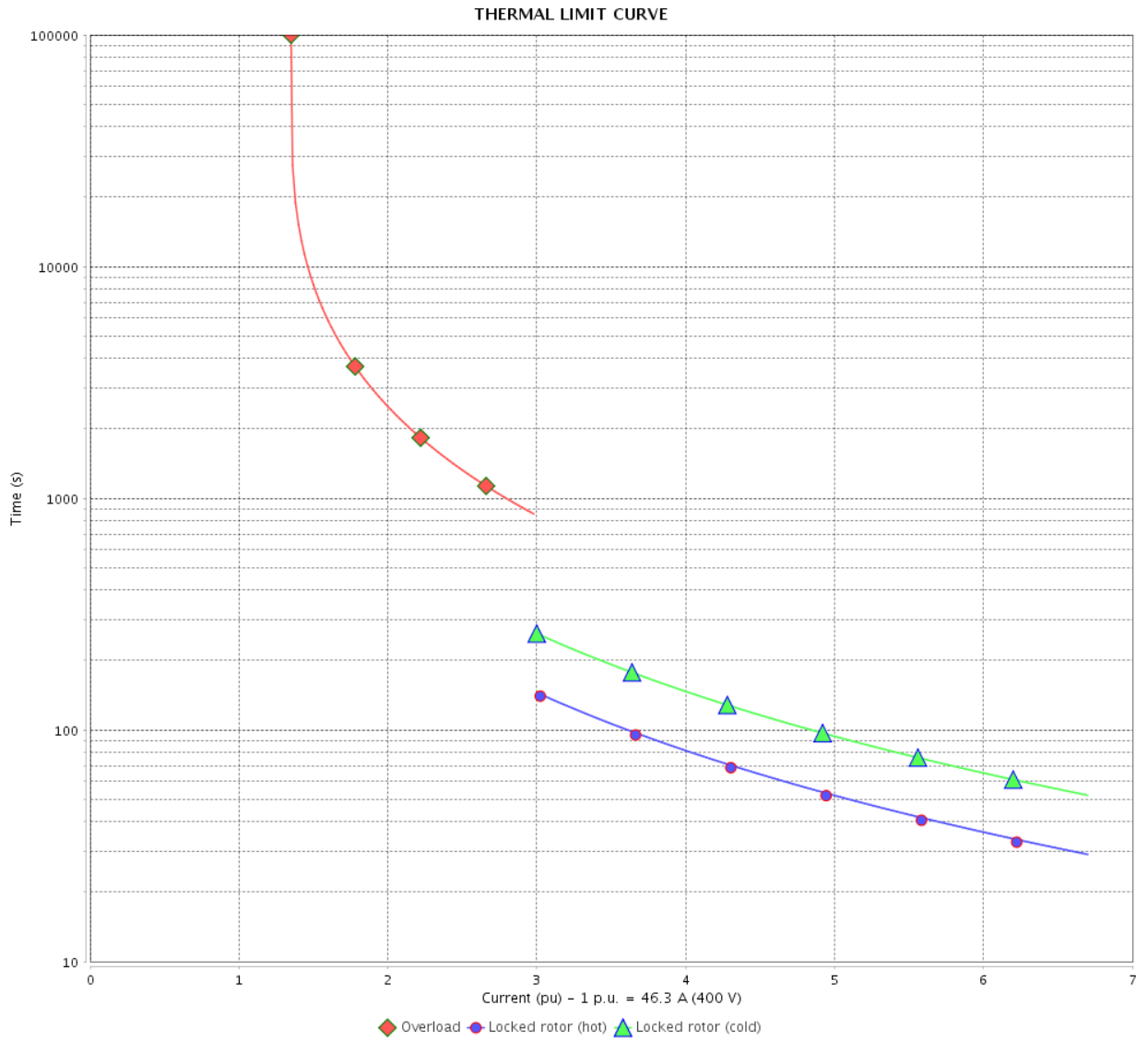
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Breakdown torque	: 300 %	Temperature rise	: 80 K
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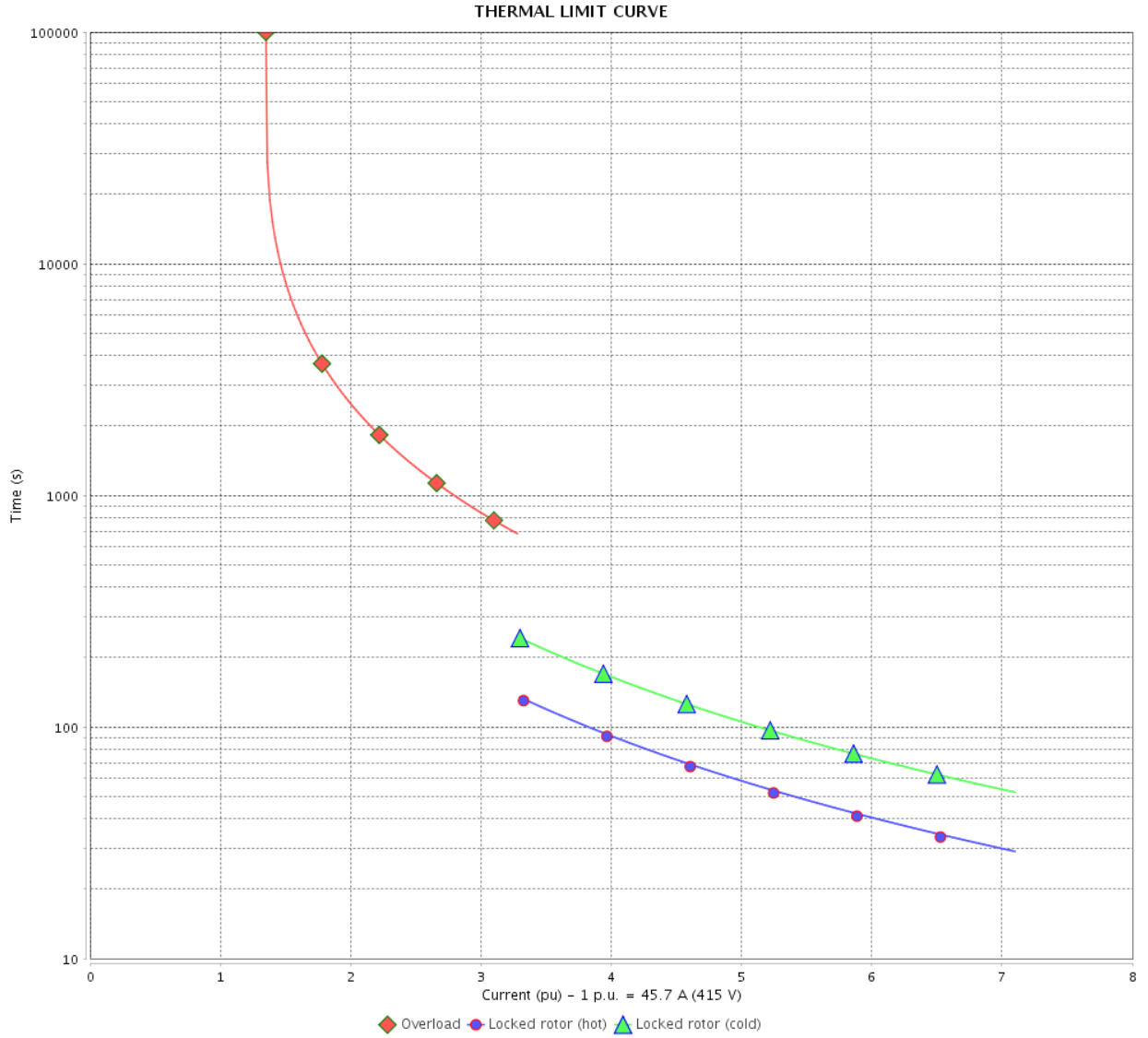
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Rated torque	: 290 ft.lb	Insulation class	: F
Locked rotor torque	: 140 %	Service factor	: 1.00
Breakdown torque	: 180 %	Temperature rise	: 105 K
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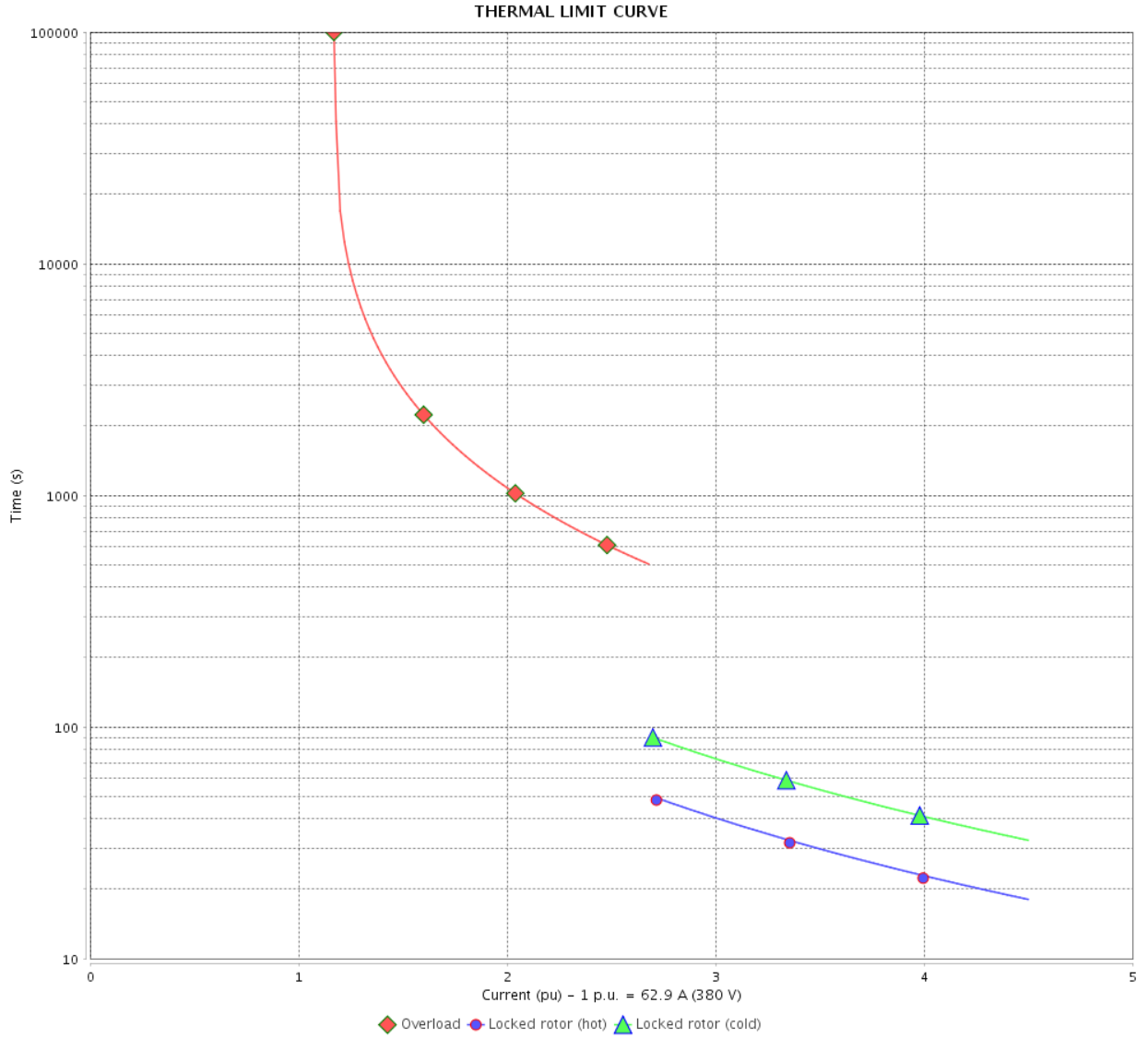
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Rated speed	: 727 rpm	Design	: B

Heating constant

Cooling constant

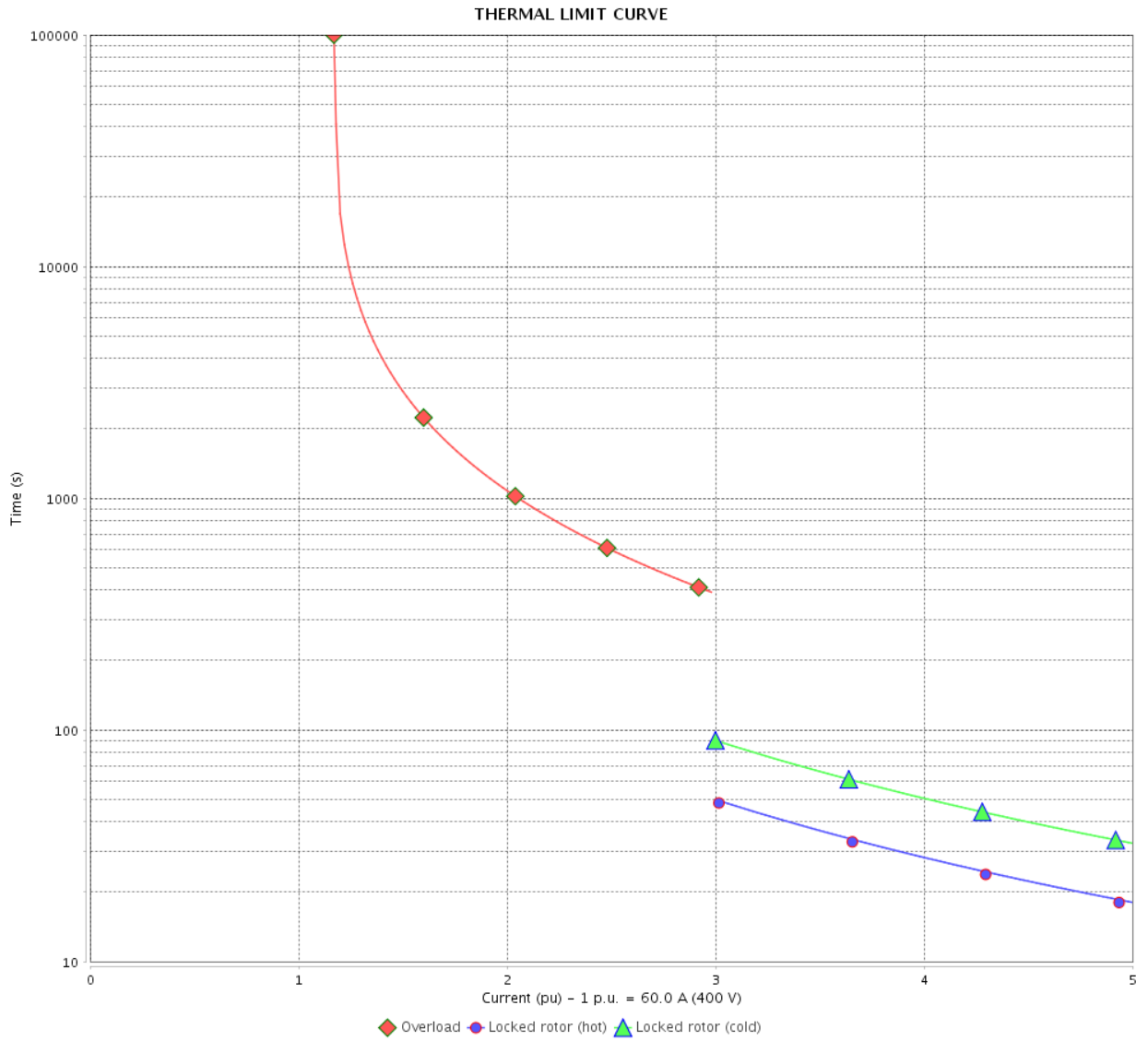
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Performed by				
Checked by			Page	Revision
Date	13/04/2022		26 / 36	

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 : 11355727
Catalog # : 04009ET3E365T-W22

Performance : 415 V 50 Hz 8P IE2

Rated current	: 58.1 A	Moment of inertia (J)	: 29.0 sq.ft.lb
LRC	: 5.5	Duty cycle	: Cont.(S1)
Rated torque	: 288 ft.lb	Insulation class	: F
Locked rotor torque	: 170 %	Service factor	: 1.00
Breakdown torque	: 210 %	Temperature rise	: 105 K
Rated speed	: 730 rpm	Design	: B

Heating constant

Cooling constant

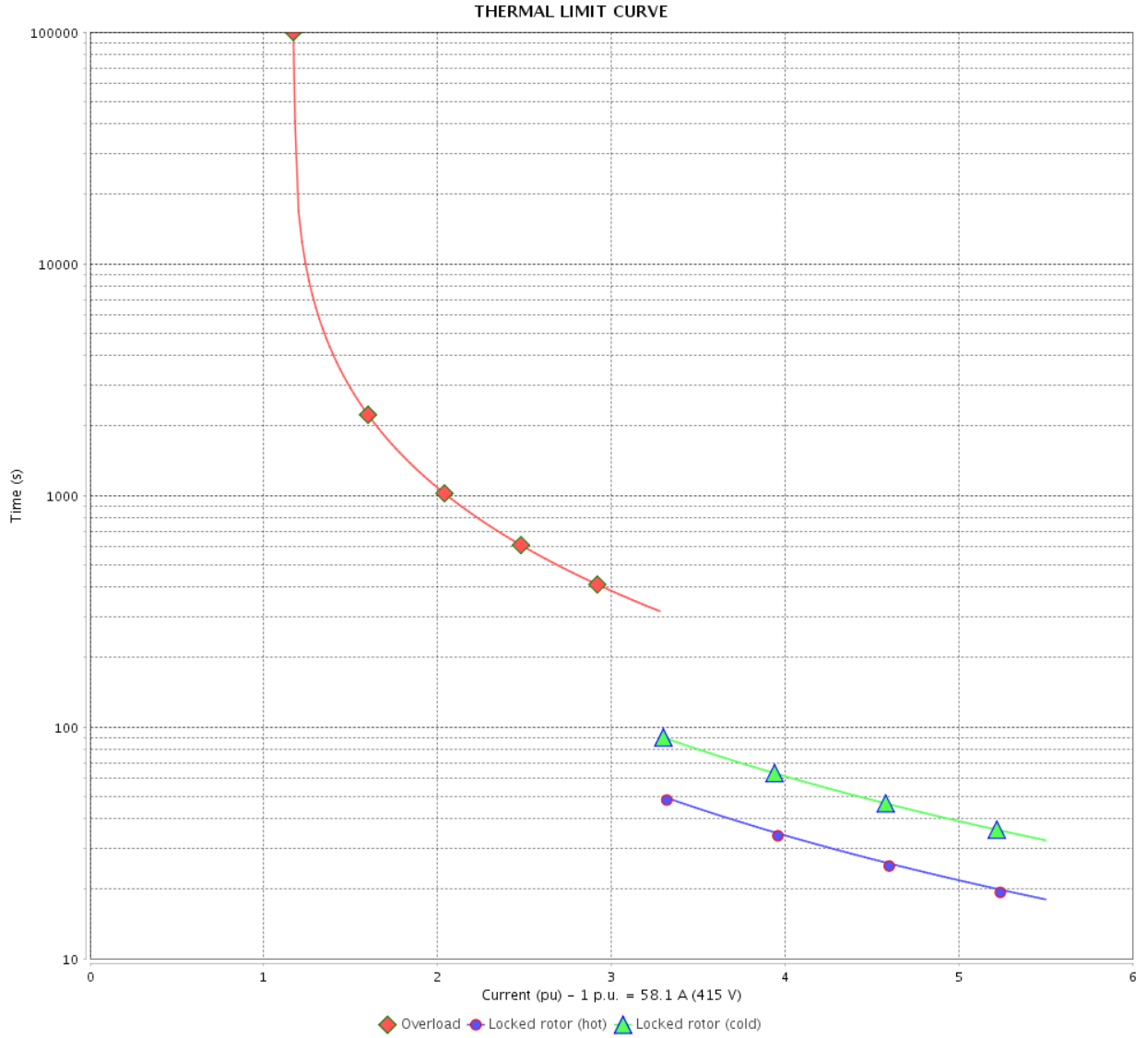
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Checked by			Page	Revision
Date	13/04/2022		28 / 36	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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Checked by				
Date				

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



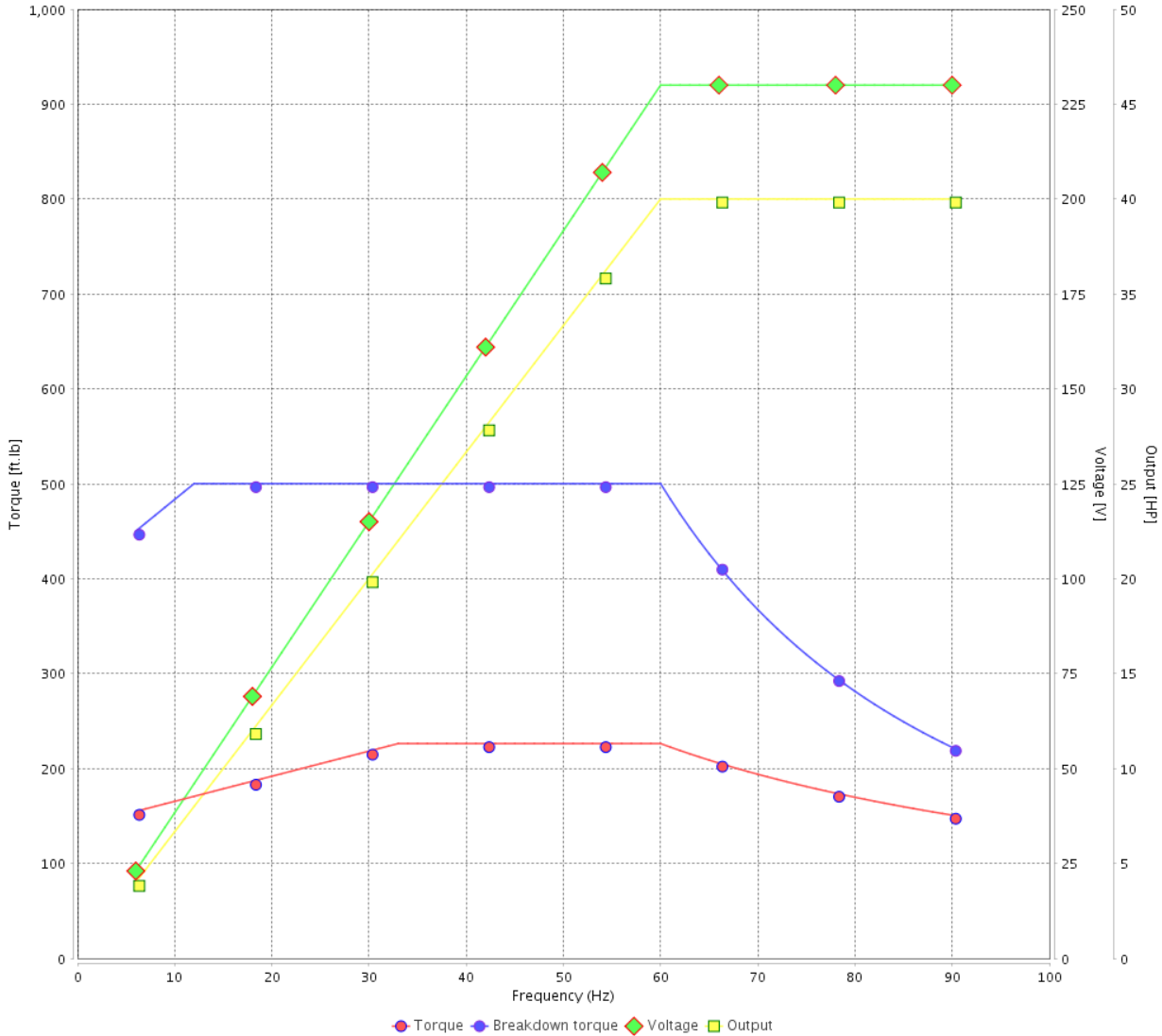
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11355727

Catalog # : 04009ET3E365T-W22

VFD OPERATION CURVE



Performance : 230/460 V 60 Hz 8P

Rated current : 102/50.9 A
 LRC : 5.9
 Rated torque : 238 ft.lb
 Locked rotor torque : 170 %
 Breakdown torque : 210 %
 Rated speed : 882 rpm

Moment of inertia (J) : 29.0 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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Performed by			Page 30 / 36	Revision
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Date	13/04/2022			

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

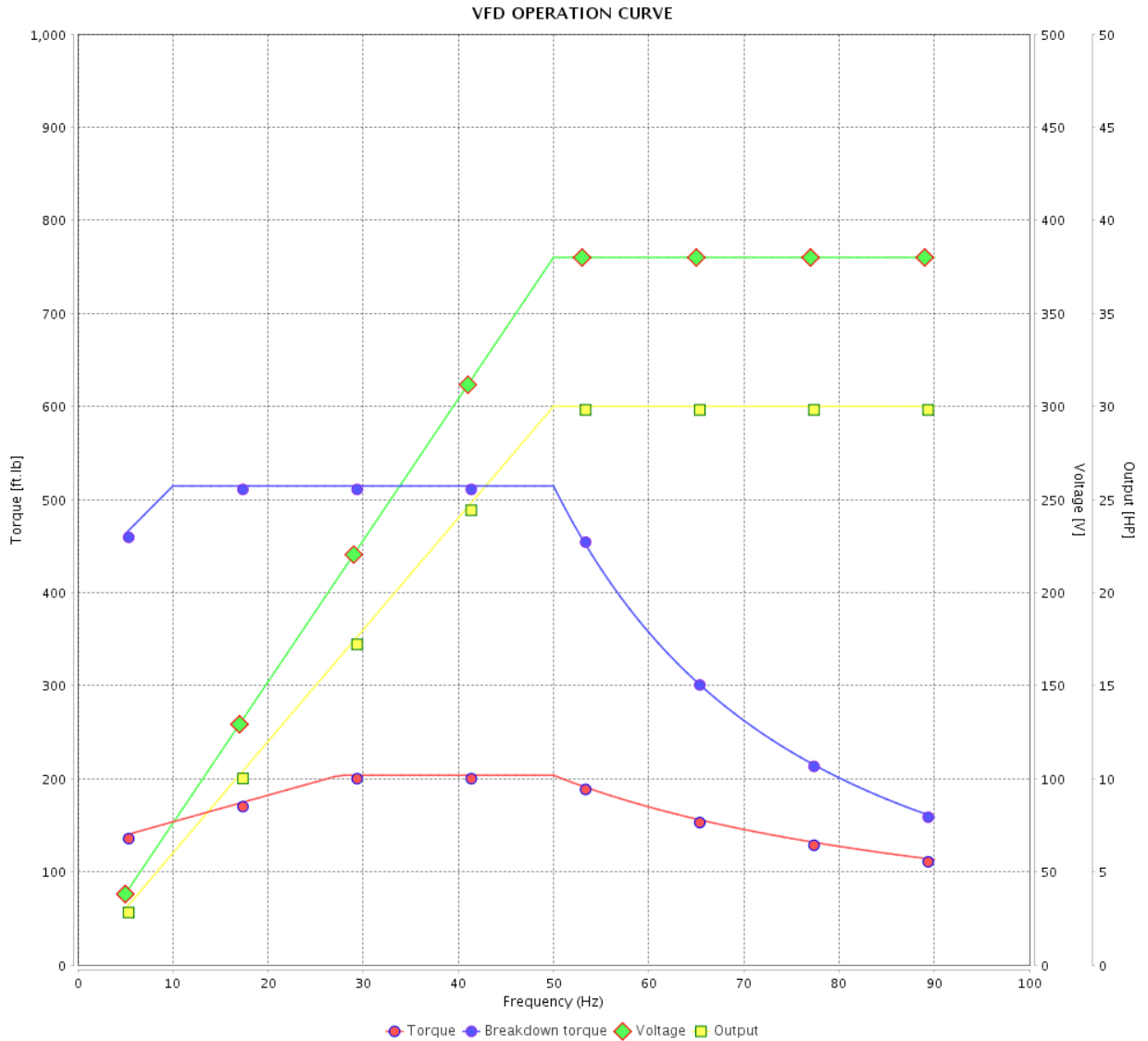


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11355727

Catalog # : 04009ET3E365T-W22



Performance : 380 V 50 Hz 8P IE3

Rated current : 47.8 A
 LRC : 6.1
 Rated torque : 214 ft.lb
 Locked rotor torque : 600 %
 Breakdown torque : 240 %
 Rated speed : 735 rpm

Moment of inertia (J) : 29.0 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



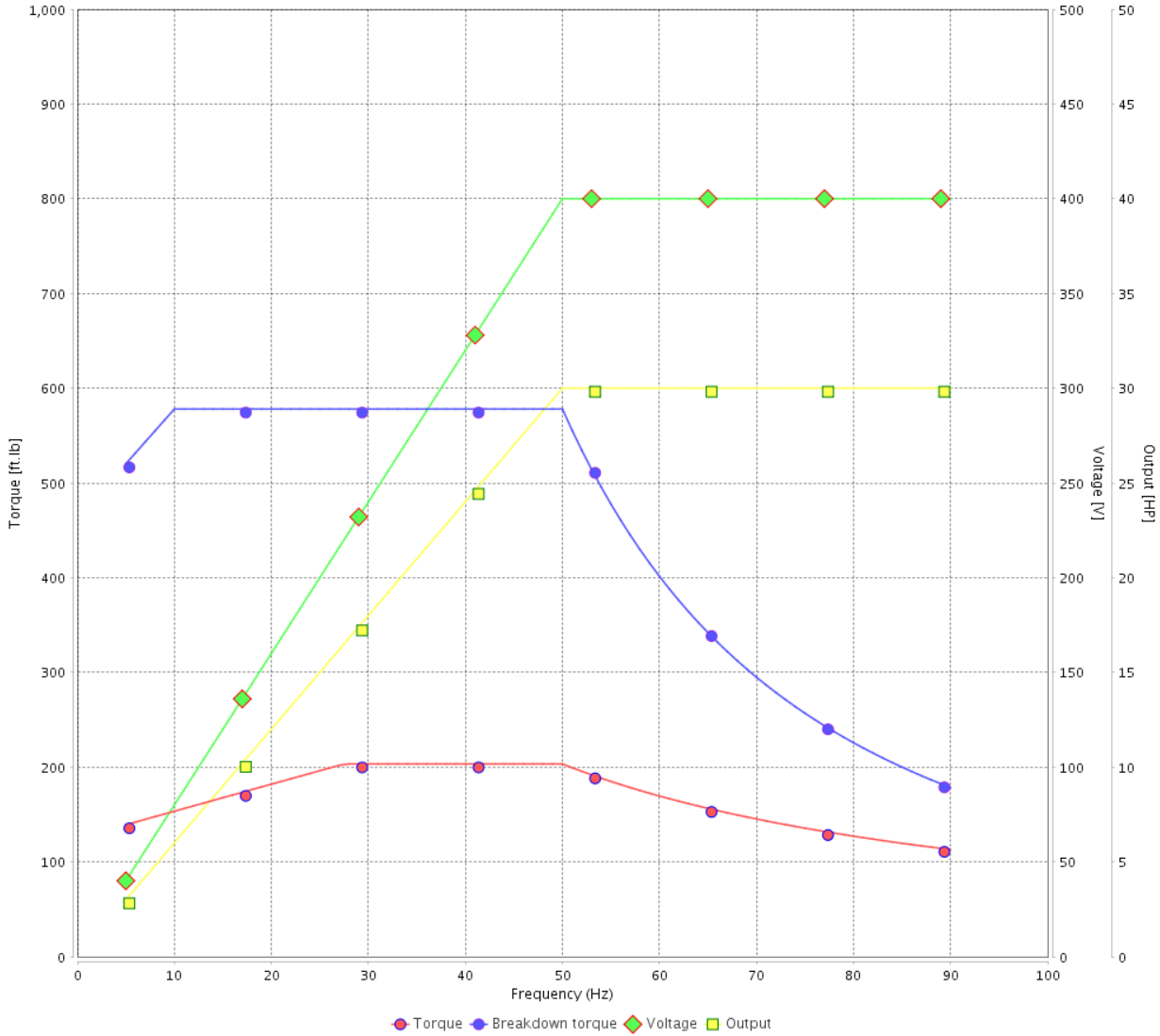
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11355727

Catalog # : 04009ET3E365T-W22

VFD OPERATION CURVE



Performance : 400 V 50 Hz 8P IE3

Rated current	: 46.3 A	Moment of inertia (J)	: 29.0 sq.ft.lb
LRC	: 6.7	Duty cycle	: Cont.(S1)
Rated torque	: 214 ft.lb	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.00
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 736 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
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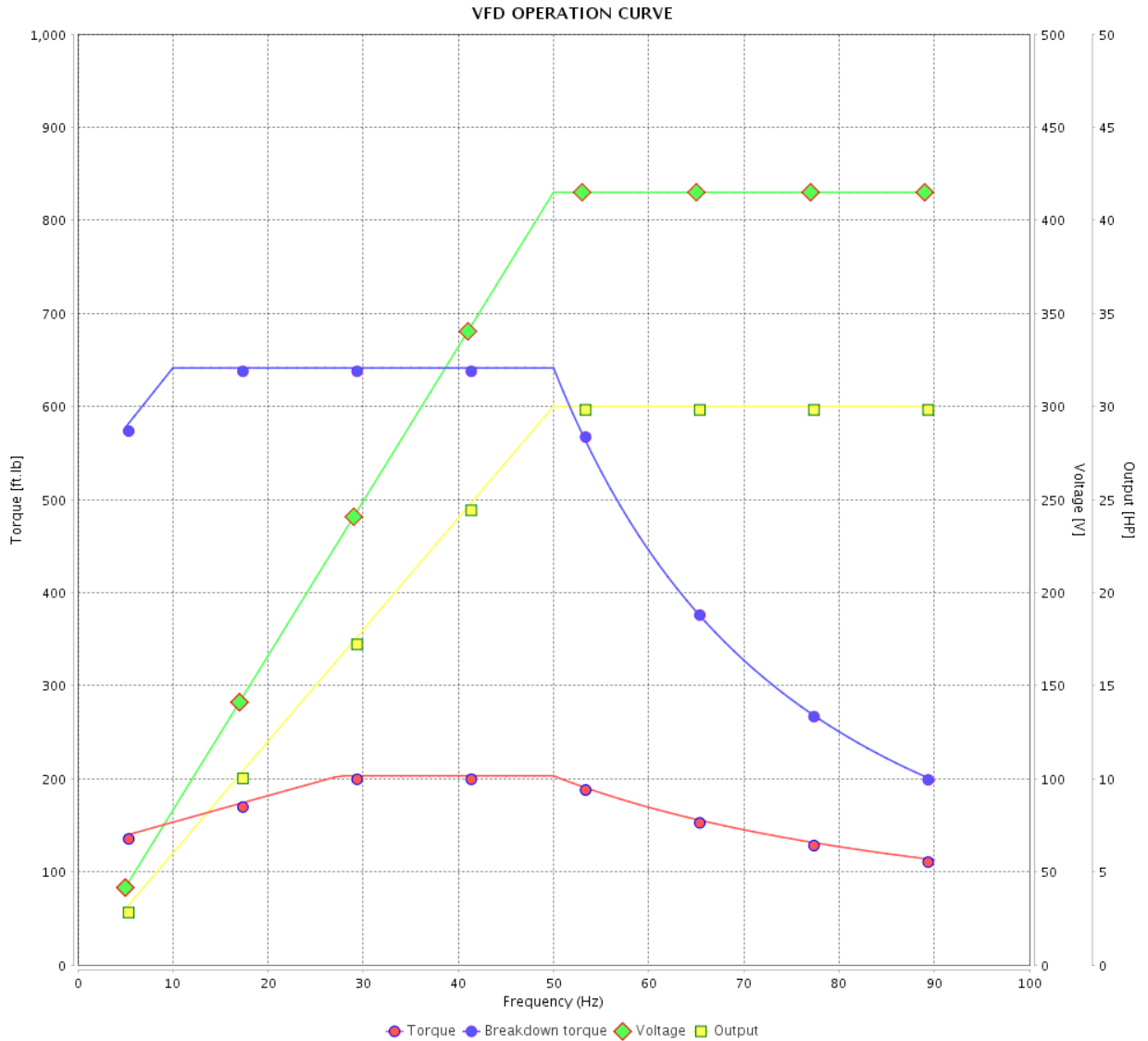
VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase
 Product code : 11355727
 Catalog # : 04009ET3E365T-W22



Performance : 415 V 50 Hz 8P IE3

Rated current : 45.7 A	Moment of inertia (J) : 29.0 sq.ft.lb
LRC : 7.1	Duty cycle : Cont.(S1)
Rated torque : 214 ft.lb	Insulation class : F
Locked rotor torque : 229 %	Service factor : 1.00
Breakdown torque : 300 %	Temperature rise : 80 K
Rated speed : 737 rpm	Design : B

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

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



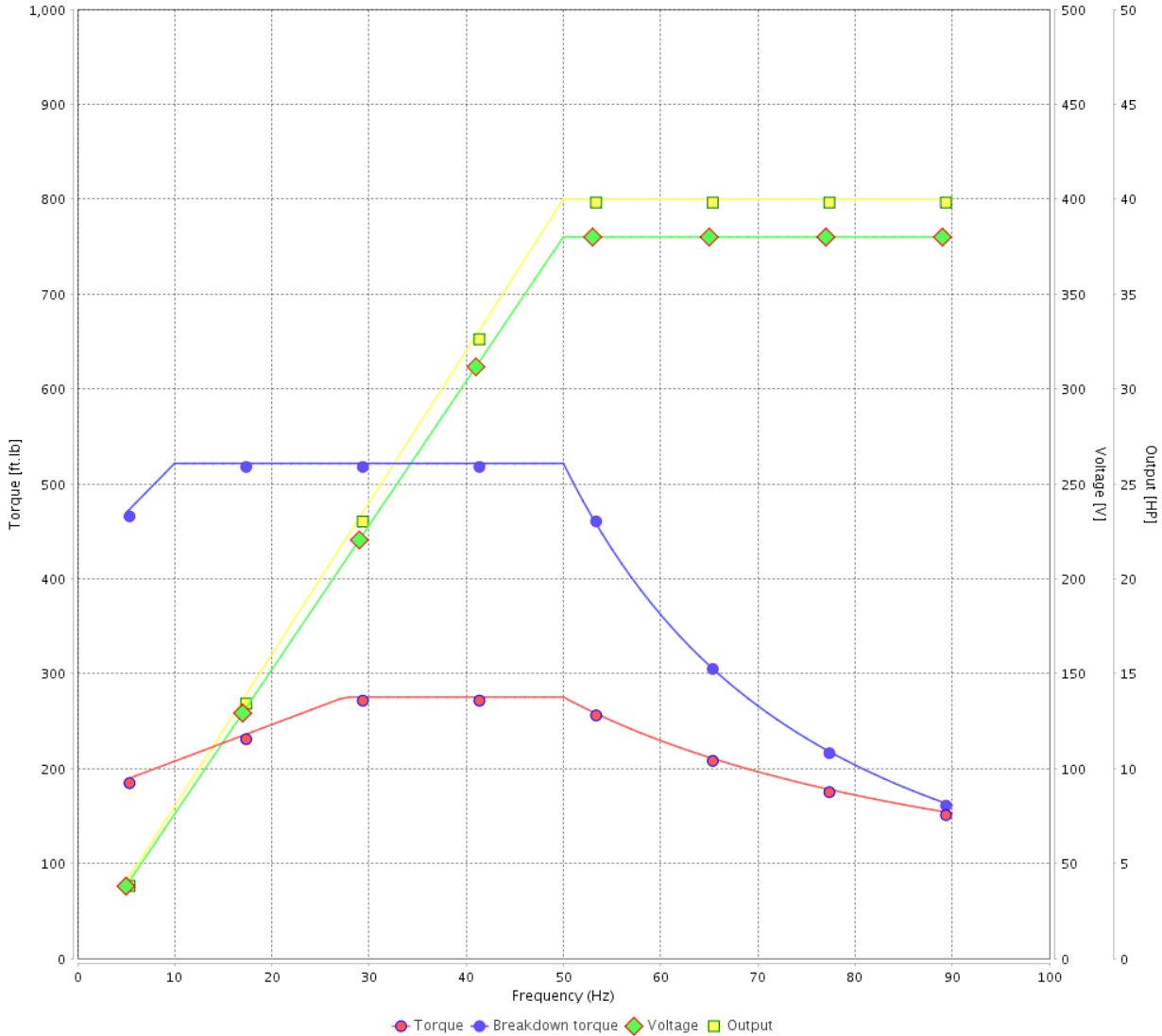
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11355727

Catalog # : 04009ET3E365T-W22

VFD OPERATION CURVE



Performance : 380 V 50 Hz 8P IE1

Rated current	: 62.9 A	Moment of inertia (J)	: 29.0 sq.ft.lb
LRC	: 4.5	Duty cycle	: Cont.(S1)
Rated torque	: 290 ft.lb	Insulation class	: F
Locked rotor torque	: 140 %	Service factor	: 1.00
Breakdown torque	: 180 %	Temperature rise	: 105 K
Rated speed	: 725 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
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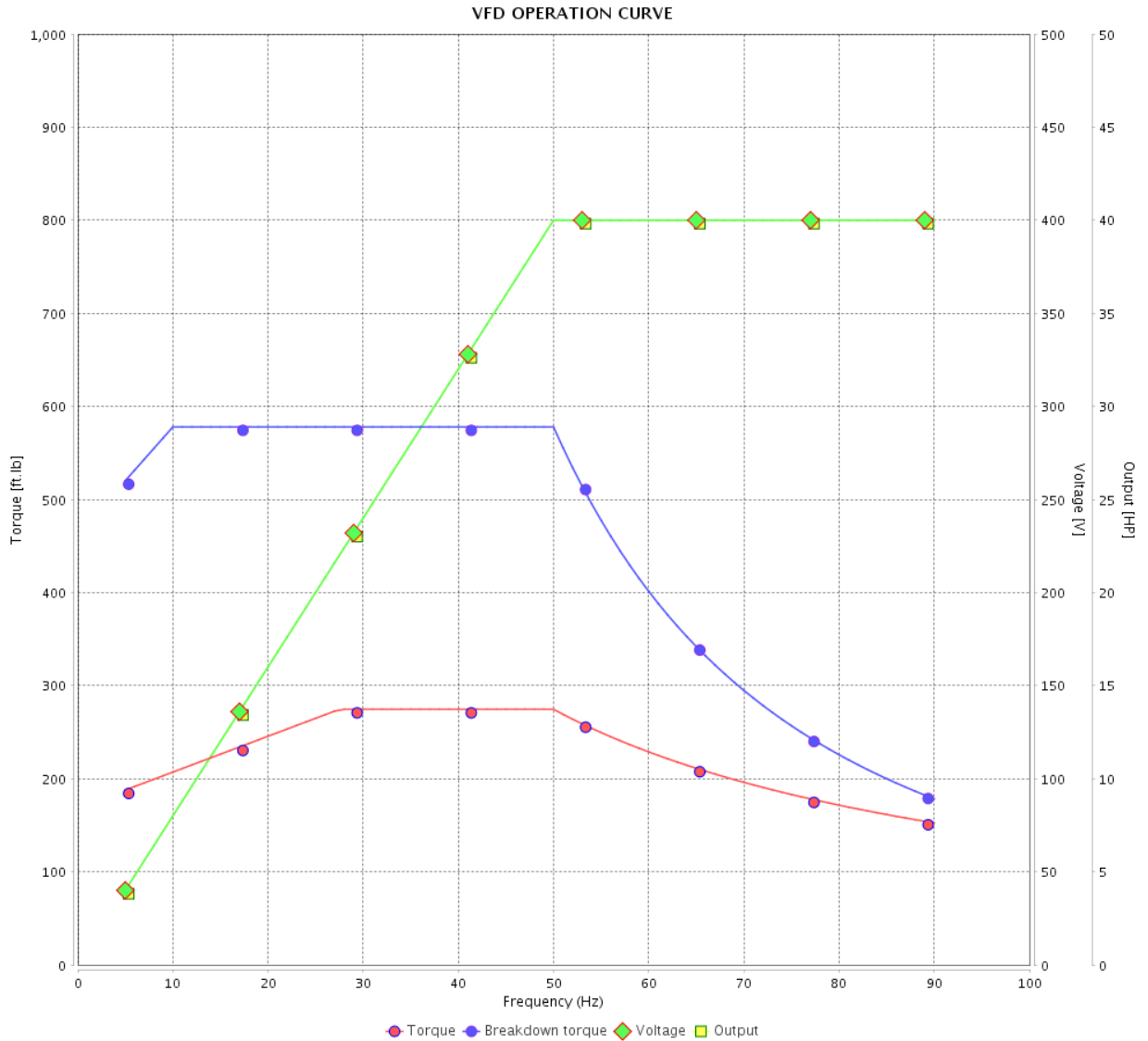
VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase
 Product code : 11355727
 Catalog # : 04009ET3E365T-W22



Performance : 400 V 50 Hz 8P IE2

Rated current : 60.0 A	Moment of inertia (J) : 29.0 sq.ft.lb
LRC : 5.0	Duty cycle : Cont.(S1)
Rated torque : 289 ft.lb	Insulation class : F
Locked rotor torque : 160 %	Service factor : 1.00
Breakdown torque : 200 %	Temperature rise : 105 K
Rated speed : 727 rpm	Design : B

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Date	13/04/2022			

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



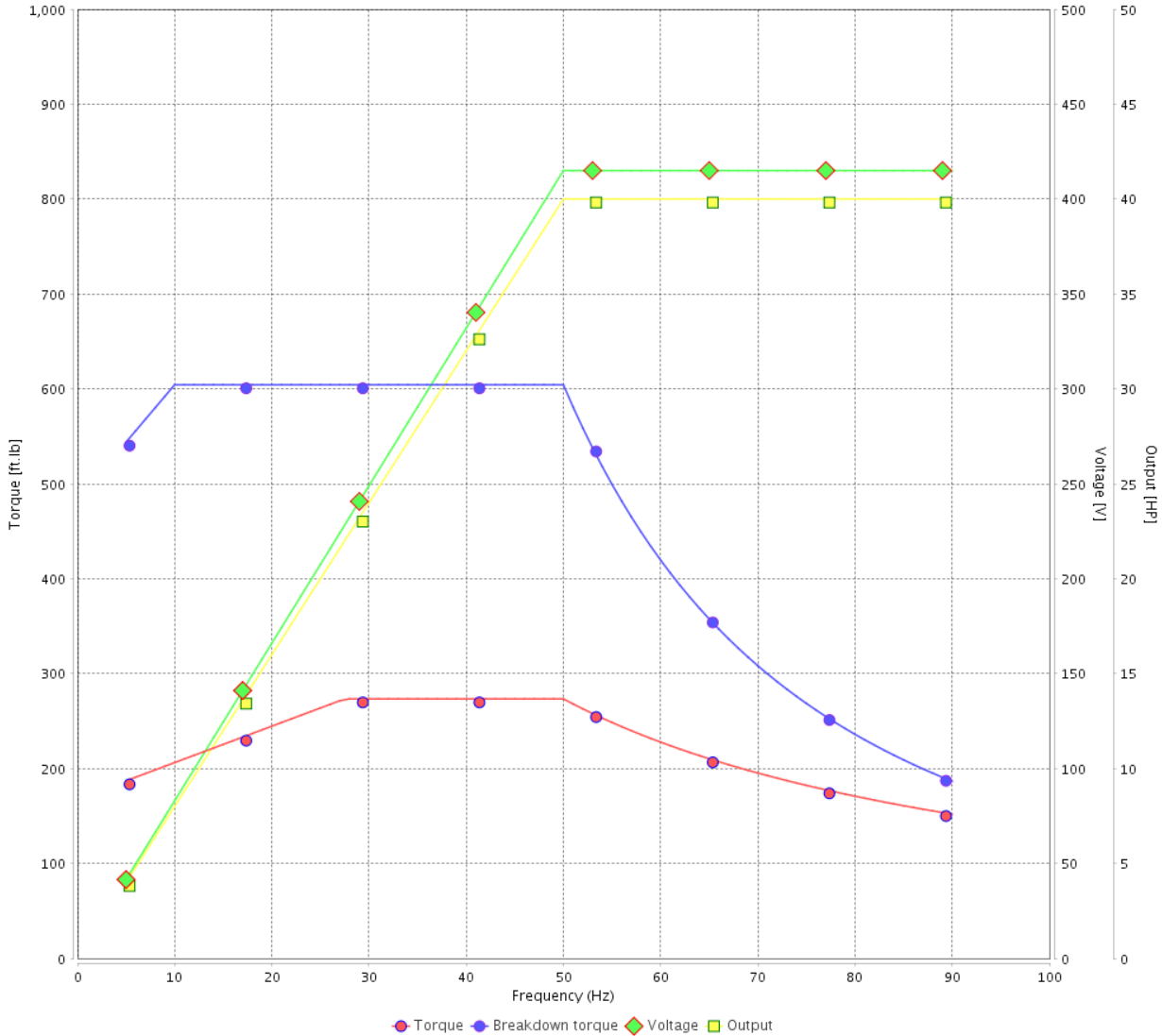
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11355727

Catalog # : 04009ET3E365T-W22

VFD OPERATION CURVE



Performance : 415 V 50 Hz 8P IE2

Rated current : 58.1 A
 LRC : 5.5
 Rated torque : 288 ft.lb
 Locked rotor torque : 170 %
 Breakdown torque : 210 %
 Rated speed : 730 rpm

Moment of inertia (J) : 29.0 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : B

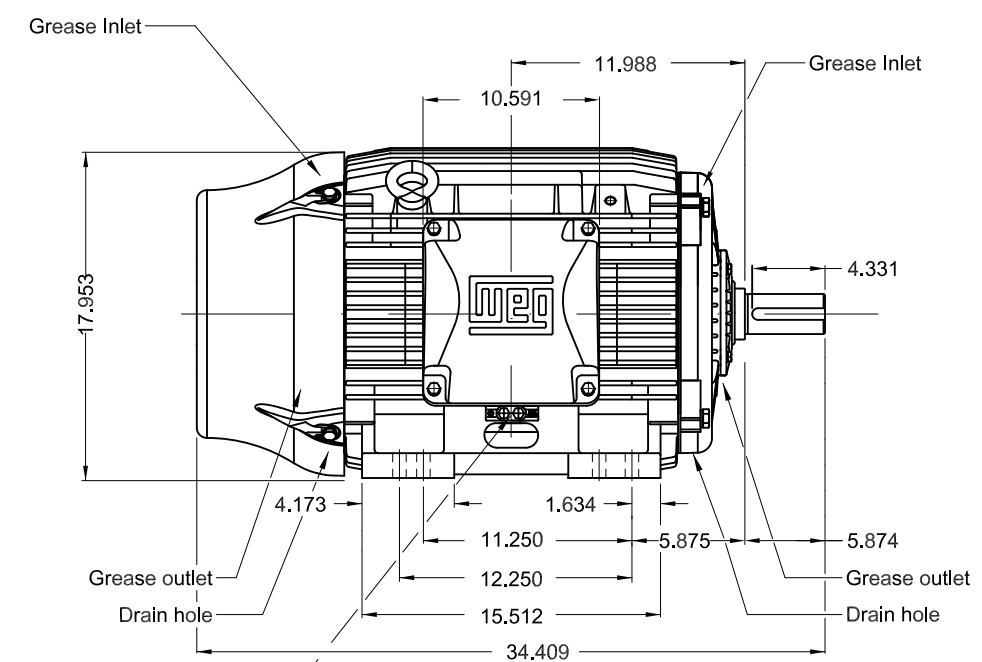
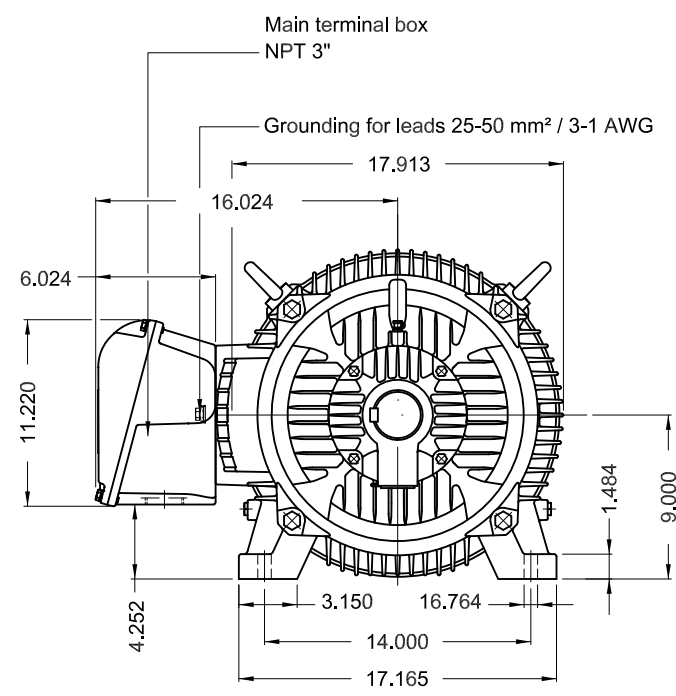
Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page	Revision
Checked by				
Date				

1 2 3 4 5 6

A

B

C

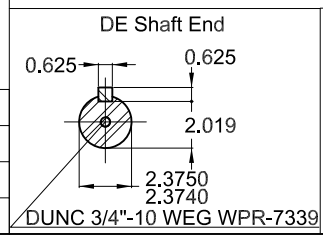


Grounding for leads 25-185 mm² / 3AWG-350MCM

D

E

Without vertical jackscrews
 Color RAL 5009
 Painting plan 203A
 Mounting B3R(D)



40 HP 08 Poles 60 Hz A

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	PIRWBUSER	THREE PH. MOTOR W22 PREM. EFF.					
CHECKED		FRAME 364/5T IP55 TEFC					
RELEASED							
REL DT.	WMO	Jaragua do Sul	Product Engineering	SHEET	1 / 1		

PREVIEW
WDD





FOR SAFE AREA
Mod.TE1BFOXON
CC029A



For use on 60Hz
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 04009ET3E365T-W22

Inverter Duty Motor
Severe Duty

PH3 60Hz Fr. 364/5T 1000m.a.s.l. IP55 TEFC 868lb

V 230/460

A 104/52.2

HP 40

kW 30

SF 1.25

SFA 130/65.3

RPM 885

PF 0.78

AMB 40°C

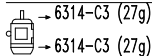
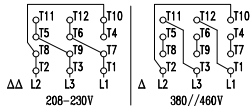
INS cl. F DT80K NEMA NOM EFF 92.4%

DUTY CONT.

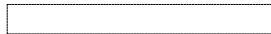
DES B Code G

USABLE @208V 111A SF 1.10 SFA 122

40HP 30kW 50Hz 380V 62.9A 725RPM SF 1.00 EFF 89.5% (IE1)



MOBIL POLYREX EM (20000h)



MADE IN BRAZIL
11355727