

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer								
Product line	: ODP NEMA Premium Efficiency Three-Phase	Product code	: 11080922					
		Catalog #	: 02536OT3E256TC					
Frame	: 256TC	Cooling method	: IC01 - ODP					
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>	: 242 lb					
Protection degree	: IP23	Moment of inertia (J)	: 1.08 sq.ft.lb					
Design	: B							
Output [HP]	25	20	20	20	25	25	25	
Poles	2	2	2	2	2	2	2	
Frequency [Hz]	60	50	50	50	50	50	50	
Rated voltage [V]	208-230/460	380	400	415	380	400	415	
Rated current [A]	65.9-59.6/29.8	28.5	28.0	27.7	35.7	34.2	33.3	
L. R. Amperes [A]	428-387/194	188	202	216	189	202	216	
LRC [A]	6.5x(Code G)	6.6x(Code G)	7.2x(Code H)	7.8x(Code J)	5.3x(Code E)	5.9x(Code F)	6.5x(Code G)	
No load current [A]	19.0-22.0/11.0	9.90	11.3	12.6	9.90	11.3	12.6	
Rated speed [RPM]	3530	2925	2935	2940	2905	2915	2925	
Slip [%]	1.94	2.50	2.17	2.00	3.17	2.83	2.50	
Rated torque [ft.lb]	36.7	35.4	35.3	35.2	44.6	44.4	44.3	
Locked rotor torque [%]	200	200	229	250	160	180	200	
Breakdown torque [%]	260	300	340	380	240	270	300	
Service factor	1.15	1.15	1.15	1.15	1.15	1.15	1.15	
Temperature rise	80 K	80 K	80 K	80 K	80 K	80 K	80 K	
Locked rotor time	16s (cold) 9s (hot)	14s (cold) 8s (hot)	12s (cold) 7s (hot)	12s (cold) 7s (hot)	14s (cold) 8s (hot)	12s (cold) 7s (hot)	12s (cold) 7s (hot)	
Noise level <sup>2</sup>	67.0 dB(A)							
Efficiency (%)	25%	90.8	84.8	84.2	85.5	88.2	87.0	88.6
	50%	91.0	87.4	86.8	87.5	88.5	88.5	89.5
	75%	91.7	89.1	89.0	89.9	89.5	89.5	90.2
	100%	91.7	91.9	91.9	91.9	89.5	90.9	91.0
Power Factor	25%	0.47	0.49	0.44	0.39	0.55	0.50	0.45
	50%	0.73	0.72	0.68	0.63	0.78	0.74	0.70
	75%	0.82	0.82	0.79	0.75	0.86	0.83	0.80
	100%	0.85	0.87	0.84	0.82	0.88	0.86	0.85
Bearing type	: Drive end 6309 Z C3	: Non drive end 6209 Z C3	Foundation loads					
Sealing	: Without	: Without	Max. traction	: 525 lb				
	: Bearing Seal	: Bearing Seal	Max. compression	: 767 lb				
Lubrication interval	: 20000 h	: 20000 h						
Lubricant amount	: 13 g	: 9 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.				
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# TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



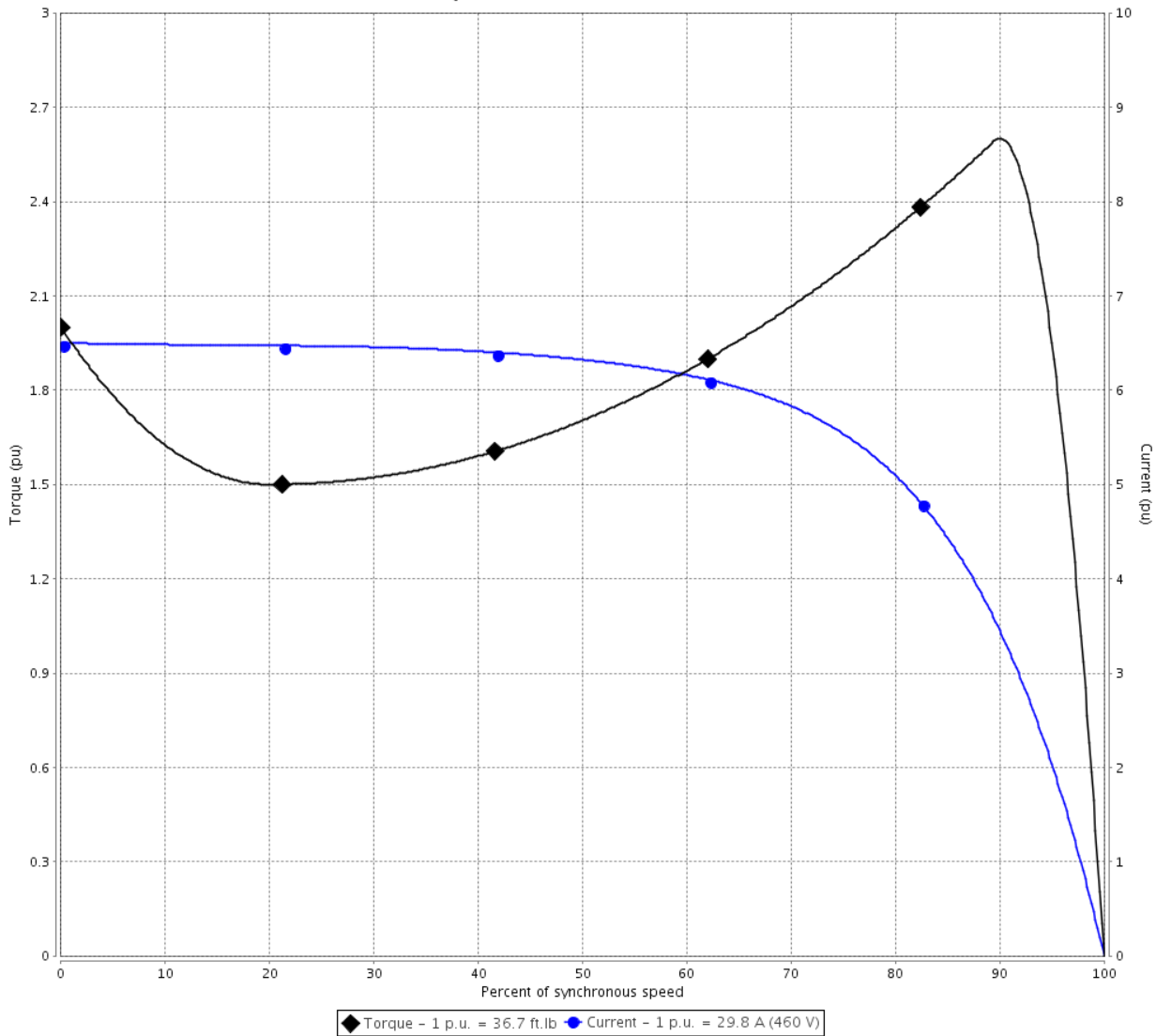
Customer :

Product line : ODP NEMA Premium Efficiency  
Three-Phase

Product code : 11080922

Catalog # : 02536OT3E256TC

TORQUE AND CURRENT VS SPEED CURVE



Performance : 208-230/460 V 60 Hz 2P

Rated current	: 65.9-59.6/29.8 A	Moment of inertia (J)	: 1.08 sq.ft.lb
LRC	: 6.5	Duty cycle	: Cont.(S1)
Rated torque	: 36.7 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 3530 rpm	Design	: B

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

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# TORQUE AND CURRENT VS SPEED CURVE



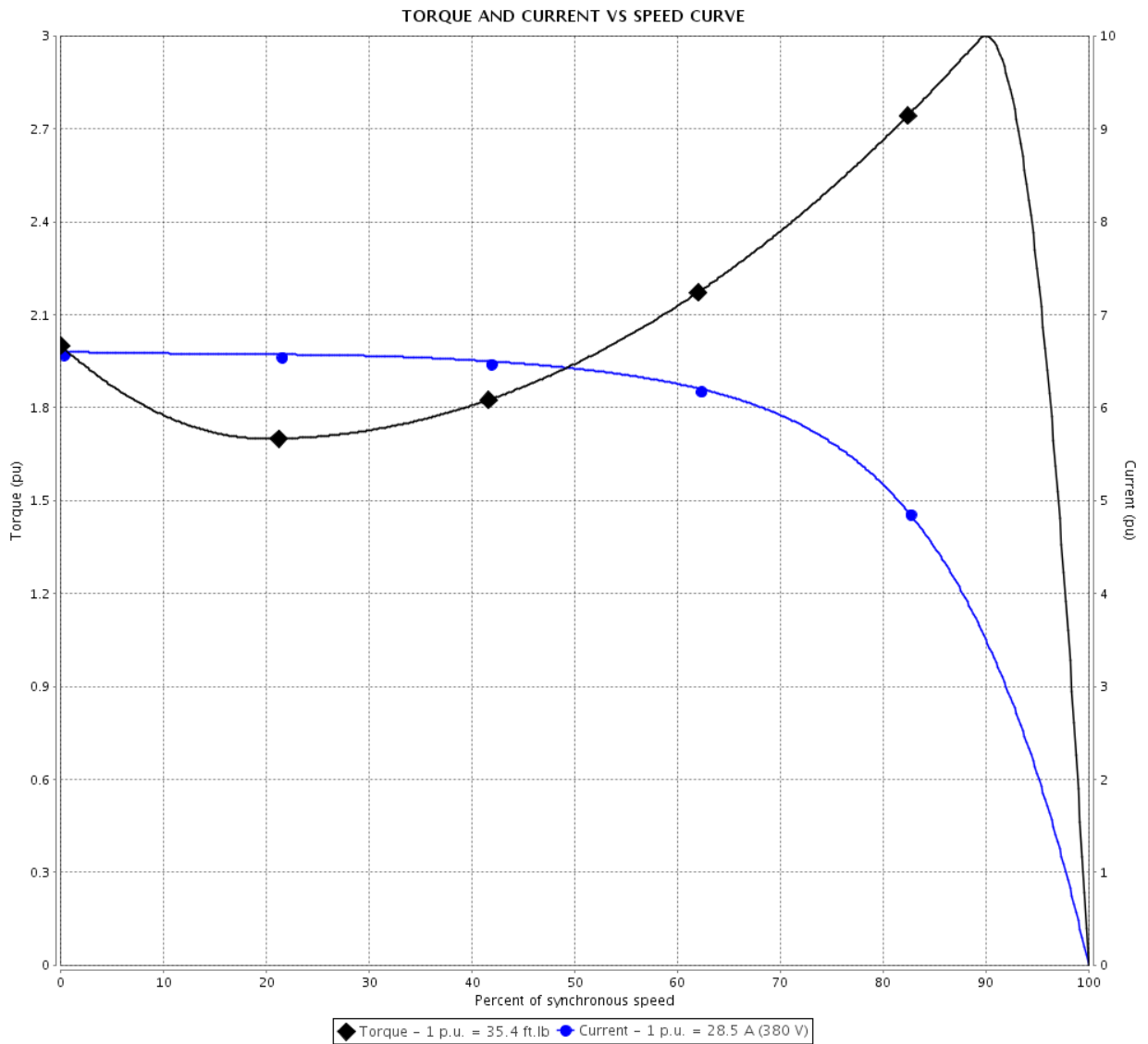
## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : ODP NEMA Premium Efficiency  
Three-Phase

Product code : 11080922

Catalog # : 02536OT3E256TC



Performance : 380 V 50 Hz 2P IE3

Rated current	: 28.5 A	Moment of inertia (J)	: 1.08 sq.ft.lb
LRC	: 6.6	Duty cycle	: Cont.(S1)
Rated torque	: 35.4 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 2925 rpm	Design	: B

Locked rotor time : 14s (cold) 8s (hot)

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# TORQUE AND CURRENT VS SPEED CURVE

## Three Phase Induction Motor - Squirrel Cage



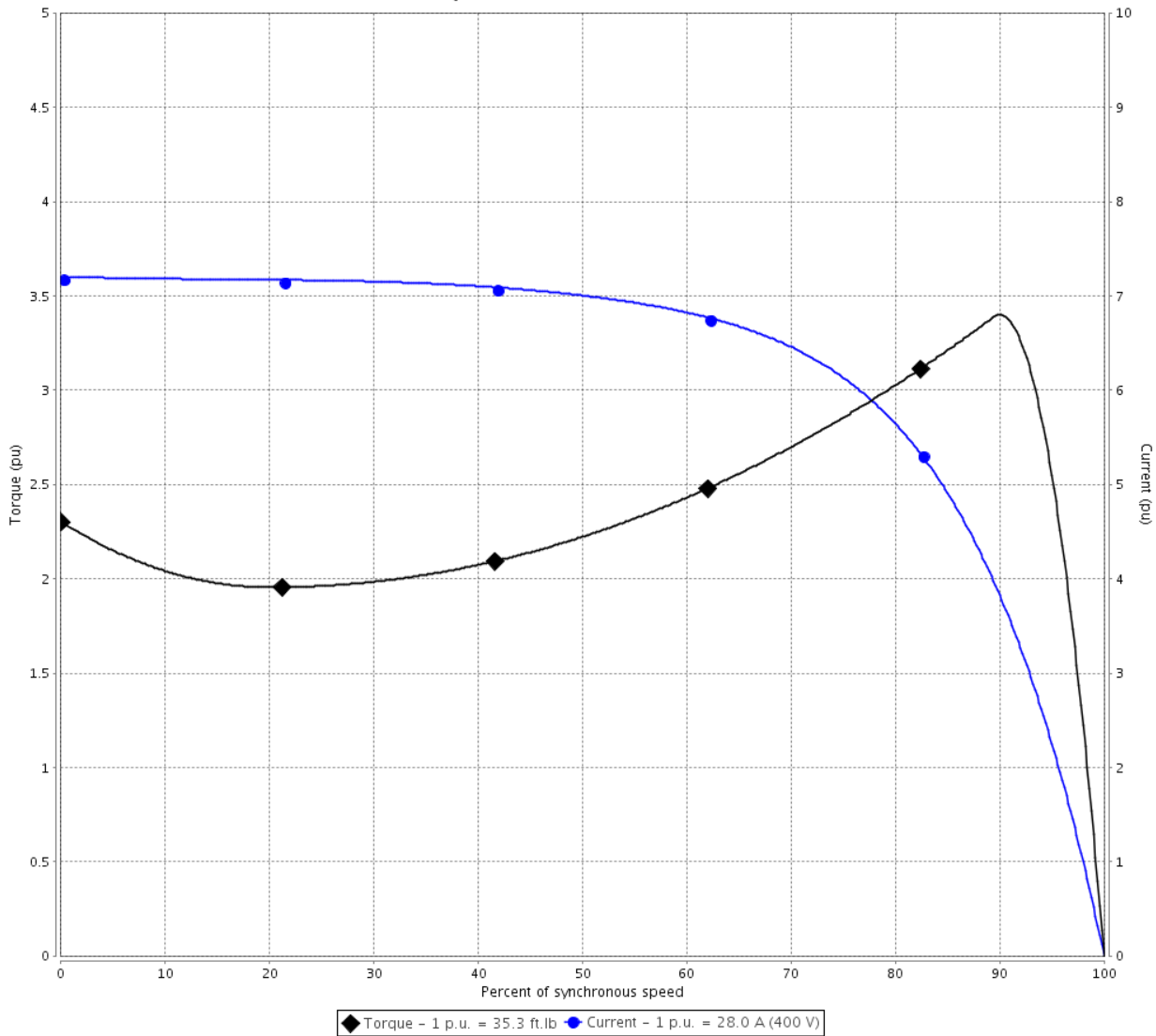
Customer :

Product line : ODP NEMA Premium Efficiency  
Three-Phase

Product code : 11080922

Catalog # : 02536OT3E256TC

TORQUE AND CURRENT VS SPEED CURVE



Performance : 400 V 50 Hz 2P IE3

Rated current	: 28.0 A	Moment of inertia (J)	: 1.08 sq.ft.lb
LRC	: 7.2	Duty cycle	: Cont.(S1)
Rated torque	: 35.3 ft.lb	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.15
Breakdown torque	: 340 %	Temperature rise	: 80 K
Rated speed	: 2935 rpm	Design	: B

Locked rotor time : 12s (cold) 7s (hot)

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# TORQUE AND CURRENT VS SPEED CURVE



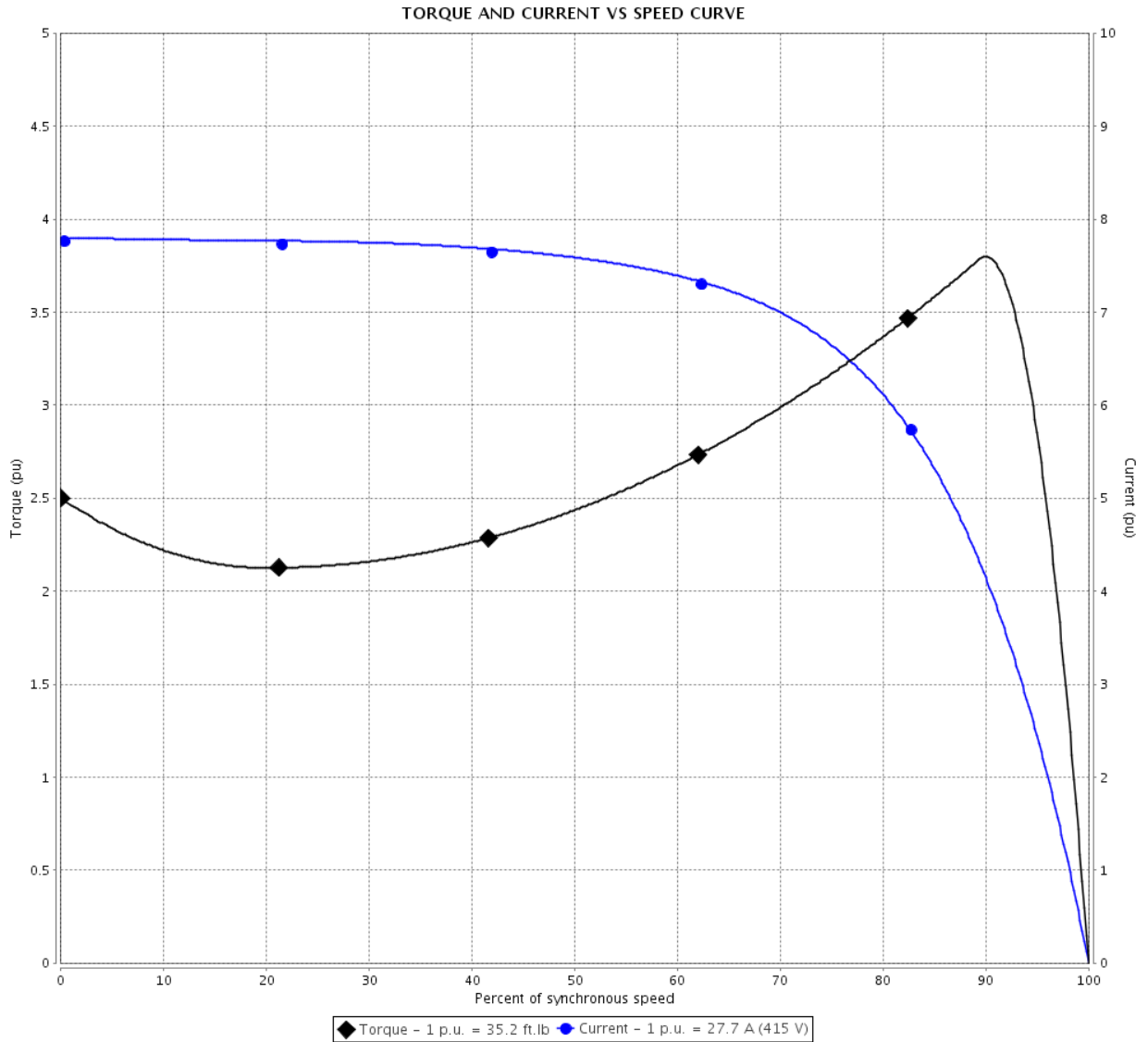
## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : ODP NEMA Premium Efficiency  
Three-Phase

Product code : 11080922

Catalog # : 02536OT3E256TC



Performance : 415 V 50 Hz 2P IE3

Rated current : 27.7 A  
LRC : 7.8  
Rated torque : 35.2 ft.lb  
Locked rotor torque : 250 %  
Breakdown torque : 380 %  
Rated speed : 2940 rpm

Moment of inertia (J) : 1.08 sq.ft.lb  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.15  
Temperature rise : 80 K  
Design : B

Locked rotor time : 12s (cold) 7s (hot)

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# TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



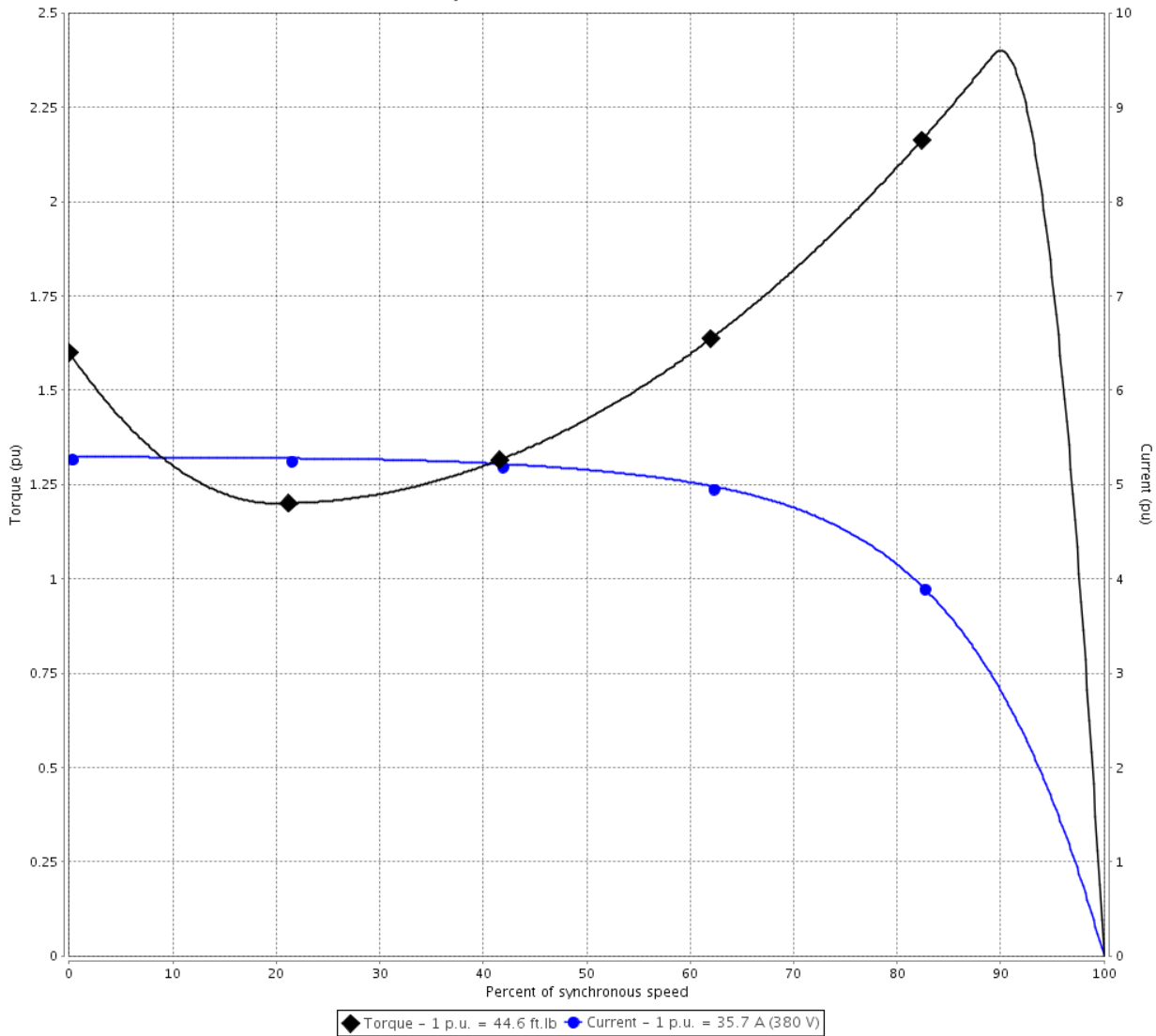
Customer :

Product line : ODP NEMA Premium Efficiency  
Three-Phase

Product code : 11080922

Catalog # : 02536OT3E256TC

TORQUE AND CURRENT VS SPEED CURVE



Performance : 380 V 50 Hz 2P IE1

Rated current	: 35.7 A	Moment of inertia (J)	: 1.08 sq.ft.lb
LRC	: 5.3	Duty cycle	: Cont.(S1)
Rated torque	: 44.6 ft.lb	Insulation class	: F
Locked rotor torque	: 160 %	Service factor	: 1.15
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 2905 rpm	Design	: B

Locked rotor time : 14s (cold) 8s (hot)

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# TORQUE AND CURRENT VS SPEED CURVE



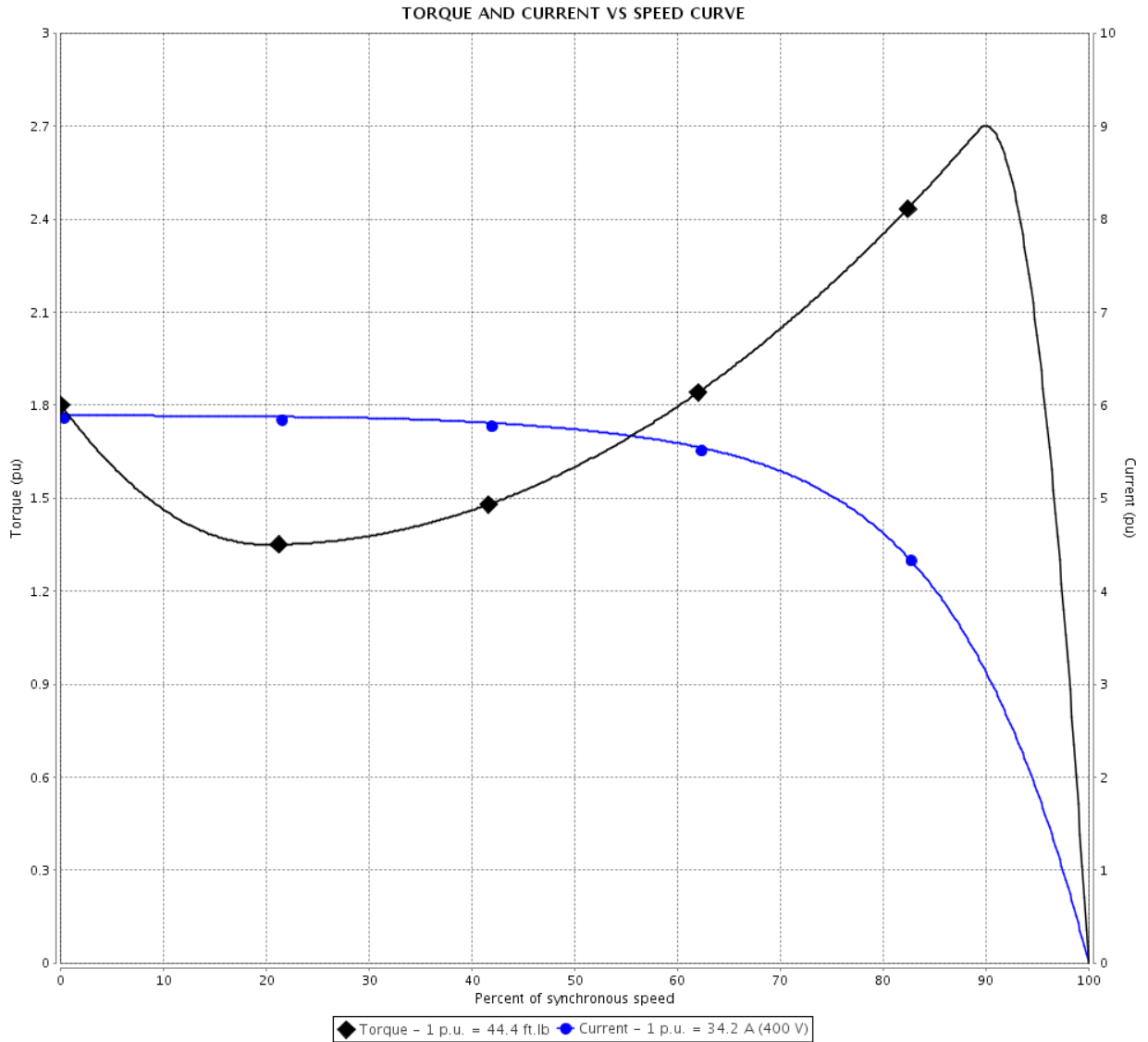
## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : ODP NEMA Premium Efficiency  
Three-Phase

Product code : 11080922

Catalog # : 02536OT3E256TC



Performance : 400 V 50 Hz 2P IE2

Rated current	: 34.2 A	Moment of inertia (J)	: 1.08 sq.ft.lb
LRC	: 5.9	Duty cycle	: Cont.(S1)
Rated torque	: 44.4 ft.lb	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.15
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 2915 rpm	Design	: B

Locked rotor time : 12s (cold) 7s (hot)

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# TORQUE AND CURRENT VS SPEED CURVE

## Three Phase Induction Motor - Squirrel Cage

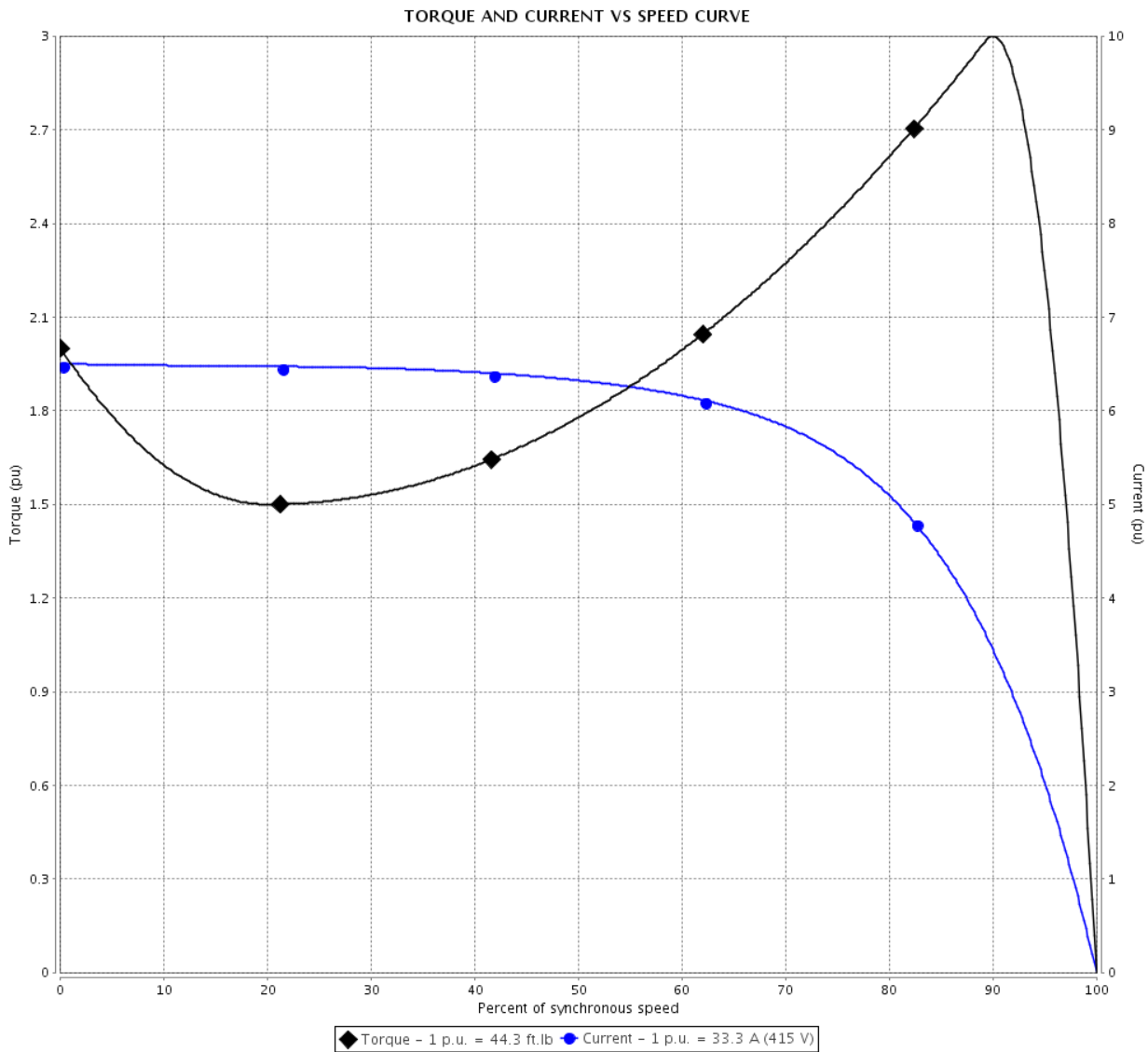


Customer :

Product line : ODP NEMA Premium Efficiency  
Three-Phase

Product code : 11080922

Catalog # : 02536OT3E256TC



Performance : 415 V 50 Hz 2P IE2

Rated current	: 33.3 A	Moment of inertia (J)	: 1.08 sq.ft.lb
LRC	: 6.5	Duty cycle	: Cont.(S1)
Rated torque	: 44.3 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 2925 rpm	Design	: B

Locked rotor time : 12s (cold) 7s (hot)

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# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

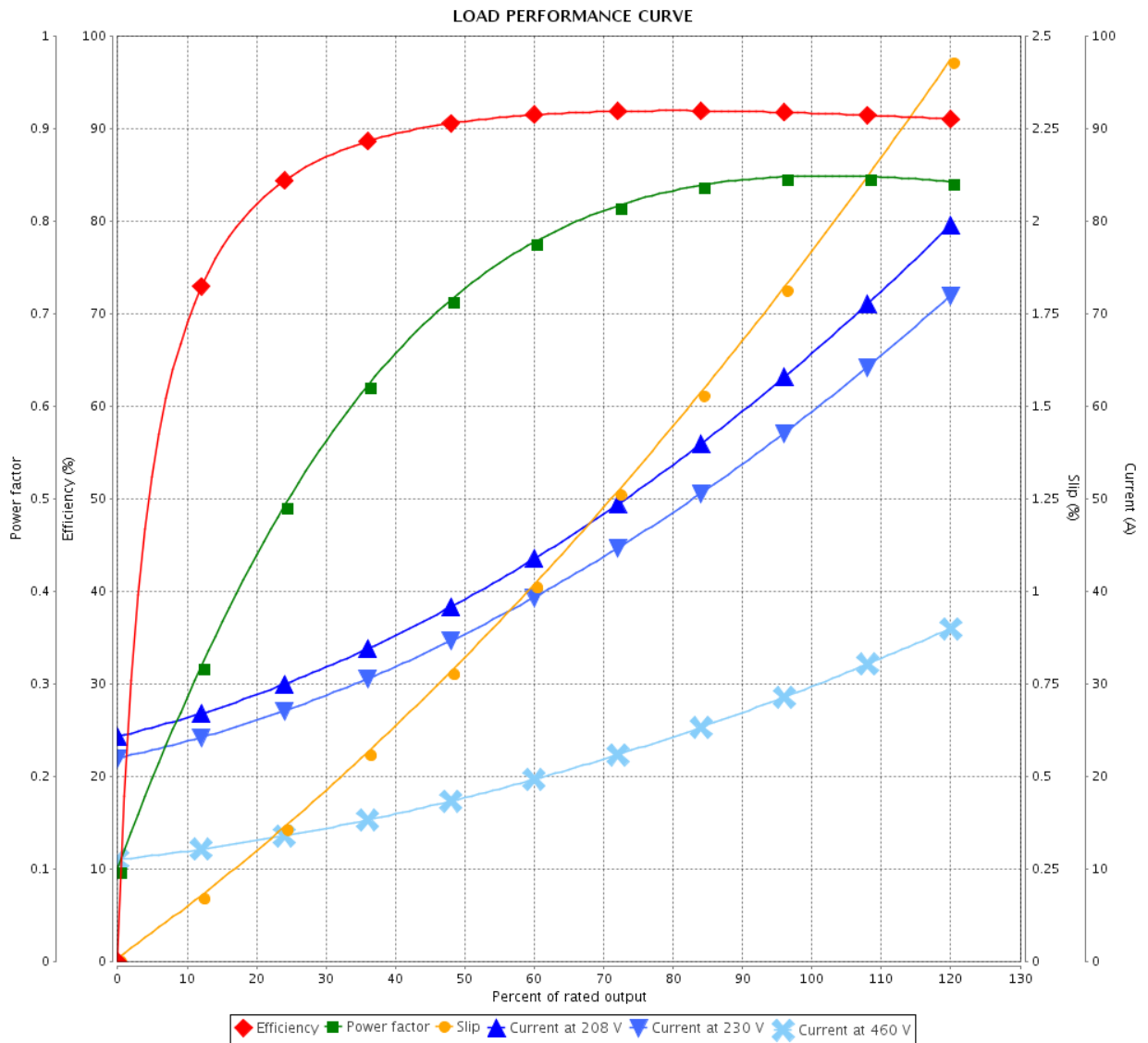


Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 11080922

Catalog # : 02536OT3E256TC



Performance : 208-230/460 V 60 Hz 2P

Rated current : 65.9-59.6/29.8 A  
 LRC : 6.5  
 Rated torque : 36.7 ft.lb  
 Locked rotor torque : 200 %  
 Breakdown torque : 260 %  
 Rated speed : 3530 rpm

Moment of inertia (J) : 1.08 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

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# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

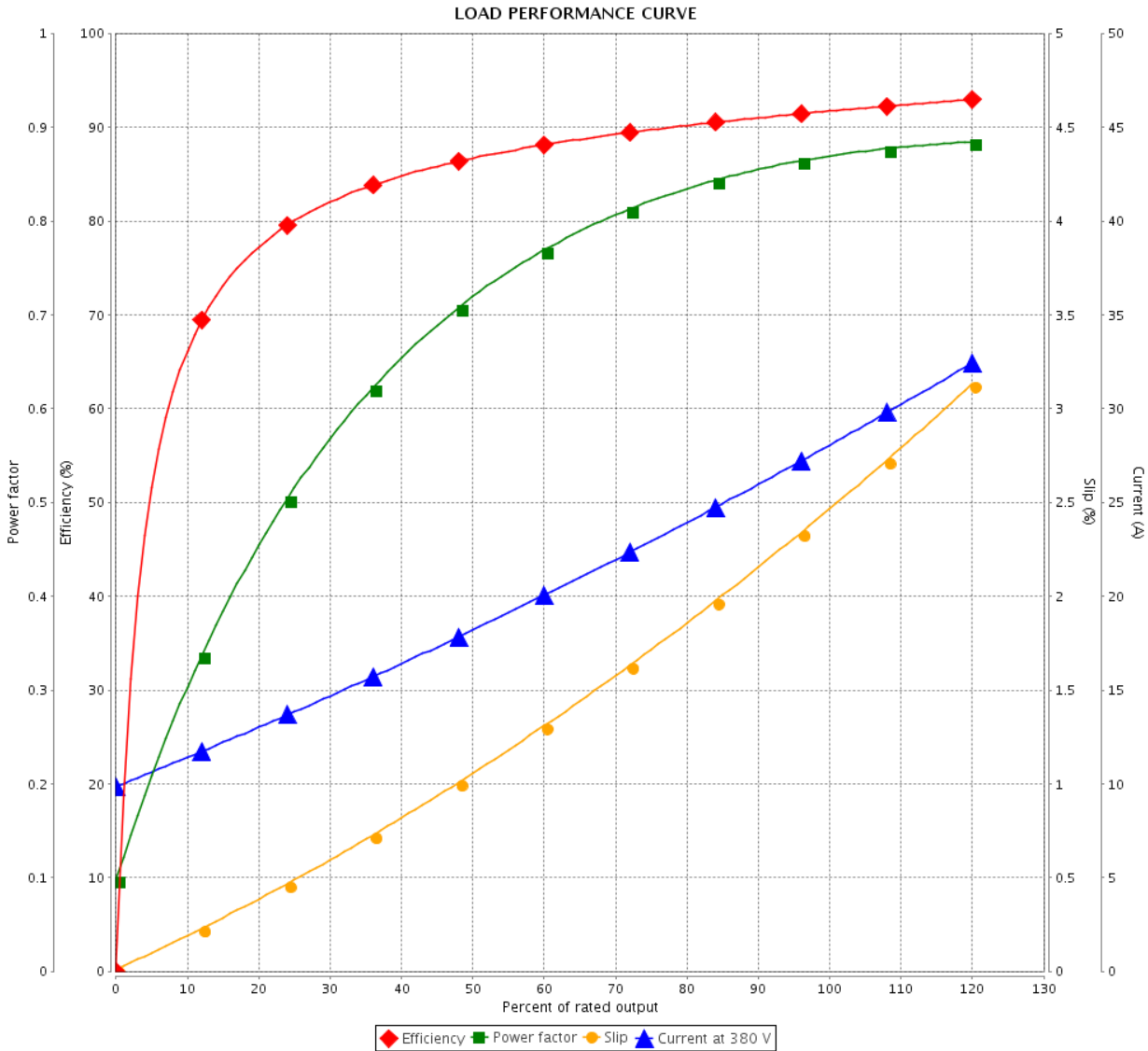


Customer :

Product line : ODP NEMA Premium Efficiency  
Three-Phase

Product code : 11080922

Catalog # : 02536OT3E256TC



Performance : 380 V 50 Hz 2P IE3

Rated current : 28.5 A  
 LRC : 6.6  
 Rated torque : 35.4 ft.lb  
 Locked rotor torque : 200 %  
 Breakdown torque : 300 %  
 Rated speed : 2925 rpm

Moment of inertia (J) : 1.08 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

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# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

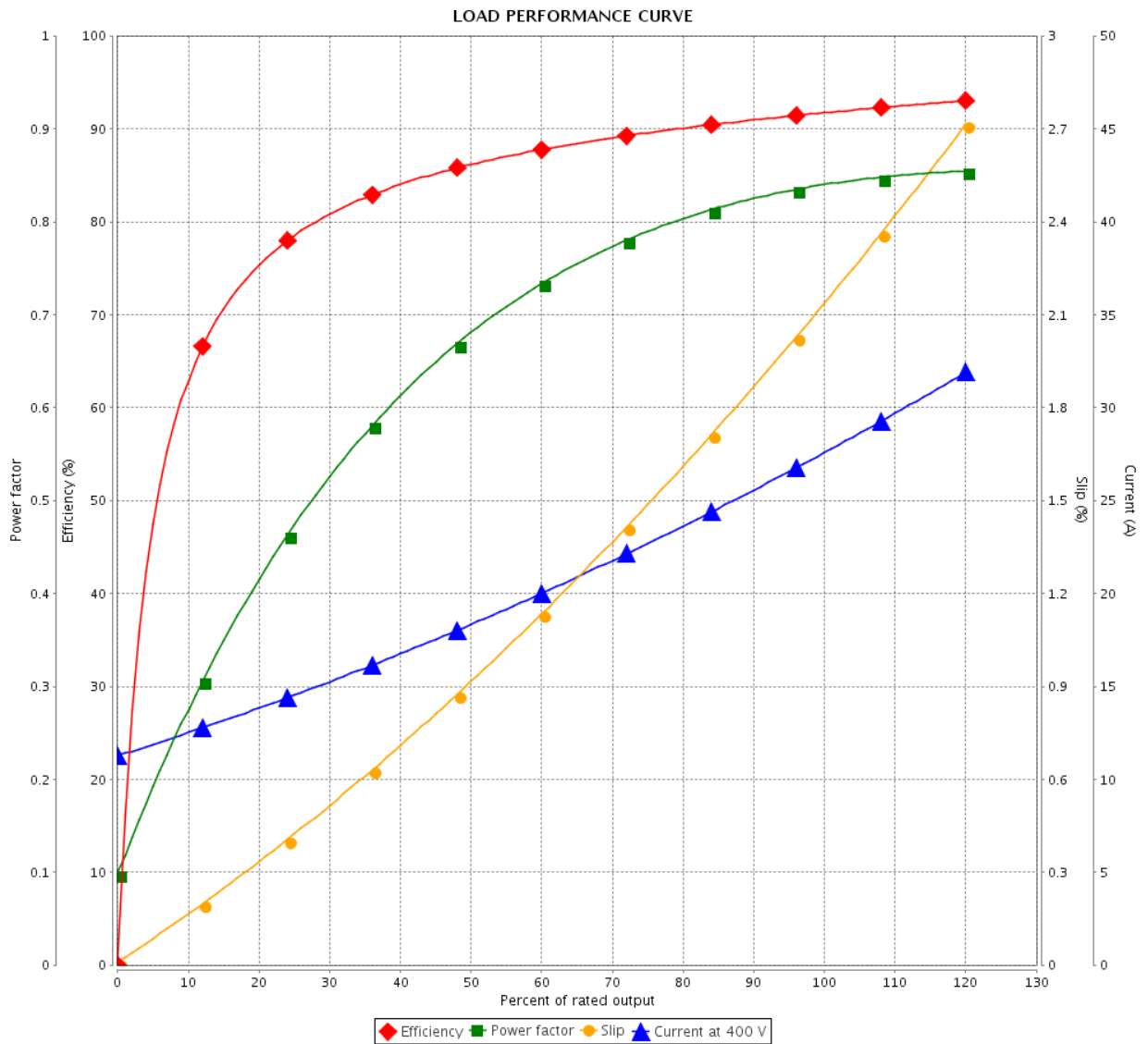


Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 11080922

Catalog # : 02536OT3E256TC



Performance : 400 V 50 Hz 2P IE3

Rated current : 28.0 A  
 LRC : 7.2  
 Rated torque : 35.3 ft.lb  
 Locked rotor torque : 229 %  
 Breakdown torque : 340 %  
 Rated speed : 2935 rpm

Moment of inertia (J) : 1.08 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

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# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

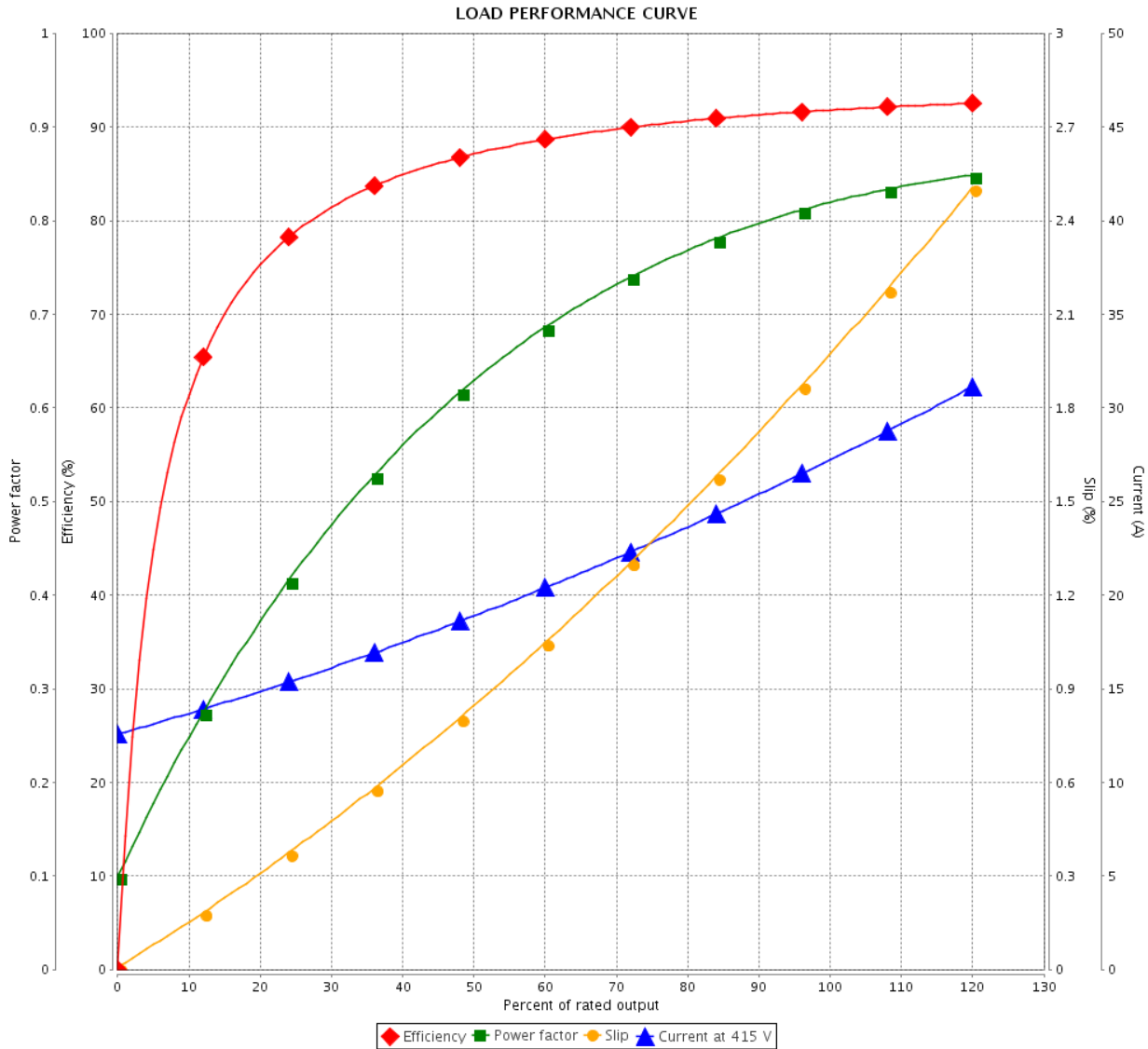


Customer : \_\_\_\_\_

Product line : ODP NEMA Premium Efficiency  
Three-Phase

Product code : 11080922

Catalog # : 02536OT3E256TC



Performance : 415 V 50 Hz 2P IE3

Rated current : 27.7 A  
 LRC : 7.8  
 Rated torque : 35.2 ft.lb  
 Locked rotor torque : 250 %  
 Breakdown torque : 380 %  
 Rated speed : 2940 rpm

Moment of inertia (J) : 1.08 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

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# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

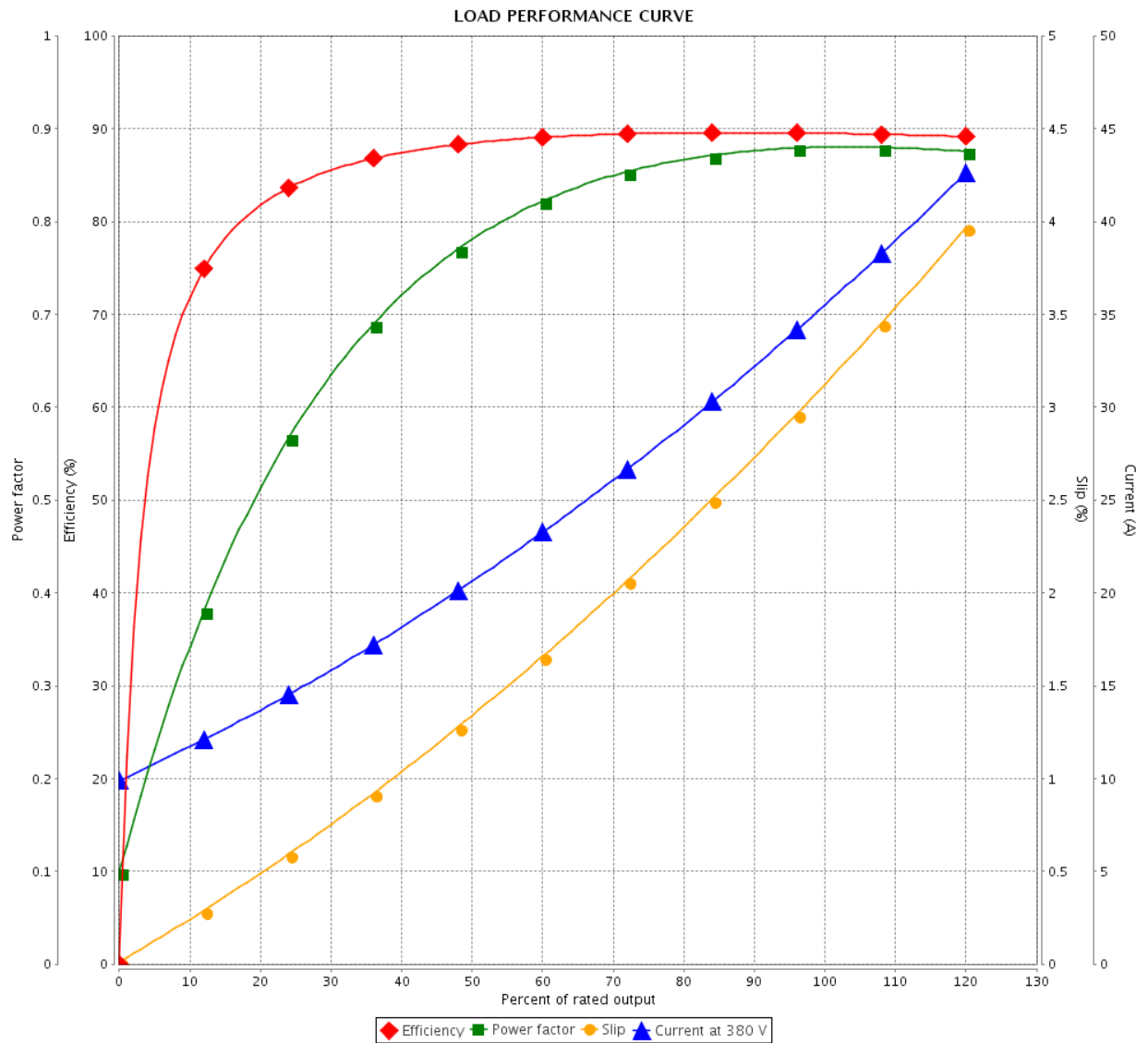


Customer :

Product line : ODP NEMA Premium Efficiency  
Three-Phase

Product code : 11080922

Catalog # : 02536OT3E256TC



Performance : 380 V 50 Hz 2P IE1

Rated current : 35.7 A  
 LRC : 5.3  
 Rated torque : 44.6 ft.lb  
 Locked rotor torque : 160 %  
 Breakdown torque : 240 %  
 Rated speed : 2905 rpm

Moment of inertia (J) : 1.08 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

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# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

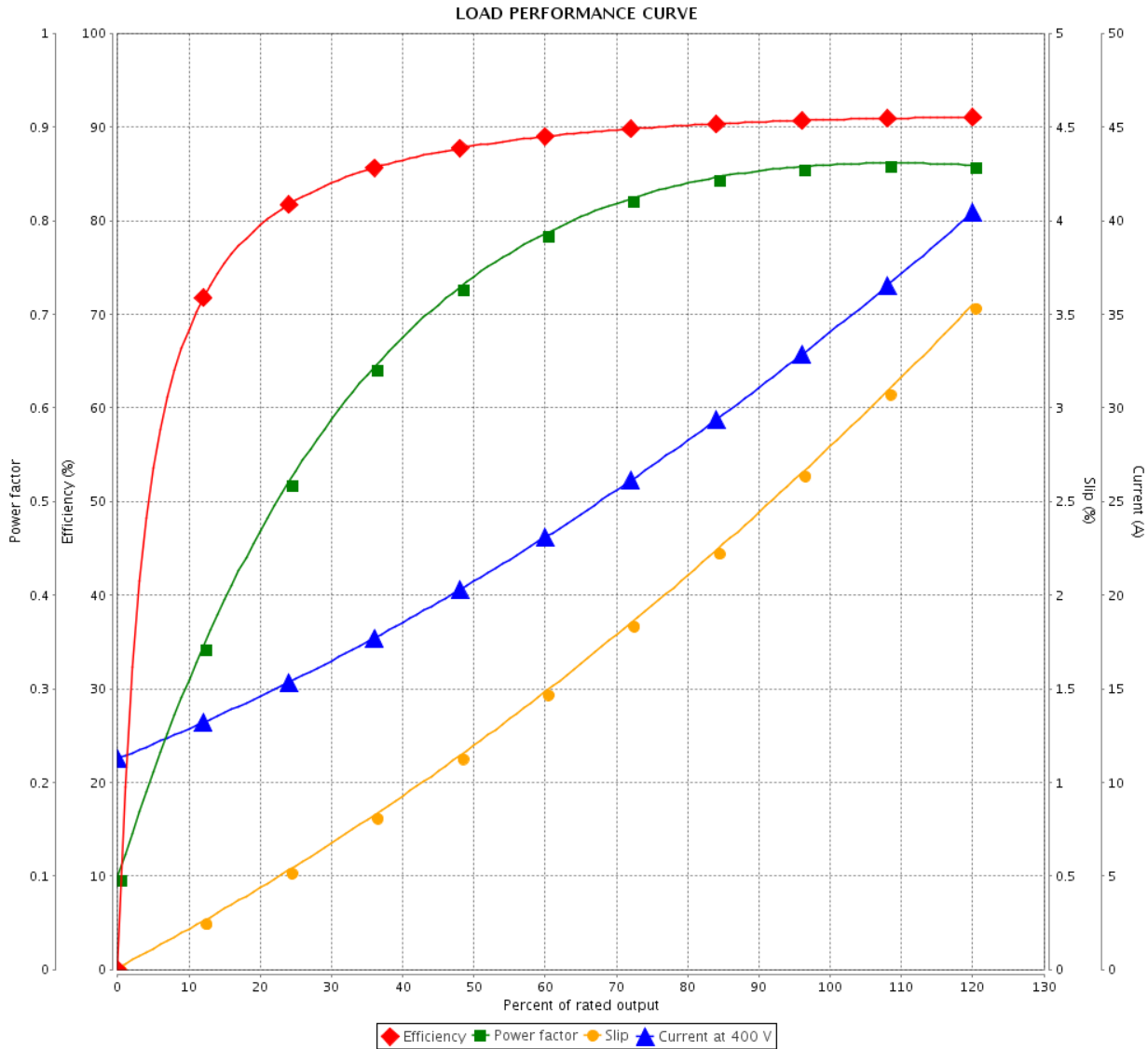


Customer :

Product line : ODP NEMA Premium Efficiency  
Three-Phase

Product code : 11080922

Catalog # : 02536OT3E256TC



Performance : 400 V 50 Hz 2P IE2

Rated current	: 34.2 A	Moment of inertia (J)	: 1.08 sq.ft.lb
LRC	: 5.9	Duty cycle	: Cont.(S1)
Rated torque	: 44.4 ft.lb	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.15
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 2915 rpm	Design	: B

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# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

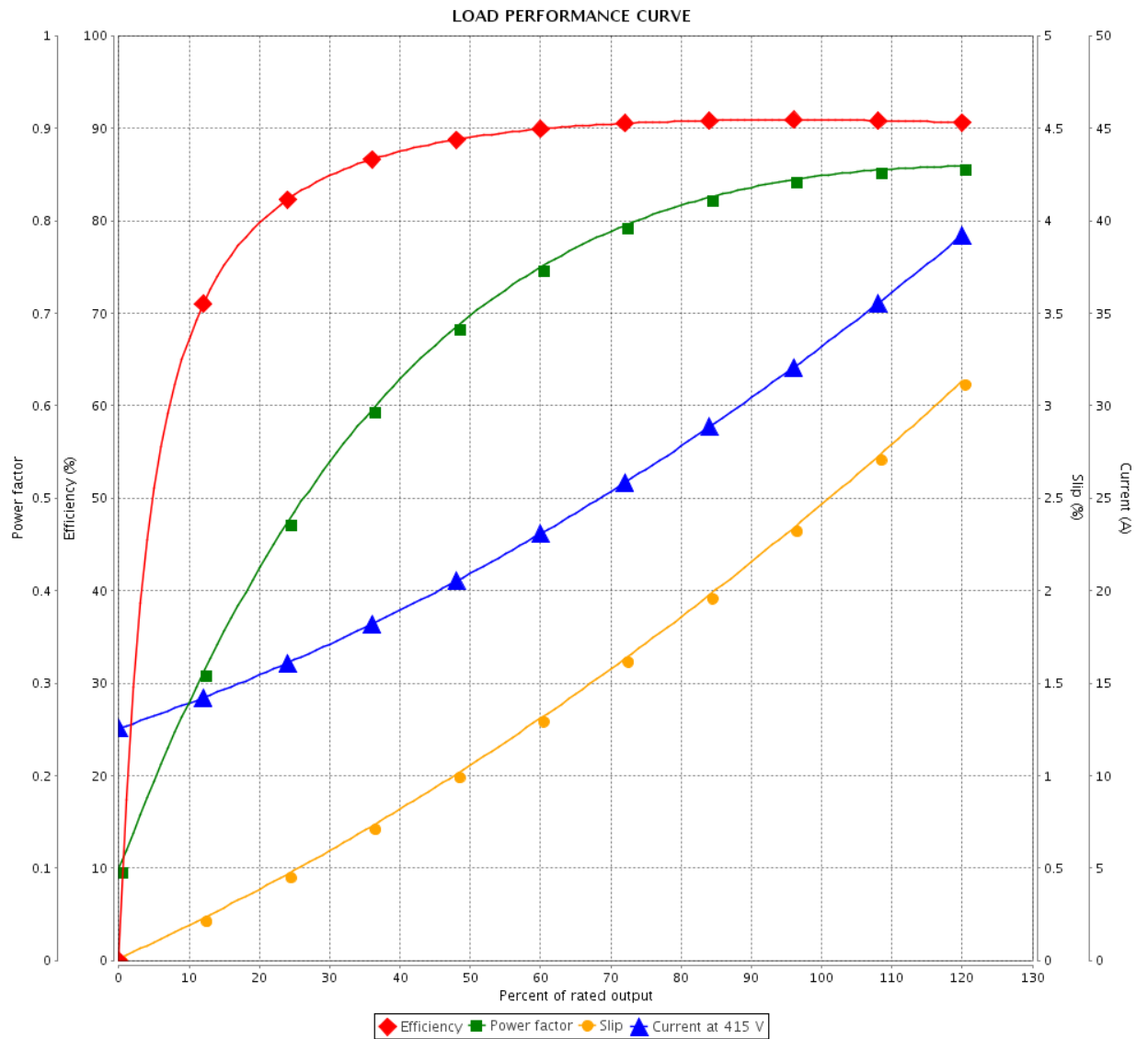


Customer :

Product line : ODP NEMA Premium Efficiency  
Three-Phase

Product code : 11080922

Catalog # : 02536OT3E256TC



Performance : 415 V 50 Hz 2P IE2

Rated current : 33.3 A  
 LRC : 6.5  
 Rated torque : 44.3 ft.lb  
 Locked rotor torque : 200 %  
 Breakdown torque : 300 %  
 Rated speed : 2925 rpm

Moment of inertia (J) : 1.08 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

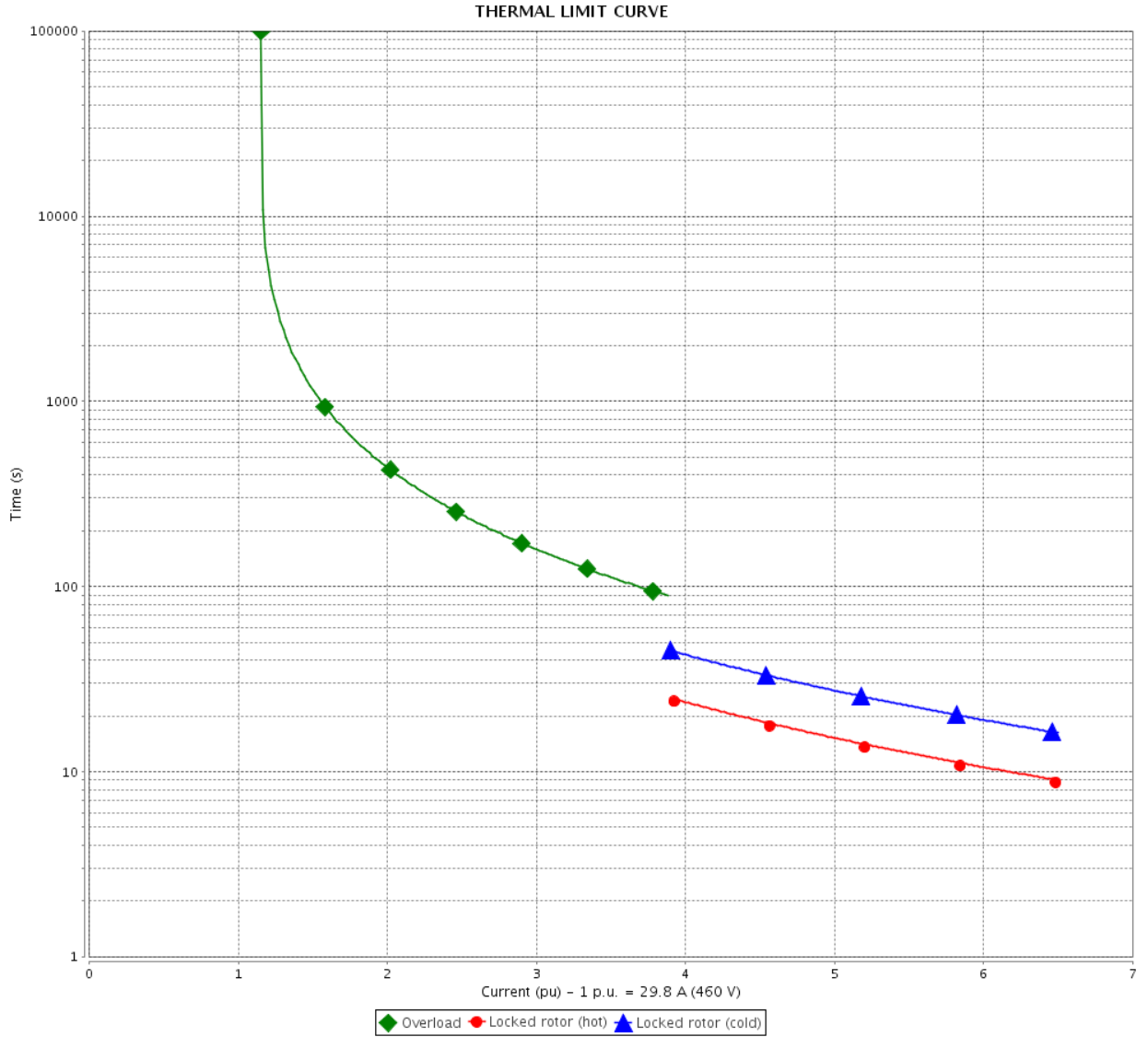
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# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



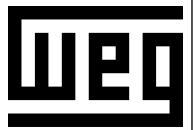
Customer : \_\_\_\_\_



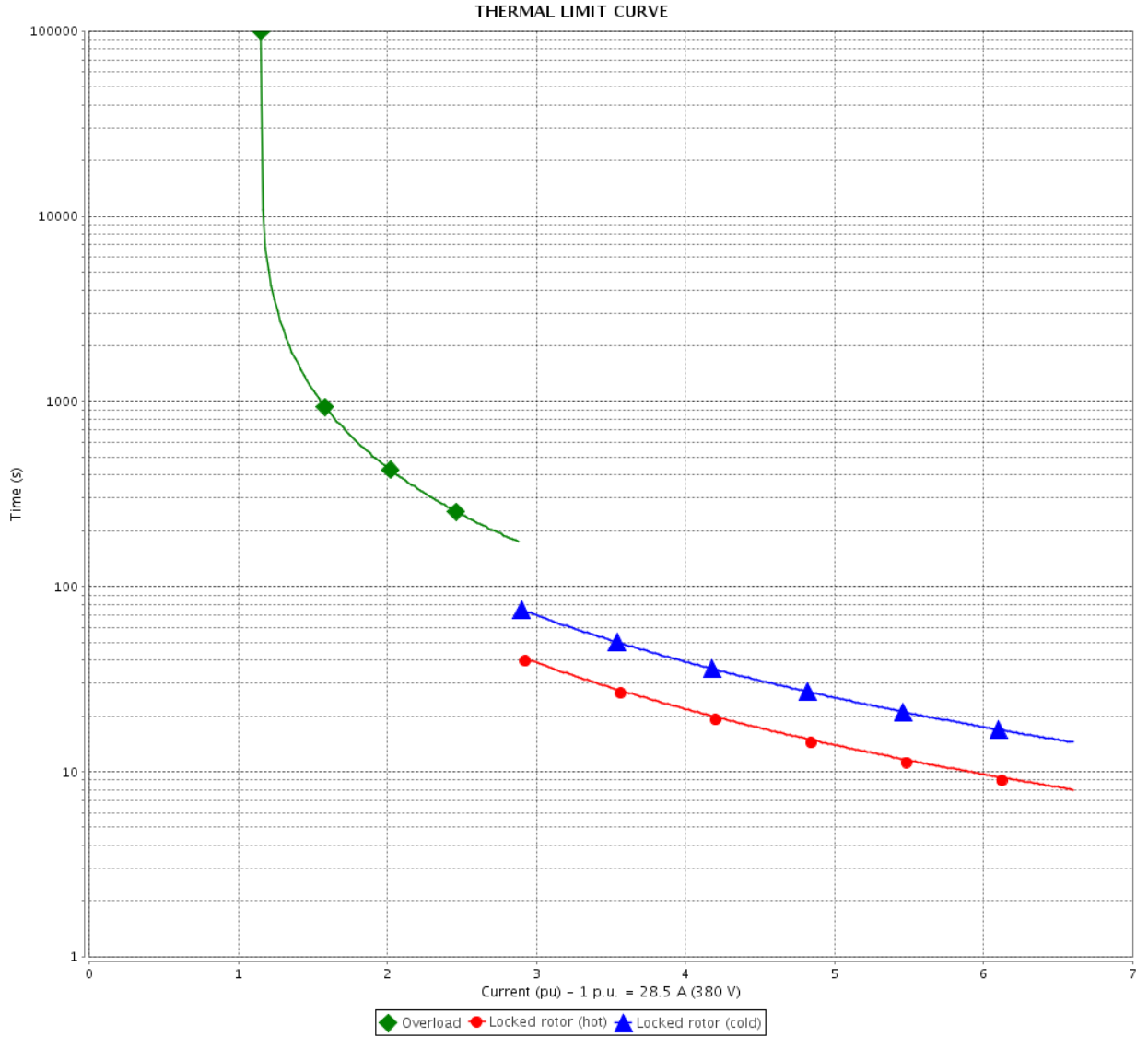
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# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



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



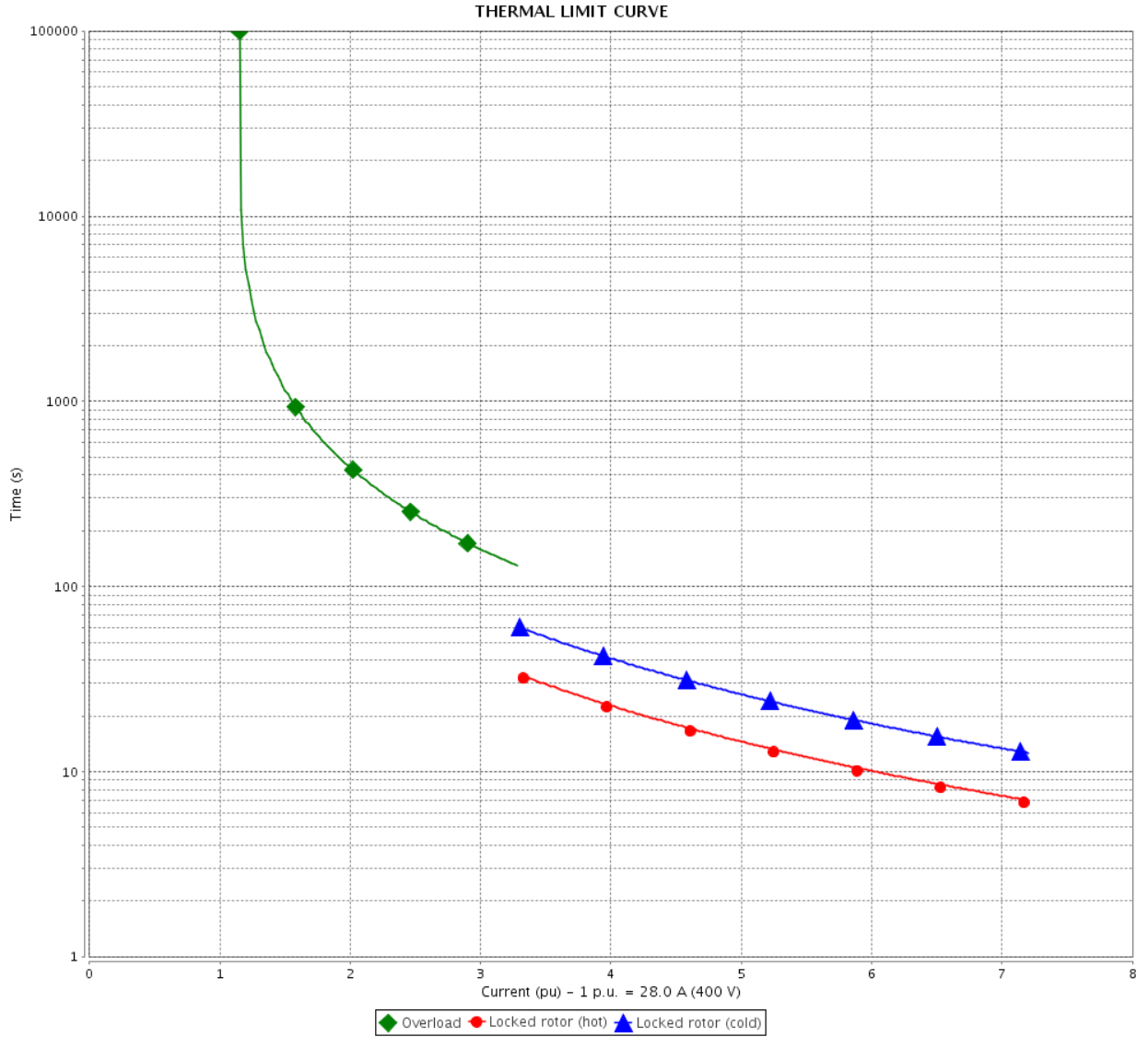
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# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



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



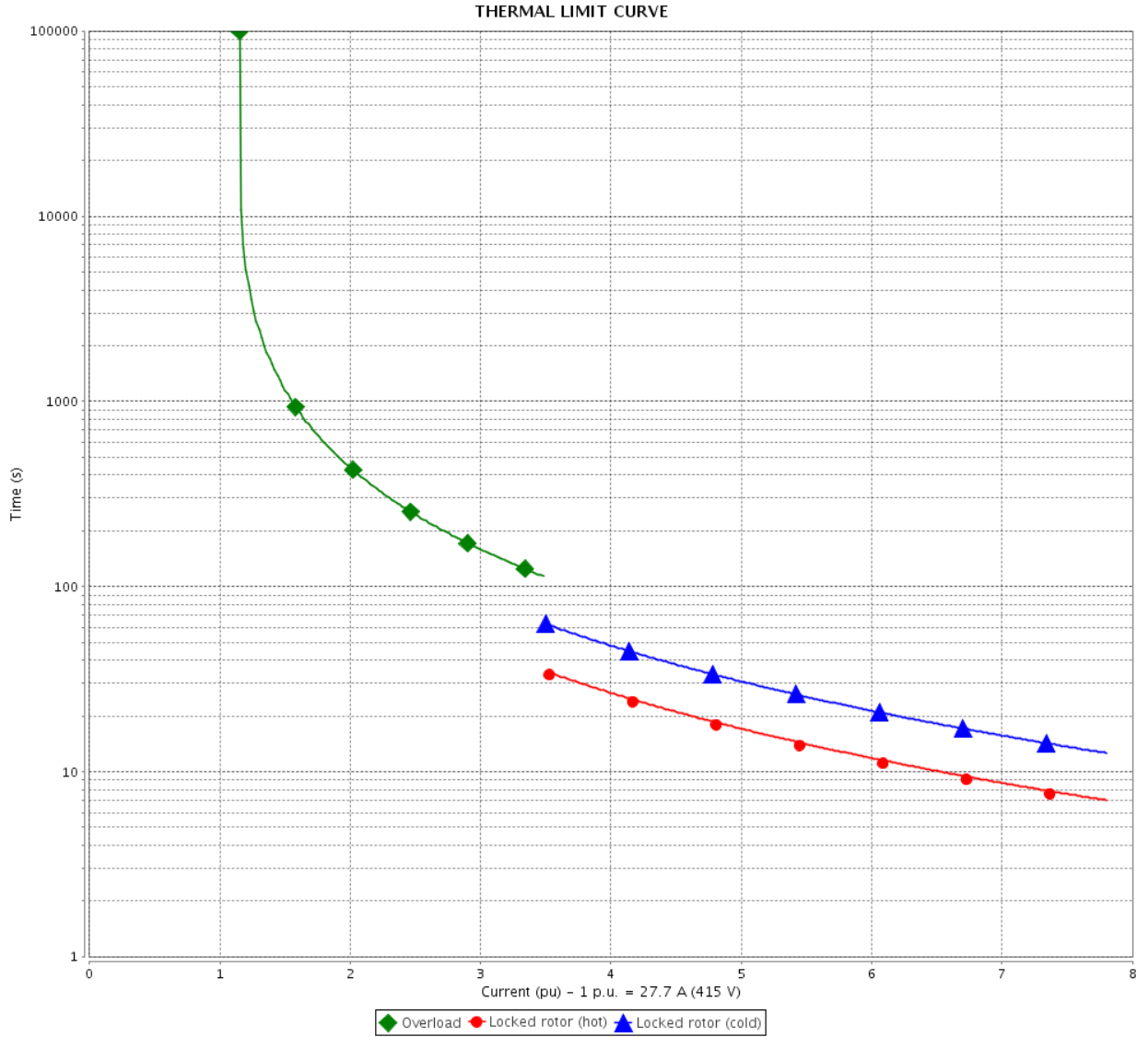
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# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



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



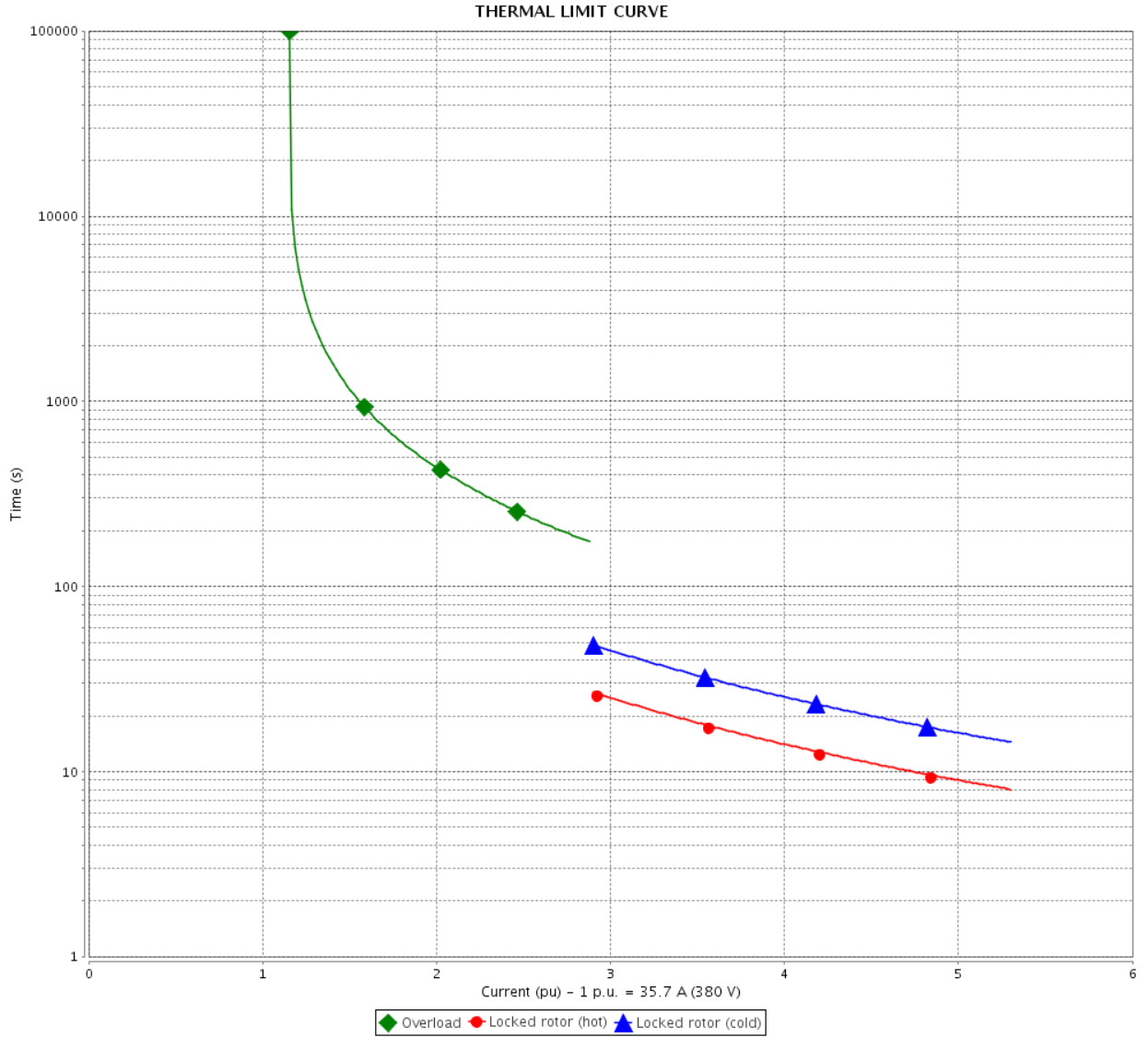
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# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



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



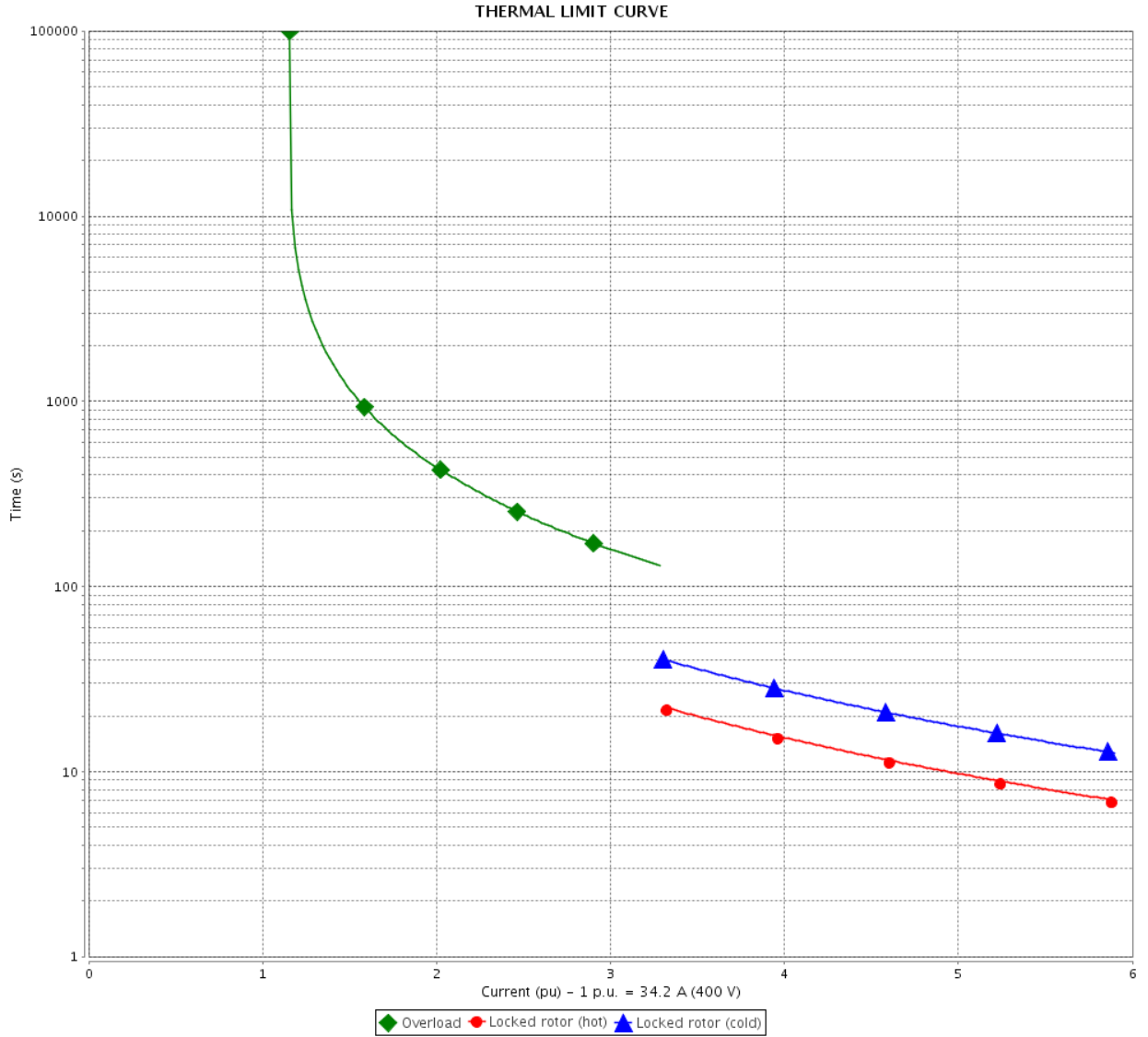
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# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



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



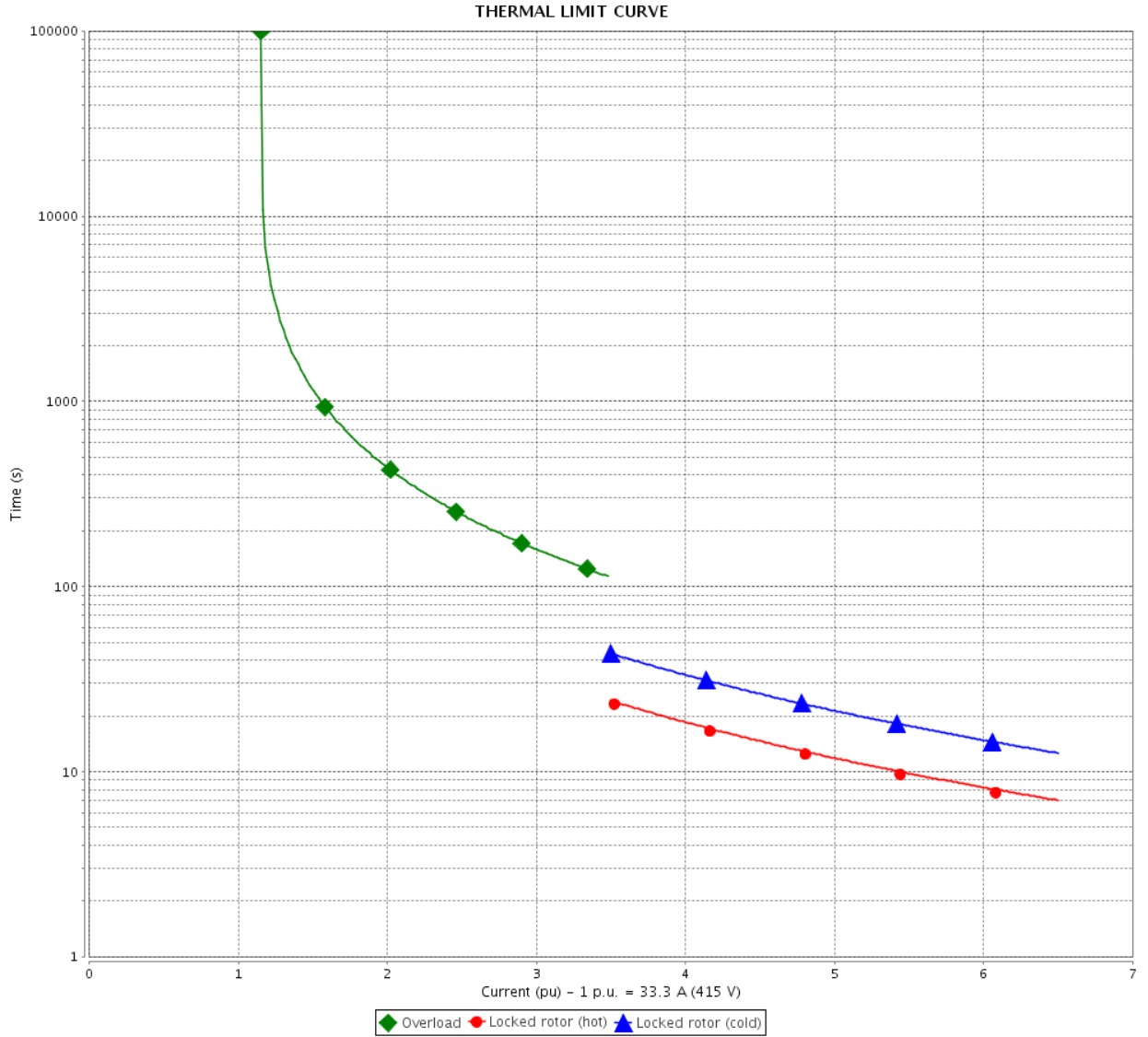
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# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



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



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# VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

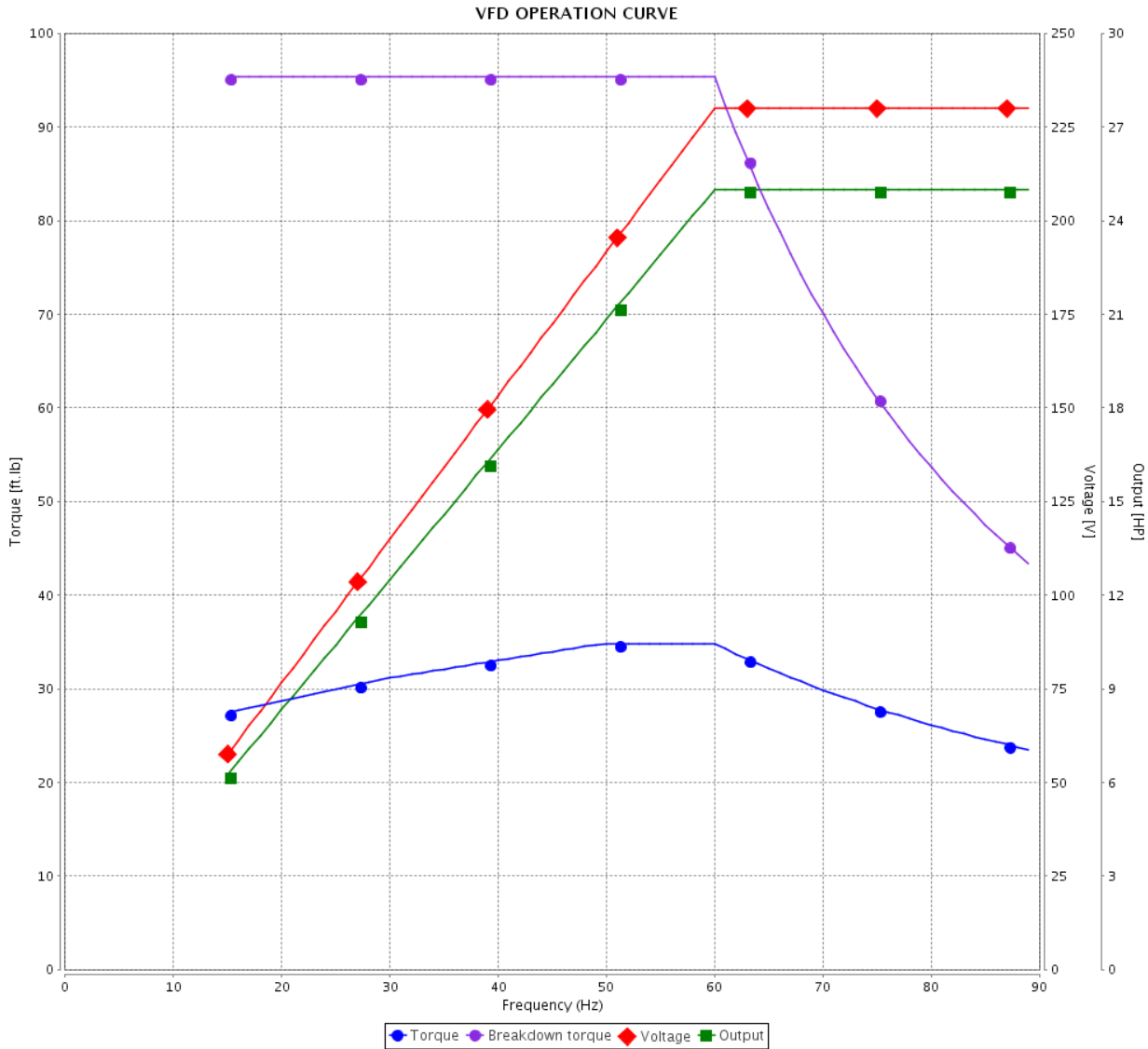


Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 11080922

Catalog # : 02536OT3E256TC



Performance : 208-230/460 V 60 Hz 2P

Rated current : 65.9-59.6/29.8 A  
 LRC : 6.5  
 Rated torque : 36.7 ft.lb  
 Locked rotor torque : 200 %  
 Breakdown torque : 260 %  
 Rated speed : 3530 rpm

Moment of inertia (J) : 1.08 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

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# VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

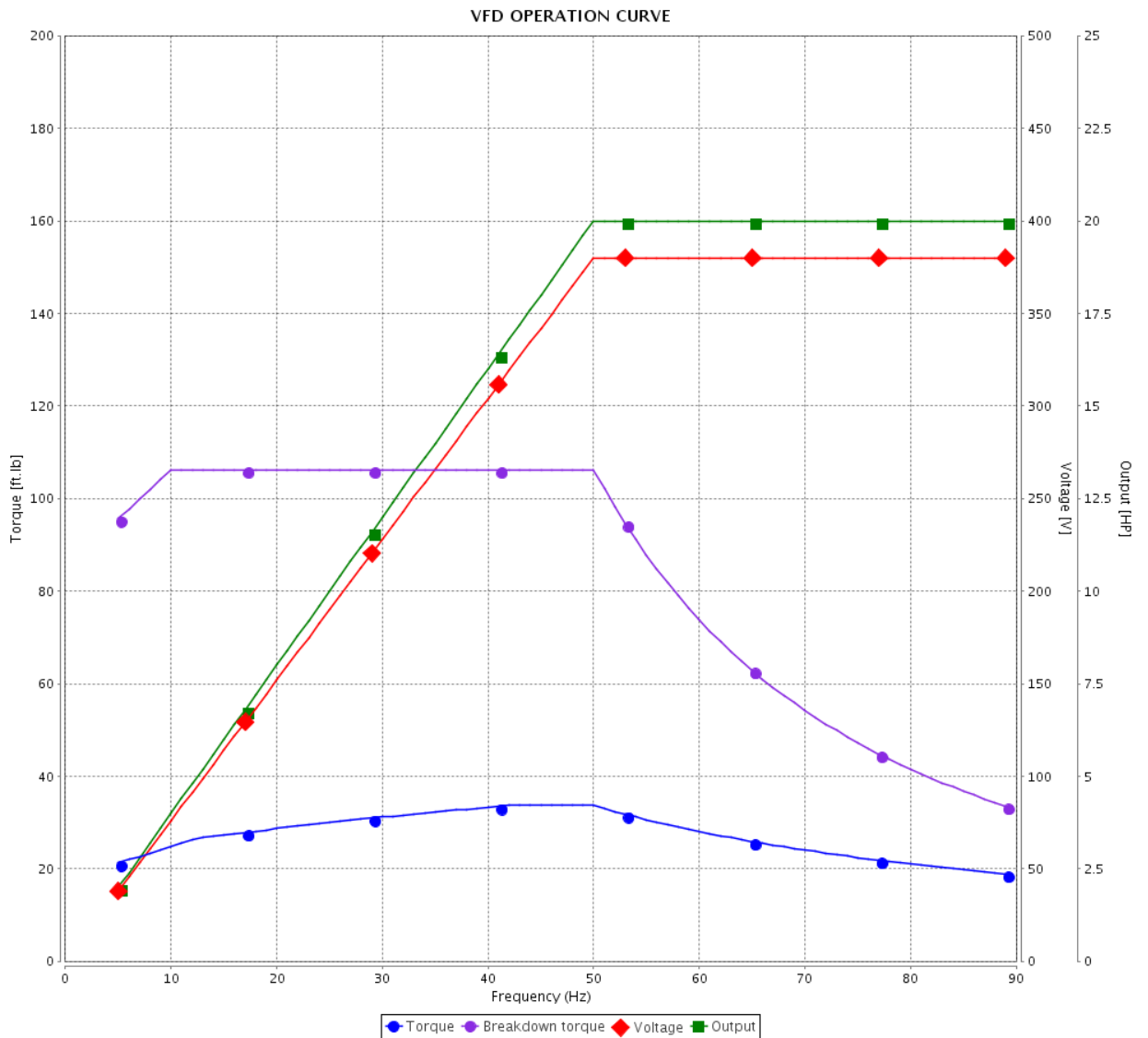


Customer :

Product line : ODP NEMA Premium Efficiency  
Three-Phase

Product code : 11080922

Catalog # : 02536OT3E256TC



Performance : 380 V 50 Hz 2P IE3

Rated current : 28.5 A  
LRC : 6.6  
Rated torque : 35.4 ft.lb  
Locked rotor torque : 200 %  
Breakdown torque : 300 %  
Rated speed : 2925 rpm

Moment of inertia (J) : 1.08 sq.ft.lb  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.15  
Temperature rise : 80 K  
Design : B

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# VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

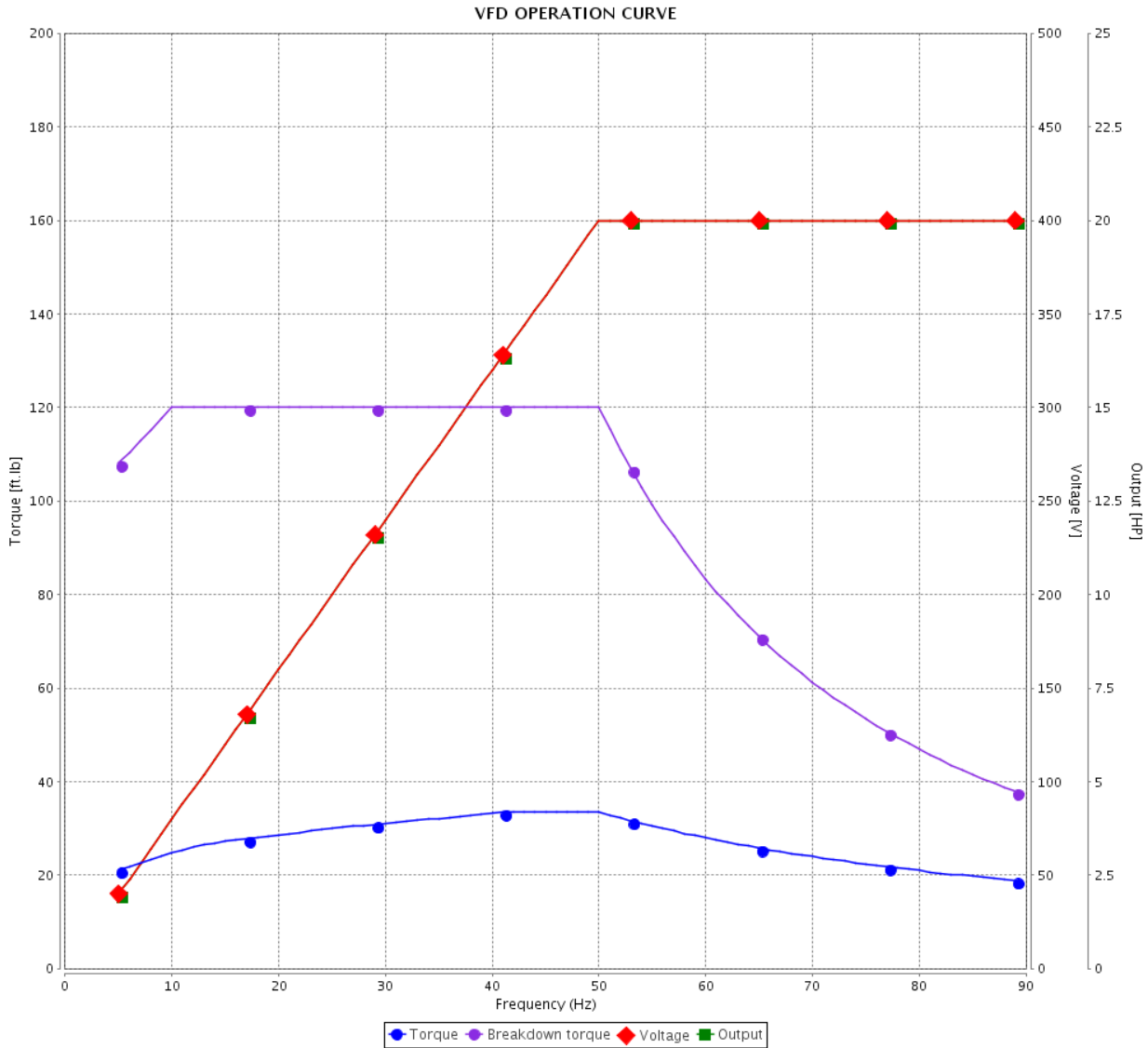


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Product code : 11080922

Catalog # : 02536OT3E256TC



Performance : 400 V 50 Hz 2P IE3

Rated current	: 28.0 A	Moment of inertia (J)	: 1.08 sq.ft.lb
LRC	: 7.2	Duty cycle	: Cont.(S1)
Rated torque	: 35.3 ft.lb	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.15
Breakdown torque	: 340 %	Temperature rise	: 80 K
Rated speed	: 2935 rpm	Design	: B

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Performed by		Page		Revision
Checked by		32 / 36		
Date	08/11/2019			

# VFD OPERATION CURVE

## Three Phase Induction Motor - Squirrel Cage

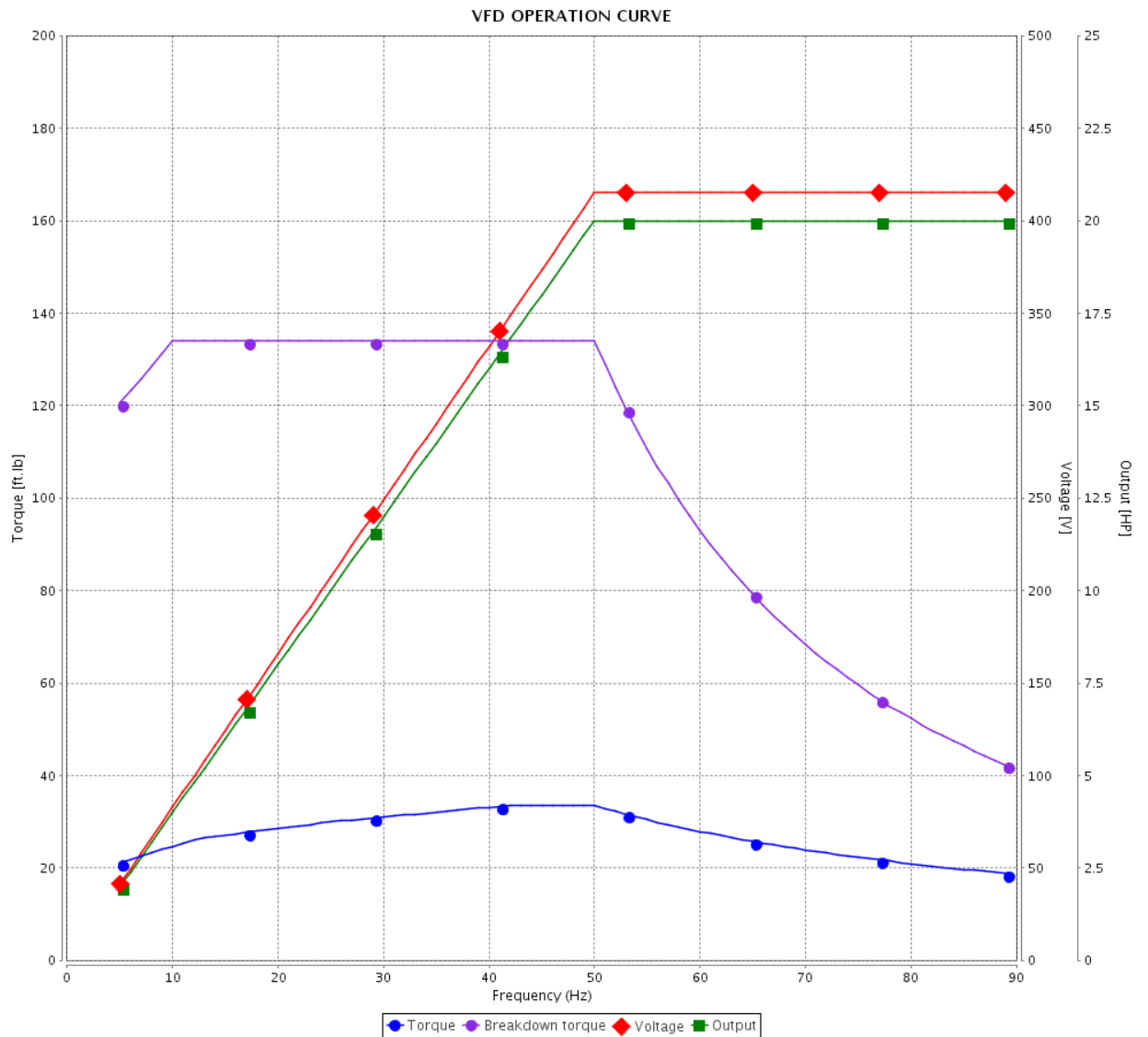


Customer :

Product line : ODP NEMA Premium Efficiency  
Three-Phase

Product code : 11080922

Catalog # : 02536OT3E256TC



Performance : 415 V 50 Hz 2P IE3

Rated current : 27.7 A  
 LRC : 7.8  
 Rated torque : 35.2 ft.lb  
 Locked rotor torque : 250 %  
 Breakdown torque : 380 %  
 Rated speed : 2940 rpm

Moment of inertia (J) : 1.08 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

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Performed by			Page 33 / 36	Revision
Checked by				
Date	08/11/2019			

# VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

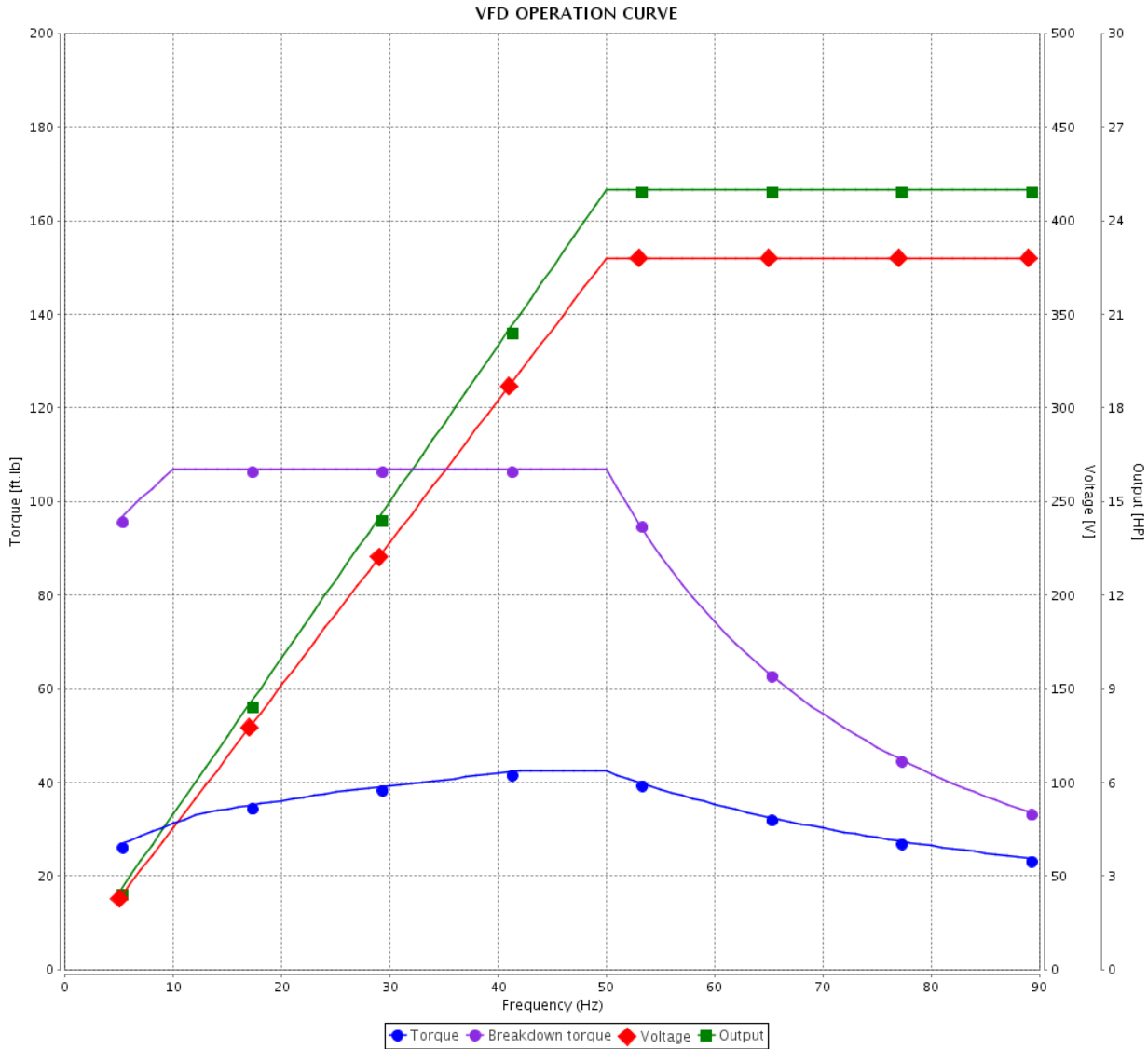


Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 11080922

Catalog # : 02536OT3E256TC



Performance : 380 V 50 Hz 2P IE1

Rated current : 35.7 A  
 LRC : 5.3  
 Rated torque : 44.6 ft.lb  
 Locked rotor torque : 160 %  
 Breakdown torque : 240 %  
 Rated speed : 2905 rpm

Moment of inertia (J) : 1.08 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

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# VFD OPERATION CURVE

## Three Phase Induction Motor - Squirrel Cage

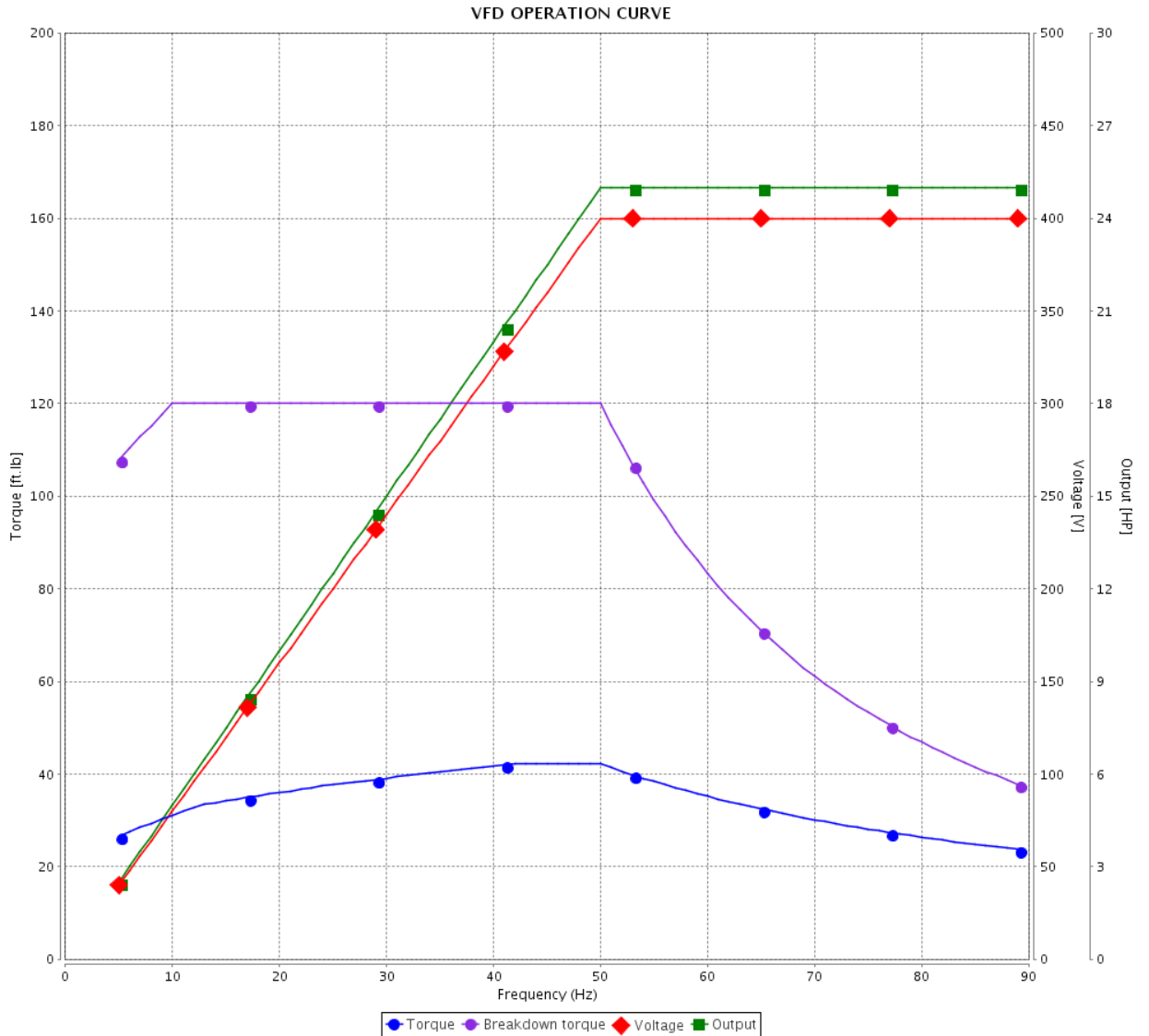


Customer : \_\_\_\_\_

Product line : ODP NEMA Premium Efficiency  
Three-Phase

Product code : 11080922

Catalog # : 02536OT3E256TC



Performance : 400 V 50 Hz 2P IE2

Rated current : 34.2 A  
 LRC : 5.9  
 Rated torque : 44.4 ft.lb  
 Locked rotor torque : 180 %  
 Breakdown torque : 270 %  
 Rated speed : 2915 rpm

Moment of inertia (J) : 1.08 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

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Performed by		Page		Revision
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Date	08/11/2019			

# VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

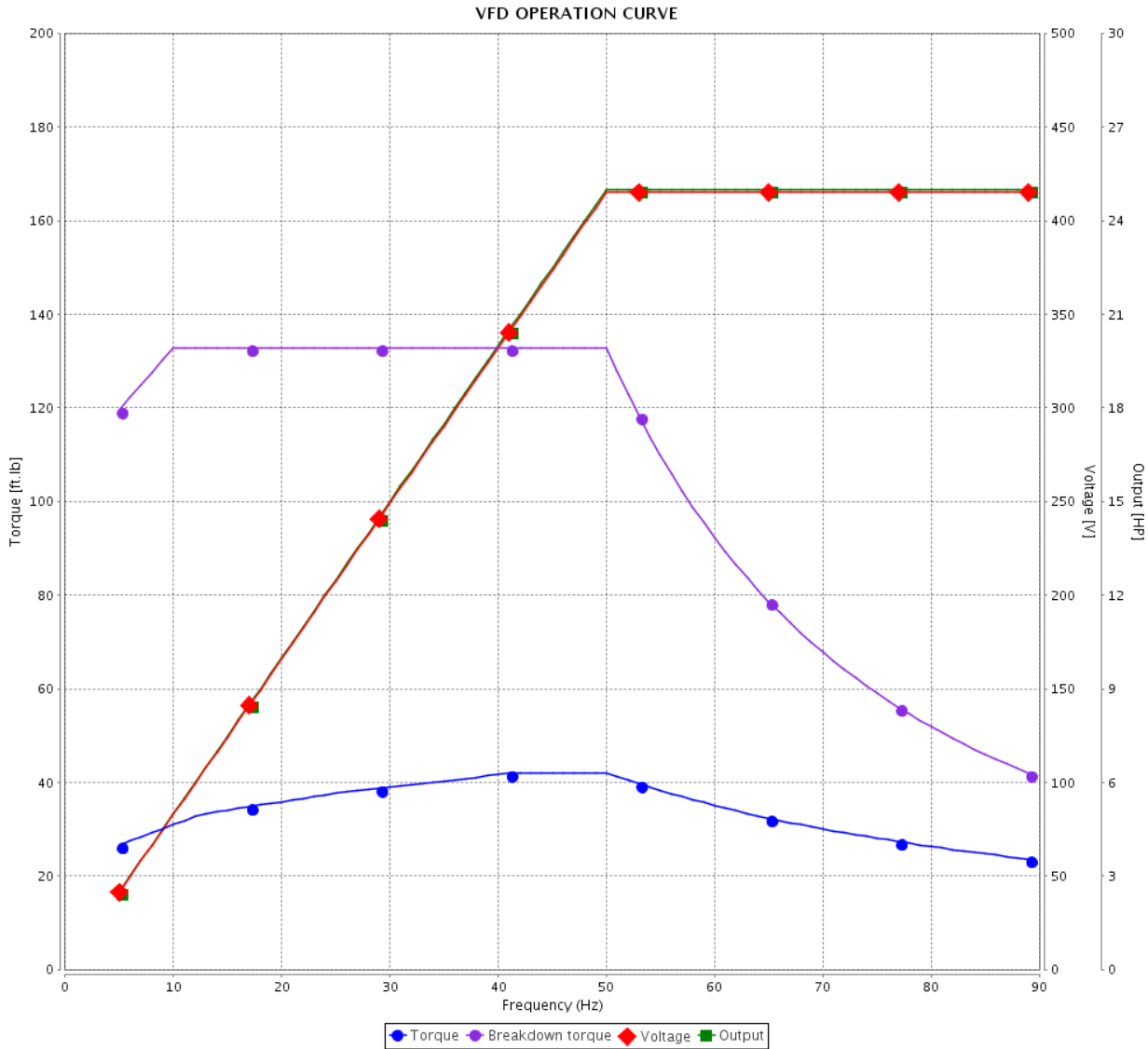


Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 11080922

Catalog # : 02536OT3E256TC



Performance : 415 V 50 Hz 2P IE2

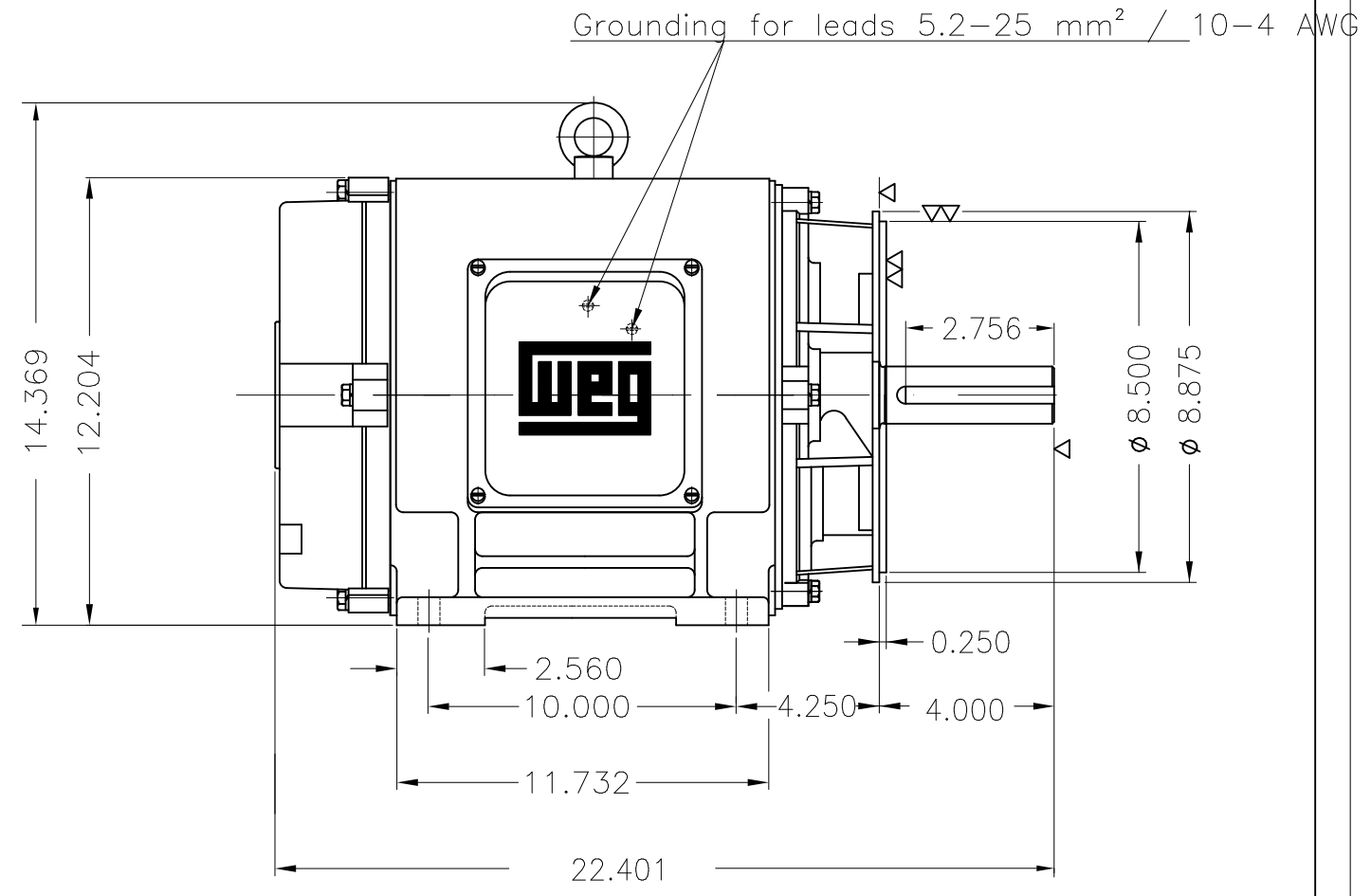
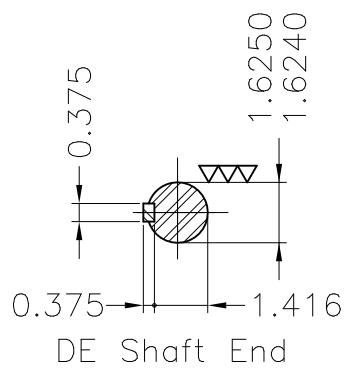
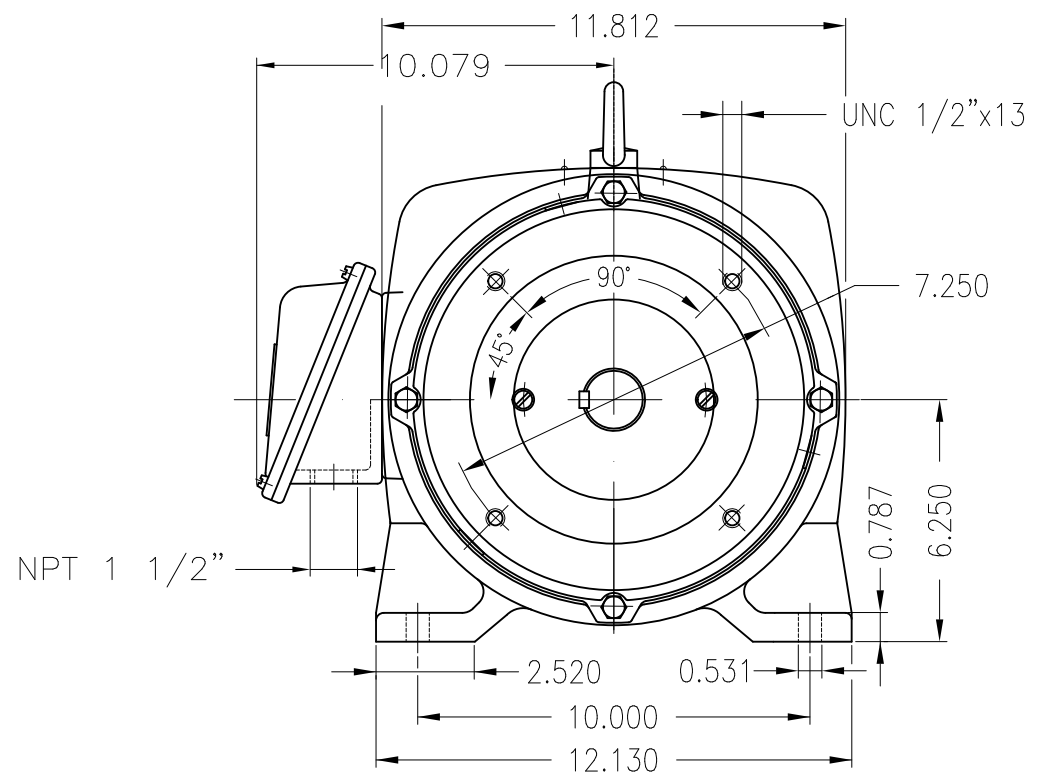
Rated current : 33.3 A  
 LRC : 6.5  
 Rated torque : 44.3 ft.lb  
 Locked rotor torque : 200 %  
 Breakdown torque : 300 %  
 Rated speed : 2925 rpm

Moment of inertia (J) : 1.08 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

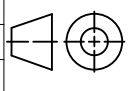
Rev.	Changes Summary	Performed	Checked	Date
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Date	08/11/2019			

Dimensões em polegada  
Dimensions in inches

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



Bearing cap  
Color RAL 5009  
Painting plan 203A  
Mounting B34R(D)

ECM	LOC	SUMMARY OF MODIFICATIONS			EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	USERADMIN	 THREE PHASE NEMA P. EFF MOTOR FRAME 256TC IP23 ODP WEG code: 11080922							
CHECKED									
RELEASED									
REL DT	08.11.2019	WMO	Jaragua do Sul	Product Engineering	SHEET	1 / 1			

25 HP 02 Poles 60Hz

A

