

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer							
Product line	: ODP NEMA Premium Efficiency Three-Phase	Product code :	11082956				
		Catalog # :	02018OT3E256TC				
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>	: 281 lb				
Protection degree	: IP23	Moment of inertia (J)	: 2.62 sq.ft.lb				
Design	: B						
Output [HP]	20	15	15	15	20	20	20
Poles	4	4	4	4	4	4	4
Frequency [Hz]	60	50	50	50	50	50	50
Rated voltage [V]	208-230/460	380	400	415	380	400	415
Rated current [A]	55.3-49.4/24.7	23.4	23.4	24.1	29.6	29.1	29.2
L. R. Amperes [A]	348-311/156	166	175	188	166	175	187
LRC [A]	6.3x(Code G)	7.1x(Code J)	7.5x(Code K)	7.8x(Code K)	5.6x(Code F)	6.0x(Code G)	6.4x(Code H)
No load current [A]	20.7-24.0/12.0	11.9	13.5	15.1	11.9	13.5	15.1
Rated speed [RPM]	1770	1475	1475	1475	1465	1465	1470
Slip [%]	1.67	1.67	1.67	1.67	2.33	2.33	2.00
Rated torque [ft.lb]	58.5	52.7	52.7	52.7	70.7	70.7	70.5
Locked rotor torque [%]	260	229	260	270	170	190	200
Breakdown torque [%]	280	350	390	430	260	290	320
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	21s (cold) 12s (hot)	28s (cold) 16s (hot)	27s (cold) 15s (hot)	25s (cold) 14s (hot)	28s (cold) 16s (hot)	27s (cold) 15s (hot)	25s (cold) 14s (hot)
Noise level <sup>2</sup>	60.0 dB(A)						
Efficiency (%)	25%	91.5	86.4	85.8	85.3	89.4	89.4
	50%	91.7	87.6	87.1	86.7	90.2	90.2
	75%	93.0	90.4	90.4	90.4	91.0	91.0
	100%	93.0	91.4	91.5	91.6	91.7	91.7
Power Factor	25%	0.37	0.35	0.31	0.28	0.43	0.39
	50%	0.63	0.59	0.54	0.49	0.68	0.63
	75%	0.72	0.72	0.67	0.62	0.80	0.76
	100%	0.82	0.80	0.76	0.71	0.84	0.81
Bearing type	: Drive end 6309 Z C3	: Non drive end 6209 Z C3	Foundation loads				
Sealing	: Without	: Without	Max. traction : 956 lb				
	: Bearing Seal	: Bearing Seal	Max. compression : 1237 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

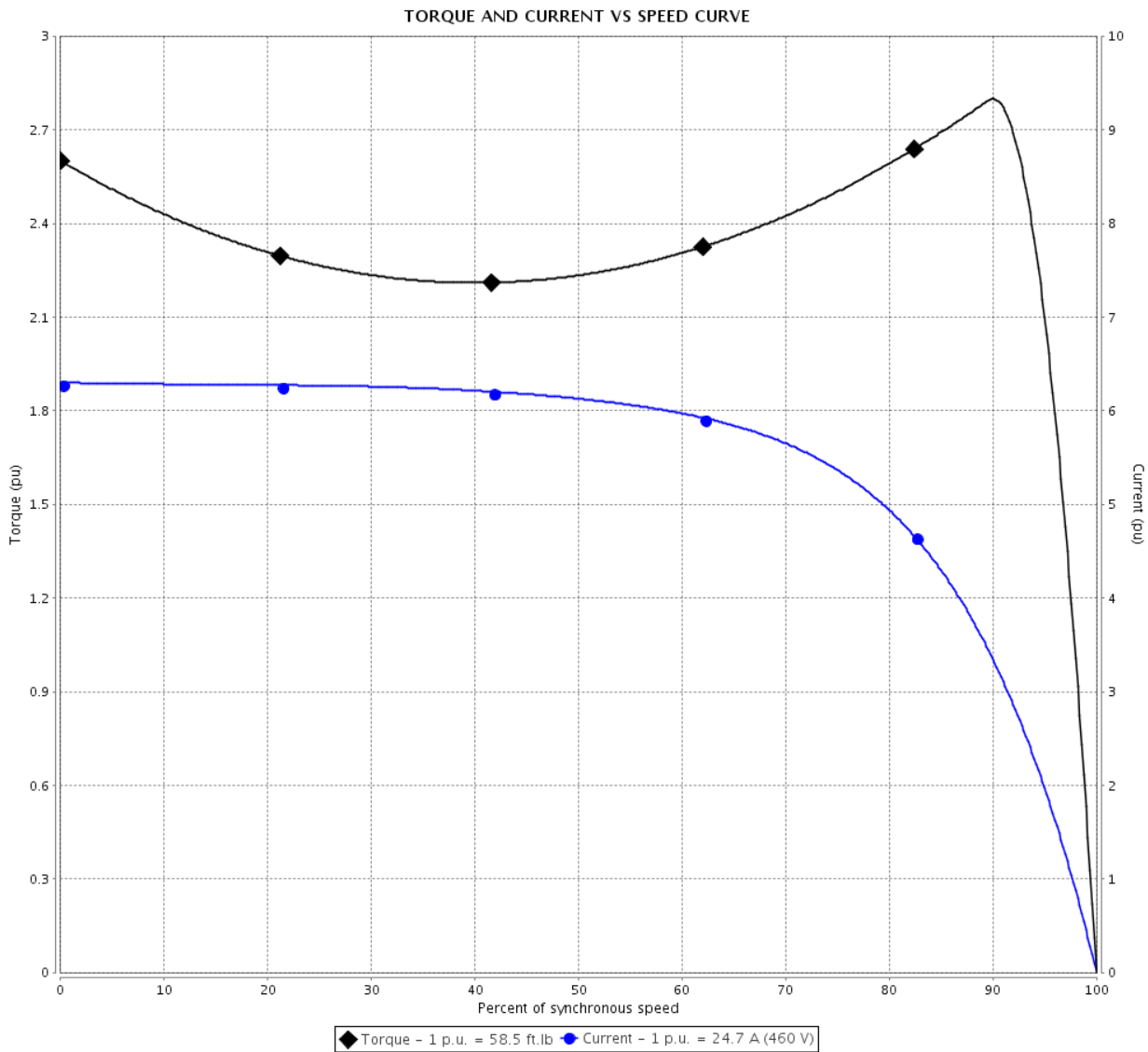


Customer :

Product line : ODP NEMA Premium Efficiency  
Three-Phase

Product code : 11082956

Catalog # : 02018OT3E256TC



Performance : 208-230/460 V 60 Hz 4P

Rated current	: 55.3-49.4/24.7 A	Moment of inertia (J)	: 2.62 sq.ft.lb
LRC	: 6.3	Duty cycle	: Cont.(S1)
Rated torque	: 58.5 ft.lb	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.15
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 1770 rpm	Design	: B

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

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# TORQUE AND CURRENT VS SPEED CURVE



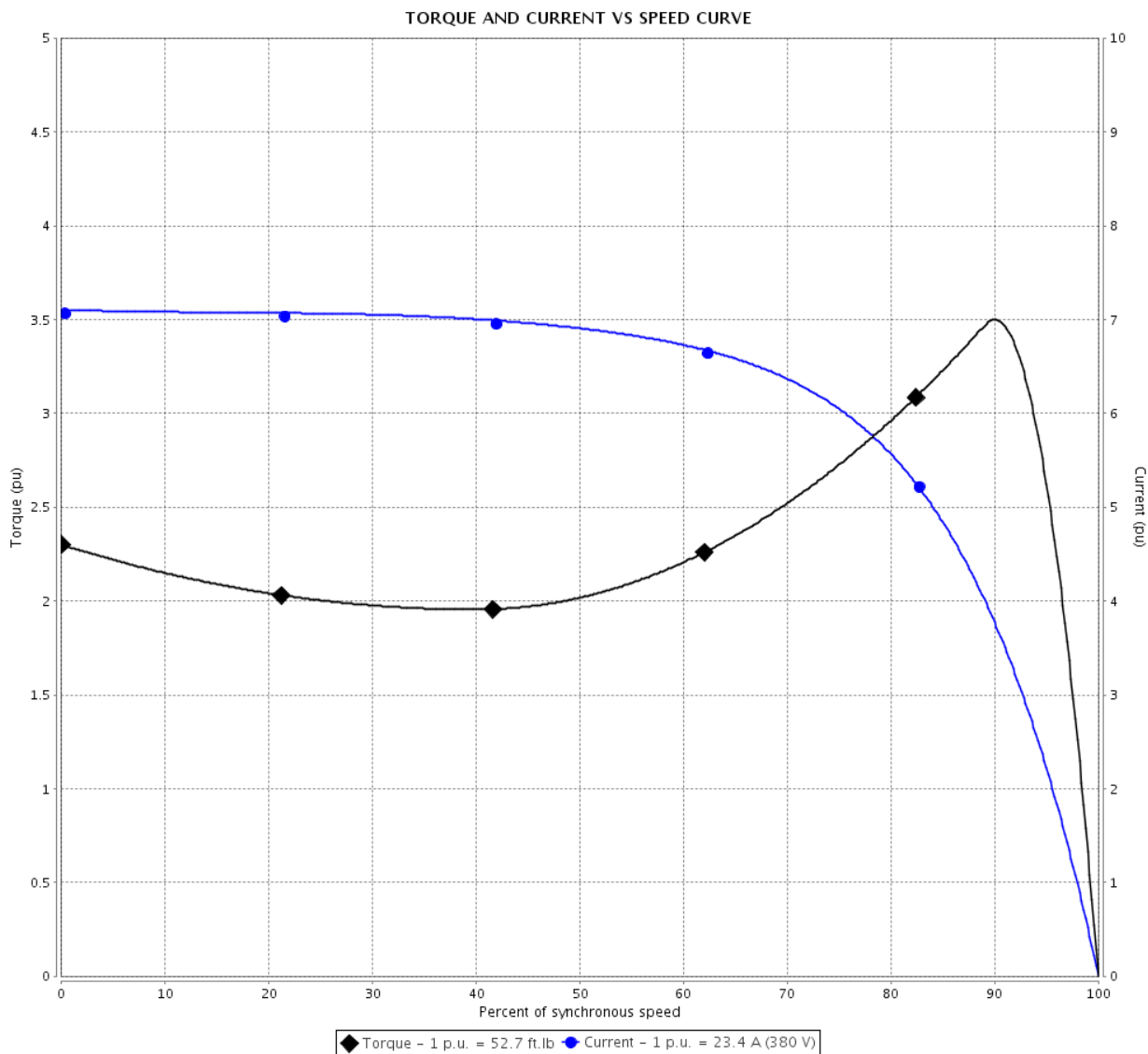
## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 11082956

Catalog # : 02018OT3E256TC



Performance : 380 V 50 Hz 4P IE3

Rated current	: 23.4 A	Moment of inertia (J)	: 2.62 sq.ft.lb
LRC	: 7.1	Duty cycle	: Cont.(S1)
Rated torque	: 52.7 ft.lb	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.15
Breakdown torque	: 350 %	Temperature rise	: 80 K
Rated speed	: 1475 rpm	Design	: B

Locked rotor time : 28s (cold) 16s (hot)

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# TORQUE AND CURRENT VS SPEED CURVE

## Three Phase Induction Motor - Squirrel Cage

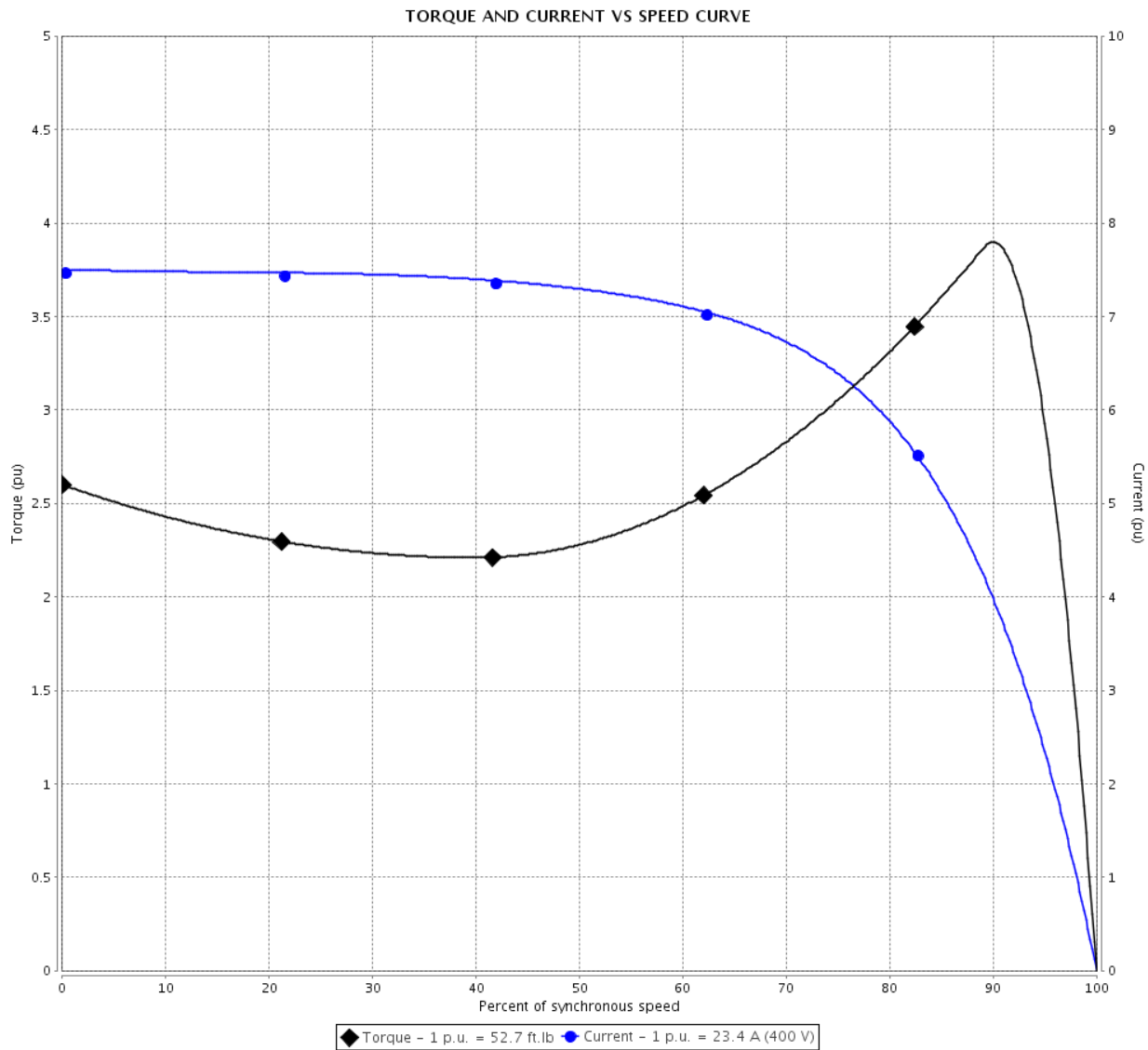


Customer :

Product line : ODP NEMA Premium Efficiency  
Three-Phase

Product code : 11082956

Catalog # : 02018OT3E256TC



Performance : 400 V 50 Hz 4P IE3

Rated current	: 23.4 A	Moment of inertia (J)	: 2.62 sq.ft.lb
LRC	: 7.5	Duty cycle	: Cont.(S1)
Rated torque	: 52.7 ft.lb	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.15
Breakdown torque	: 390 %	Temperature rise	: 80 K
Rated speed	: 1475 rpm	Design	: B

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

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# TORQUE AND CURRENT VS SPEED CURVE



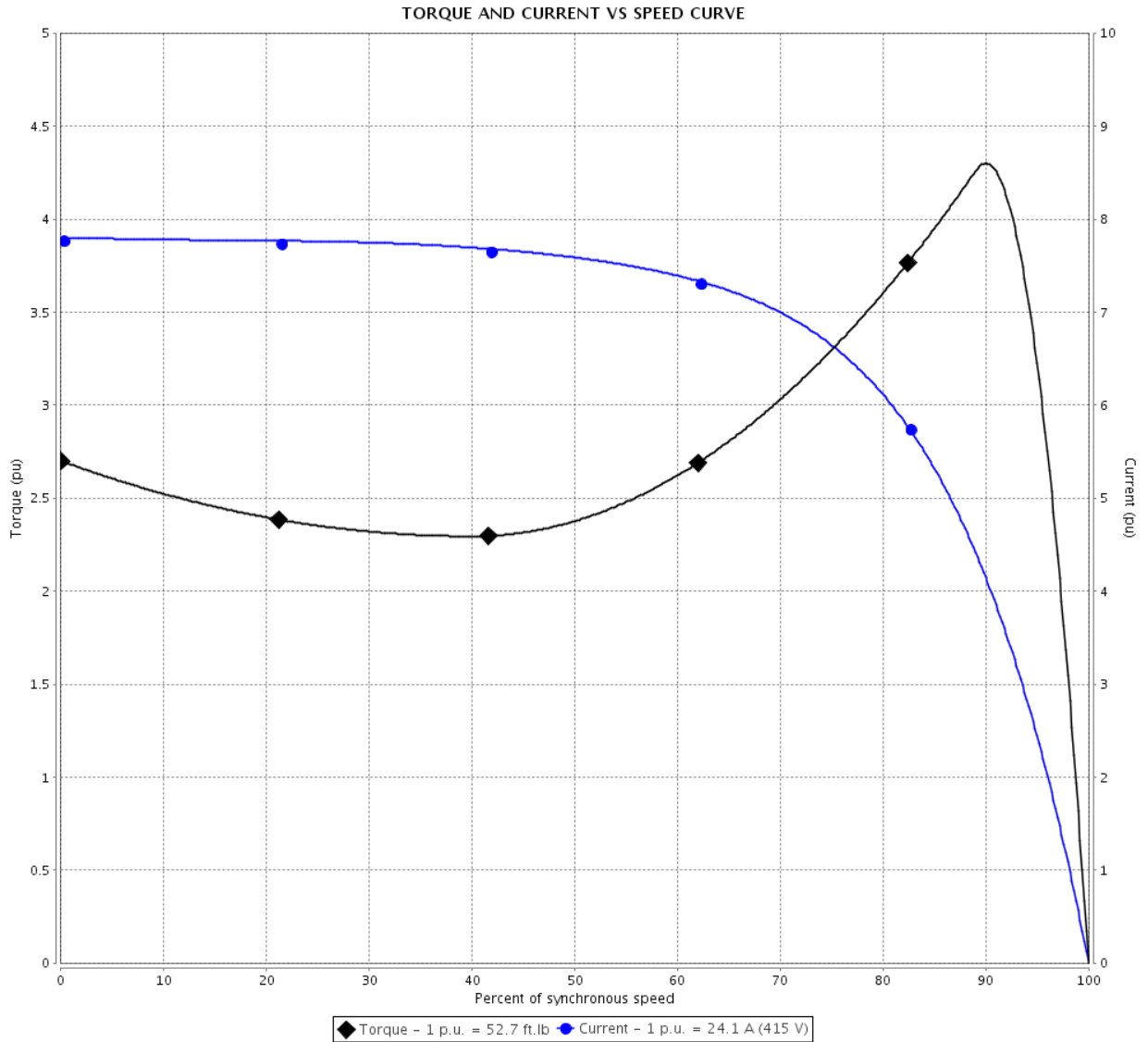
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Customer :

Product line : ODP NEMA Premium Efficiency  
Three-Phase

Product code : 11082956

Catalog # : 02018OT3E256TC



Performance : 415 V 50 Hz 4P IE3

Rated current	: 24.1 A	Moment of inertia (J)	: 2.62 sq.ft.lb
LRC	: 7.8	Duty cycle	: Cont.(S1)
Rated torque	: 52.7 ft.lb	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.15
Breakdown torque	: 430 %	Temperature rise	: 80 K
Rated speed	: 1475 rpm	Design	: B

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

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# TORQUE AND CURRENT VS SPEED CURVE

## Three Phase Induction Motor - Squirrel Cage



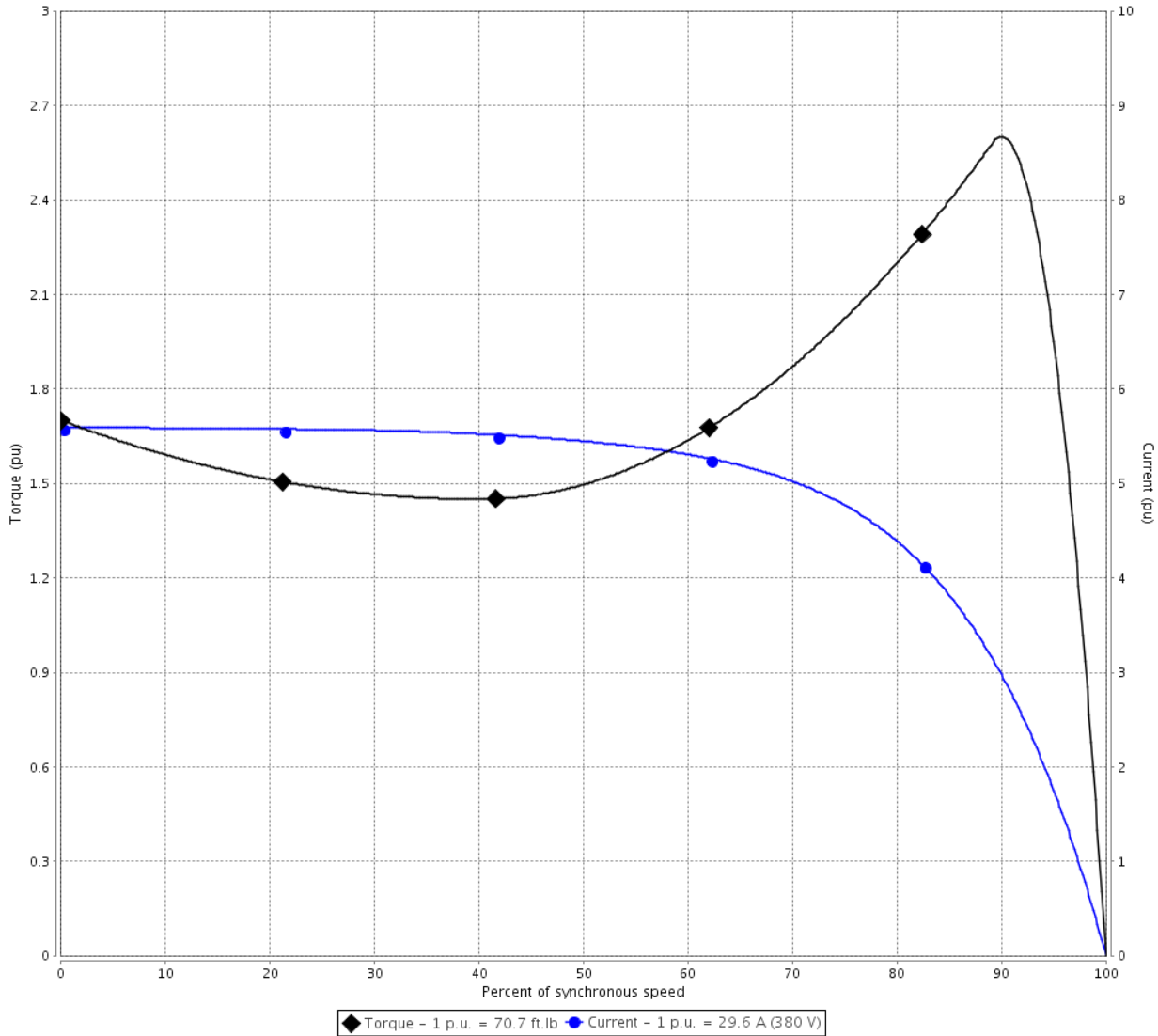
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Three-Phase

Product code : 11082956

Catalog # : 02018OT3E256TC

TORQUE AND CURRENT VS SPEED CURVE



Performance : 380 V 50 Hz 4P IE2

Rated current	: 29.6 A	Moment of inertia (J)	: 2.62 sq.ft.lb
LRC	: 5.6	Duty cycle	: Cont.(S1)
Rated torque	: 70.7 ft.lb	Insulation class	: F
Locked rotor torque	: 170 %	Service factor	: 1.15
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1465 rpm	Design	: B

Locked rotor time : 28s (cold) 16s (hot)

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# TORQUE AND CURRENT VS SPEED CURVE



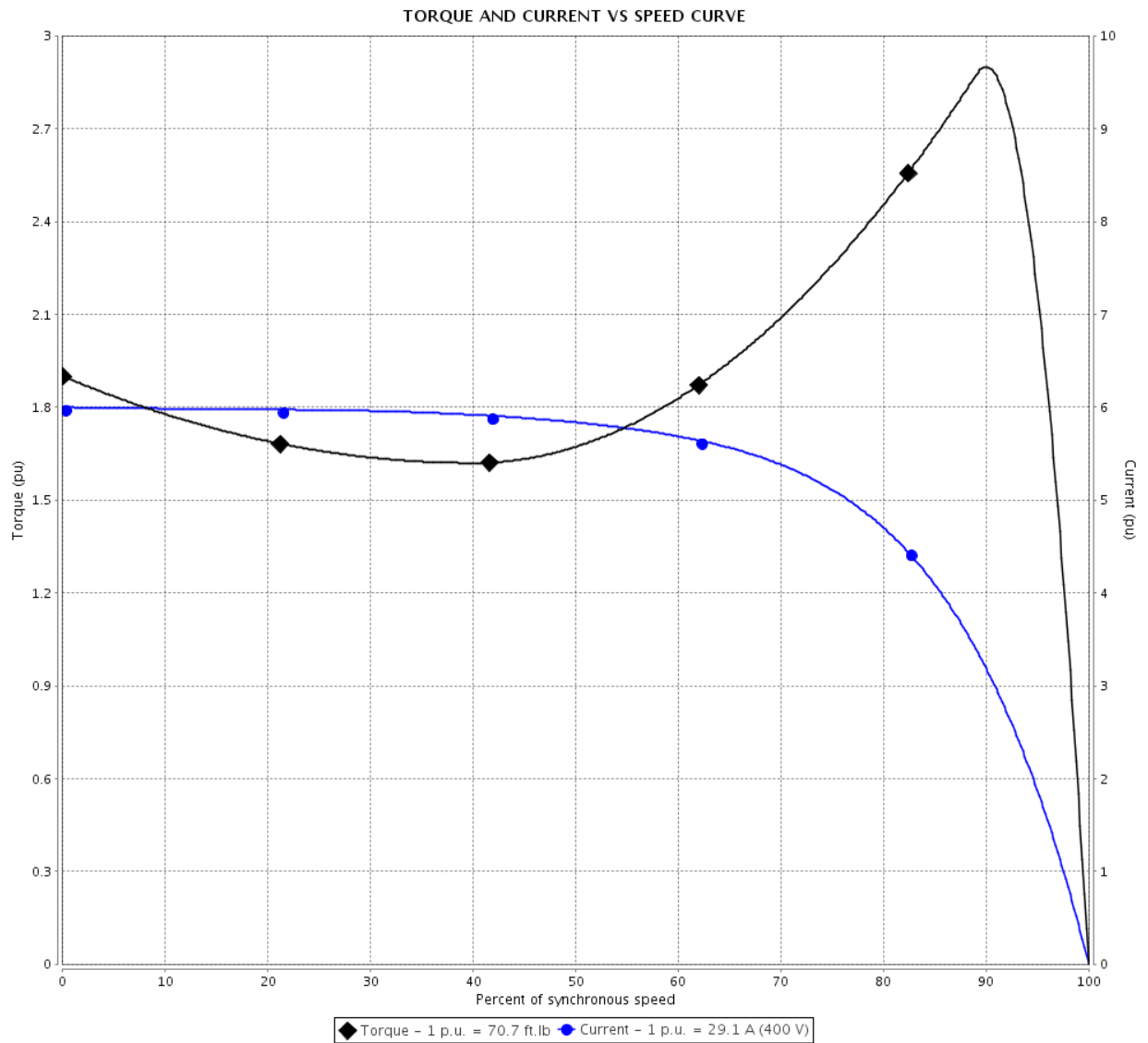
## Three Phase Induction Motor - Squirrel Cage

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Product code : 11082956

Catalog # : 02018OT3E256TC



Performance : 400 V 50 Hz 4P IE2

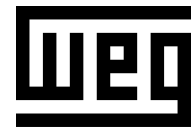
Rated current	: 29.1 A	Moment of inertia (J)	: 2.62 sq.ft.lb
LRC	: 6.0	Duty cycle	: Cont.(S1)
Rated torque	: 70.7 ft.lb	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.15
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 1465 rpm	Design	: B

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

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# TORQUE AND CURRENT VS SPEED CURVE

## Three Phase Induction Motor - Squirrel Cage

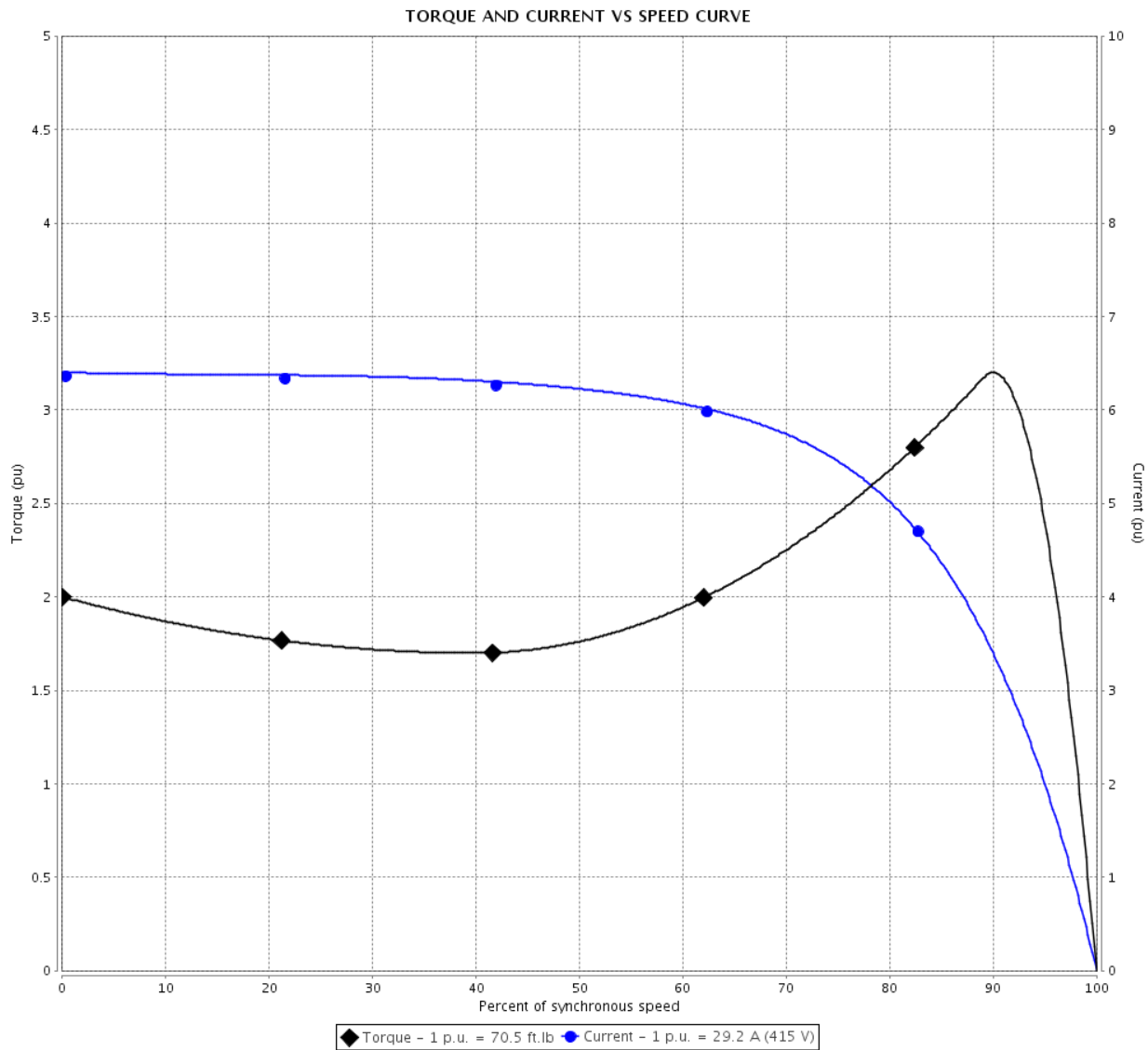


Customer :

Product line : ODP NEMA Premium Efficiency  
Three-Phase

Product code : 11082956

Catalog # : 02018OT3E256TC



Performance : 415 V 50 Hz 4P IE2

Rated current	: 29.2 A	Moment of inertia (J)	: 2.62 sq.ft.lb
LRC	: 6.4	Duty cycle	: Cont.(S1)
Rated torque	: 70.5 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 320 %	Temperature rise	: 80 K
Rated speed	: 1470 rpm	Design	: B

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

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# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

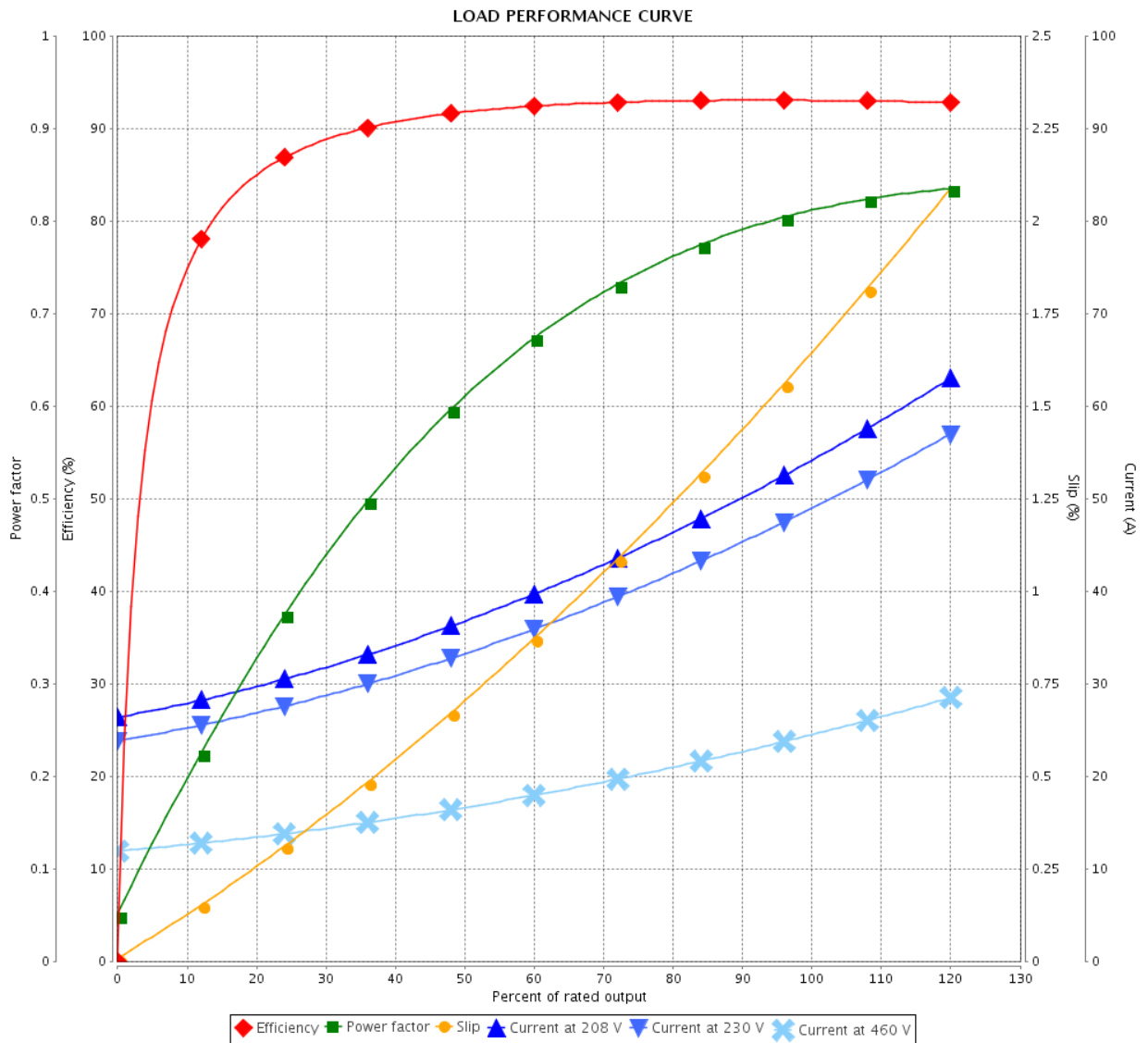


Customer : \_\_\_\_\_

Product line : ODP NEMA Premium Efficiency  
Three-Phase

Product code : 11082956

Catalog # : 02018OT3E256TC



Performance : 208-230/460 V 60 Hz 4P

Rated current : 55.3-49.4/24.7 A  
 LRC : 6.3  
 Rated torque : 58.5 ft.lb  
 Locked rotor torque : 260 %  
 Breakdown torque : 280 %  
 Rated speed : 1770 rpm

Moment of inertia (J) : 2.62 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

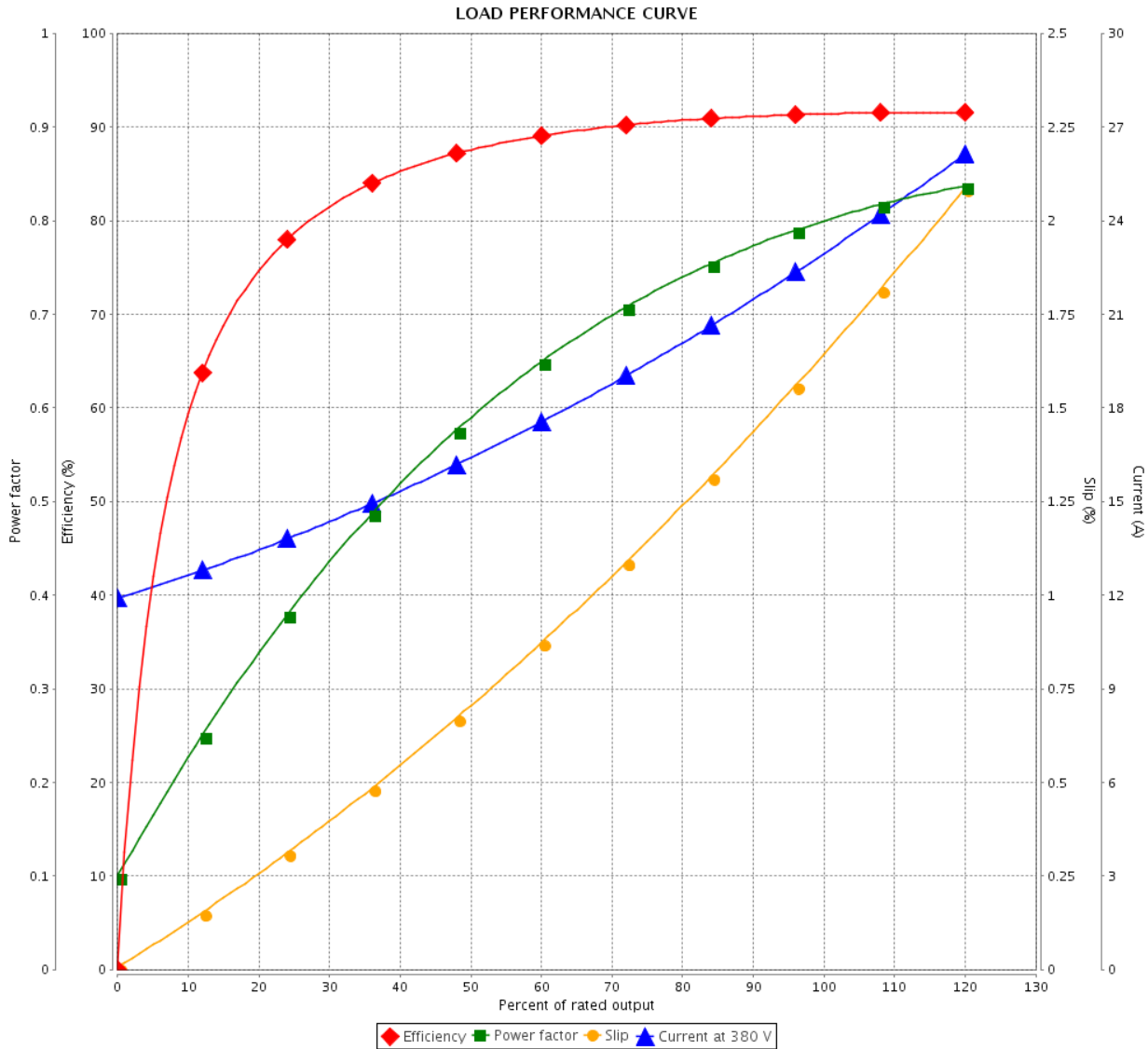


Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 11082956

Catalog # : 02018OT3E256TC



Performance : 380 V 50 Hz 4P IE3

Rated current : 23.4 A  
 LRC : 7.1  
 Rated torque : 52.7 ft.lb  
 Locked rotor torque : 229 %  
 Breakdown torque : 350 %  
 Rated speed : 1475 rpm

Moment of inertia (J) : 2.62 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

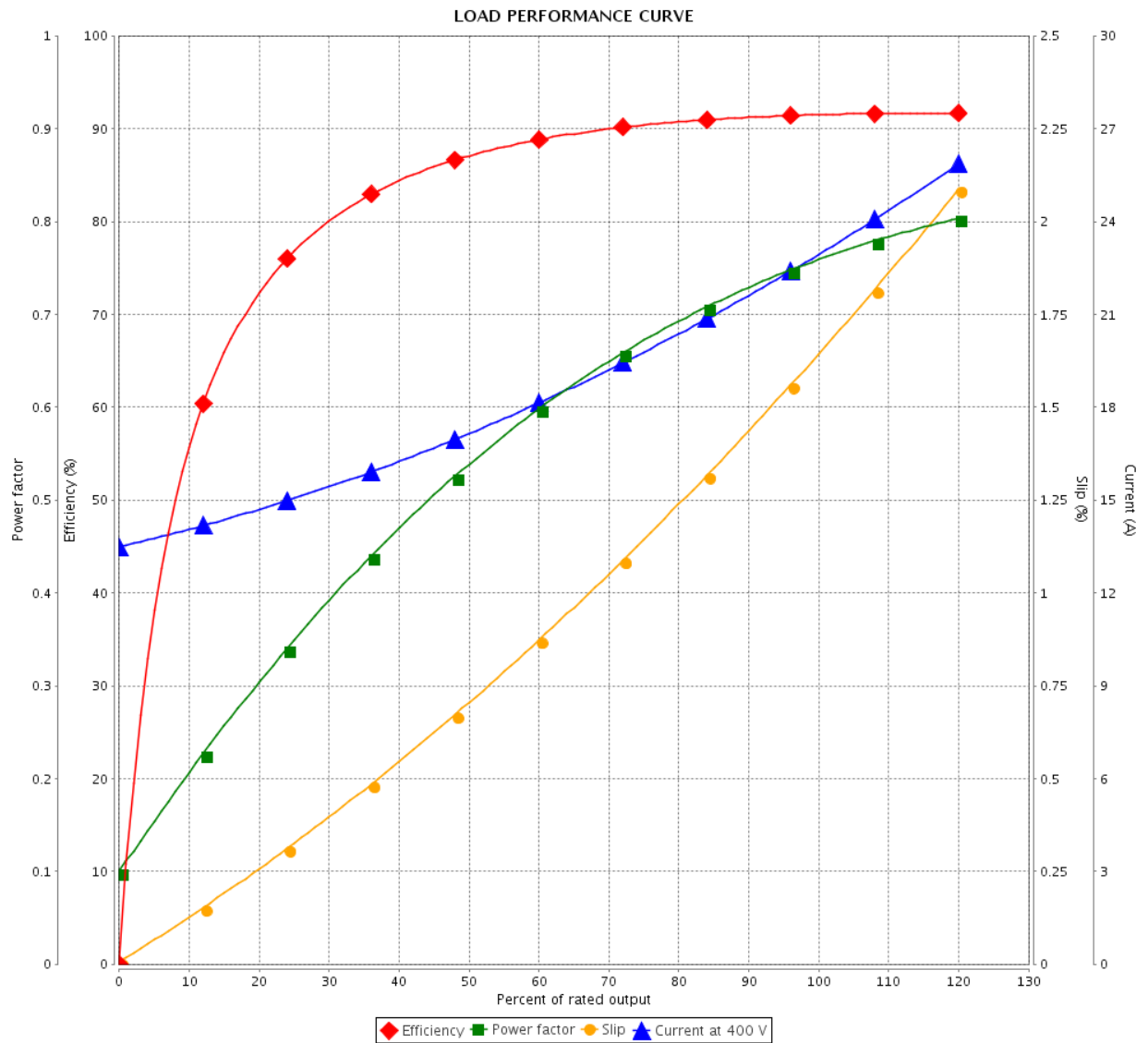


Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 11082956

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Performance : 400 V 50 Hz 4P IE3

Rated current : 23.4 A  
 LRC : 7.5  
 Rated torque : 52.7 ft.lb  
 Locked rotor torque : 260 %  
 Breakdown torque : 390 %  
 Rated speed : 1475 rpm

Moment of inertia (J) : 2.62 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

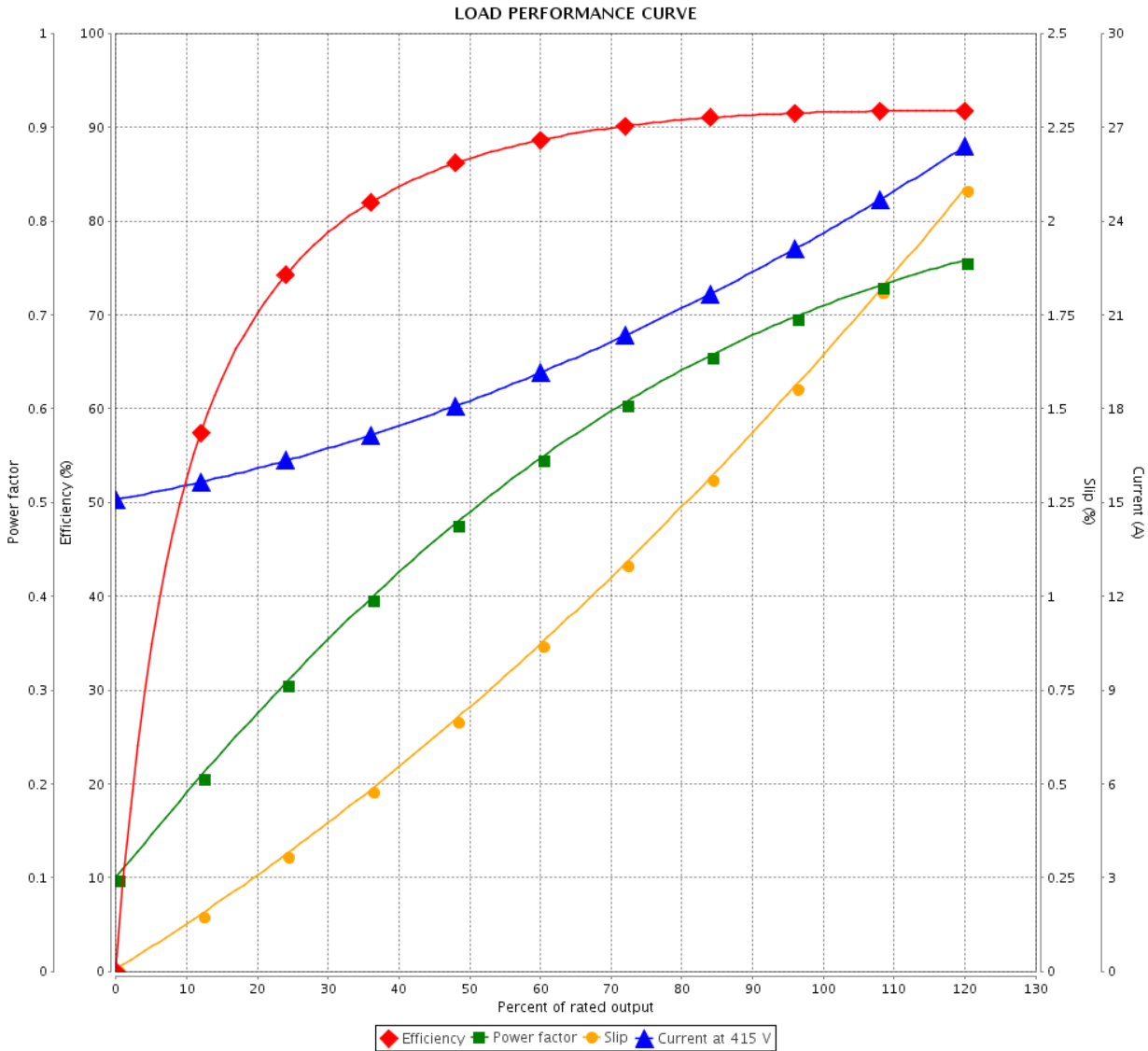


Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 11082956

Catalog # : 02018OT3E256TC



Performance : 415 V 50 Hz 4P IE3

Rated current : 24.1 A  
 LRC : 7.8  
 Rated torque : 52.7 ft.lb  
 Locked rotor torque : 270 %  
 Breakdown torque : 430 %  
 Rated speed : 1475 rpm

Moment of inertia (J) : 2.62 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

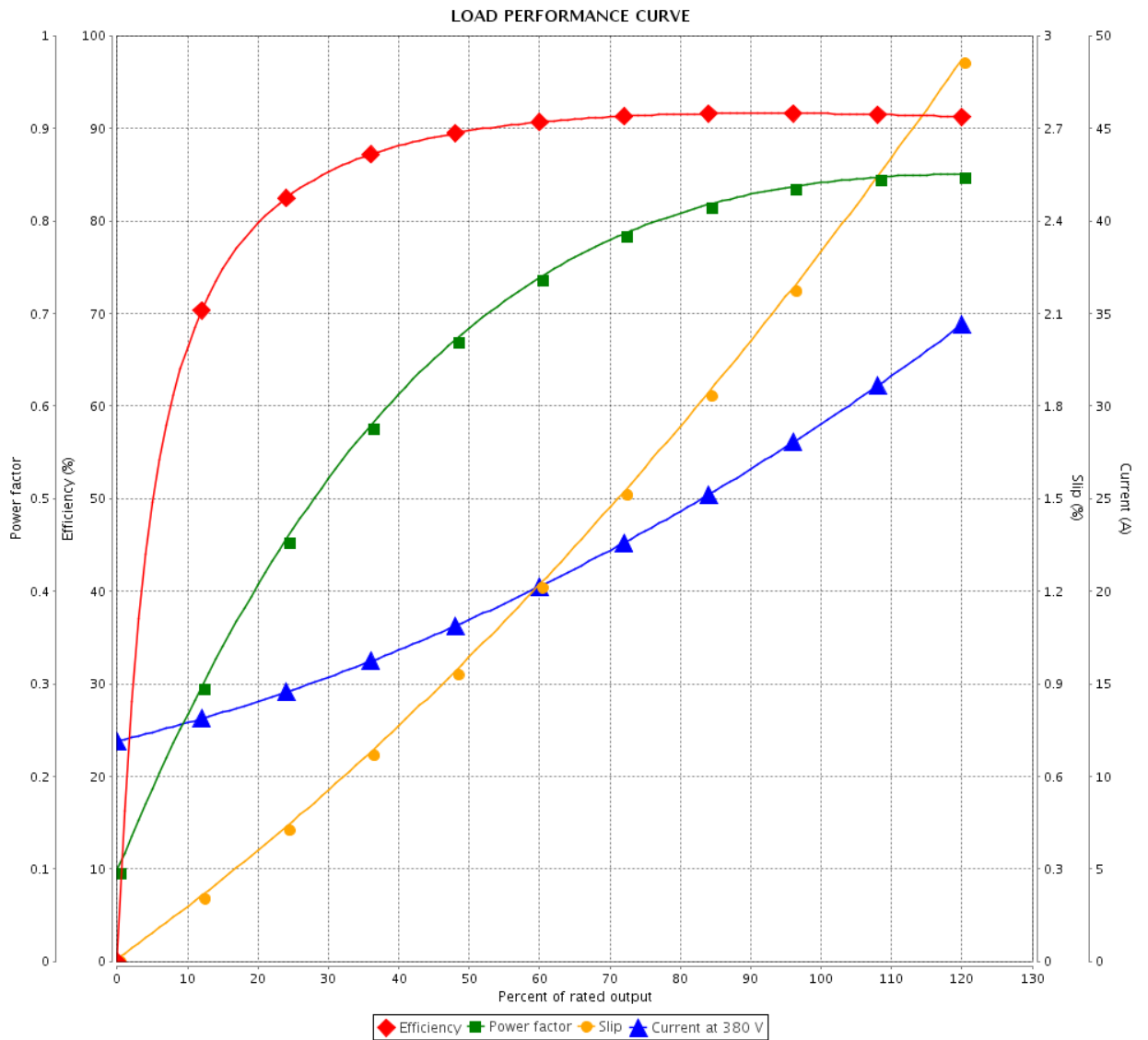


Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 11082956

Catalog # : 02018OT3E256TC



Performance : 380 V 50 Hz 4P IE2

Rated current : 29.6 A  
 LRC : 5.6  
 Rated torque : 70.7 ft.lb  
 Locked rotor torque : 170 %  
 Breakdown torque : 260 %  
 Rated speed : 1465 rpm

Moment of inertia (J) : 2.62 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

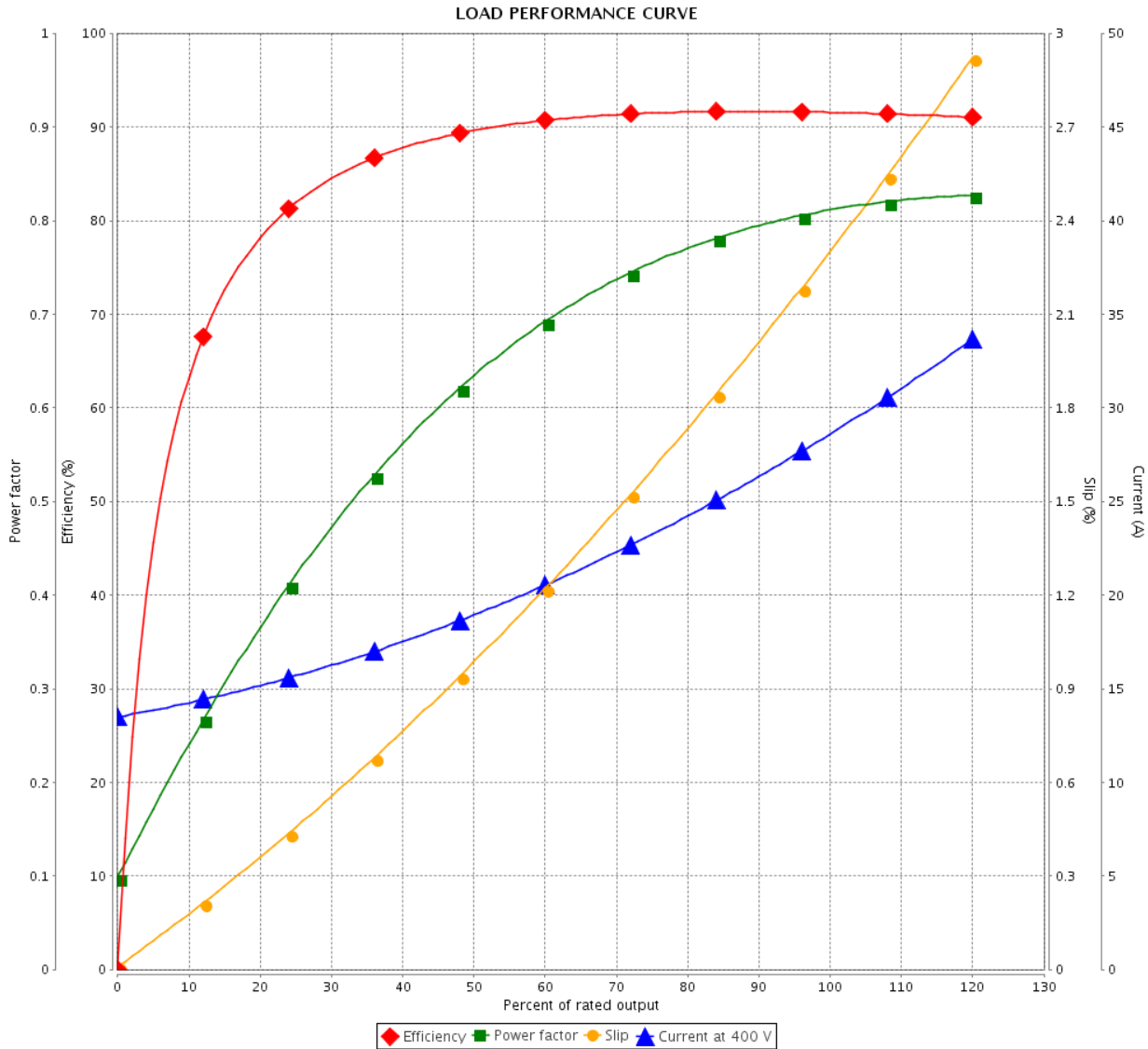


Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 11082956

Catalog # : 02018OT3E256TC



Performance : 400 V 50 Hz 4P IE2

Rated current : 29.1 A  
 LRC : 6.0  
 Rated torque : 70.7 ft.lb  
 Locked rotor torque : 190 %  
 Breakdown torque : 290 %  
 Rated speed : 1465 rpm

Moment of inertia (J) : 2.62 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

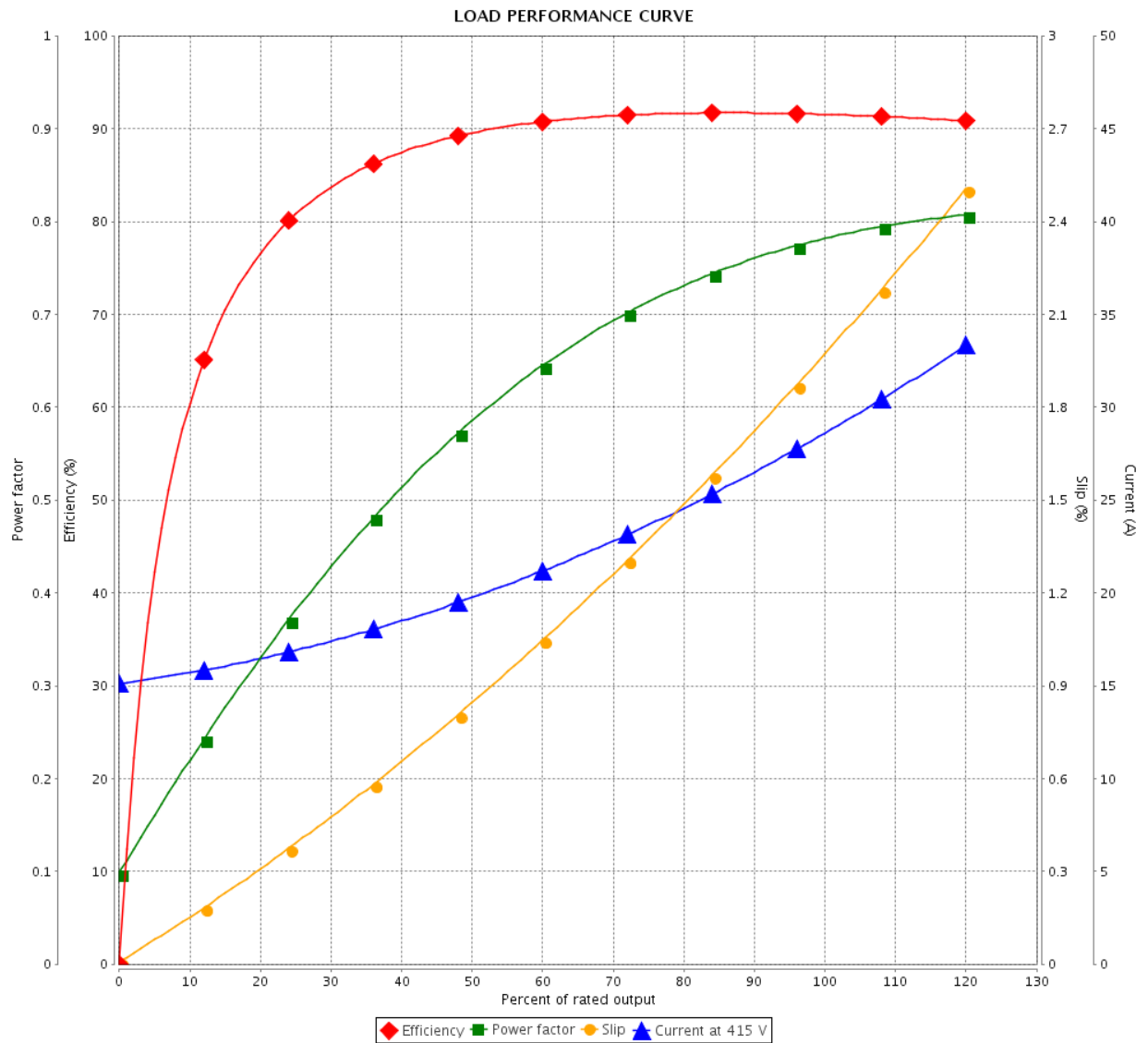


Customer : \_\_\_\_\_

Product line : ODP NEMA Premium Efficiency  
Three-Phase

Product code : 11082956

Catalog # : 02018OT3E256TC



Performance : 415 V 50 Hz 4P IE2

Rated current : 29.2 A  
 LRC : 6.4  
 Rated torque : 70.5 ft.lb  
 Locked rotor torque : 200 %  
 Breakdown torque : 320 %  
 Rated speed : 1470 rpm

Moment of inertia (J) : 2.62 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

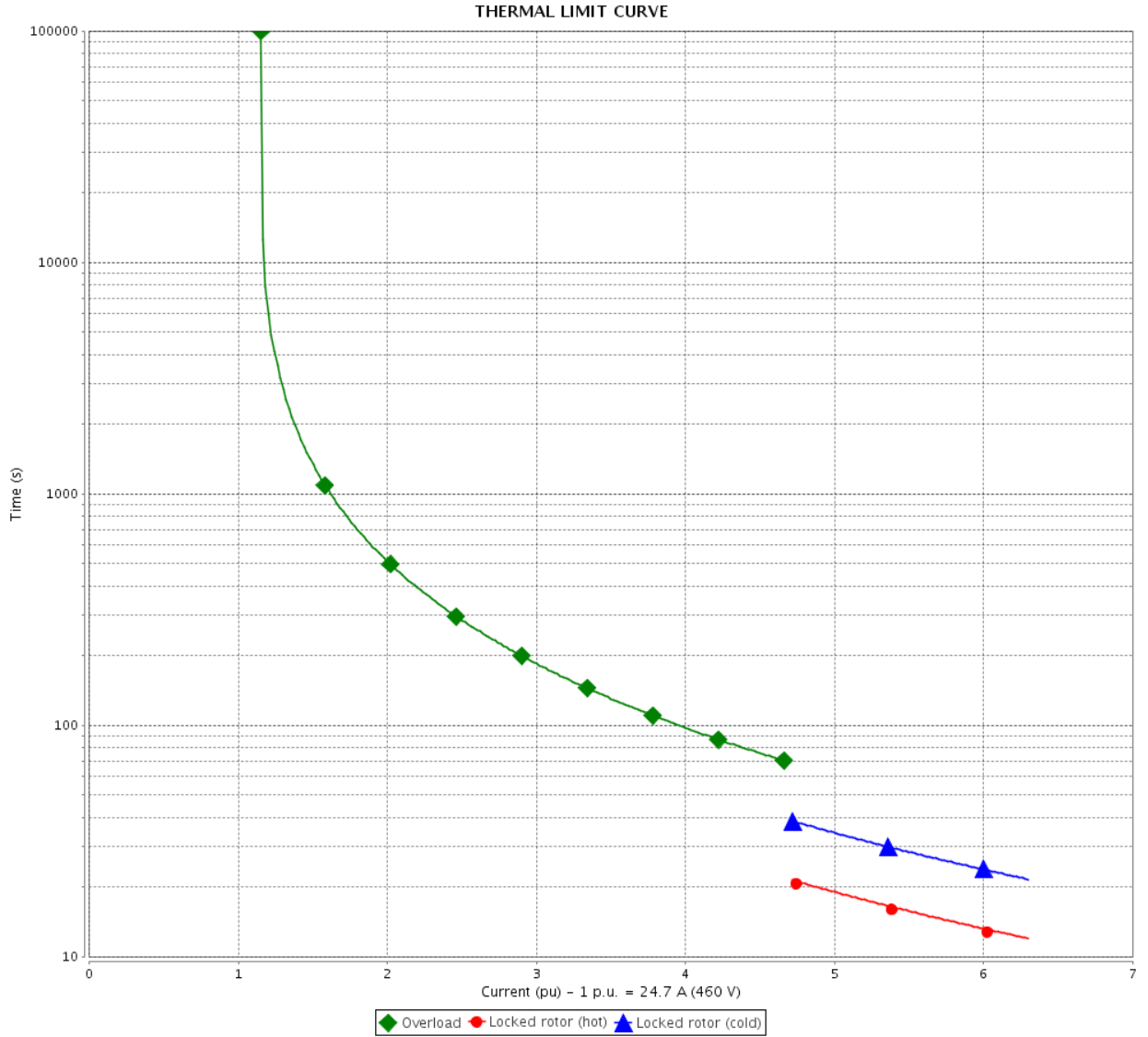
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# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



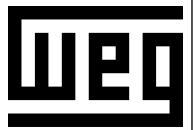
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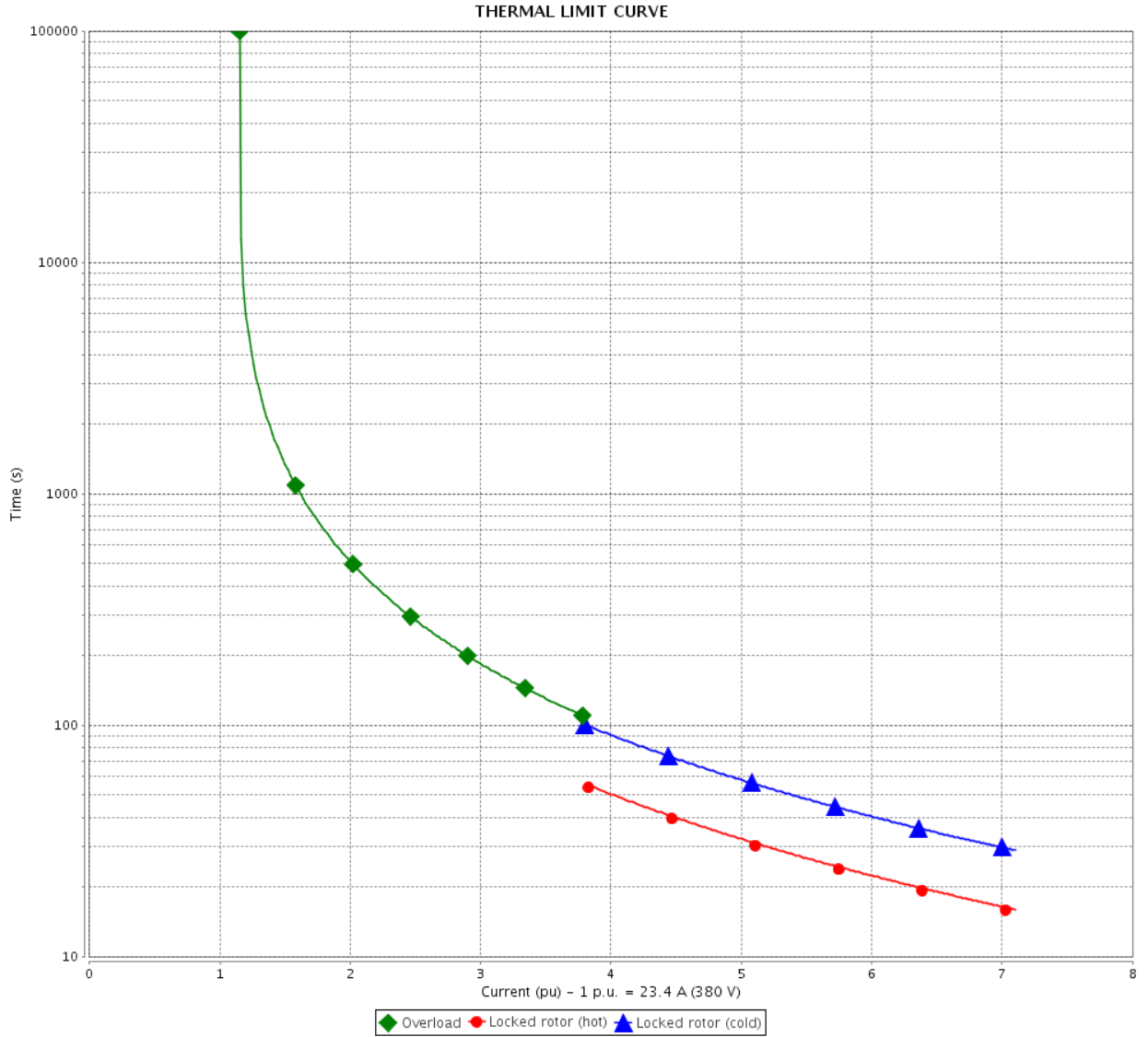
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# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



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



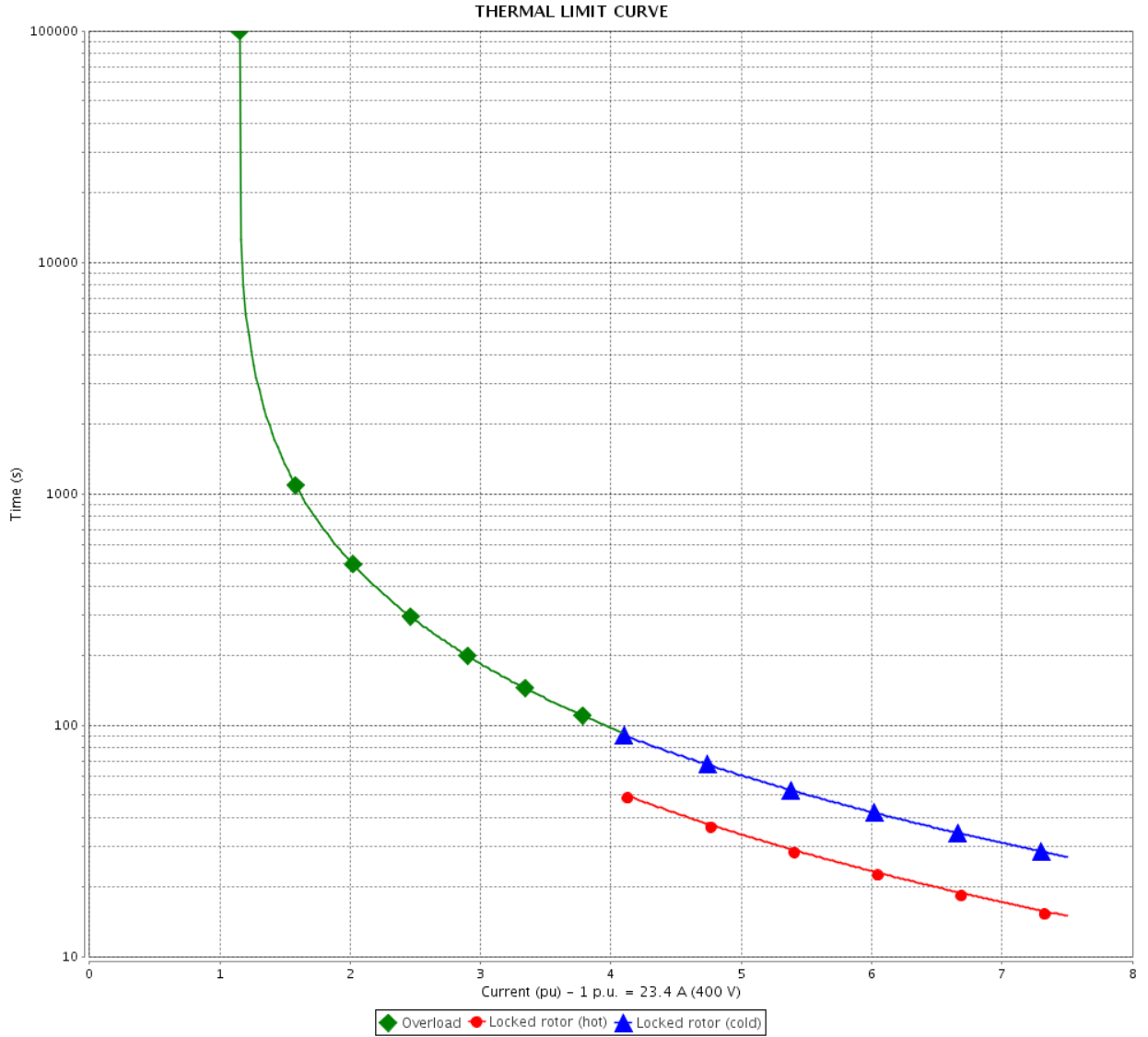
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# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



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



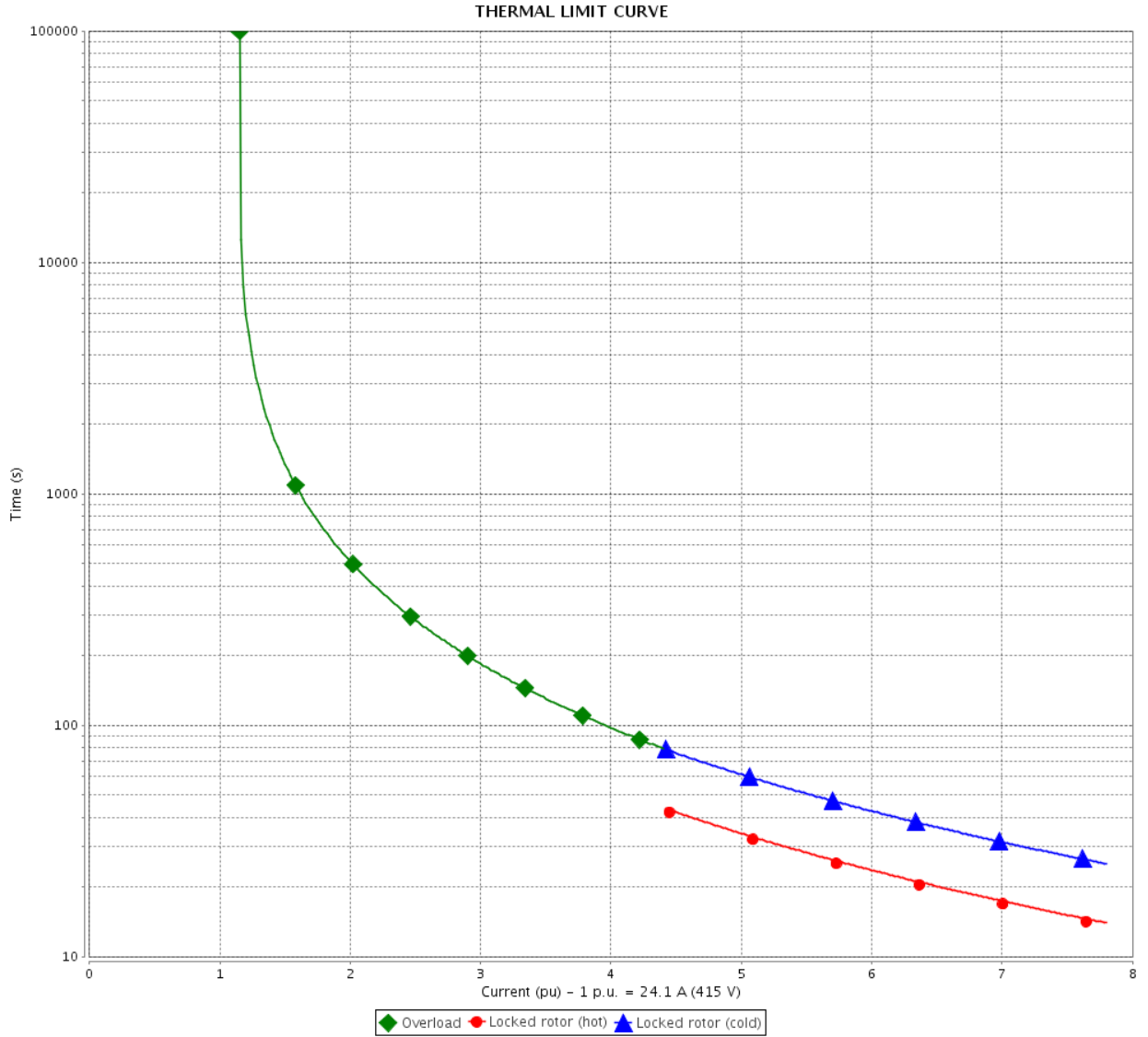
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# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



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



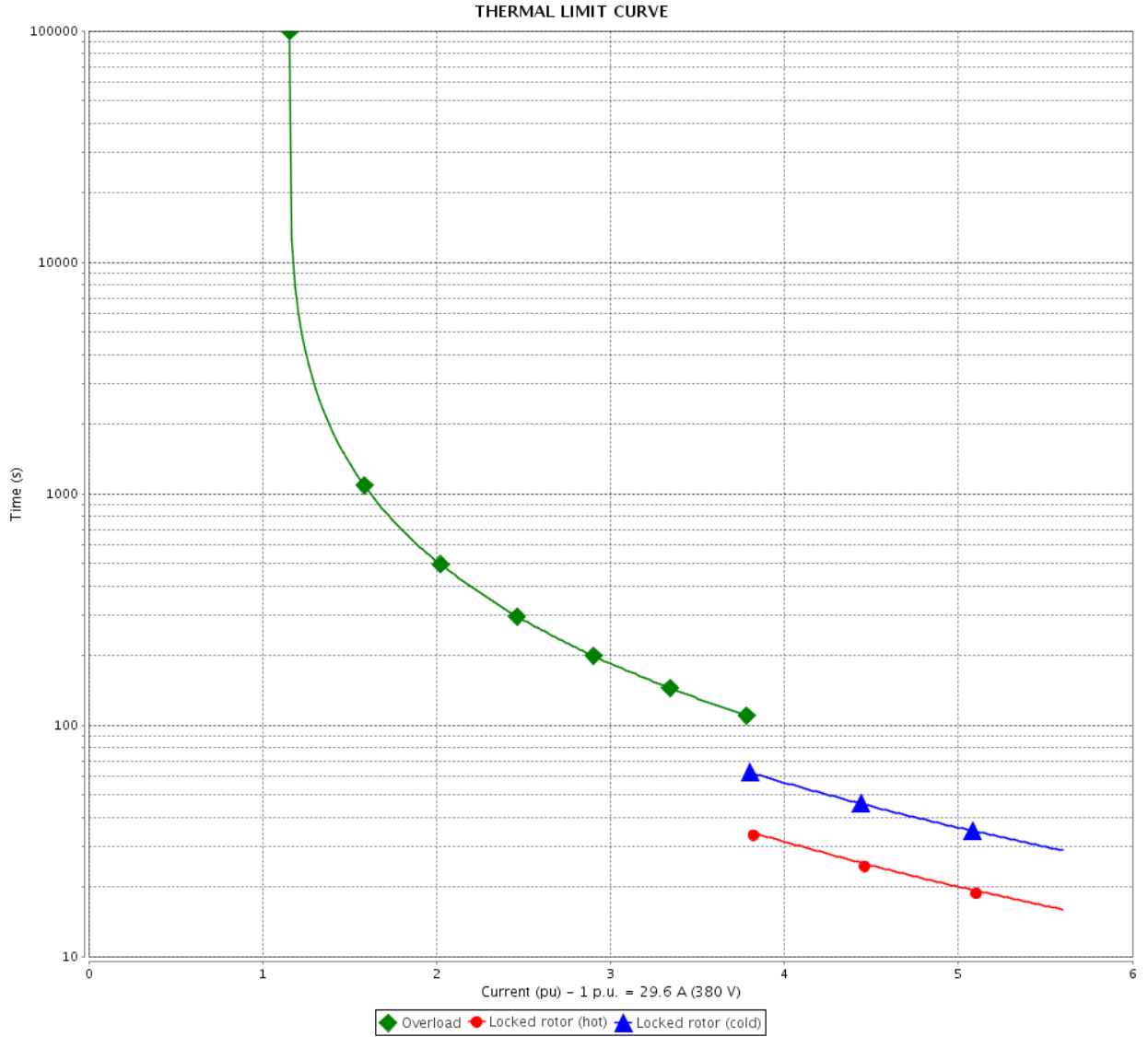
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# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



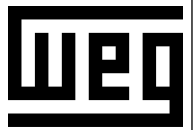
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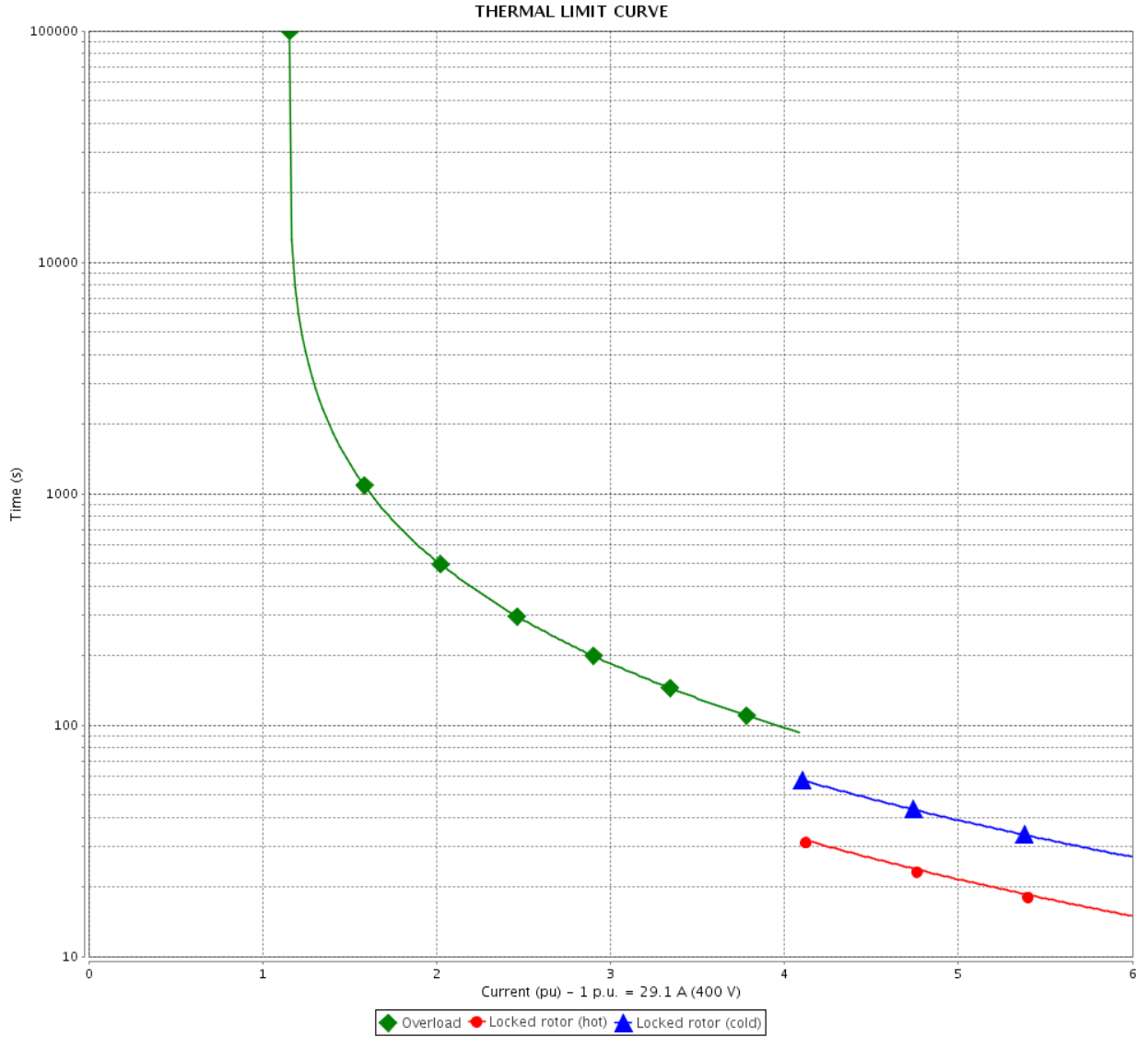
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# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



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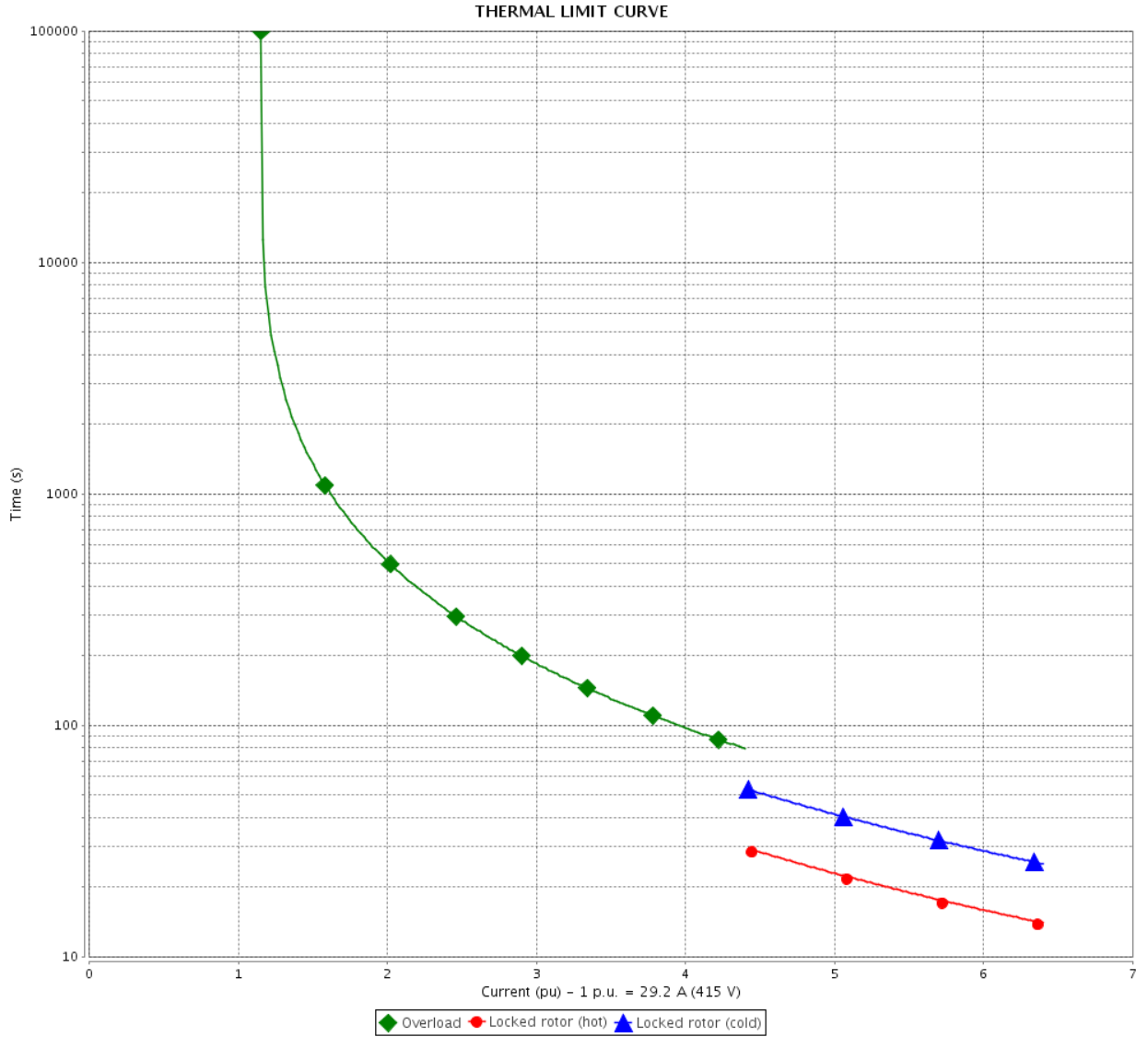
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# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



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



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# VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

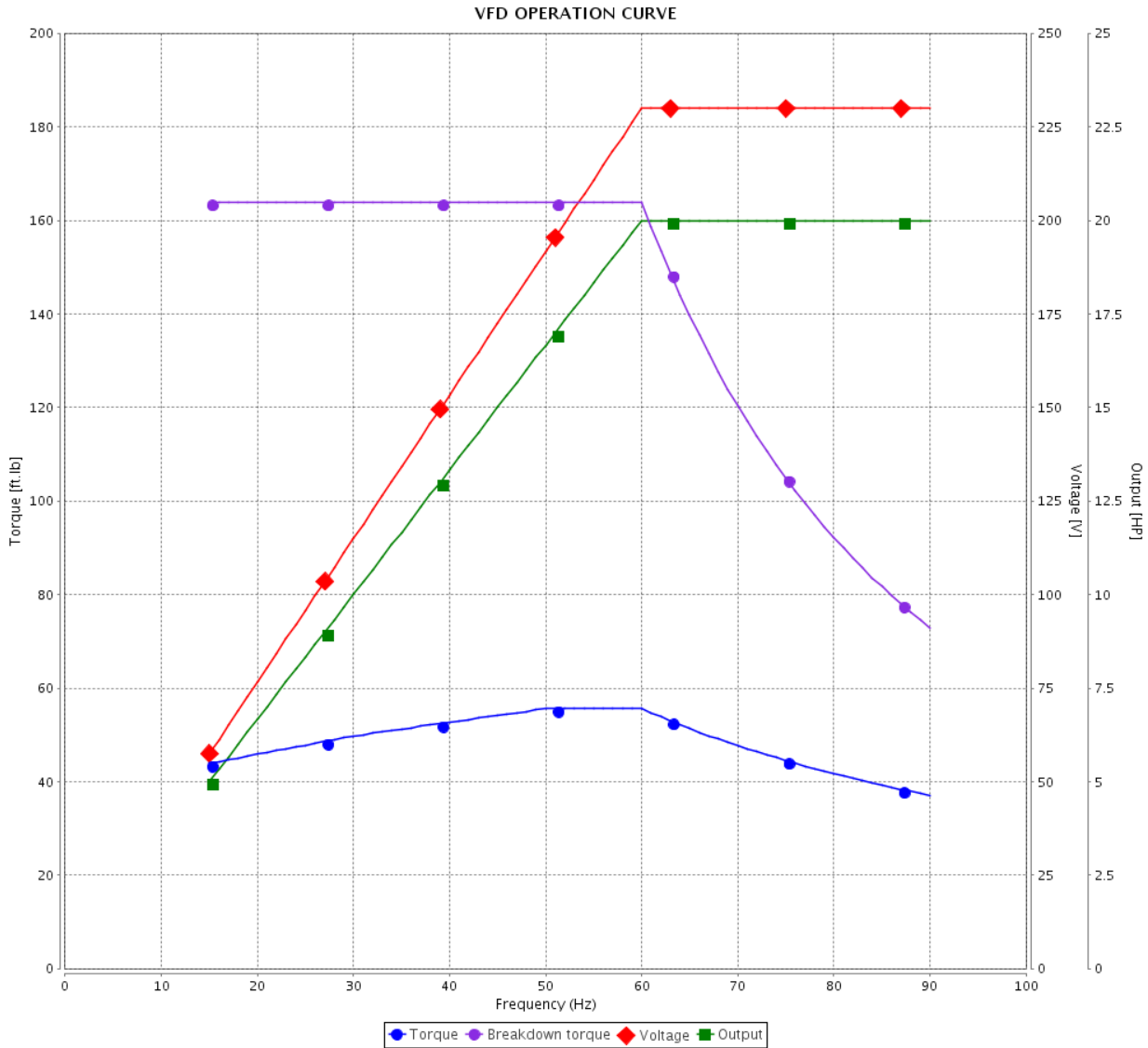


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Performance : 208-230/460 V 60 Hz 4P

Rated current : 55.3-49.4/24.7 A  
 LRC : 6.3  
 Rated torque : 58.5 ft.lb  
 Locked rotor torque : 260 %  
 Breakdown torque : 280 %  
 Rated speed : 1770 rpm

Moment of inertia (J) : 2.62 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

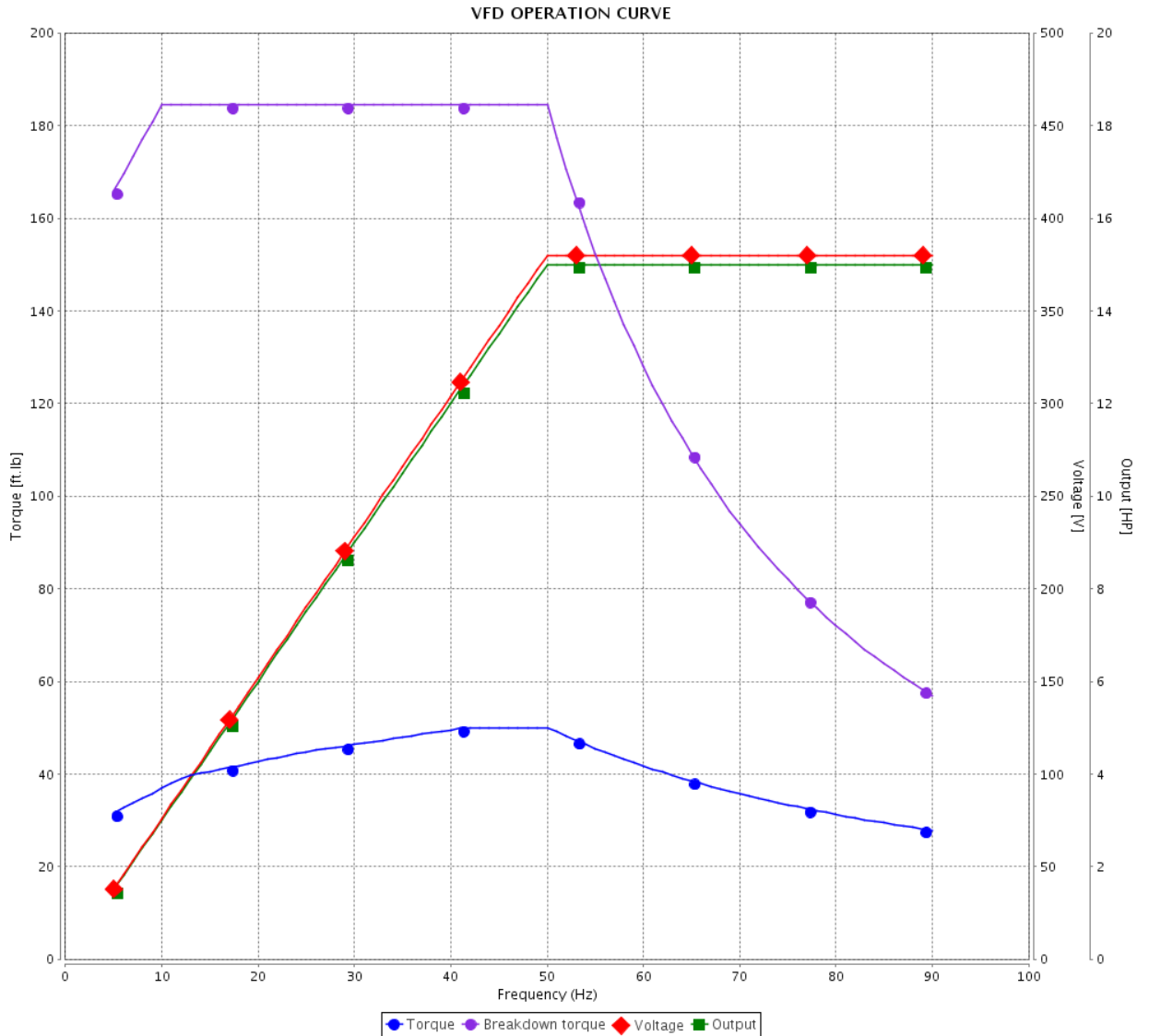


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Performance : 380 V 50 Hz 4P IE3

Rated current : 23.4 A  
LRC : 7.1  
Rated torque : 52.7 ft.lb  
Locked rotor torque : 229 %  
Breakdown torque : 350 %  
Rated speed : 1475 rpm

Moment of inertia (J) : 2.62 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

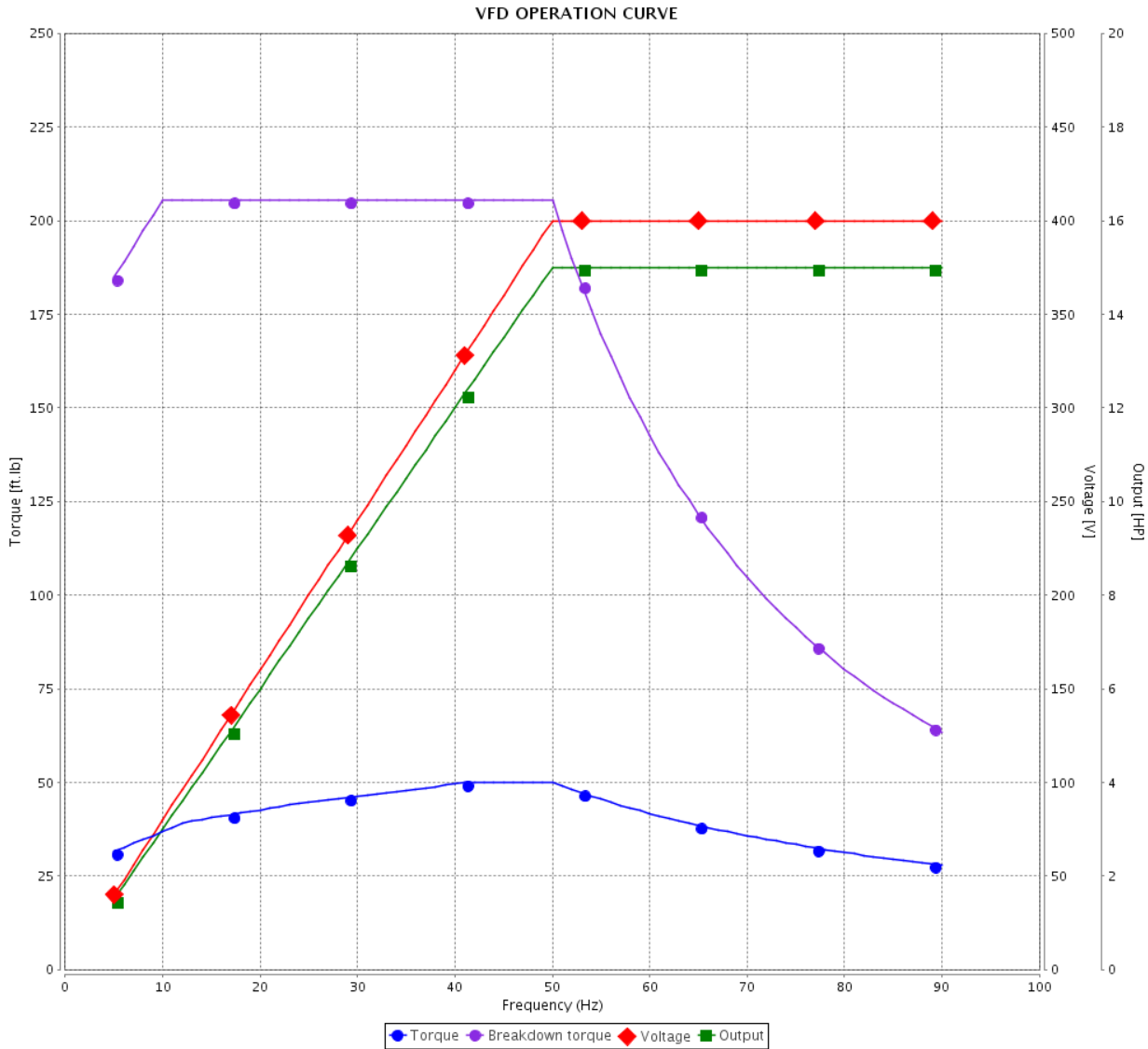


Customer :

Product line : ODP NEMA Premium Efficiency  
Three-Phase

Product code : 11082956

Catalog # : 02018OT3E256TC



Performance : 400 V 50 Hz 4P IE3

Rated current : 23.4 A  
LRC : 7.5  
Rated torque : 52.7 ft.lb  
Locked rotor torque : 260 %  
Breakdown torque : 390 %  
Rated speed : 1475 rpm

Moment of inertia (J) : 2.62 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 32 / 36	Revision
Checked by				
Date	07/11/2019			

# VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

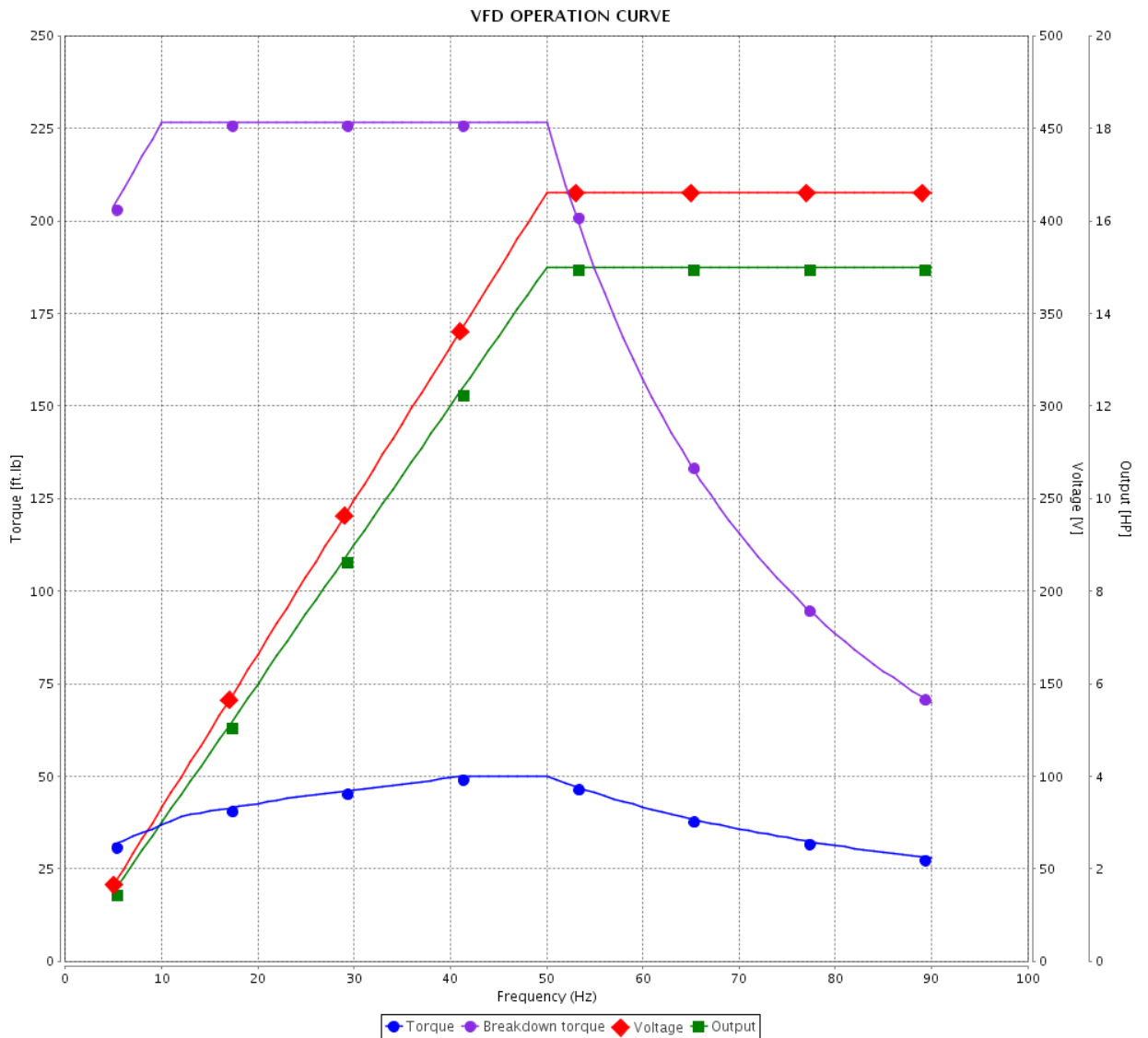


Customer :

Product line : ODP NEMA Premium Efficiency  
Three-Phase

Product code : 11082956

Catalog # : 02018OT3E256TC



Performance : 415 V 50 Hz 4P IE3

Rated current : 24.1 A  
 LRC : 7.8  
 Rated torque : 52.7 ft.lb  
 Locked rotor torque : 270 %  
 Breakdown torque : 430 %  
 Rated speed : 1475 rpm

Moment of inertia (J) : 2.62 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

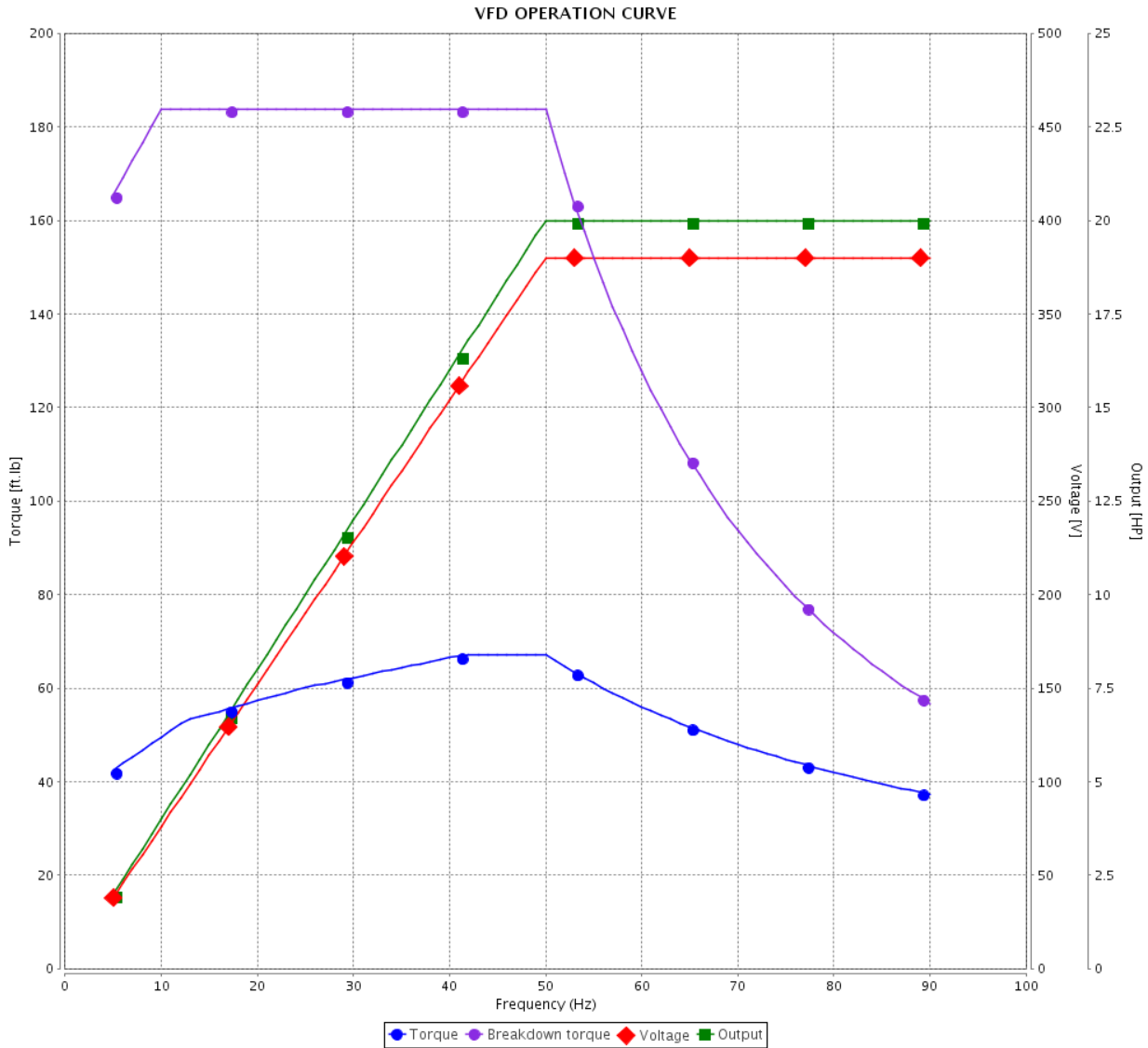


Customer :

Product line : ODP NEMA Premium Efficiency  
Three-Phase

Product code : 11082956

Catalog # : 02018OT3E256TC



Performance : 380 V 50 Hz 4P IE2

Rated current : 29.6 A  
LRC : 5.6  
Rated torque : 70.7 ft.lb  
Locked rotor torque : 170 %  
Breakdown torque : 260 %  
Rated speed : 1465 rpm

Moment of inertia (J) : 2.62 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

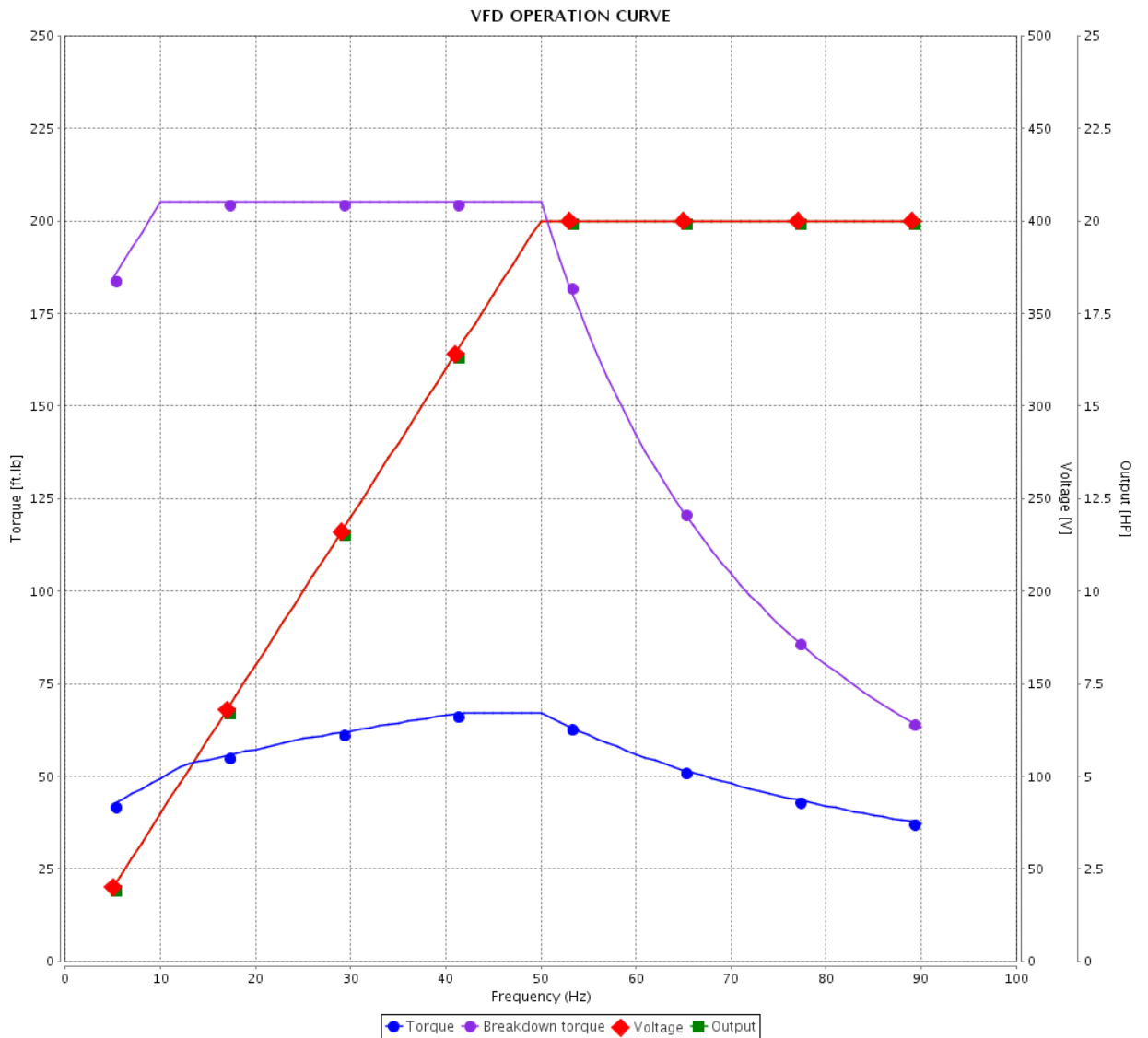


Customer :

Product line : ODP NEMA Premium Efficiency  
Three-Phase

Product code : 11082956

Catalog # : 02018OT3E256TC



Performance : 400 V 50 Hz 4P IE2

Rated current : 29.1 A  
LRC : 6.0  
Rated torque : 70.7 ft.lb  
Locked rotor torque : 190 %  
Breakdown torque : 290 %  
Rated speed : 1465 rpm

Moment of inertia (J) : 2.62 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

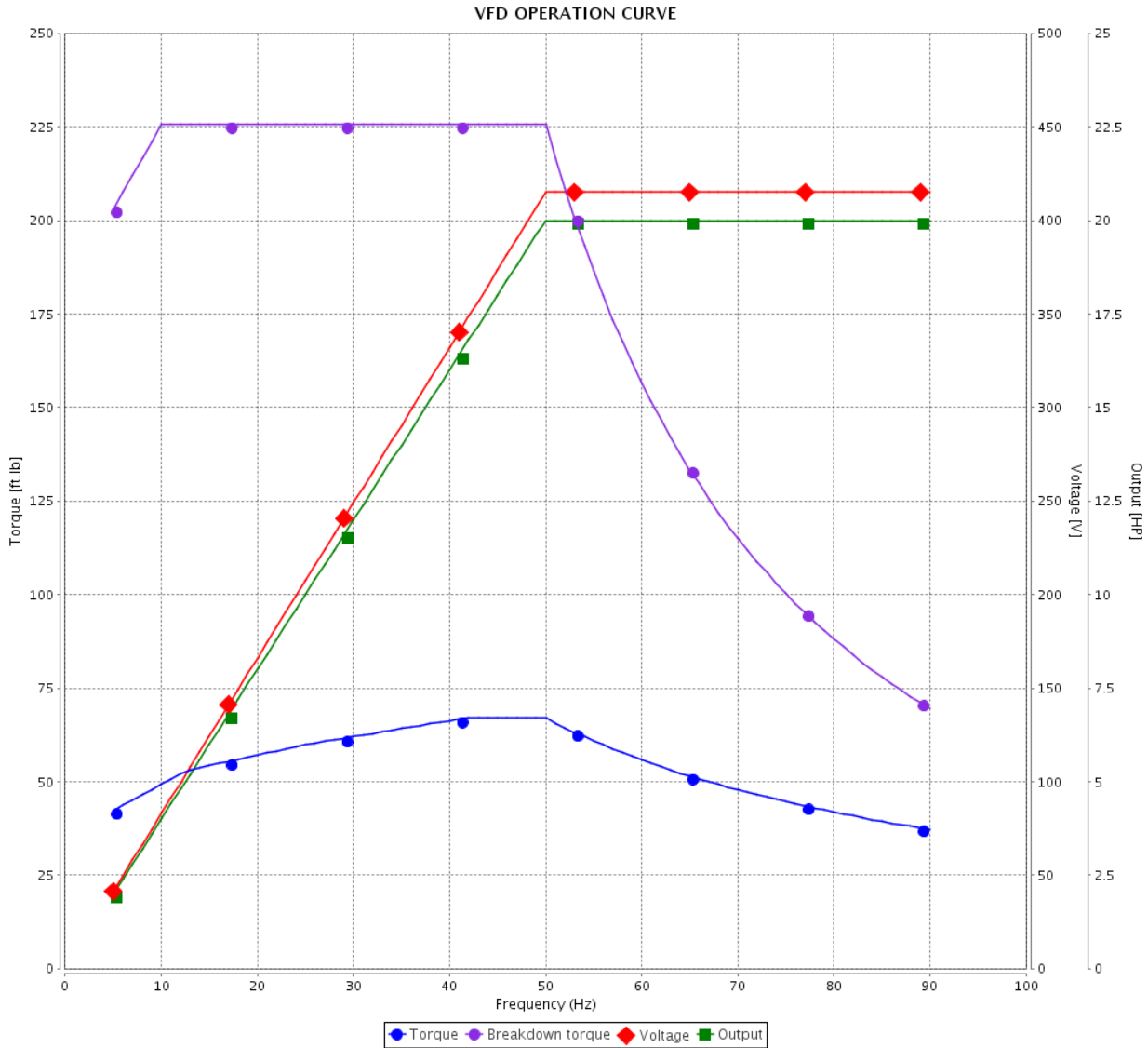


Customer :

Product line : ODP NEMA Premium Efficiency  
Three-Phase

Product code : 11082956

Catalog # : 02018OT3E256TC



Performance : 415 V 50 Hz 4P IE2

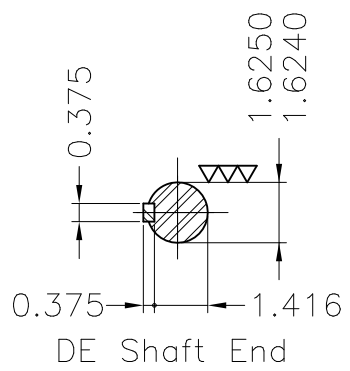
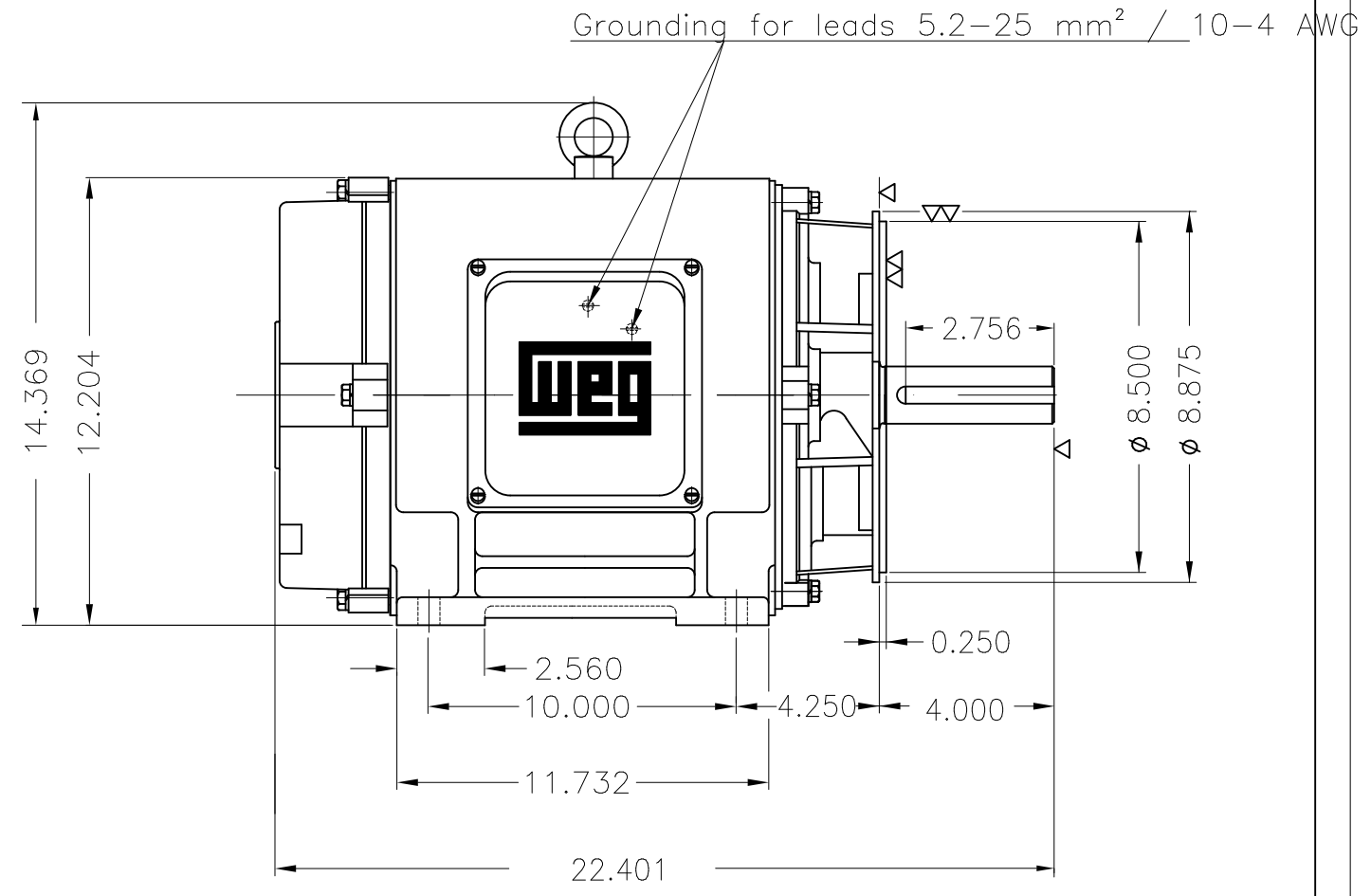
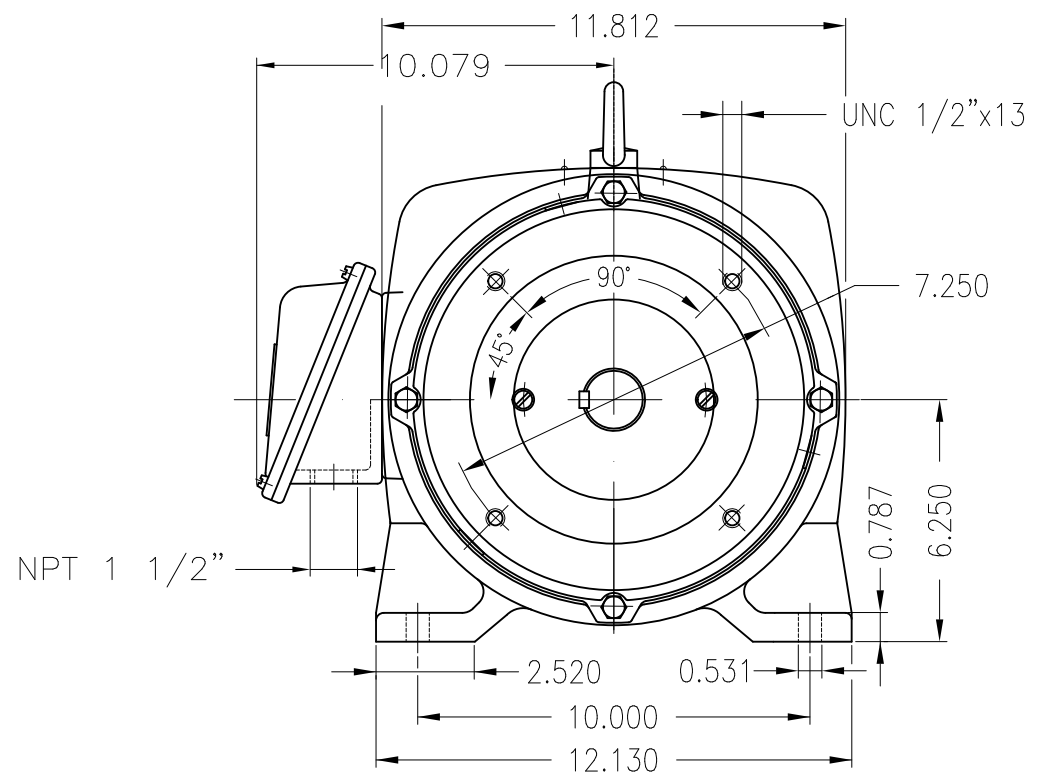
Rated current : 29.2 A  
LRC : 6.4  
Rated torque : 70.5 ft.lb  
Locked rotor torque : 200 %  
Breakdown torque : 320 %  
Rated speed : 1470 rpm

Moment of inertia (J) : 2.62 sq.ft.lb  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.15  
Temperature rise : 80 K  
Design : B

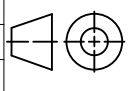
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Dimensões em polegada  
Dimensions in inches

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: 11082956							
CHECKED									
RELEASED									
REL DT	07.11.2019	WMO	Jaragua do Sul	Product Engineering	SHEET	1 / 1			

20 HP 04 Poles 60Hz

A

