DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 13864395

Catalog # : 01518ET3E254T-W22G

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[3]	: 313 lb
Protection degree	: IP55	Moment of inertia (J)	: 2.62 sq.ft.lb
Design	: B		

Output [HP]		15	10	10	10	15	15	15
Poles		4	4	4	4	4	4	4
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		230/460	380	400	415	380	400	415
Rated current [A]		36.0/18.0	15.2	14.8	14.5	21.5	20.5	20.0
L. R. Amperes [A]		230/115	109	115	120	105	111	118
LRC [A]		6.4x(Code G)	7.2x(Code J)	7.8x(Code J)	8.3x(Code K)	4.9x(Code E)	5.4x(Code F)	5.9x(Code G)
No load current [A]		14.4/7.20	6.70	7.10	7.40	7.10	7.60	7.40
Rated speed [RPM]		1770	1475	1480	1480	1455	1460	1465
Slip [%]		1.67	1.67	1.33	1.33	3.00	2.67	2.33
Rated torque [ft.lb]		44.5	35.6	35.5	35.5	54.1	54.0	53.8
Locked rotor torque [%]		220	250	280	310	160	200	210
Breakdown torque [%]		260	300	340	370	200	220	240
Service factor		1.25	1.25	1.25	1.25	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K	80 K	80 K	80 K
Locked rotor time		30s (cold) 17s (hot)	45s (cold) 25s (hot)	39s (cold) 22s (hot)	36s (cold) 20s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)
Noise level[2]		64.0 dB(A)	61.0 dB(A)	61.0 dB(A)	61.0 dB(A)	61.0 dB(A)	61.0 dB(A)	61.0 dB(A)
Efficiency (%)	25%	90.2	88.5	88.1	87.6	90.8	90.8	90.8
	50%	91.0	88.8	88.6	88.3	91.0	91.0	91.0
	75%	91.7	90.3	90.3	90.3	90.2	91.0	91.0
	100%	92.4	90.4	90.6	90.8	90.2	91.0	91.0
Power Factor	25%	0.43	0.40	0.37	0.35	0.49	0.46	0.45
	50%	0.68	0.65	0.62	0.59	0.74	0.71	0.69
	75%	0.78	0.77	0.74	0.72	0.82	0.80	0.79
	100%	0.83	0.83	0.81	0.79	0.86	0.85	0.84

		Drive end	Non drive end
Bearing type	:	6309 C3	6209 C3
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	13 g	9 g
Lubricant type	:	Mobil Polyrex EM	

Foundation loads

Max. traction : 462 lb

Max. compression : 775 lb

Notes

USABLE @208V 39.8A SF 1.15 SFA 45.8A

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

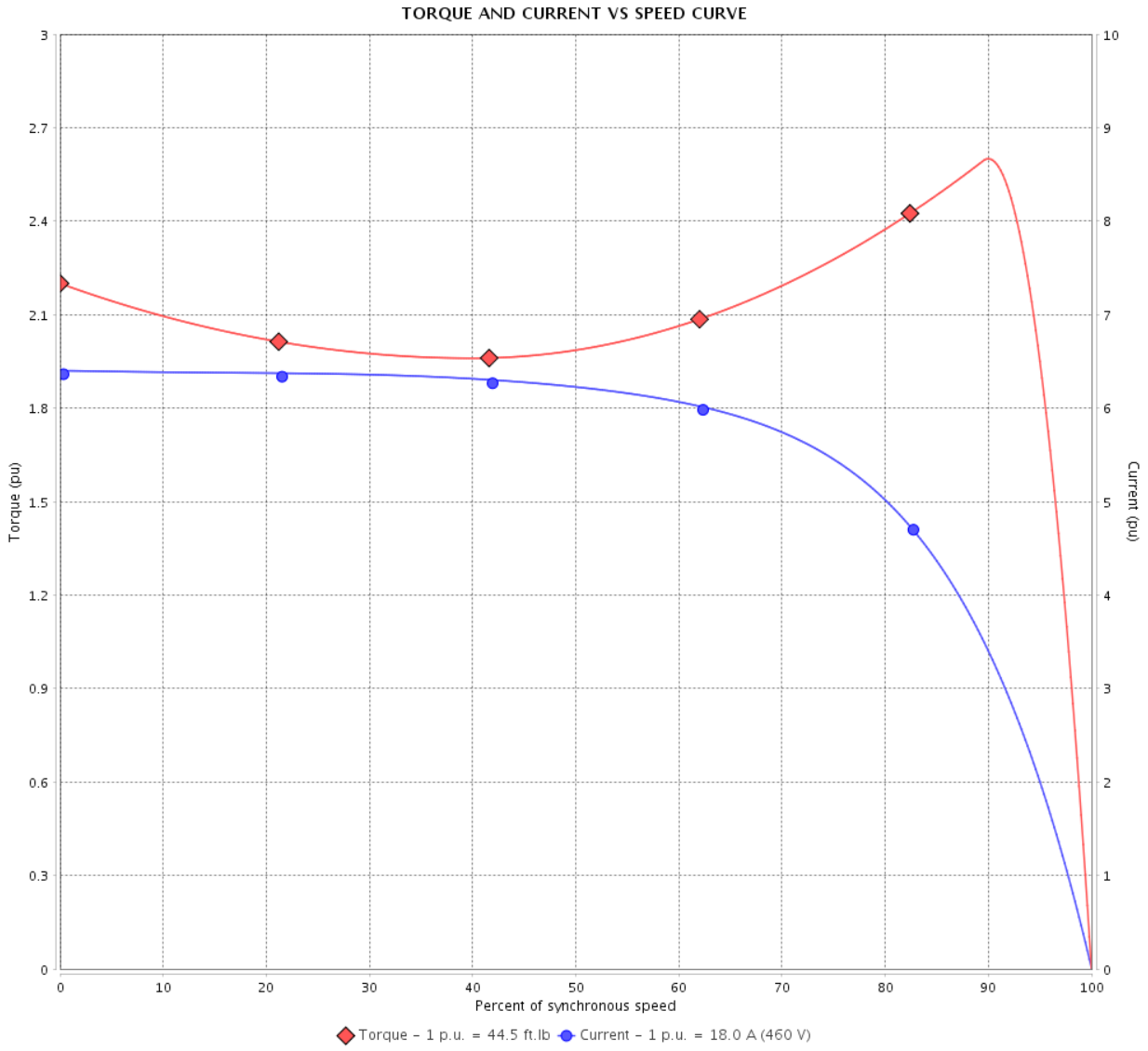
Performed by				
Checked by			Page	Revision
Date	01/06/2022		1 / 36	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: NEMA Premium Efficiency Three-Phase	Product code :	13864395
		Catalog # :	01518ET3E254T-W22G



Performance	: 230/460 V 60 Hz 4P

Rated current	: 36.0/18.0 A	Moment of inertia (J)	: 2.62 sq.ft.lb
LRC	: 6.4	Duty cycle	: Cont.(S1)
Rated torque	: 44.5 ft.lb	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.25
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1770 rpm	Design	: B

Locked rotor time	: 30s (cold) 17s (hot)

Rev.	Changes Summary	Performed	Checked	Date

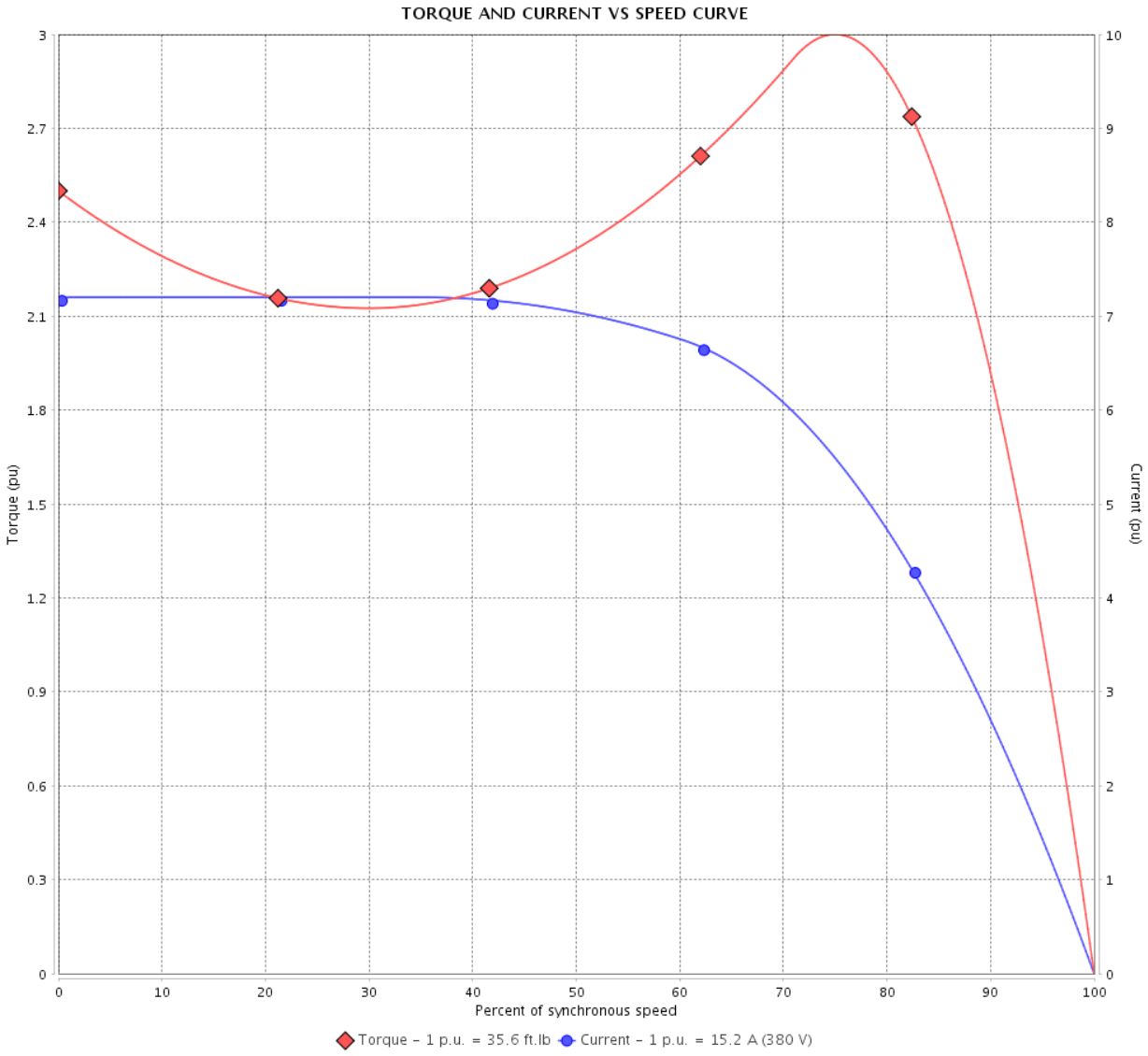
Performed by				
Checked by			Page	Revision
Date	01/06/2022		2 / 36	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: NEMA Premium Efficiency Three-Phase	Product code :	13864395
		Catalog # :	01518ET3E254T-W22G



Performance	: 380 V 50 Hz 4P IE3

Rated current	: 15.2 A	Moment of inertia (J)	: 2.62 sq.ft.lb
LRC	: 7.2	Duty cycle	: Cont.(S1)
Rated torque	: 35.6 ft.lb	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.25
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1475 rpm	Design	: B

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

Rev.	Changes Summary	Performed	Checked	Date

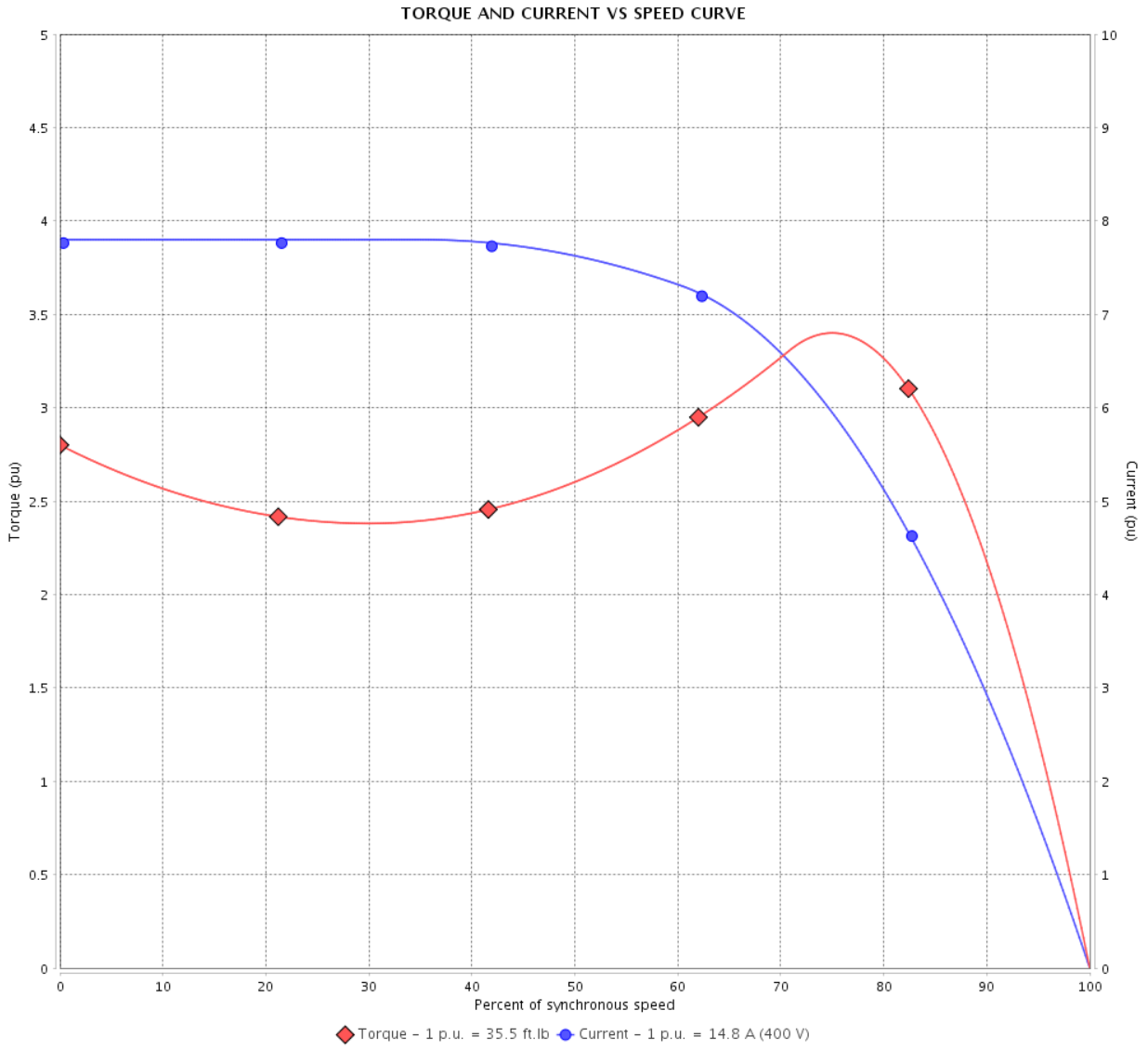
Performed by				
Checked by			Page	Revision
Date	01/06/2022		3 / 36	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: NEMA Premium Efficiency Three-Phase	Product code :	13864395
		Catalog # :	01518ET3E254T-W22G



Performance	: 400 V 50 Hz 4P IE3

Rated current	: 14.8 A	Moment of inertia (J)	: 2.62 sq.ft.lb
LRC	: 7.8	Duty cycle	: Cont.(S1)
Rated torque	: 35.5 ft.lb	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	: 1.25
Breakdown torque	: 340 %	Temperature rise	: 80 K
Rated speed	: 1480 rpm	Design	: B

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

Rev.	Changes Summary	Performed	Checked	Date

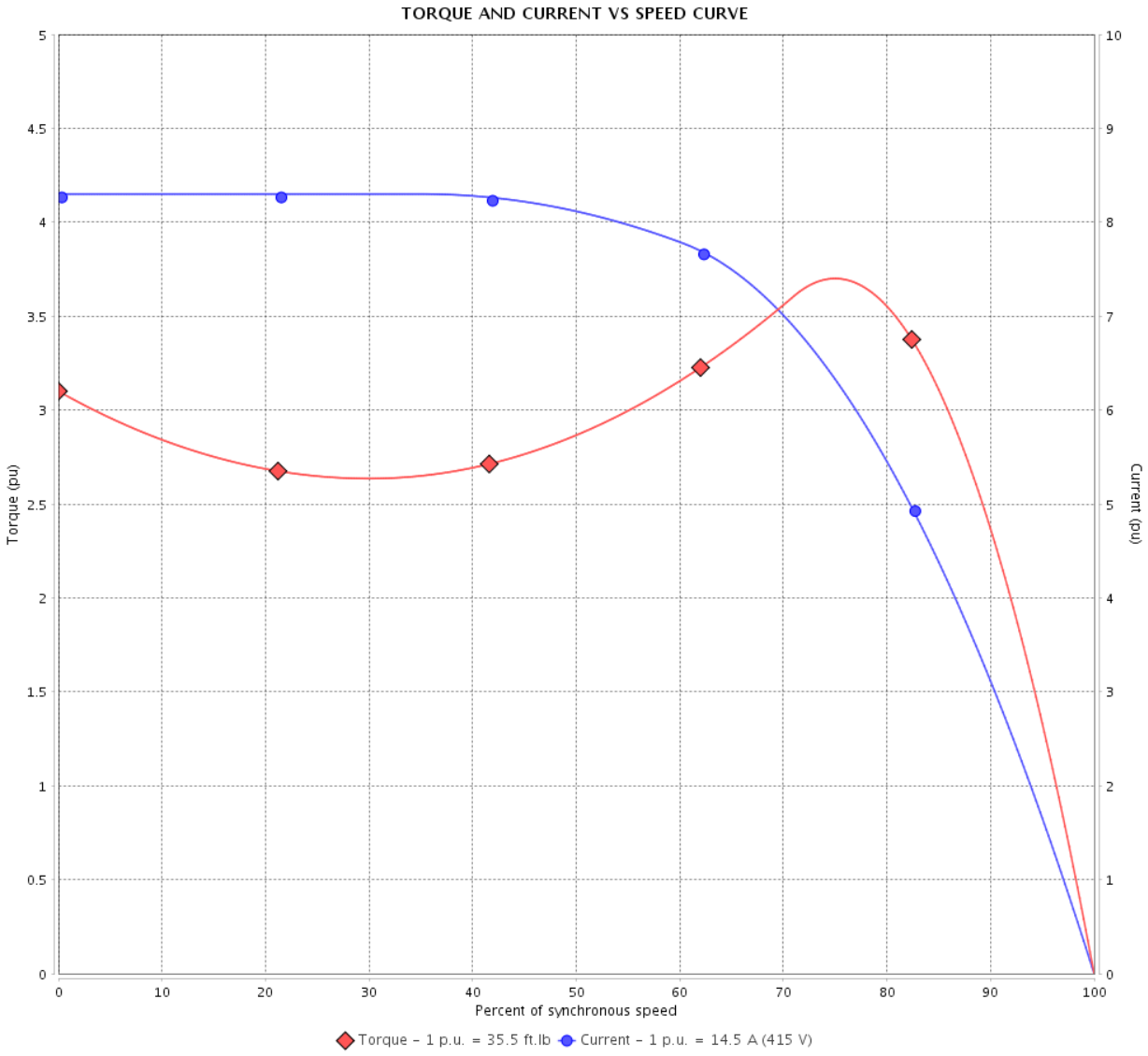
Performed by				
Checked by			Page	Revision
Date	01/06/2022		4 / 36	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: NEMA Premium Efficiency Three-Phase	Product code :	13864395
		Catalog # :	01518ET3E254T-W22G



Performance	: 415 V 50 Hz 4P IE3

Rated current	: 14.5 A	Moment of inertia (J)	: 2.62 sq.ft.lb
LRC	: 8.3	Duty cycle	: Cont.(S1)
Rated torque	: 35.5 ft.lb	Insulation class	: F
Locked rotor torque	: 310 %	Service factor	: 1.25
Breakdown torque	: 370 %	Temperature rise	: 80 K
Rated speed	: 1480 rpm	Design	: B

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

Rev.	Changes Summary	Performed	Checked	Date

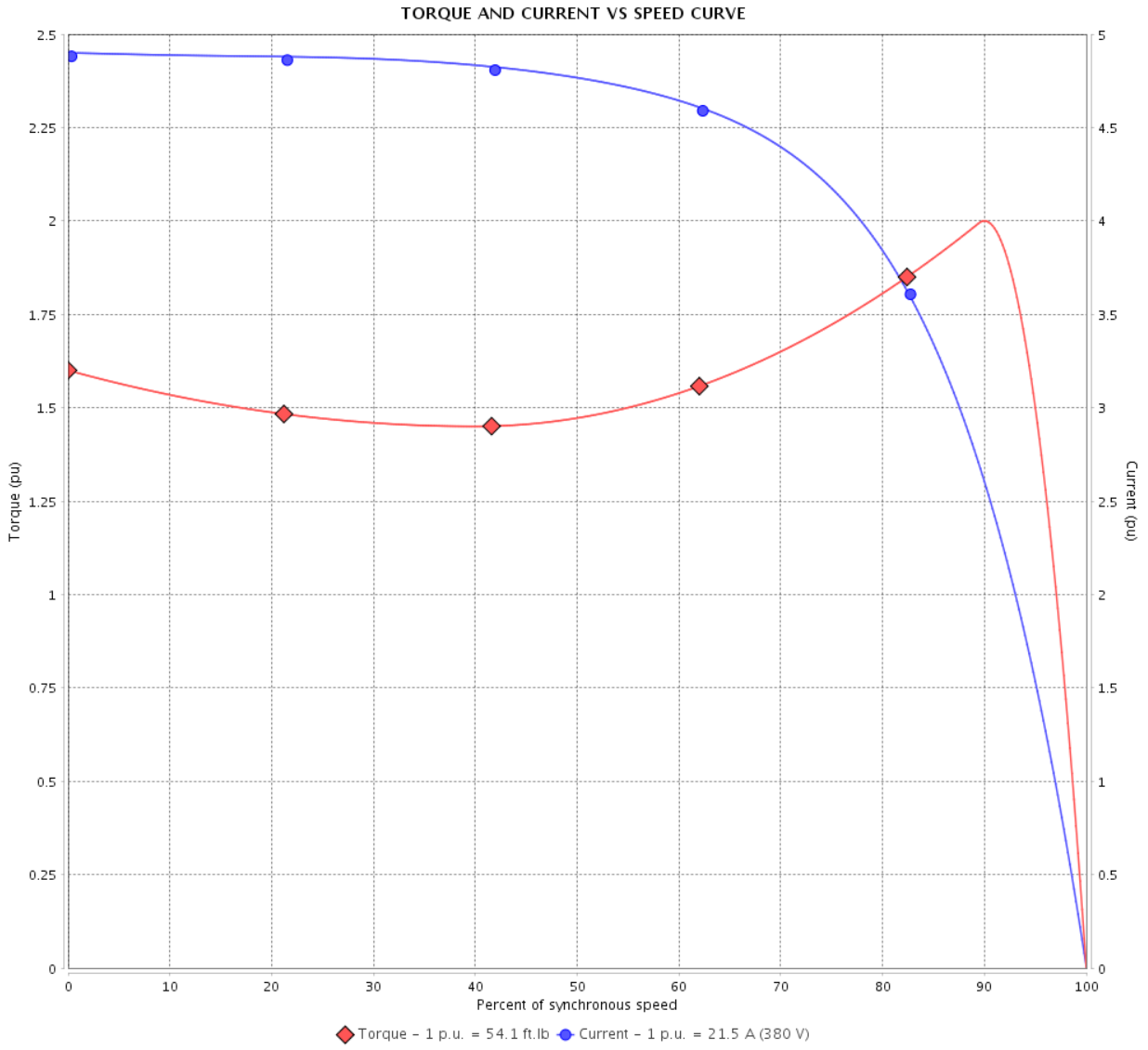
Performed by				
Checked by			Page	Revision
Date	01/06/2022		5 / 36	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: NEMA Premium Efficiency Three-Phase	Product code :	13864395
		Catalog # :	01518ET3E254T-W22G



Performance	: 380 V 50 Hz 4P IE2

Rated current	: 21.5 A	Moment of inertia (J)	: 2.62 sq.ft.lb
LRC	: 4.9	Duty cycle	: Cont.(S1)
Rated torque	: 54.1 ft.lb	Insulation class	: F
Locked rotor torque	: 160 %	Service factor	: 1.00
Breakdown torque	: 200 %	Temperature rise	: 80 K
Rated speed	: 1455 rpm	Design	: B

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

Rev.	Changes Summary	Performed	Checked	Date

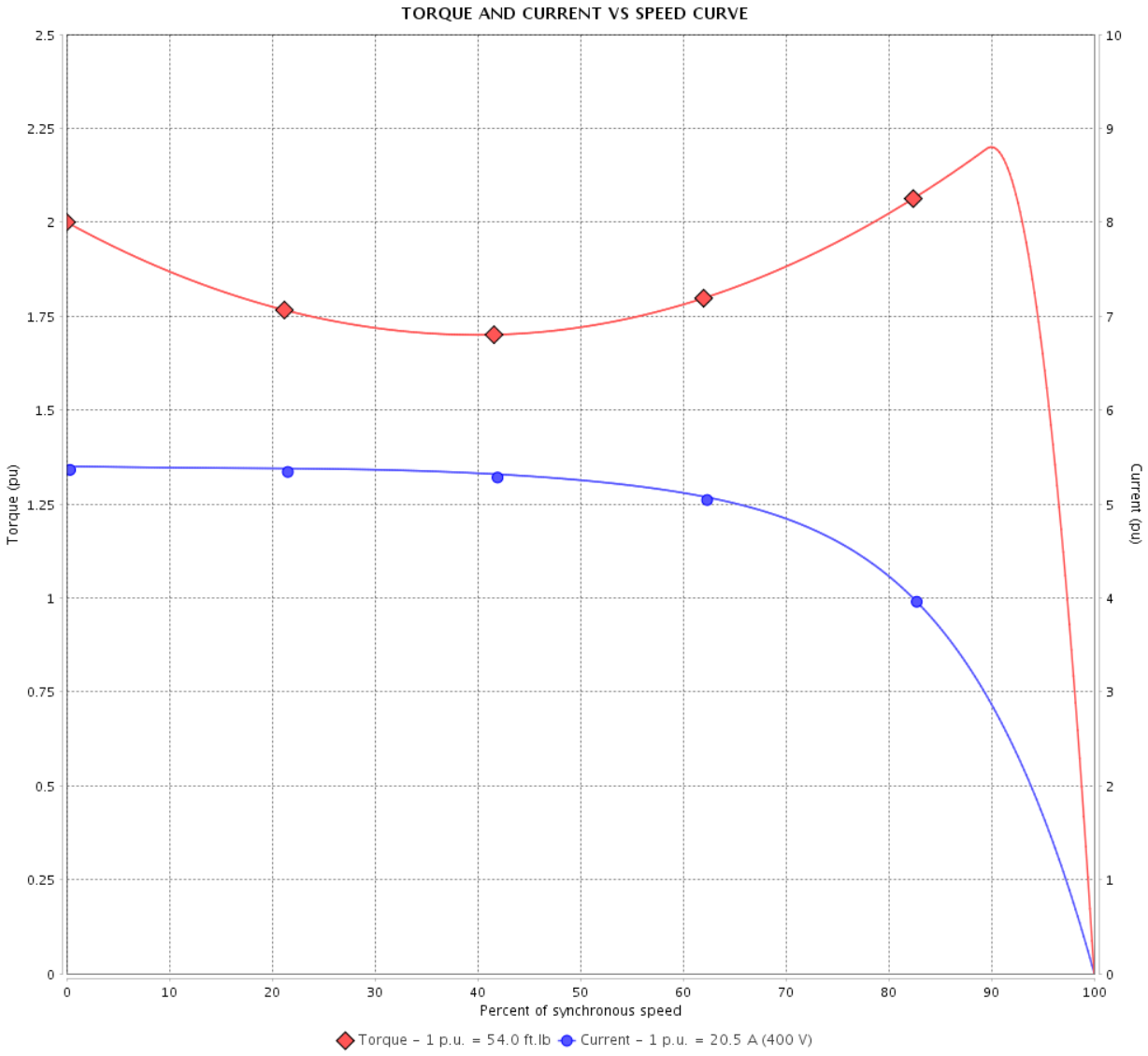
Performed by				
Checked by			Page	Revision
Date	01/06/2022		6 / 36	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: NEMA Premium Efficiency Three-Phase	Product code :	13864395
		Catalog # :	01518ET3E254T-W22G



Performance	: 400 V 50 Hz 4P IE2

Rated current	: 20.5 A	Moment of inertia (J)	: 2.62 sq.ft.lb
LRC	: 5.4	Duty cycle	: Cont.(S1)
Rated torque	: 54.0 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.00
Breakdown torque	: 220 %	Temperature rise	: 80 K
Rated speed	: 1460 rpm	Design	: B

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

Rev.	Changes Summary	Performed	Checked	Date

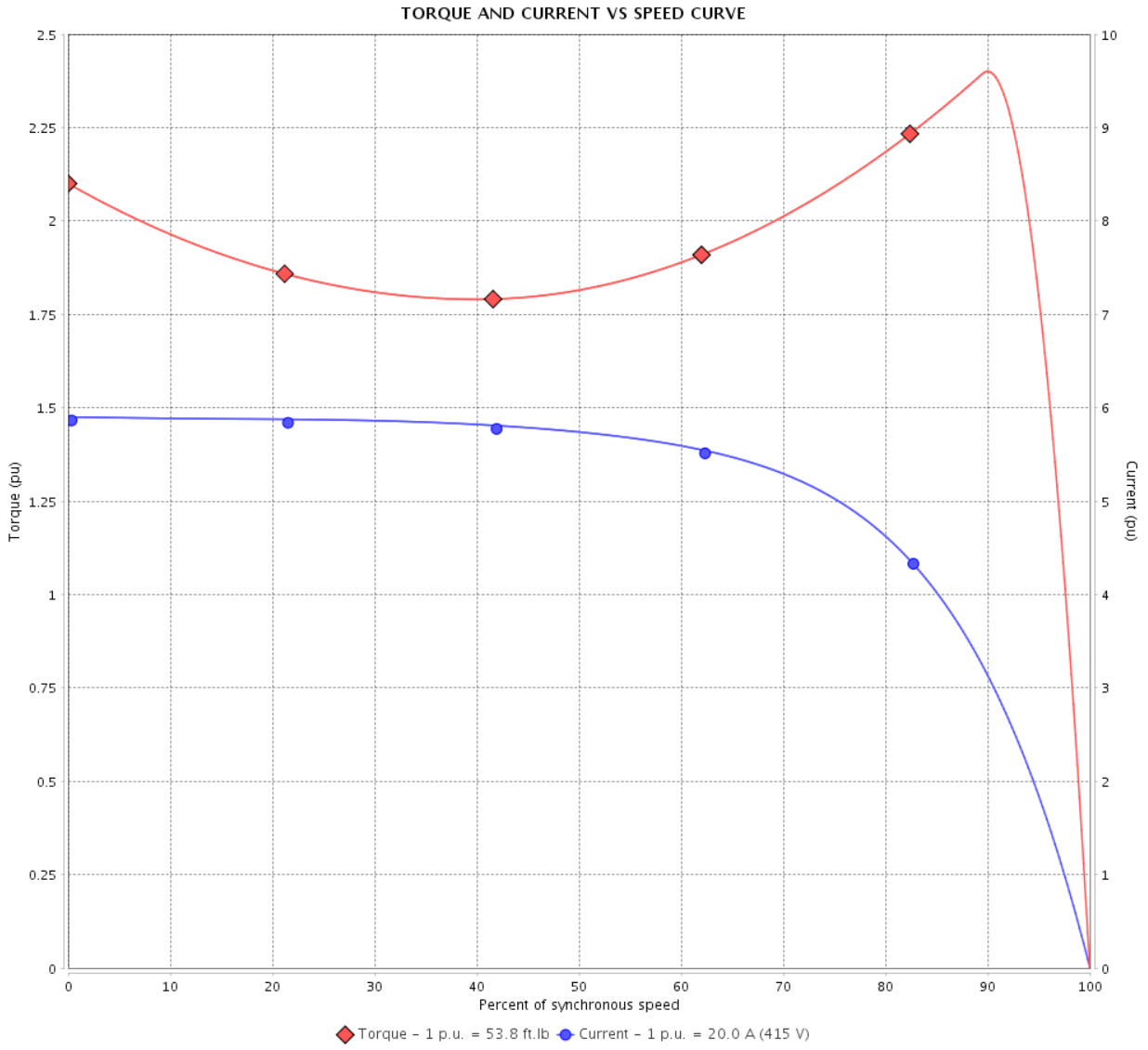
Performed by				
Checked by			Page	Revision
Date	01/06/2022		7 / 36	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: NEMA Premium Efficiency Three-Phase	Product code :	13864395
		Catalog # :	01518ET3E254T-W22G



Performance	: 415 V 50 Hz 4P IE2

Rated current	: 20.0 A	Moment of inertia (J)	: 2.62 sq.ft.lb
LRC	: 5.9	Duty cycle	: Cont.(S1)
Rated torque	: 53.8 ft.lb	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.00
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 1465 rpm	Design	: B

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

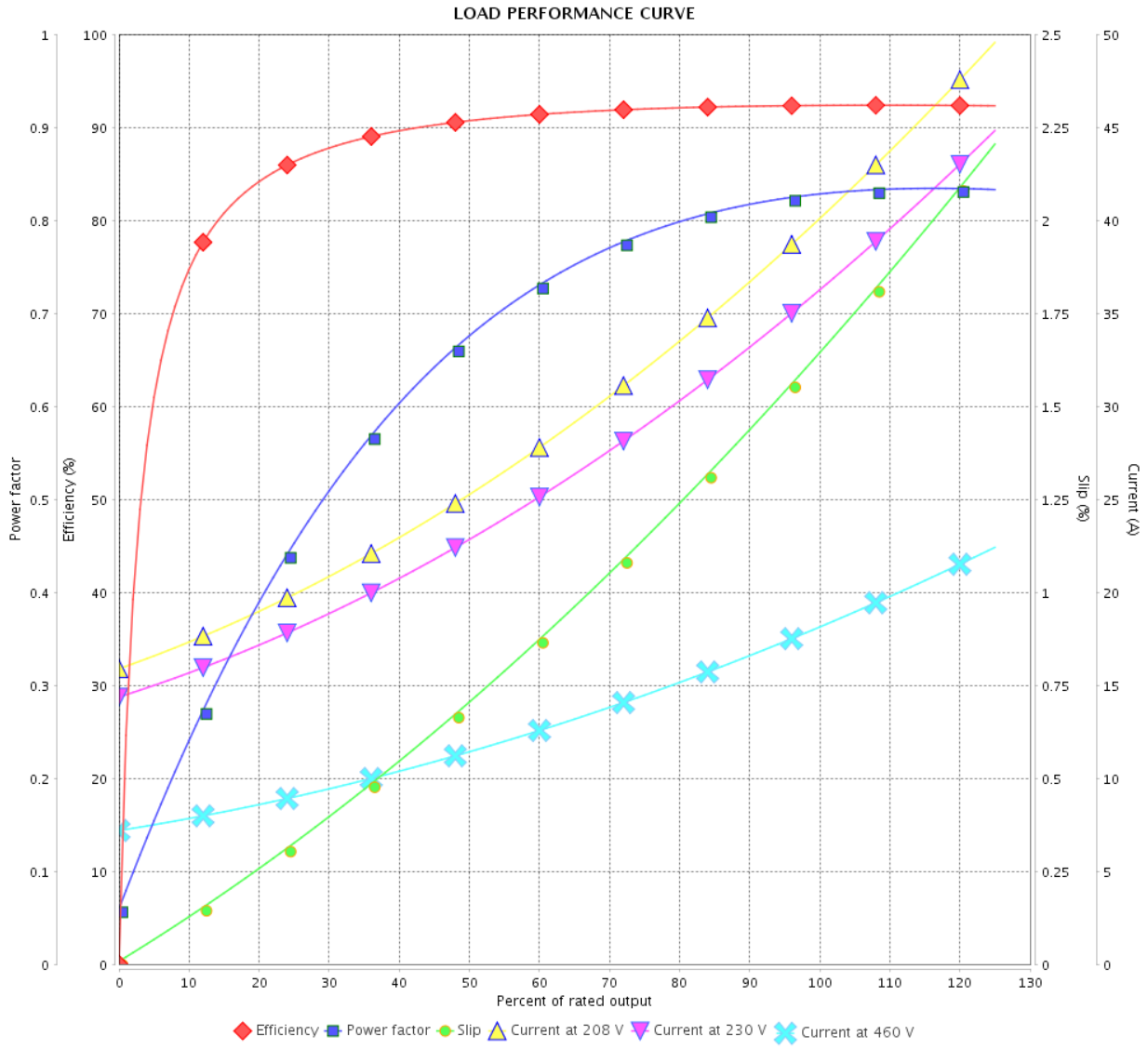
Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	01/06/2022		8 / 36	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: NEMA Premium Efficiency Three-Phase	Product code :	13864395
		Catalog # :	01518ET3E254T-W22G



Performance	: 230/460 V 60 Hz 4P		
Rated current	: 36.0/18.0 A	Moment of inertia (J)	: 2.62 sq.ft.lb
LRC	: 6.4	Duty cycle	: Cont.(S1)
Rated torque	: 44.5 ft.lb	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.25
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1770 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date

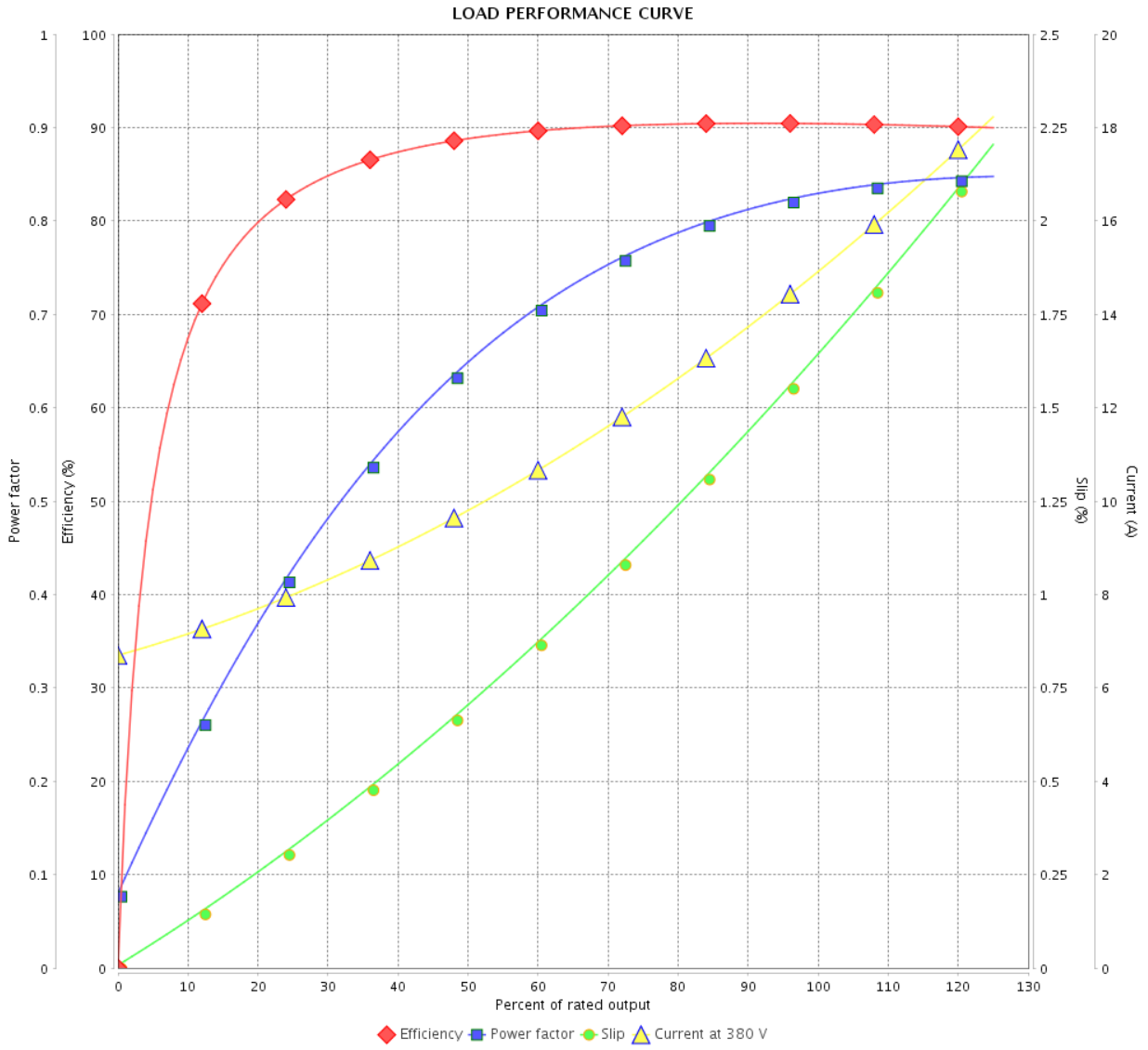
Performed by				
Checked by			Page	Revision
Date	01/06/2022		9 / 36	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: NEMA Premium Efficiency Three-Phase	Product code :	13864395
		Catalog # :	01518ET3E254T-W22G



Performance	: 380 V 50 Hz 4P IE3

Rated current	: 15.2 A	Moment of inertia (J)	: 2.62 sq.ft.lb
LRC	: 7.2	Duty cycle	: Cont.(S1)
Rated torque	: 35.6 ft.lb	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.25
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1475 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date

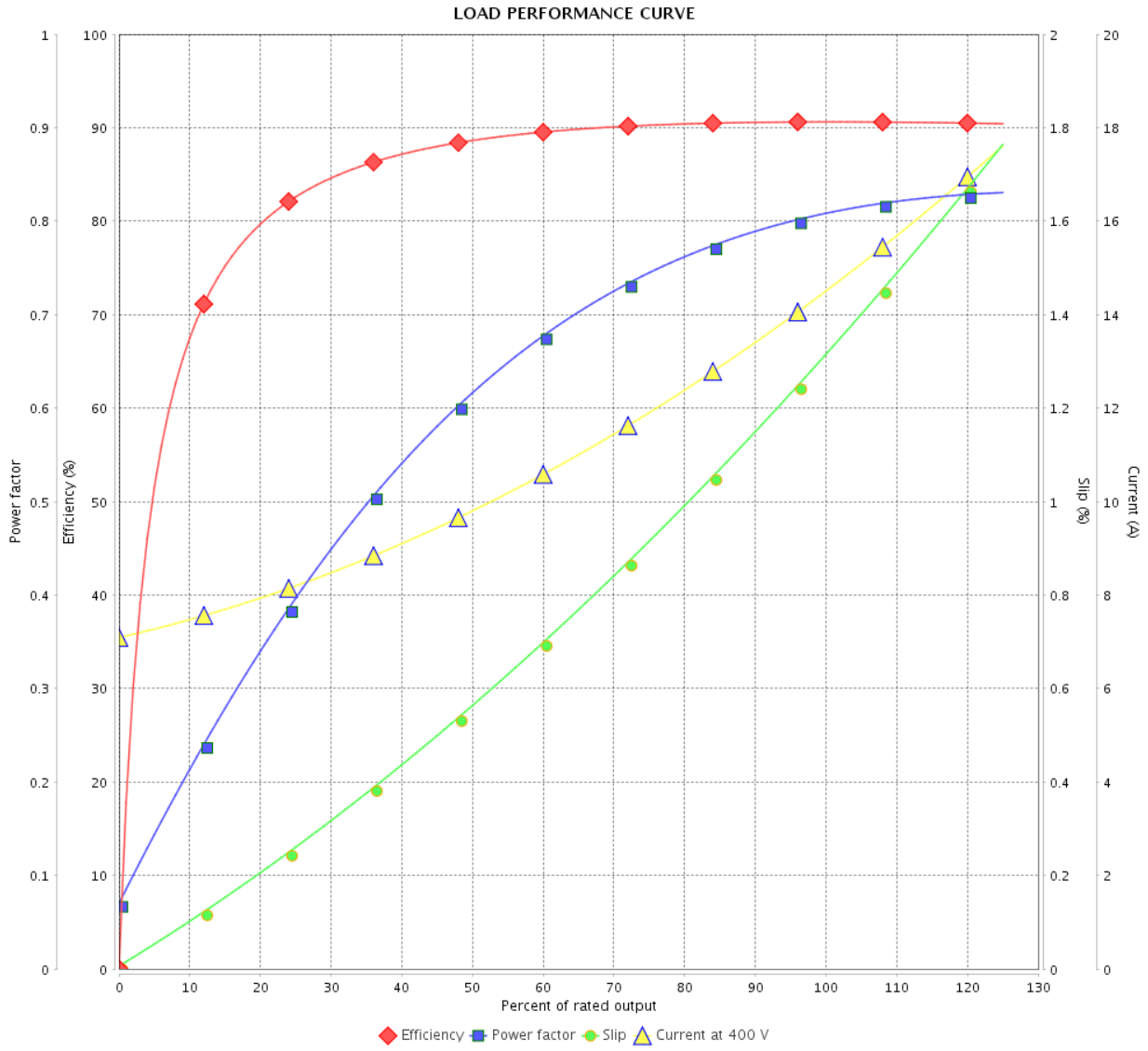
Performed by				
Checked by			Page	Revision
Date	01/06/2022		10 / 36	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: NEMA Premium Efficiency Three-Phase	Product code :	13864395
		Catalog # :	01518ET3E254T-W22G



Performance	: 400 V 50 Hz 4P IE3

Rated current	: 14.8 A	Moment of inertia (J)	: 2.62 sq.ft.lb
LRC	: 7.8	Duty cycle	: Cont.(S1)
Rated torque	: 35.5 ft.lb	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	: 1.25
Breakdown torque	: 340 %	Temperature rise	: 80 K
Rated speed	: 1480 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date

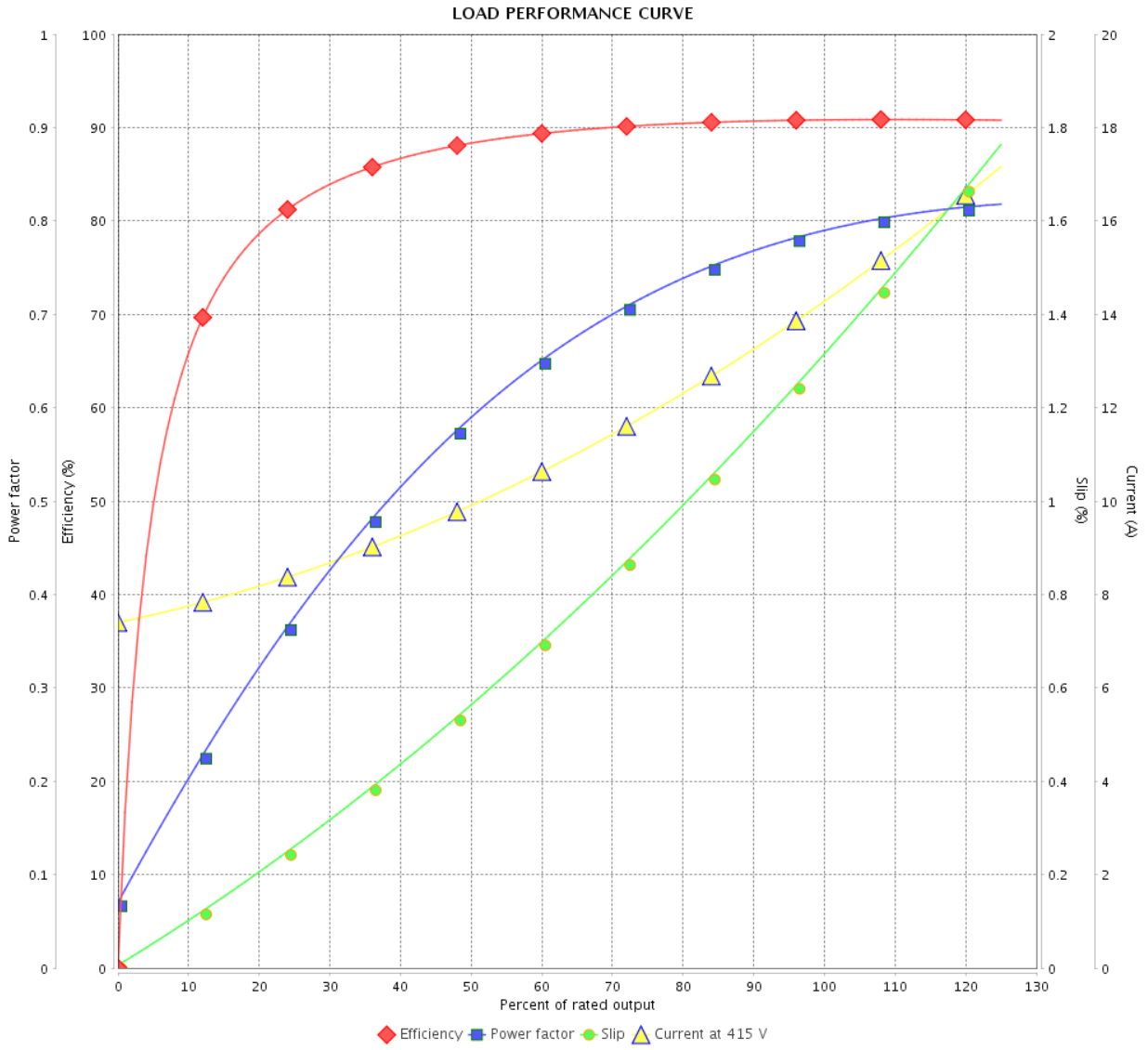
Performed by				
Checked by			Page	Revision
Date	01/06/2022		11 / 36	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: NEMA Premium Efficiency Three-Phase	Product code :	13864395
		Catalog # :	01518ET3E254T-W22G



Performance	: 415 V 50 Hz 4P IE3

Rated current	: 14.5 A	Moment of inertia (J)	: 2.62 sq.ft.lb
LRC	: 8.3	Duty cycle	: Cont.(S1)
Rated torque	: 35.5 ft.lb	Insulation class	: F
Locked rotor torque	: 310 %	Service factor	: 1.25
Breakdown torque	: 370 %	Temperature rise	: 80 K
Rated speed	: 1480 rpm	Design	: B

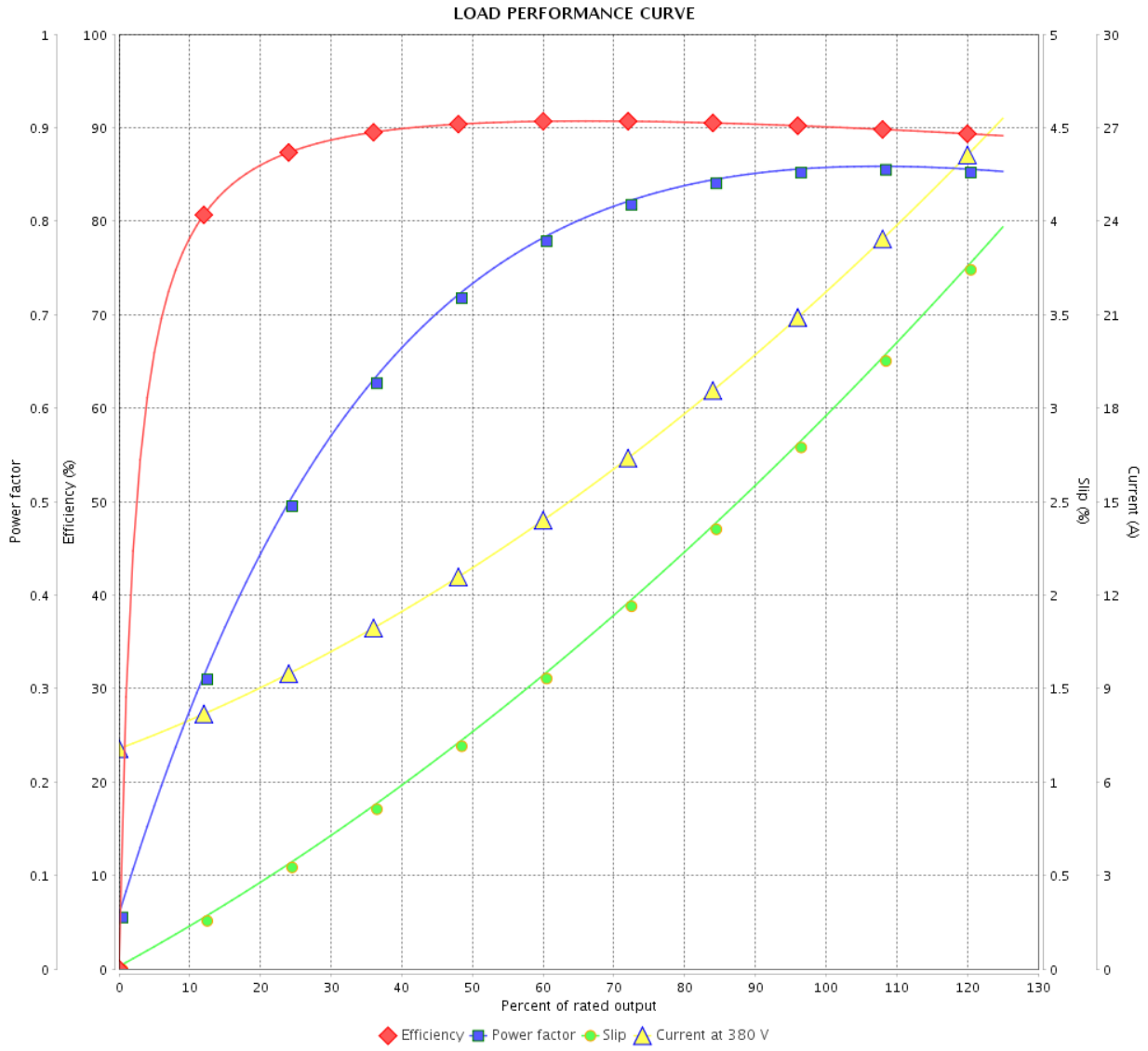
Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	01/06/2022		12 / 36	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: NEMA Premium Efficiency Three-Phase	Product code :	13864395
		Catalog # :	01518ET3E254T-W22G



Performance	: 380 V 50 Hz 4P IE2		
Rated current	: 21.5 A	Moment of inertia (J)	: 2.62 sq.ft.lb
LRC	: 4.9	Duty cycle	: Cont.(S1)
Rated torque	: 54.1 ft.lb	Insulation class	: F
Locked rotor torque	: 160 %	Service factor	: 1.00
Breakdown torque	: 200 %	Temperature rise	: 80 K
Rated speed	: 1455 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date

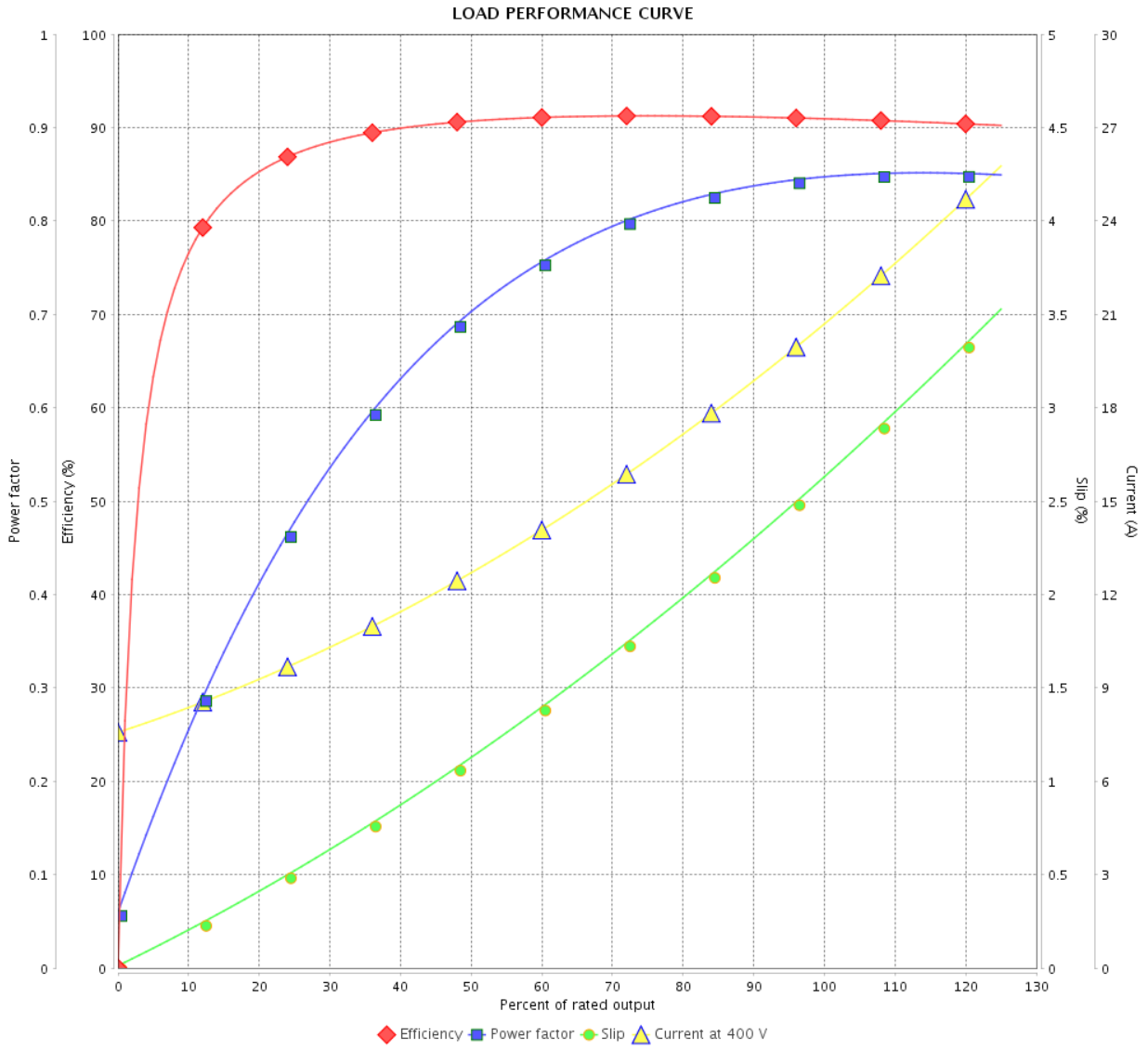
Performed by				
Checked by			Page	Revision
Date	01/06/2022		13 / 36	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: NEMA Premium Efficiency Three-Phase	Product code :	13864395
		Catalog # :	01518ET3E254T-W22G



Performance	: 400 V 50 Hz 4P IE2

Rated current	: 20.5 A	Moment of inertia (J)	: 2.62 sq.ft.lb
LRC	: 5.4	Duty cycle	: Cont.(S1)
Rated torque	: 54.0 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.00
Breakdown torque	: 220 %	Temperature rise	: 80 K
Rated speed	: 1460 rpm	Design	: B

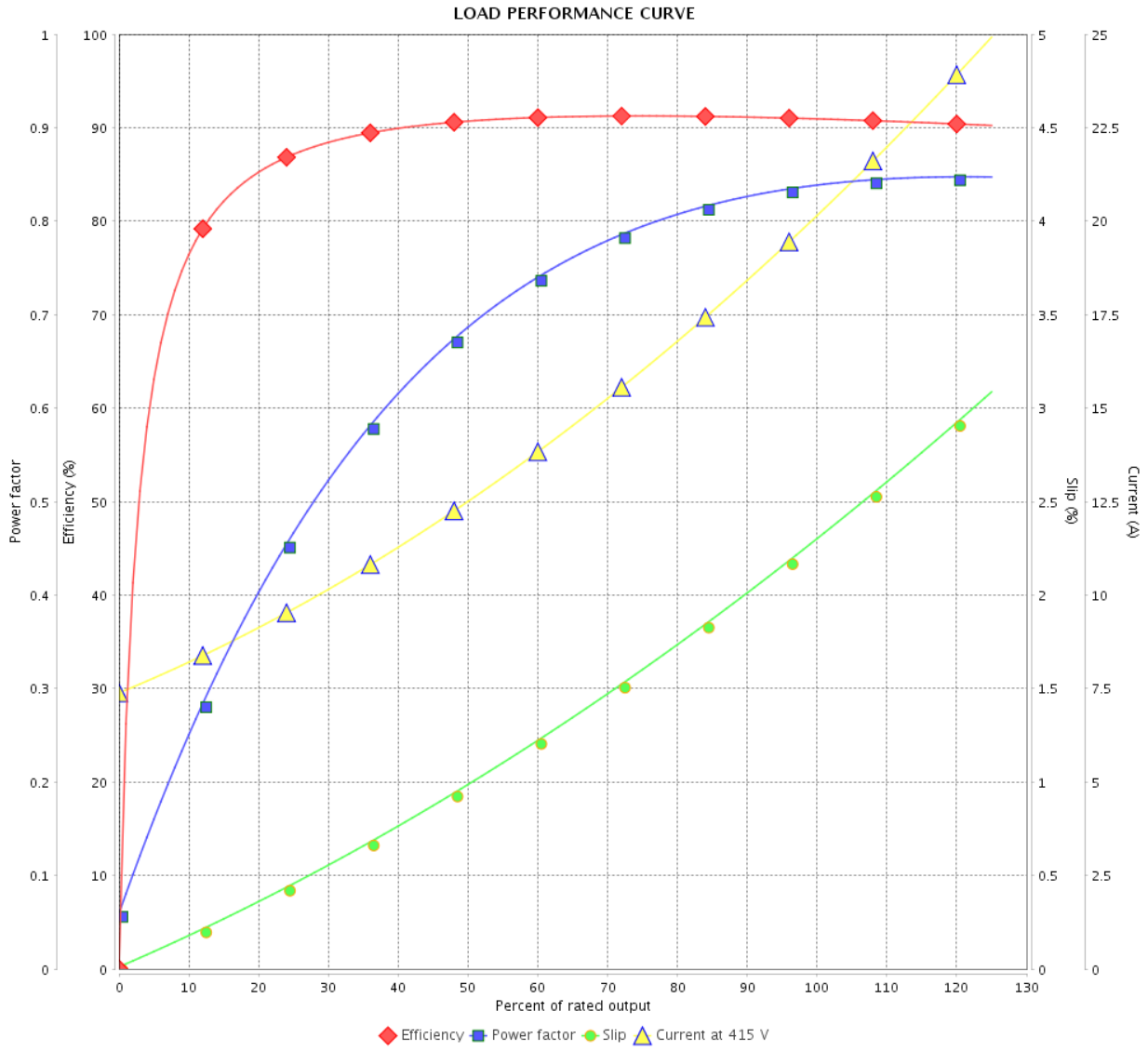
Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	01/06/2022		14 / 36	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: NEMA Premium Efficiency Three-Phase	Product code :	13864395
		Catalog # :	01518ET3E254T-W22G



Performance	: 415 V 50 Hz 4P IE2		
Rated current	: 20.0 A	Moment of inertia (J)	: 2.62 sq.ft.lb
LRC	: 5.9	Duty cycle	: Cont.(S1)
Rated torque	: 53.8 ft.lb	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.00
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 1465 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	01/06/2022		15 / 36	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: NEMA Premium Efficiency Three-Phase	Product code :	13864395
		Catalog # :	01518ET3E254T-W22G

Performance	: 230/460 V 60 Hz 4P		
Rated current	: 36.0/18.0 A	Moment of inertia (J)	: 2.62 sq.ft.lb
LRC	: 6.4	Duty cycle	: Cont.(S1)
Rated torque	: 44.5 ft.lb	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.25
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1770 rpm	Design	: B
Heating constant			
Cooling constant			

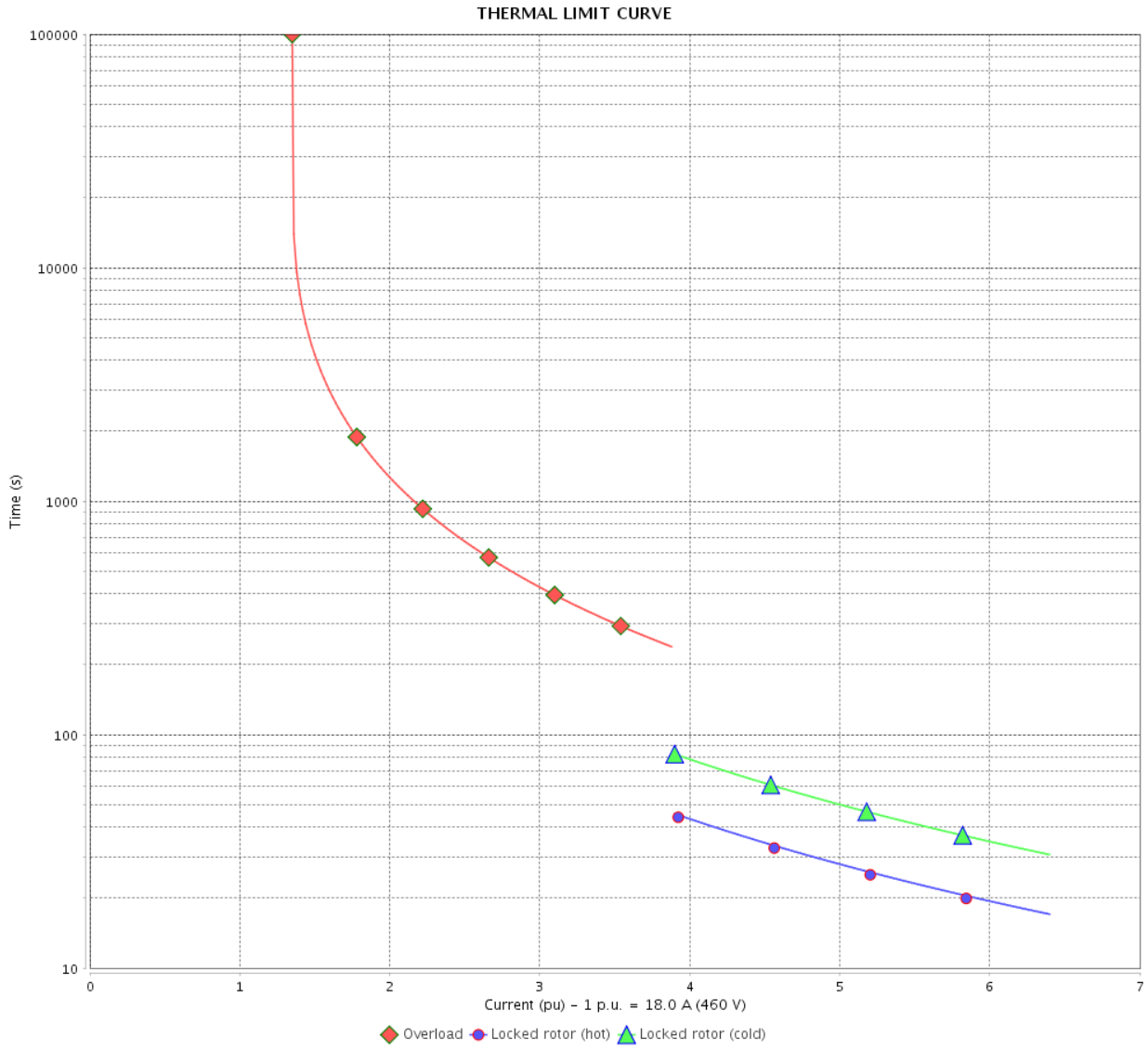
Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	01/06/2022		16 / 36	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :



Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	01/06/2022		17 / 36	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: NEMA Premium Efficiency Three-Phase	Product code :	13864395
		Catalog # :	01518ET3E254T-W22G

Performance	: 380 V 50 Hz 4P IE3

Rated current	: 15.2 A	Moment of inertia (J)	: 2.62 sq.ft.lb
LRC	: 7.2	Duty cycle	: Cont.(S1)
Rated torque	: 35.6 ft.lb	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.25
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1475 rpm	Design	: B
Heating constant			
Cooling constant			

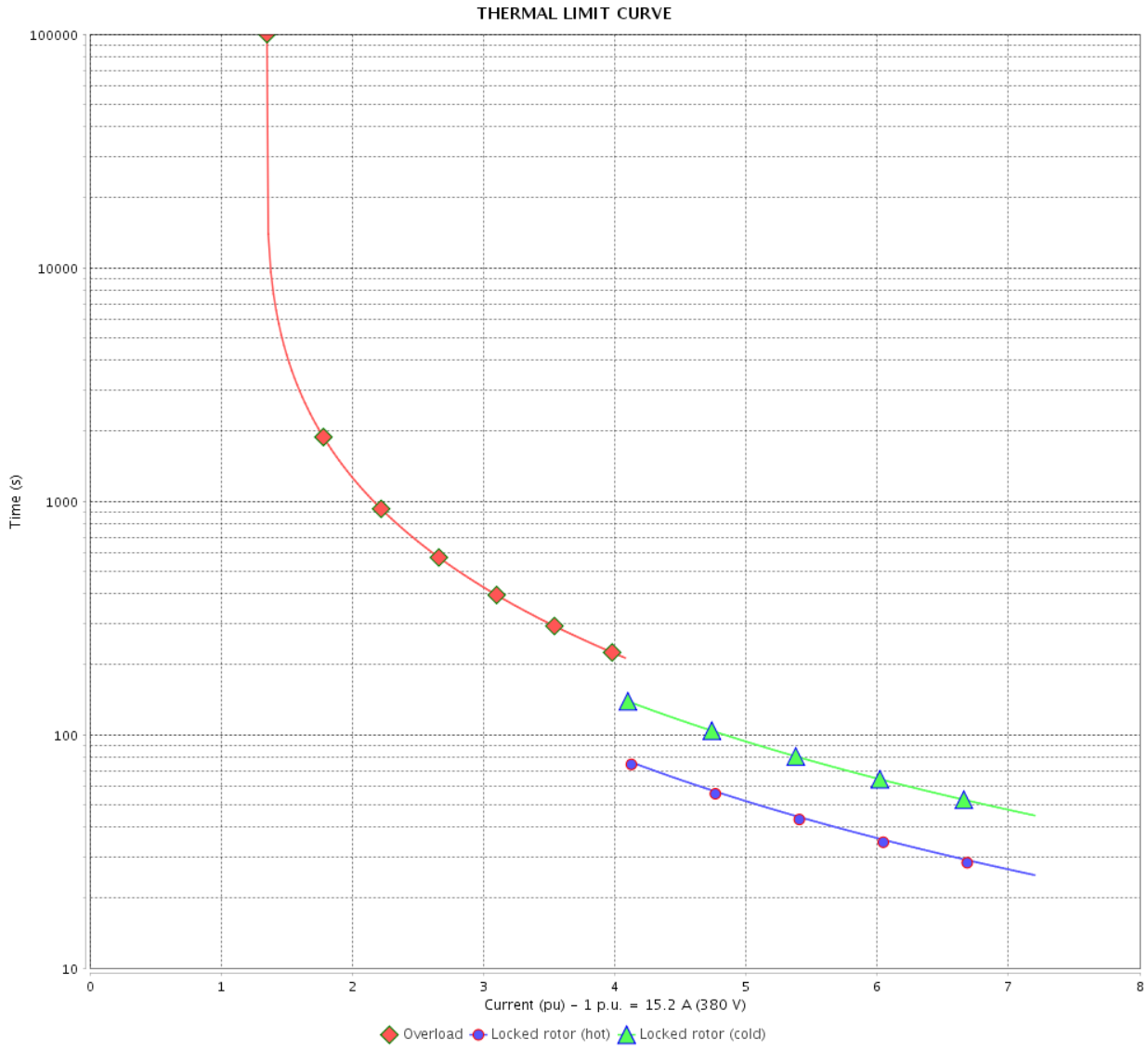
Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	01/06/2022		18 / 36	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :



Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	01/06/2022		19 / 36	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: NEMA Premium Efficiency Three-Phase	Product code :	13864395
		Catalog # :	01518ET3E254T-W22G

Performance	: 400 V 50 Hz 4P IE3

Rated current	: 14.8 A	Moment of inertia (J)	: 2.62 sq.ft.lb
LRC	: 7.8	Duty cycle	: Cont.(S1)
Rated torque	: 35.5 ft.lb	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	: 1.25
Breakdown torque	: 340 %	Temperature rise	: 80 K
Rated speed	: 1480 rpm	Design	: B
Heating constant			
Cooling constant			

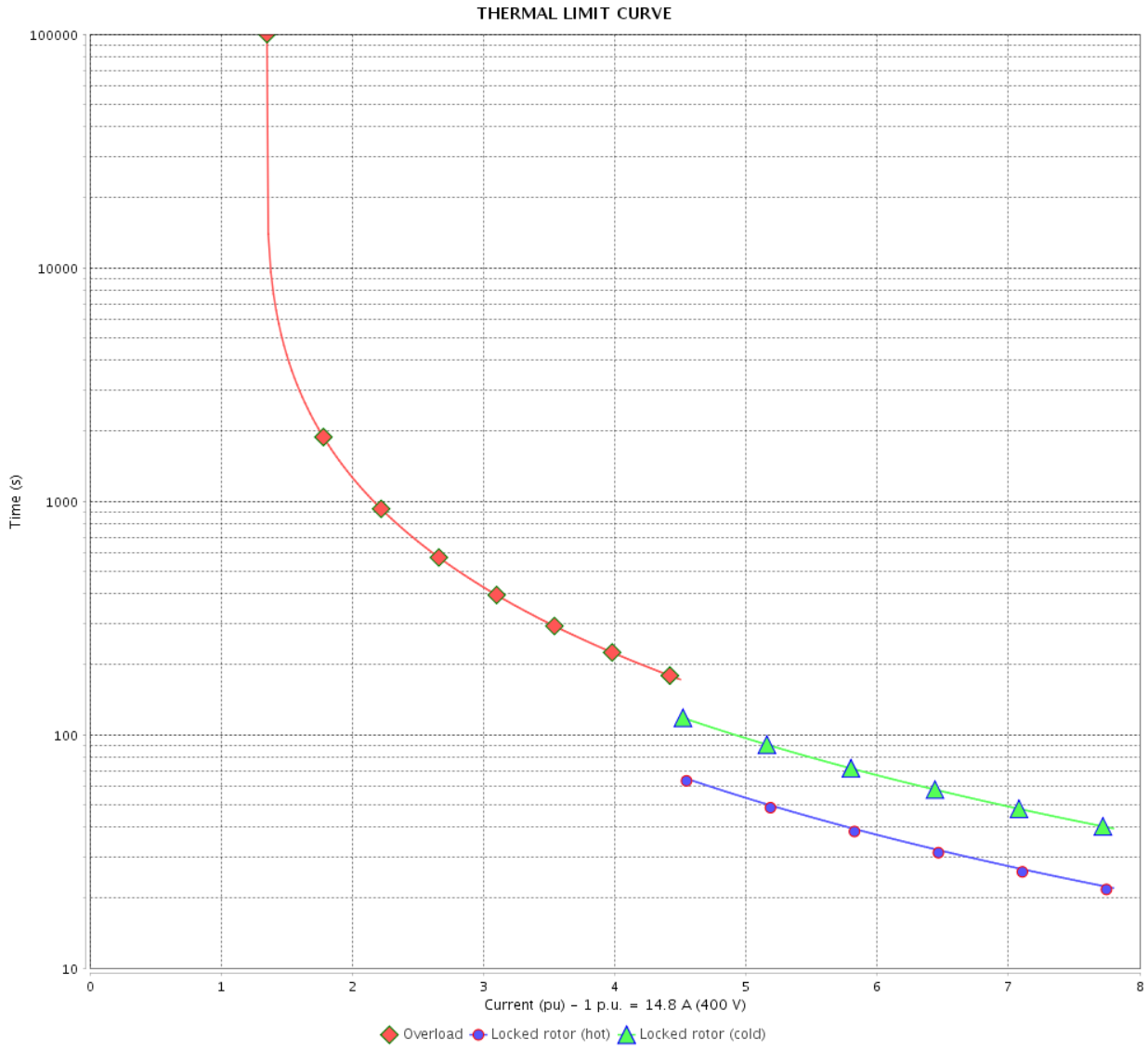
Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	01/06/2022		20 / 36	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :



Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	01/06/2022		21 / 36	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: NEMA Premium Efficiency Three-Phase	Product code :	13864395
		Catalog # :	01518ET3E254T-W22G

Performance	: 415 V 50 Hz 4P IE3

Rated current	: 14.5 A	Moment of inertia (J)	: 2.62 sq.ft.lb
LRC	: 8.3	Duty cycle	: Cont.(S1)
Rated torque	: 35.5 ft.lb	Insulation class	: F
Locked rotor torque	: 310 %	Service factor	: 1.25
Breakdown torque	: 370 %	Temperature rise	: 80 K
Rated speed	: 1480 rpm	Design	: B
Heating constant			
Cooling constant			

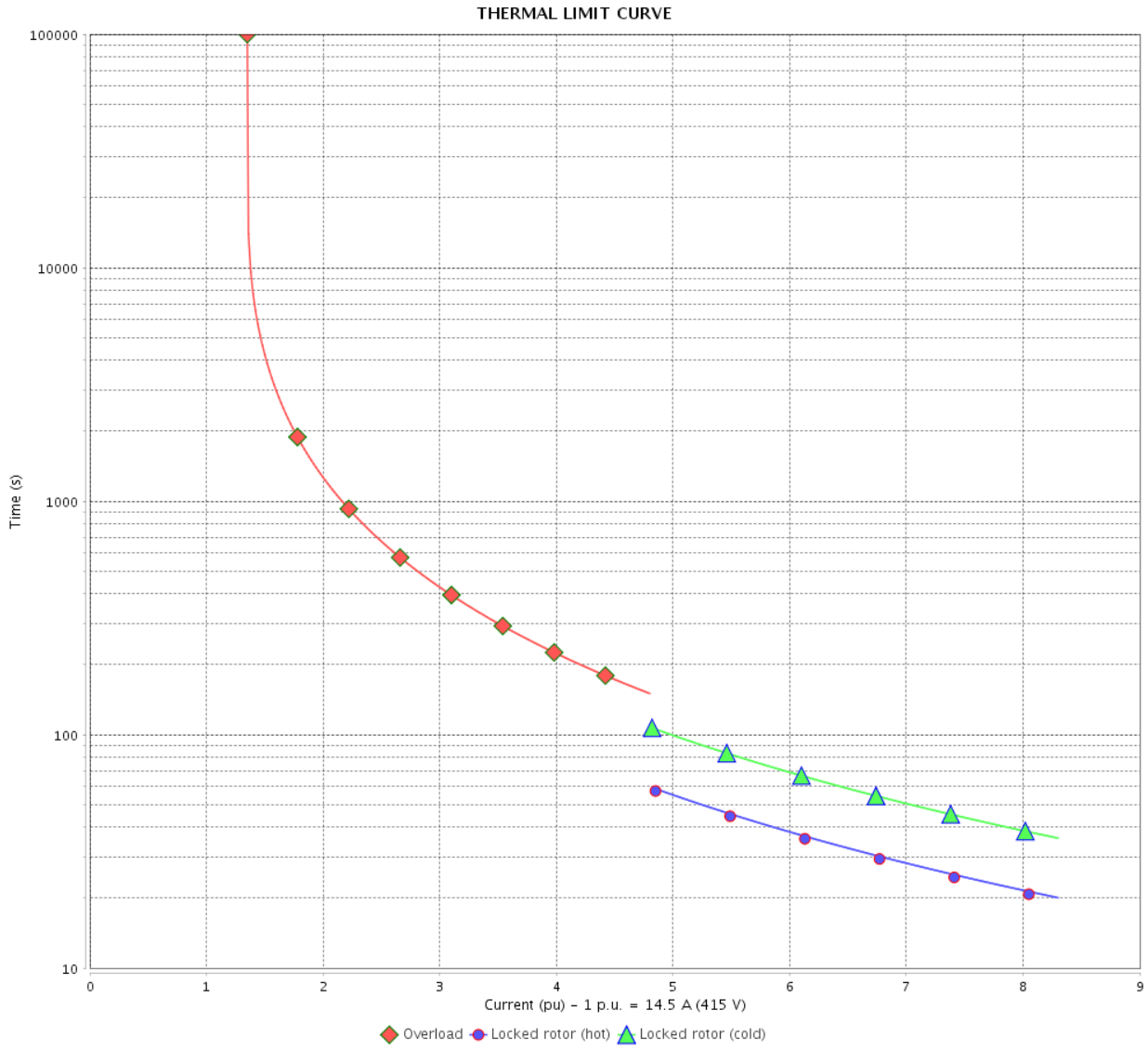
Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	01/06/2022		22 / 36	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :



Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	01/06/2022		23 / 36	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: NEMA Premium Efficiency Three-Phase	Product code :	13864395
		Catalog # :	01518ET3E254T-W22G

Performance	: 380 V 50 Hz 4P IE2		
Rated current	: 21.5 A	Moment of inertia (J)	: 2.62 sq.ft.lb
LRC	: 4.9	Duty cycle	: Cont.(S1)
Rated torque	: 54.1 ft.lb	Insulation class	: F
Locked rotor torque	: 160 %	Service factor	: 1.00
Breakdown torque	: 200 %	Temperature rise	: 80 K
Rated speed	: 1455 rpm	Design	: B
Heating constant			
Cooling constant			

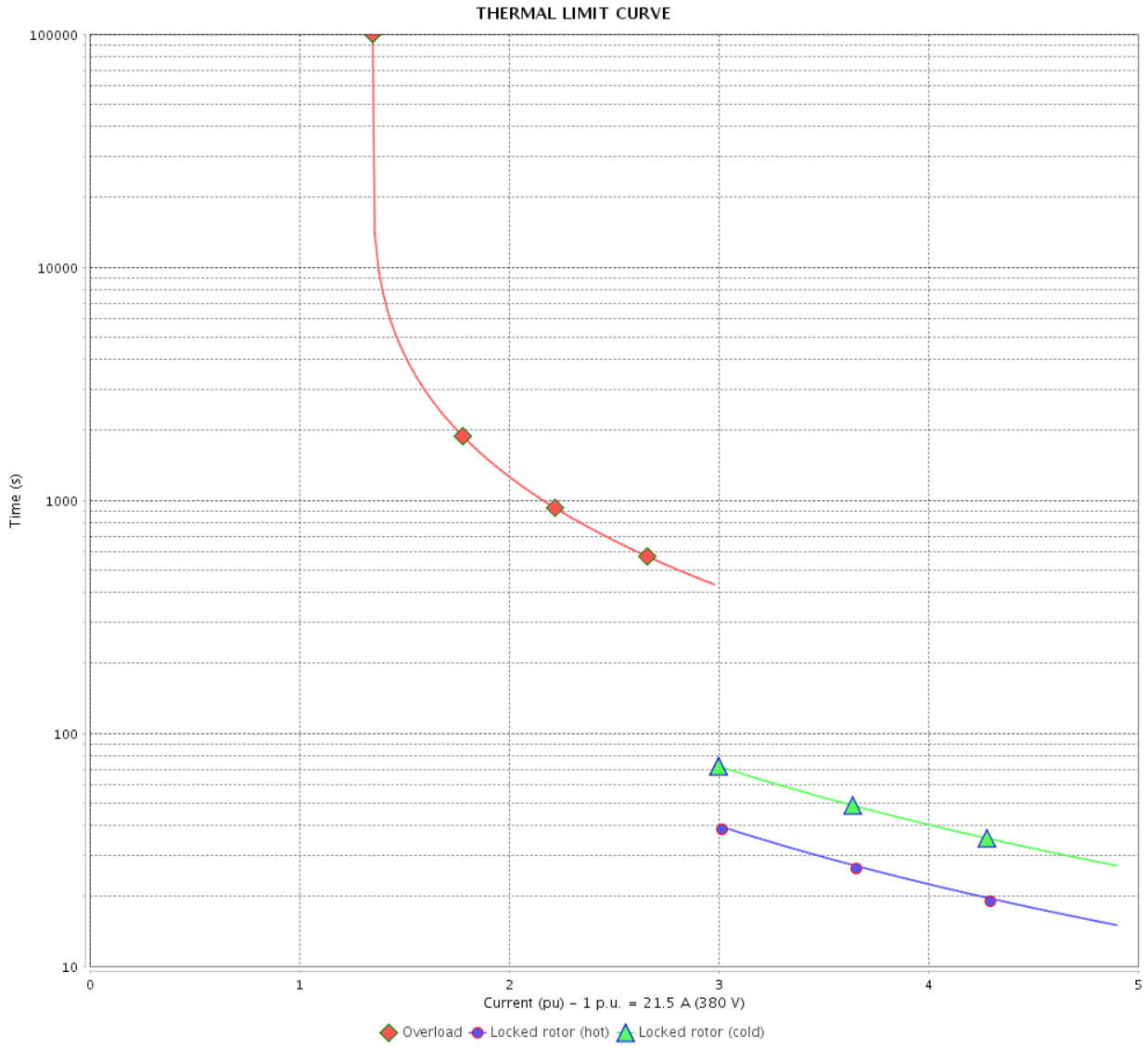
Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	01/06/2022		24 / 36	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :



Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	01/06/2022		25 / 36	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: NEMA Premium Efficiency Three-Phase	Product code :	13864395
		Catalog # :	01518ET3E254T-W22G

Performance	: 400 V 50 Hz 4P IE2		
Rated current	: 20.5 A	Moment of inertia (J)	: 2.62 sq.ft.lb
LRC	: 5.4	Duty cycle	: Cont.(S1)
Rated torque	: 54.0 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.00
Breakdown torque	: 220 %	Temperature rise	: 80 K
Rated speed	: 1460 rpm	Design	: B
Heating constant			
Cooling constant			

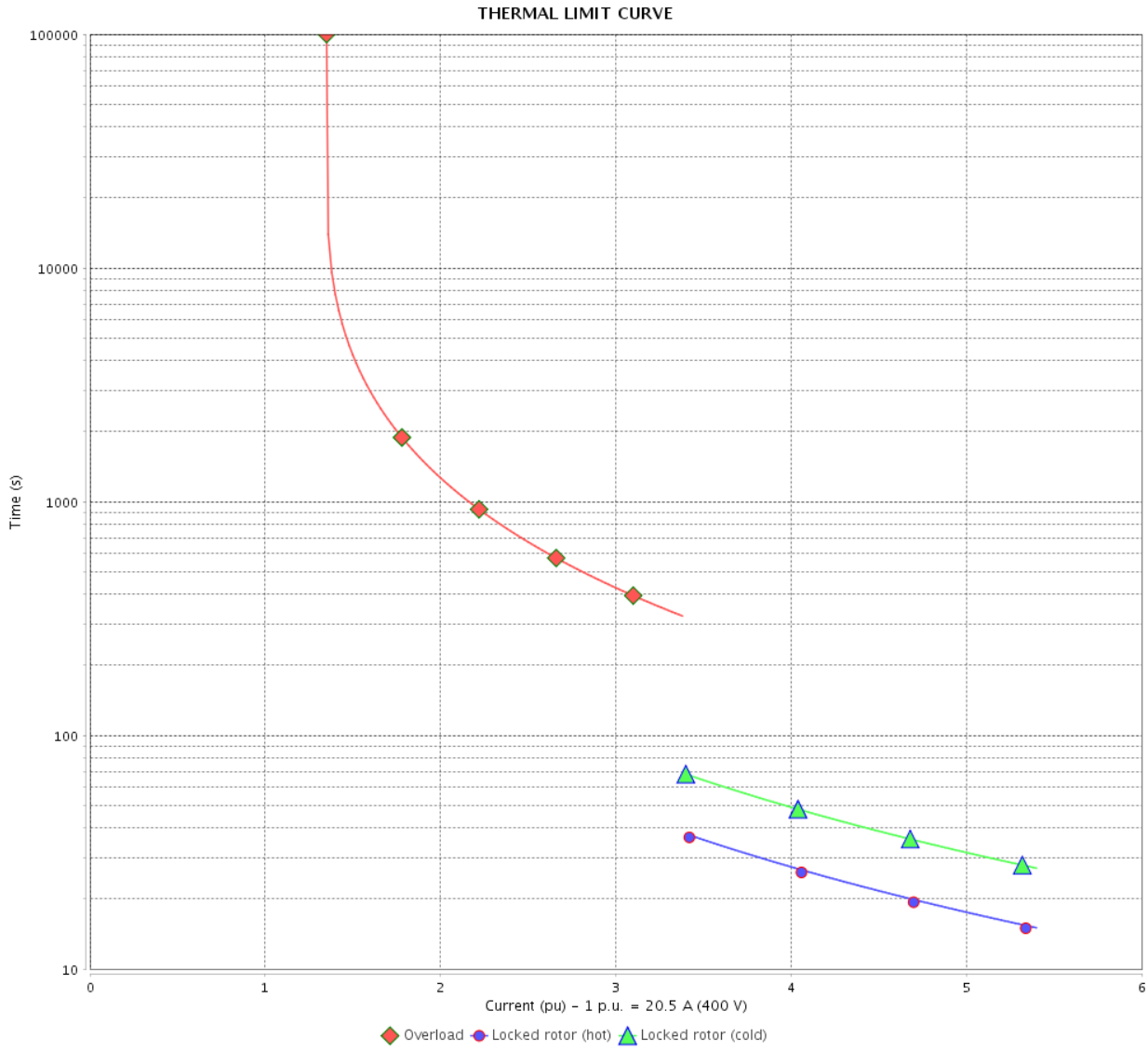
Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	01/06/2022		26 / 36	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :



Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	01/06/2022		27 / 36	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: NEMA Premium Efficiency Three-Phase	Product code :	13864395
		Catalog # :	01518ET3E254T-W22G

Performance	: 415 V 50 Hz 4P IE2		
Rated current	: 20.0 A	Moment of inertia (J)	: 2.62 sq.ft.lb
LRC	: 5.9	Duty cycle	: Cont.(S1)
Rated torque	: 53.8 ft.lb	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.00
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 1465 rpm	Design	: B
Heating constant			
Cooling constant			

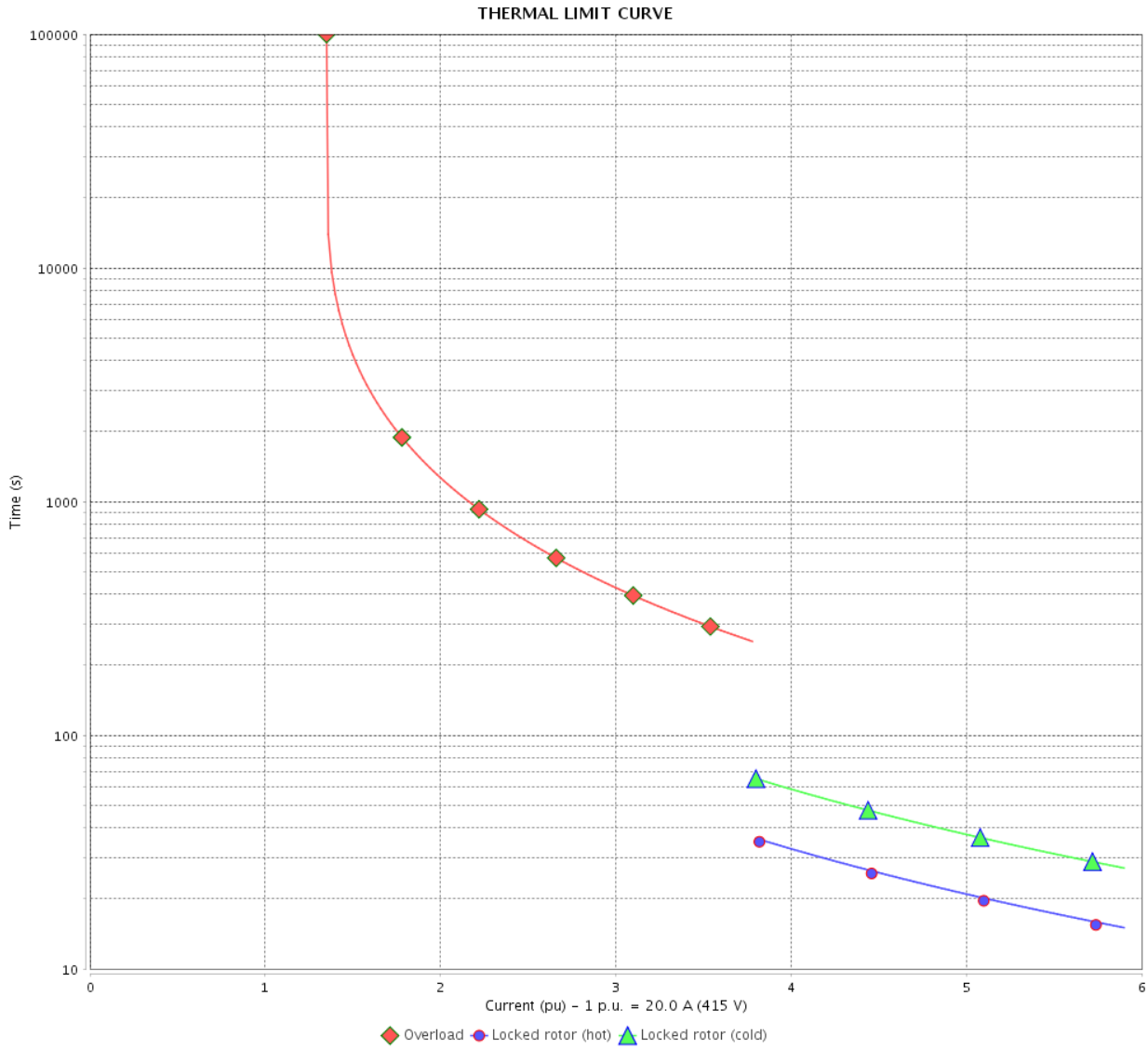
Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	01/06/2022		28 / 36	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :



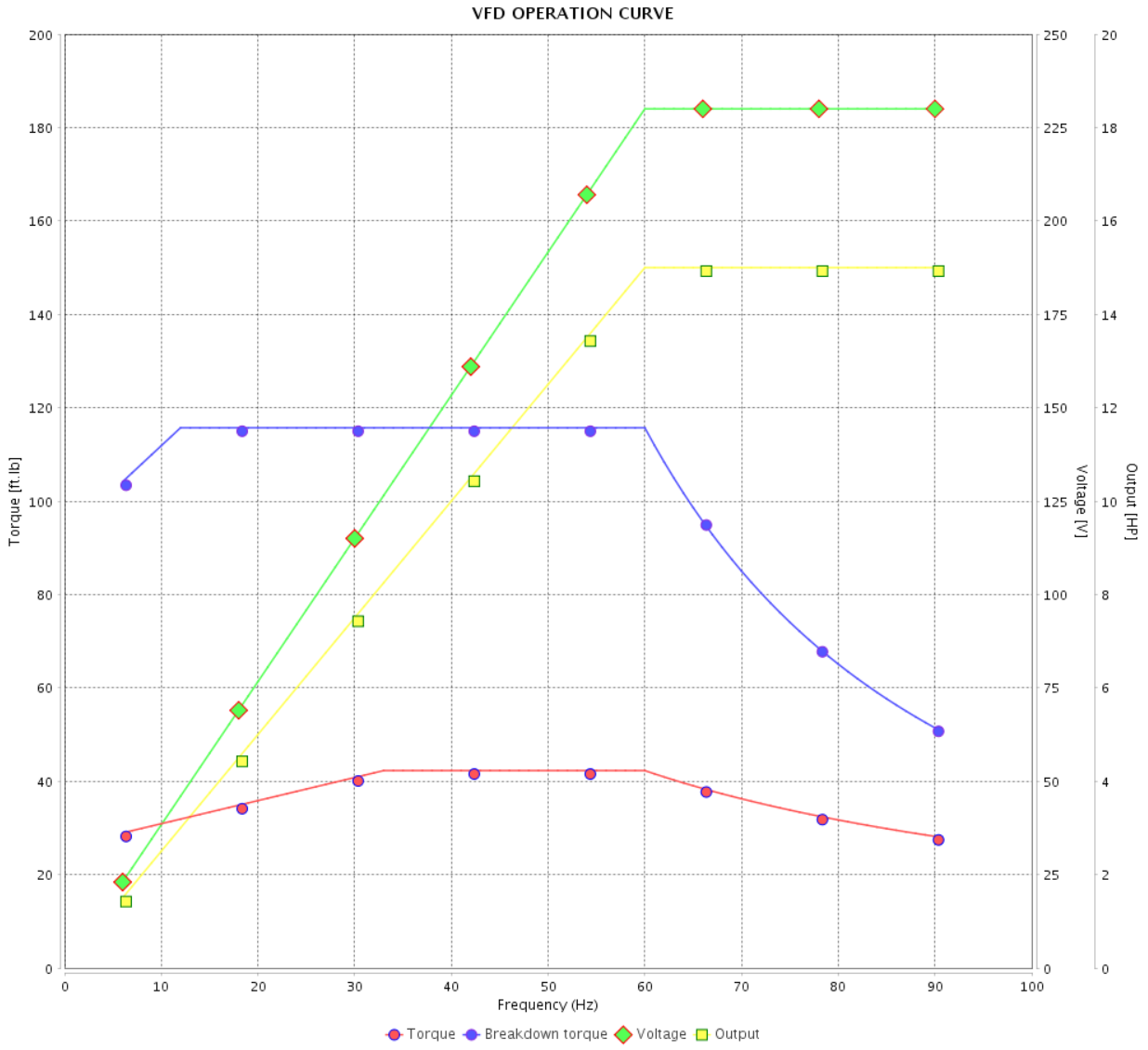
Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	01/06/2022		29 / 36	

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: NEMA Premium Efficiency Three-Phase	Product code :	13864395
		Catalog # :	01518ET3E254T-W22G



Performance	: 230/460 V 60 Hz 4P		
Rated current	: 36.0/18.0 A	Moment of inertia (J)	: 2.62 sq.ft.lb
LRC	: 6.4	Duty cycle	: Cont.(S1)
Rated torque	: 44.5 ft.lb	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.25
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1770 rpm	Design	: B

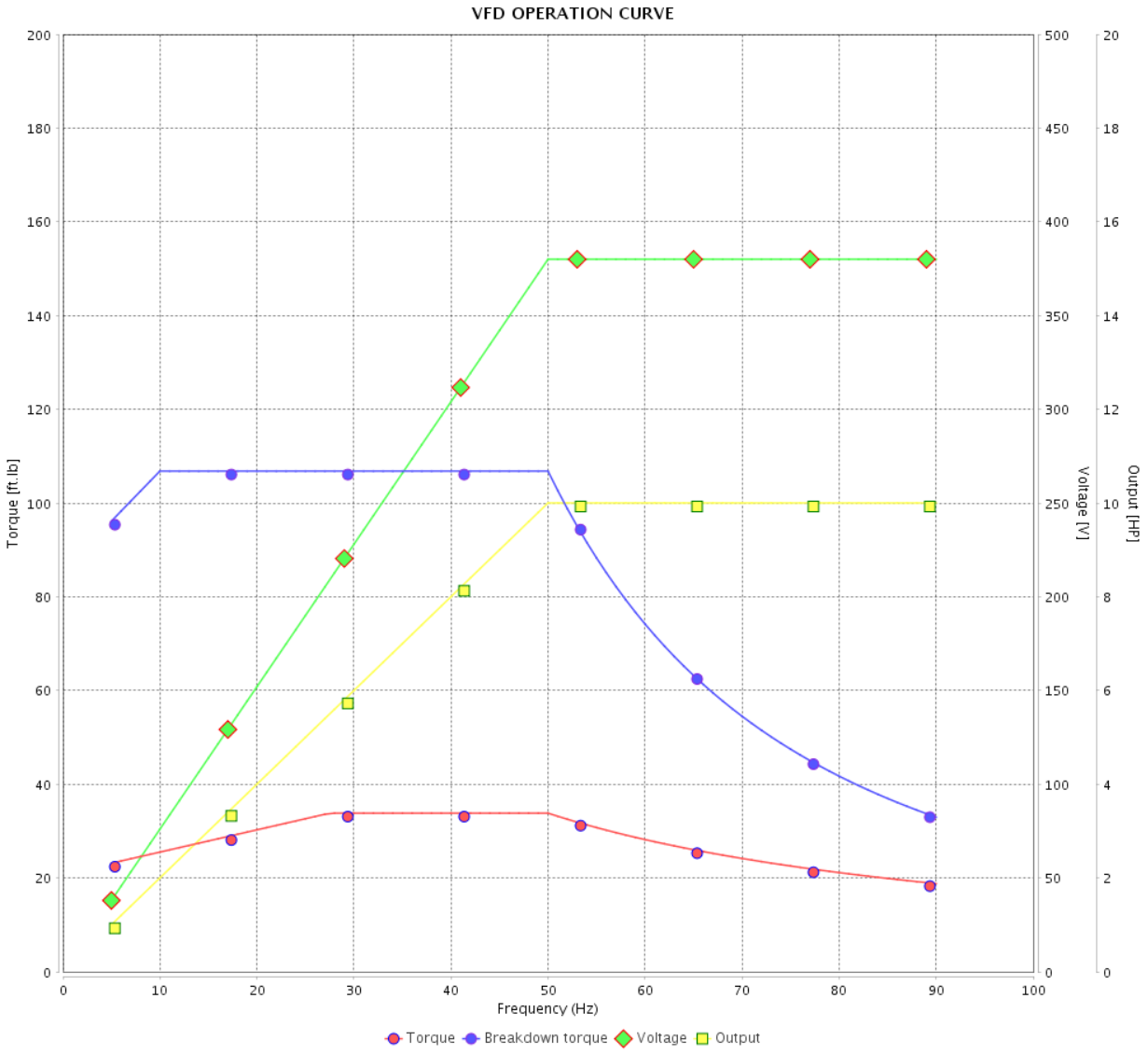
Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	01/06/2022		30 / 36	

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: NEMA Premium Efficiency Three-Phase	Product code :	13864395
		Catalog # :	01518ET3E254T-W22G



Performance	: 380 V 50 Hz 4P IE3		
Rated current	: 15.2 A	Moment of inertia (J)	: 2.62 sq.ft.lb
LRC	: 7.2	Duty cycle	: Cont.(S1)
Rated torque	: 35.6 ft.lb	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.25
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1475 rpm	Design	: B

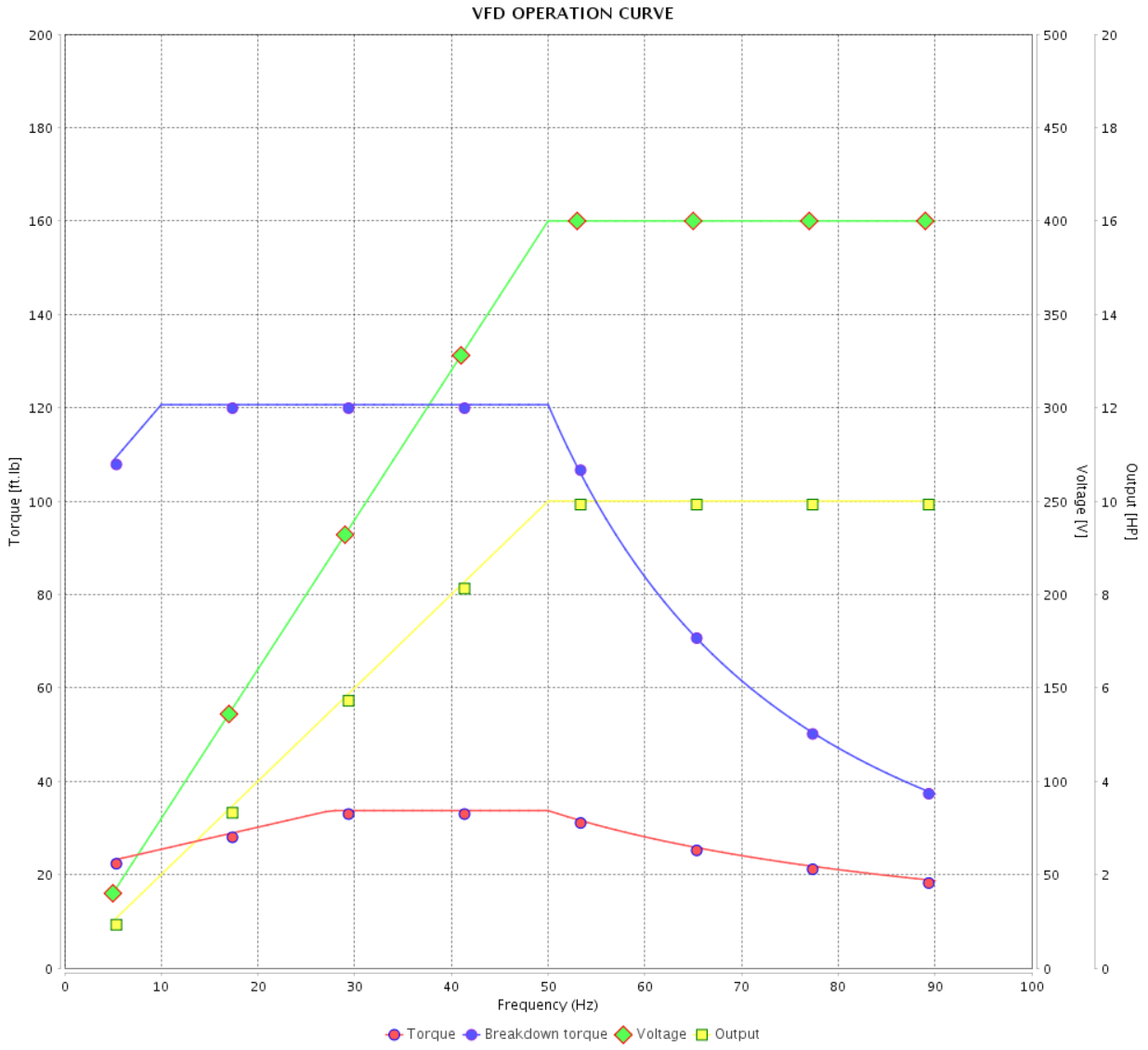
Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	01/06/2022		31 / 36	

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: NEMA Premium Efficiency Three-Phase	Product code :	13864395
		Catalog # :	01518ET3E254T-W22G



Performance	: 400 V 50 Hz 4P IE3		
Rated current	: 14.8 A	Moment of inertia (J)	: 2.62 sq.ft.lb
LRC	: 7.8	Duty cycle	: Cont.(S1)
Rated torque	: 35.5 ft.lb	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	: 1.25
Breakdown torque	: 340 %	Temperature rise	: 80 K
Rated speed	: 1480 rpm	Design	: B

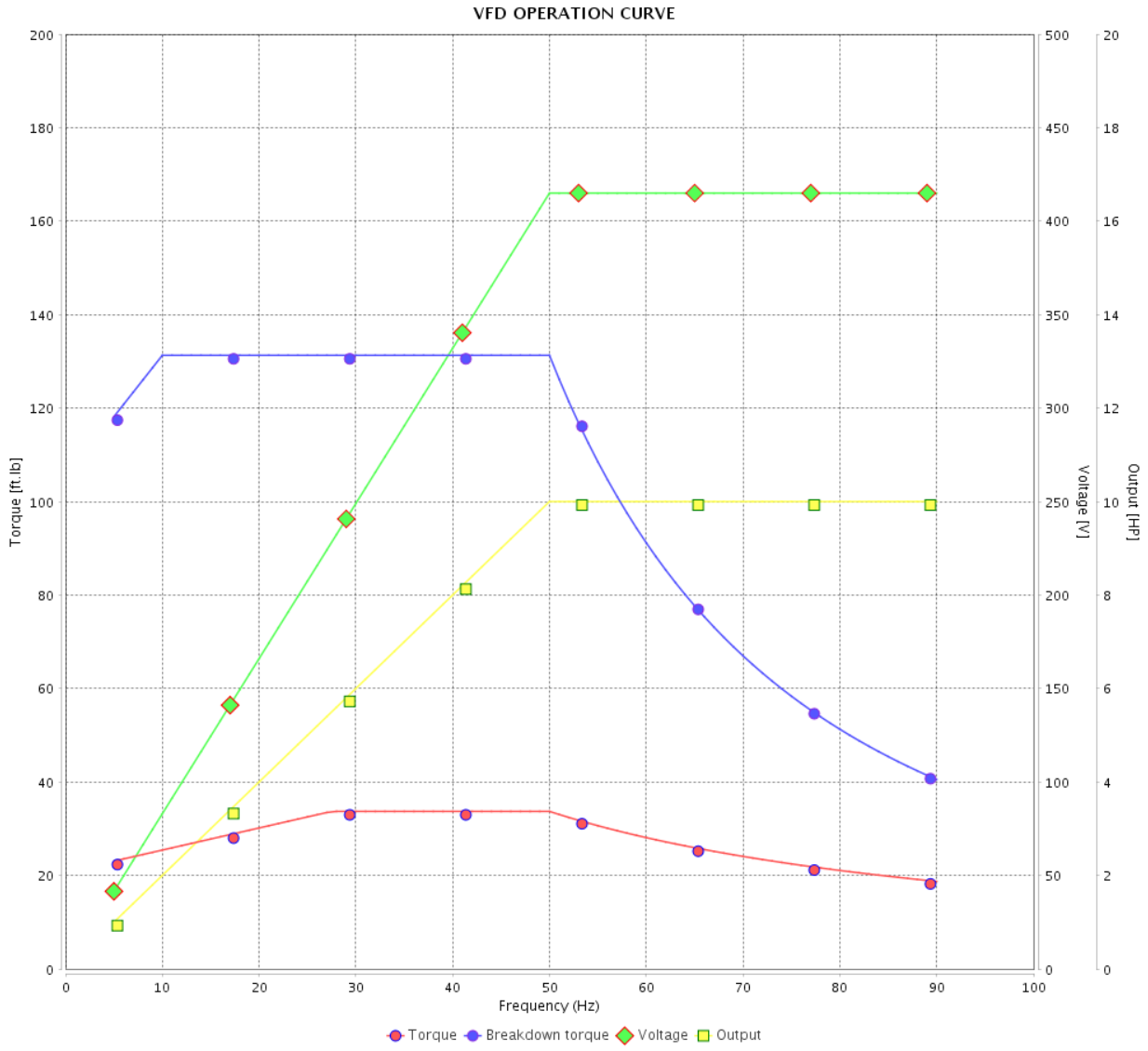
Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	01/06/2022		32 / 36	

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: NEMA Premium Efficiency Three-Phase	Product code :	13864395
		Catalog # :	01518ET3E254T-W22G



Performance	: 415 V 50 Hz 4P IE3		
Rated current	: 14.5 A	Moment of inertia (J)	: 2.62 sq.ft.lb
LRC	: 8.3	Duty cycle	: Cont.(S1)
Rated torque	: 35.5 ft.lb	Insulation class	: F
Locked rotor torque	: 310 %	Service factor	: 1.25
Breakdown torque	: 370 %	Temperature rise	: 80 K
Rated speed	: 1480 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date

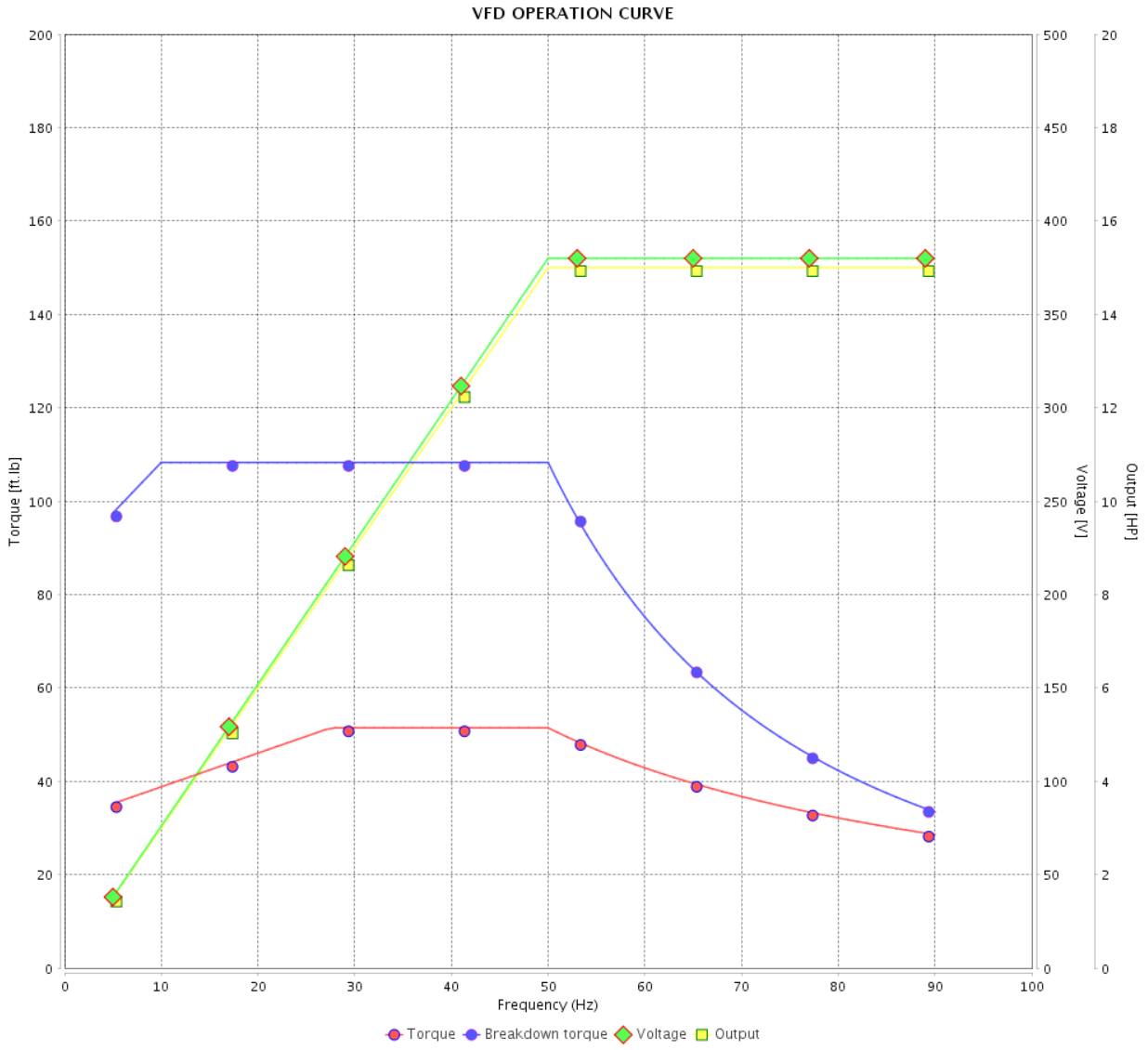
Performed by				
Checked by			Page	Revision
Date	01/06/2022		33 / 36	

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: NEMA Premium Efficiency Three-Phase	Product code :	13864395
		Catalog # :	01518ET3E254T-W22G



Performance	: 380 V 50 Hz 4P IE2

Rated current	: 21.5 A	Moment of inertia (J)	: 2.62 sq.ft.lb
LRC	: 4.9	Duty cycle	: Cont.(S1)
Rated torque	: 54.1 ft.lb	Insulation class	: F
Locked rotor torque	: 160 %	Service factor	: 1.00
Breakdown torque	: 200 %	Temperature rise	: 80 K
Rated speed	: 1455 rpm	Design	: B

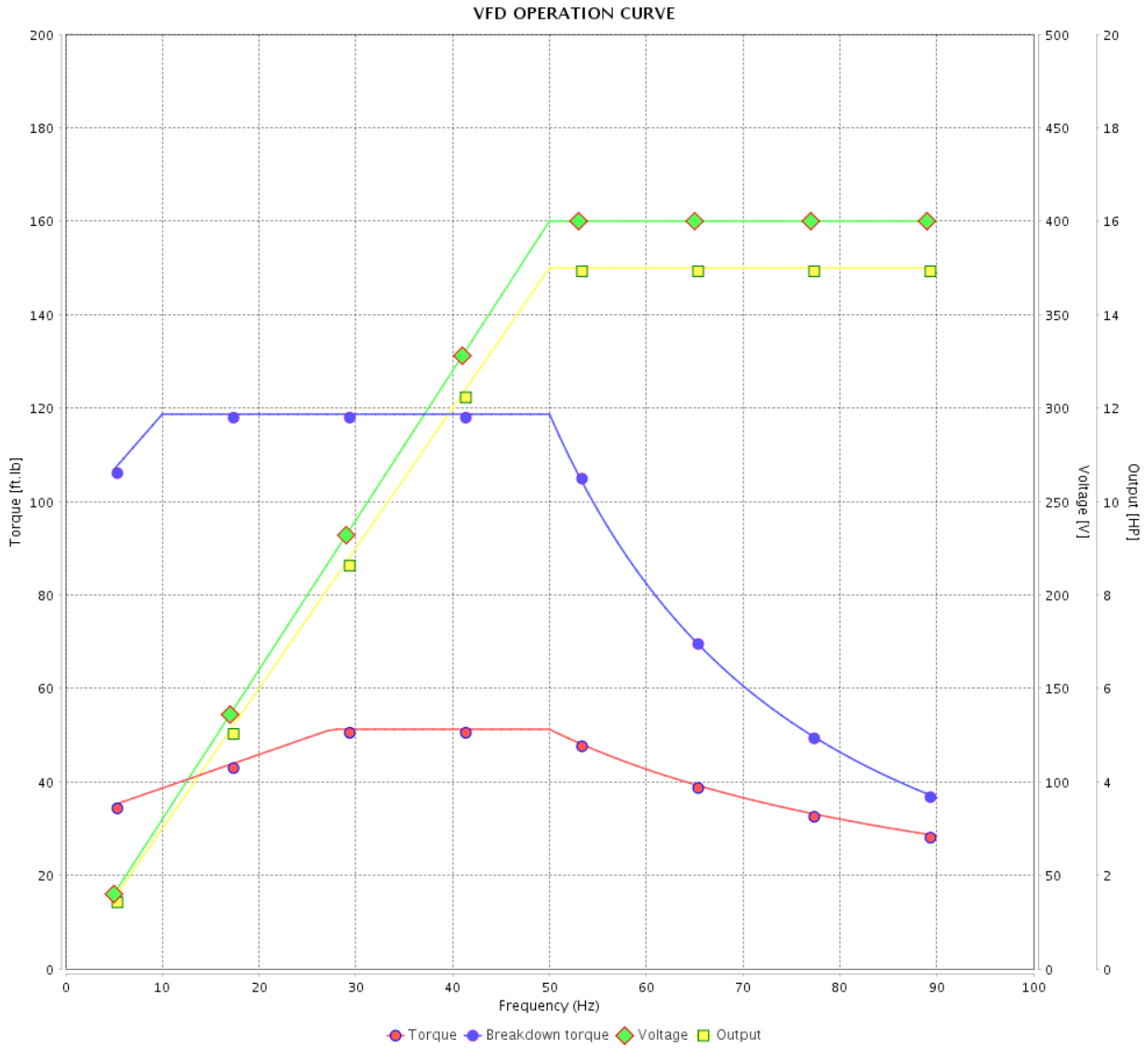
Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	01/06/2022		34 / 36	

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: NEMA Premium Efficiency Three-Phase	Product code :	13864395
		Catalog # :	01518ET3E254T-W22G



Performance	: 400 V 50 Hz 4P IE2		
Rated current	: 20.5 A	Moment of inertia (J)	: 2.62 sq.ft.lb
LRC	: 5.4	Duty cycle	: Cont.(S1)
Rated torque	: 54.0 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.00
Breakdown torque	: 220 %	Temperature rise	: 80 K
Rated speed	: 1460 rpm	Design	: B

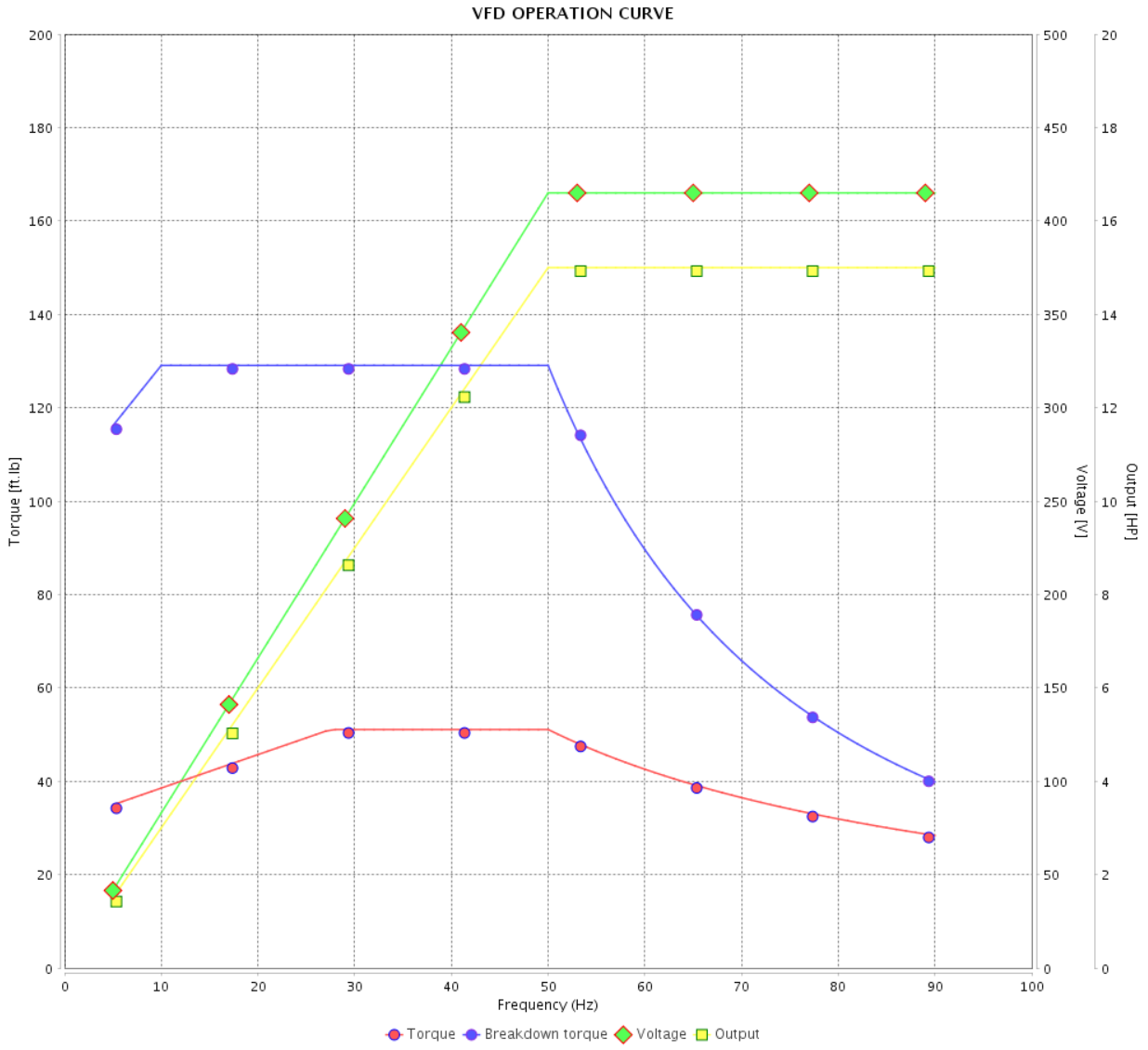
Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	01/06/2022		35 / 36	

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

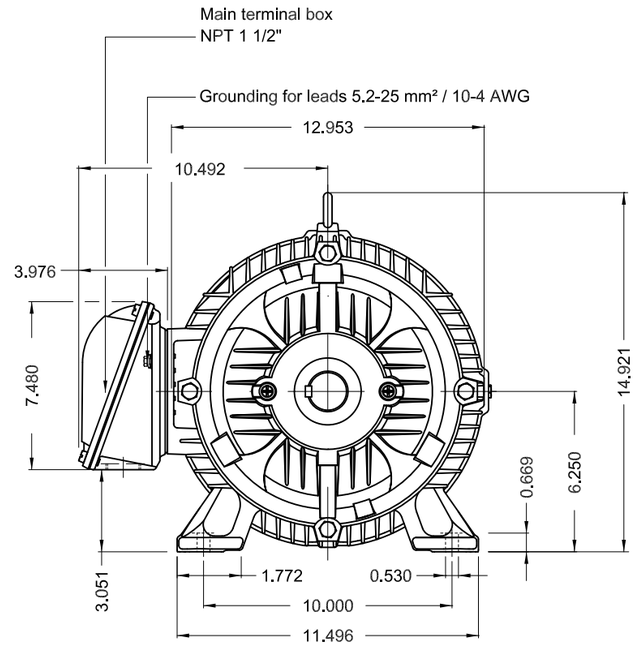
Customer	:		
Product line	: NEMA Premium Efficiency Three-Phase	Product code :	13864395
		Catalog # :	01518ET3E254T-W22G

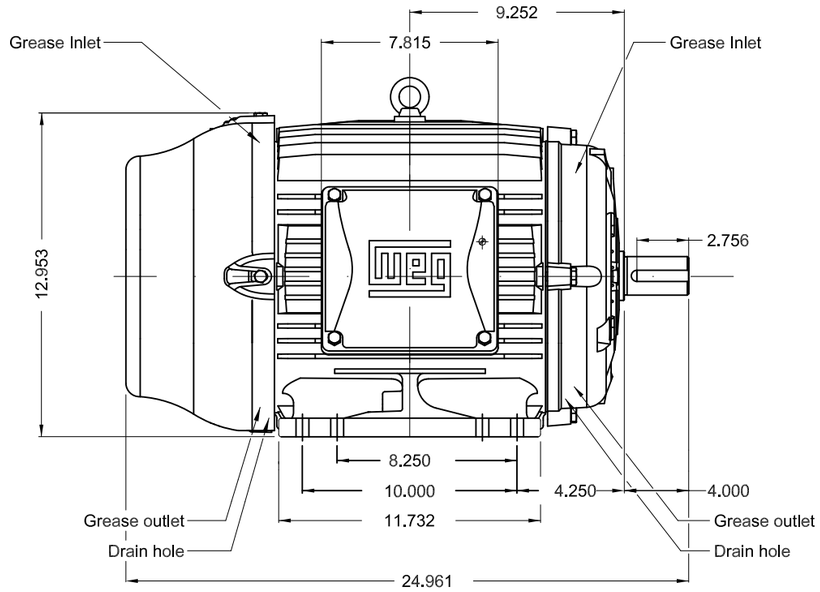


Performance	: 415 V 50 Hz 4P IE2		
Rated current	: 20.0 A	Moment of inertia (J)	: 2.62 sq.ft.lb
LRC	: 5.9	Duty cycle	: Cont.(S1)
Rated torque	: 53.8 ft.lb	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.00
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 1465 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date

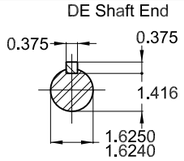
Performed by				
Checked by			Page	Revision
Date	01/06/2022		36 / 36	





Without vertical jackscrews
Internal AEGIS ground ring on the DE
Color RAL 5009
Painting plan 203A
Mounting NEMA F-1
Mounting B3R(D)

DE Shaft End



15 HP 04 Poles 60 Hz | A

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER

EXECUTED	HYBRISUSER	THREE PH. MOTOR W22 PREM. EFF.	PREVIEW	
CHECKED		FRAME 254/6T IP55 TEFC	WDD	
RELEASED				
REL DT.		WMO Jaragua do Sul Product Engineering	SHEET 1 / 1	

Dimensions in inches

XME A3

NEMA Premium W22

MODEL 01518ET3E254T-W22G

Inverter Duty Motor
Severe Duty

3PT9 LISTED
C UL US

C UL US
Energy Verified

Mod.TE1BFOXON
CC029A

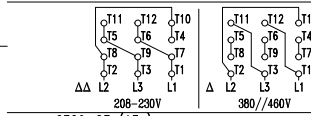
60Hz: For use on PWM: VT 1000:1,
CT 20:1, 1.00SF

MADE IN BRAZIL
13864395

PH3	60Hz	Fr. 254/6T	1000m.a.s.l.
V 230/460		A 36.0/18.0	
HP 15		kW 11	
SF 1.25		SFA 45.0/22.5	
RPM 1768		PF 0.83	
AMB 40°C		INS cl. F DT80K	NEMA NOM EFF 92.4%
DUTY CONT.		DES B Code G	

USABLE @208V 39.8A SF 1.15 SFA 45.8

15HP 11kW 50Hz 380V 21.5A 1455RPM SF 1.00 EFF 90.2% (IE2)



→ 6309-C3 (13g)

→ 6209-C3 (9g)

MOBIL POLYREX EM (20000h)