

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer								
Product line	: NEMA Premium Efficiency Three-Phase			Product code :	12119370			
				Catalog # :	01536ET3E215JM-W22			
Frame	: 213/5JM			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	: 179 lb			
Protection degree	: IP55			Moment of inertia (J)	: 0.6362 sq.ft.lb			
Design	: A							
Output [HP]	15	10	10	10	15	15	15	
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]	34.0/17.0	14.4	14.1	14.0	20.6	19.7	19.3	
L. R. Amperes [A]	258/129	124	133	140	124	132	139	
LRC [A]	7.6x(Code J)	8.6x(Code K)	9.4x(Code L)	10.0x(Code M)	6.0x(Code G)	6.7x(Code H)	7.2x(Code J)	
No load current [A]	10.0/5.00	4.89	5.56	6.15	4.89	5.56	6.15	
Rated speed [RPM]	3510	2930	2935	2940	2885	2900	2905	
Slip [%]	2.50	2.33	2.17	2.00	3.83	3.33	3.17	
Rated torque [ft.lb]	22.4	17.9	17.8	17.8	27.3	27.2	27.1	
Locked rotor torque [%]	240	280	320	340	190	220	240	
Breakdown torque [%]	280	340	380	420	220	250	280	
Service factor	1.25	1.15	1.15	1.15	1.00	1.00	1.00	
Temperature rise	80 K	80 K	80 K	80 K	105 K	105 K	80 K	
Locked rotor time	25s (cold) 14s (hot)	21s (cold) 12s (hot)	19s (cold) 11s (hot)	19s (cold) 11s (hot)	21s (cold) 12s (hot)	19s (cold) 11s (hot)	19s (cold) 11s (hot)	
Noise level ²	68.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	
Efficiency (%)	25%	90.0	89.3	88.8	88.2	88.2	88.5	89.2
	50%	90.2	89.5	89.0	88.5	88.5	89.0	89.5
	75%	91.0	90.1	90.1	90.1	89.0	89.5	90.0
	100%	91.0	90.1	90.1	90.1	89.0	89.7	90.0
Power Factor	25%	0.53	0.48	0.43	0.40	0.59	0.55	0.51
	50%	0.76	0.72	0.68	0.64	0.81	0.78	0.75
	75%	0.85	0.82	0.79	0.77	0.88	0.86	0.84
	100%	0.89	0.88	0.85	0.83	0.91	0.90	0.88
Bearing type	: Drive end 6309 Z C3 Non drive end 6207 ZZ		Foundation loads					
Sealing	: V'Ring V'Ring		Max. traction : 339 lb					
Lubrication interval	: 19000 h 40000 h		Max. compression : 518 lb					
Lubricant amount	: 13 g 0 g							
Lubricant type	: Mobil Polyrex EM							
Notes								
This revision replaces and cancel the previous one, which must be eliminated. (1) Looking the motor from the shaft end. (2) Measured at 1m and with tolerance of +3dB(A). (3) Approximate weight subject to changes after manufacturing process. (4) At 100% of full load.				These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.				
Rev.	Changes Summary			Performed	Checked	Date		
Performed by								
Checked by						Page	Revision	
Date	13/04/2022					1 / 36		

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



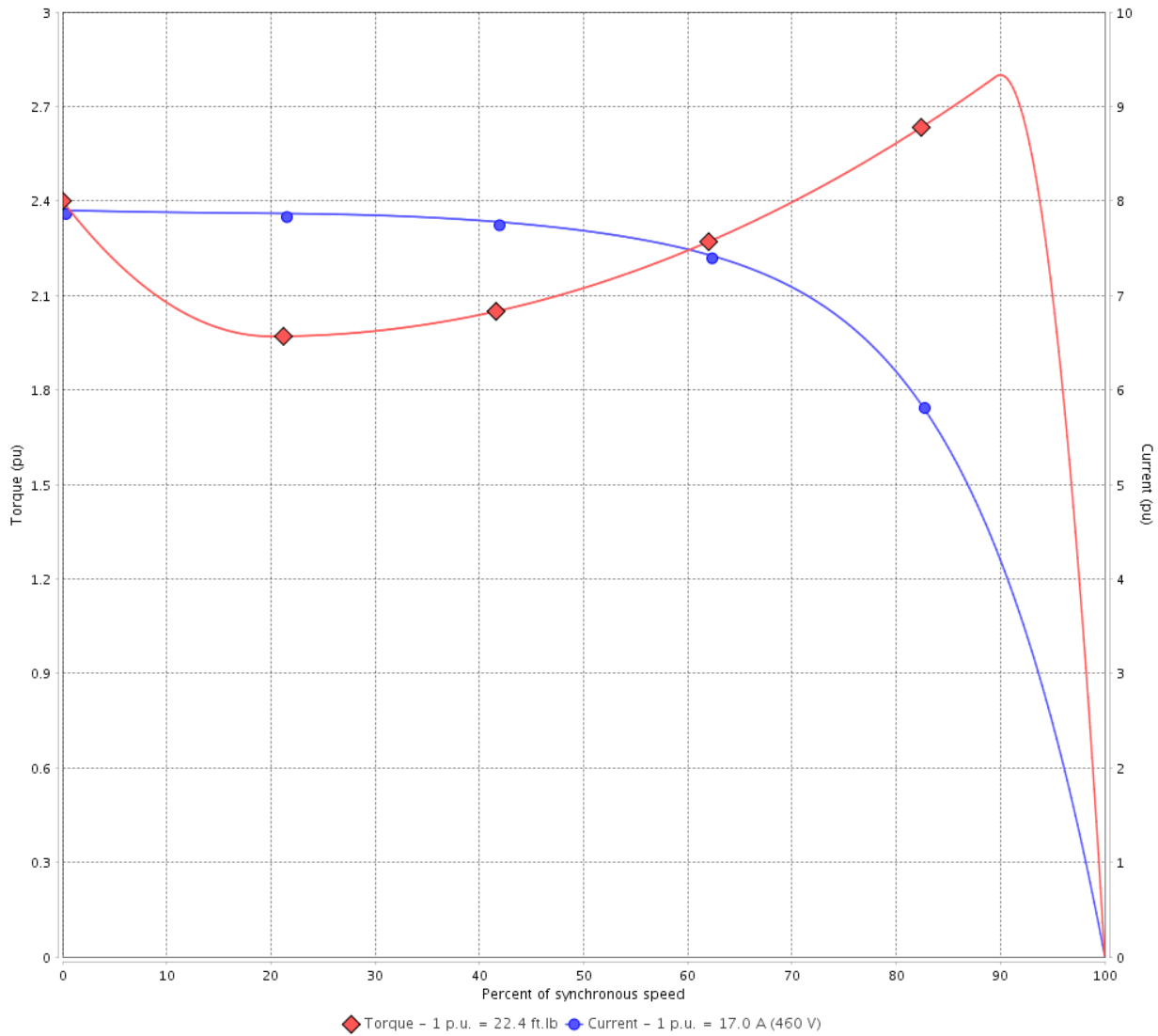
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12119370

Catalog # : 01536ET3E215JM-W22

TORQUE AND CURRENT VS SPEED CURVE



Performance : 230/460 V 60 Hz 2P

Rated current : 34.0/17.0 A
 LRC : 7.6
 Rated torque : 22.4 ft.lb
 Locked rotor torque : 240 %
 Breakdown torque : 280 %
 Rated speed : 3510 rpm

Moment of inertia (J) : 0.6362 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : A

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

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 2 / 36	Revision
Checked by				
Date	13/04/2022			

TORQUE AND CURRENT VS SPEED CURVE



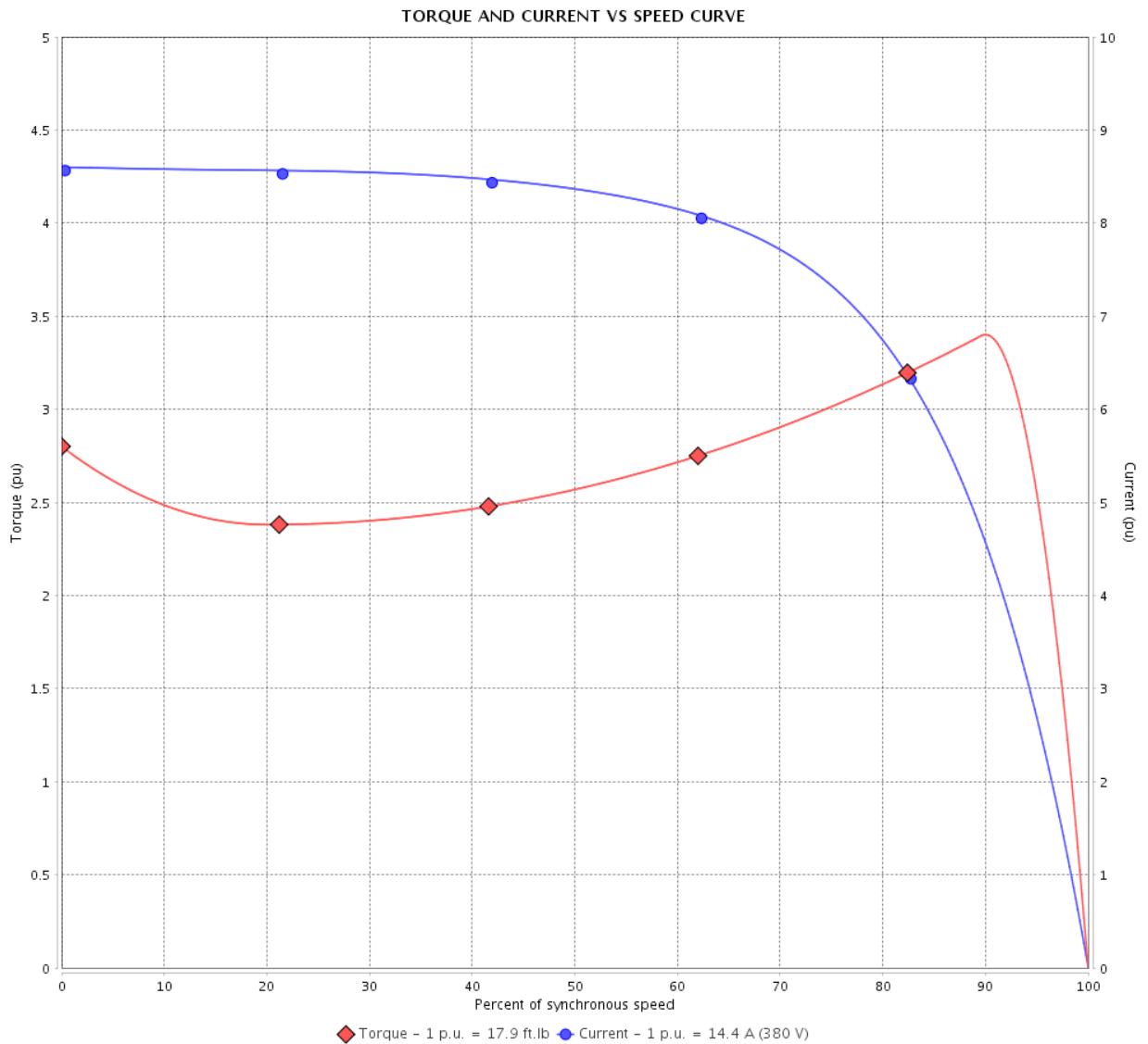
Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12119370

Catalog # : 01536ET3E215JM-W22



Performance : 380 V 50 Hz 2P IE3

Rated current	: 14.4 A	Moment of inertia (J)	: 0.6362 sq.ft.lb
LRC	: 8.6	Duty cycle	: Cont.(S1)
Rated torque	: 17.9 ft.lb	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	: 1.15
Breakdown torque	: 340 %	Temperature rise	: 80 K
Rated speed	: 2930 rpm	Design	: A

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

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page	Revision
Checked by			3 / 36	
Date	13/04/2022			

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



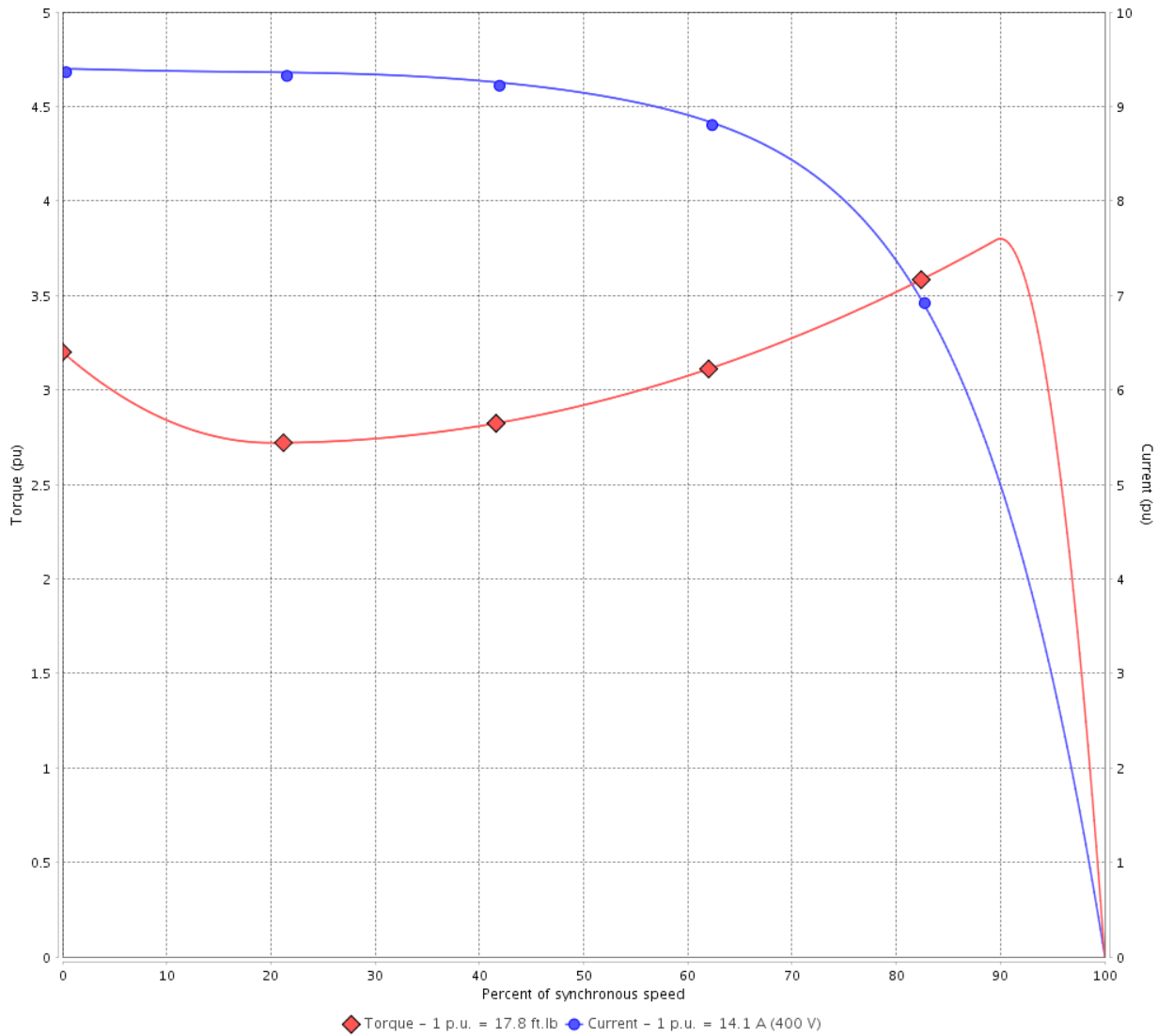
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12119370

Catalog # : 01536ET3E215JM-W22

TORQUE AND CURRENT VS SPEED CURVE



Performance : 400 V 50 Hz 2P IE3

Rated current	: 14.1 A	Moment of inertia (J)	: 0.6362 sq.ft.lb
LRC	: 9.4	Duty cycle	: Cont.(S1)
Rated torque	: 17.8 ft.lb	Insulation class	: F
Locked rotor torque	: 320 %	Service factor	: 1.15
Breakdown torque	: 380 %	Temperature rise	: 80 K
Rated speed	: 2935 rpm	Design	: A

Locked rotor time : 19s (cold) 11s (hot)

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 4 / 36	Revision
Checked by				
Date	13/04/2022			

TORQUE AND CURRENT VS SPEED CURVE



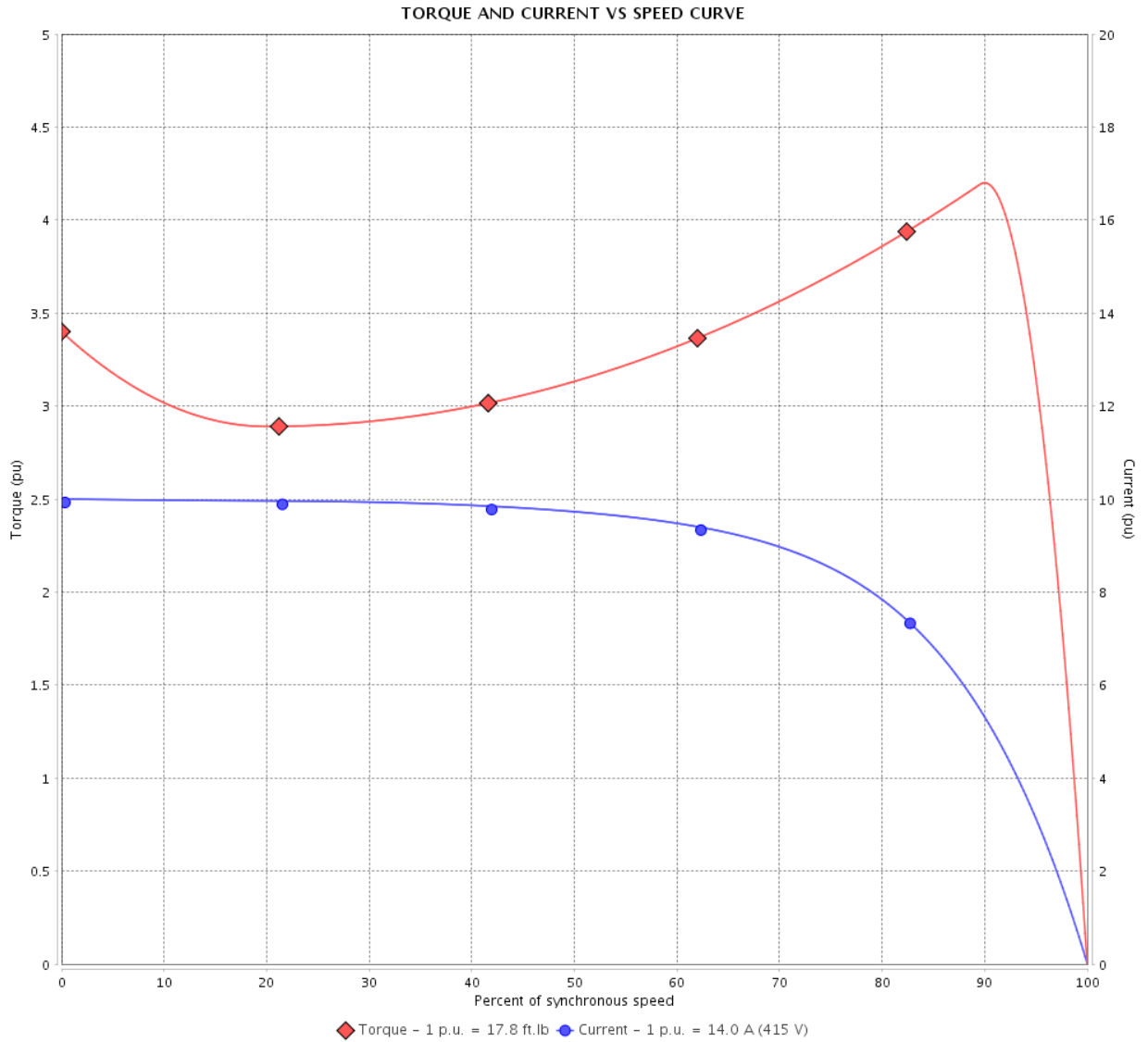
Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12119370

Catalog # : 01536ET3E215JM-W22



Performance : 415 V 50 Hz 2P IE3

Rated current	: 14.0 A	Moment of inertia (J)	: 0.6362 sq.ft.lb
LRC	: 10.0	Duty cycle	: Cont.(S1)
Rated torque	: 17.8 ft.lb	Insulation class	: F
Locked rotor torque	: 340 %	Service factor	: 1.15
Breakdown torque	: 420 %	Temperature rise	: 80 K
Rated speed	: 2940 rpm	Design	: A

Locked rotor time : 19s (cold) 11s (hot)

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 5 / 36	Revision
Checked by				
Date	13/04/2022			

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



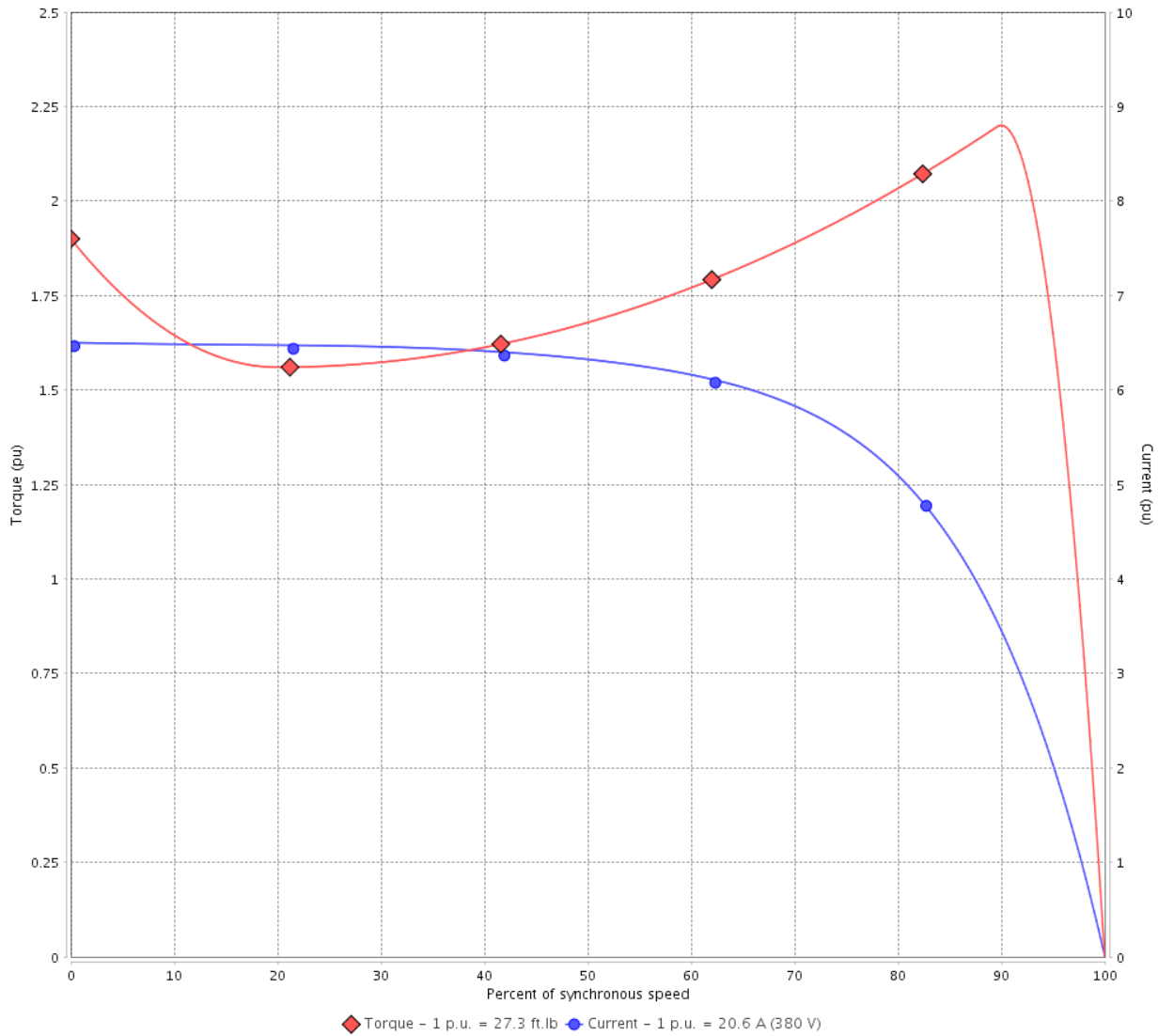
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12119370

Catalog # : 01536ET3E215JM-W22

TORQUE AND CURRENT VS SPEED CURVE



Performance : 380 V 50 Hz 2P IE1

Rated current	: 20.6 A	Moment of inertia (J)	: 0.6362 sq.ft.lb
LRC	: 6.0	Duty cycle	: Cont.(S1)
Rated torque	: 27.3 ft.lb	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 220 %	Temperature rise	: 105 K
Rated speed	: 2885 rpm	Design	: A

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

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 6 / 36	Revision
Checked by				
Date	13/04/2022			

TORQUE AND CURRENT VS SPEED CURVE



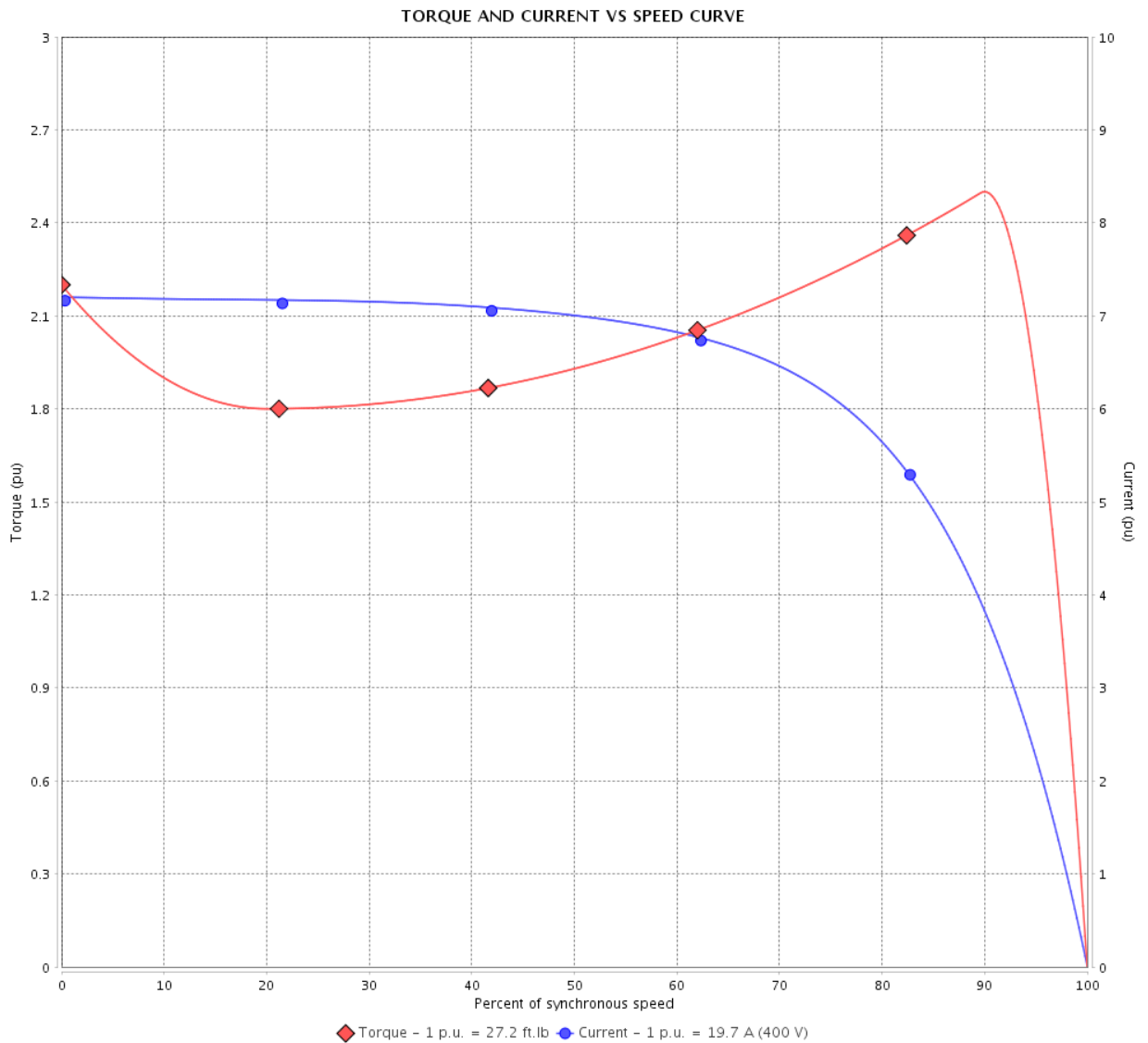
Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12119370

Catalog # : 01536ET3E215JM-W22



Performance : 400 V 50 Hz 2P IE2

Rated current	: 19.7 A	Moment of inertia (J)	: 0.6362 sq.ft.lb
LRC	: 6.7	Duty cycle	: Cont.(S1)
Rated torque	: 27.2 ft.lb	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.00
Breakdown torque	: 250 %	Temperature rise	: 105 K
Rated speed	: 2900 rpm	Design	: A

Locked rotor time : 19s (cold) 11s (hot)

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 7 / 36	Revision
Checked by				
Date	13/04/2022			

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



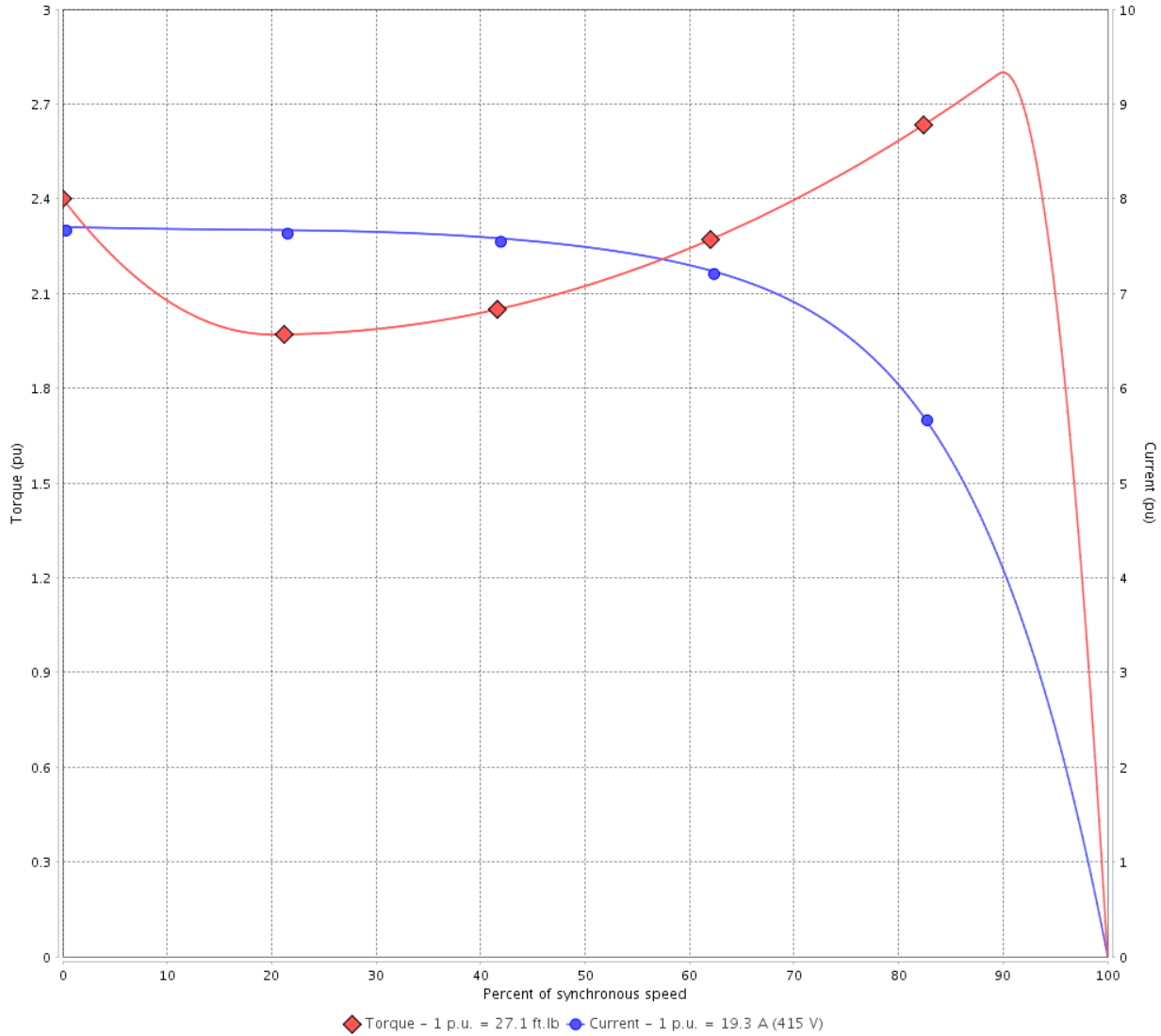
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12119370

Catalog # : 01536ET3E215JM-W22

TORQUE AND CURRENT VS SPEED CURVE



Performance : 415 V 50 Hz 2P IE2

Rated current	: 19.3 A	Moment of inertia (J)	: 0.6362 sq.ft.lb
LRC	: 7.2	Duty cycle	: Cont.(S1)
Rated torque	: 27.1 ft.lb	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.00
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 2905 rpm	Design	: A

Locked rotor time : 19s (cold) 11s (hot)

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 8 / 36	Revision
Checked by				
Date	13/04/2022			

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

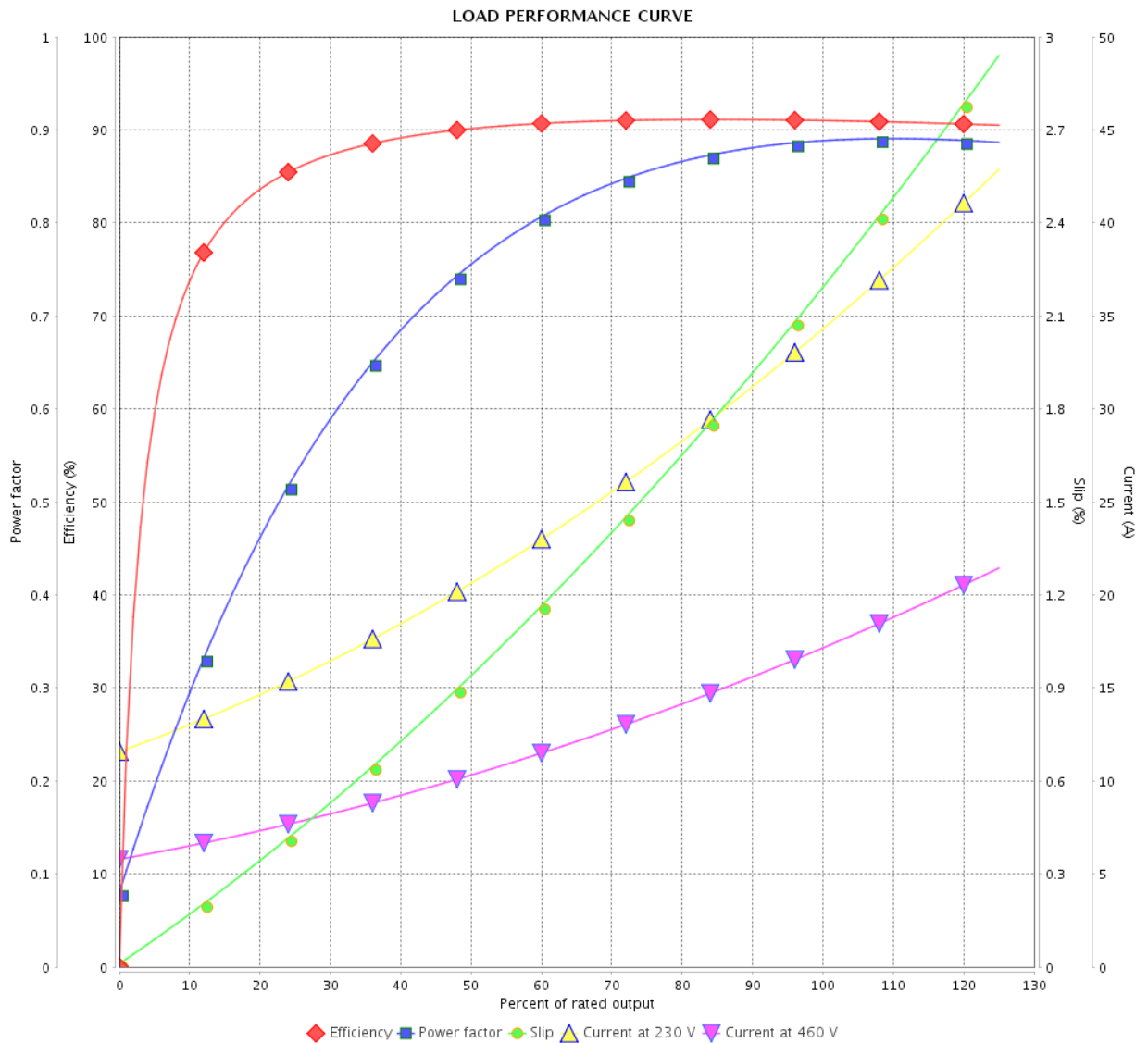


Customer : _____

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12119370

Catalog # : 01536ET3E215JM-W22



Performance : 230/460 V 60 Hz 2P

Rated current : 34.0/17.0 A
 LRC : 7.6
 Rated torque : 22.4 ft.lb
 Locked rotor torque : 240 %
 Breakdown torque : 280 %
 Rated speed : 3510 rpm

Moment of inertia (J) : 0.6362 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : A

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page		Revision
Checked by		9 / 36		
Date		13/04/2022		

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



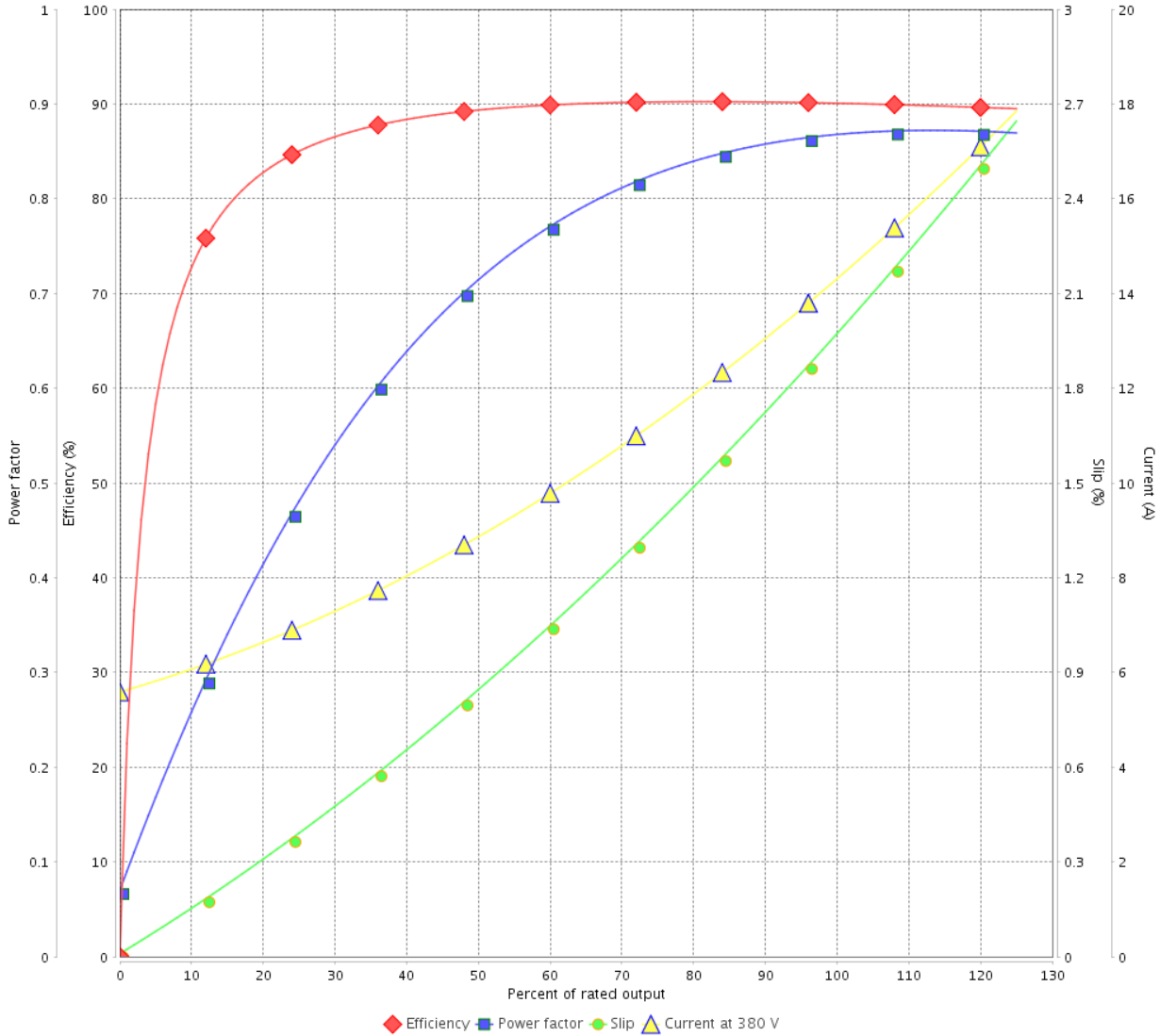
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12119370

Catalog # : 01536ET3E215JM-W22

LOAD PERFORMANCE CURVE



Performance : 380 V 50 Hz 2P IE3

Rated current : 14.4 A
 LRC : 8.6
 Rated torque : 17.9 ft.lb
 Locked rotor torque : 280 %
 Breakdown torque : 340 %
 Rated speed : 2930 rpm

Moment of inertia (J) : 0.6362 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : A

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page	Revision
Checked by			10 / 36	
Date	13/04/2022			

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

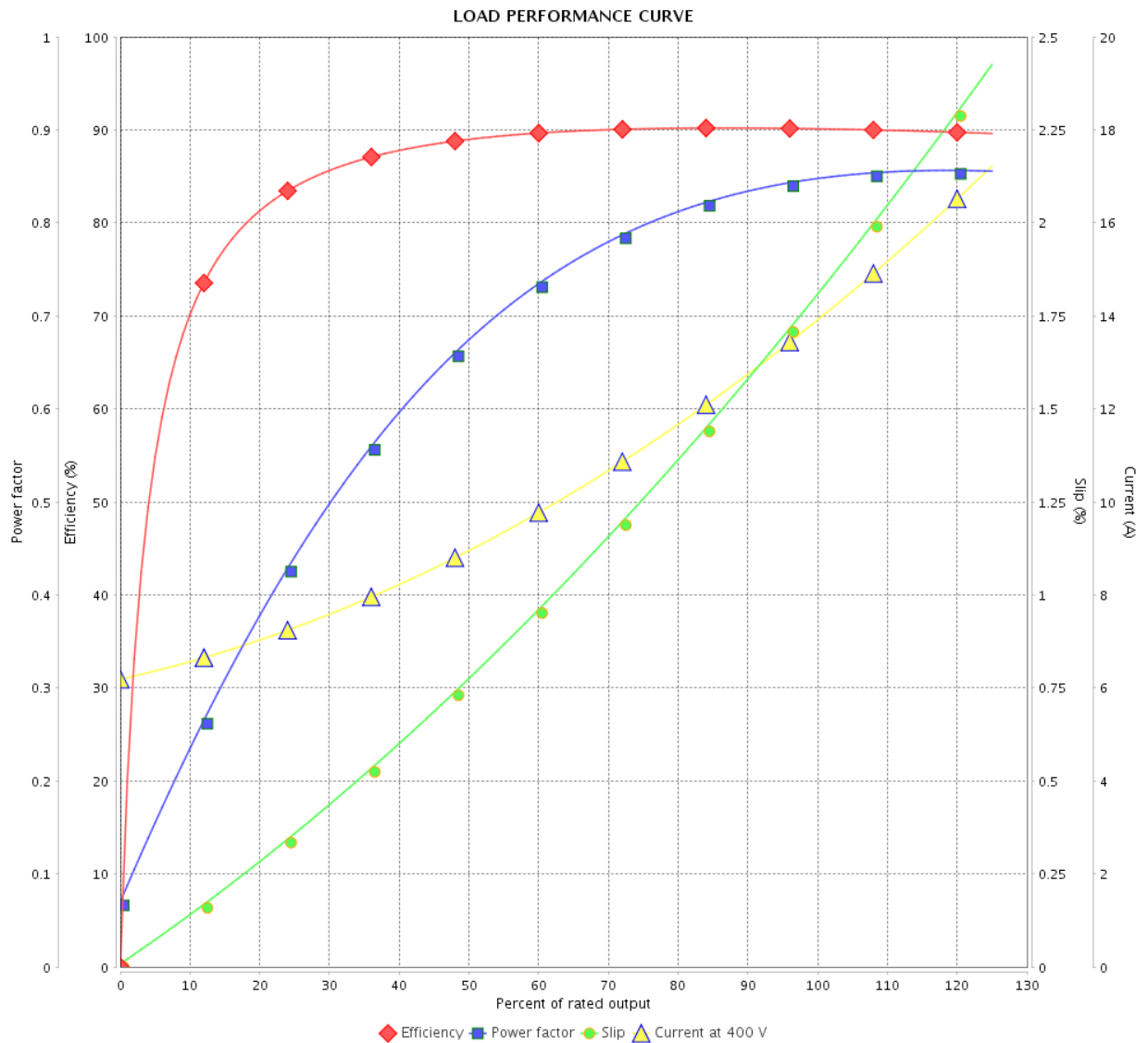


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12119370

Catalog # : 01536ET3E215JM-W22



Performance : 400 V 50 Hz 2P IE3

Rated current : 14.1 A
 LRC : 9.4
 Rated torque : 17.8 ft.lb
 Locked rotor torque : 320 %
 Breakdown torque : 380 %
 Rated speed : 2935 rpm

Moment of inertia (J) : 0.6362 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : A

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page		Revision
Checked by		11 / 36		
Date		13/04/2022		

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



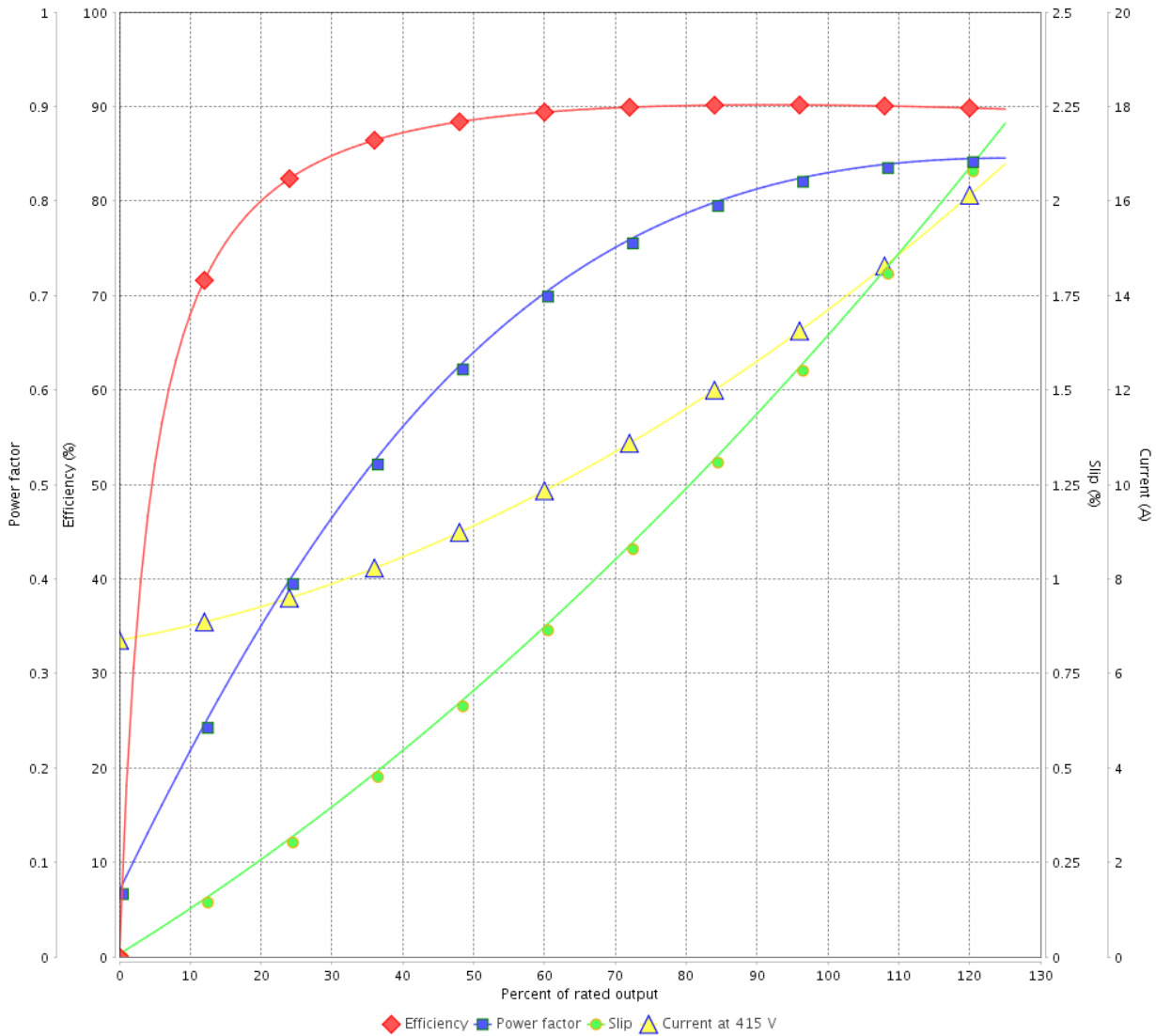
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12119370

Catalog # : 01536ET3E215JM-W22

LOAD PERFORMANCE CURVE



Performance : 415 V 50 Hz 2P IE3

Rated current : 14.0 A
 LRC : 10.0
 Rated torque : 17.8 ft.lb
 Locked rotor torque : 340 %
 Breakdown torque : 420 %
 Rated speed : 2940 rpm

Moment of inertia (J) : 0.6362 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : A

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

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

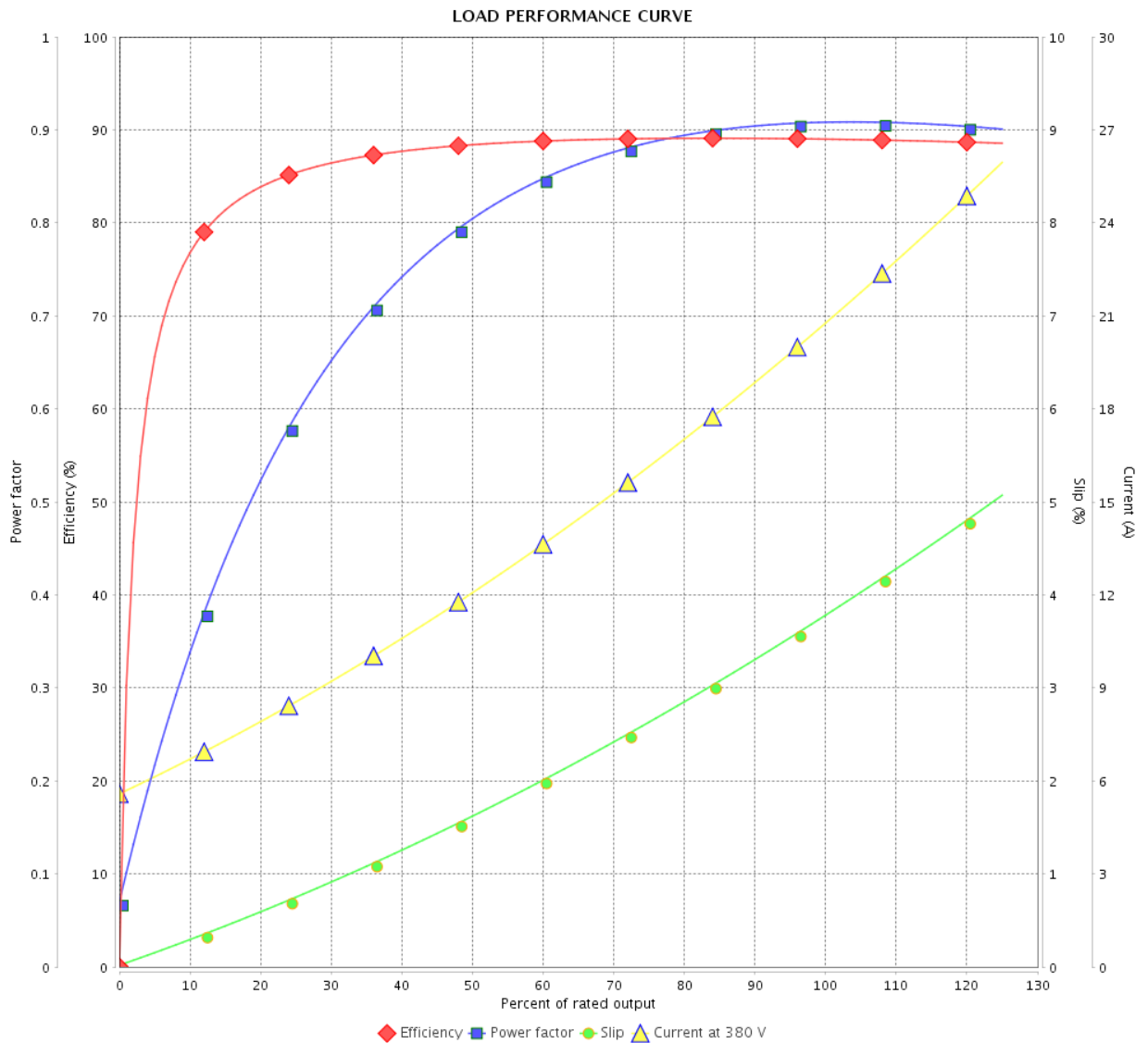


Customer : _____

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12119370

Catalog # : 01536ET3E215JM-W22



Performance : 380 V 50 Hz 2P IE1

Rated current : 20.6 A
 LRC : 6.0
 Rated torque : 27.3 ft.lb
 Locked rotor torque : 190 %
 Breakdown torque : 220 %
 Rated speed : 2885 rpm

Moment of inertia (J) : 0.6362 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : A

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

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



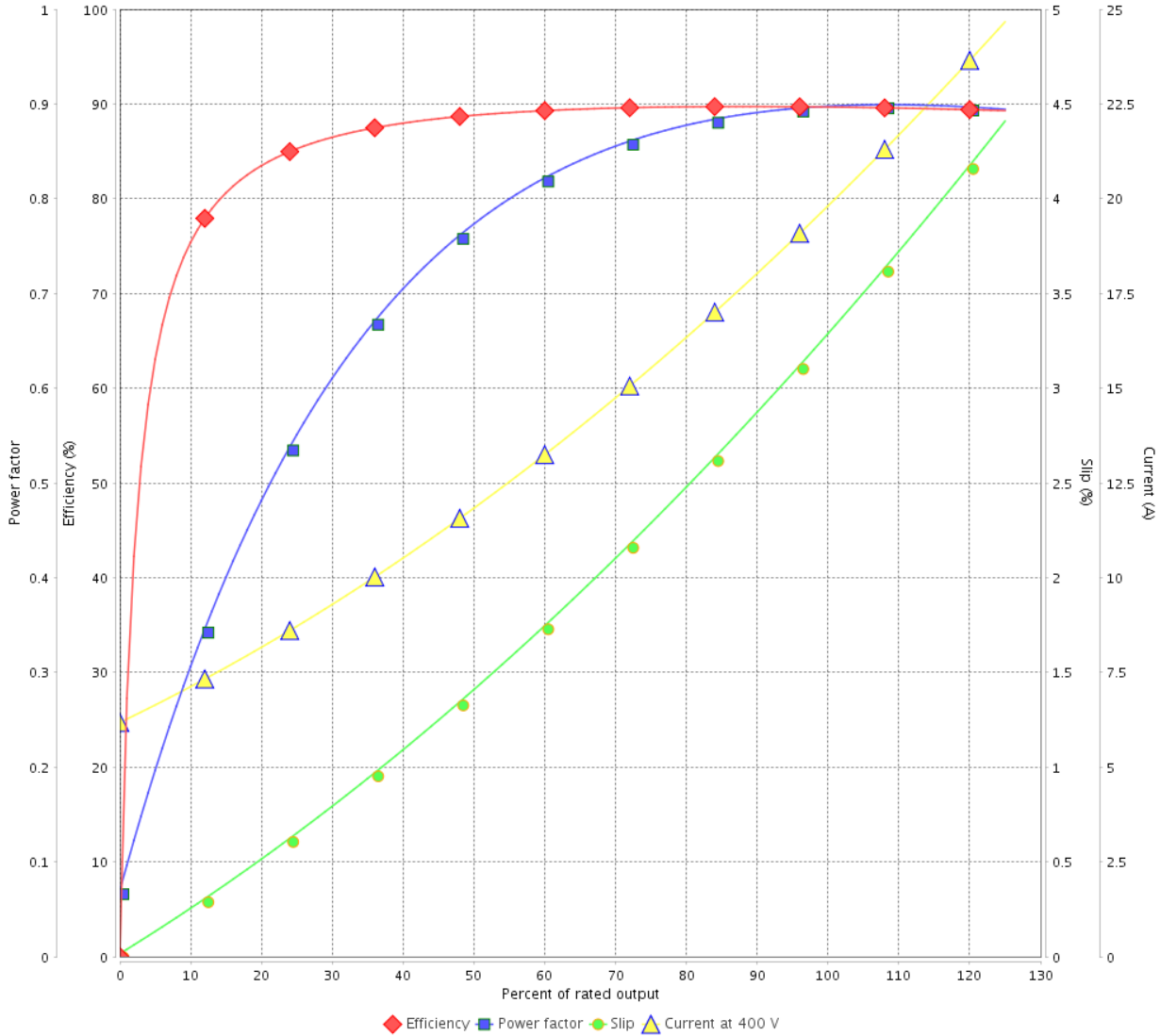
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12119370

Catalog # : 01536ET3E215JM-W22

LOAD PERFORMANCE CURVE



Performance : 400 V 50 Hz 2P IE2

Rated current : 19.7 A
 LRC : 6.7
 Rated torque : 27.2 ft.lb
 Locked rotor torque : 220 %
 Breakdown torque : 250 %
 Rated speed : 2900 rpm

Moment of inertia (J) : 0.6362 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : A

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 14 / 36	Revision
Checked by				
Date	13/04/2022			

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

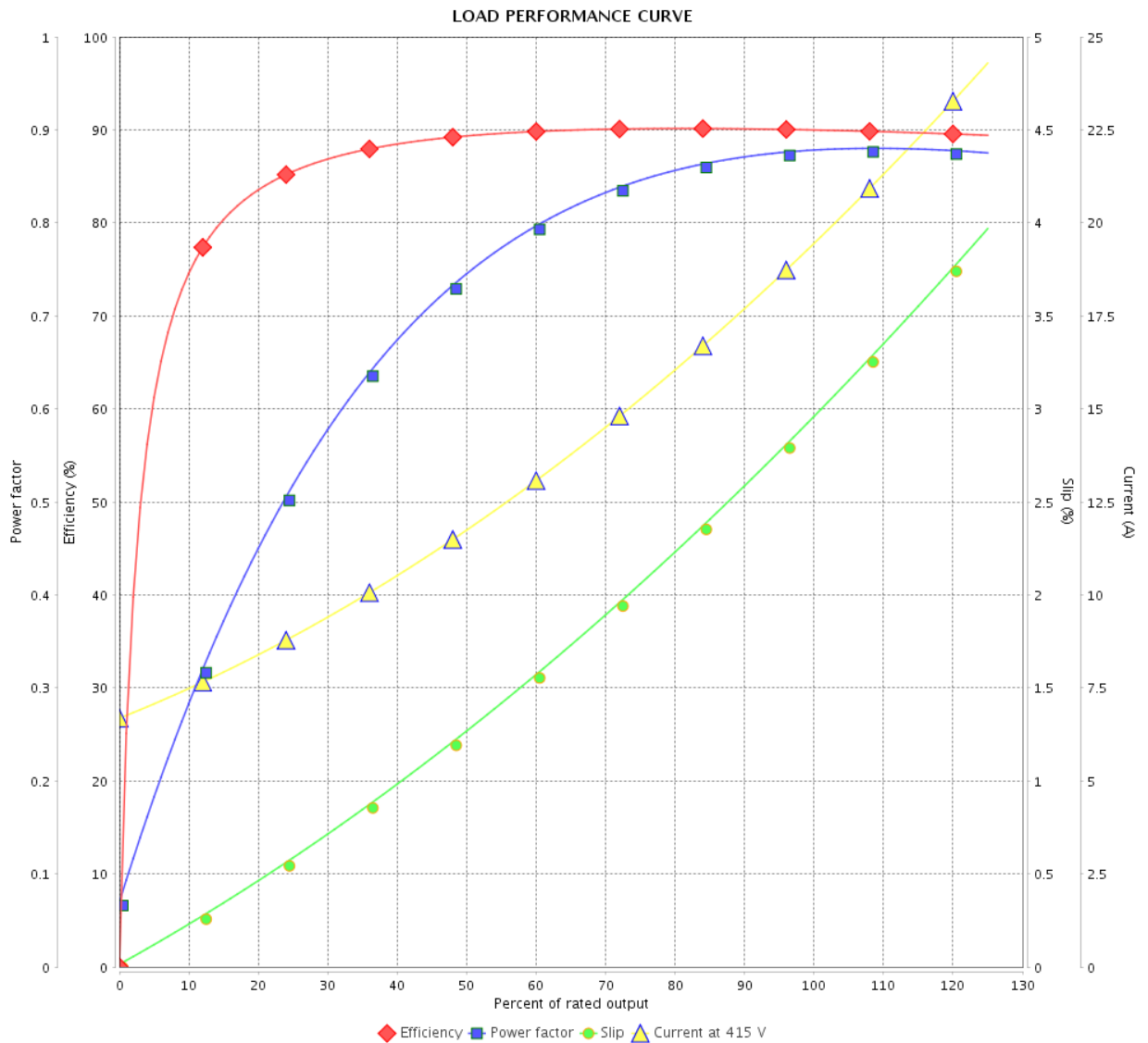


Customer : _____

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12119370

Catalog # : 01536ET3E215JM-W22



Performance : 415 V 50 Hz 2P IE2

Rated current : 19.3 A
 LRC : 7.2
 Rated torque : 27.1 ft.lb
 Locked rotor torque : 240 %
 Breakdown torque : 280 %
 Rated speed : 2905 rpm

Moment of inertia (J) : 0.6362 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : A

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page		Revision
Checked by		15 / 36		
Date		13/04/2022		

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase
Product code : 12119370
Catalog # : 01536ET3E215JM-W22

Performance : 230/460 V 60 Hz 2P

Rated current	: 34.0/17.0 A	Moment of inertia (J)	: 0.6362 sq.ft.lb
LRC	: 7.6	Duty cycle	: Cont.(S1)
Rated torque	: 22.4 ft.lb	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.25
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 3510 rpm	Design	: A

Heating constant

Cooling constant

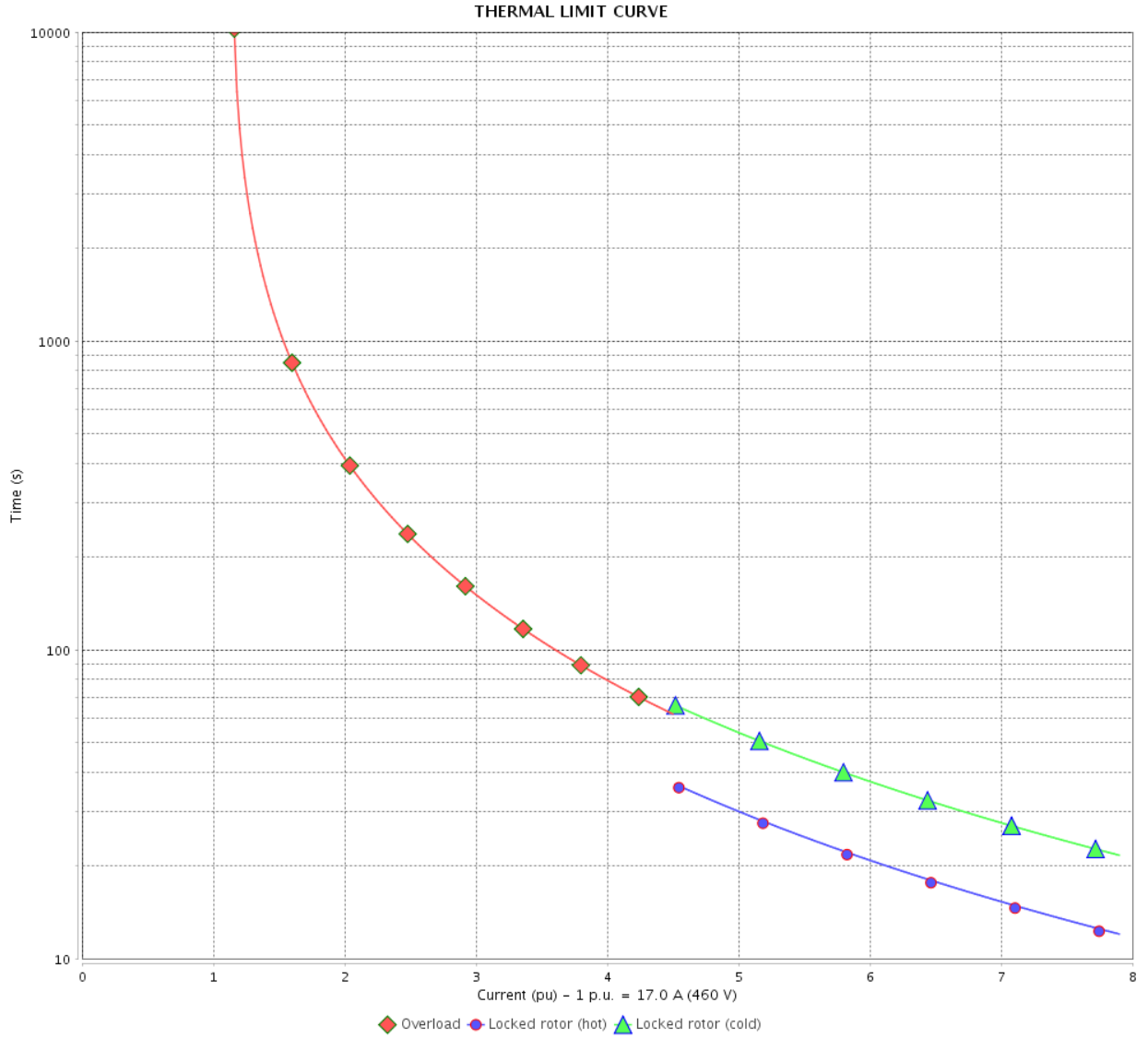
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	13/04/2022		16 / 36	

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 : 12119370
 Catalog # : 01536ET3E215JM-W22

Performance : 380 V 50 Hz 2P IE3

Rated current : 14.4 A	Moment of inertia (J) : 0.6362 sq.ft.lb
LRC : 8.6	Duty cycle : Cont.(S1)
Rated torque : 17.9 ft.lb	Insulation class : F
Locked rotor torque : 280 %	Service factor : 1.15
Breakdown torque : 340 %	Temperature rise : 80 K
Rated speed : 2930 rpm	Design : A

Heating constant

Cooling constant

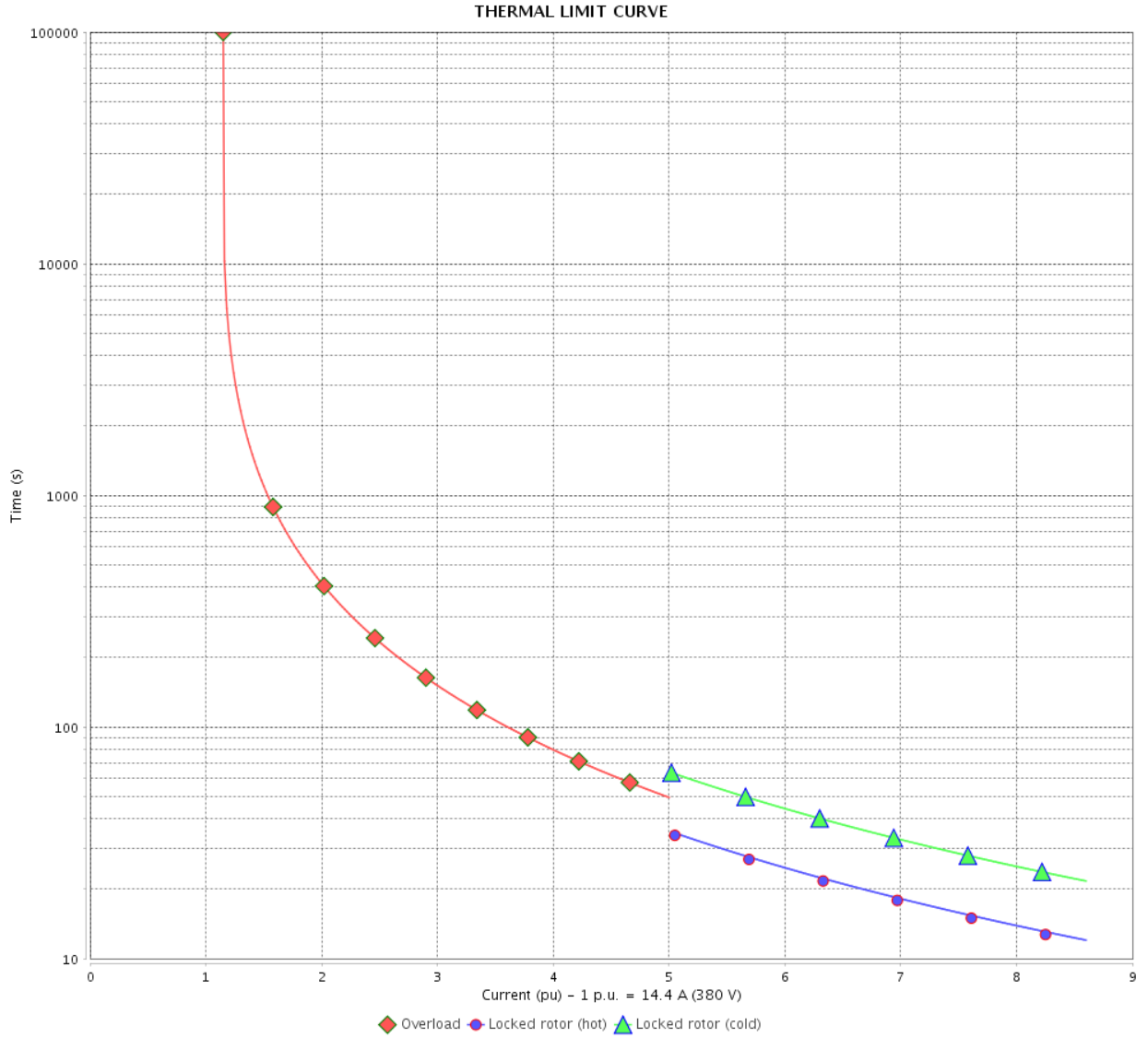
Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 18 / 36	Revision
Checked by				
Date	13/04/2022			

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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

THERMAL LIMIT CURVE



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase
Product code : 12119370
Catalog # : 01536ET3E215JM-W22

Performance : 400 V 50 Hz 2P IE3

Rated current	: 14.1 A	Moment of inertia (J)	: 0.6362 sq.ft.lb
LRC	: 9.4	Duty cycle	: Cont.(S1)
Rated torque	: 17.8 ft.lb	Insulation class	: F
Locked rotor torque	: 320 %	Service factor	: 1.15
Breakdown torque	: 380 %	Temperature rise	: 80 K
Rated speed	: 2935 rpm	Design	: A

Heating constant

Cooling constant

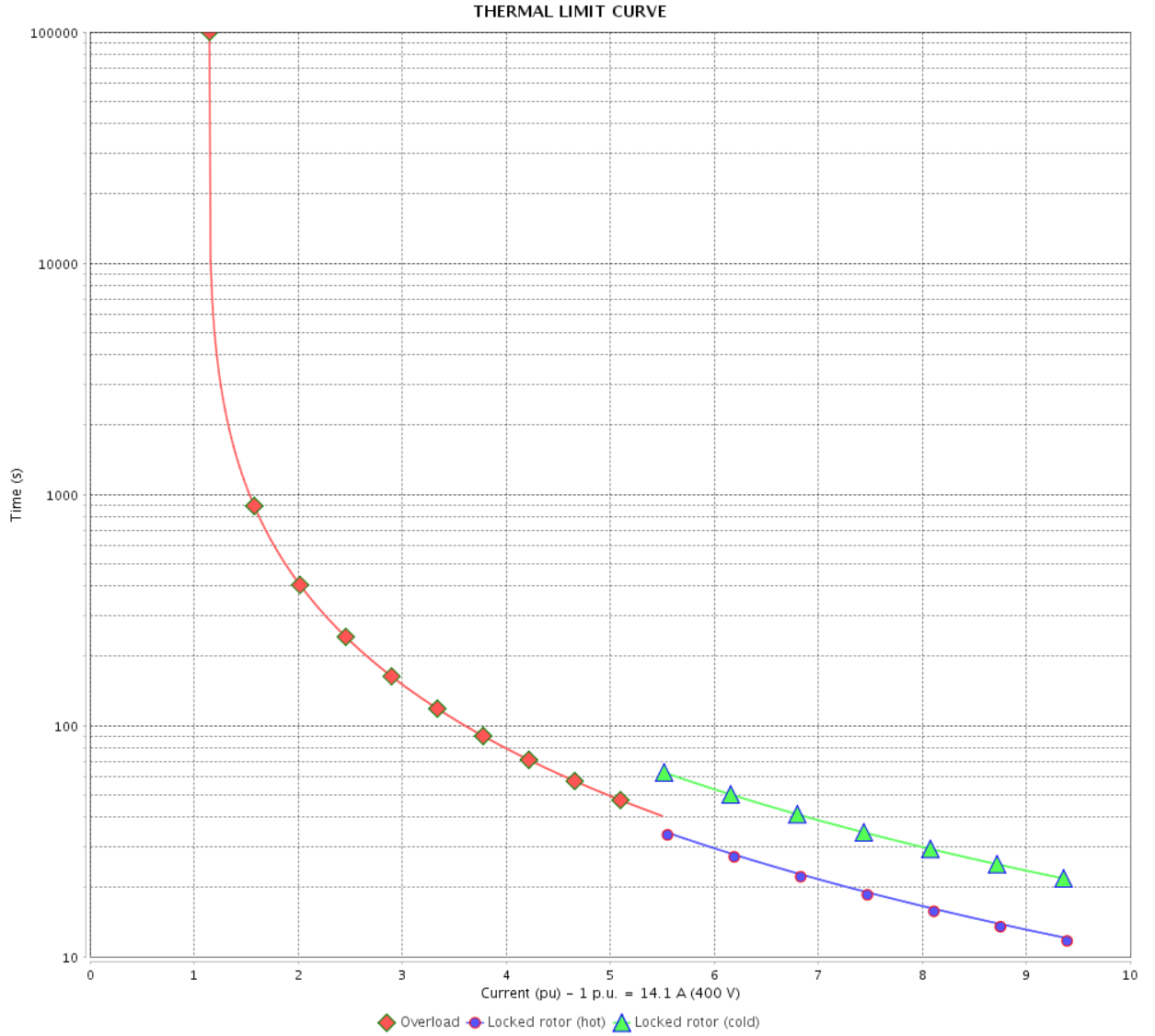
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	13/04/2022		20 / 36	

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	13/04/2022			

THERMAL LIMIT CURVE



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase
Product code : 12119370
Catalog # : 01536ET3E215JM-W22

Performance : 415 V 50 Hz 2P IE3

Rated current	: 14.0 A	Moment of inertia (J)	: 0.6362 sq.ft.lb
LRC	: 10.0	Duty cycle	: Cont.(S1)
Rated torque	: 17.8 ft.lb	Insulation class	: F
Locked rotor torque	: 340 %	Service factor	: 1.15
Breakdown torque	: 420 %	Temperature rise	: 80 K
Rated speed	: 2940 rpm	Design	: A

Heating constant

Cooling constant

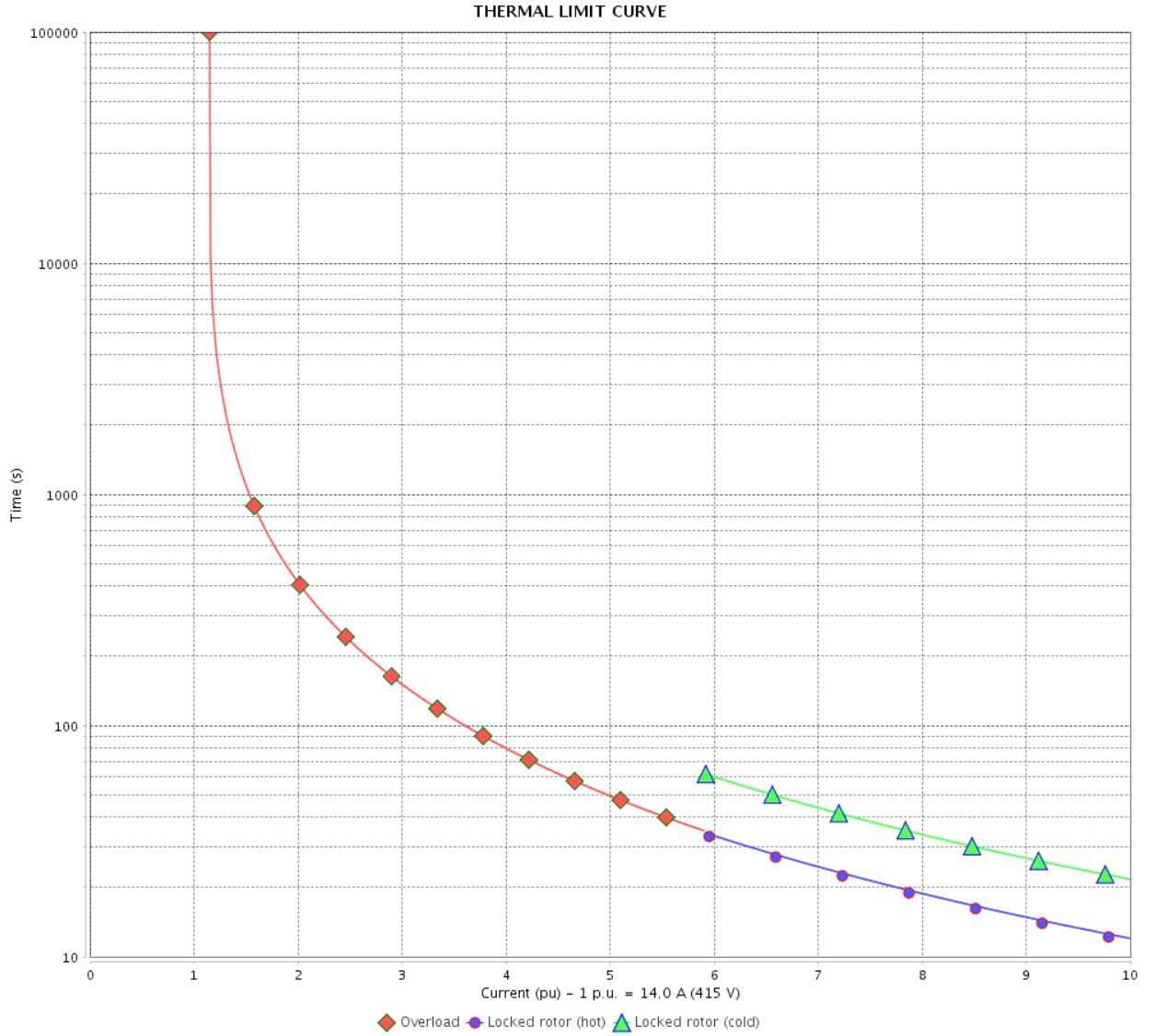
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	13/04/2022		22 / 36	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page		Revision
Checked by		23 / 36		
Date		13/04/2022		

THERMAL LIMIT CURVE



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase
Product code : 12119370
Catalog # : 01536ET3E215JM-W22

Performance : 380 V 50 Hz 2P IE1

Rated current	: 20.6 A	Moment of inertia (J)	: 0.6362 sq.ft.lb
LRC	: 6.0	Duty cycle	: Cont.(S1)
Rated torque	: 27.3 ft.lb	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 220 %	Temperature rise	: 105 K
Rated speed	: 2885 rpm	Design	: A

Heating constant

Cooling constant

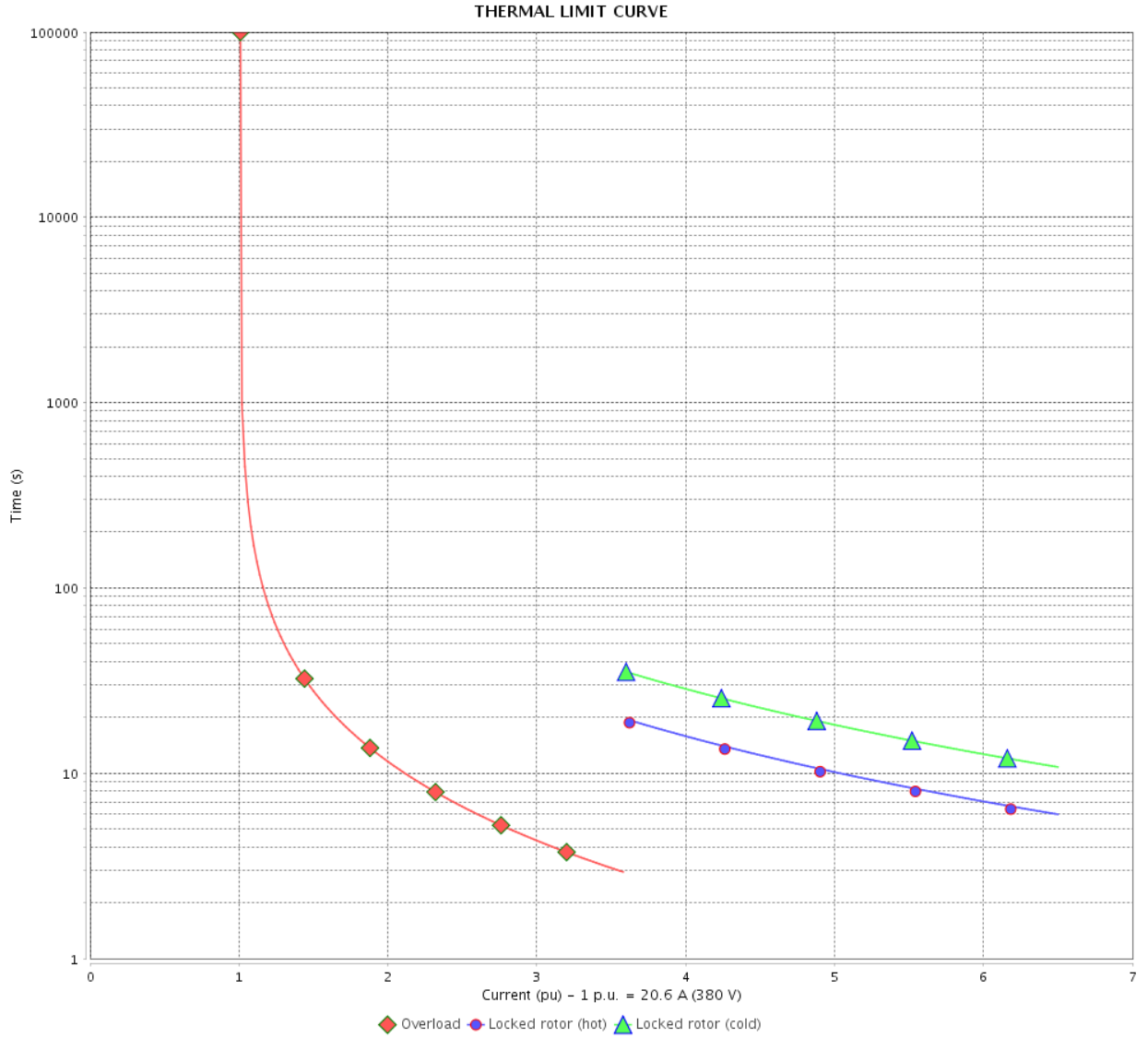
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	13/04/2022		24 / 36	

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 : 12119370
Catalog # : 01536ET3E215JM-W22

Performance : 400 V 50 Hz 2P IE2

Rated current	: 19.7 A	Moment of inertia (J)	: 0.6362 sq.ft.lb
LRC	: 6.7	Duty cycle	: Cont.(S1)
Rated torque	: 27.2 ft.lb	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.00
Breakdown torque	: 250 %	Temperature rise	: 105 K
Rated speed	: 2900 rpm	Design	: A

Heating constant

Cooling constant

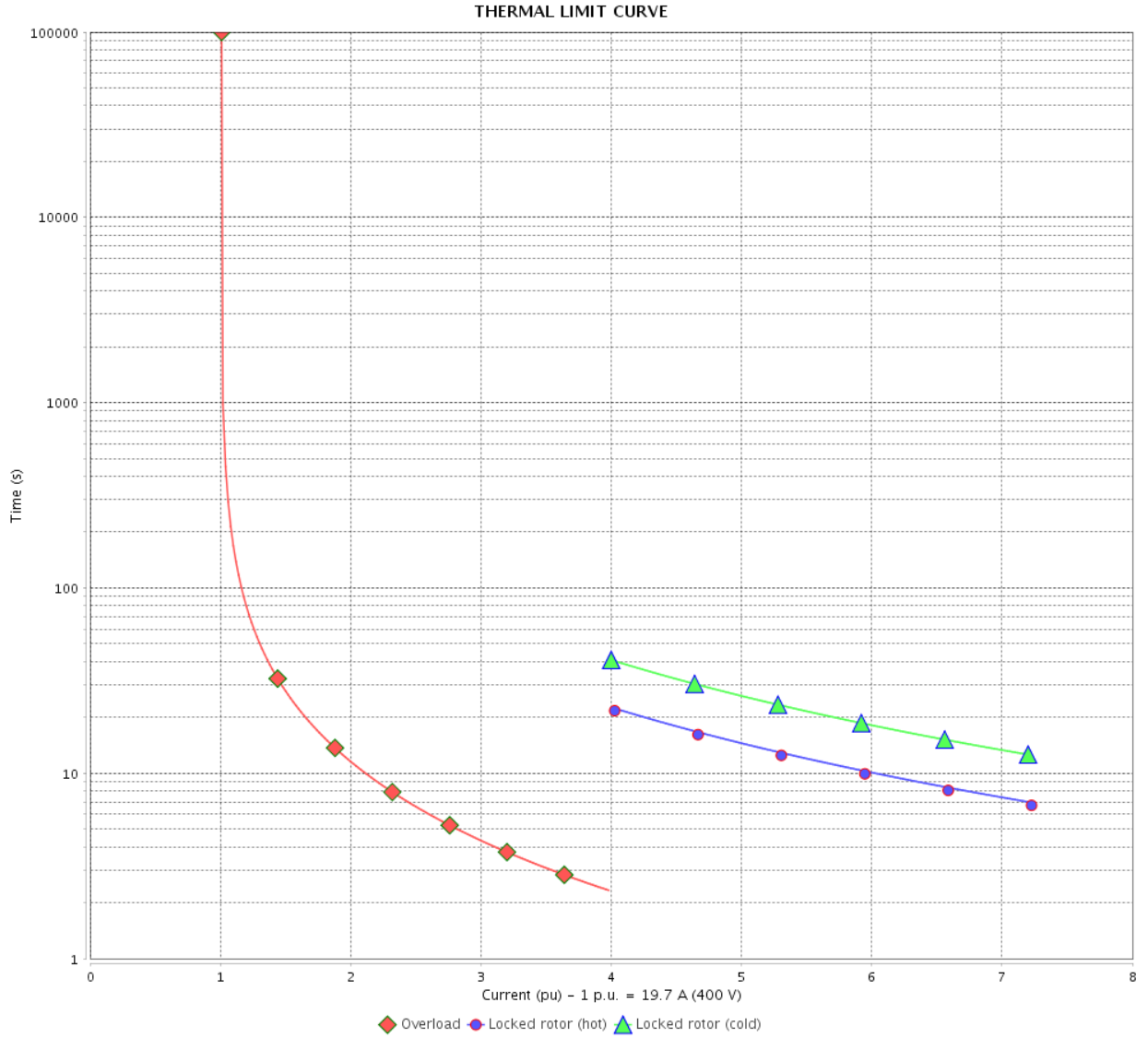
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	13/04/2022		26 / 36	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page		Revision
Checked by		27 / 36		
Date		13/04/2022		

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase
Product code : 12119370
Catalog # : 01536ET3E215JM-W22

Performance : 415 V 50 Hz 2P IE2

Rated current	: 19.3 A	Moment of inertia (J)	: 0.6362 sq.ft.lb
LRC	: 7.2	Duty cycle	: Cont.(S1)
Rated torque	: 27.1 ft.lb	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.00
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 2905 rpm	Design	: A

Heating constant

Cooling constant

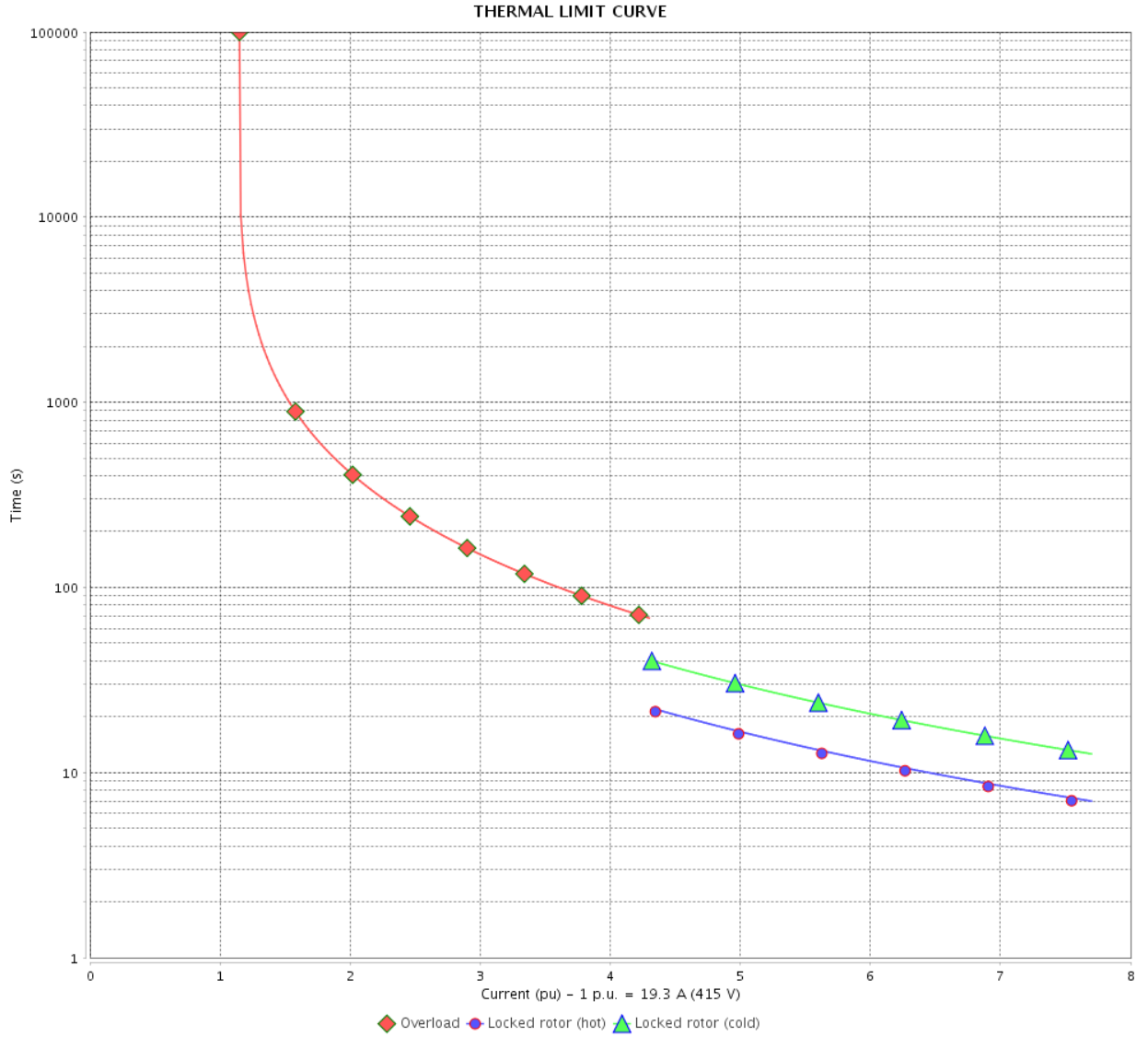
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	13/04/2022		28 / 36	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



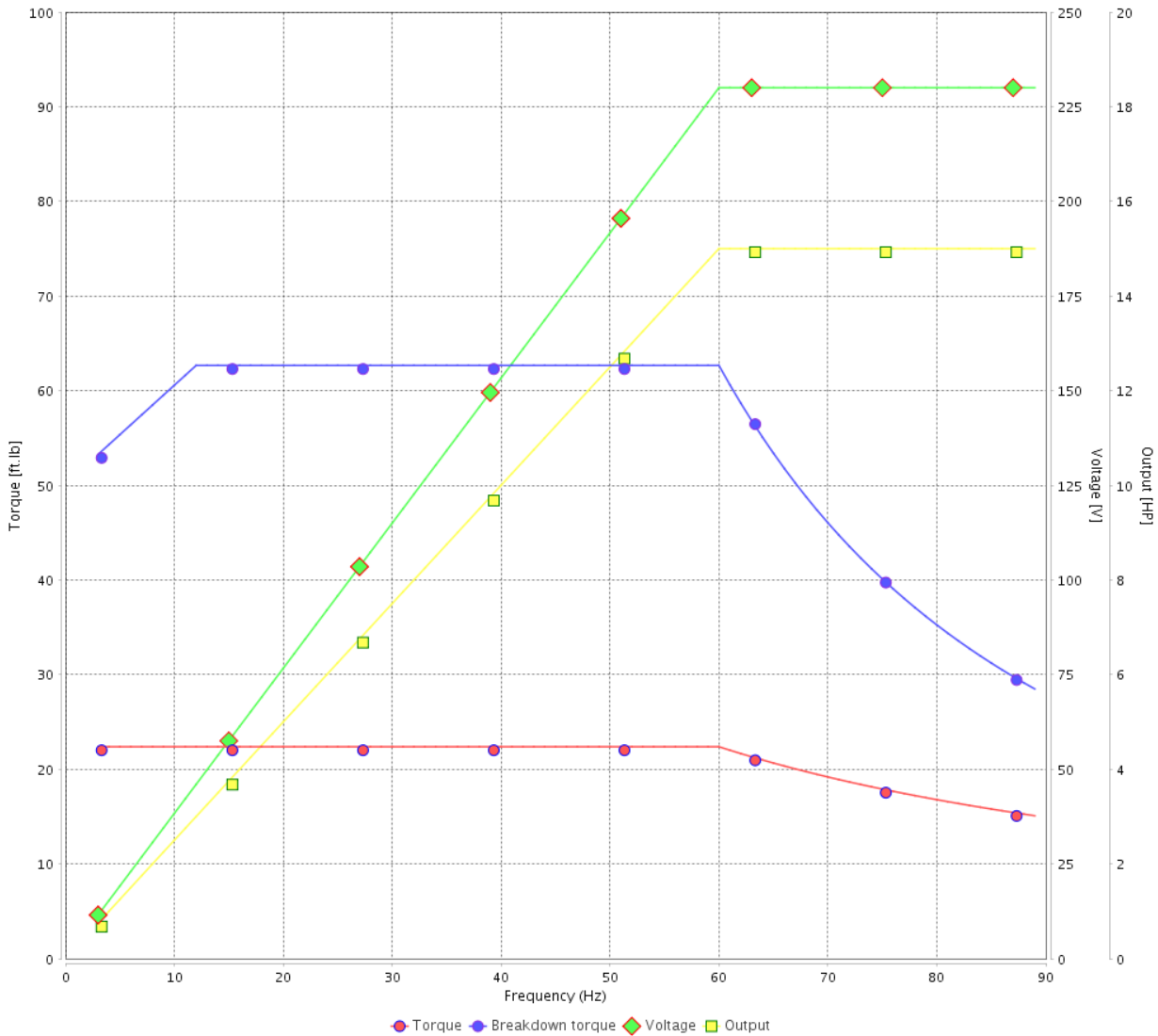
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12119370

Catalog # : 01536ET3E215JM-W22

VFD OPERATION CURVE



Performance : 230/460 V 60 Hz 2P

Rated current : 34.0/17.0 A
 LRC : 7.6
 Rated torque : 22.4 ft.lb
 Locked rotor torque : 240 %
 Breakdown torque : 280 %
 Rated speed : 3510 rpm

Moment of inertia (J) : 0.6362 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : A

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

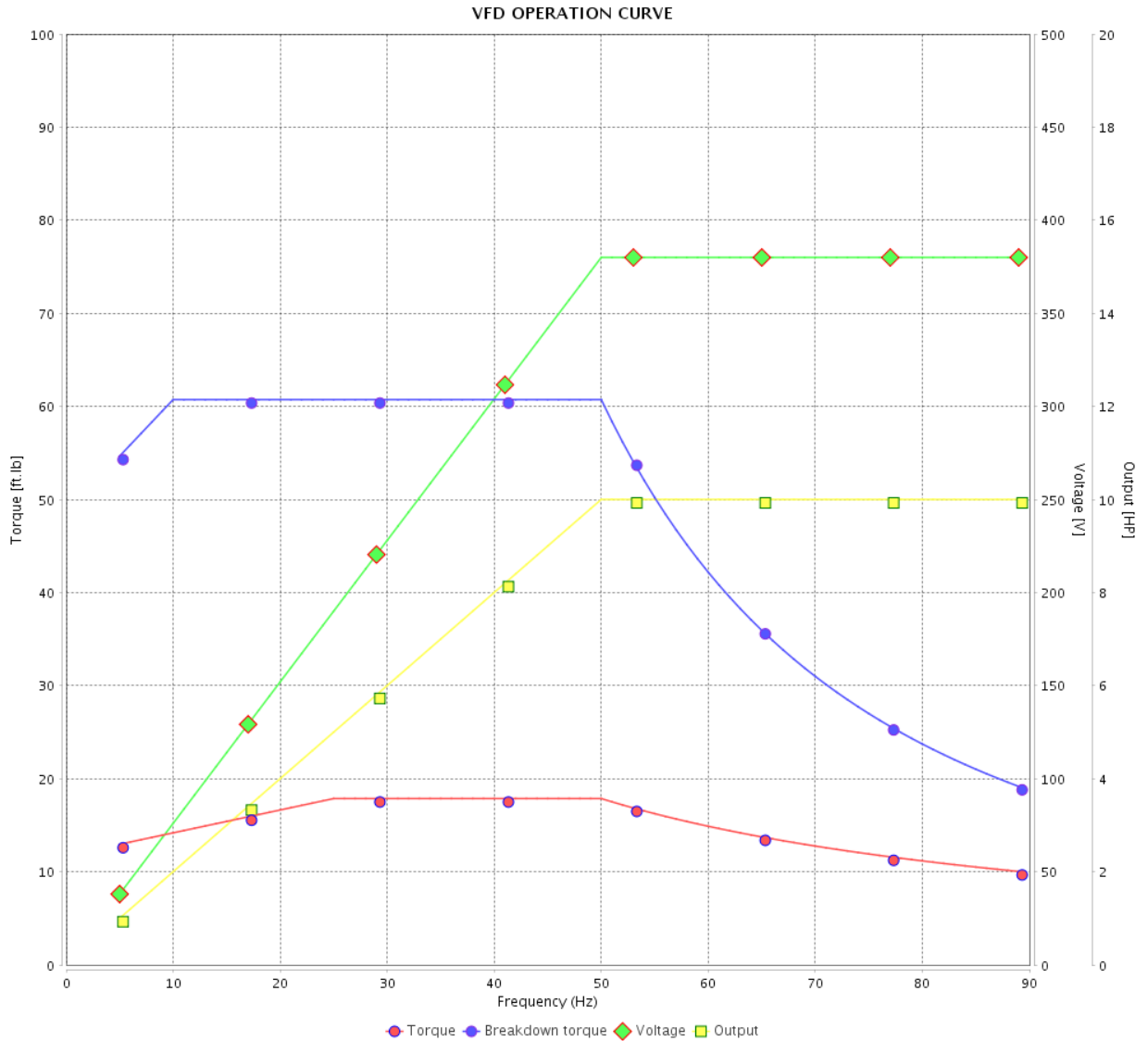
VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase
 Product code : 12119370
 Catalog # : 01536ET3E215JM-W22



Performance : 380 V 50 Hz 2P IE3

Rated current : 14.4 A
 LRC : 8.6
 Rated torque : 17.9 ft.lb
 Locked rotor torque : 280 %
 Breakdown torque : 340 %
 Rated speed : 2930 rpm

Moment of inertia (J) : 0.6362 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : A

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 31 / 36	Revision
Checked by				
Date	13/04/2022			

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



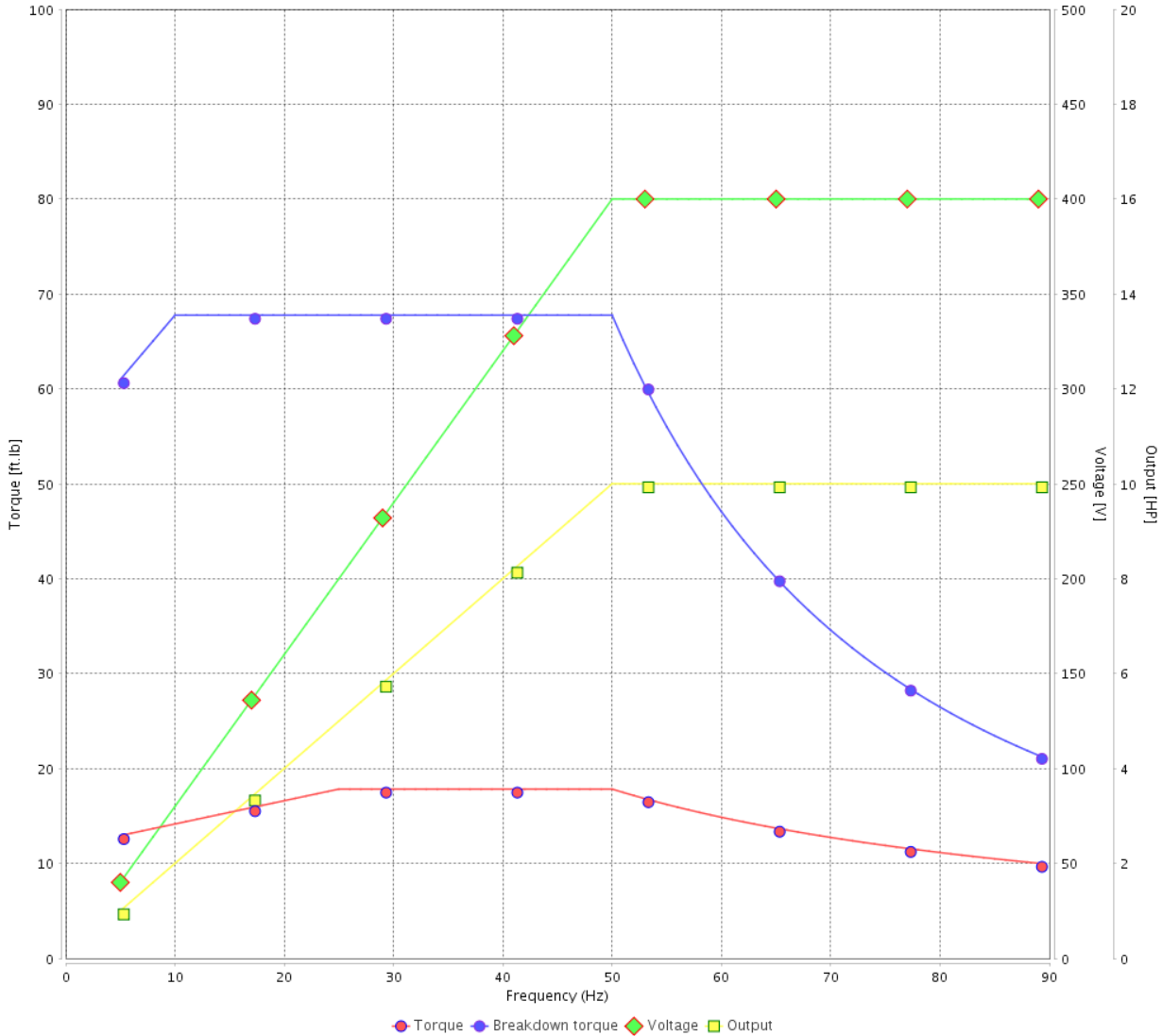
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12119370

Catalog # : 01536ET3E215JM-W22

VFD OPERATION CURVE



Performance : 400 V 50 Hz 2P IE3

Rated current : 14.1 A
 LRC : 9.4
 Rated torque : 17.8 ft.lb
 Locked rotor torque : 320 %
 Breakdown torque : 380 %
 Rated speed : 2935 rpm

Moment of inertia (J) : 0.6362 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : A

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page		Revision
Checked by		32 / 36		
Date		13/04/2022		

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

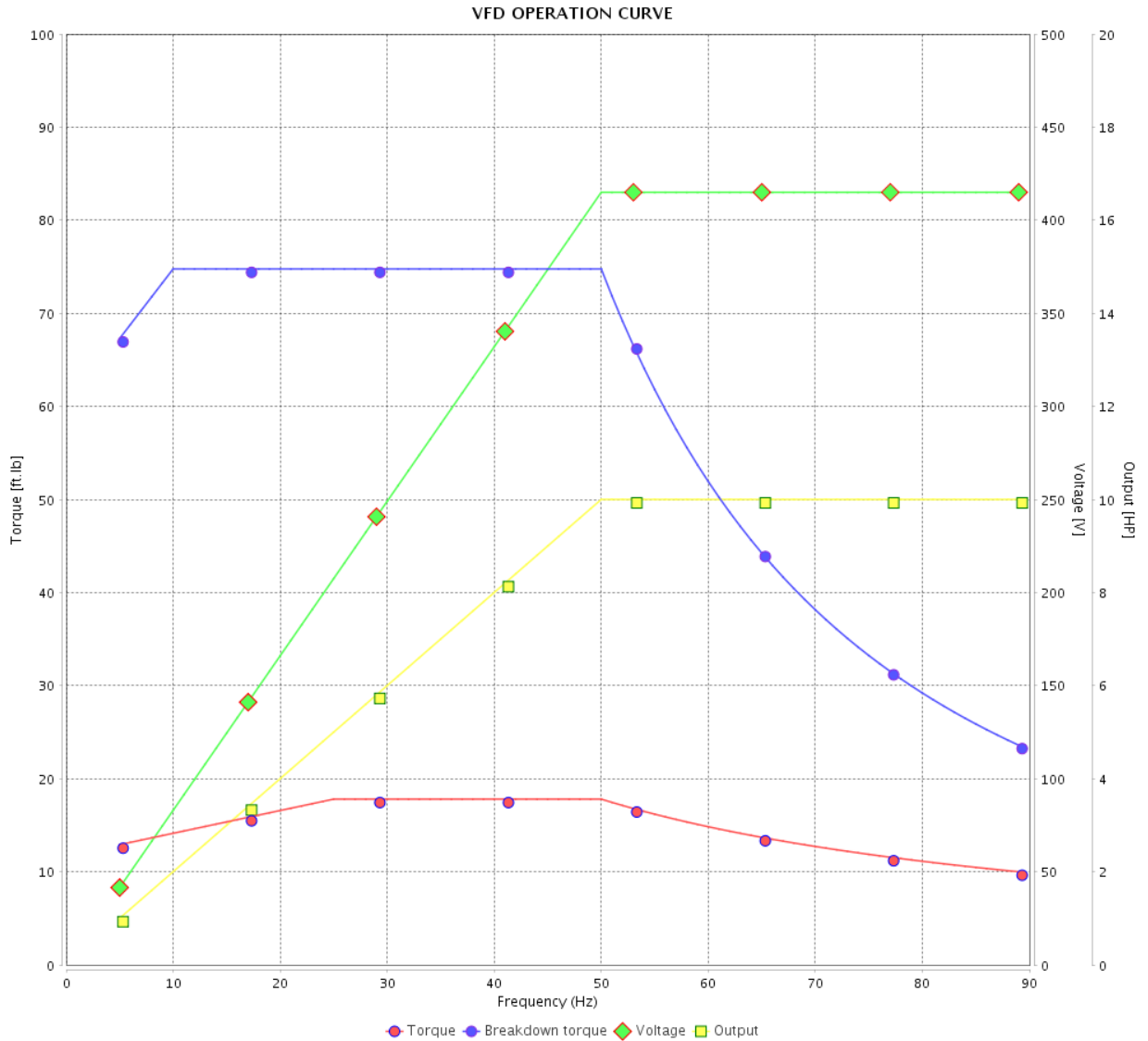


Customer : _____

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12119370

Catalog # : 01536ET3E215JM-W22



Performance : 415 V 50 Hz 2P IE3

Rated current : 14.0 A
 LRC : 10.0
 Rated torque : 17.8 ft.lb
 Locked rotor torque : 340 %
 Breakdown torque : 420 %
 Rated speed : 2940 rpm

Moment of inertia (J) : 0.6362 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : A

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page		Revision
Checked by		33 / 36		
Date	13/04/2022			

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



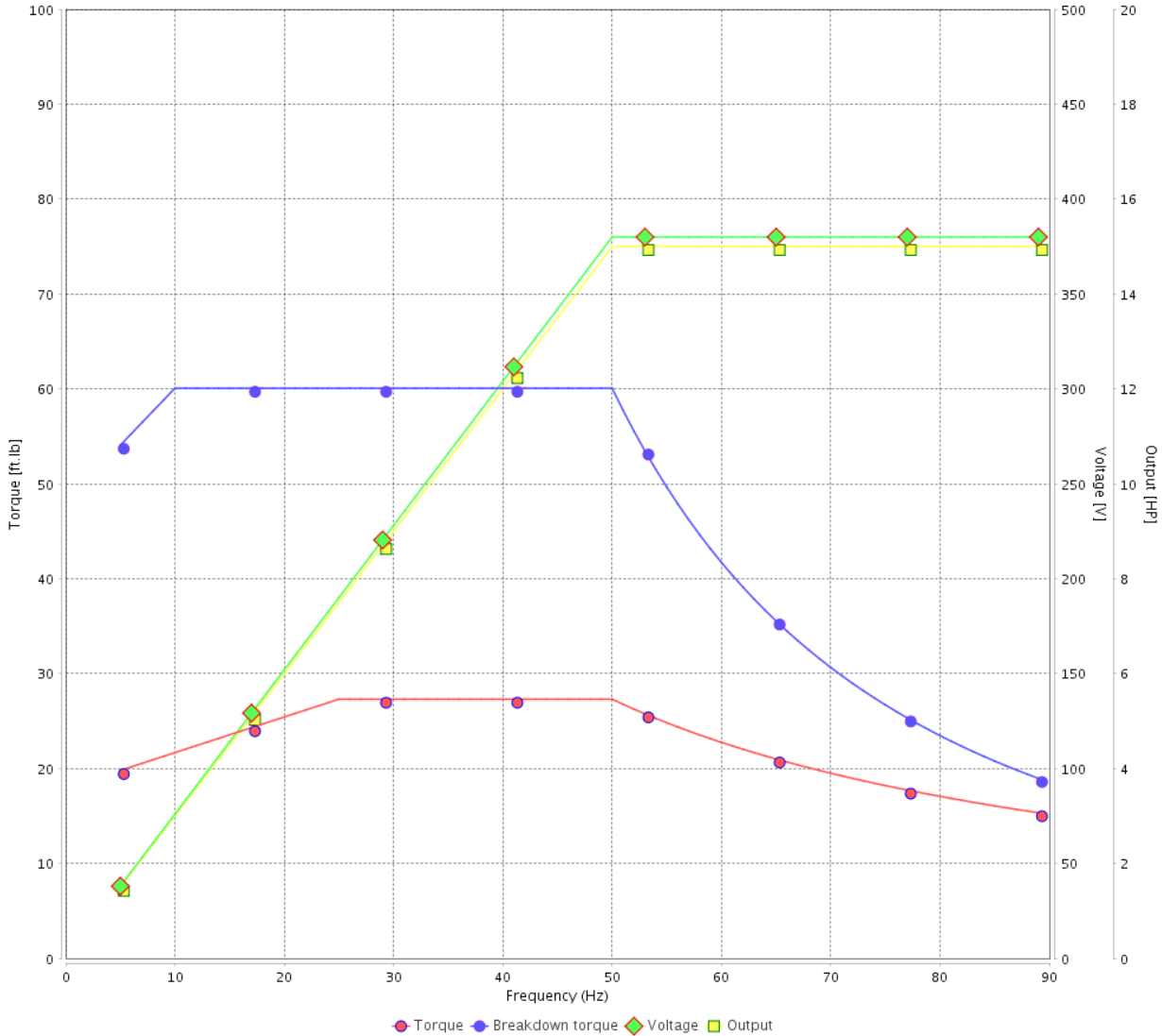
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12119370

Catalog # : 01536ET3E215JM-W22

VFD OPERATION CURVE



Performance : 380 V 50 Hz 2P IE1

Rated current : 20.6 A
 LRC : 6.0
 Rated torque : 27.3 ft.lb
 Locked rotor torque : 190 %
 Breakdown torque : 220 %
 Rated speed : 2885 rpm

Moment of inertia (J) : 0.6362 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : A

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 34 / 36	Revision
Checked by				
Date	13/04/2022			

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

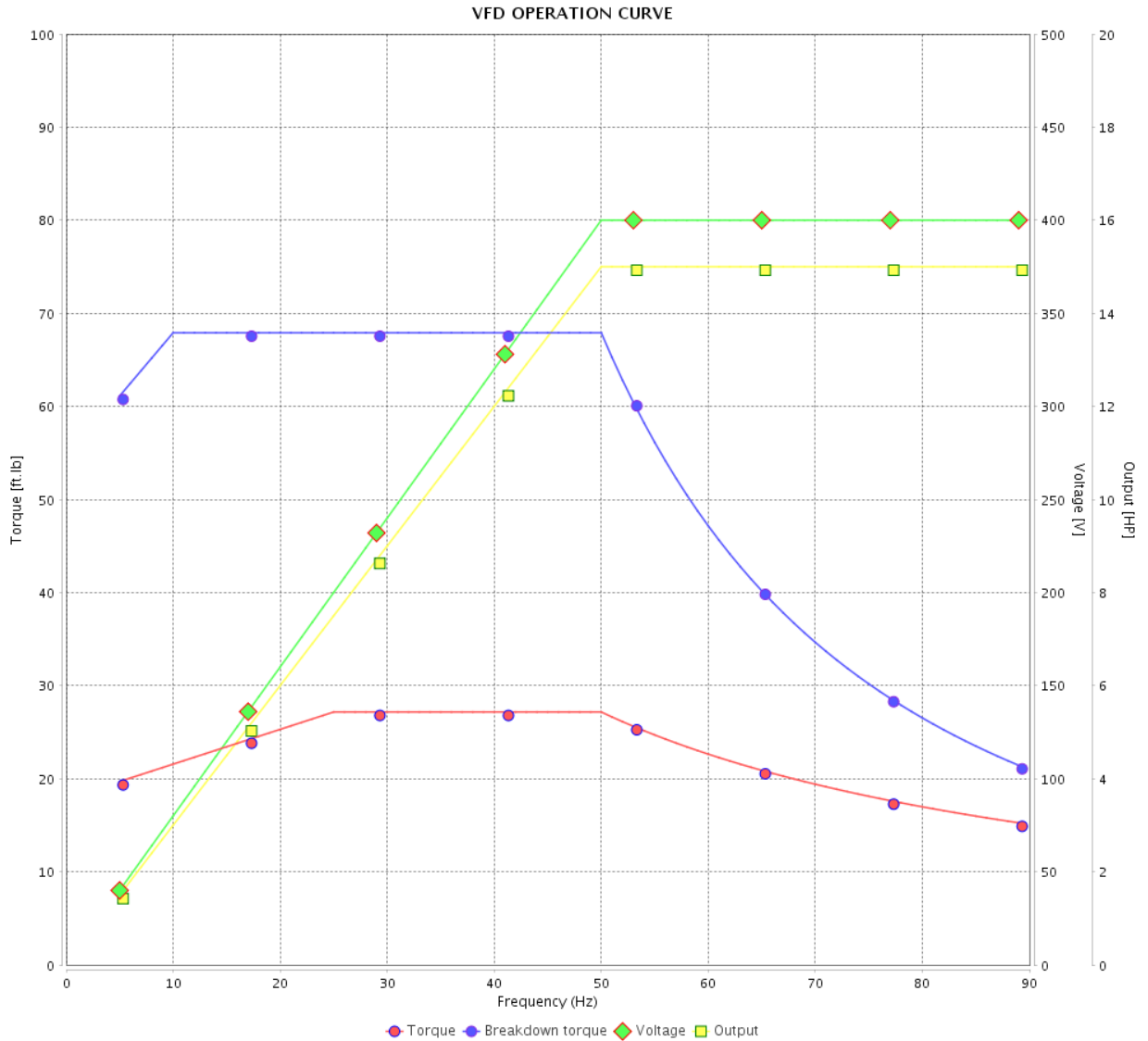


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12119370

Catalog # : 01536ET3E215JM-W22



Performance : 400 V 50 Hz 2P IE2

Rated current : 19.7 A
 LRC : 6.7
 Rated torque : 27.2 ft.lb
 Locked rotor torque : 220 %
 Breakdown torque : 250 %
 Rated speed : 2900 rpm

Moment of inertia (J) : 0.6362 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : A

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 35 / 36	Revision
Checked by				
Date	13/04/2022			

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



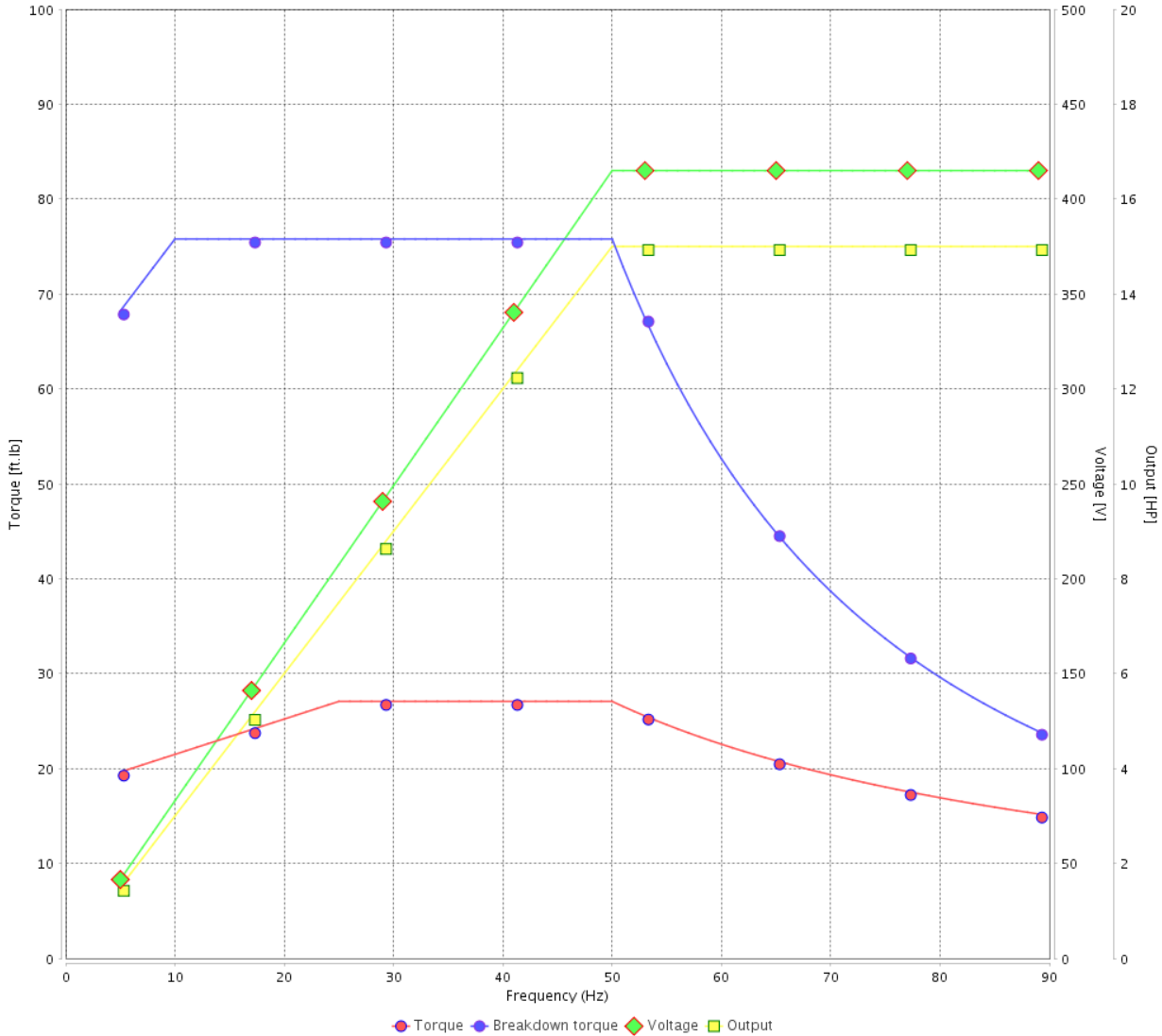
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12119370

Catalog # : 01536ET3E215JM-W22

VFD OPERATION CURVE



Performance : 415 V 50 Hz 2P IE2

Rated current : 19.3 A
 LRC : 7.2
 Rated torque : 27.1 ft.lb
 Locked rotor torque : 240 %
 Breakdown torque : 280 %
 Rated speed : 2905 rpm

Moment of inertia (J) : 0.6362 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : A

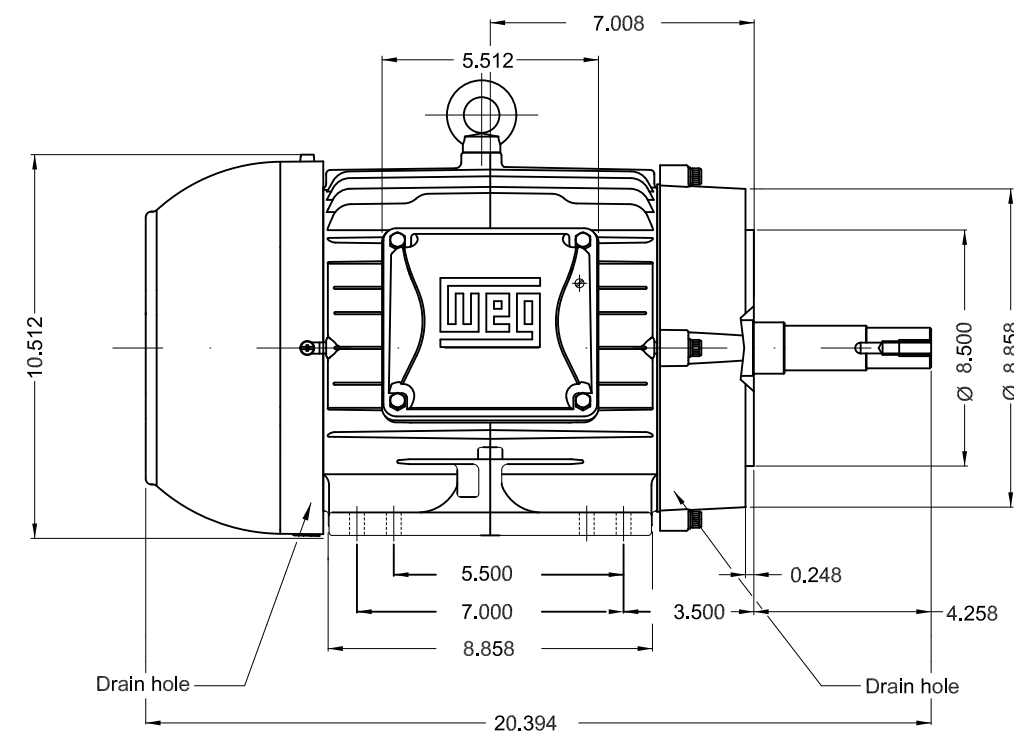
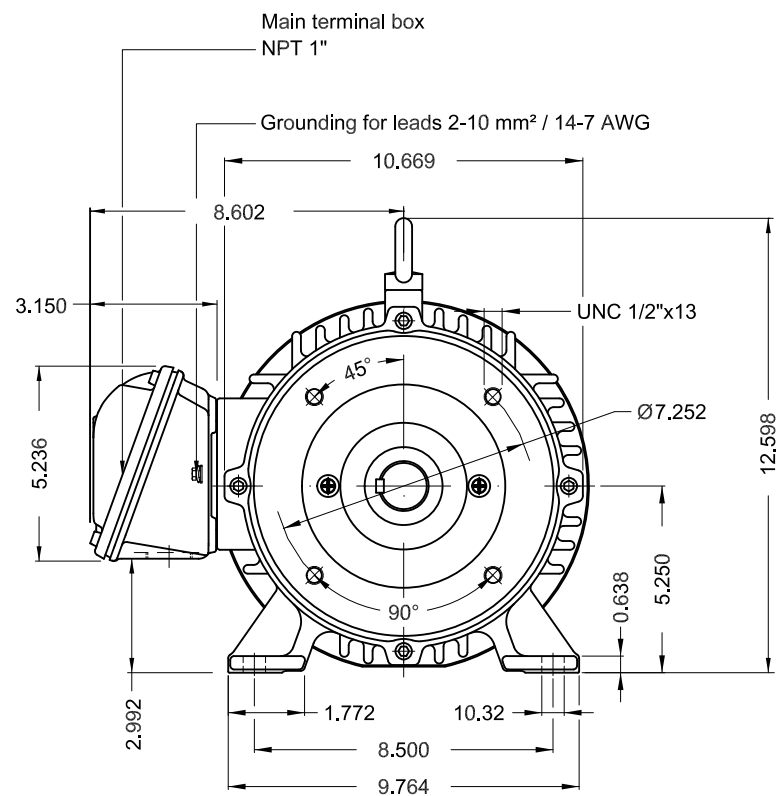
Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 36 / 36	Revision
Checked by				
Date	13/04/2022			

1 2 3 4 5 6

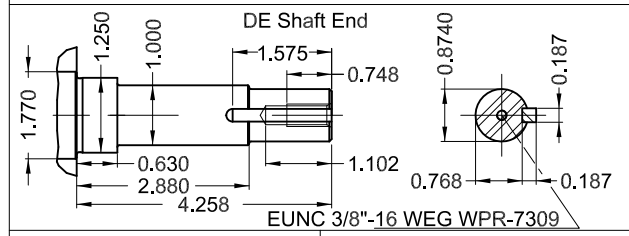
A

B

C



D



E

Color RAL 5009
 Painting plan 207A
 Mounting B34R(D)

15 HP 02 Poles 60 Hz A

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	PIRWBUSER	THREE PH. MOTOR JM/JP/JET PUMP W22 PREM. EFF. FRAME 213/5JM IP55 TEFC					
CHECKED							
RELEASED							
REL DT.	WMO		Jaragua do Sul	Product Engineering	SHEET	1 / 1	

PREVIEW
 WDD



**W22**

CC029A

® Inverter Duty Motor
Severe Duty

12119370

MADE IN BRAZIL MODEL 01536ET3E215JM-W22

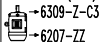
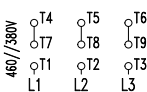
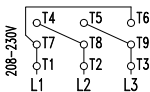
PH 3 | FR 213/5JM | HP(kw) 15.0(11.0) | Hz 60 | SF 1.25 | PF 0.89

V 230/460 | A 34.0/17.0 | RPM 3520 | INS. CL. F Δ T 80 K | IP55

NEMA NOM EFF 91.0 % | DES A | DUTY CONT. | AMB 40°C

ENCL TEFC | SFA 42.5/21.3 | USABLE @208V 37.6 A | SF 1.15 | SFA 43.2

15HP 11kW 50Hz 380V 20.6A 2885RPM SF1.00 EFF 89.0% (IE1) | CODE J

MOBIL POLYREX EM
13 g 19000 h

ALT 1000 m.a.s.l. | 179 Lbs

For 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, 1.0SF, T3A

FOR SAFE AREA
MOD.TE1BFOXON