

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :							
Product line	: NEMA Premium Efficiency Three-Phase	Product code :	13025620				
		Catalog # :	00709ET3E256TC-W22				
Frame	: 254/6TC	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	: 299 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]	230/460	380	400	415	380	400	415
Rated current [A]	22.2/11.1	10.4	10.5	10.4	13.1	12.5	12.4
L. R. Amperes [A]	118/58.8	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]	13.0/6.50	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) 33s (hot)	45s (cold) 25s (hot)	45s (cold) 25s (hot)	45s (cold) 25s (hot)	45s (cold) 25s (hot)	45s (cold) 25s (hot)	45s (cold) 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	: 6309 C3	6209 C3	Foundation loads				
Sealing	: V'Ring	V'Ring	Max. traction	: 446 lb			
Lubrication interval	: 20000 h	20000 h	Max. compression	: 744 lb			
Lubricant amount	: 13 g	9 g					
Lubricant type	: Mobil Polyrex EM						
Notes							
USABLE @208V 24.5A SF 1.15 SFA 28.2A							
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.			
Rev.	Changes Summary			Performed	Checked	Date	
Performed by							
Checked by					Page	Revision	
Date	12/04/2022				1 / 36		

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



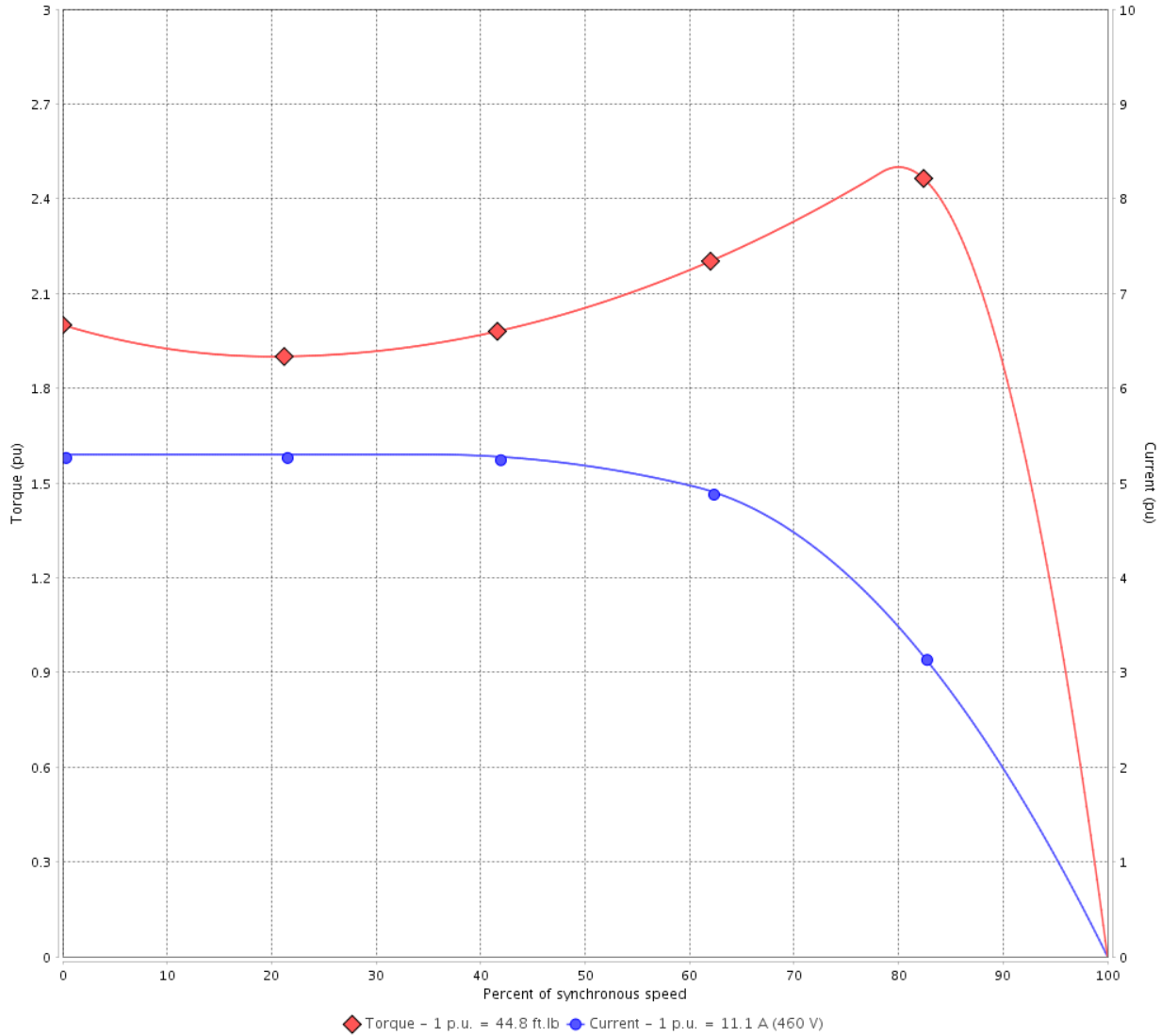
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 13025620

Catalog # : 00709ET3E256TC-W22

TORQUE AND CURRENT VS SPEED CURVE



Performance : 230/460 V 60 Hz 8P

Rated current	: 22.2/11.1 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)

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 2 / 36	Revision
Checked by				
Date	12/04/2022			

TORQUE AND CURRENT VS SPEED CURVE



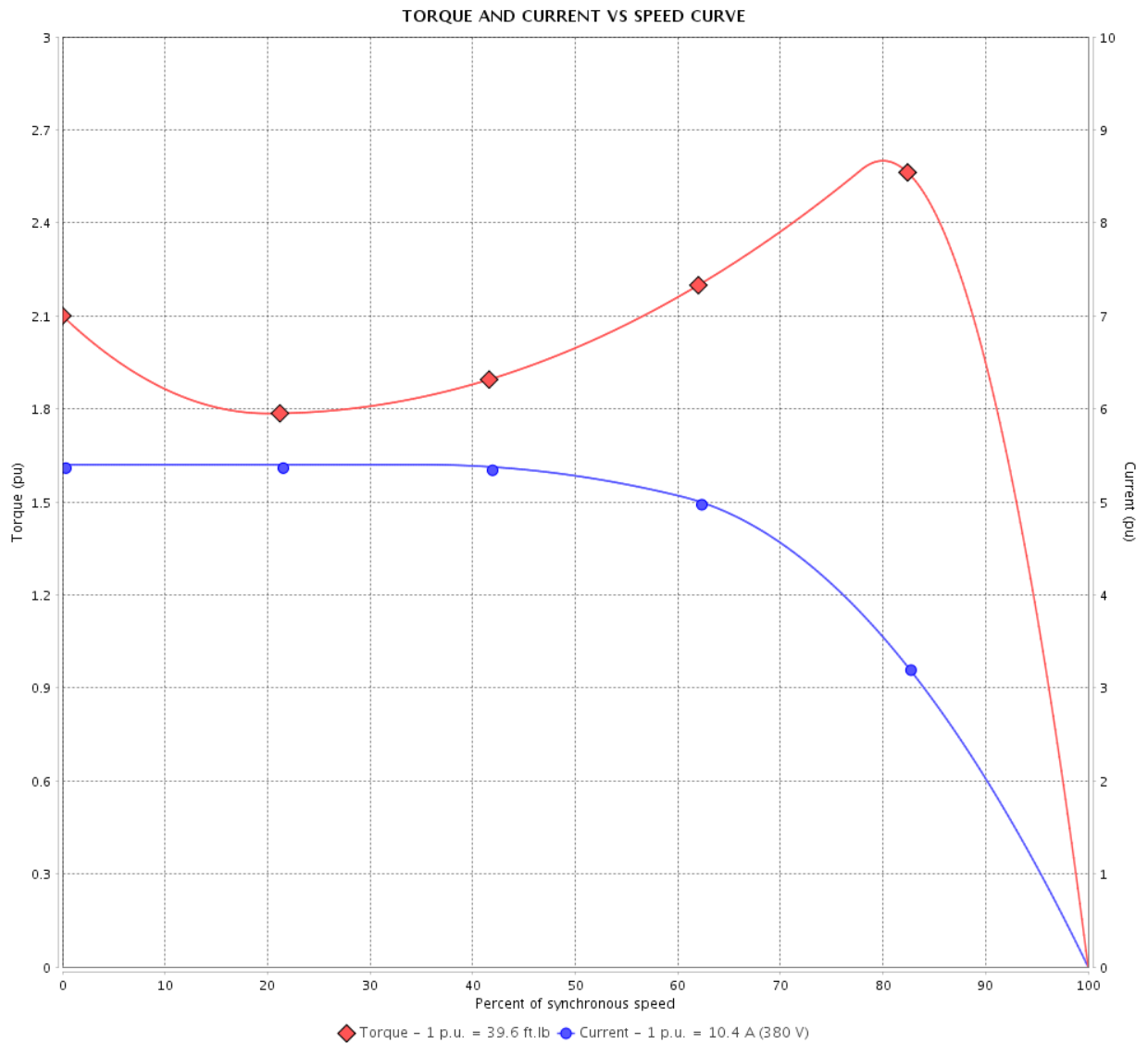
Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 13025620

Catalog # : 00709ET3E256TC-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)

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 3 / 36	Revision
Checked by				
Date	12/04/2022			

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



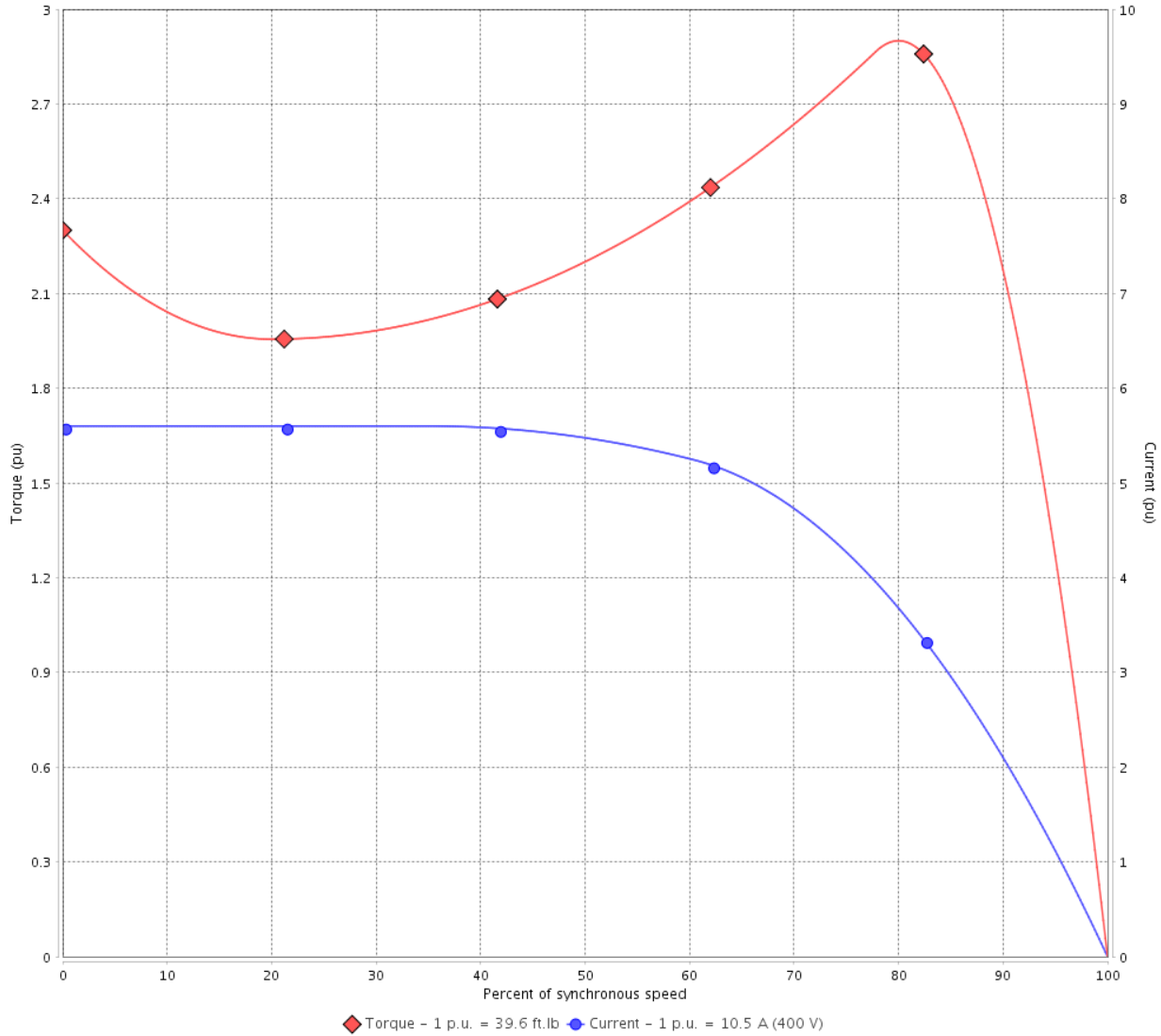
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 13025620

Catalog # : 00709ET3E256TC-W22

TORQUE AND CURRENT VS SPEED CURVE



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)

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 4 / 36	Revision
Checked by				
Date	12/04/2022			

TORQUE AND CURRENT VS SPEED CURVE



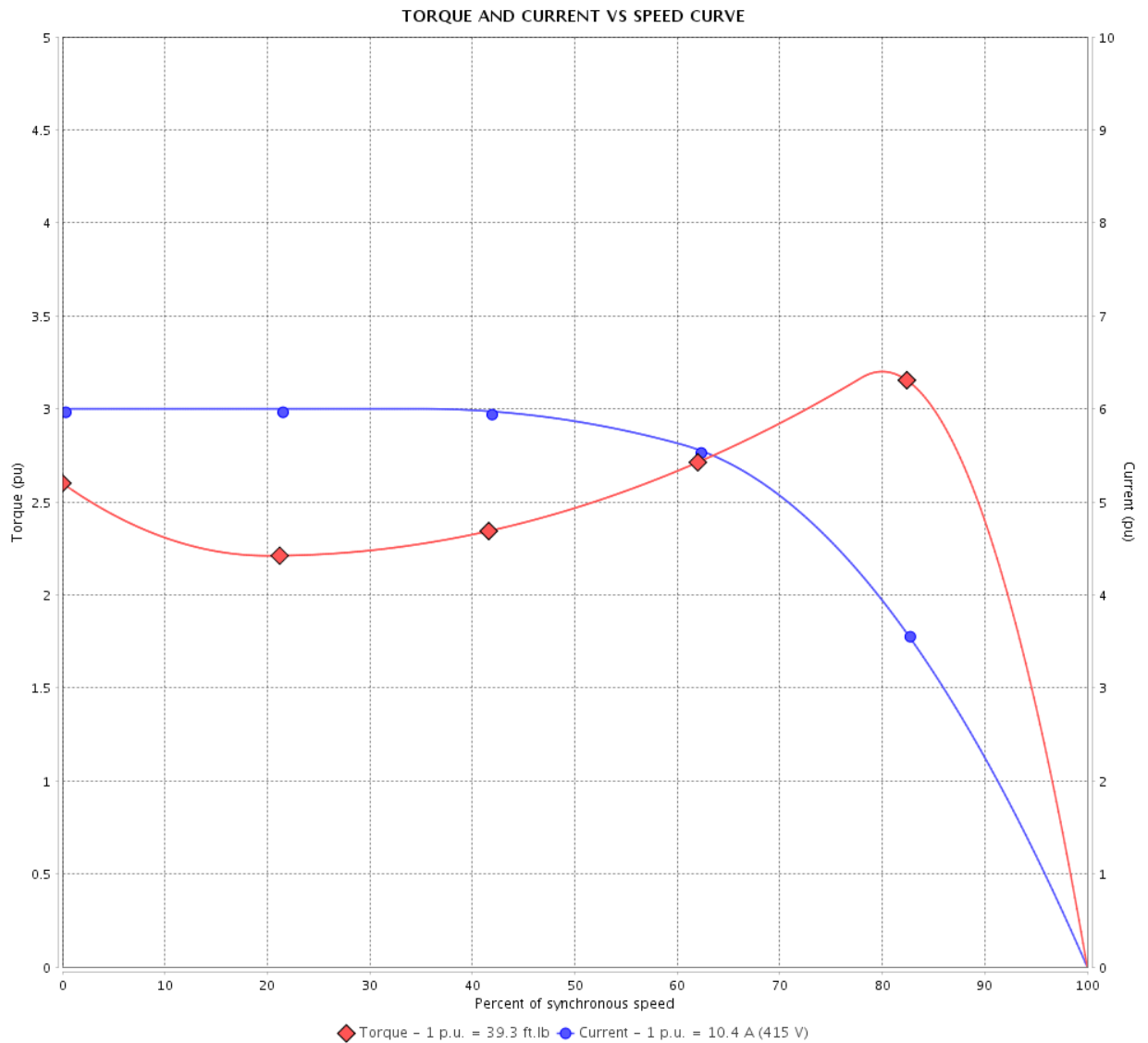
Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 13025620

Catalog # : 00709ET3E256TC-W22



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)

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 5 / 36	Revision
Checked by				
Date	12/04/2022			

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



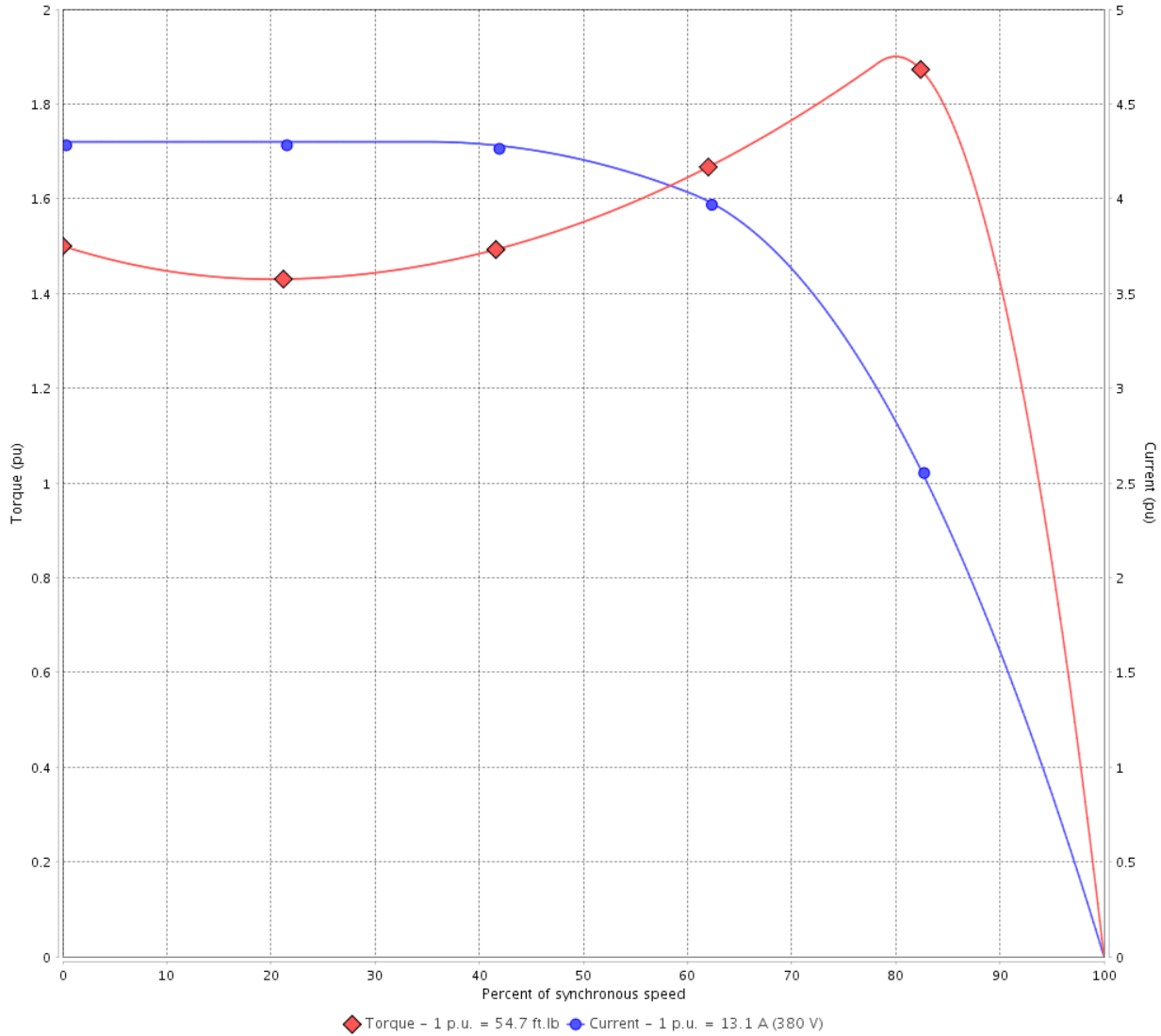
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 13025620

Catalog # : 00709ET3E256TC-W22

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)

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 6 / 36	Revision
Checked by				
Date	12/04/2022			

TORQUE AND CURRENT VS SPEED CURVE



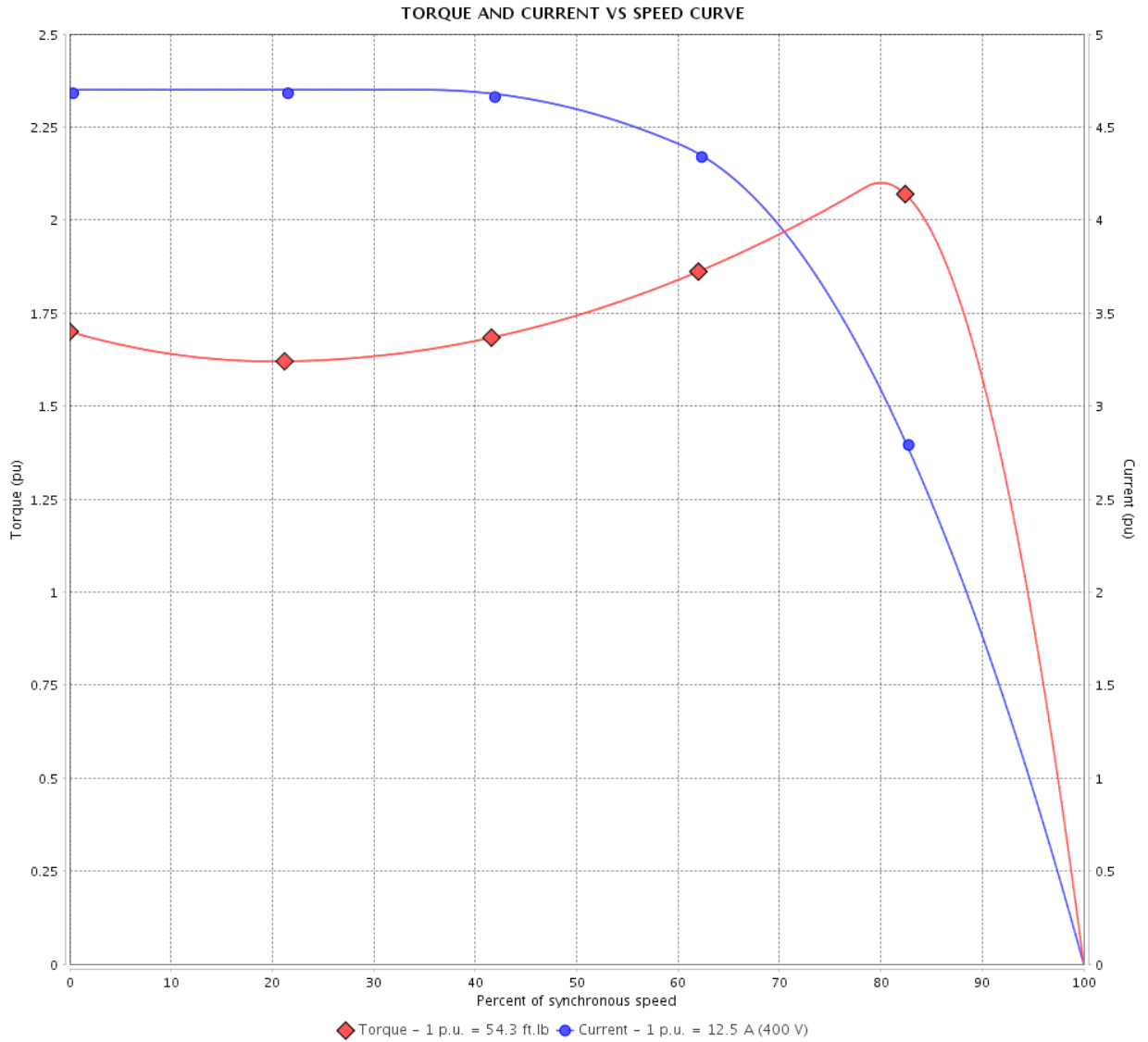
Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 13025620

Catalog # : 00709ET3E256TC-W22



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)

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 7 / 36	Revision
Checked by				
Date	12/04/2022			

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



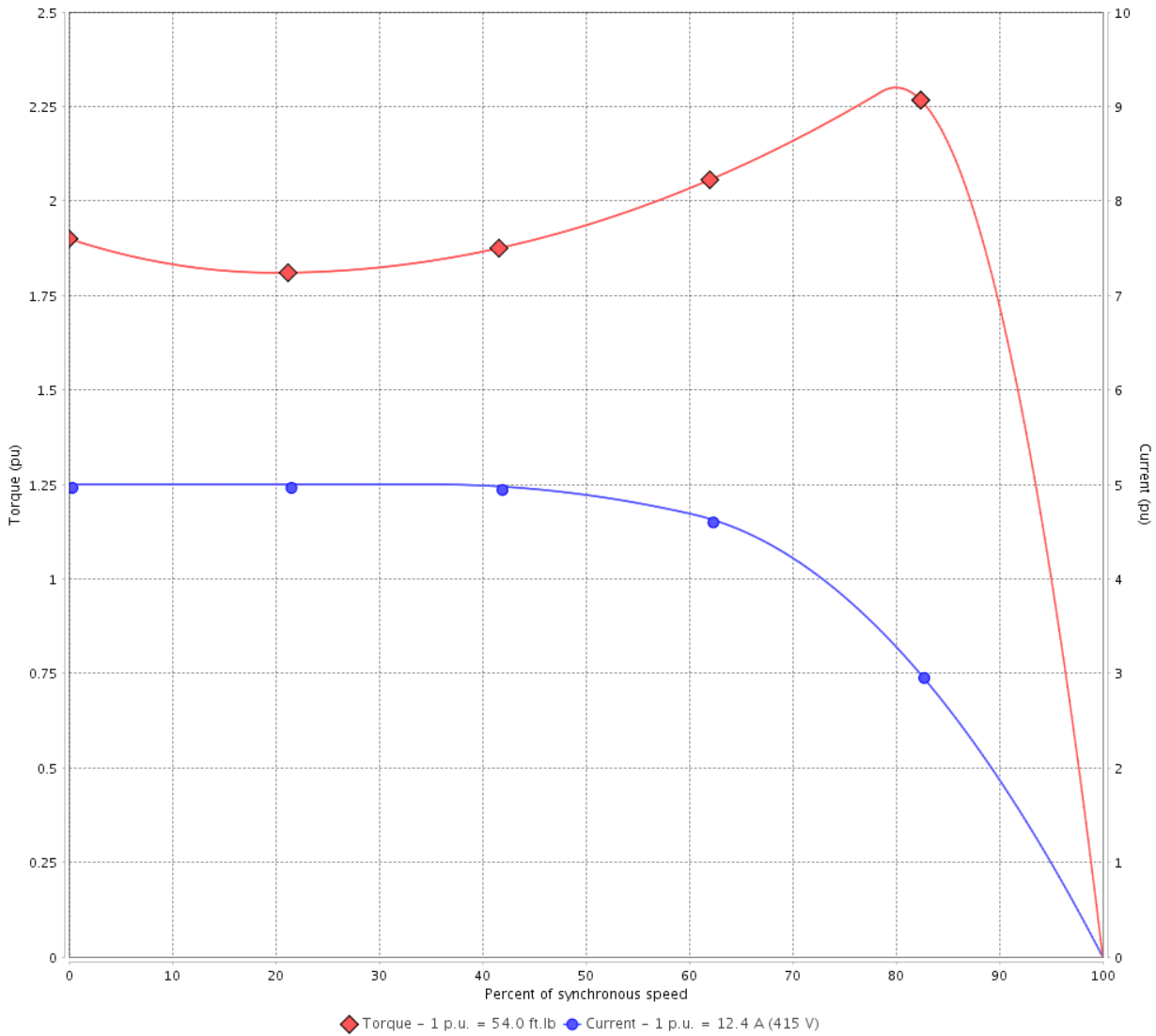
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 13025620

Catalog # : 00709ET3E256TC-W22

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)

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 8 / 36	Revision
Checked by				
Date	12/04/2022			

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

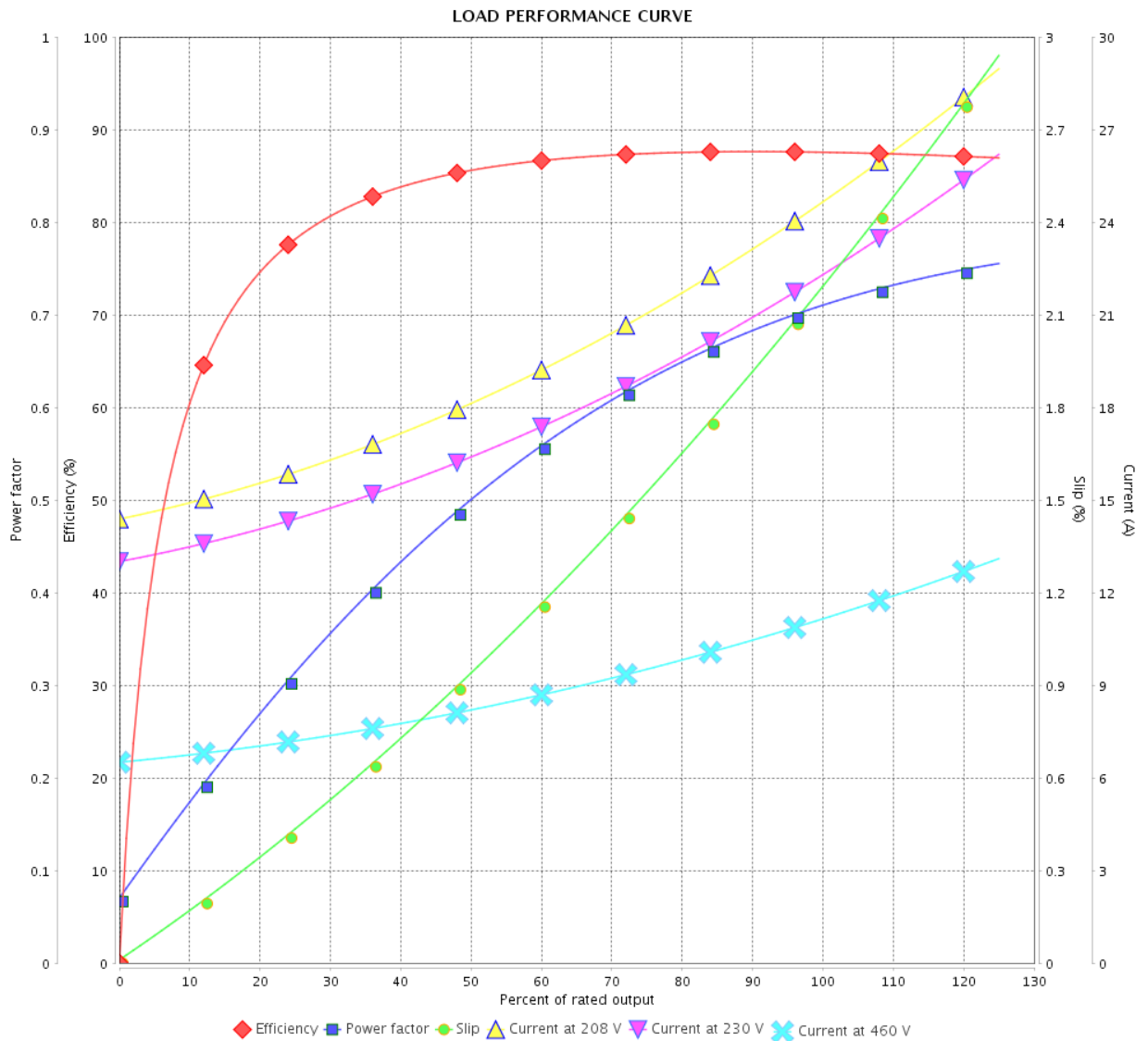


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 13025620

Catalog # : 00709ET3E256TC-W22



Performance : 230/460 V 60 Hz 8P

Rated current : 22.2/11.1 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		9 / 36		
Date		12/04/2022		

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



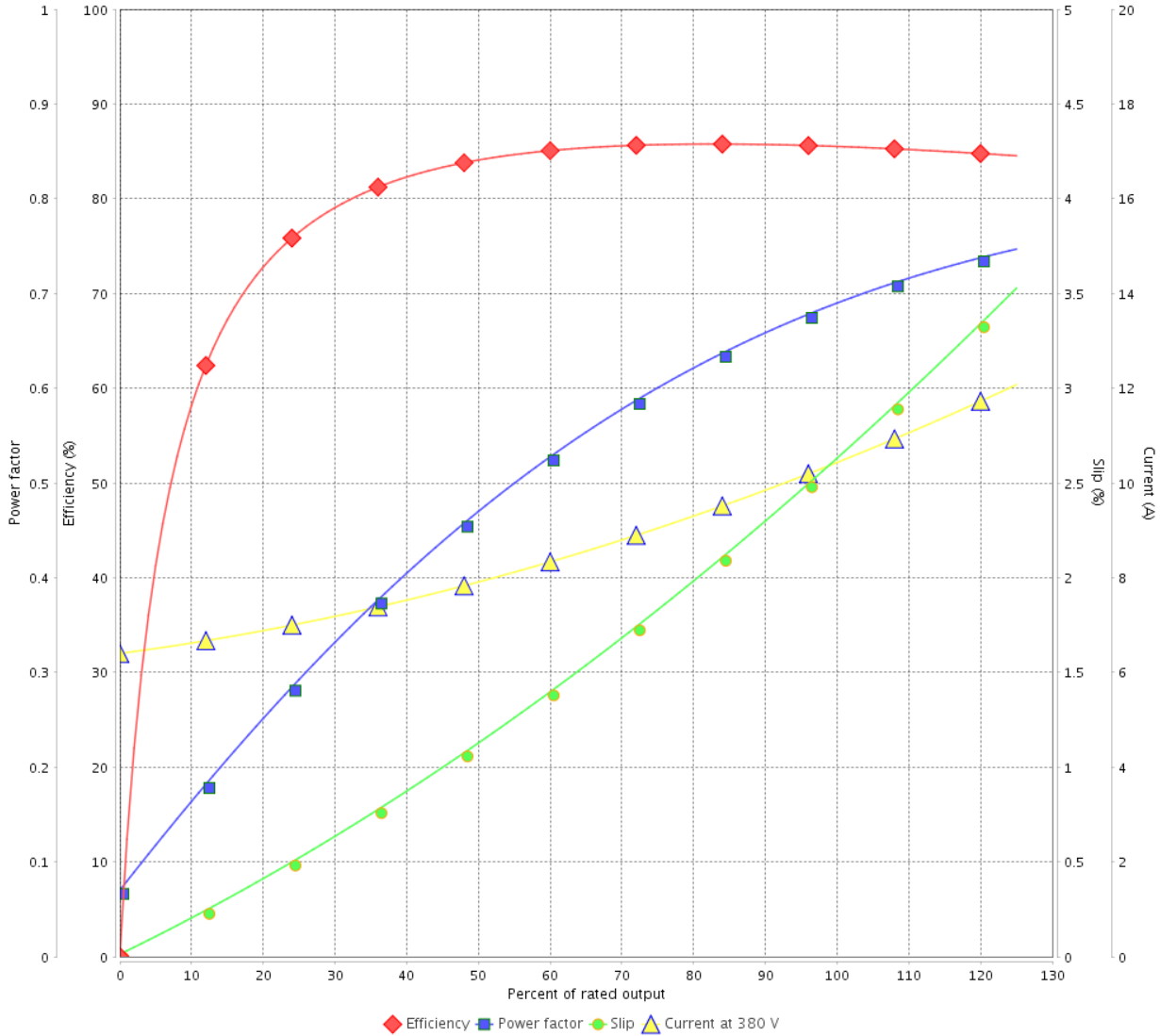
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 13025620

Catalog # : 00709ET3E256TC-W22

LOAD PERFORMANCE CURVE



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

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 10 / 36	Revision
Checked by				
Date	12/04/2022			

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

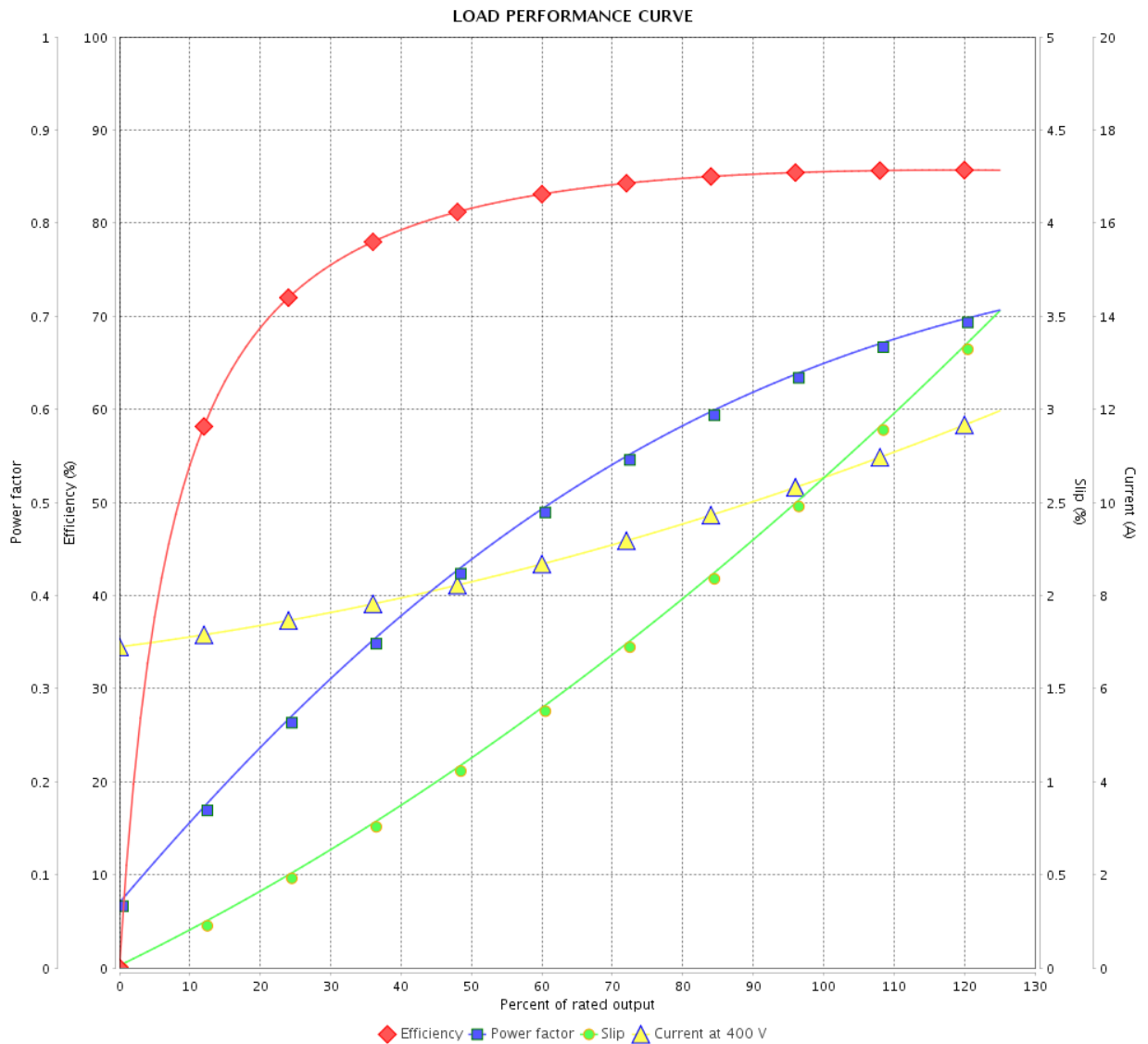


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 13025620

Catalog # : 00709ET3E256TC-W22



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			11 / 36	
Date	12/04/2022			

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



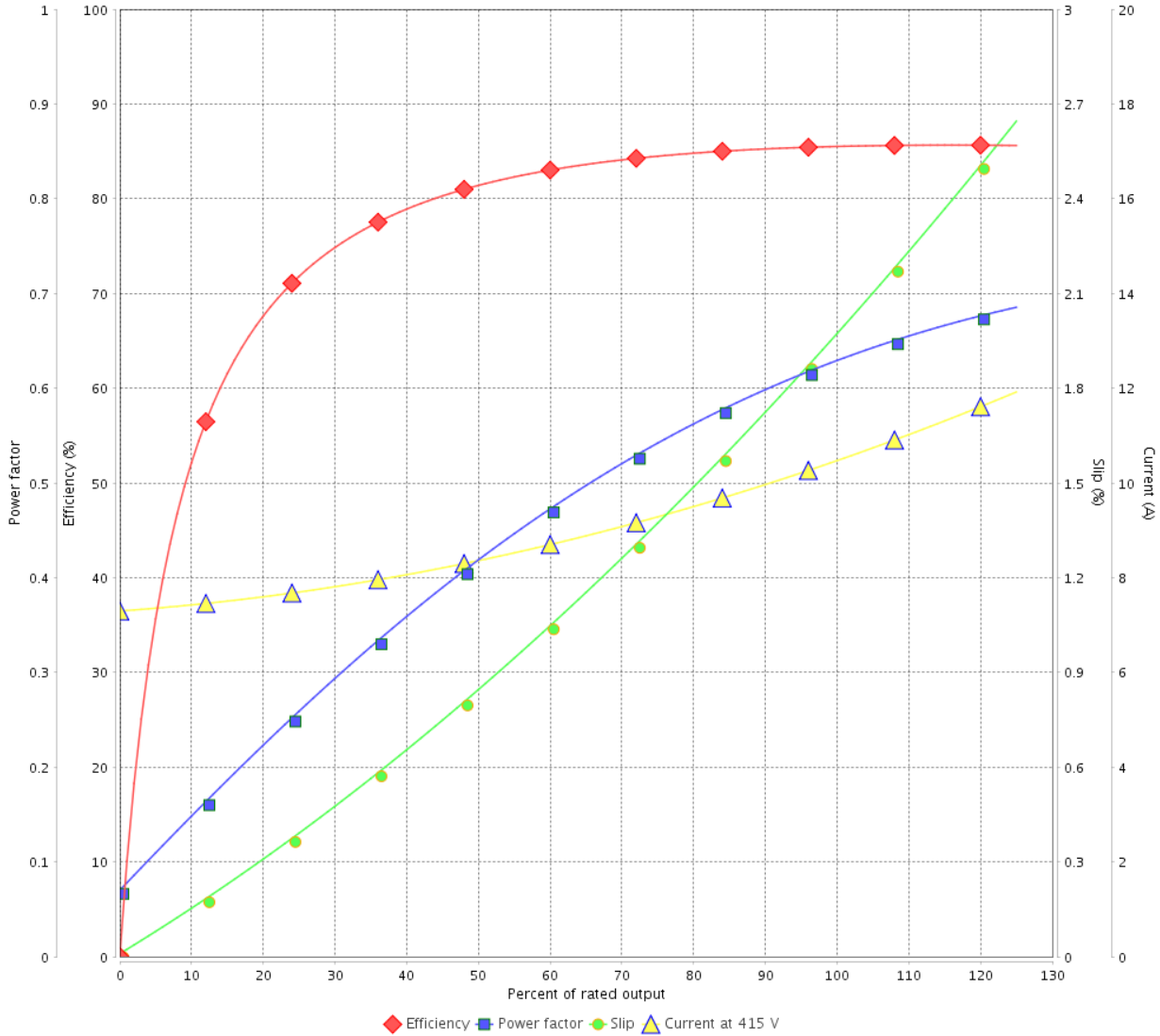
Customer : _____

Product line : NEMA Premium Efficiency Three-Phase

Product code : 13025620

Catalog # : 00709ET3E256TC-W22

LOAD PERFORMANCE CURVE



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

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

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

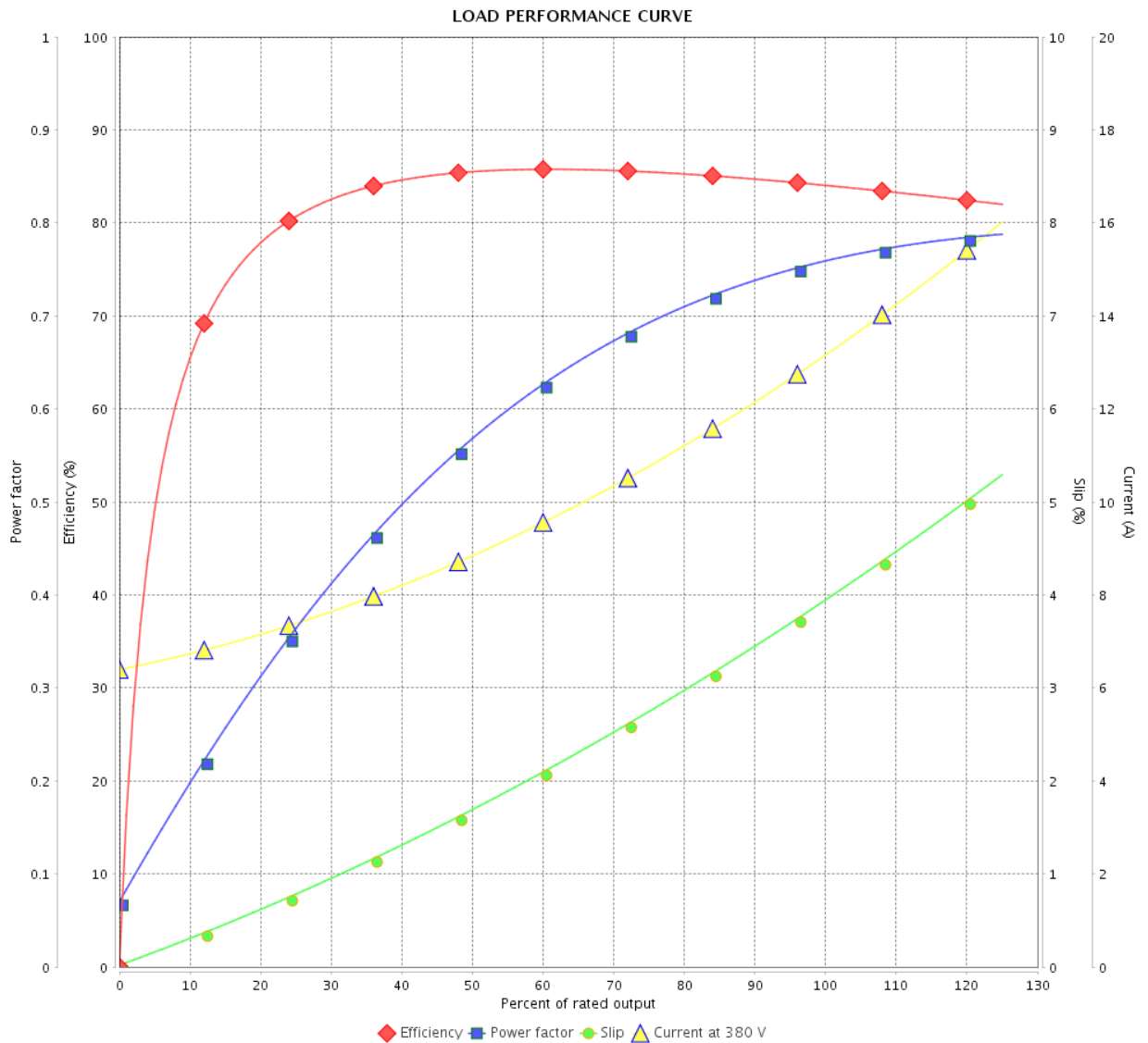


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 13025620

Catalog # : 00709ET3E256TC-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

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page	Revision
Checked by			13 / 36	
Date	12/04/2022			

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



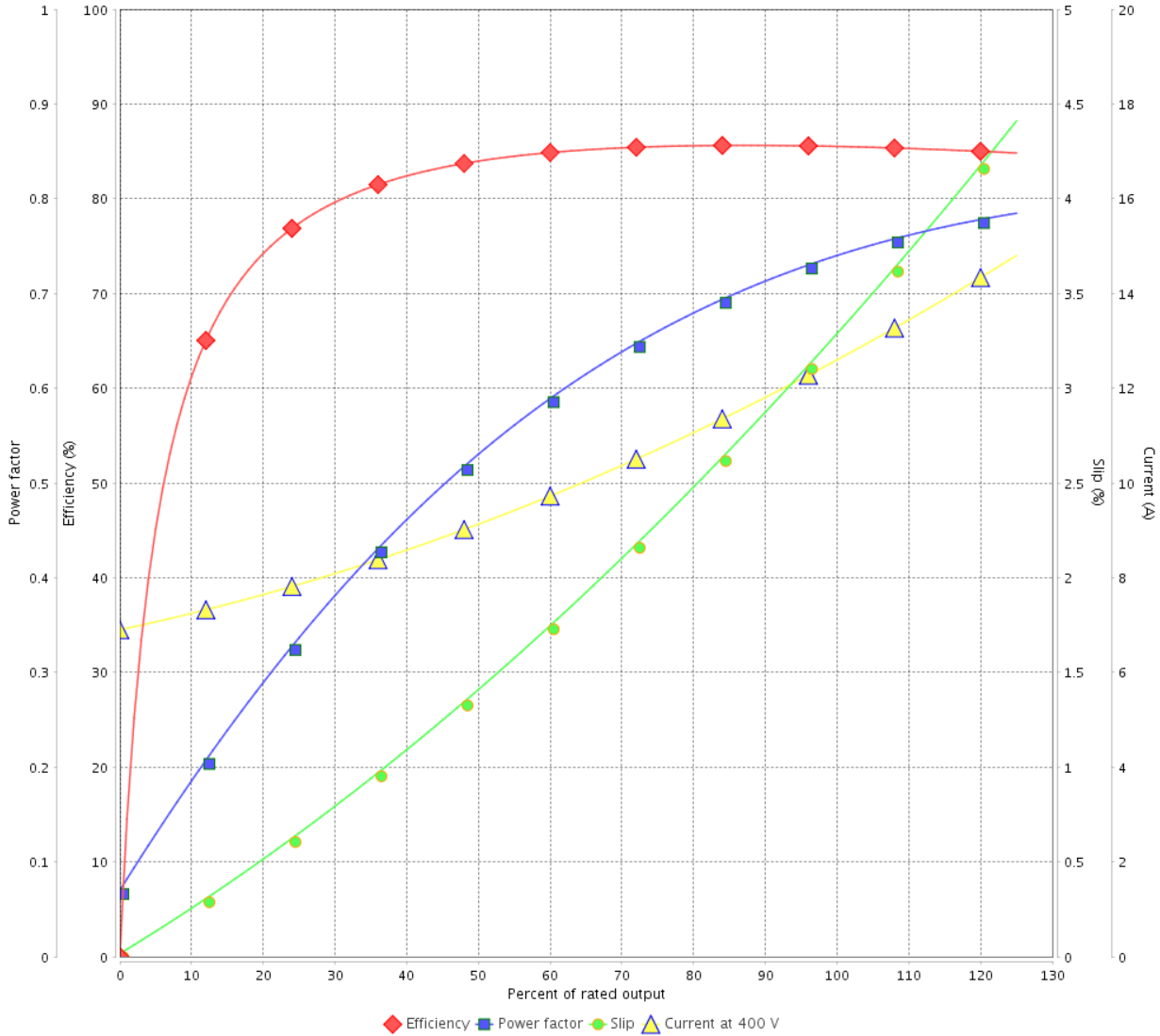
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 13025620

Catalog # : 00709ET3E256TC-W22

LOAD PERFORMANCE CURVE



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 14 / 36	Revision
Checked by				
Date	12/04/2022			

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

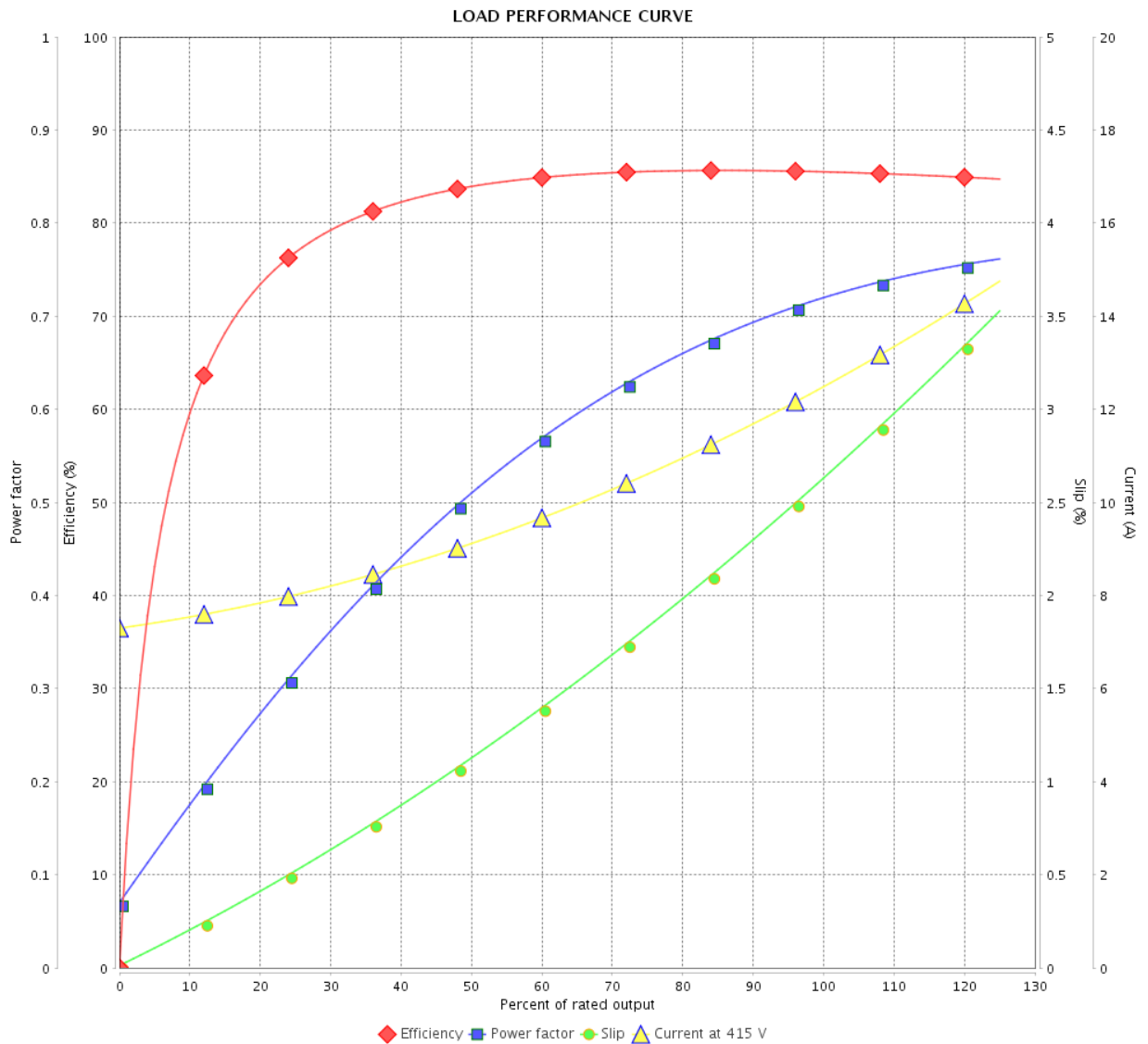


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 13025620

Catalog # : 00709ET3E256TC-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

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page	Revision
Checked by			15 / 36	
Date	12/04/2022			

THERMAL LIMIT CURVE



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase
Product code : 13025620
Catalog # : 00709ET3E256TC-W22

Performance : 230/460 V 60 Hz 8P

Rated current	: 22.2/11.1 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

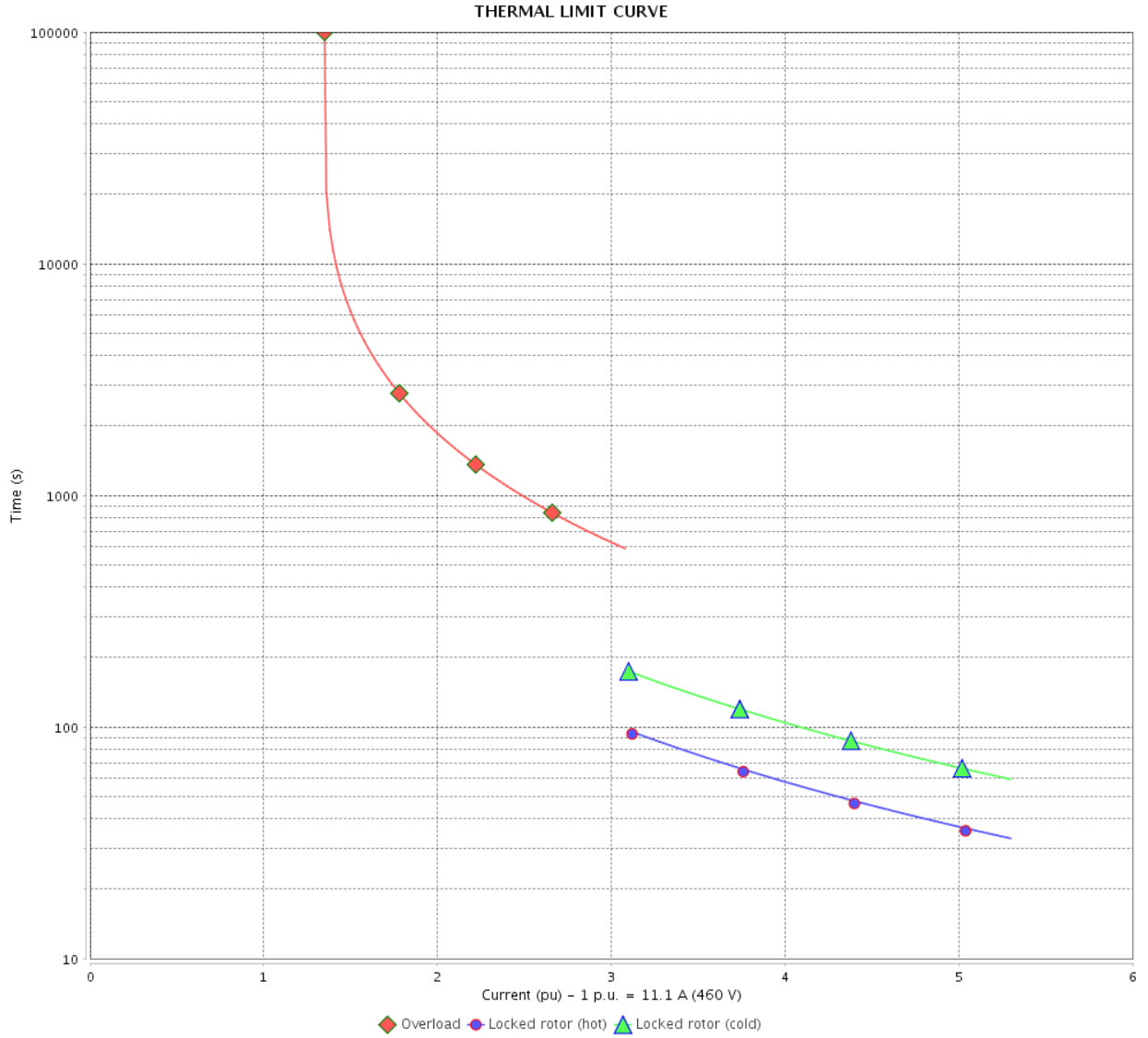
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	12/04/2022		16 / 36	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page		Revision
Checked by		17 / 36		
Date		12/04/2022		

THERMAL LIMIT CURVE



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase
Product code : 13025620
Catalog # : 00709ET3E256TC-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

Heating constant

Cooling constant

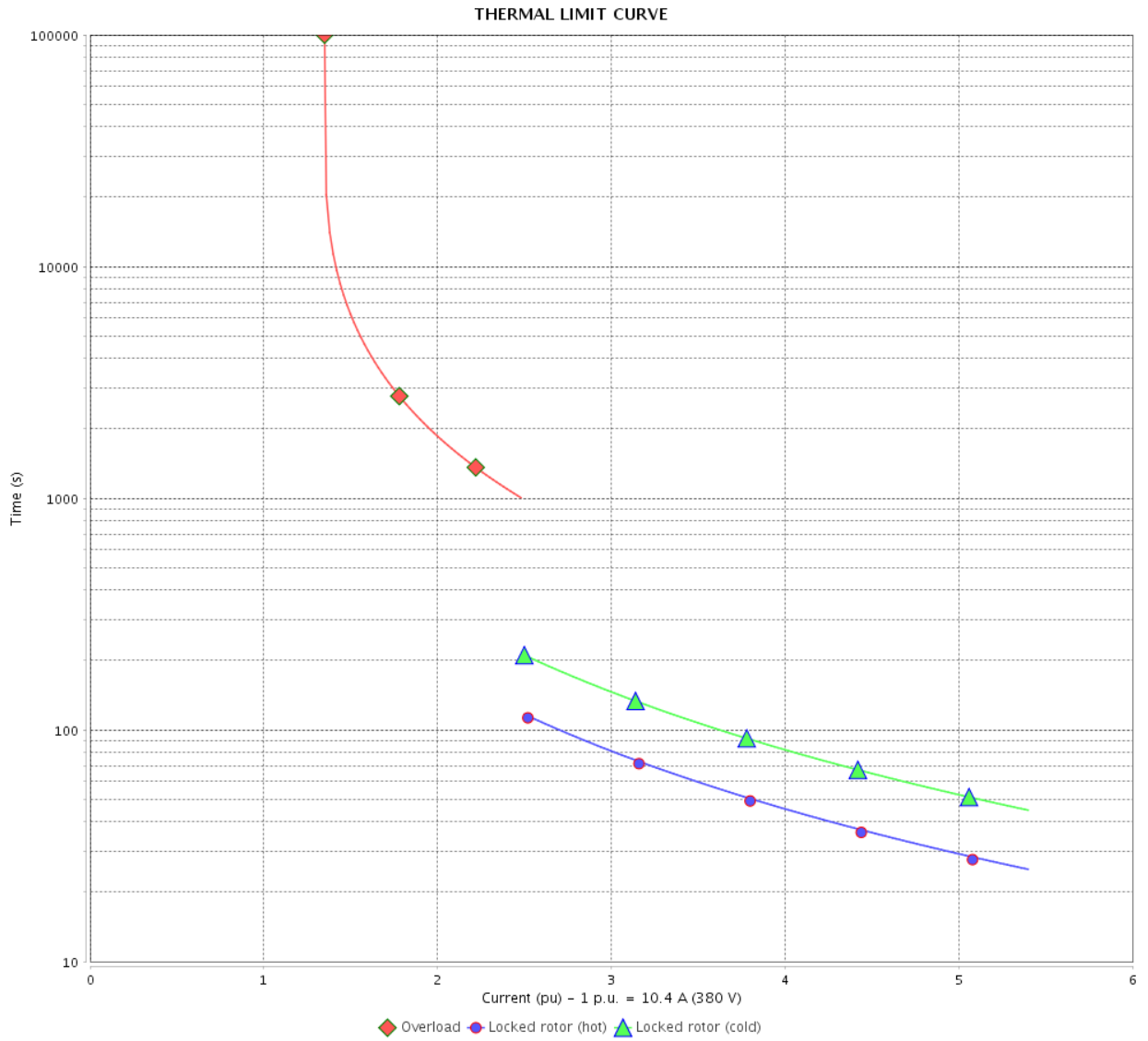
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	12/04/2022		18 / 36	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page		Revision
Checked by		19 / 36		
Date		12/04/2022		

THERMAL LIMIT CURVE



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase
 Product code : 13025620
 Catalog # : 00709ET3E256TC-W22

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

Heating constant

Cooling constant

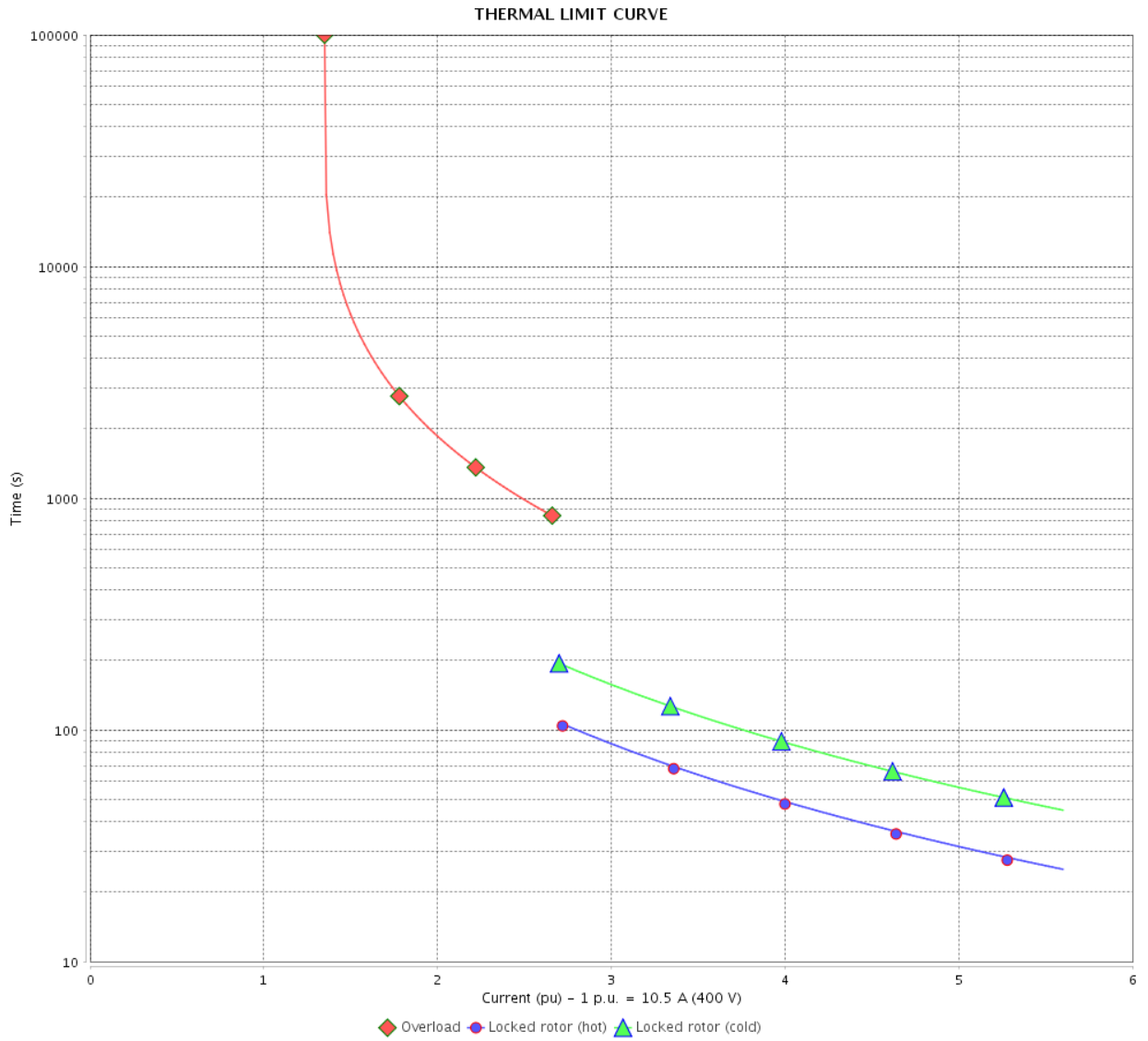
Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 20 / 36	Revision
Checked by				
Date	12/04/2022			

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page		Revision
Checked by		21 / 36		
Date		12/04/2022		

THERMAL LIMIT CURVE



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase
Product code : 13025620
Catalog # : 00709ET3E256TC-W22

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

Heating constant

Cooling constant

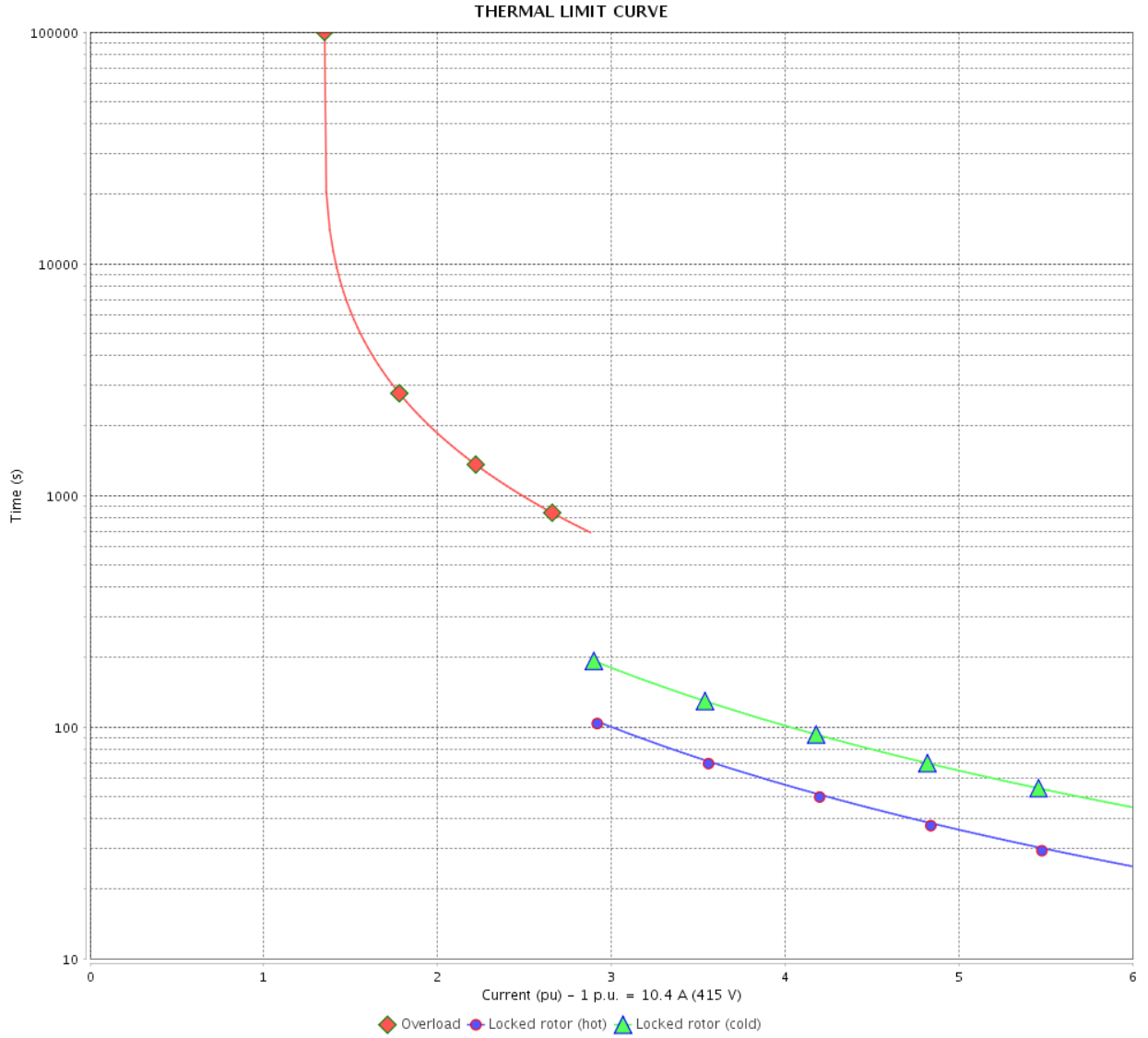
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	12/04/2022		22 / 36	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 23 / 36		Revision
Checked by				
Date				

THERMAL LIMIT CURVE



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase
Product code : 13025620
Catalog # : 00709ET3E256TC-W22

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

Heating constant

Cooling constant

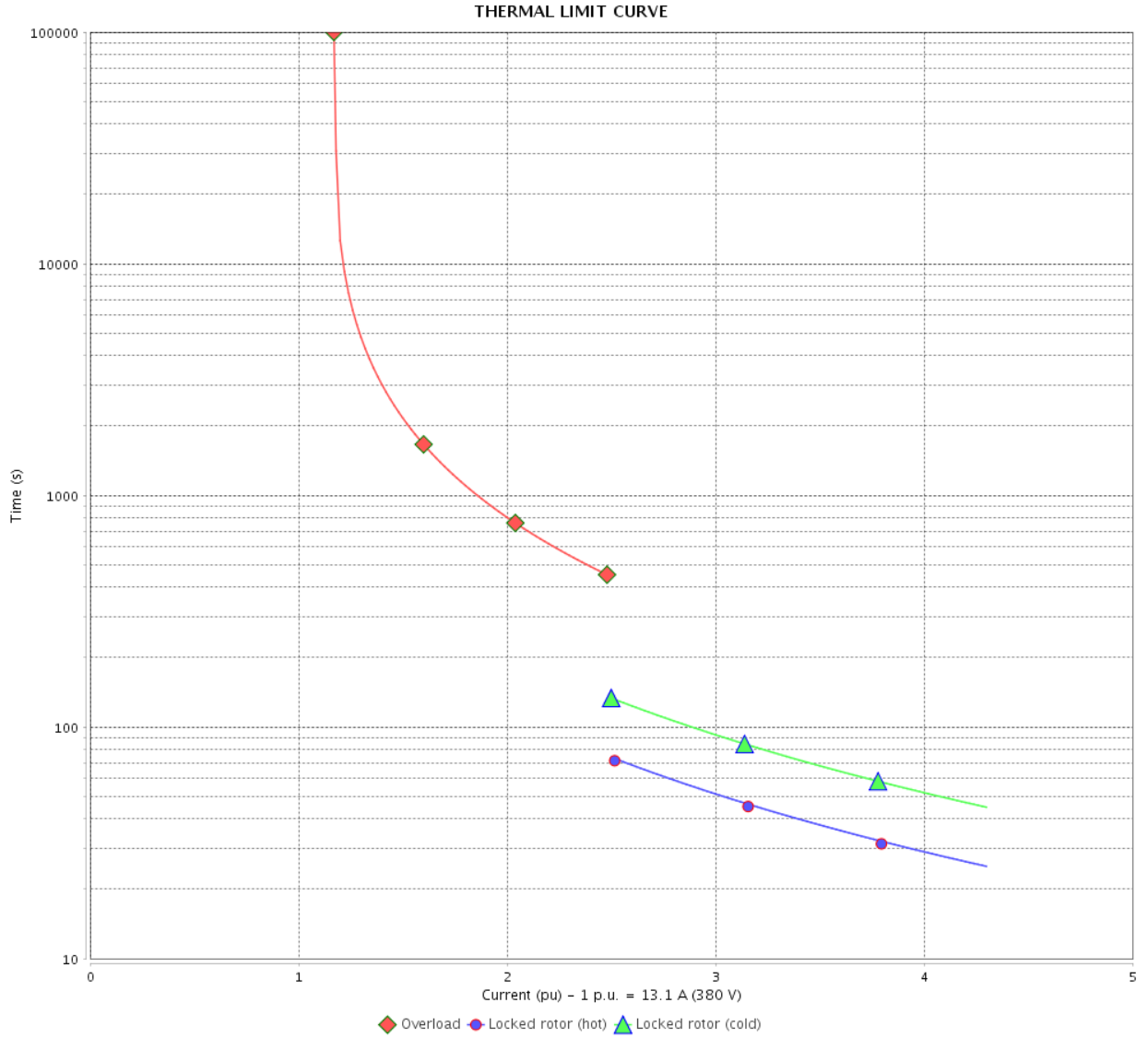
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	12/04/2022		24 / 36	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 25 / 36		Revision
Checked by				
Date				

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase
Product code : 13025620
Catalog # : 00709ET3E256TC-W22

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

Heating constant

Cooling constant

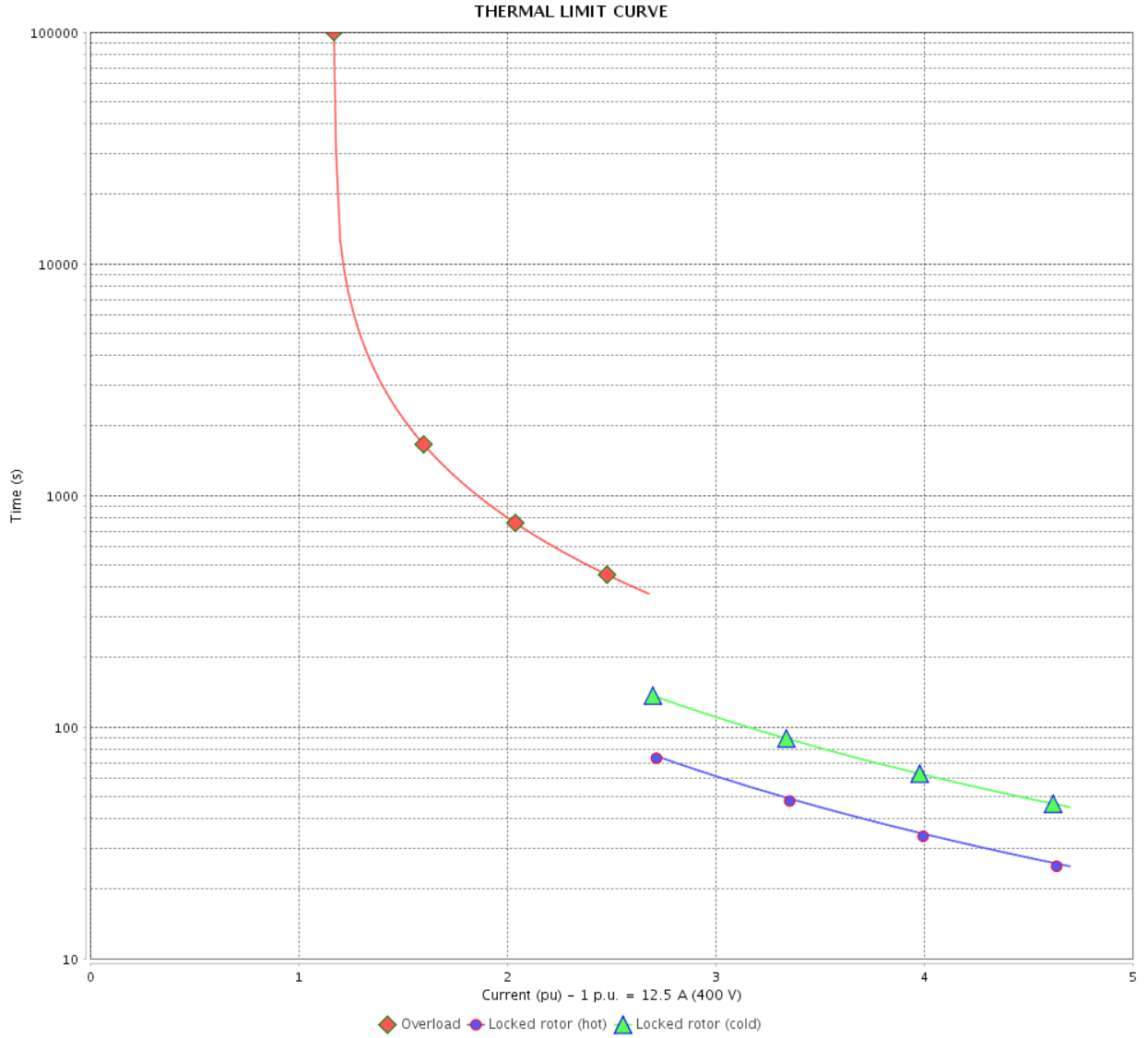
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	12/04/2022		26 / 36	

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 : 13025620
 Catalog # : 00709ET3E256TC-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

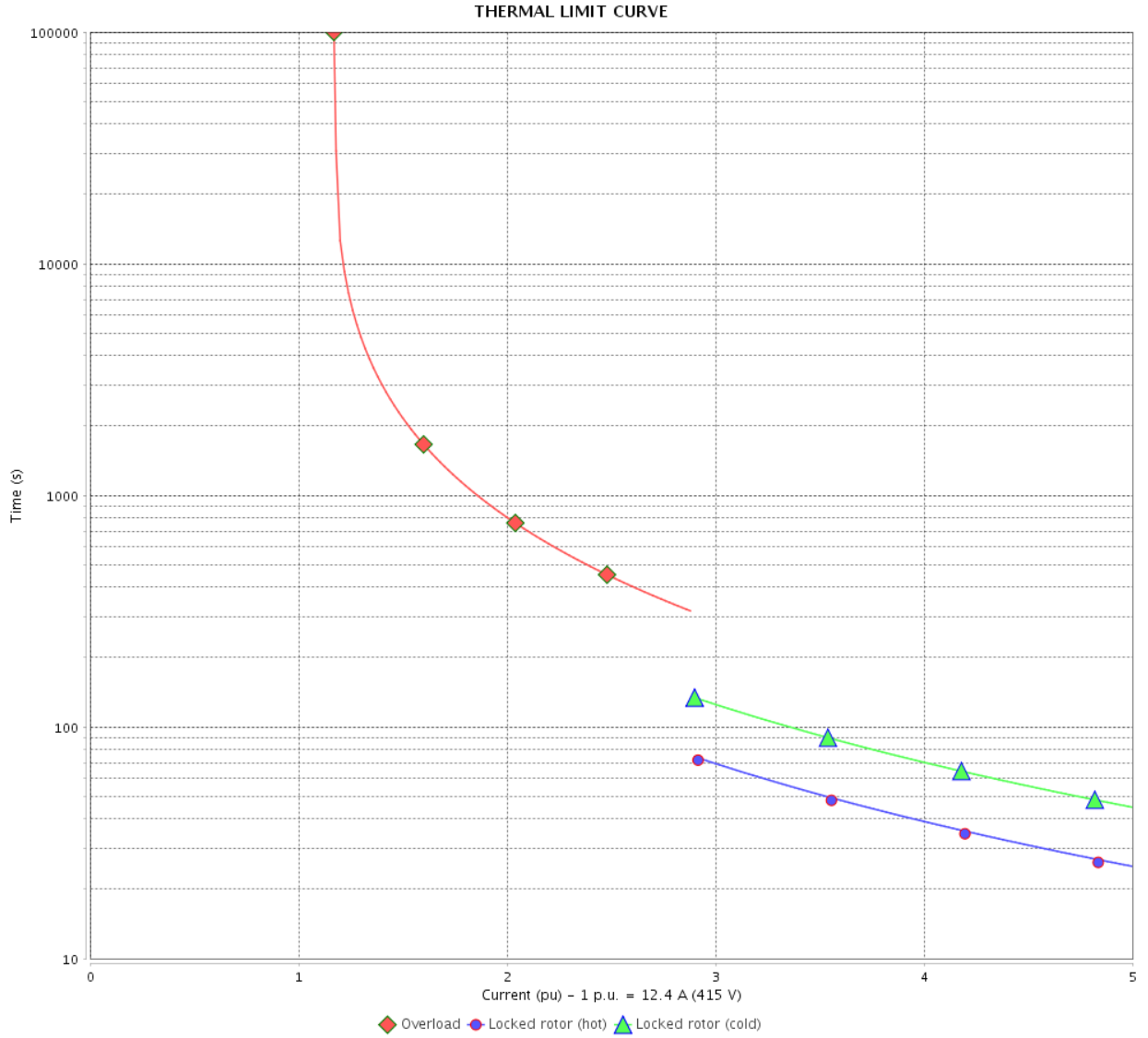
Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 28 / 36	Revision
Checked by				
Date	12/04/2022			

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page		Revision
Checked by		29 / 36		
Date		12/04/2022		

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



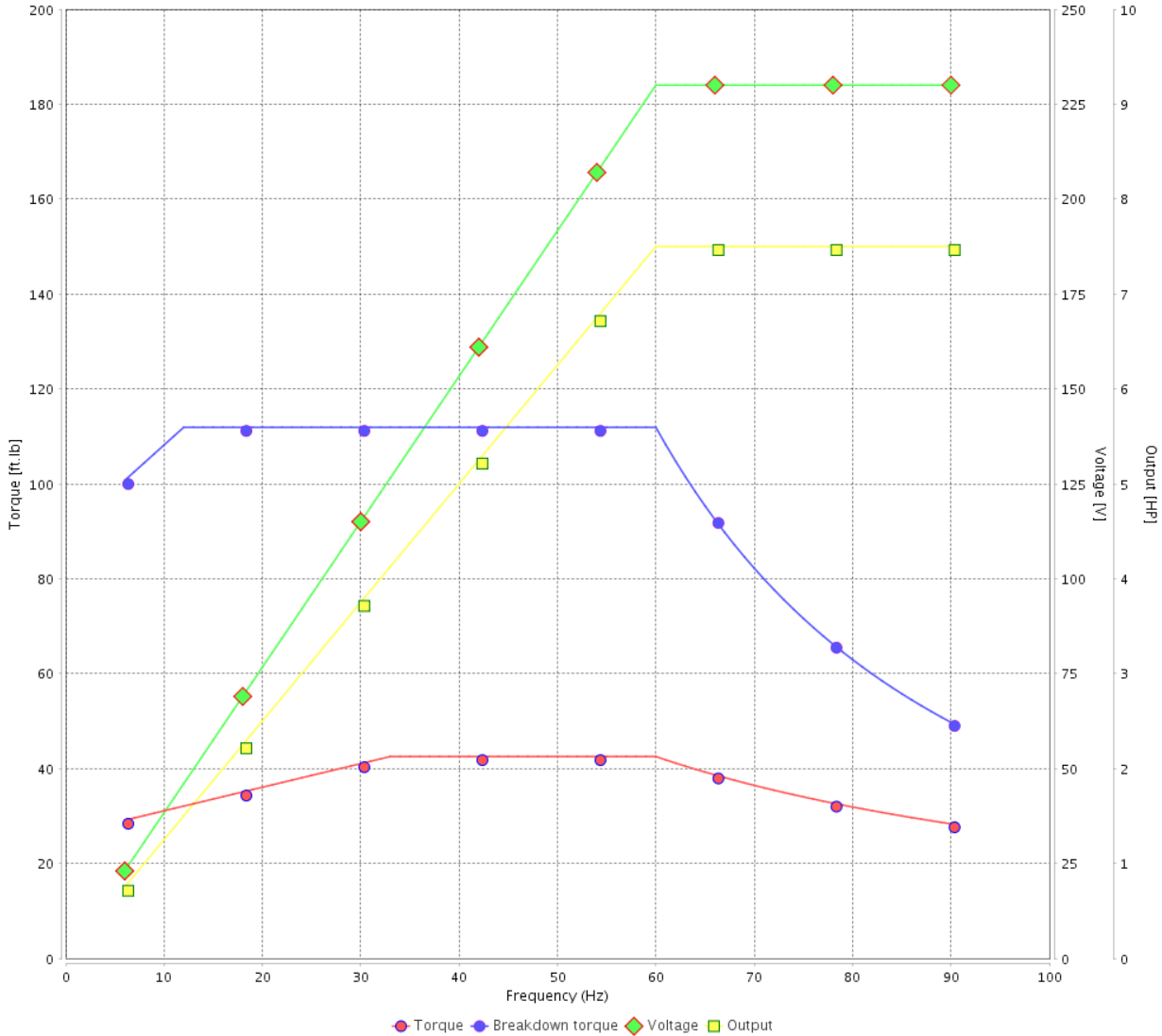
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 13025620

Catalog # : 00709ET3E256TC-W22

VFD OPERATION CURVE



Performance : 230/460 V 60 Hz 8P

Rated current : 22.2/11.1 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 30 / 36	Revision
Checked by				
Date	12/04/2022			

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

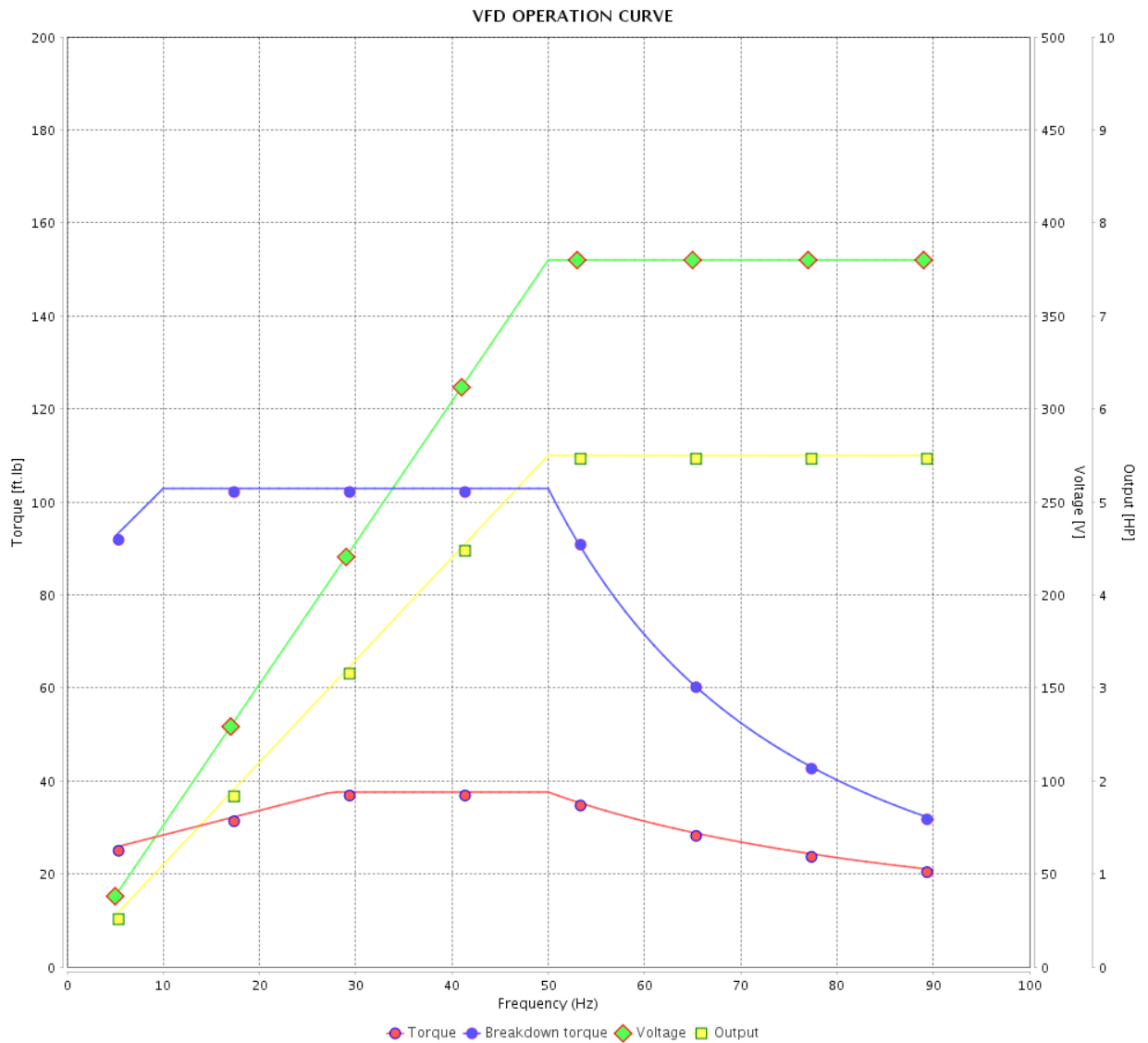


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 13025620

Catalog # : 00709ET3E256TC-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

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 31 / 36	Revision
Checked by				
Date	12/04/2022			

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



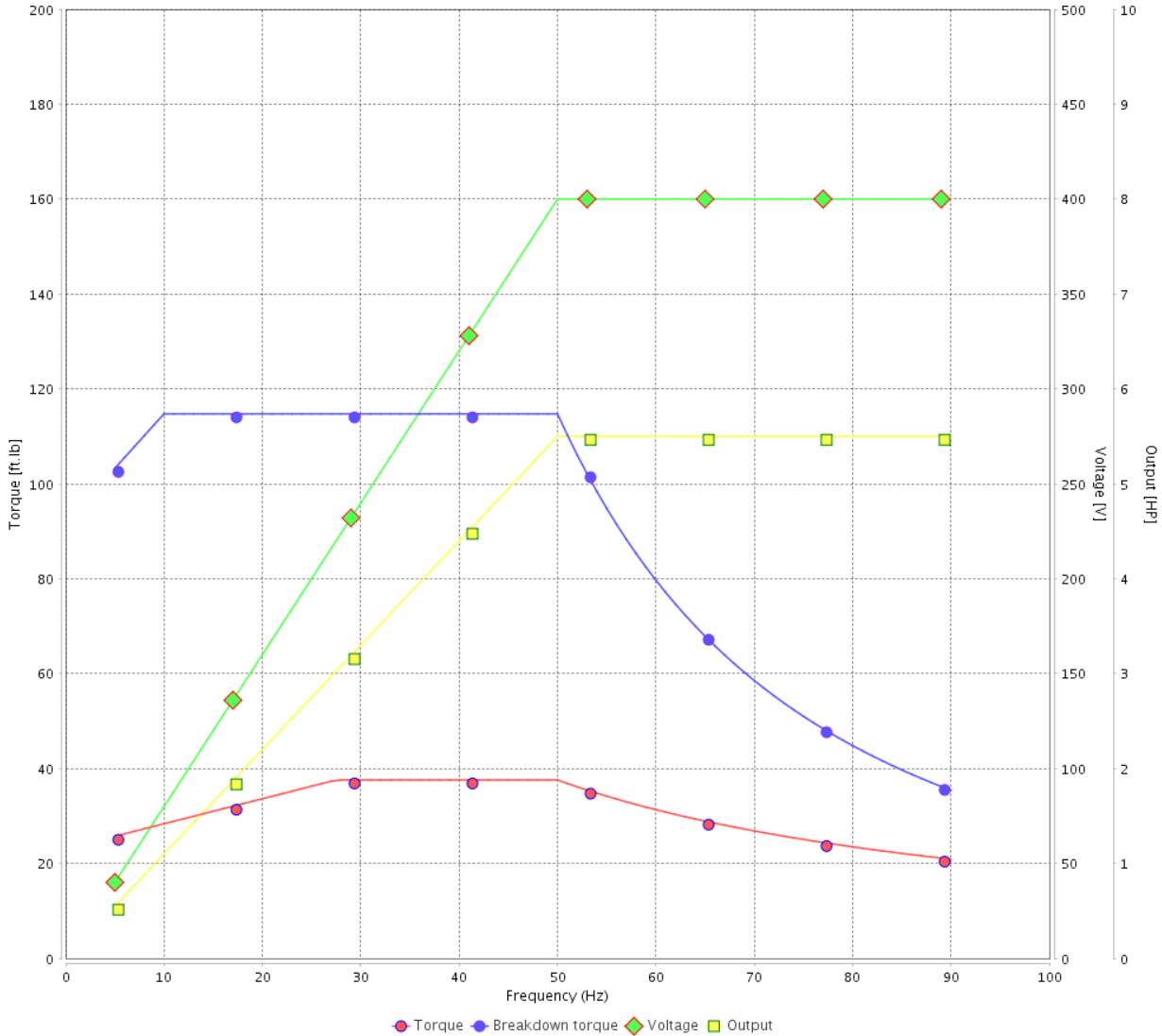
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 13025620

Catalog # : 00709ET3E256TC-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 32 / 36	Revision
Checked by				
Date	12/04/2022			

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

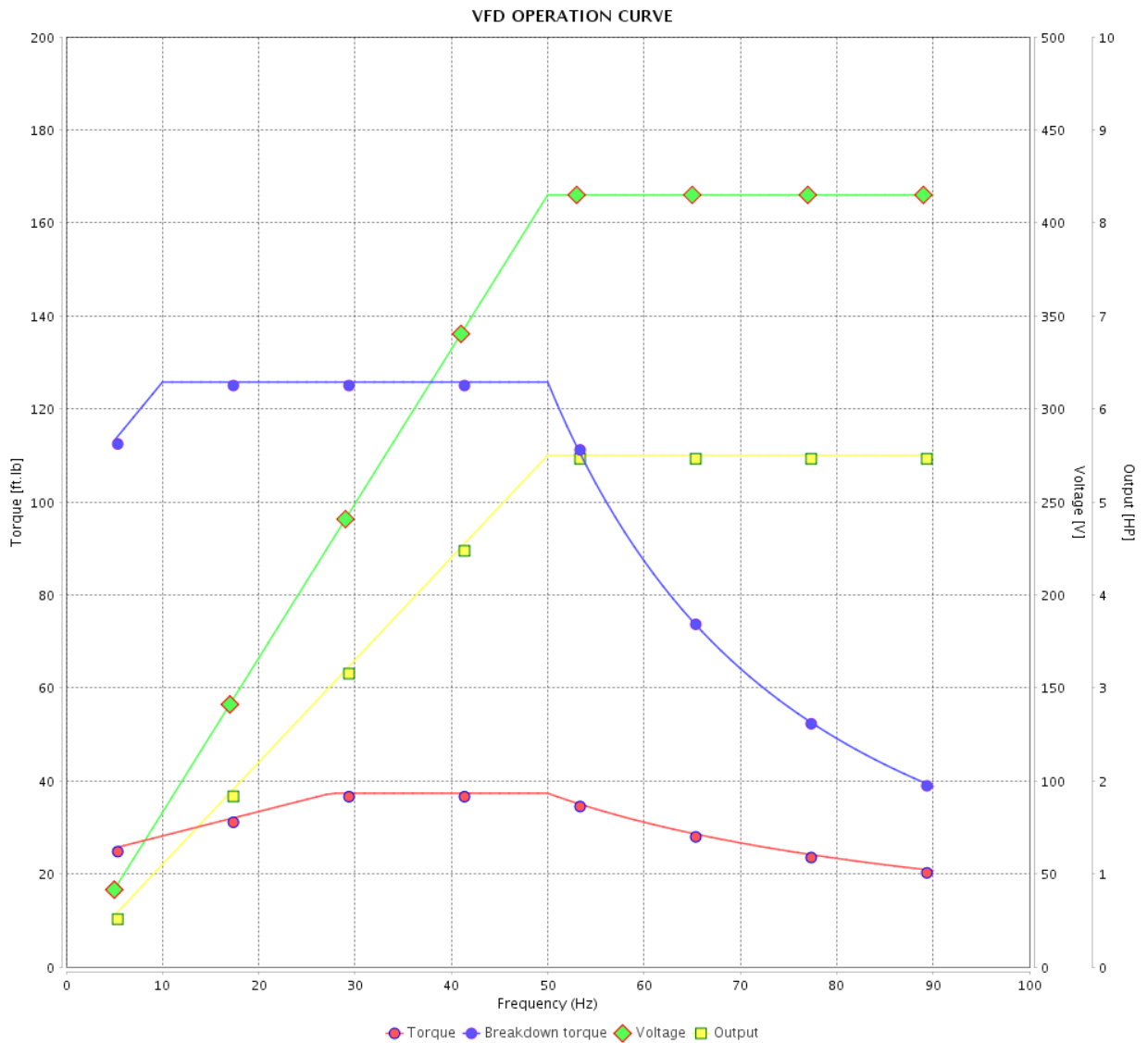


Customer : _____

Product line : NEMA Premium Efficiency Three-Phase

Product code : 13025620

Catalog # : 00709ET3E256TC-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

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page		Revision
Checked by		33 / 36		
Date	12/04/2022			

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



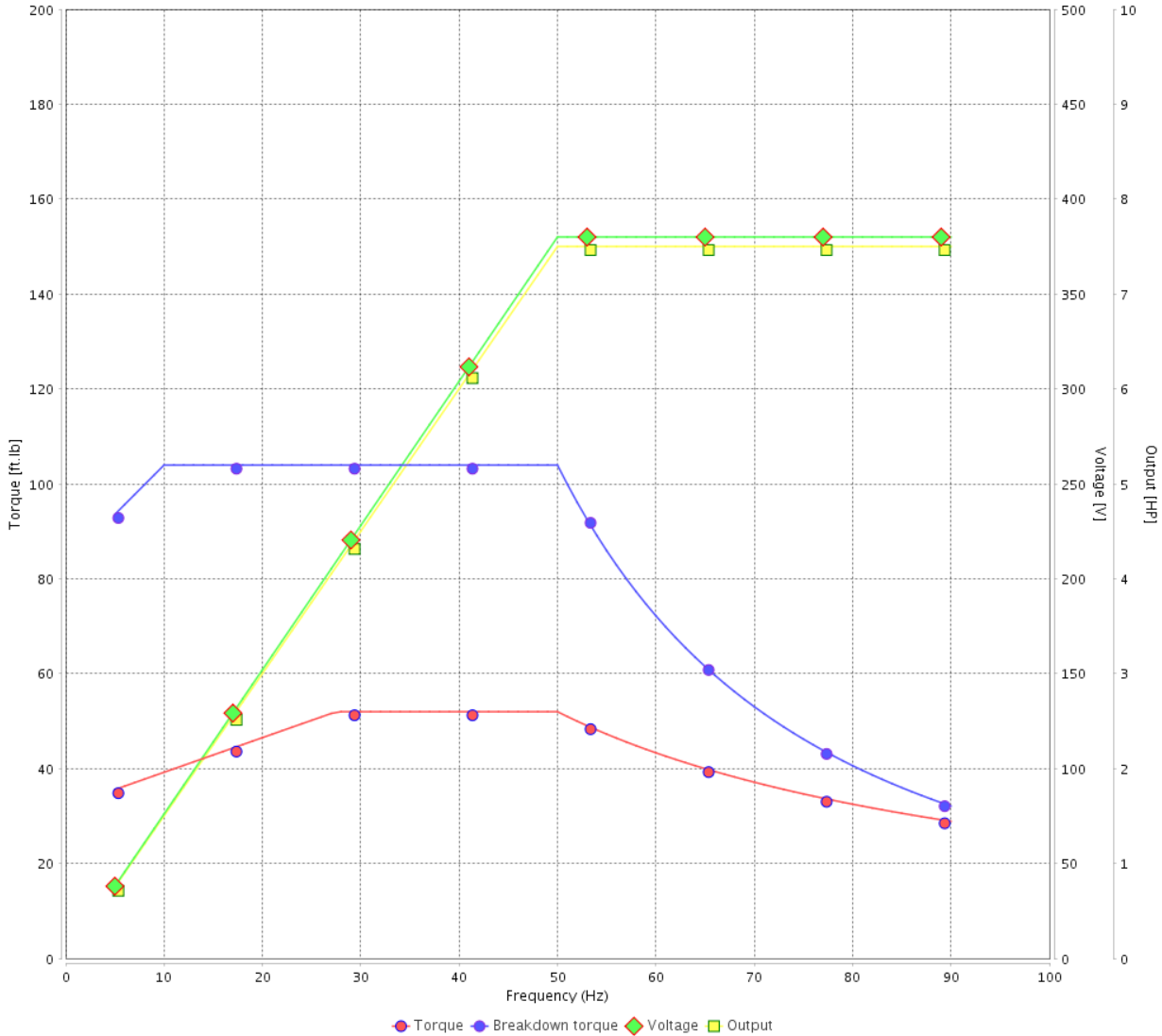
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 13025620

Catalog # : 00709ET3E256TC-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
Checked by				
Date	12/04/2022			

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

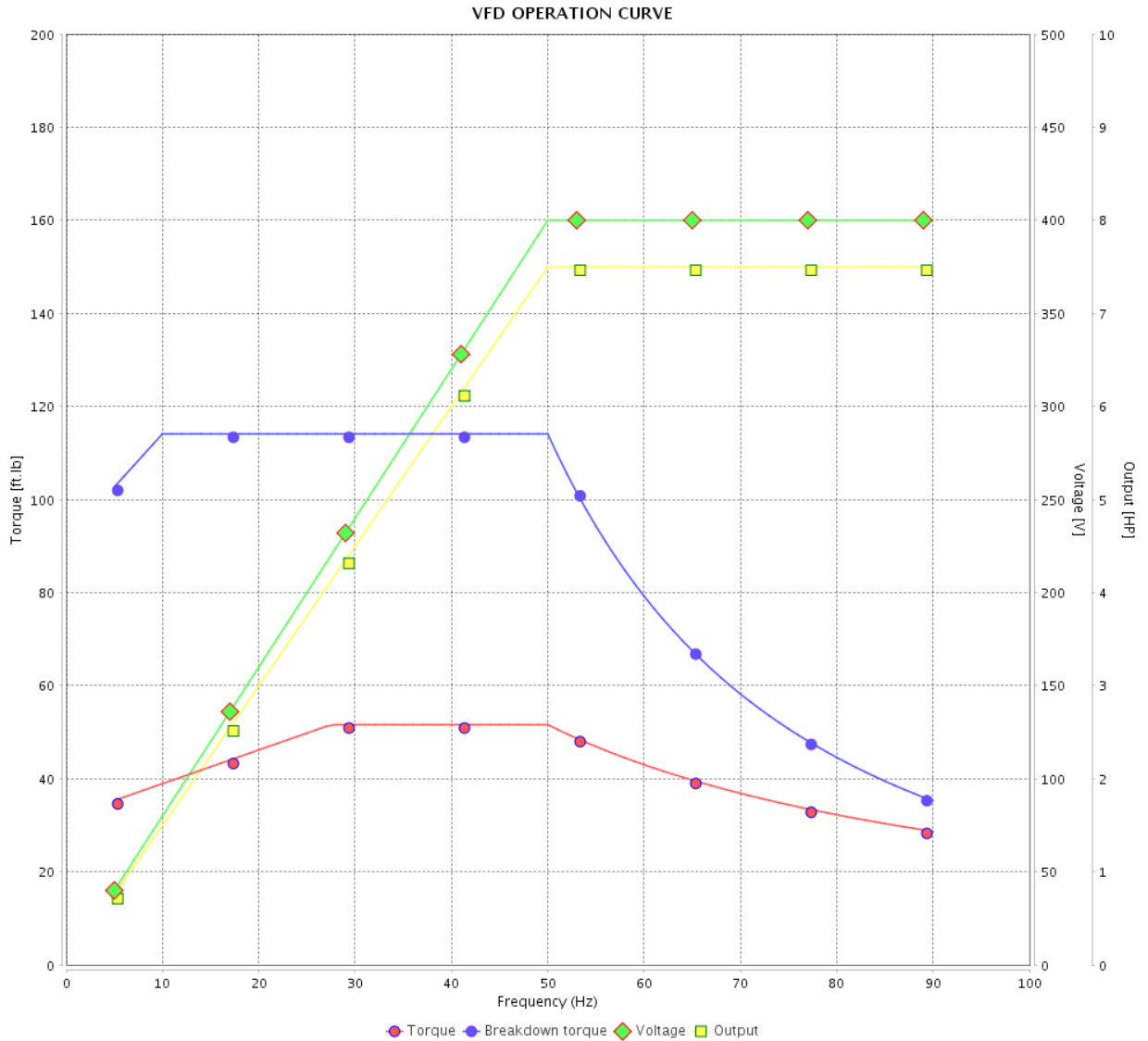


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 13025620

Catalog # : 00709ET3E256TC-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



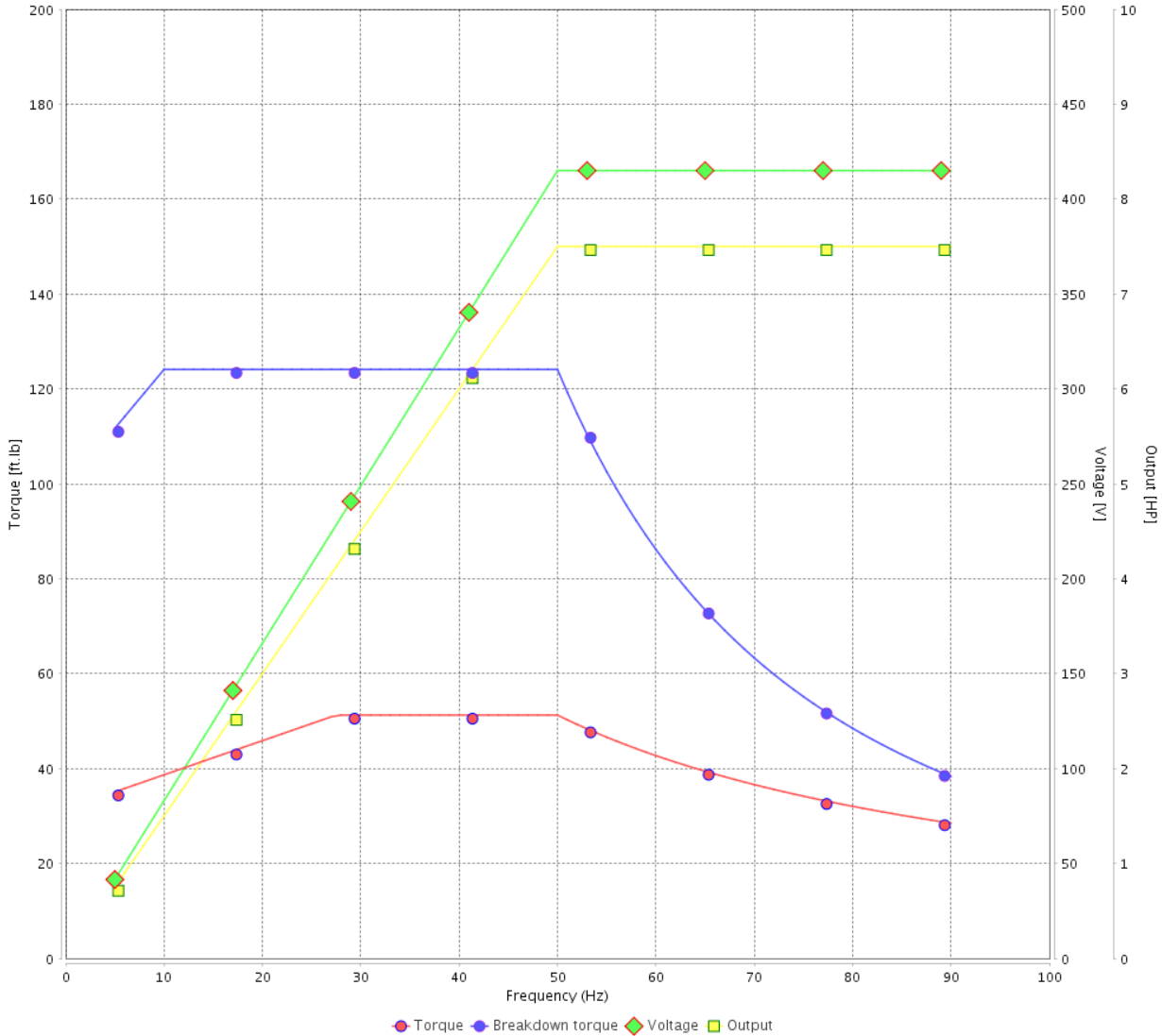
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 13025620

Catalog # : 00709ET3E256TC-W22

VFD OPERATION 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

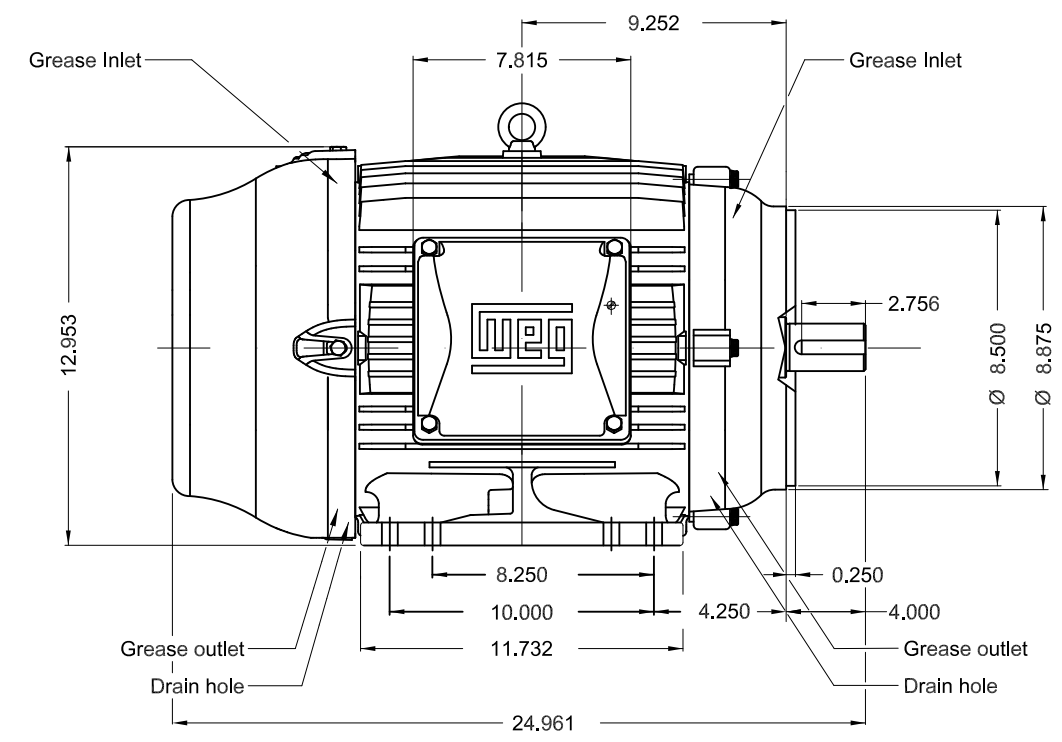
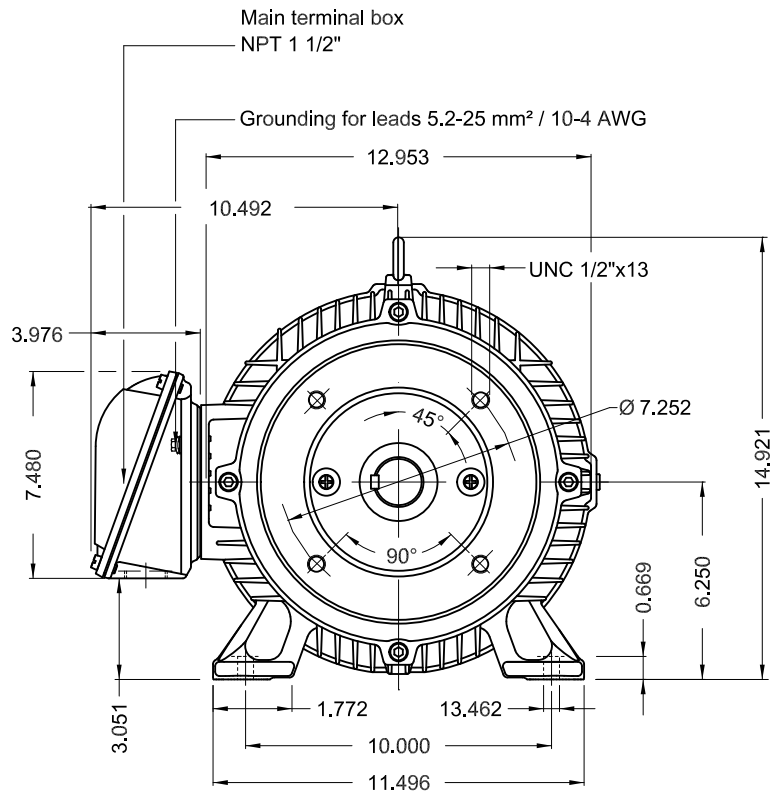
Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 36 / 36	Revision
Checked by				
Date	12/04/2022			

1 2 3 4 5 6

A

B

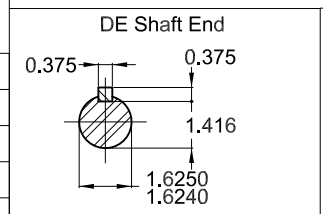
C



D

E

Without vertical jackscrews
Color RAL 5009
Painting plan 203A
Mounting NEMA F-1
Mounting B34R(D)



7.5 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 254/6TC 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 00709ET3E256TC-W22

Inverter Duty Motor
Severe Duty

PH3 60Hz Fr. 254/6TC 1000m.a.s.l. IP55 TEFC 299lb

V 230/460

A 22.2/11.1

HP 7.5

kW 5.5

SF 1.25

SFA 27.8/13.9

RPM 880

PF 0.71

AMB 40°C

INS cl. F DT80K

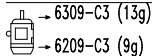
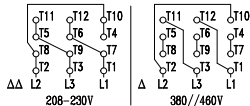
NEMA NOM EFF 87.5%

DUTY CONT.

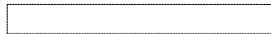
DES B Code G

USABLE @208V 24.5A SF 1.15 SFA 28.2

7.5HP 5.5kW 50Hz 380V 13.1A 720RPM SF 1.00 EFF 84.0% (IE2)



MOBIL POLYREX EM (20000h)



MADE IN BRAZIL
13025620