

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :				
Product line	: JP Pump NEMA Premium Efficiency Three-Phase	Product code :	13483001	
		Catalog # :	02536OT3E256JPV-S	
Frame	: 254/6JP	Cooling method	: IC01 - ODP	
Insulation class	: F	Mounting	: W-6	
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>	: 193 lb	
Design	: B	Moment of inertia (J)	: 0.9155 sq.ft.lb	
Output [HP]	25	25	25	
Poles	2	2	2	
Frequency [Hz]	60	50	50	
Rated voltage [V]	230/460	190/380	220/415	
Rated current [A]	58.2/29.1	70.6/35.3	64.1/34.0	
L. R. Amperes [A]	367/183	374/187	378/201	
LRC [A]	6.3x(Code G)	5.3x(Code E)	5.9x(Code F)	
No load current [A]	22.8/11.4	22.3/11.2	24.0/12.7	
Rated speed [RPM]	3530	2905	2910	
Slip [%]	1.94	3.17	3.00	
Rated torque [ft.lb]	37.2	45.2	45.1	
Locked rotor torque [%]	180	150	170	
Breakdown torque [%]	290	220	240	
Service factor	1.15	1.15	1.15	
Temperature rise	80 K	80 K	80 K	
Locked rotor time	16s (cold) 9s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)	
Noise level <sup>2</sup>	70.0 dB(A)	68.0 dB(A)	68.0 dB(A)	
Efficiency (%)	25%	90.8	91.9	
	50%	91.0	90.9	
	75%	91.7	90.6	
	100%	91.7	89.3	
Power Factor	25%	0.46	0.48	
	50%	0.73	0.75	
	75%	0.83	0.85	
	100%	0.87	0.88	
Bearing type	: <u>Drive end</u> 6309 Z C3 <u>Non drive end</u> 6208 Z C3	Foundation loads		
Sealing	: Without Without Bearing Seal Bearing Seal	Max. traction	: 423 lb	
Lubrication interval	: 15797 h 20000 h	Max. compression	: 616 lb	
Lubricant amount	: 13 g 8 g			
Lubricant type	: Mobil Polyrex EM			
Notes USABLE @208V 64.3A SF 1.00 SFA 64.3A				
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	14/04/2022		1 /	

# TORQUE AND CURRENT VS SPEED CURVE

## Three Phase Induction Motor - Squirrel Cage



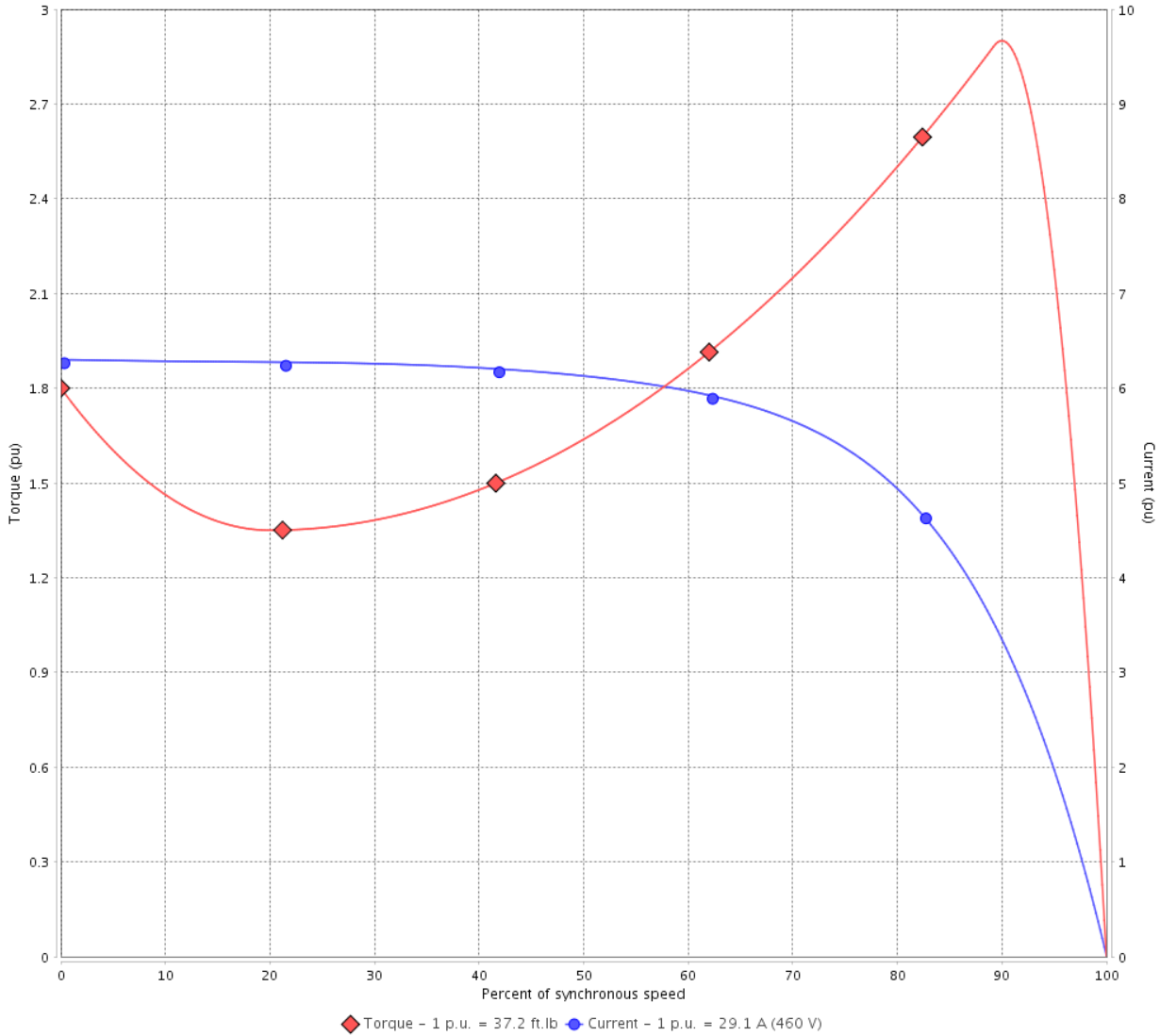
Customer :

Product line : JP Pump NEMA Premium  
Efficiency Three-Phase

Product code : 13483001

Catalog # : 02536OT3E256JPV-S

TORQUE AND CURRENT VS SPEED CURVE



Performance : 230/460 V 60 Hz 2P

Rated current	: 58.2/29.1 A	Moment of inertia (J)	: 0.9155 sq.ft.lb
LRC	: 6.3	Duty cycle	: Cont.(S1)
Rated torque	: 37.2 ft.lb	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.15
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 3530 rpm	Design	: B

Locked rotor time : 16s (cold) 9s (hot)

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page		Revision
Checked by		2 /		
Date	14/04/2022			

# TORQUE AND CURRENT VS SPEED CURVE



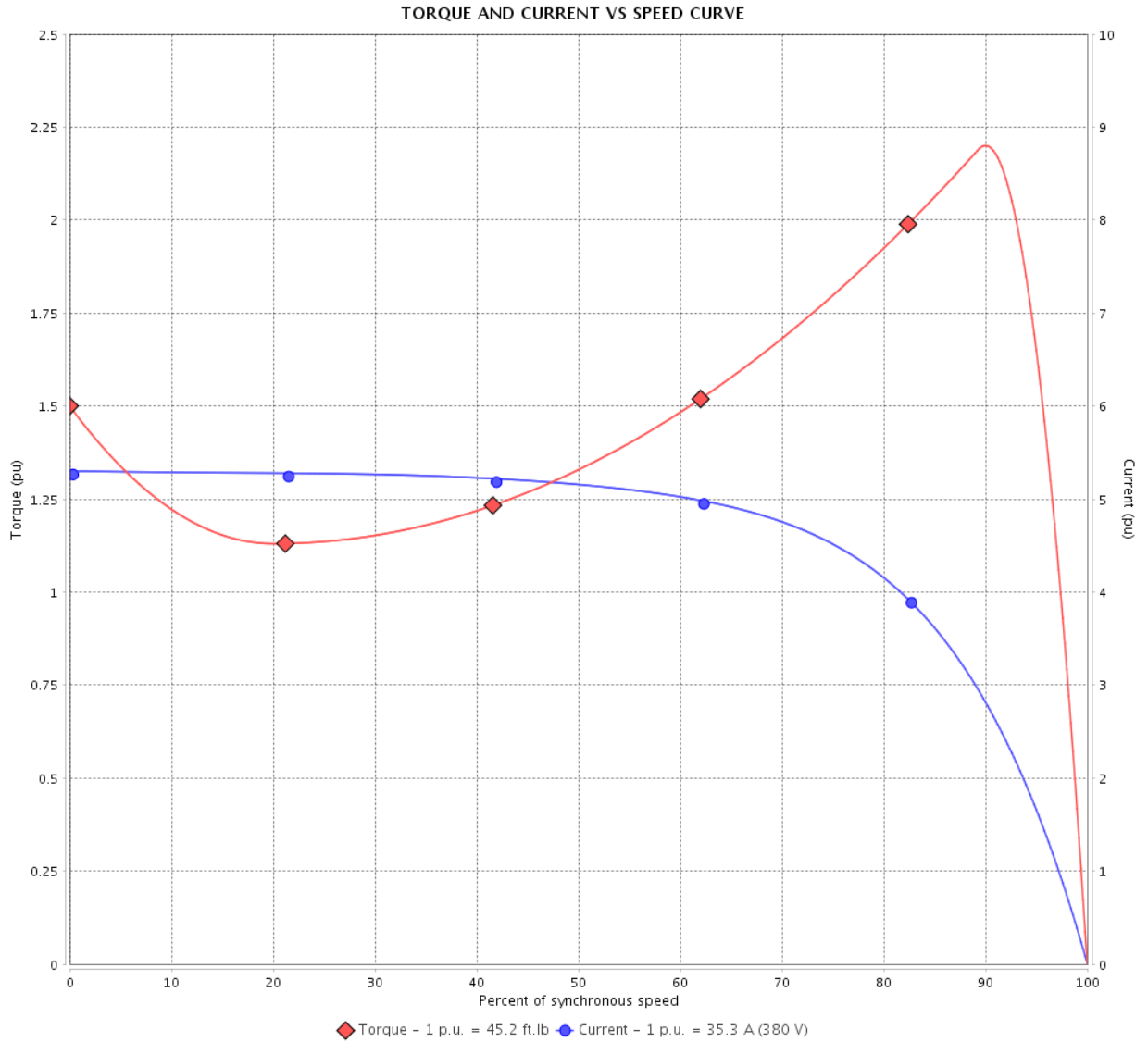
## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : JP Pump NEMA Premium Efficiency Three-Phase

Product code : 13483001

Catalog # : 02536OT3E256JPV-S



Performance : 190/380 V 50 Hz 2P

Rated current : 70.6/35.3 A  
 LRC : 5.3  
 Rated torque : 45.2 ft.lb  
 Locked rotor torque : 150 %  
 Breakdown torque : 220 %  
 Rated speed : 2905 rpm

Moment of inertia (J) : 0.9155 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

Locked rotor time : 0s (cold) 0s (hot)

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 3 /	Revision
Checked by				
Date	14/04/2022			

# TORQUE AND CURRENT VS SPEED CURVE

## Three Phase Induction Motor - Squirrel Cage



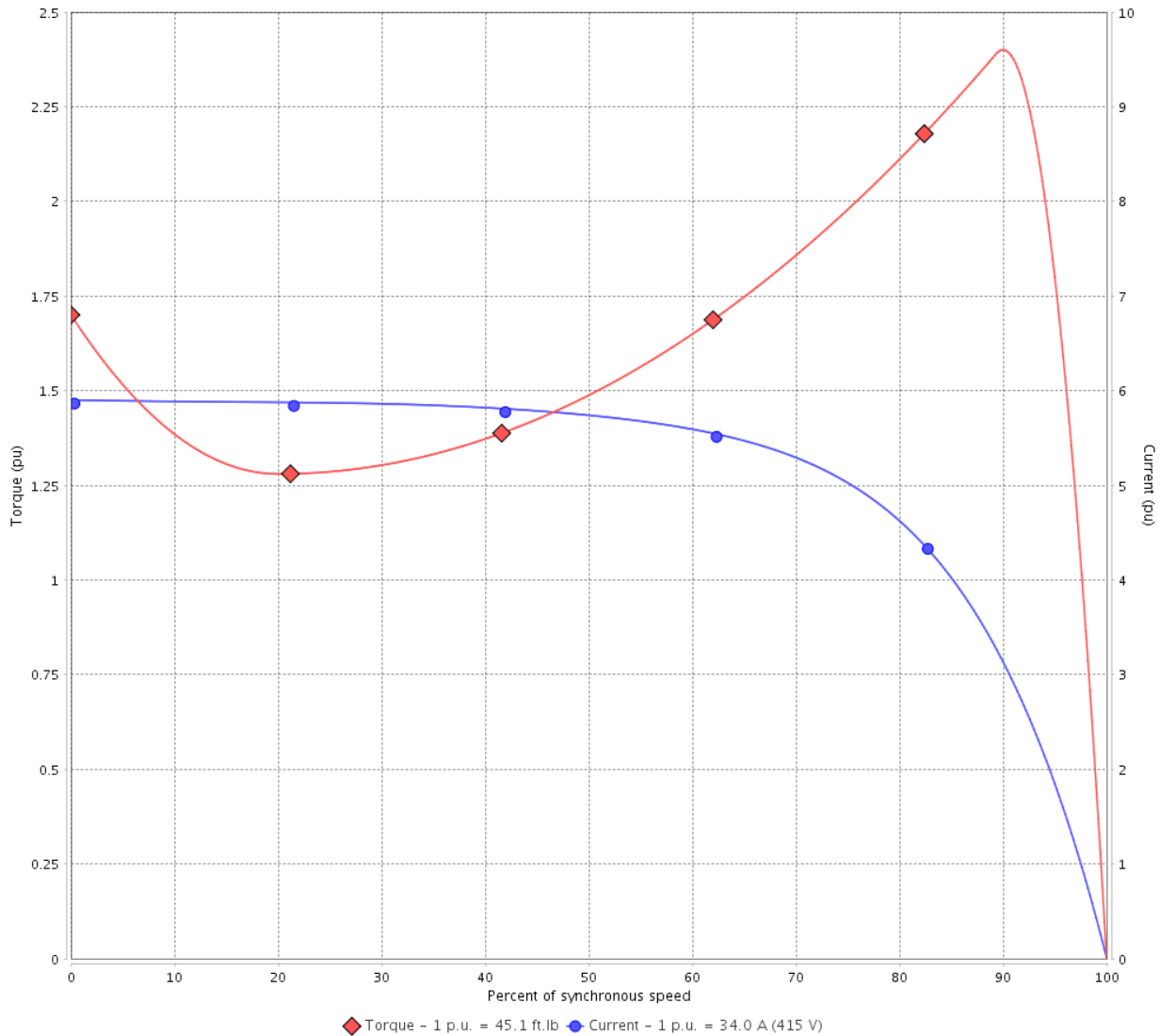
Customer :

Product line : JP Pump NEMA Premium  
Efficiency Three-Phase

Product code : 13483001

Catalog # : 02536OT3E256JPV-S

TORQUE AND CURRENT VS SPEED CURVE



Performance : 220/415 V 50 Hz 2P

Rated current : 64.1/34.0 A  
LRC : 5.9  
Rated torque : 45.1 ft.lb  
Locked rotor torque : 170 %  
Breakdown torque : 240 %  
Rated speed : 2910 rpm

Moment of inertia (J) : 0.9155 sq.ft.lb  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.15  
Temperature rise : 80 K  
Design : B

Locked rotor time : 0s (cold) 0s (hot)

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 4 /	Revision
Checked by				
Date	14/04/2022			

# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

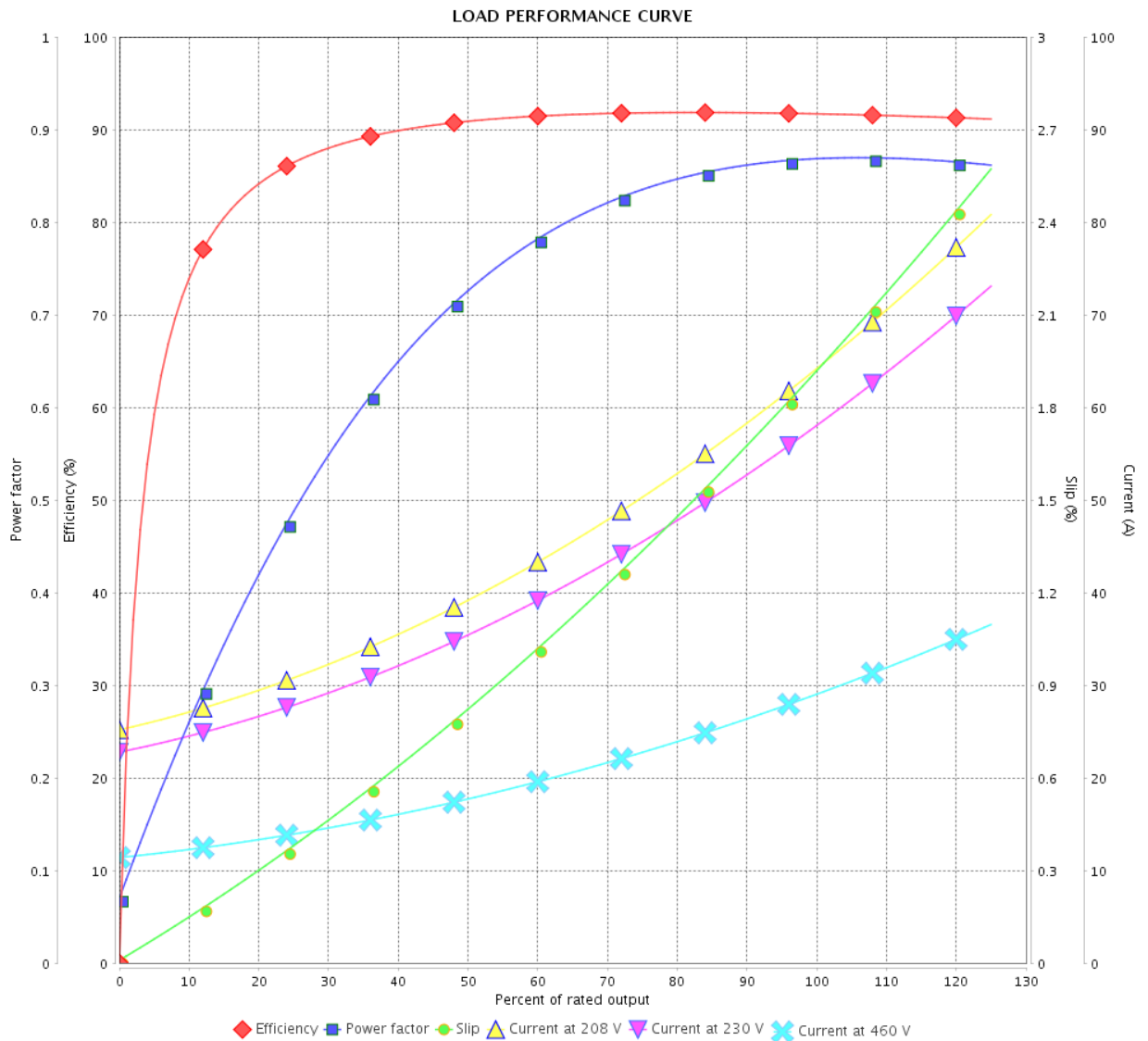


Customer :

Product line : JP Pump NEMA Premium  
Efficiency Three-Phase

Product code : 13483001

Catalog # : 02536OT3E256JPV-S



Performance : 230/460 V 60 Hz 2P

Rated current : 58.2/29.1 A  
 LRC : 6.3  
 Rated torque : 37.2 ft.lb  
 Locked rotor torque : 180 %  
 Breakdown torque : 290 %  
 Rated speed : 3530 rpm

Moment of inertia (J) : 0.9155 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		5 /		
Date		14/04/2022		

# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



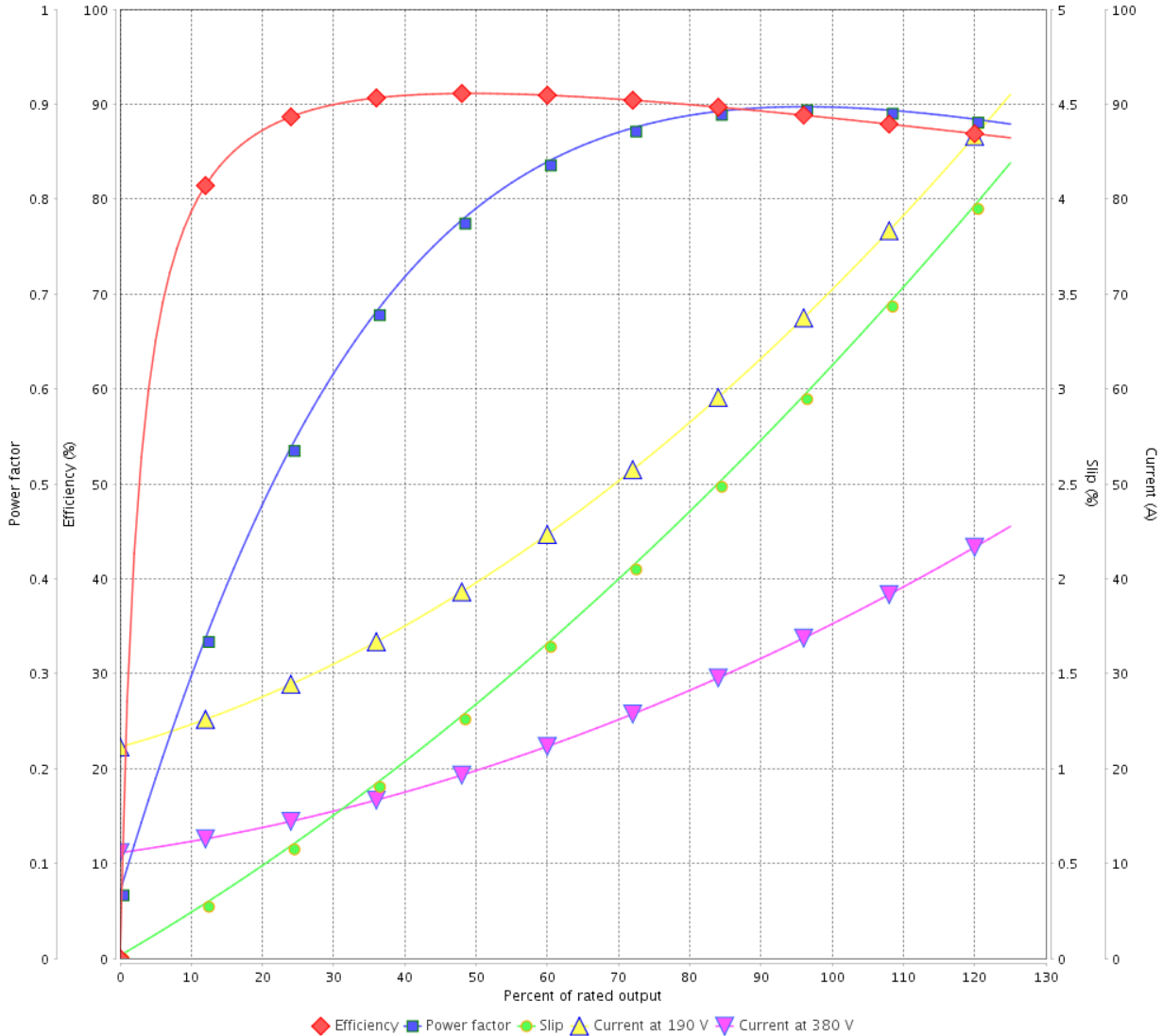
Customer :

Product line : JP Pump NEMA Premium  
Efficiency Three-Phase

Product code : 13483001

Catalog # : 02536OT3E256JPV-S

LOAD PERFORMANCE CURVE



Performance : 190/380 V 50 Hz 2P

Rated current : 70.6/35.3 A  
LRC : 5.3  
Rated torque : 45.2 ft.lb  
Locked rotor torque : 150 %  
Breakdown torque : 220 %  
Rated speed : 2905 rpm

Moment of inertia (J) : 0.9155 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				
Date				
			6 /	

# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

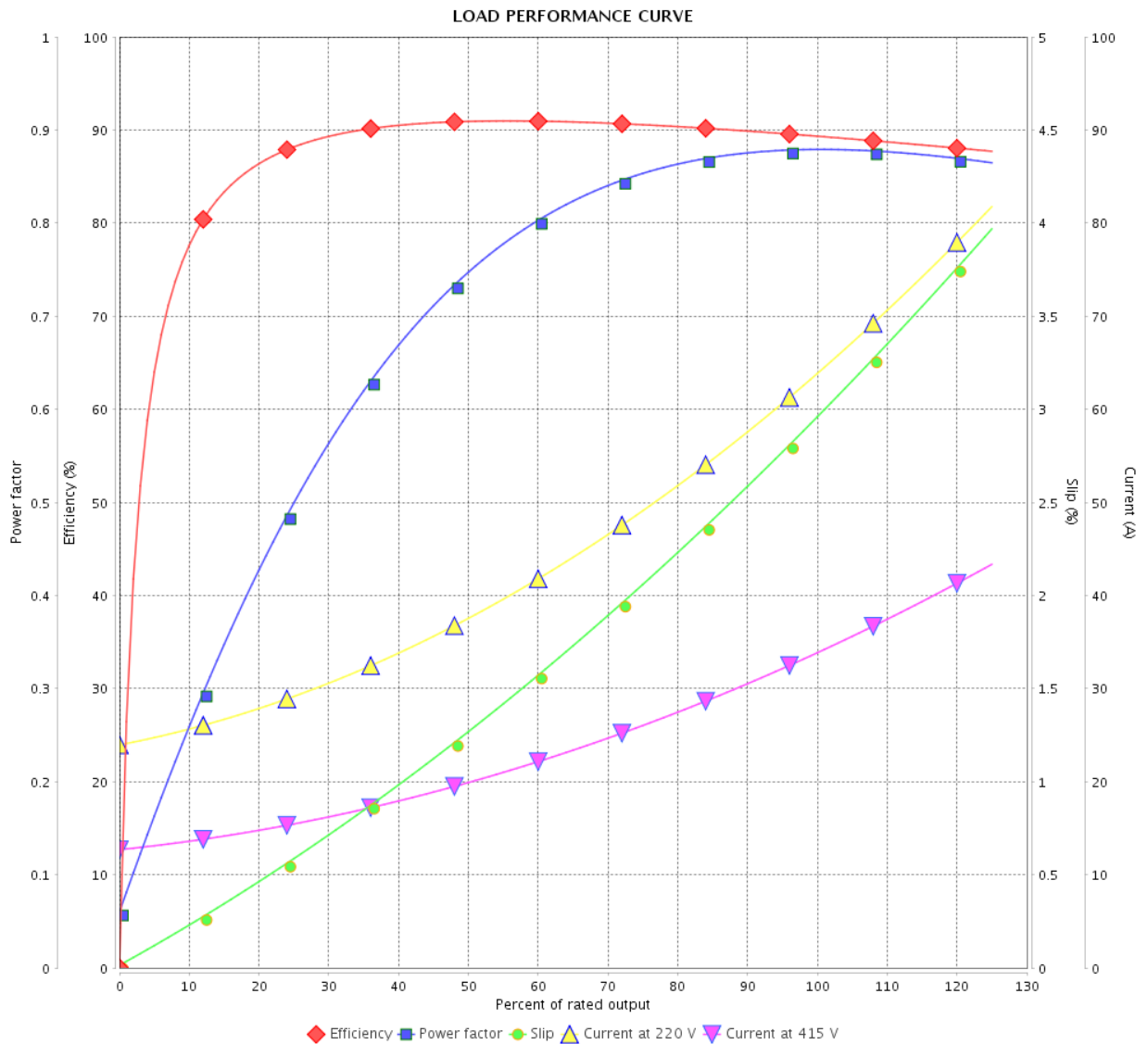


Customer : \_\_\_\_\_

Product line : JP Pump NEMA Premium Efficiency Three-Phase

Product code : 13483001

Catalog # : 02536OT3E256JPV-S



Performance : 220/415 V 50 Hz 2P

Rated current : 64.1/34.0 A  
 LRC : 5.9  
 Rated torque : 45.1 ft.lb  
 Locked rotor torque : 170 %  
 Breakdown torque : 240 %  
 Rated speed : 2910 rpm

Moment of inertia (J) : 0.9155 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		7 /		
Date		14/04/2022		

# THERMAL LIMIT CURVE



## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : JP Pump NEMA Premium  
Efficiency Three-Phase

Product code : 13483001

Catalog # : 02536OT3E256JPV-S

Performance : 230/460 V 60 Hz 2P

Rated current : 58.2/29.1 A  
LRC : 6.3  
Rated torque : 37.2 ft.lb  
Locked rotor torque : 180 %  
Breakdown torque : 290 %  
Rated speed : 3530 rpm

Moment of inertia (J) : 0.9155 sq.ft.lb  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.15  
Temperature rise : 80 K  
Design : B

Heating constant

Cooling constant

Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	14/04/2022		8 /	

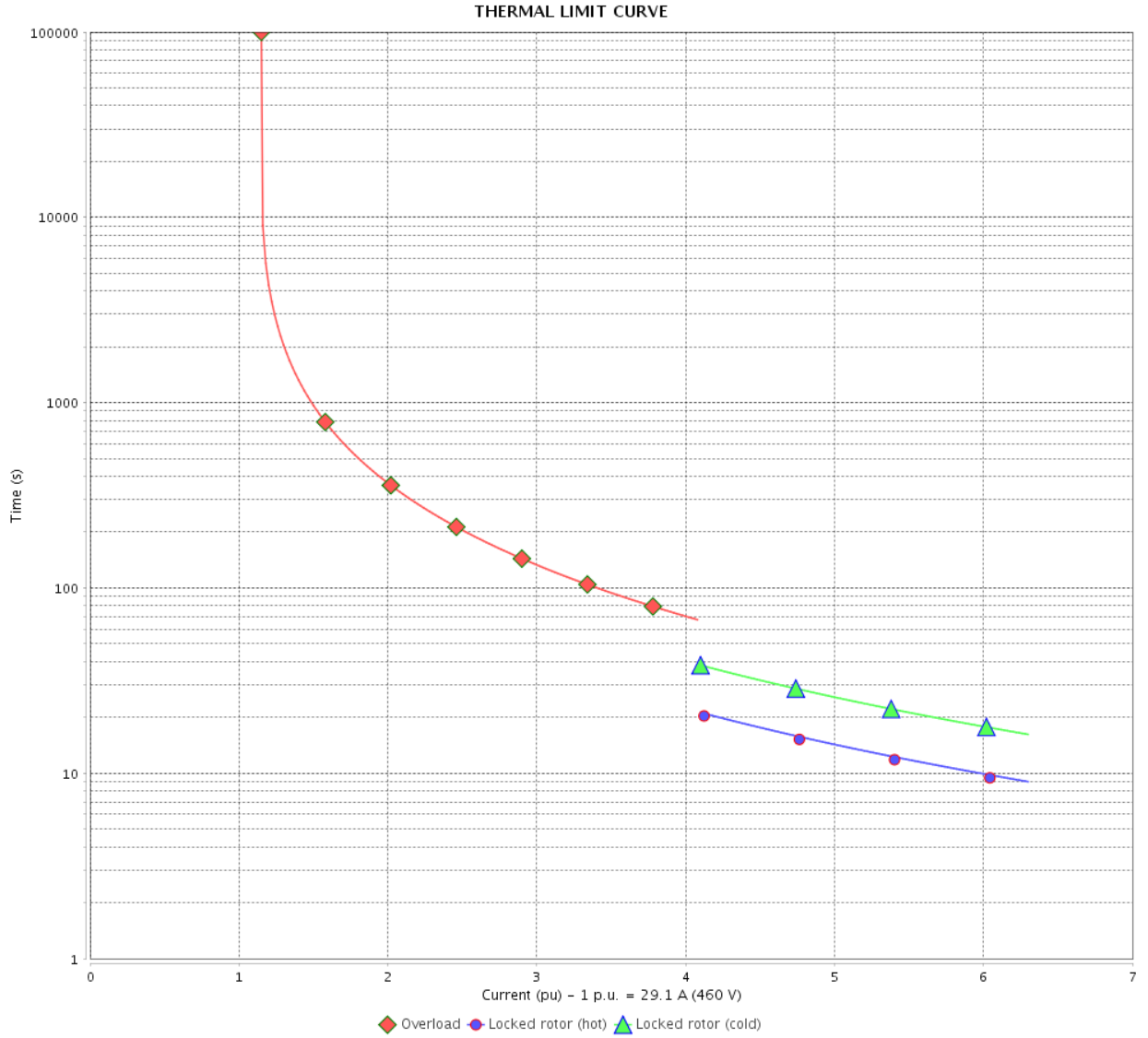


# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



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



Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 9 /		Revision
Checked by				
Date				

# THERMAL LIMIT CURVE



## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : JP Pump NEMA Premium  
Efficiency Three-Phase

Product code : 13483001

Catalog # : 02536OT3E256JPV-S

Performance : 190/380 V 50 Hz 2P

Rated current : 70.6/35.3 A  
LRC : 5.3  
Rated torque : 45.2 ft.lb  
Locked rotor torque : 150 %  
Breakdown torque : 220 %  
Rated speed : 2905 rpm

Moment of inertia (J) : 0.9155 sq.ft.lb  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.15  
Temperature rise : 80 K  
Design : B

Heating constant

Cooling constant

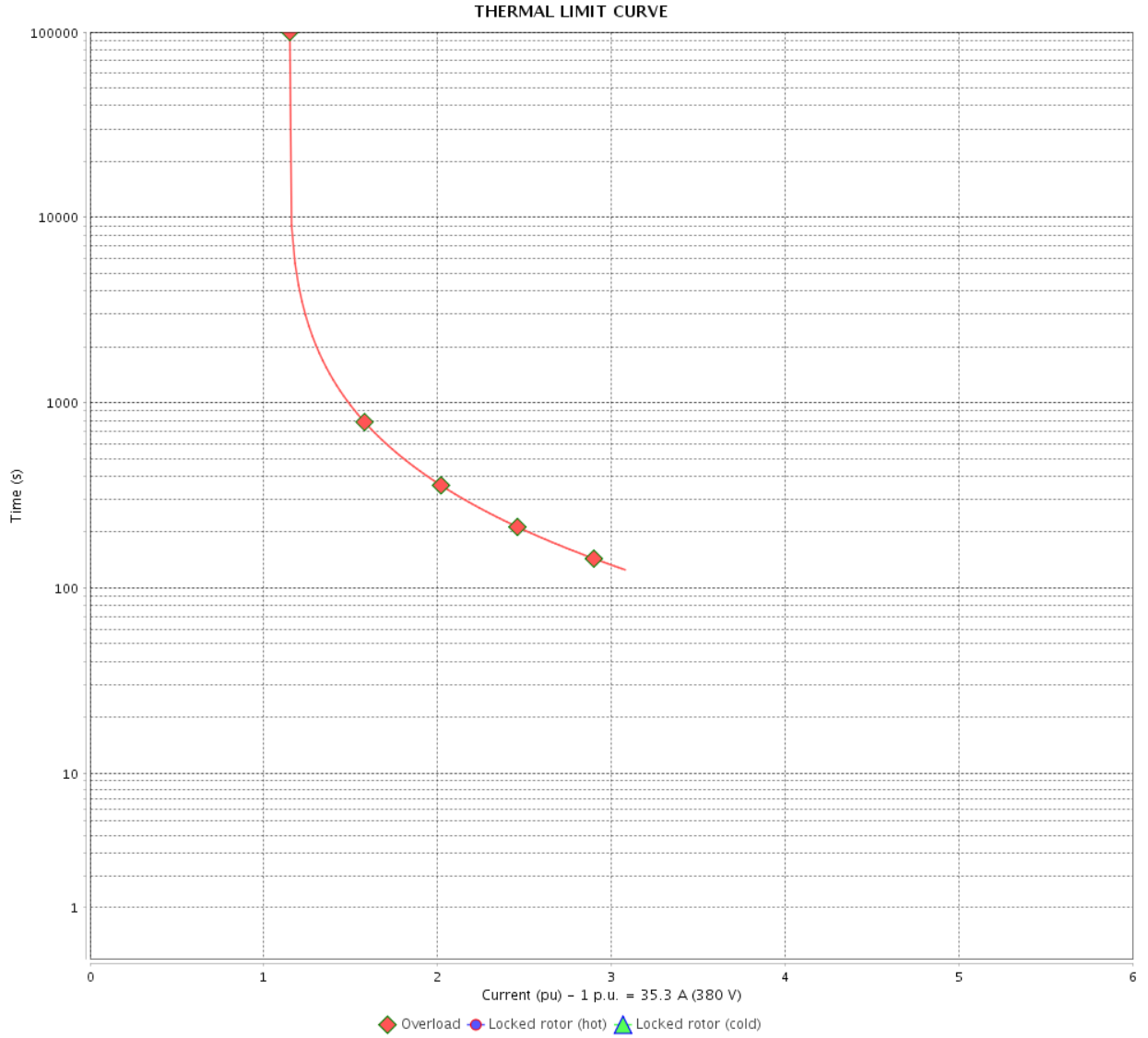
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	14/04/2022		10 /	

# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



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



Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page		Revision
Checked by		11 /		
Date		14/04/2022		

# THERMAL LIMIT CURVE



## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : JP Pump NEMA Premium  
Efficiency Three-Phase

Product code : 13483001

Catalog # : 02536OT3E256JPV-S

Performance : 220/415 V 50 Hz 2P

Rated current : 64.1/34.0 A  
LRC : 5.9  
Rated torque : 45.1 ft.lb  
Locked rotor torque : 170 %  
Breakdown torque : 240 %  
Rated speed : 2910 rpm

Moment of inertia (J) : 0.9155 sq.ft.lb  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.15  
Temperature rise : 80 K  
Design : B

Heating constant

Cooling constant

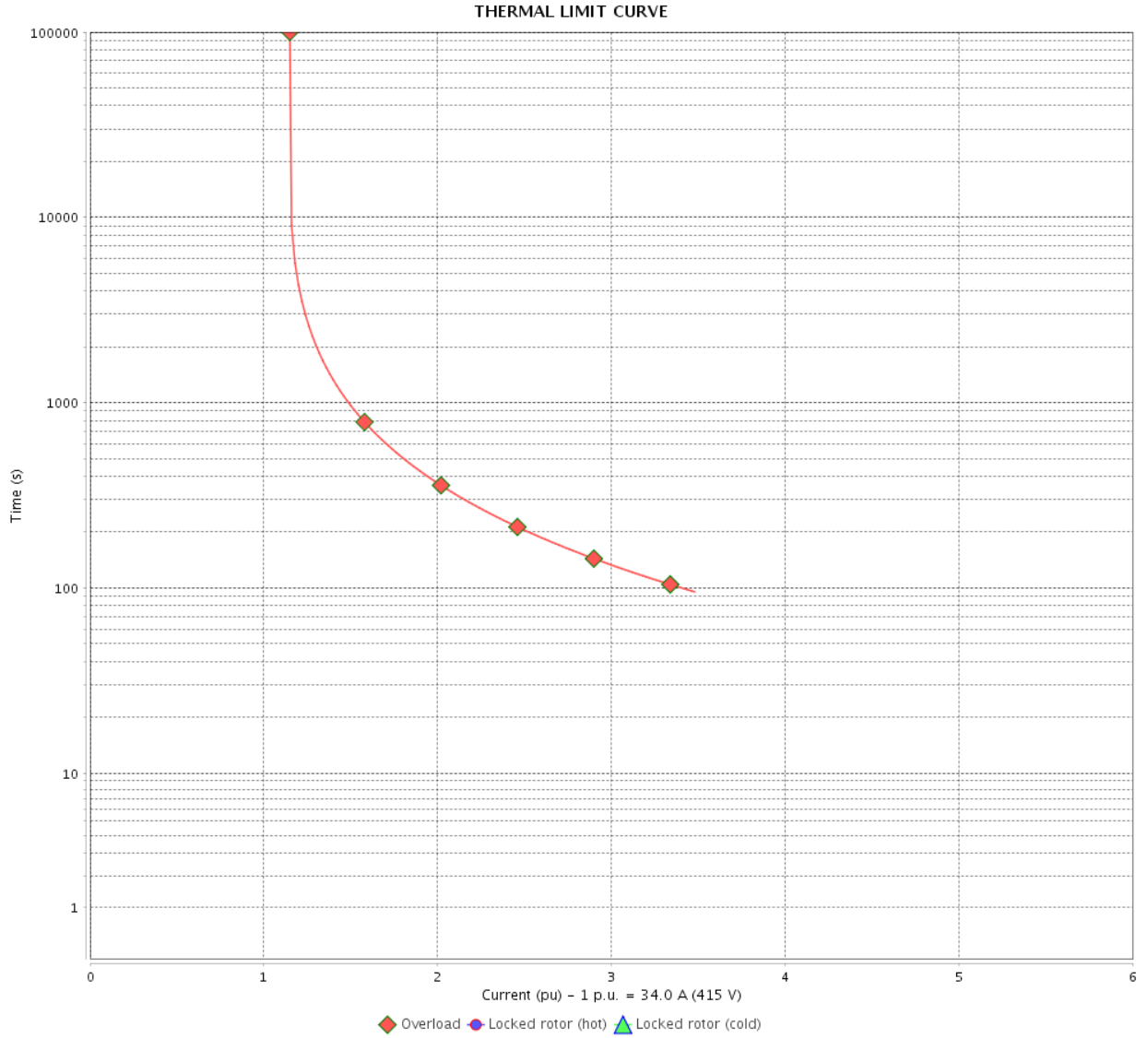
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	14/04/2022		12 /	

# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



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



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

# VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

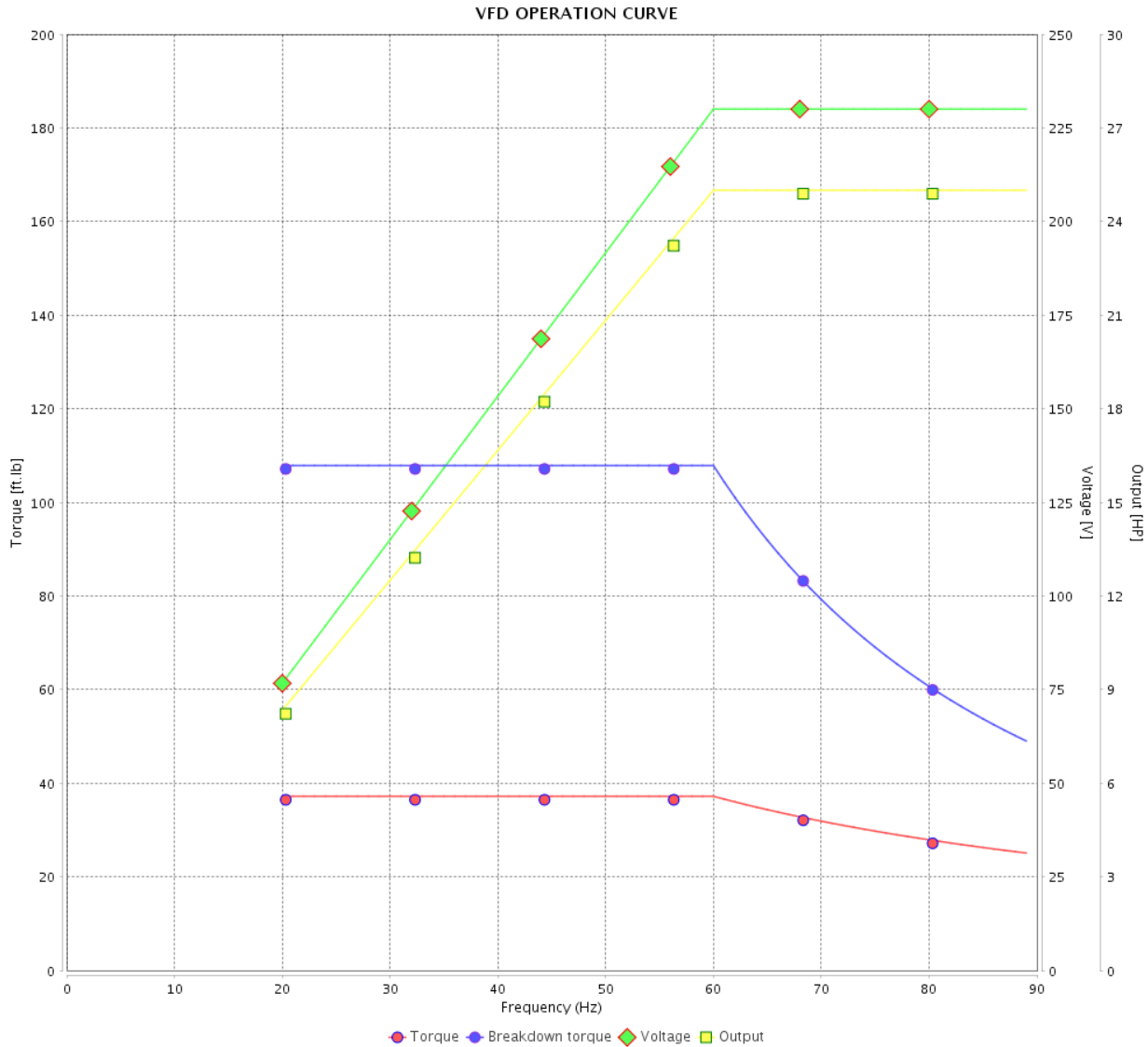


Customer :

Product line : JP Pump NEMA Premium Efficiency Three-Phase

Product code : 13483001

Catalog # : 02536OT3E256JPV-S



Performance : 230/460 V 60 Hz 2P

Rated current : 58.2/29.1 A  
 LRC : 6.3  
 Rated torque : 37.2 ft.lb  
 Locked rotor torque : 180 %  
 Breakdown torque : 290 %  
 Rated speed : 3530 rpm

Moment of inertia (J) : 0.9155 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				
Date				

