

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :								
Product line	: NEMA Premium Efficiency Three-Phase	Product code :	12770000					
		Catalog # :	05036ET3E326TS-W22G					
Frame	: 324/6TS	Cooling method	: IC411 - TEFC					
Insulation class	: F	Mounting	: F-1					
Duty cycle	: Cont.(S1)	Rotation <sup>1</sup>	: Both (CW and CCW)					
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line					
Altitude	: 1000 m.a.s.l.	Approx. weight <sup>2</sup>	: 583 lb					
Protection degree	: IP55	Moment of inertia (J)	: 5.75 sq.ft.lb					
Design	: B							
Output [HP]	50	40	40	40	50	50	50	
Poles	2	2	2	2	2	2	2	
Frequency [Hz]	60	50	50	50	50	50	50	
Rated voltage [V]	230/460	380	400	415	380	400	415	
Rated current [A]	112/56.1	55.1	52.7	50.8	69.4	65.4	62.6	
L. R. Amperes [A]	707/353	364	374	366	361	366	388	
LRC [A]	6.3x(Code F)	6.6x(Code F)	7.1x(Code G)	7.2x(Code H)	5.2x(Code D)	5.6x(Code E)	6.2x(Code F)	
No load current [A]	28.0/14.0	13.0	14.0	15.0	13.0	14.0	15.0	
Rated speed [RPM]	3560	2960	2965	2965	2935	2950	2955	
Slip [%]	1.11	1.33	1.17	1.17	2.17	1.67	1.50	
Rated torque [ft.lb]	74.0	71.2	71.1	71.1	89.5	89.3	89.2	
Locked rotor torque [%]	240	240	260	280	190	210	229	
Breakdown torque [%]	229	229	250	280	200	200	220	
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	36s (cold) 20s (hot)	39s (cold) 22s (hot)	37s (cold) 21s (hot)	36s (cold) 20s (hot)	21s (cold) 12s (hot)	23s (cold) 13s (hot)	25s (cold) 14s (hot)	
Noise level <sup>2</sup>	76.0 dB(A)	72.0 dB(A)	72.0 dB(A)	72.0 dB(A)	72.0 dB(A)	72.0 dB(A)	72.0 dB(A)	
Efficiency (%)	25%	92.9	92.6	91.6	91.9	94.2	93.6	93.4
	50%	93.0	92.8	92.2	92.2	93.0	93.0	93.0
	75%	93.0	92.9	92.8	93.1	92.4	92.4	93.0
	100%	93.0	93.0	93.3	93.3	91.0	91.7	92.4
Power Factor	25%	0.58	0.58	0.55	0.52	0.65	0.62	0.59
	50%	0.81	0.80	0.77	0.76	0.85	0.83	0.82
	75%	0.87	0.87	0.86	0.85	0.88	0.88	0.87
	100%	0.89	0.89	0.88	0.88	0.89	0.89	0.89
Bearing type	: 6312 C3	6212 C3	Foundation loads					
Sealing	: V'Ring	V'Ring	Max. traction	: 459 lb				
Lubrication interval	: 12000 h	15000 h	Max. compression	: 1041 lb				
Lubricant amount	: 21 g	13 g						
Lubricant type	: Mobil Polyrex EM							
Notes								
USABLE @208V 124A SF 1.10 SFA 136A								
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



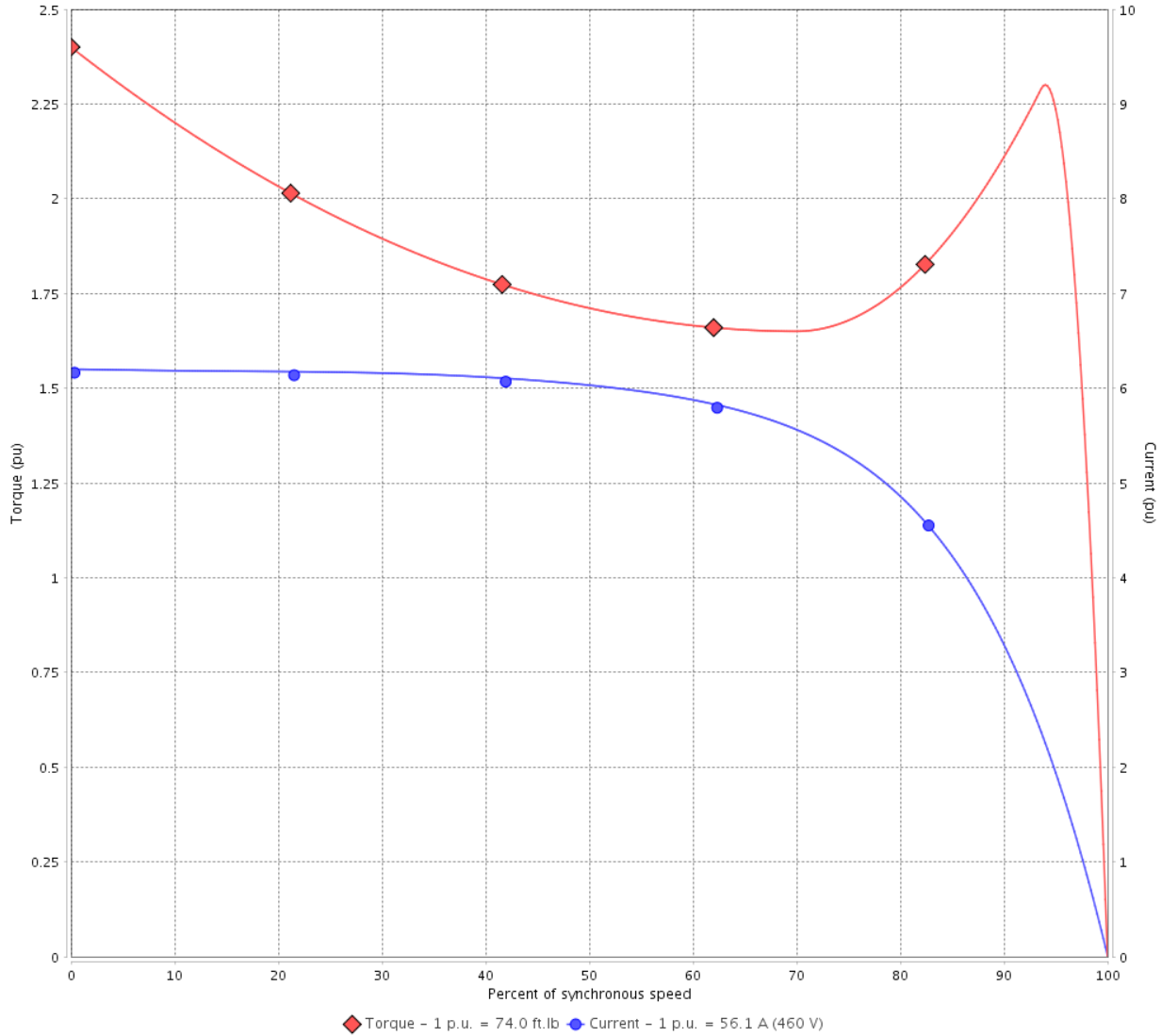
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12770000

Catalog # : 05036ET3E326TS-W22G

TORQUE AND CURRENT VS SPEED CURVE



Performance : 230/460 V 60 Hz 2P

Rated current	: 112/56.1 A	Moment of inertia (J)	: 5.75 sq.ft.lb
LRC	: 6.3	Duty cycle	: Cont.(S1)
Rated torque	: 74.0 ft.lb	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.25
Breakdown torque	: 229 %	Temperature rise	: 80 K
Rated speed	: 3560 rpm	Design	: B

Locked rotor time : 36s (cold) 20s (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



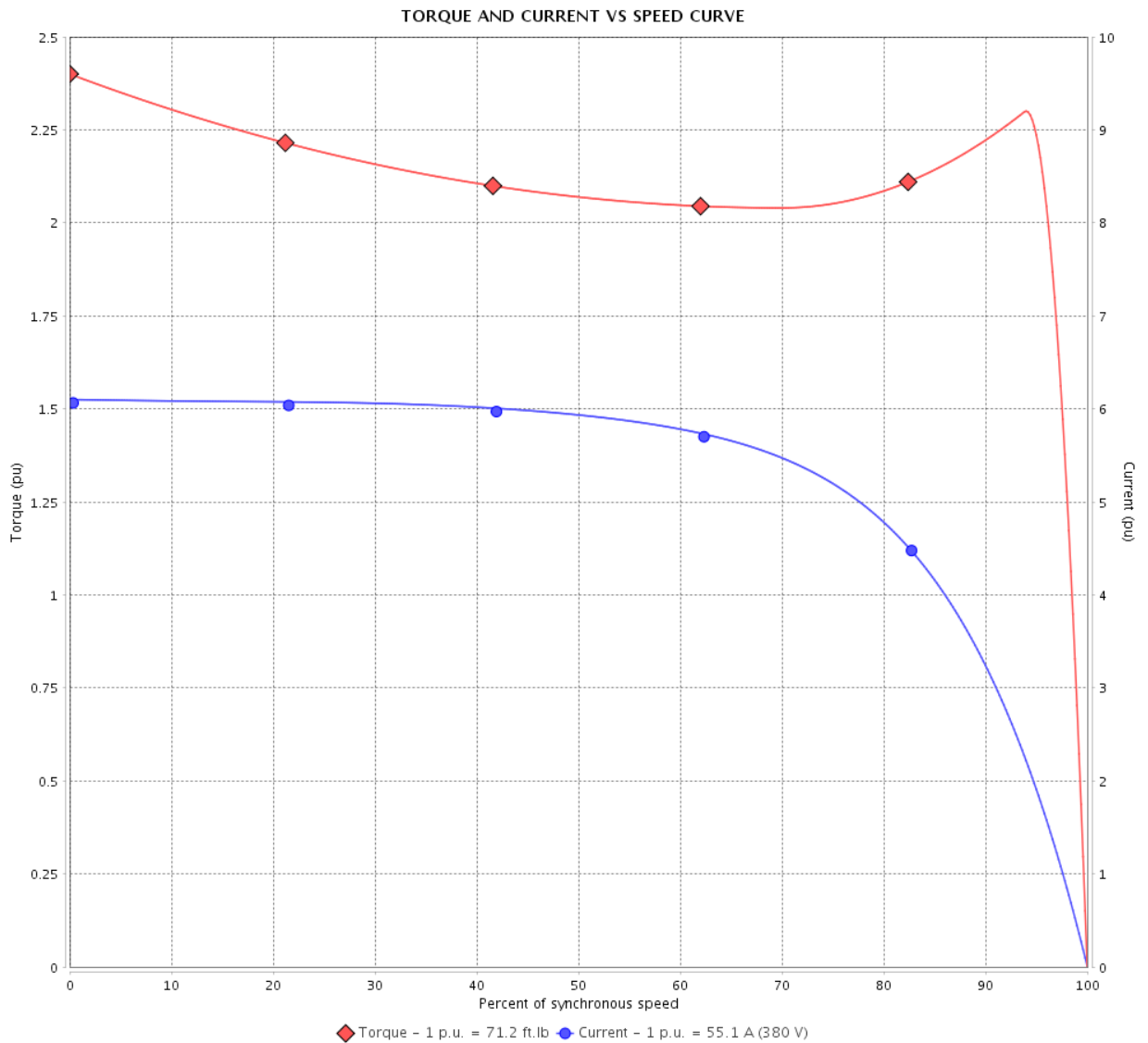
## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12770000

Catalog # : 05036ET3E326TS-W22G



Performance : 380 V 50 Hz 2P IE2

Rated current	: 55.1 A	Moment of inertia (J)	: 5.75 sq.ft.lb
LRC	: 6.6	Duty cycle	: Cont.(S1)
Rated torque	: 71.2 ft.lb	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.00
Breakdown torque	: 229 %	Temperature rise	: 80 K
Rated speed	: 2960 rpm	Design	: B

Locked rotor time : 39s (cold) 22s (hot)

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

# TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



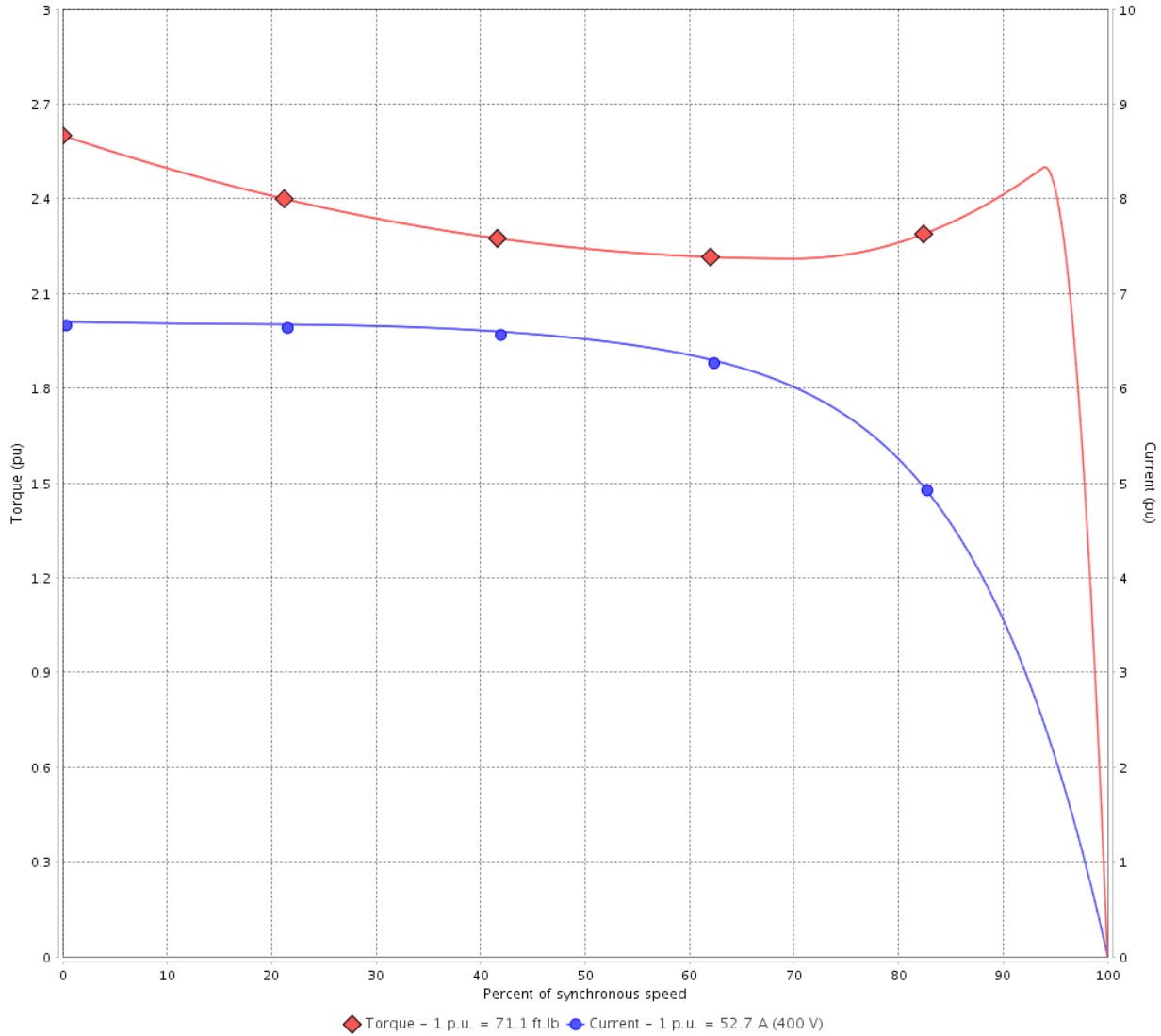
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12770000

Catalog # : 05036ET3E326TS-W22G

TORQUE AND CURRENT VS SPEED CURVE



Performance : 400 V 50 Hz 2P IE3

Rated current	: 52.7 A	Moment of inertia (J)	: 5.75 sq.ft.lb
LRC	: 7.1	Duty cycle	: Cont.(S1)
Rated torque	: 71.1 ft.lb	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.00
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 2965 rpm	Design	: B

Locked rotor time : 37s (cold) 21s (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



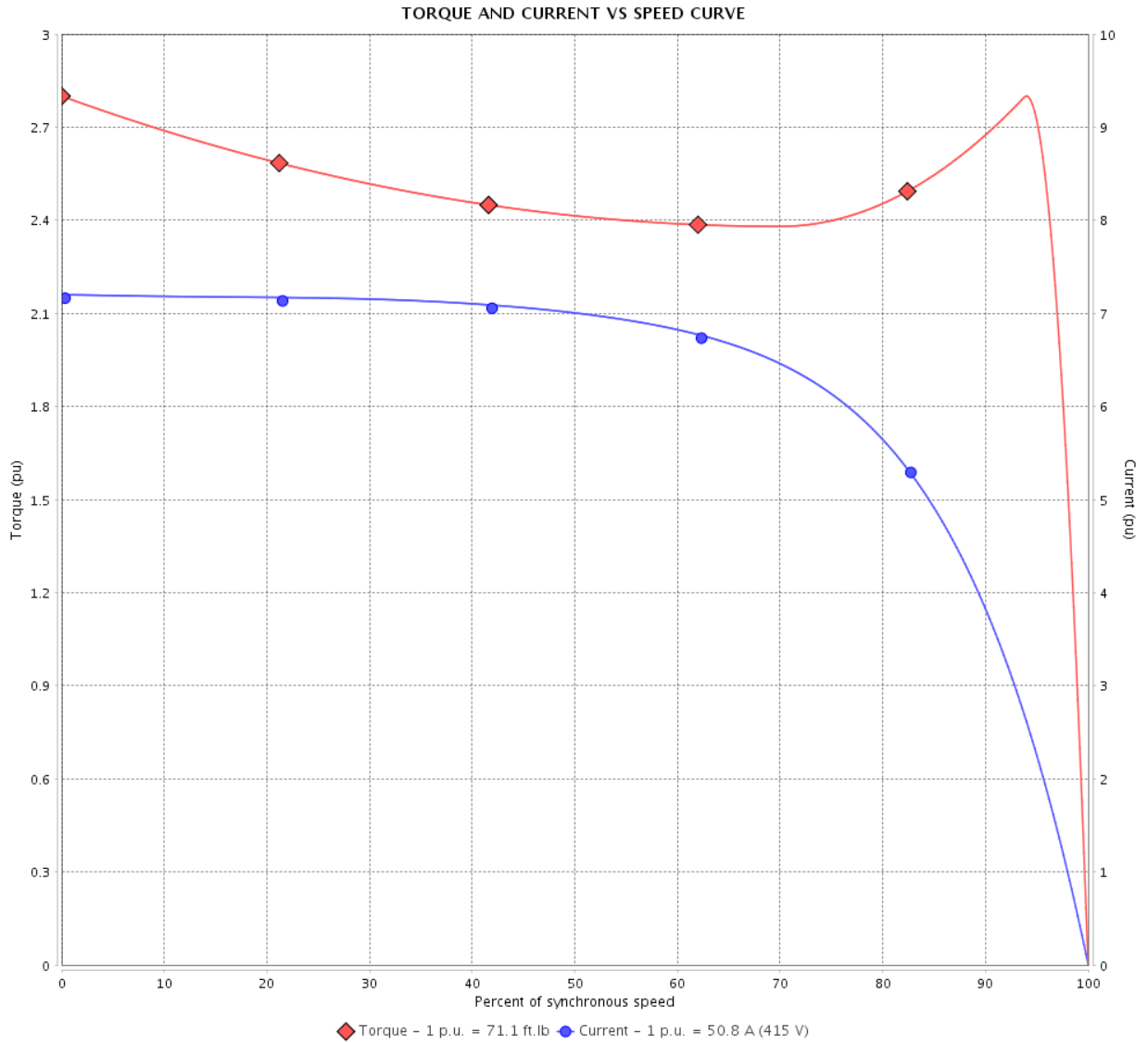
## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12770000

Catalog # : 05036ET3E326TS-W22G



Performance : 415 V 50 Hz 2P IE3

Rated current	: 50.8 A	Moment of inertia (J)	: 5.75 sq.ft.lb
LRC	: 7.2	Duty cycle	: Cont.(S1)
Rated torque	: 71.1 ft.lb	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	: 1.00
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 2965 rpm	Design	: B

Locked rotor time : 36s (cold) 20s (hot)

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

# TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

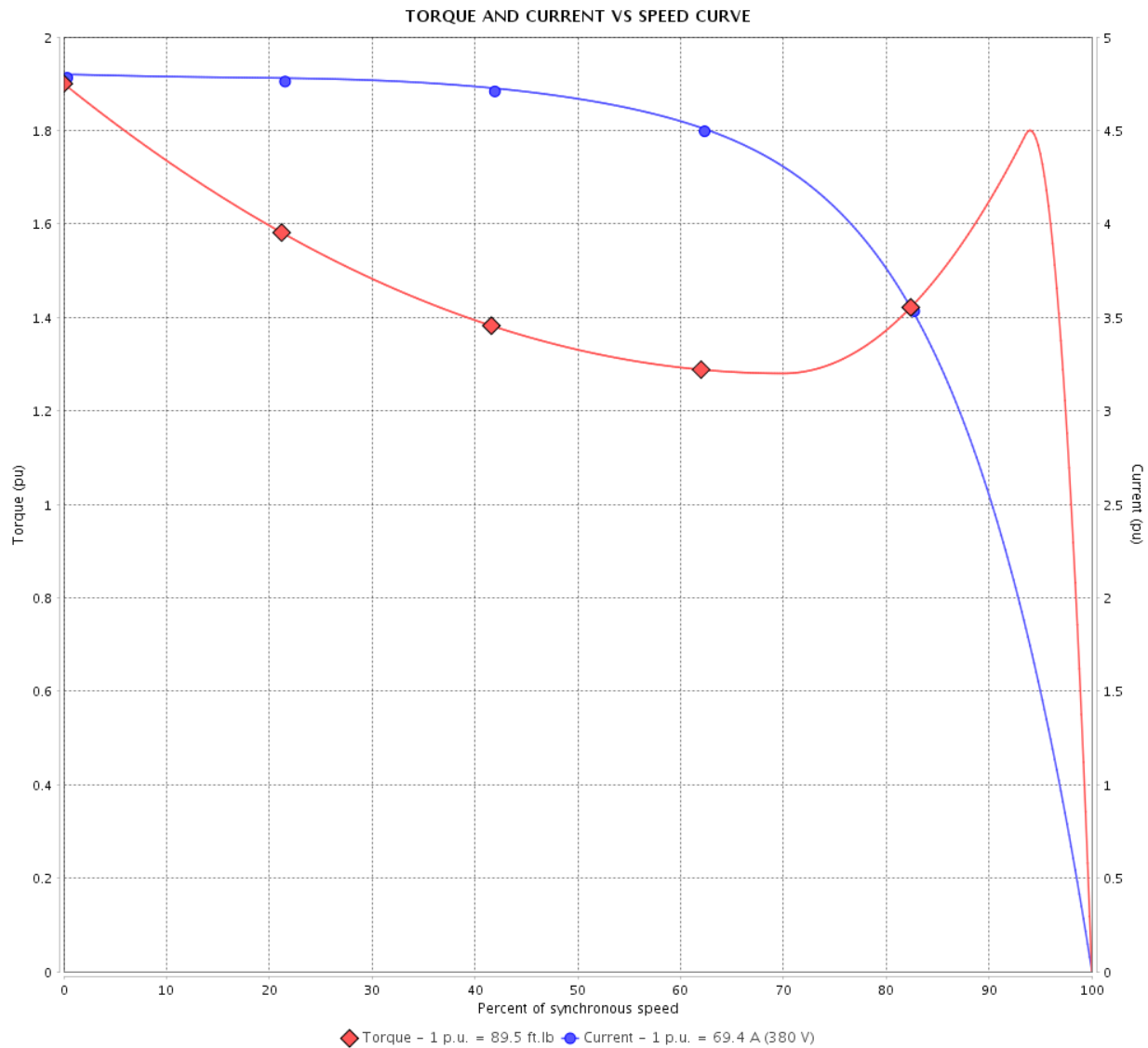


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12770000

Catalog # : 05036ET3E326TS-W22G



Performance : 380 V 50 Hz 2P

Rated current	: 69.4 A	Moment of inertia (J)	: 5.75 sq.ft.lb
LRC	: 5.2	Duty cycle	: Cont.(S1)
Rated torque	: 89.5 ft.lb	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 200 %	Temperature rise	: 105 K
Rated speed	: 2935 rpm	Design	: B

Locked rotor time : 21s (cold) 12s (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



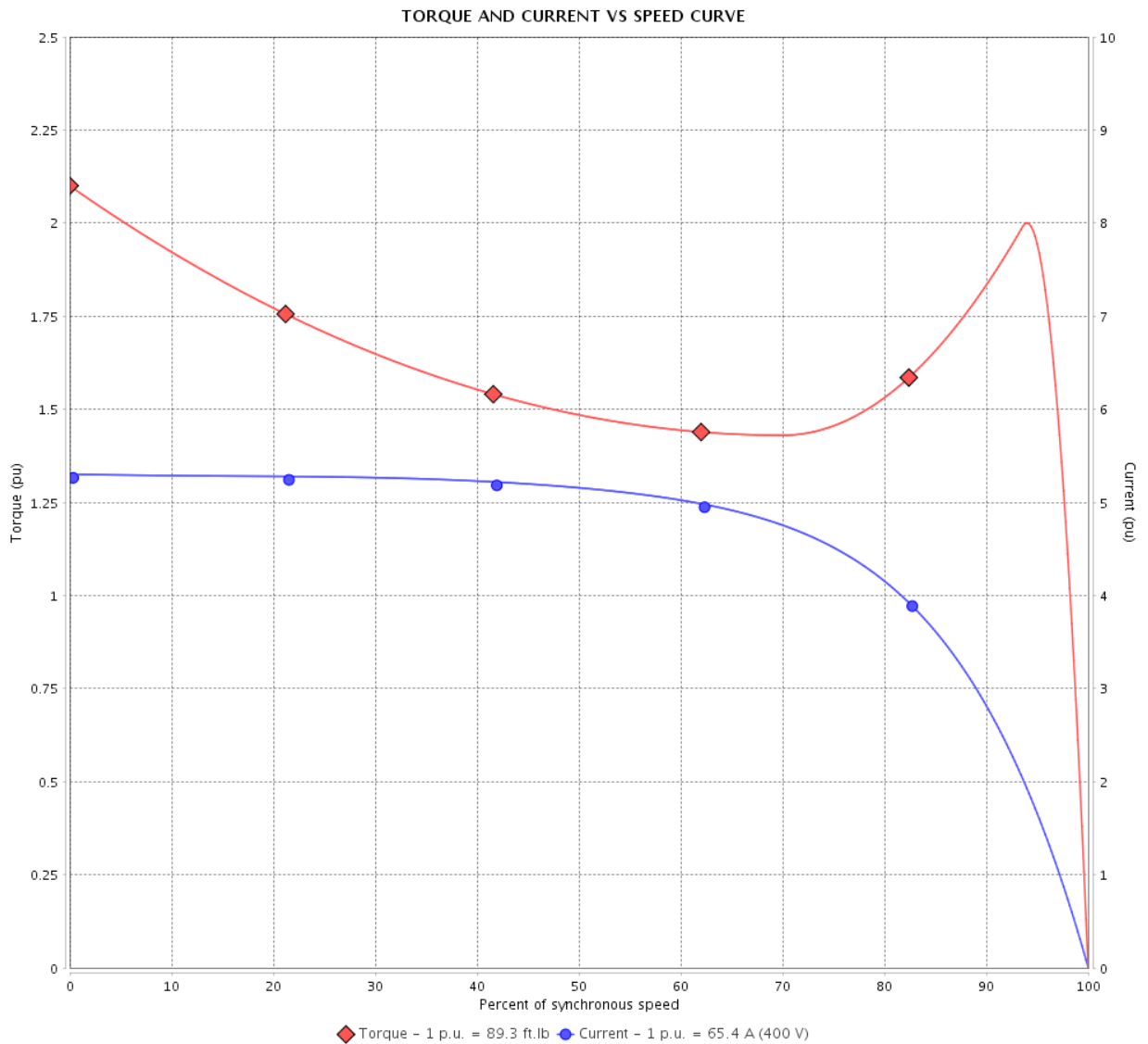
## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12770000

Catalog # : 05036ET3E326TS-W22G



Performance : 400 V 50 Hz 2P IE1

Rated current	: 65.4 A	Moment of inertia (J)	: 5.75 sq.ft.lb
LRC	: 5.6	Duty cycle	: Cont.(S1)
Rated torque	: 89.3 ft.lb	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.00
Breakdown torque	: 200 %	Temperature rise	: 105 K
Rated speed	: 2950 rpm	Design	: B

Locked rotor time : 23s (cold) 13s (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



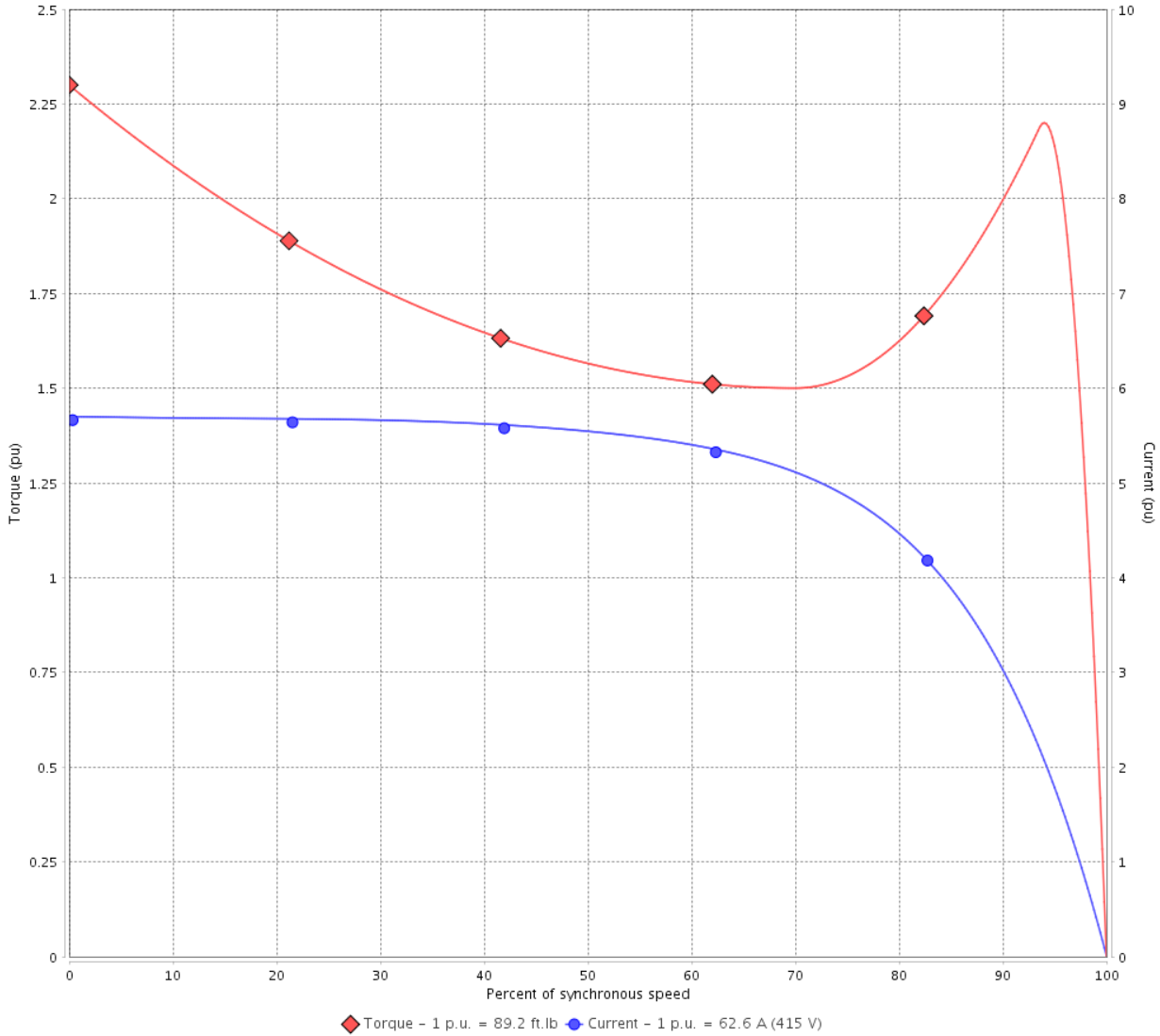
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12770000

Catalog # : 05036ET3E326TS-W22G

TORQUE AND CURRENT VS SPEED CURVE



Performance : 415 V 50 Hz 2P IE1

Rated current	: 62.6 A	Moment of inertia (J)	: 5.75 sq.ft.lb
LRC	: 6.2	Duty cycle	: Cont.(S1)
Rated torque	: 89.2 ft.lb	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.00
Breakdown torque	: 220 %	Temperature rise	: 105 K
Rated speed	: 2955 rpm	Design	: B

Locked rotor time : 25s (cold) 14s (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

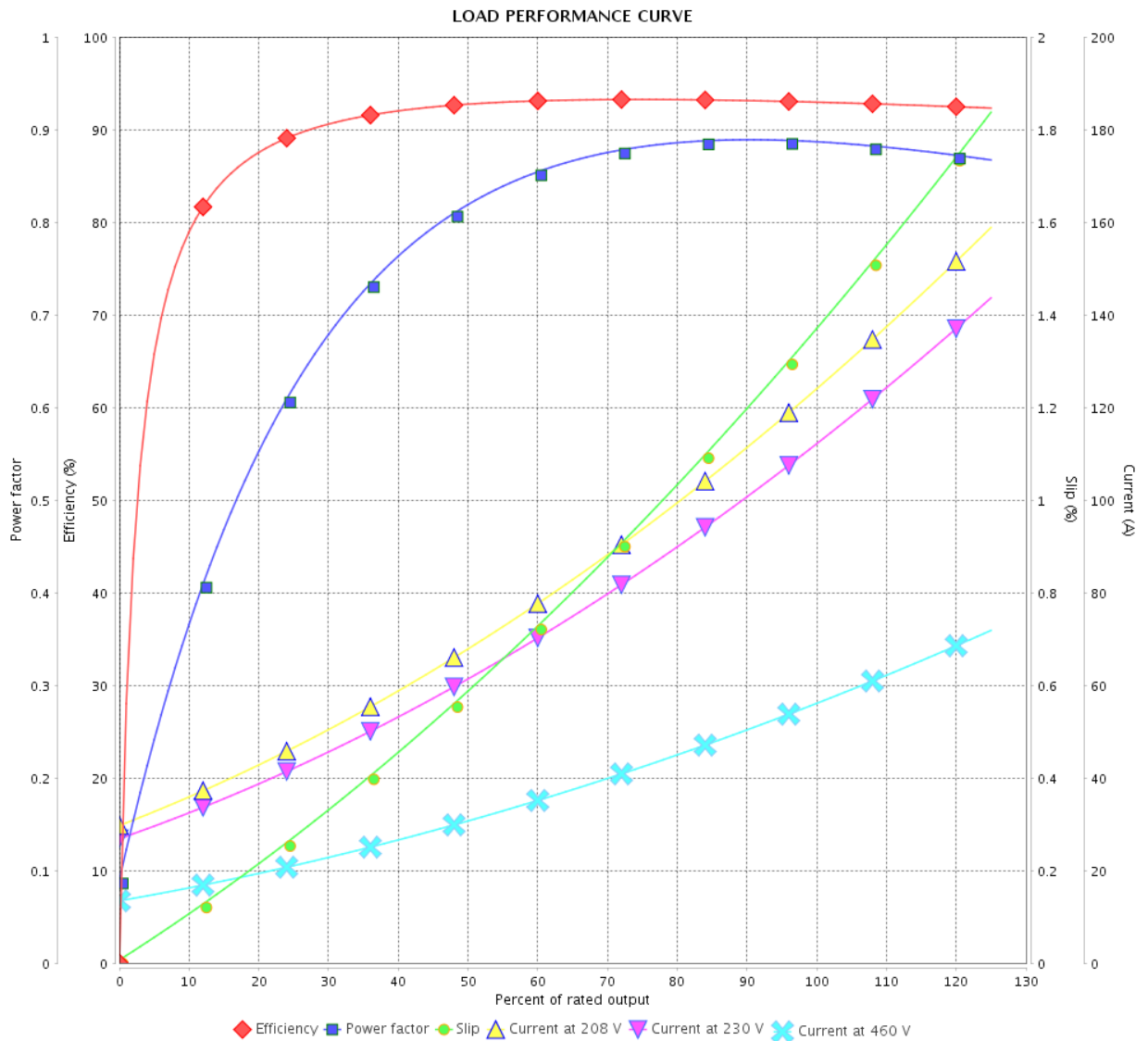


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12770000

Catalog # : 05036ET3E326TS-W22G



Performance : 230/460 V 60 Hz 2P

Rated current : 112/56.1 A  
 LRC : 6.3  
 Rated torque : 74.0 ft.lb  
 Locked rotor torque : 240 %  
 Breakdown torque : 229 %  
 Rated speed : 3560 rpm

Moment of inertia (J) : 5.75 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

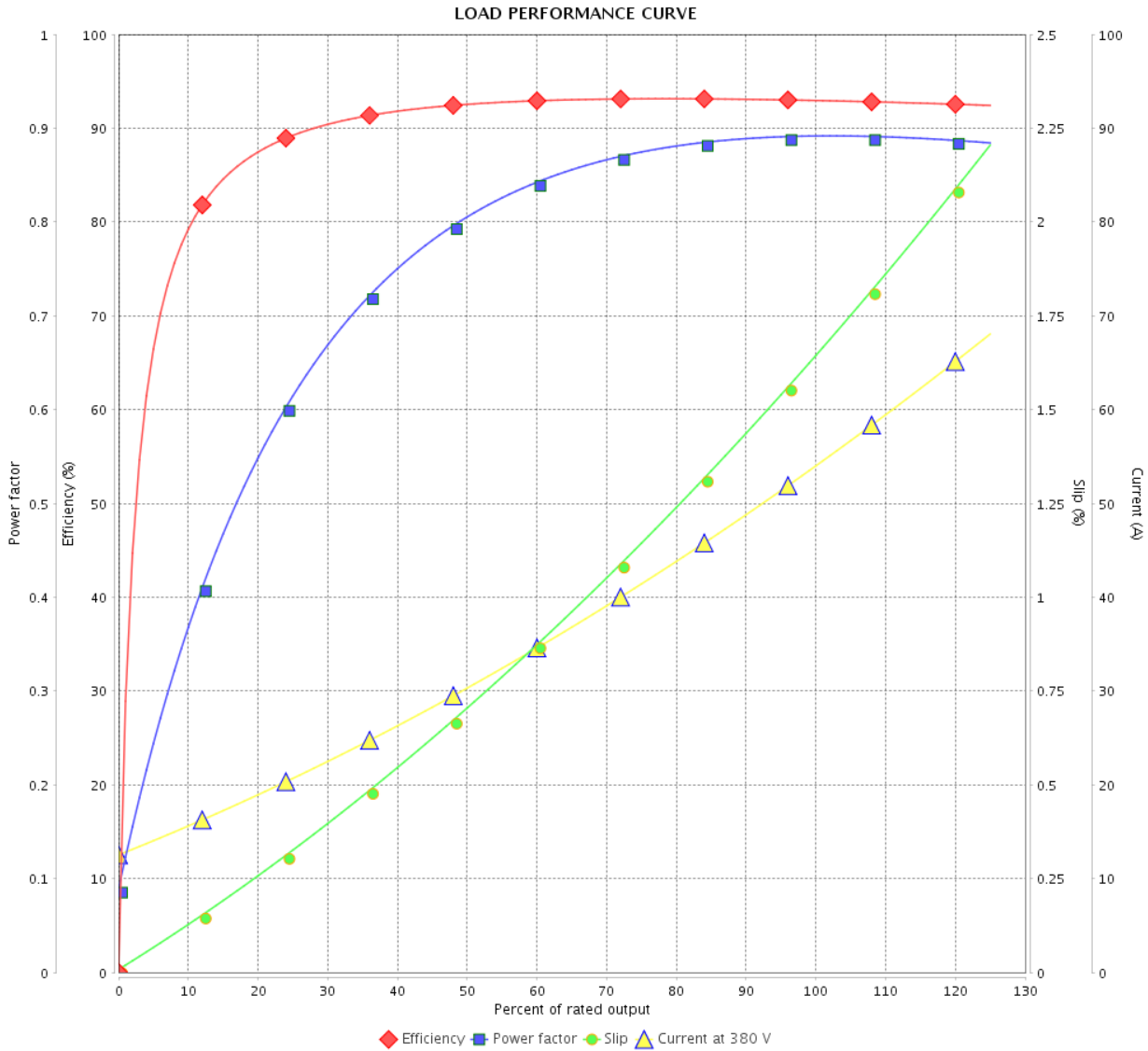


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12770000

Catalog # : 05036ET3E326TS-W22G



Performance : 380 V 50 Hz 2P IE2

Rated current : 55.1 A  
 LRC : 6.6  
 Rated torque : 71.2 ft.lb  
 Locked rotor torque : 240 %  
 Breakdown torque : 229 %  
 Rated speed : 2960 rpm

Moment of inertia (J) : 5.75 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

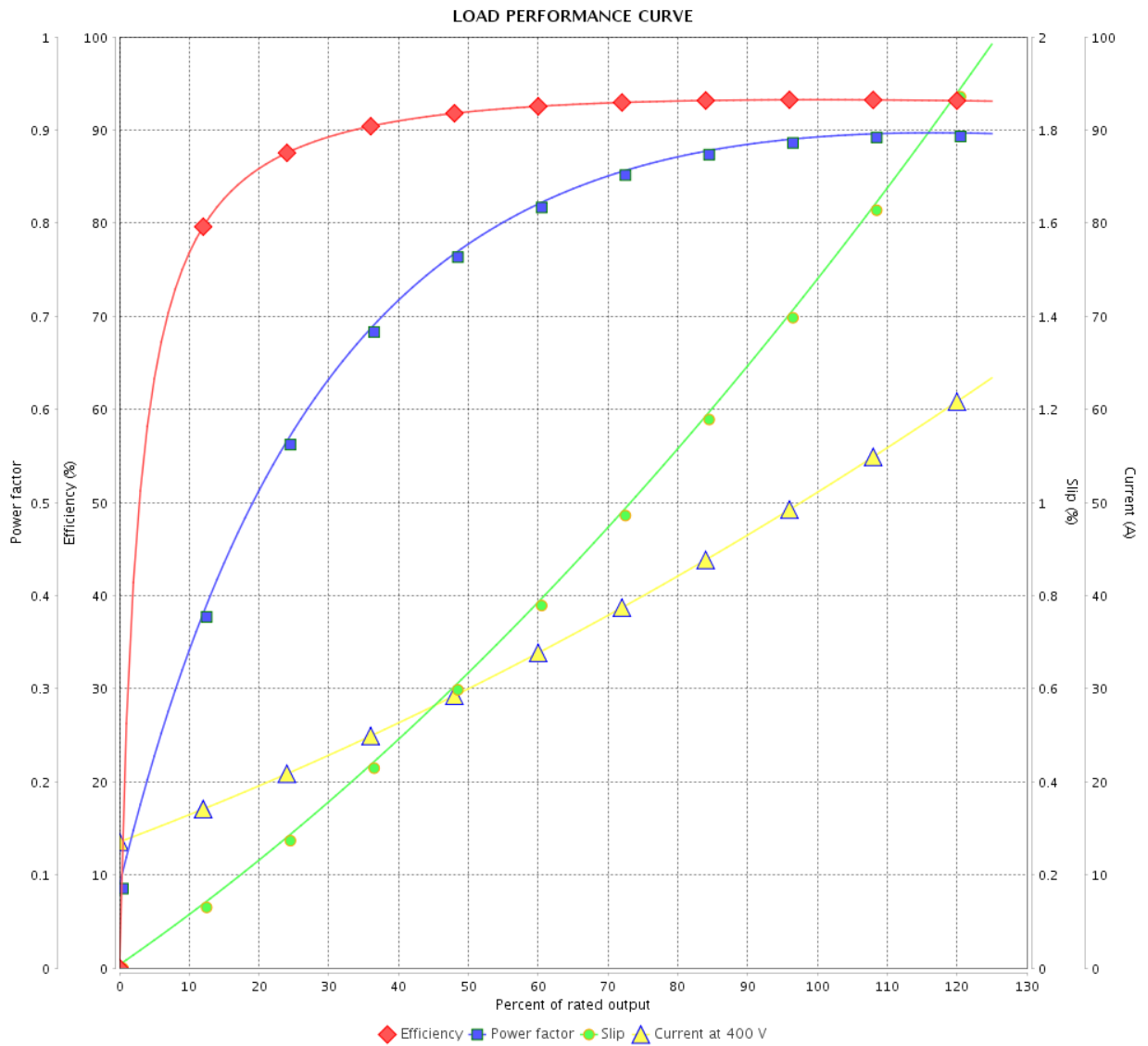


Customer : \_\_\_\_\_

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12770000

Catalog # : 05036ET3E326TS-W22G



Performance : 400 V 50 Hz 2P IE3

Rated current : 52.7 A  
 LRC : 7.1  
 Rated torque : 71.1 ft.lb  
 Locked rotor torque : 260 %  
 Breakdown torque : 250 %  
 Rated speed : 2965 rpm

Moment of inertia (J) : 5.75 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		Revision
Checked by		11 / 36		
Date		12/04/2022		

# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



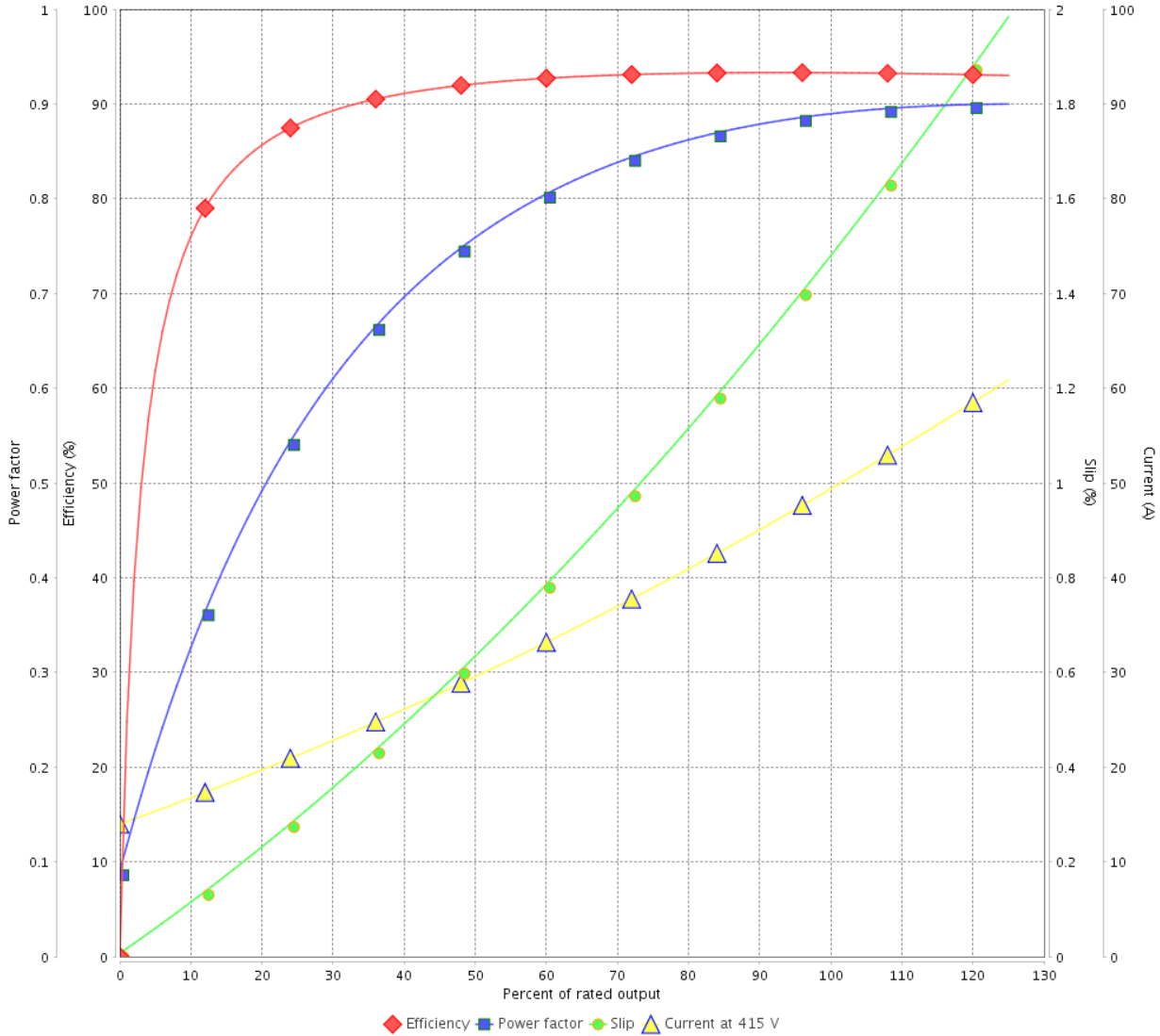
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12770000

Catalog # : 05036ET3E326TS-W22G

LOAD PERFORMANCE CURVE



Performance : 415 V 50 Hz 2P IE3

Rated current : 50.8 A  
 LRC : 7.2  
 Rated torque : 71.1 ft.lb  
 Locked rotor torque : 280 %  
 Breakdown torque : 280 %  
 Rated speed : 2965 rpm

Moment of inertia (J) : 5.75 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		Revision
Checked by		12 / 36		
Date		12/04/2022		

# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

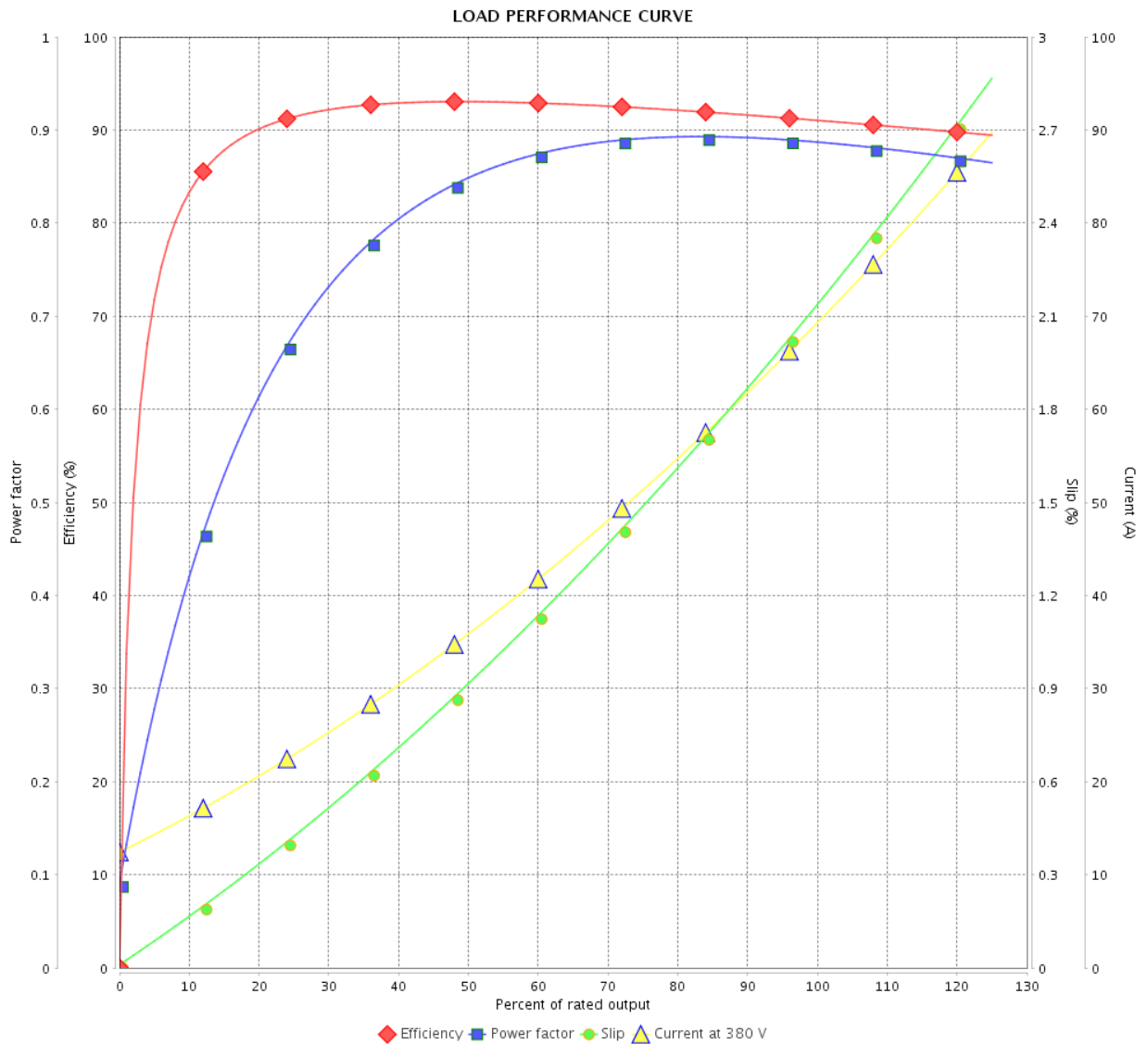


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12770000

Catalog # : 05036ET3E326TS-W22G



Performance : 380 V 50 Hz 2P

Rated current : 69.4 A  
 LRC : 5.2  
 Rated torque : 89.5 ft.lb  
 Locked rotor torque : 190 %  
 Breakdown torque : 200 %  
 Rated speed : 2935 rpm

Moment of inertia (J) : 5.75 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



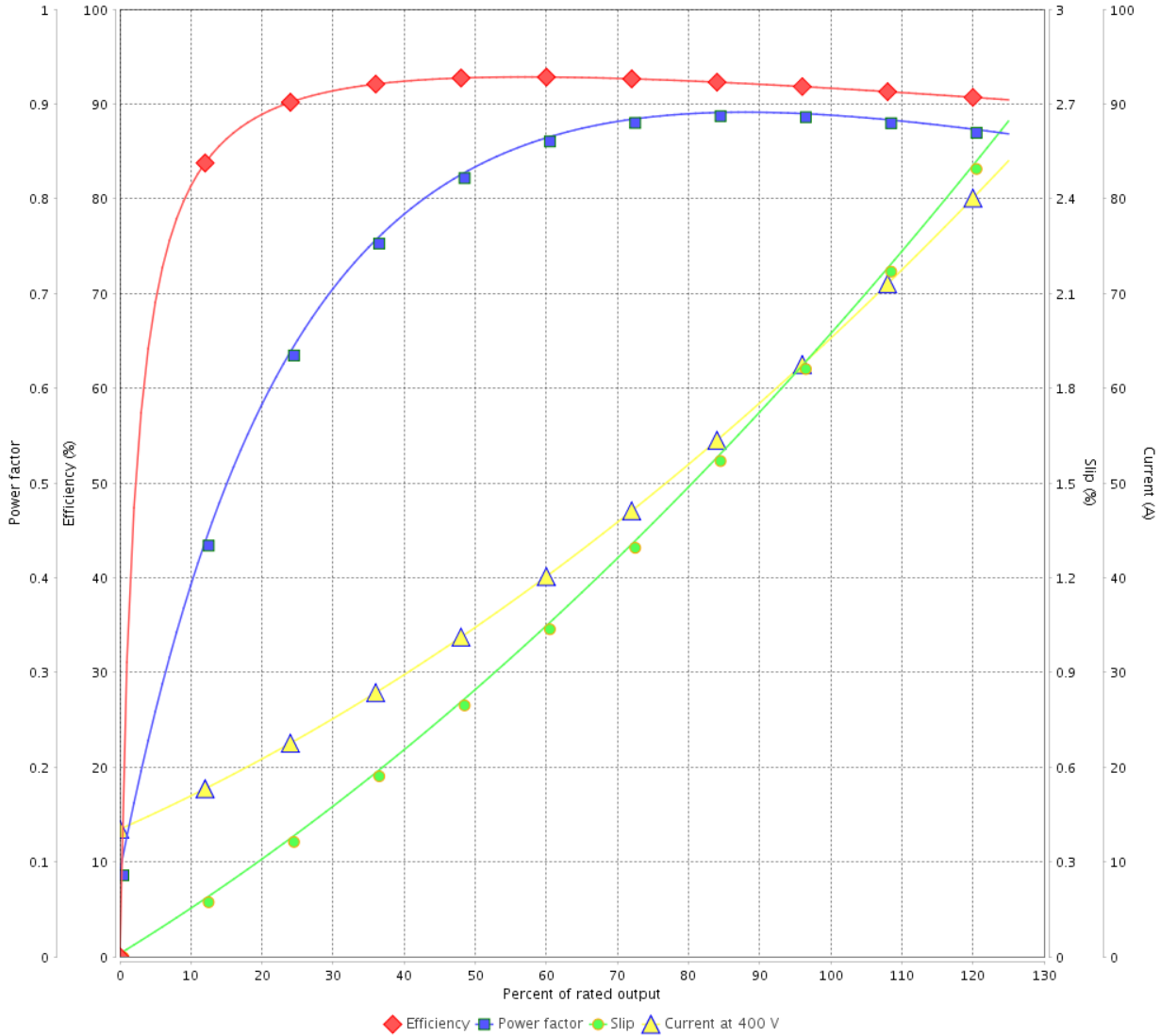
Customer : \_\_\_\_\_

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12770000

Catalog # : 05036ET3E326TS-W22G

LOAD PERFORMANCE CURVE



Performance : 400 V 50 Hz 2P IE1

Rated current : 65.4 A  
 LRC : 5.6  
 Rated torque : 89.3 ft.lb  
 Locked rotor torque : 210 %  
 Breakdown torque : 200 %  
 Rated speed : 2950 rpm

Moment of inertia (J) : 5.75 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 14 / 36	Revision
Checked by				
Date	12/04/2022			

# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

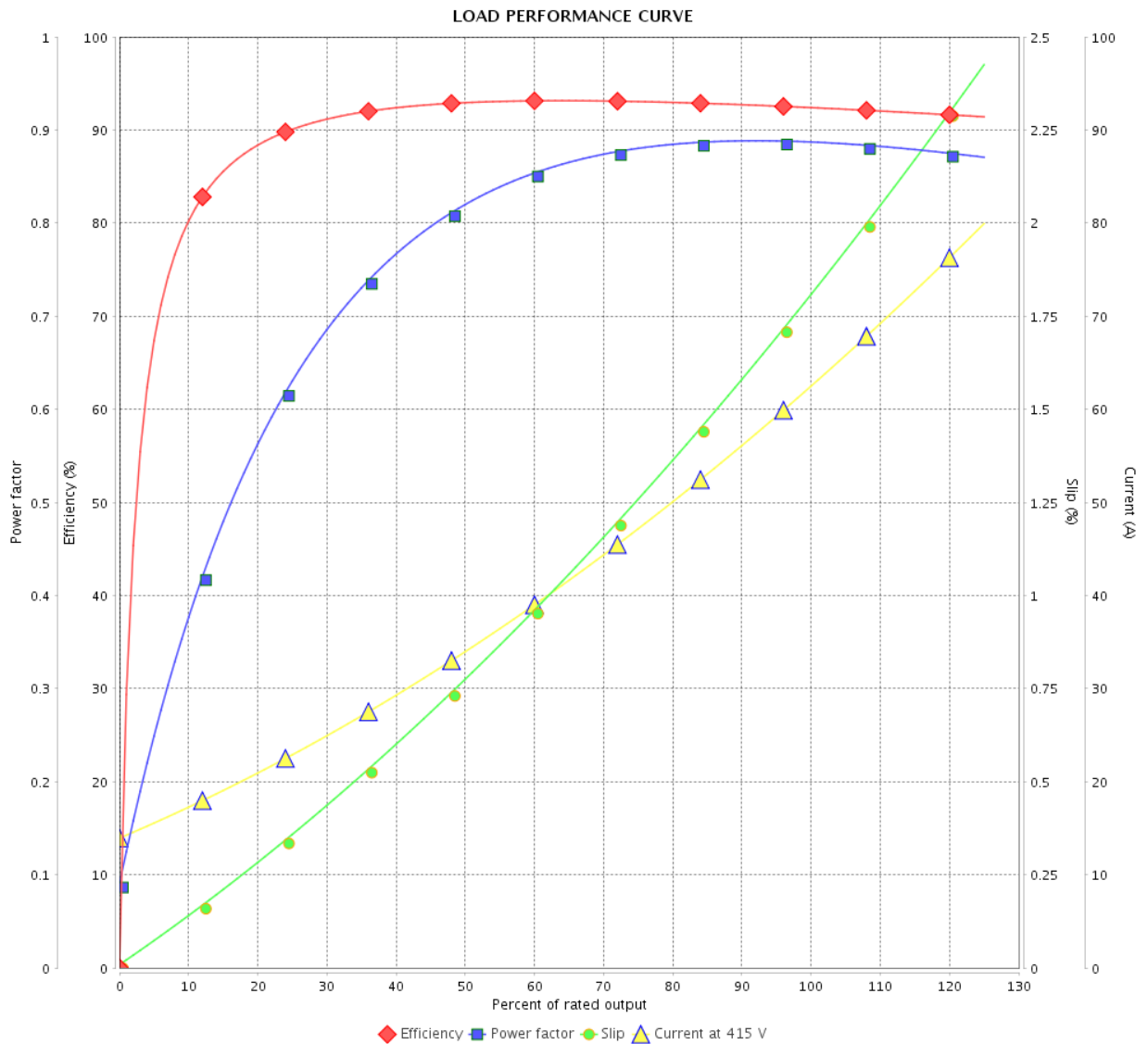


Customer : \_\_\_\_\_

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12770000

Catalog # : 05036ET3E326TS-W22G



Performance : 415 V 50 Hz 2P IE1

Rated current : 62.6 A  
 LRC : 6.2  
 Rated torque : 89.2 ft.lb  
 Locked rotor torque : 229 %  
 Breakdown torque : 220 %  
 Rated speed : 2955 rpm

Moment of inertia (J) : 5.75 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		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 : 12770000  
 Catalog # : 05036ET3E326TS-W22G

Performance : 230/460 V 60 Hz 2P

Rated current : 112/56.1 A	Moment of inertia (J) : 5.75 sq.ft.lb
LRC : 6.3	Duty cycle : Cont.(S1)
Rated torque : 74.0 ft.lb	Insulation class : F
Locked rotor torque : 240 %	Service factor : 1.25
Breakdown torque : 229 %	Temperature rise : 80 K
Rated speed : 3560 rpm	Design : B

Heating constant

Cooling constant

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

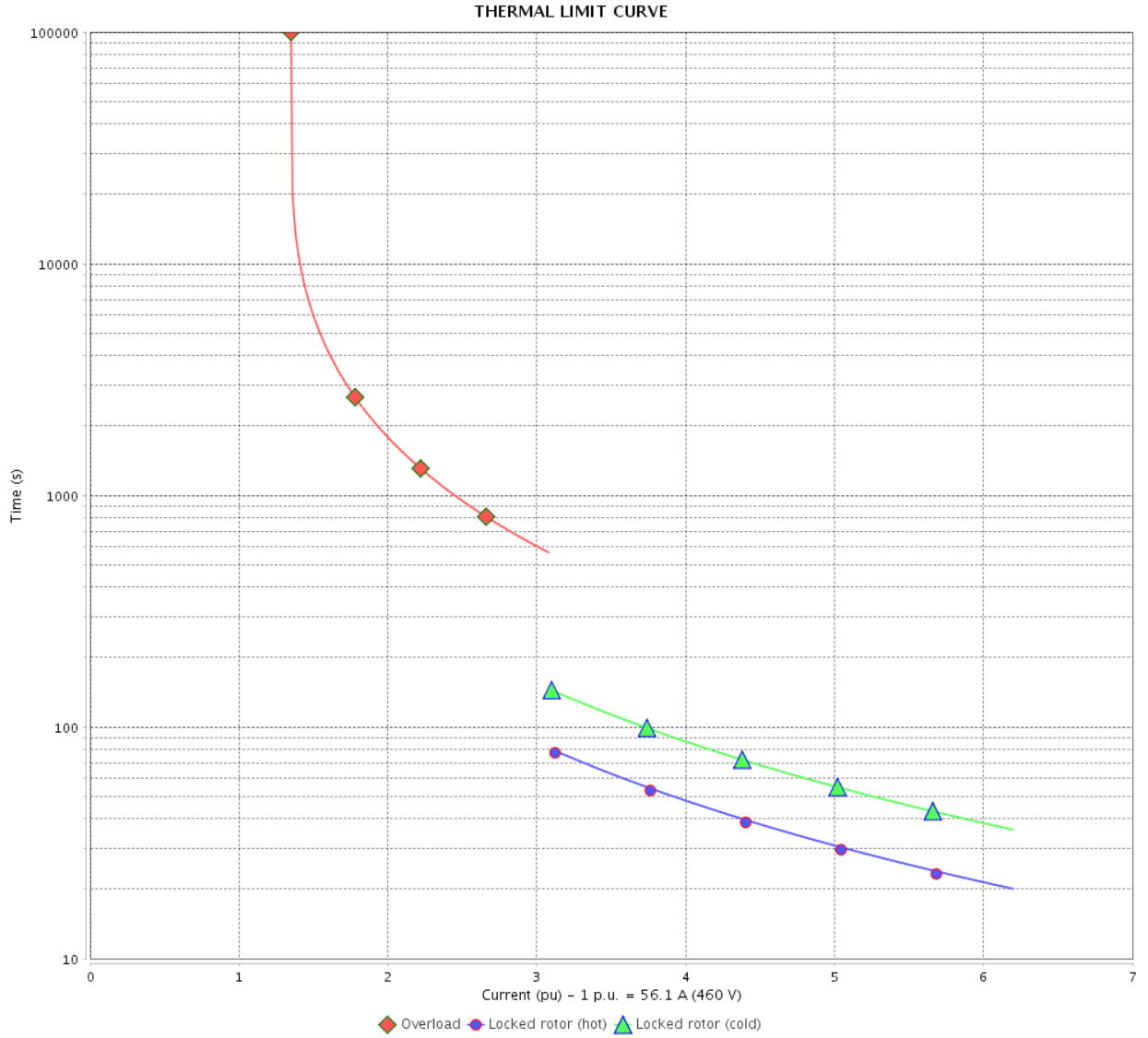


# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_



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

# THERMAL LIMIT CURVE



## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase  
 Product code : 12770000  
 Catalog # : 05036ET3E326TS-W22G

Performance : 380 V 50 Hz 2P IE2

Rated current : 55.1 A	Moment of inertia (J) : 5.75 sq.ft.lb
LRC : 6.6	Duty cycle : Cont.(S1)
Rated torque : 71.2 ft.lb	Insulation class : F
Locked rotor torque : 240 %	Service factor : 1.00
Breakdown torque : 229 %	Temperature rise : 80 K
Rated speed : 2960 rpm	Design : B

Heating constant

Cooling constant

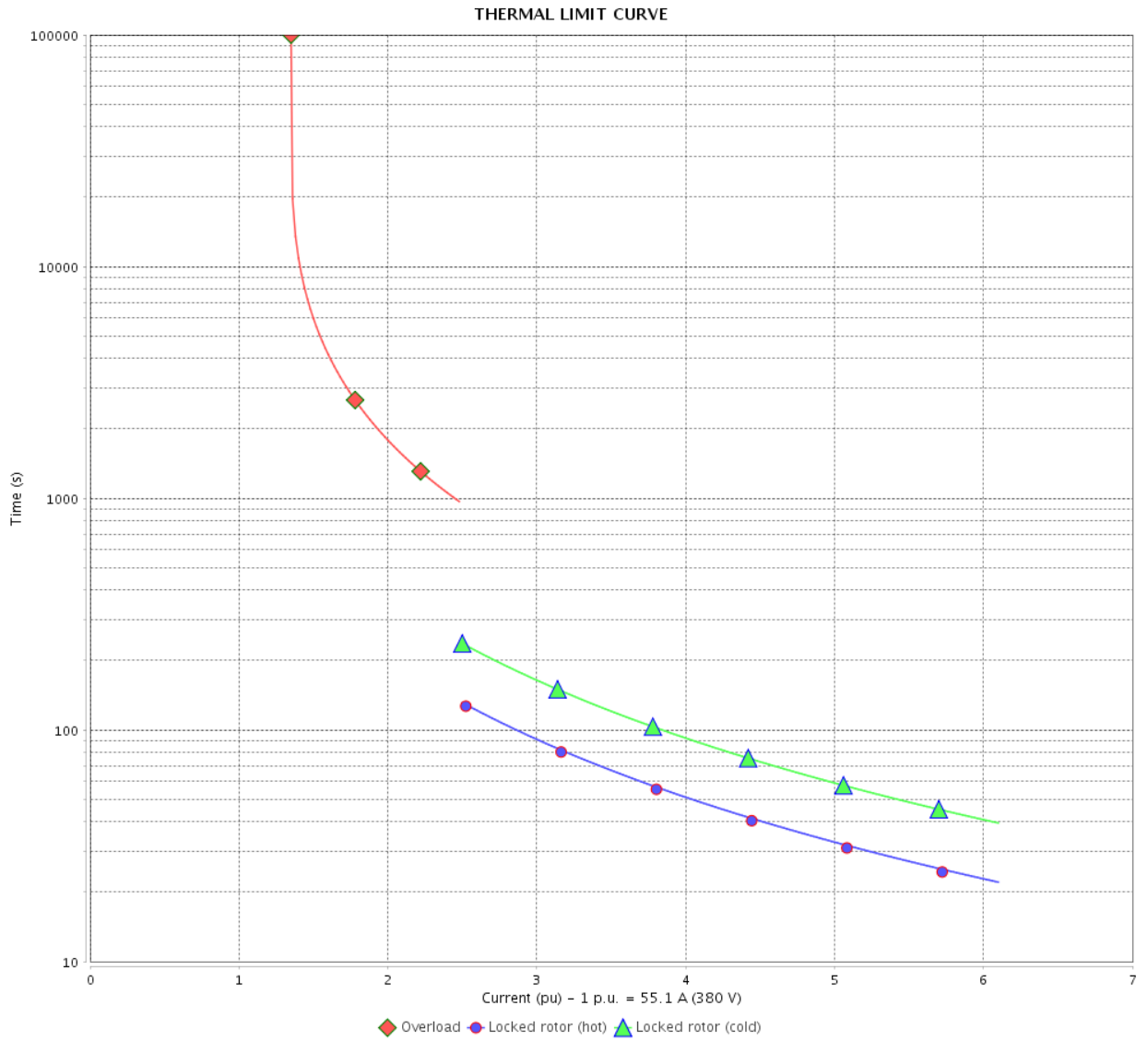
Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 18 / 36	Revision
Checked by				
Date	12/04/2022			

# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_



Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page		Revision
Checked by		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 : 12770000  
 Catalog # : 05036ET3E326TS-W22G

Performance : 400 V 50 Hz 2P IE3

Rated current : 52.7 A	Moment of inertia (J) : 5.75 sq.ft.lb
LRC : 7.1	Duty cycle : Cont.(S1)
Rated torque : 71.1 ft.lb	Insulation class : F
Locked rotor torque : 260 %	Service factor : 1.00
Breakdown torque : 250 %	Temperature rise : 80 K
Rated speed : 2965 rpm	Design : B

Heating constant

Cooling constant

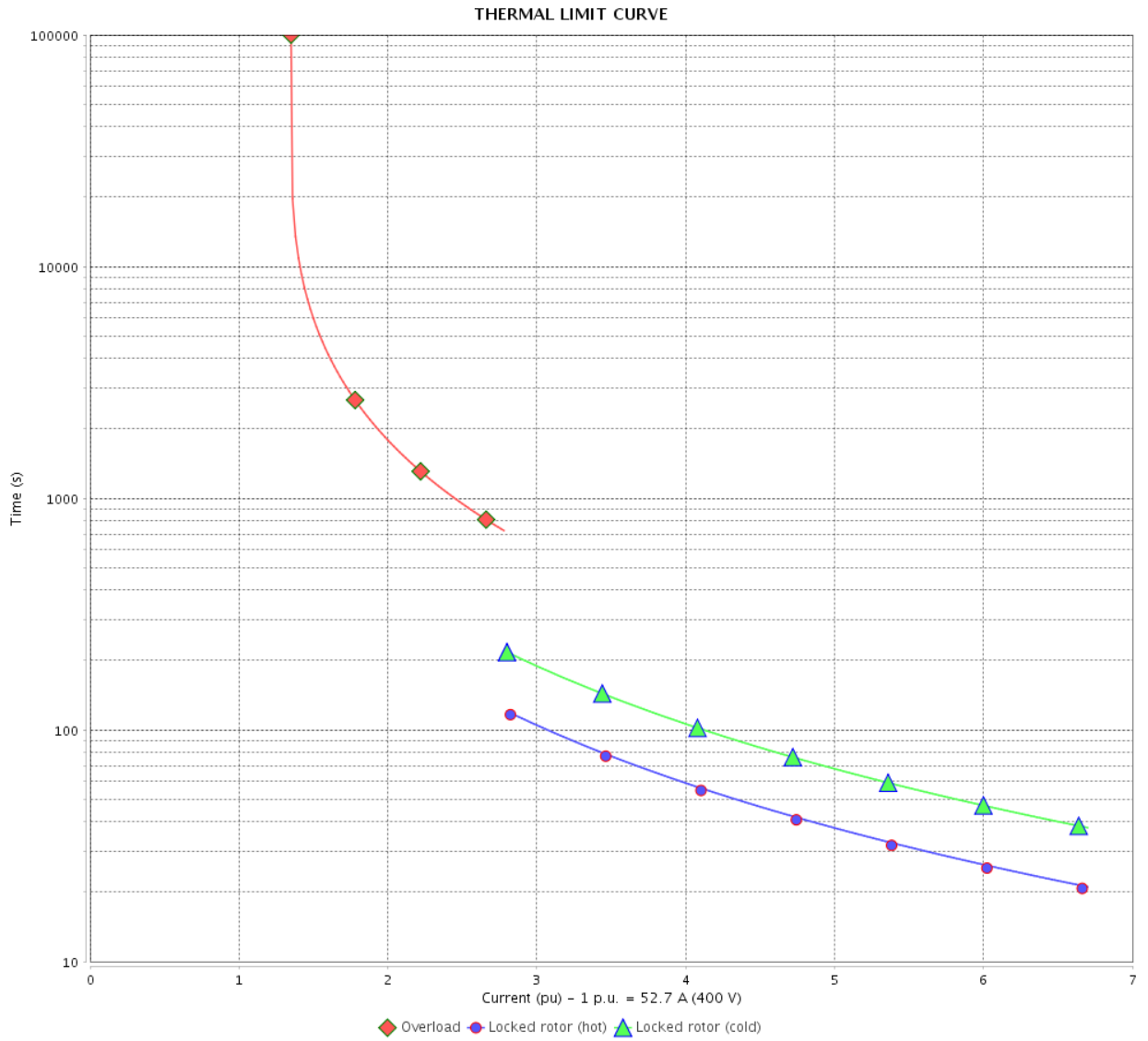
Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 20 / 36	Revision
Checked by				
Date	12/04/2022			

# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_



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

# THERMAL LIMIT CURVE



## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase  
Product code : 12770000  
Catalog # : 05036ET3E326TS-W22G

Performance : 415 V 50 Hz 2P IE3

Rated current	: 50.8 A	Moment of inertia (J)	: 5.75 sq.ft.lb
LRC	: 7.2	Duty cycle	: Cont.(S1)
Rated torque	: 71.1 ft.lb	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	: 1.00
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 2965 rpm	Design	: B

Heating constant

Cooling constant

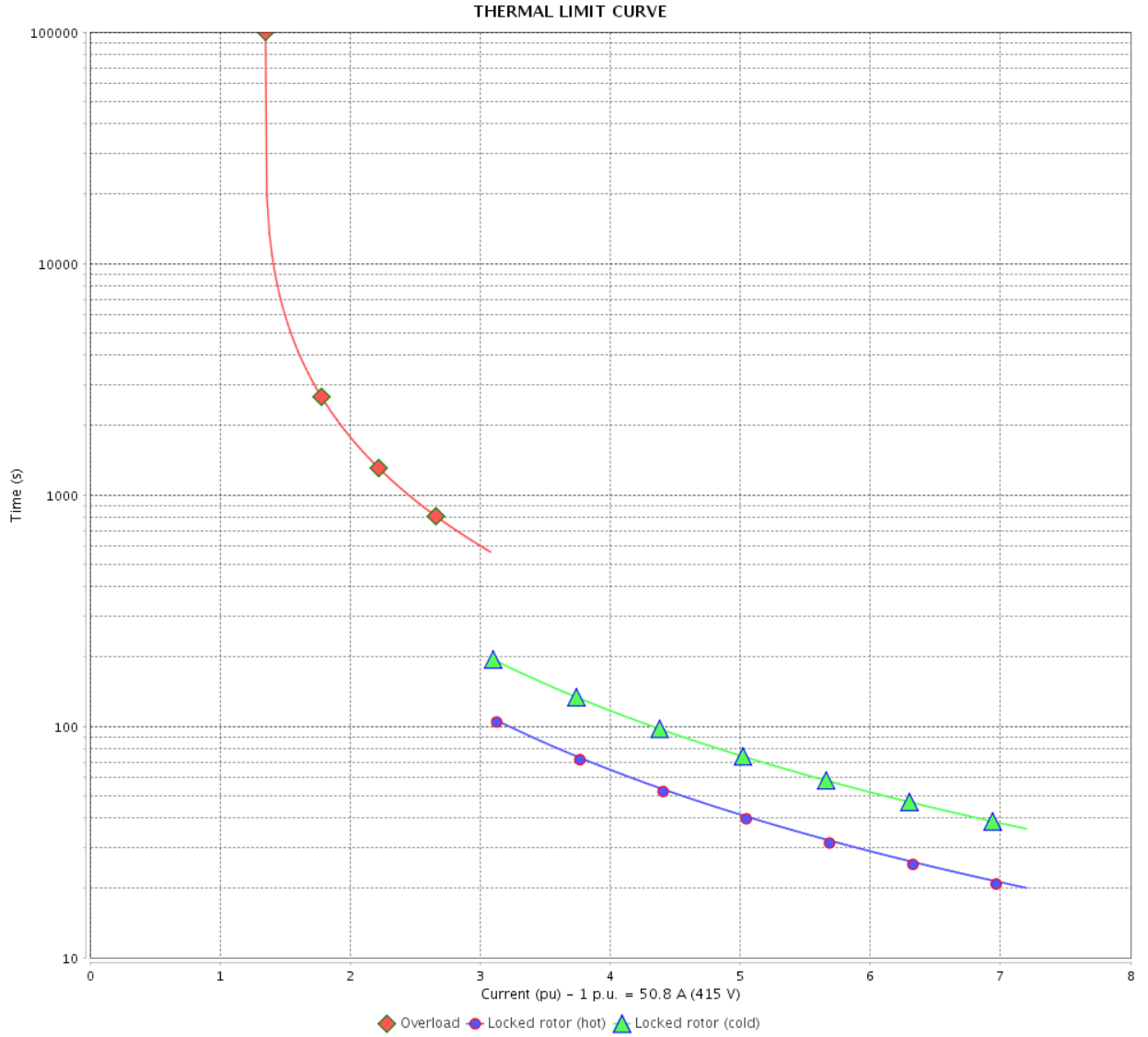
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	12/04/2022		22 / 36	

# 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 : 12770000  
 Catalog # : 05036ET3E326TS-W22G

Performance : 380 V 50 Hz 2P

Rated current : 69.4 A	Moment of inertia (J) : 5.75 sq.ft.lb
LRC : 5.2	Duty cycle : Cont.(S1)
Rated torque : 89.5 ft.lb	Insulation class : F
Locked rotor torque : 190 %	Service factor : 1.00
Breakdown torque : 200 %	Temperature rise : 105 K
Rated speed : 2935 rpm	Design : B

Heating constant

Cooling constant

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

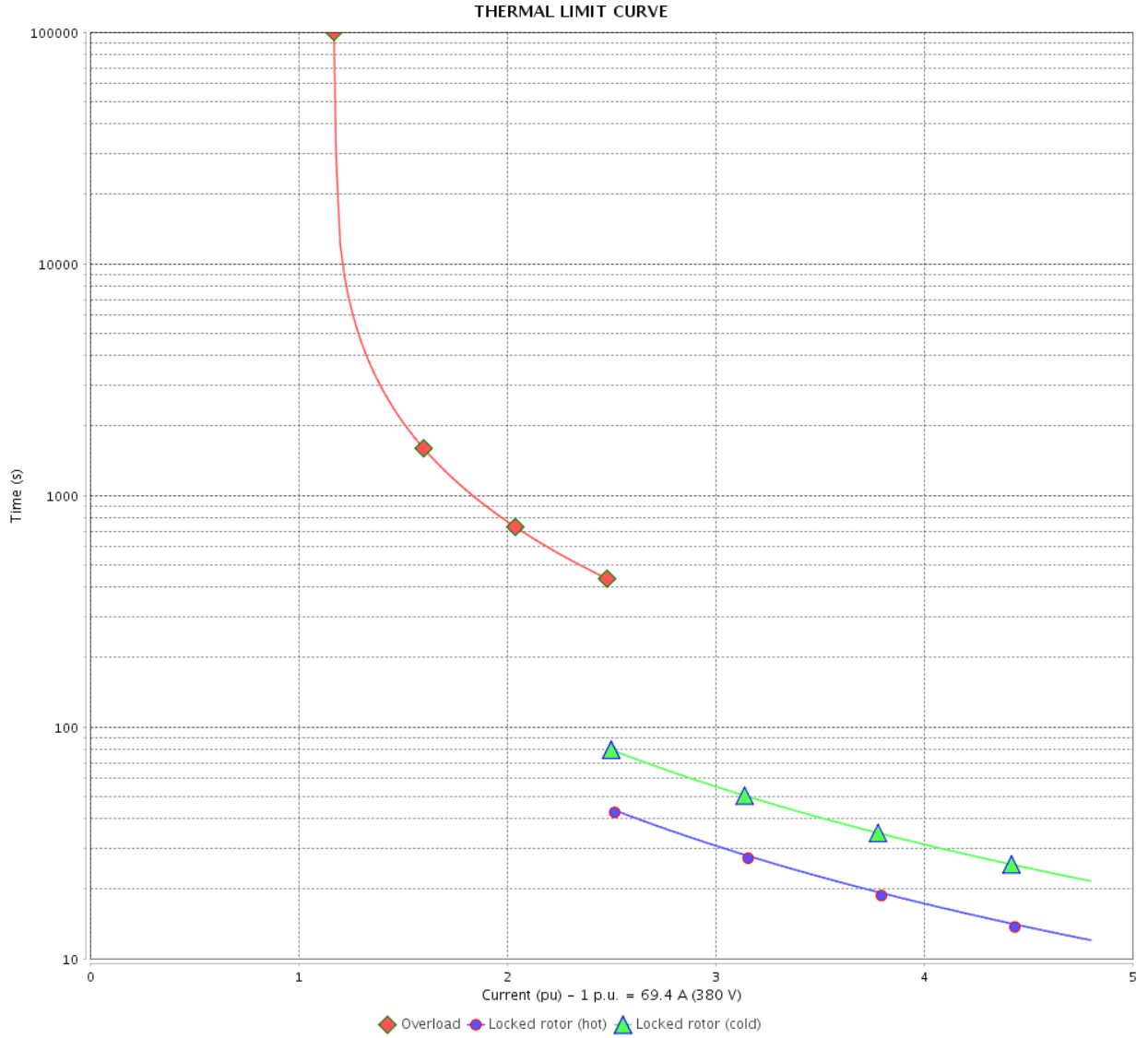


# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_



Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page		Revision
Checked by		25 / 36		
Date		12/04/2022		

# THERMAL LIMIT CURVE



## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase  
 Product code : 12770000  
 Catalog # : 05036ET3E326TS-W22G

Performance : 400 V 50 Hz 2P IE1

Rated current : 65.4 A	Moment of inertia (J) : 5.75 sq.ft.lb
LRC : 5.6	Duty cycle : Cont.(S1)
Rated torque : 89.3 ft.lb	Insulation class : F
Locked rotor torque : 210 %	Service factor : 1.00
Breakdown torque : 200 %	Temperature rise : 105 K
Rated speed : 2950 rpm	Design : B

Heating constant

Cooling constant

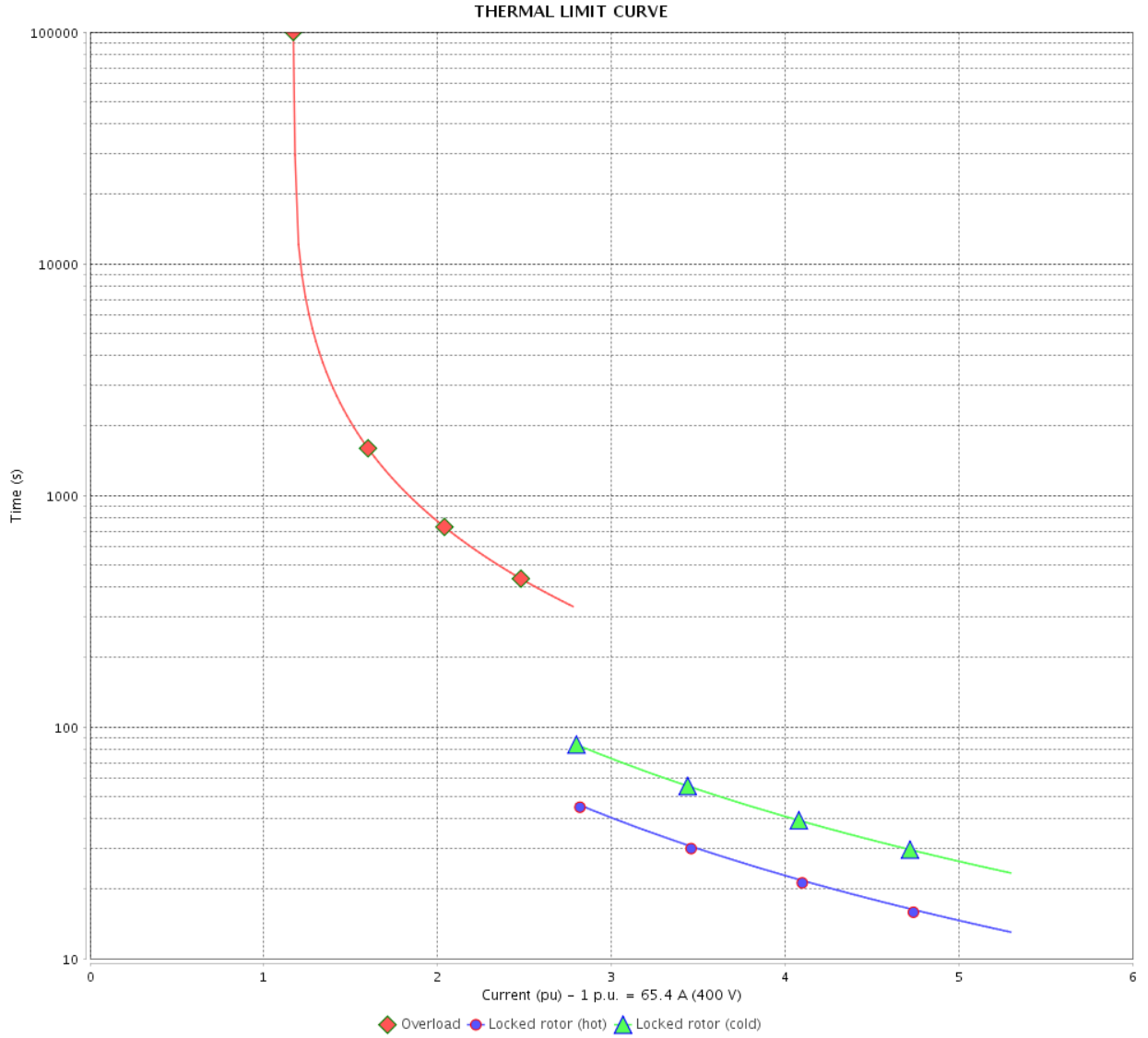
Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 26 / 36	Revision
Checked by				
Date	12/04/2022			

# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_



Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 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 : 12770000  
Catalog # : 05036ET3E326TS-W22G

Performance : 415 V 50 Hz 2P IE1

Rated current	: 62.6 A	Moment of inertia (J)	: 5.75 sq.ft.lb
LRC	: 6.2	Duty cycle	: Cont.(S1)
Rated torque	: 89.2 ft.lb	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.00
Breakdown torque	: 220 %	Temperature rise	: 105 K
Rated speed	: 2955 rpm	Design	: B

Heating constant

Cooling constant

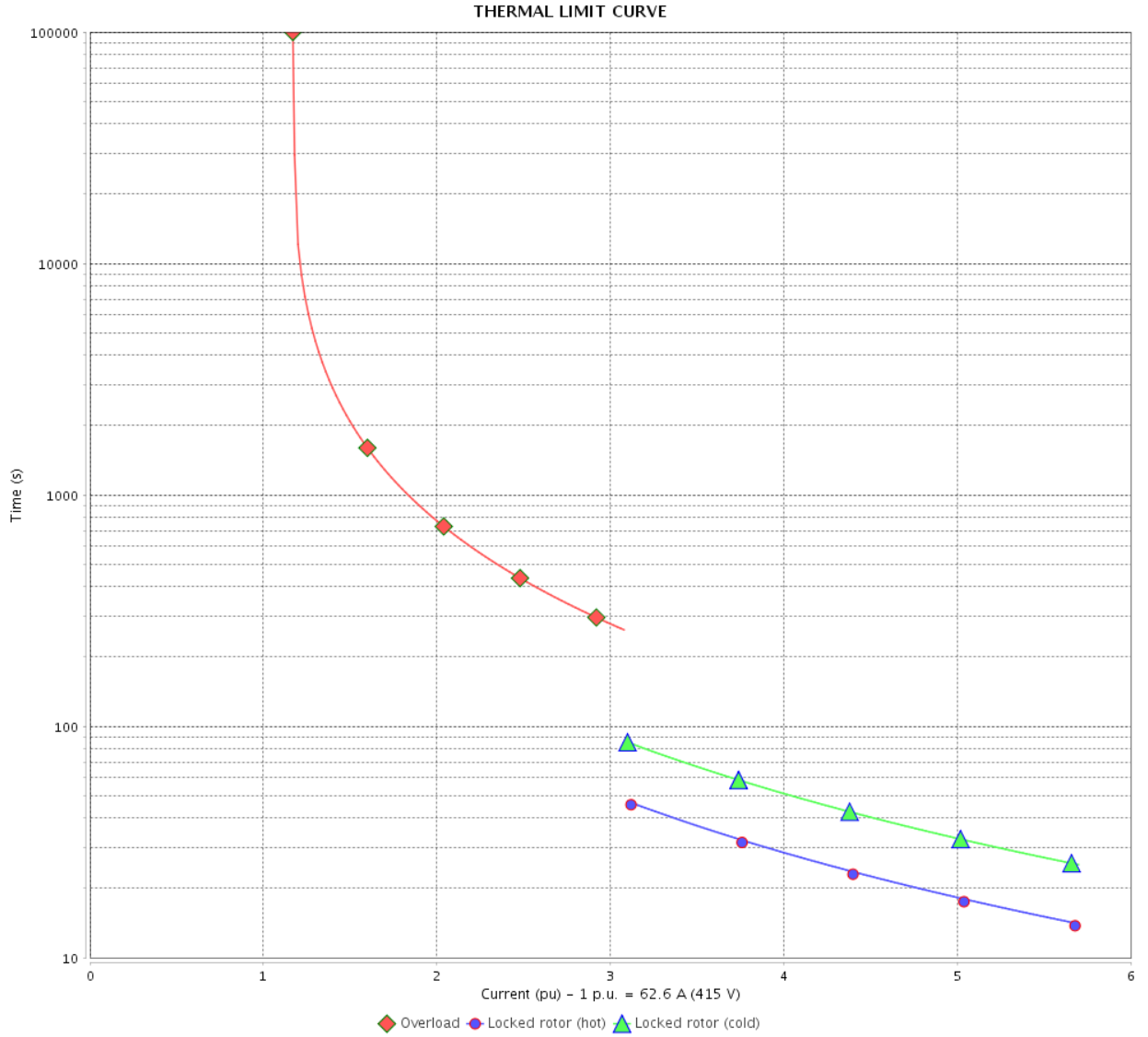
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	12/04/2022		28 / 36	

# 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



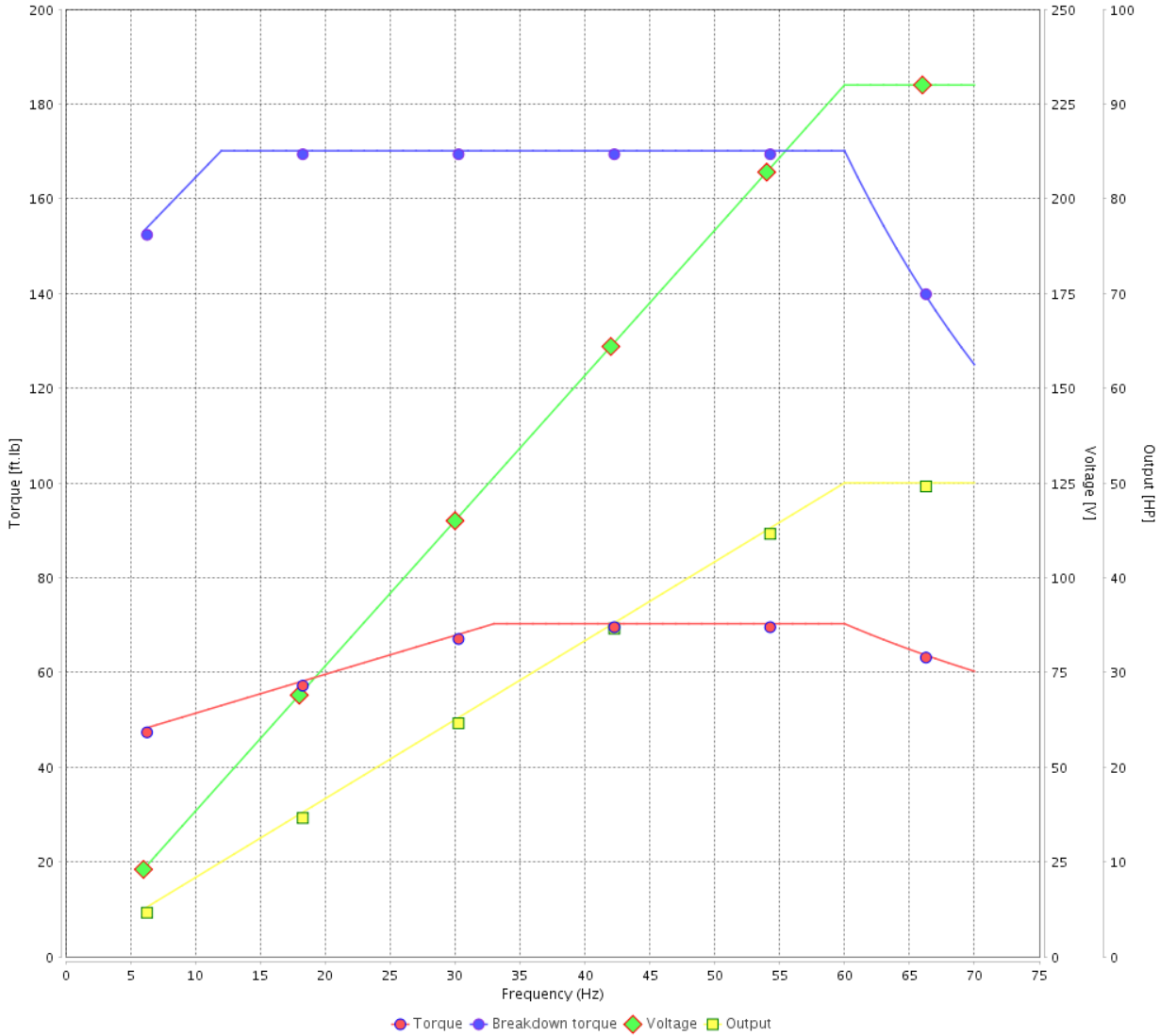
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12770000

Catalog # : 05036ET3E326TS-W22G

VFD OPERATION CURVE



Performance : 230/460 V 60 Hz 2P

Rated current : 112/56.1 A  
 LRC : 6.3  
 Rated torque : 74.0 ft.lb  
 Locked rotor torque : 240 %  
 Breakdown torque : 229 %  
 Rated speed : 3560 rpm

Moment of inertia (J) : 5.75 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				

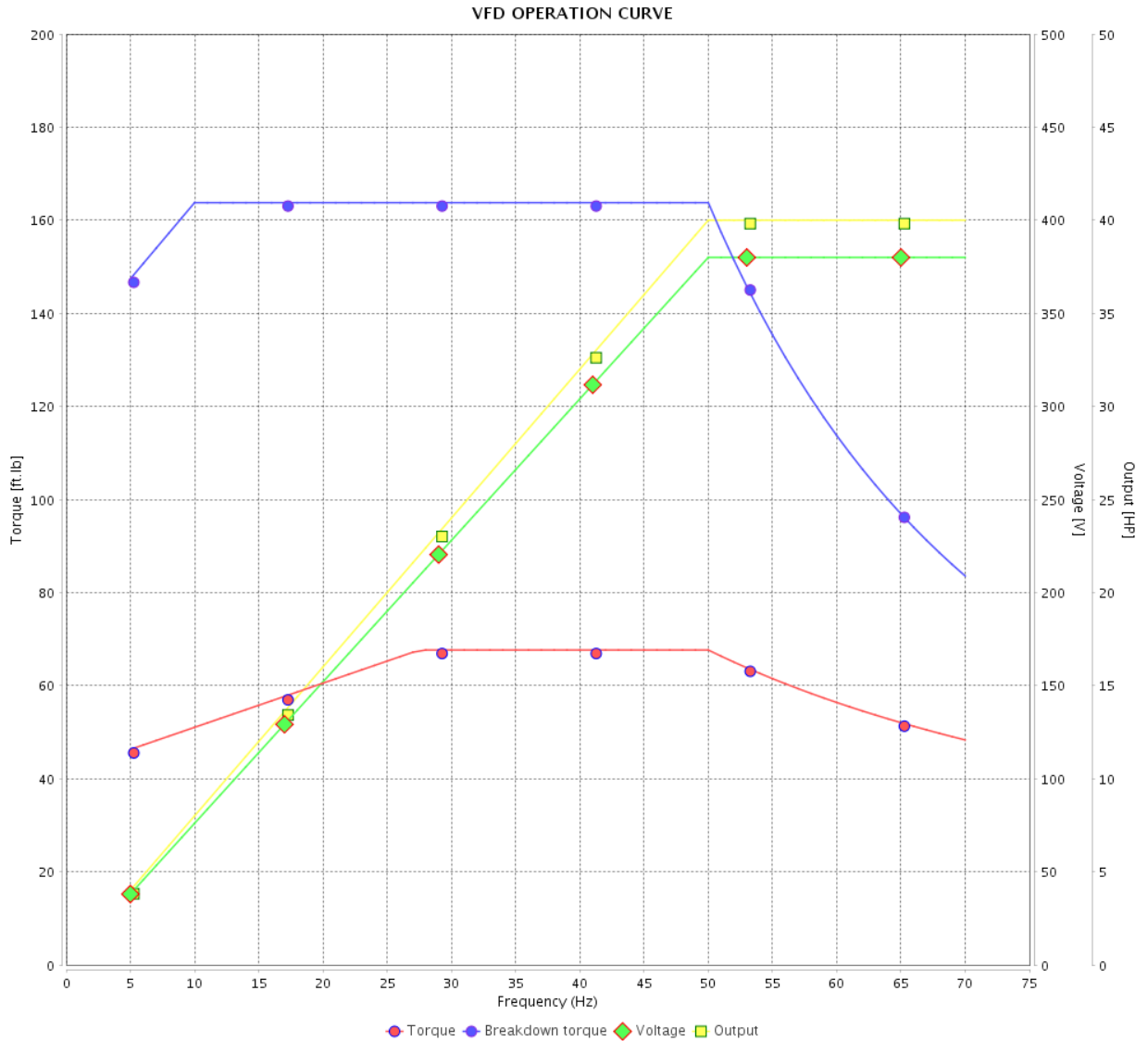
# VFD OPERATION CURVE

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase  
 Product code : 12770000  
 Catalog # : 05036ET3E326TS-W22G



Performance : 380 V 50 Hz 2P IE2

Rated current	: 55.1 A	Moment of inertia (J)	: 5.75 sq.ft.lb
LRC	: 6.6	Duty cycle	: Cont.(S1)
Rated torque	: 71.2 ft.lb	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.00
Breakdown torque	: 229 %	Temperature rise	: 80 K
Rated speed	: 2960 rpm	Design	: B

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

# VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



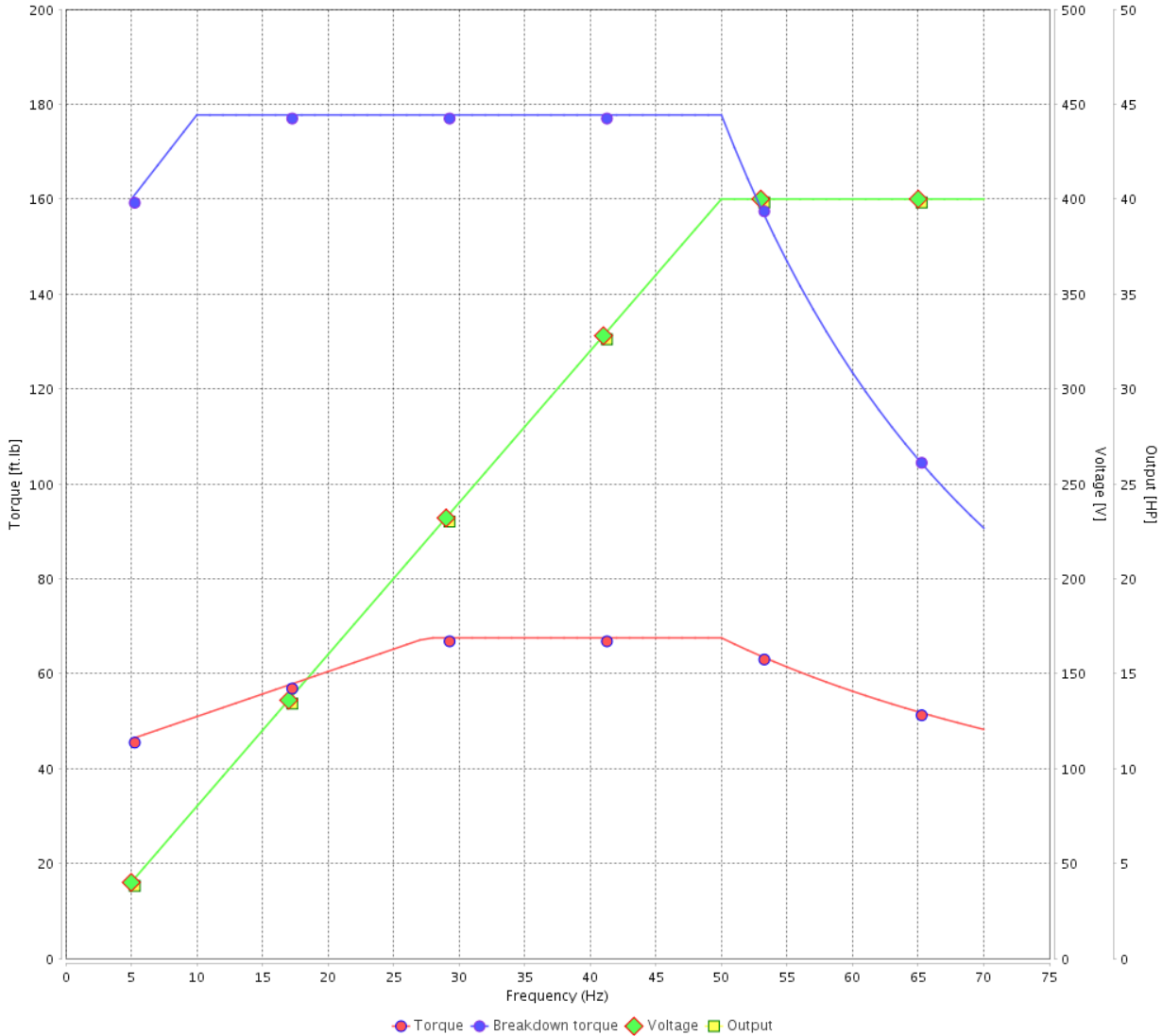
Customer : \_\_\_\_\_

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12770000

Catalog # : 05036ET3E326TS-W22G

VFD OPERATION CURVE



Performance : 400 V 50 Hz 2P IE3

Rated current : 52.7 A  
 LRC : 7.1  
 Rated torque : 71.1 ft.lb  
 Locked rotor torque : 260 %  
 Breakdown torque : 250 %  
 Rated speed : 2965 rpm

Moment of inertia (J) : 5.75 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	Revision
Checked by				
Date				



# VFD OPERATION CURVE

## Three Phase Induction Motor - Squirrel Cage

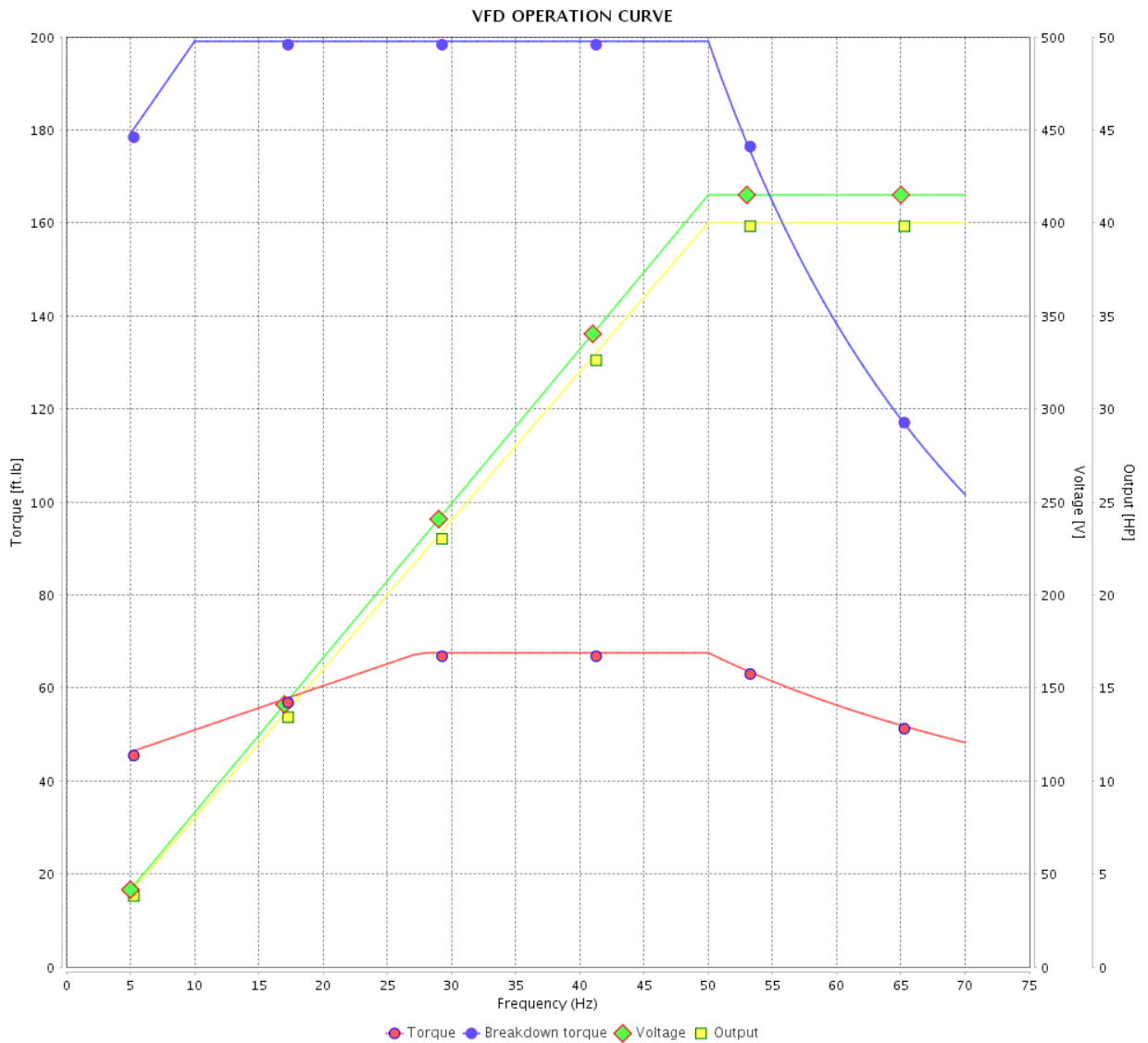


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12770000

Catalog # : 05036ET3E326TS-W22G



Performance : 415 V 50 Hz 2P IE3

Rated current : 50.8 A  
 LRC : 7.2  
 Rated torque : 71.1 ft.lb  
 Locked rotor torque : 280 %  
 Breakdown torque : 280 %  
 Rated speed : 2965 rpm

Moment of inertia (J) : 5.75 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		Revision
Checked by		33 / 36		
Date		12/04/2022		

# VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



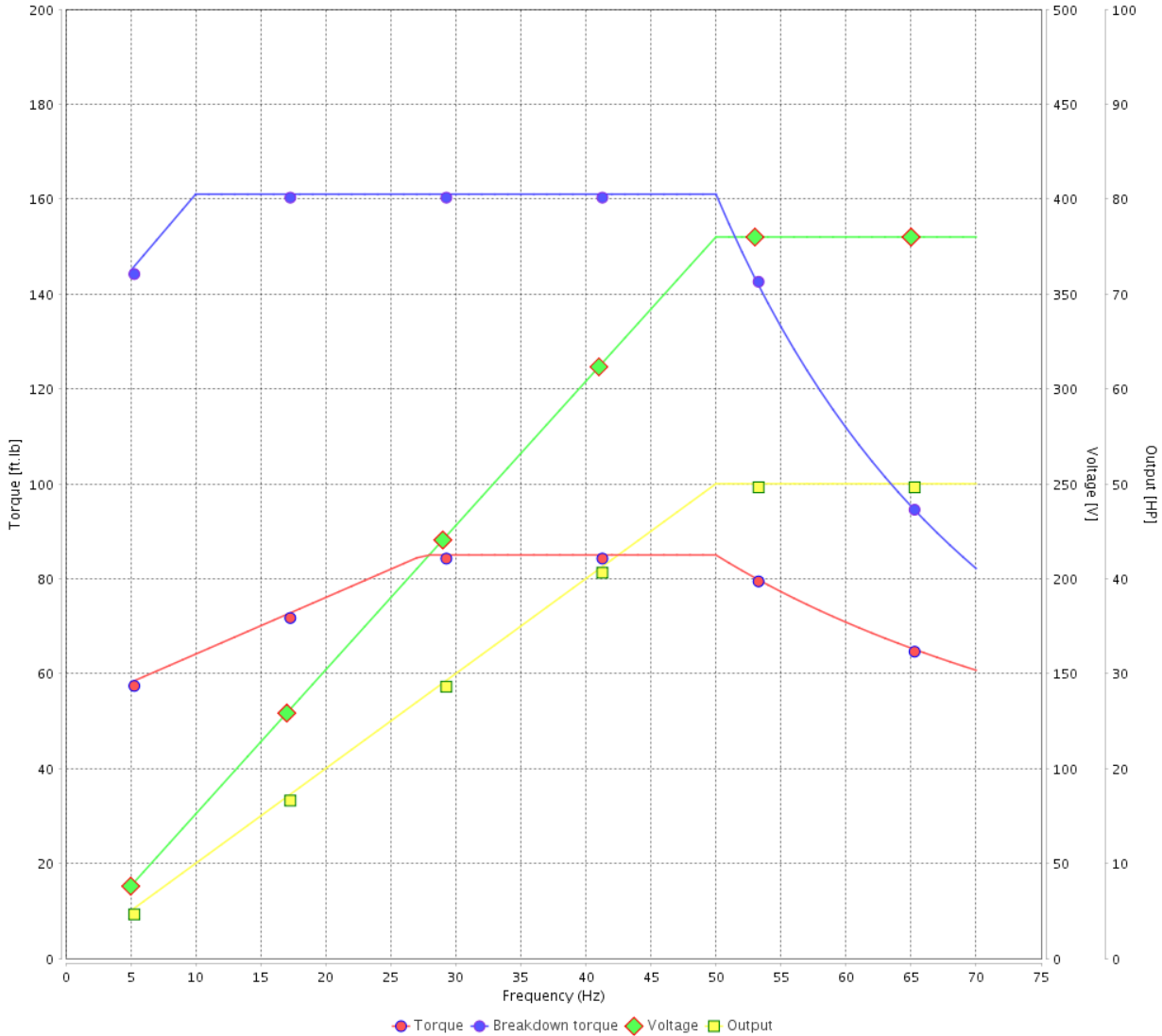
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12770000

Catalog # : 05036ET3E326TS-W22G

VFD OPERATION CURVE



Performance : 380 V 50 Hz 2P

Rated current : 69.4 A  
 LRC : 5.2  
 Rated torque : 89.5 ft.lb  
 Locked rotor torque : 190 %  
 Breakdown torque : 200 %  
 Rated speed : 2935 rpm

Moment of inertia (J) : 5.75 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			

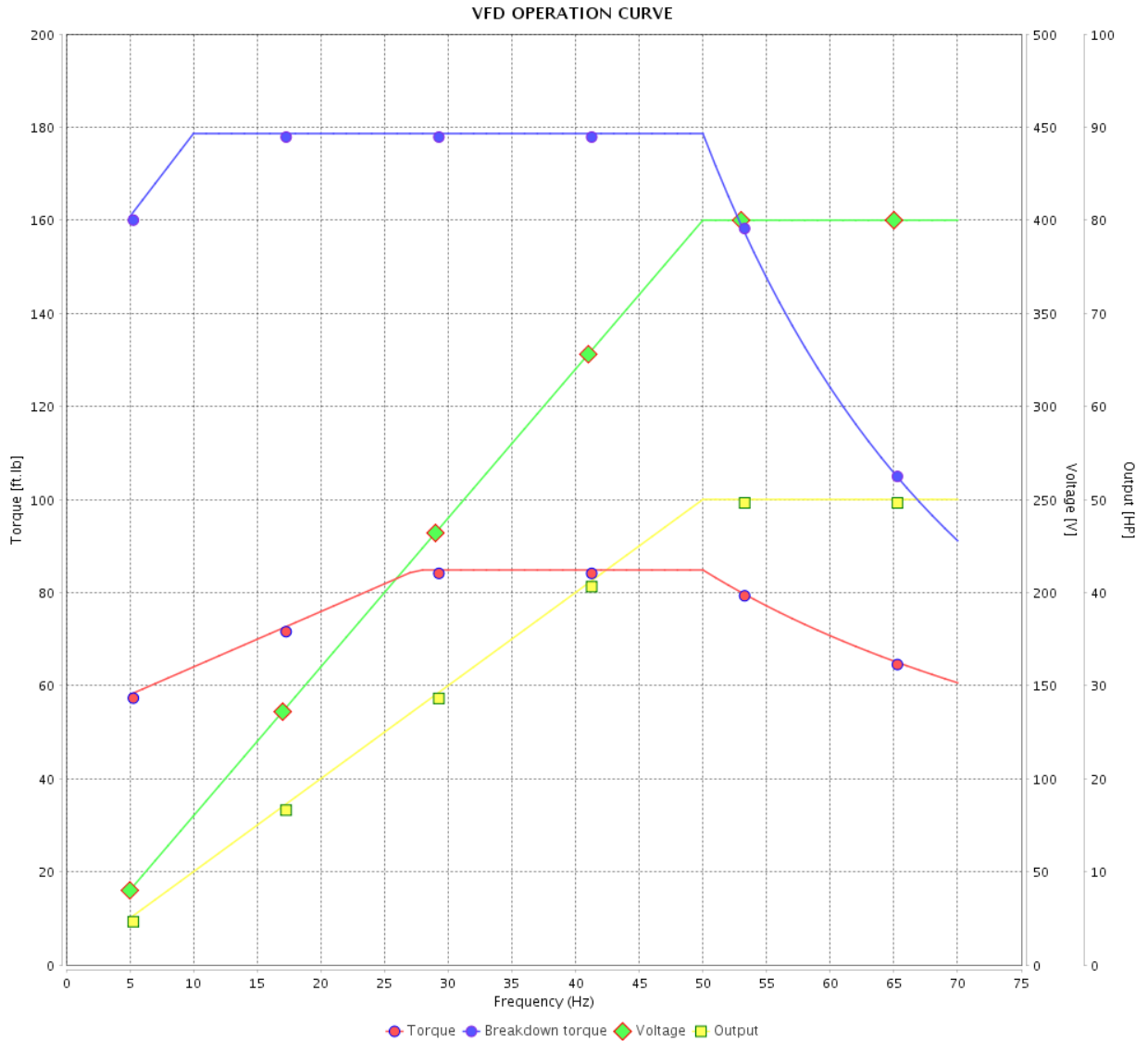
# VFD OPERATION CURVE

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase  
 Product code : 12770000  
 Catalog # : 05036ET3E326TS-W22G



Performance : 400 V 50 Hz 2P IE1

Rated current	: 65.4 A	Moment of inertia (J)	: 5.75 sq.ft.lb
LRC	: 5.6	Duty cycle	: Cont.(S1)
Rated torque	: 89.3 ft.lb	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.00
Breakdown torque	: 200 %	Temperature rise	: 105 K
Rated speed	: 2950 rpm	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

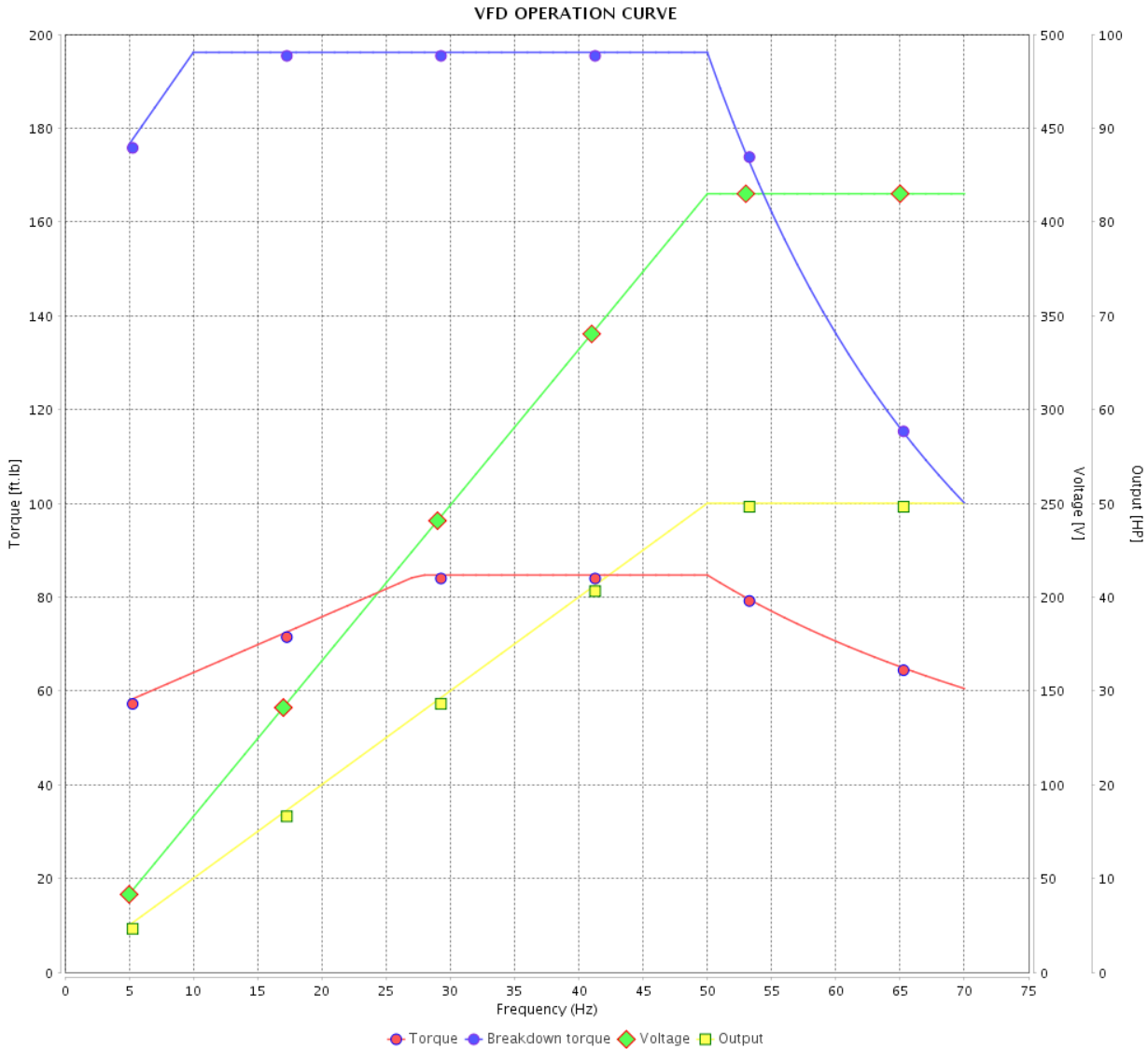


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12770000

Catalog # : 05036ET3E326TS-W22G



Performance : 415 V 50 Hz 2P IE1

Rated current : 62.6 A  
 LRC : 6.2  
 Rated torque : 89.2 ft.lb  
 Locked rotor torque : 229 %  
 Breakdown torque : 220 %  
 Rated speed : 2955 rpm

Moment of inertia (J) : 5.75 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.00  
 Temperature rise : 105 K  
 Design : B

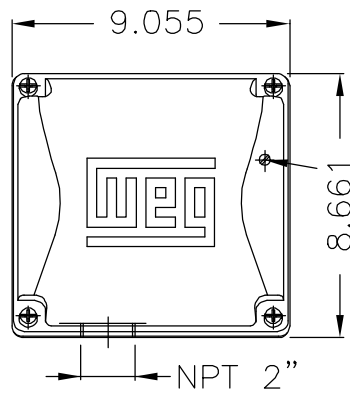
Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page		Revision
Checked by		36 / 36		
Date	12/04/2022			

EIXO/SHAFT	
PADRÃO/STANDARD	X
OPCIONAL/OPTIONAL	
ESPECIAL/SPECIAL	

Dimensões em polegadas  
Dimensions in inches

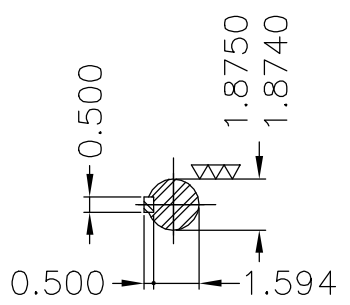
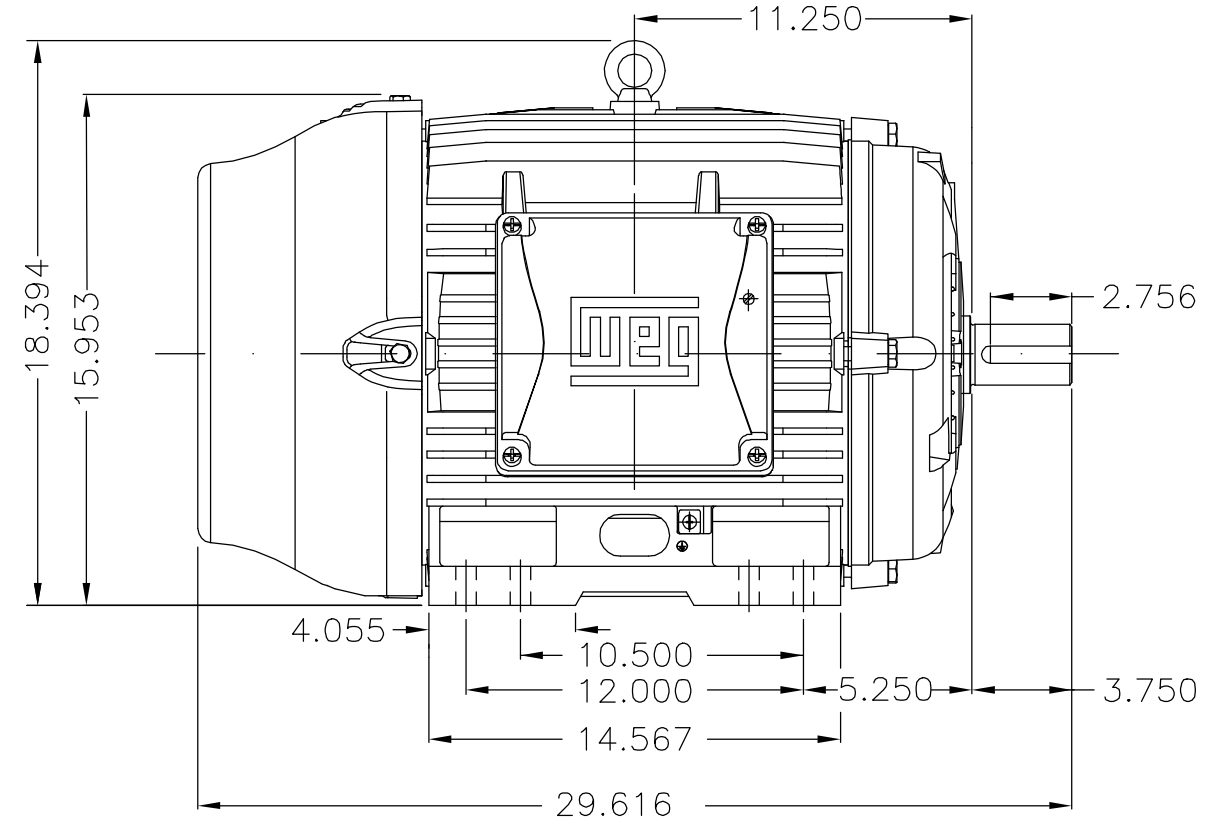
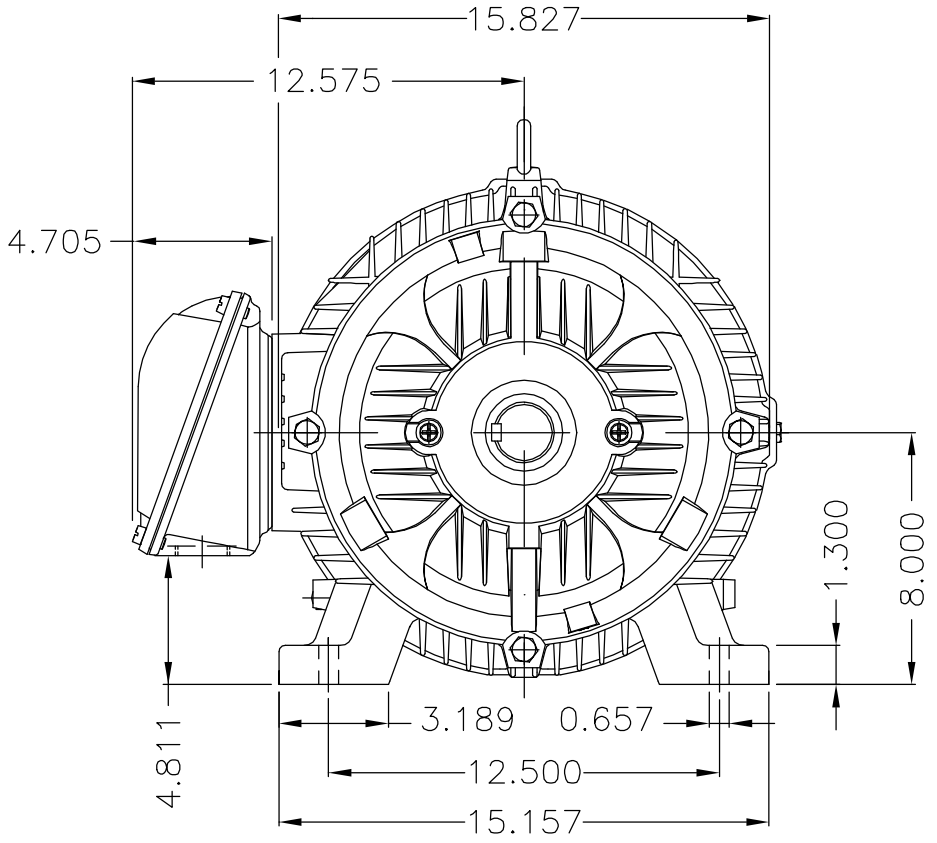
**CERTIFIED WEG MOTORES**  
Certified document.  
Not subject to changes.

THIS IS AN UPDATED REVISION, THE PREVIOUS ONE MUST BE DISREGARDED.



Main terminal box

Grounding for leads 5.2-35mm<sup>2</sup>



DE Shaft End

- Anel interno especial de fixação do rolamento dianteiro / Special internal fastening bearing cap of DE bearing
- Kit porta escova de aterramento AEGIS SGR-70.4-3MFH / Brush holder kit AEGIS SGR-70.4-3MFH
- Plano de pintura 203A / Painting plan 203A
- Forma construtiva NEMA F-1 / Mounting NEMA F-1
- Forma construtiva B3D / Mounting B3R(D)

**WEG ELECTRIC CORPORATION - WEC**

500001555542		ALT. CONFORME CLAIM 415202866	RBOECK	ALISSON	ALISSON	08.02.2019	03
500001037256		REMOVED REPRESENTAÇÃO ATERR	ALESOMZ	ODORIZZI	ODORIZZI	18.07.2015	02
ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	SCARMAGNANI	THREE PHASE W22 MOTOR - NEMA PREMIUM EFF FRAME 324/6TS IP55	10002805159				
CHECKED	DAYANAR		000	03			
RELEASED	DAYANAR						
REL DT	09.04.2014	WMO	JARAGUA DO SUL	ENGENHARIA DE PRODUTO	SHEET	1 / 1	

50 HP	02 Poles	60Hz	413384812/0	MEC	B
40 HP	02 Poles	60Hz	413384810/0	MEC	A



MODEL 05036ET3E326TS-W22G

Inverter Duty Motor  
Severe Duty

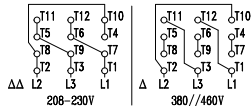




Mod.TE1BFOXON  
CC029A


60Hz: For use on PWM: VT 1000:1,  
CT 20:1, 1.00SF

MADE IN BRAZIL  
12770000

PH3	60Hz	Fr. 324/6TS	1000m.a.s.l.	IP55	TEFC	583lb		
V	230/460			A	112/56.1			
HP	50			kW	37			
SF	1.25			SFA	140/70.1			
RPM	3560			PF	0.89			
AMB	40°C			INS cl.	F DT80K	NEMA NOM EFF	93.0%	
DUTY CONT.				DES B	Code G			
USABLE @208V	124A	SF 1.10	SFA 136					
50HP	37kW	50Hz	380V	69.4A	2935RPM	SF 1.00	EFF 91.0%	



 → 6312-C3 (21g)  
 → 6212-C3 (13g)

 MOBIL POLYREX EM (12000h)  
