

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer							
Product line	: ODP NEMA Premium Efficiency Three-Phase			Product code :	11363549		
				Catalog # :	03036OT3E284TSC		
Frame	: 284TSC			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>	: 336 lb		
Protection degree	: IP23			Moment of inertia (J)	: 1.89 sq.ft.lb		
Design	: B						
Output [HP]	30	25	25	25	30	30	30
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]	76.7-69.4/34.7	34.6	34.0	34.0	41.7	40.4	39.7
L. R. Amperes [A]	491-444/222	232	241	258	234	242	258
LRC [A]	6.4x(Code G)	6.7x(Code G)	7.1x(Code H)	7.6x(Code J)	5.6x(Code F)	6.0x(Code F)	6.5x(Code G)
No load current [A]	17.2-20.0/10.0	9.60	11.0	11.5	9.60	11.0	11.5
Rated speed [RPM]	3545	2945	2950	2955	2925	2935	2945
Slip [%]	1.53	1.83	1.67	1.50	2.50	2.17	1.83
Rated torque [ft.lb]	43.8	44.0	43.9	43.8	53.1	53.0	52.8
Locked rotor torque [%]	220	190	210	229	160	180	200
Breakdown torque [%]	280	250	270	290	210	229	250
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	18s (cold) 10s (hot)	23s (cold) 13s (hot)	21s (cold) 12s (hot)	19s (cold) 11s (hot)	23s (cold) 13s (hot)	21s (cold) 12s (hot)	19s (cold) 11s (hot)
Noise level <sup>2</sup>	72.0 dB(A)						
Efficiency (%)	25%	92.8	88.3	88.3	89.6	90.4	91.4
	50%	92.4	89.8	89.7	90.3	90.8	91.6
	75%	93.0	90.9	91.0	91.8	90.8	91.6
	100%	92.4	92.4	92.4	92.4	91.0	91.7
Power Factor	25%	0.53	0.55	0.49	0.44	0.60	0.50
	50%	0.77	0.77	0.72	0.66	0.82	0.71
	75%	0.84	0.85	0.81	0.77	0.86	0.81
	100%	0.86	0.88	0.85	0.82	0.88	0.84
Bearing type	: <u>Drive end</u> 6311 Z C3 <u>Non drive end</u> 6211 Z C3		Foundation loads				
Sealing	: Without Without		Max. traction : 415 lb				
	: Bearing Seal Bearing Seal		Max. compression : 751 lb				
Lubrication interval	: 20000 h 20000 h						
Lubricant amount	: 18 g 11 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



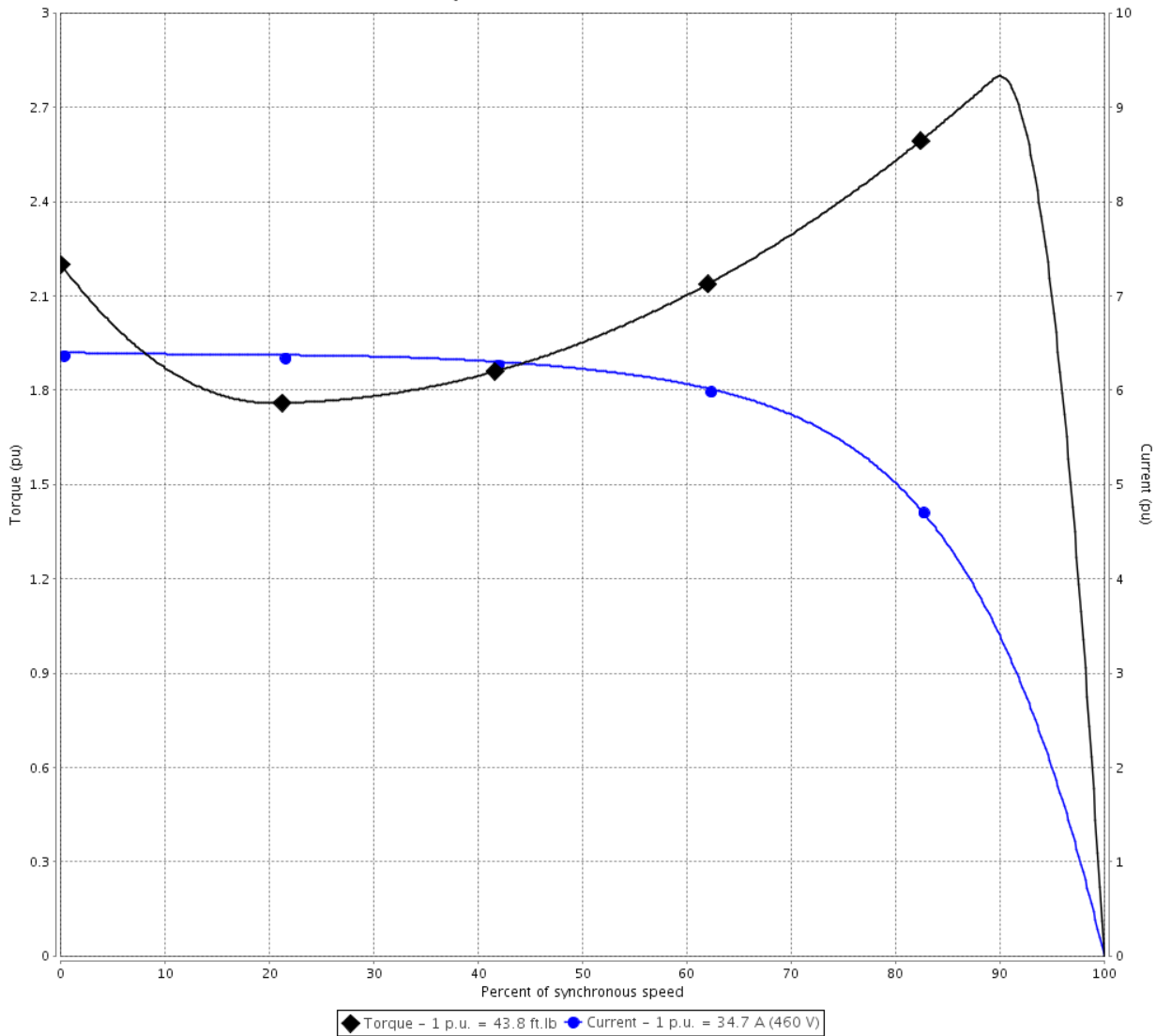
Customer :

Product line : ODP NEMA Premium Efficiency  
Three-Phase

Product code : 11363549

Catalog # : 030360T3E284TSC

TORQUE AND CURRENT VS SPEED CURVE



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

Rated current	: 76.7-69.4/34.7 A	Moment of inertia (J)	: 1.89 sq.ft.lb
LRC	: 6.4	Duty cycle	: Cont.(S1)
Rated torque	: 43.8 ft.lb	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.15
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 3545 rpm	Design	: B

Locked rotor time : 18s (cold) 10s (hot)

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# TORQUE AND CURRENT VS SPEED CURVE



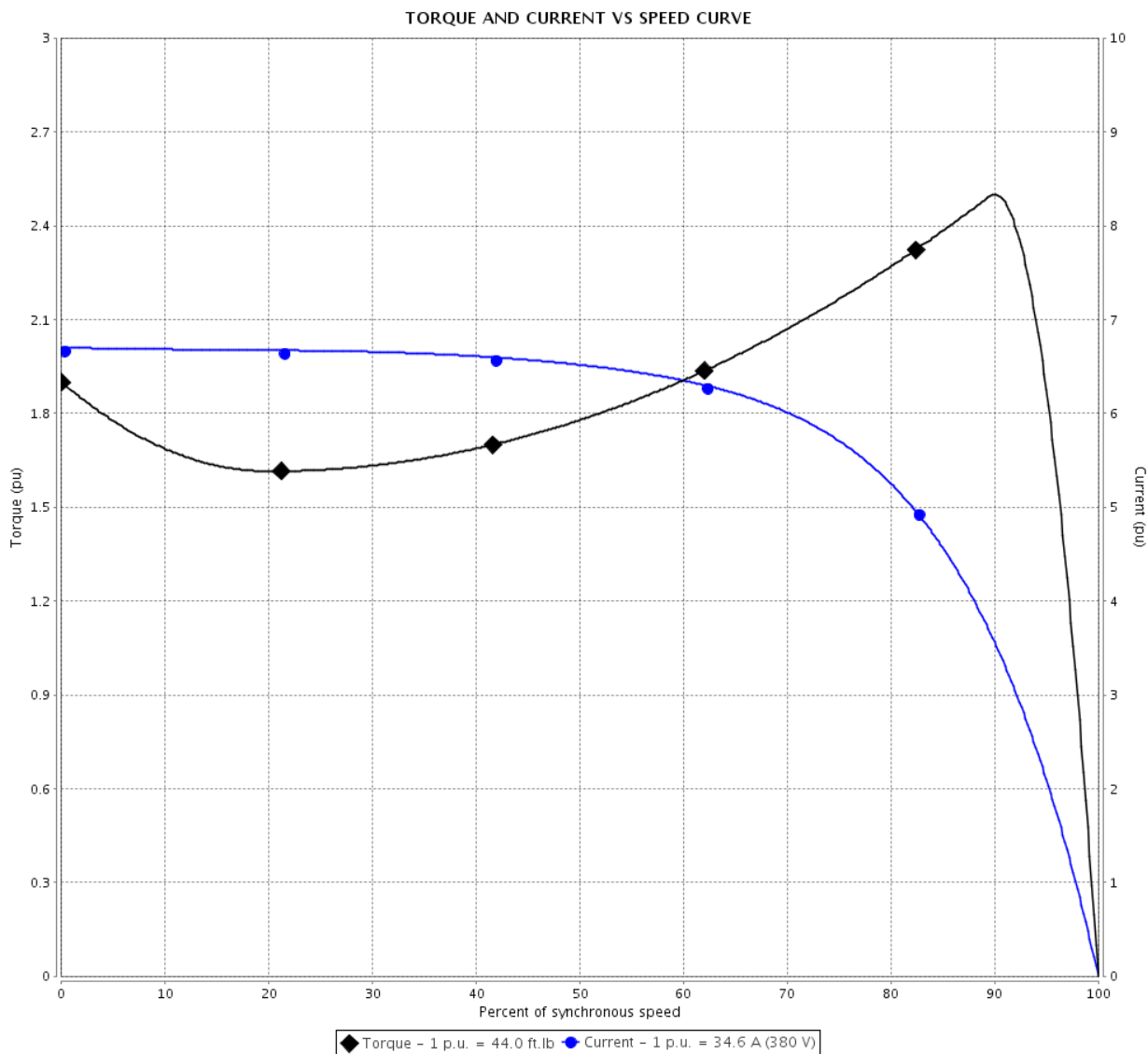
## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : ODP NEMA Premium Efficiency  
Three-Phase

Product code : 11363549

Catalog # : 03036OT3E284TSC



Performance : 380 V 50 Hz 2P IE3

Rated current	: 34.6 A	Moment of inertia (J)	: 1.89 sq.ft.lb
LRC	: 6.7	Duty cycle	: Cont.(S1)
Rated torque	: 44.0 ft.lb	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.15
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 2945 rpm	Design	: B

Locked rotor time : 23s (cold) 13s (hot)

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# TORQUE AND CURRENT VS SPEED CURVE

## Three Phase Induction Motor - Squirrel Cage



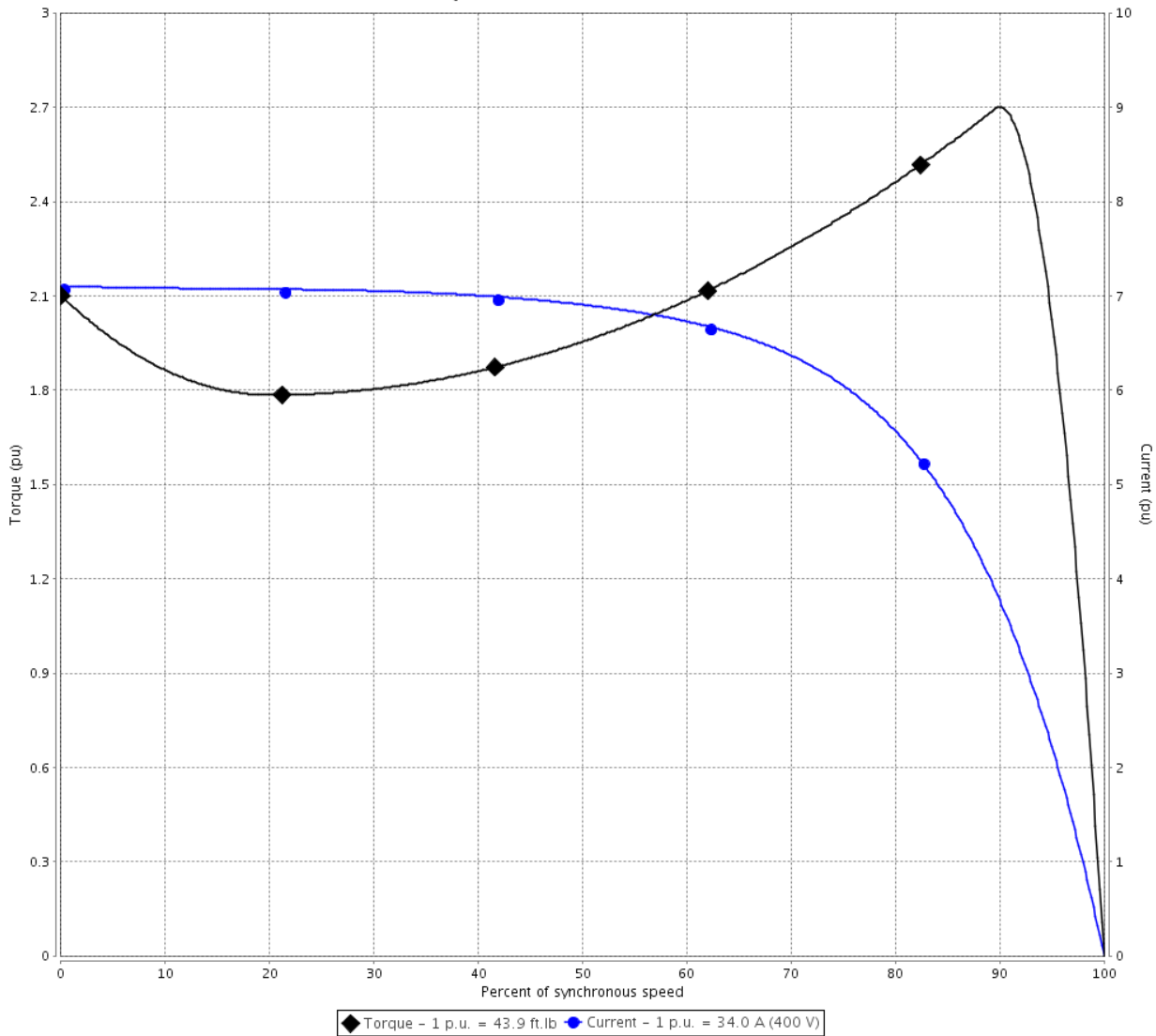
Customer :

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Three-Phase

Product code : 11363549

Catalog # : 030360T3E284TSC

TORQUE AND CURRENT VS SPEED CURVE



Performance : 400 V 50 Hz 2P IE3

Rated current	: 34.0 A	Moment of inertia (J)	: 1.89 sq.ft.lb
LRC	: 7.1	Duty cycle	: Cont.(S1)
Rated torque	: 43.9 ft.lb	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.15
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 2950 rpm	Design	: B

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

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# TORQUE AND CURRENT VS SPEED CURVE



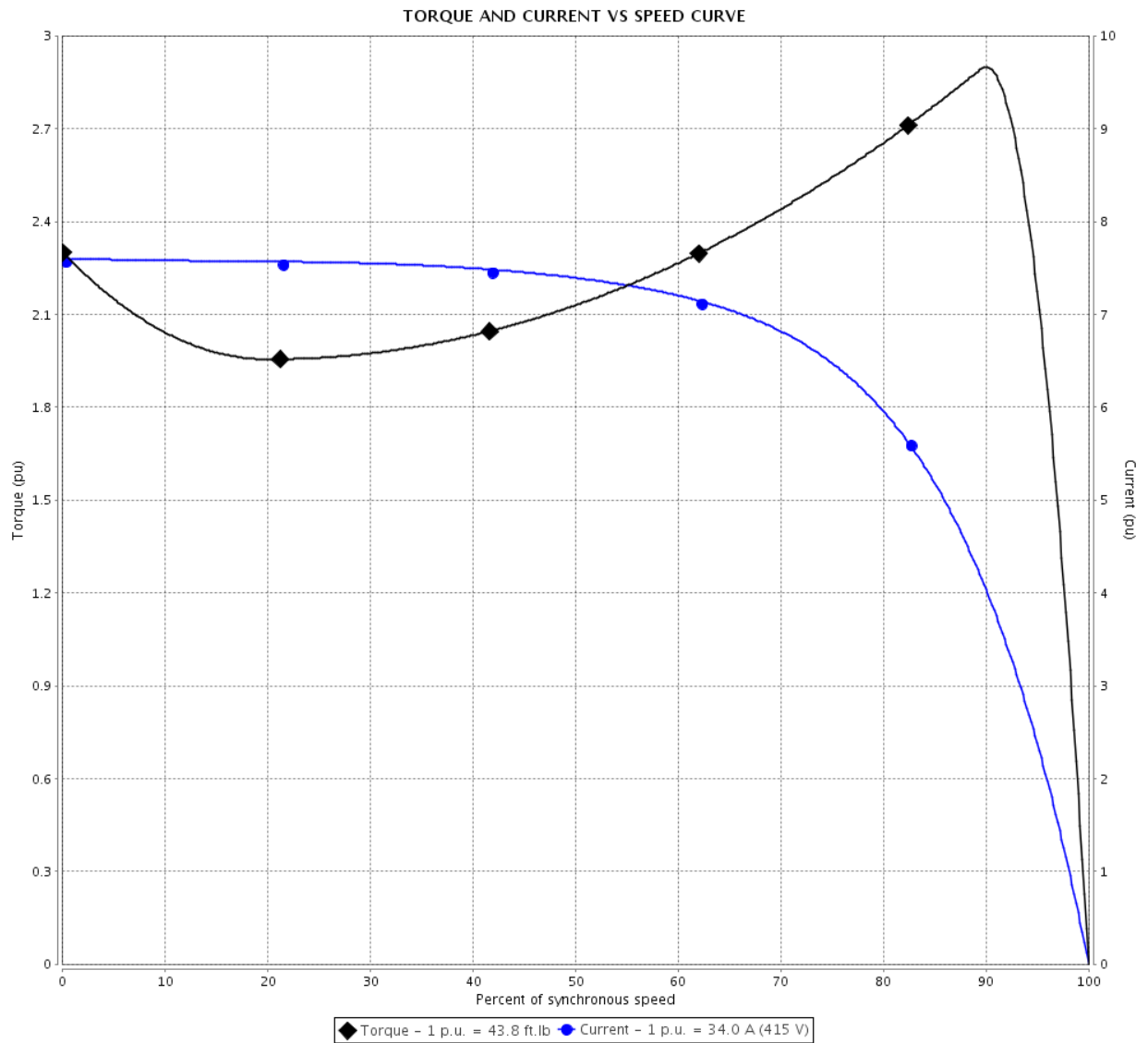
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Three-Phase

Product code : 11363549

Catalog # : 03036OT3E284TSC



Performance : 415 V 50 Hz 2P IE3

Rated current	: 34.0 A	Moment of inertia (J)	: 1.89 sq.ft.lb
LRC	: 7.6	Duty cycle	: Cont.(S1)
Rated torque	: 43.8 ft.lb	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.15
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 2955 rpm	Design	: B

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

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# TORQUE AND CURRENT VS SPEED CURVE

## Three Phase Induction Motor - Squirrel Cage



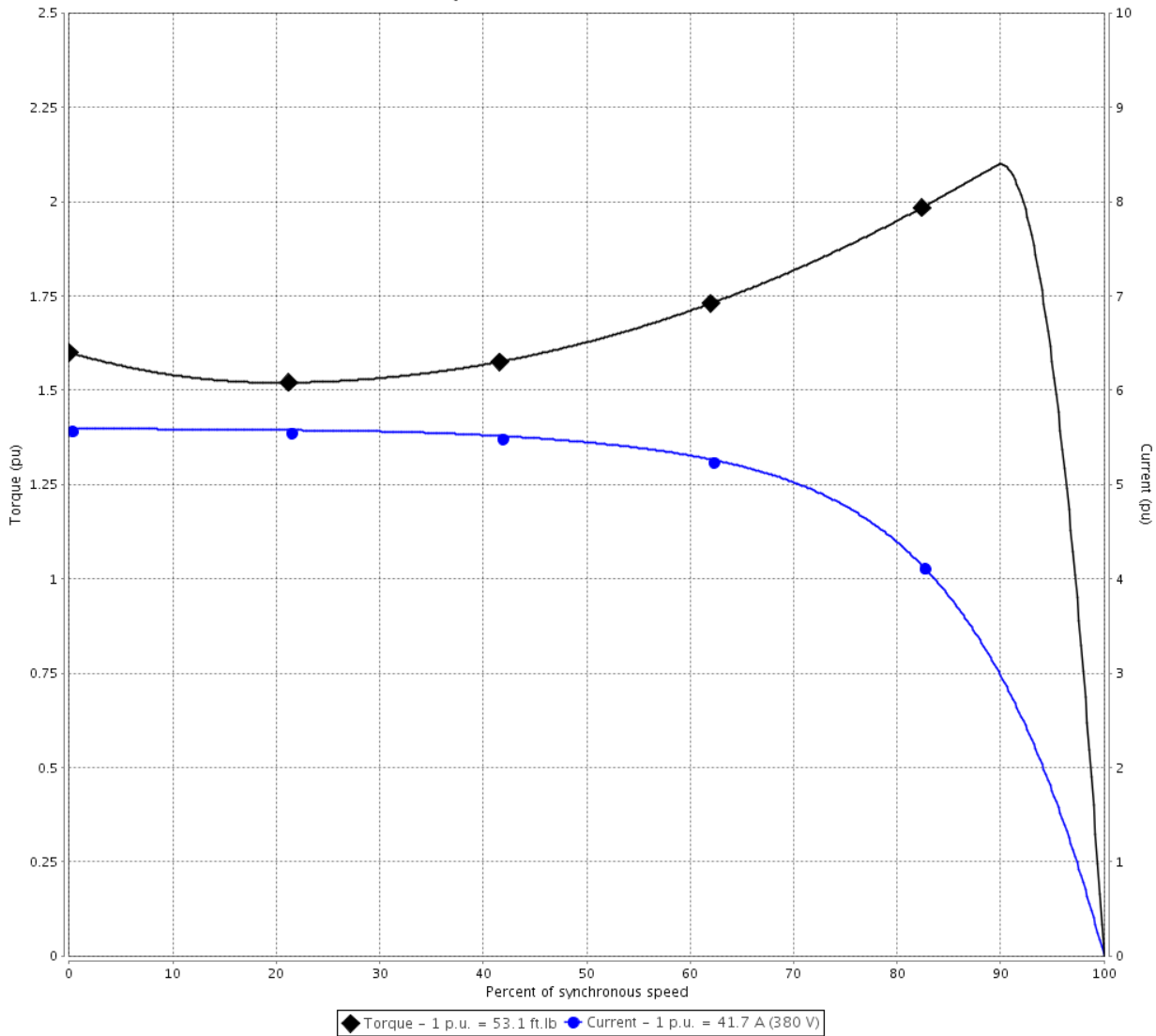
Customer :

Product line : ODP NEMA Premium Efficiency  
Three-Phase

Product code : 11363549

Catalog # : 03036OT3E284TSC

TORQUE AND CURRENT VS SPEED CURVE



Performance : 380 V 50 Hz 2P IE1

Rated current	: 41.7 A	Moment of inertia (J)	: 1.89 sq.ft.lb
LRC	: 5.6	Duty cycle	: Cont.(S1)
Rated torque	: 53.1 ft.lb	Insulation class	: F
Locked rotor torque	: 160 %	Service factor	: 1.15
Breakdown torque	: 210 %	Temperature rise	: 80 K
Rated speed	: 2925 rpm	Design	: B

Locked rotor time : 23s (cold) 13s (hot)

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# TORQUE AND CURRENT VS SPEED CURVE



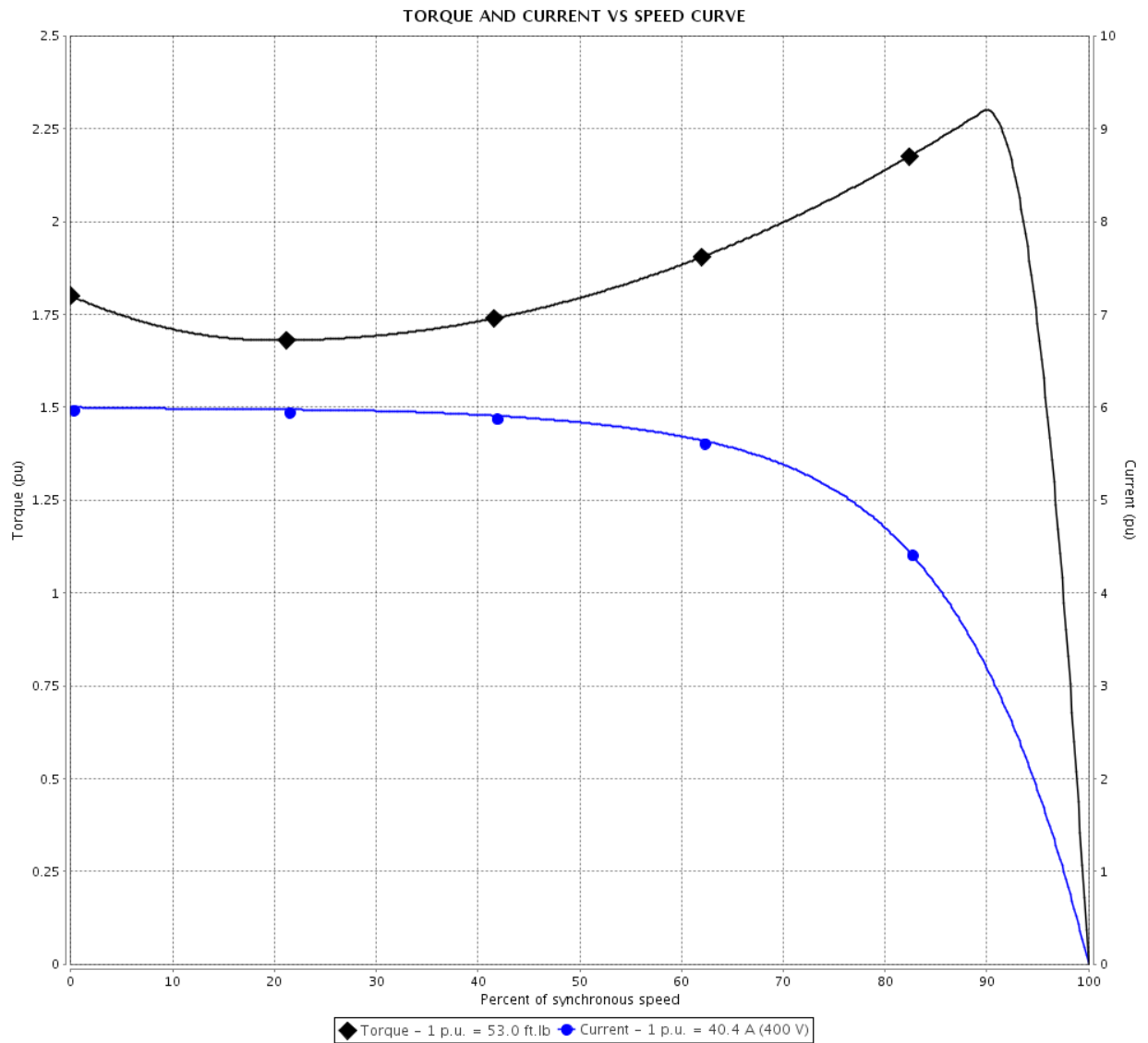
## Three Phase Induction Motor - Squirrel Cage

Customer :

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Product code : 11363549

Catalog # : 03036OT3E284TSC



Performance : 400 V 50 Hz 2P IE2

Rated current	: 40.4 A	Moment of inertia (J)	: 1.89 sq.ft.lb
LRC	: 6.0	Duty cycle	: Cont.(S1)
Rated torque	: 53.0 ft.lb	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.15
Breakdown torque	: 229 %	Temperature rise	: 80 K
Rated speed	: 2935 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

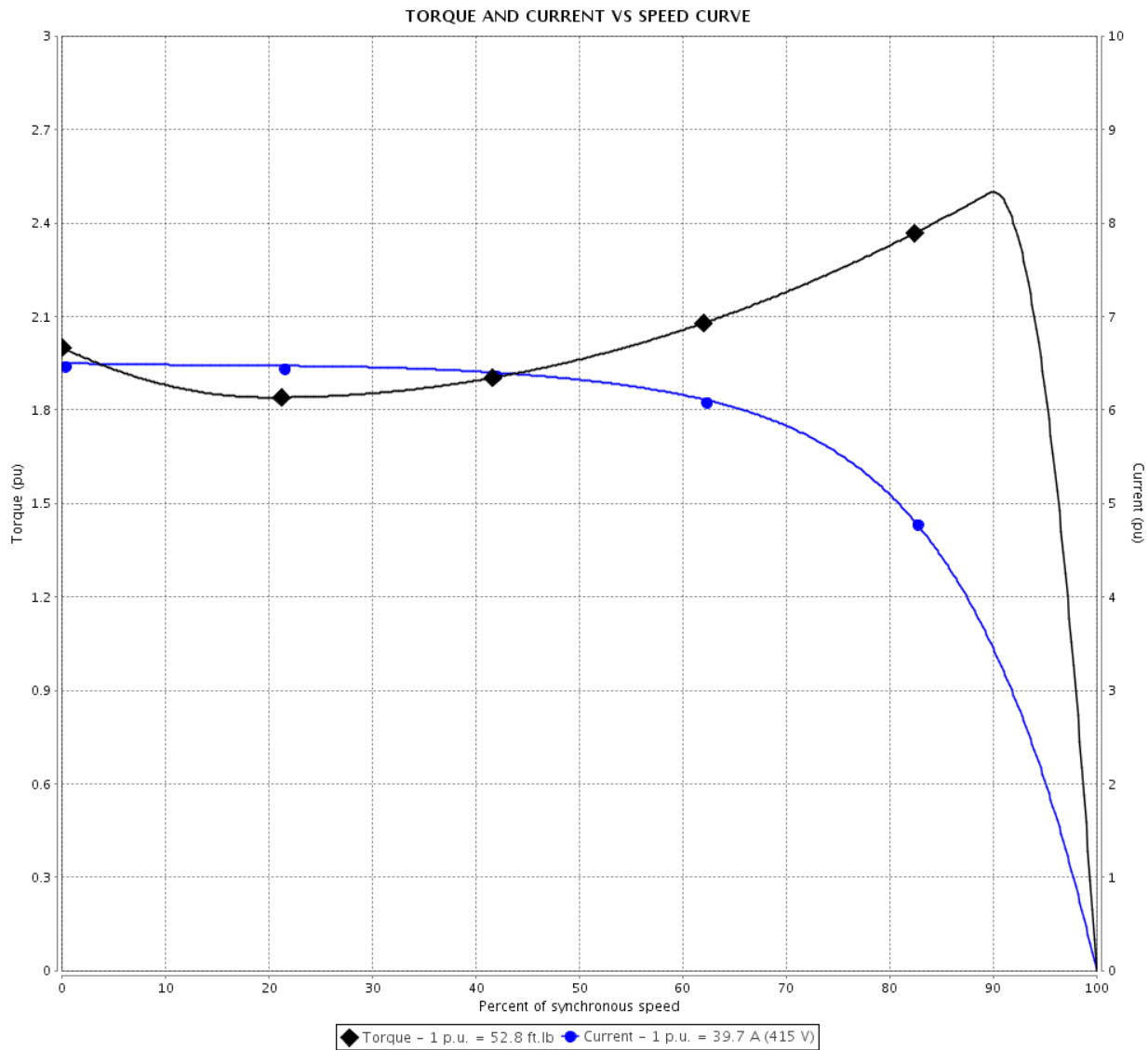


Customer :

Product line : ODP NEMA Premium Efficiency  
Three-Phase

Product code : 11363549

Catalog # : 03036OT3E284TSC



Performance : 415 V 50 Hz 2P IE2

Rated current	: 39.7 A	Moment of inertia (J)	: 1.89 sq.ft.lb
LRC	: 6.5	Duty cycle	: Cont.(S1)
Rated torque	: 52.8 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 2945 rpm	Design	: B

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

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# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

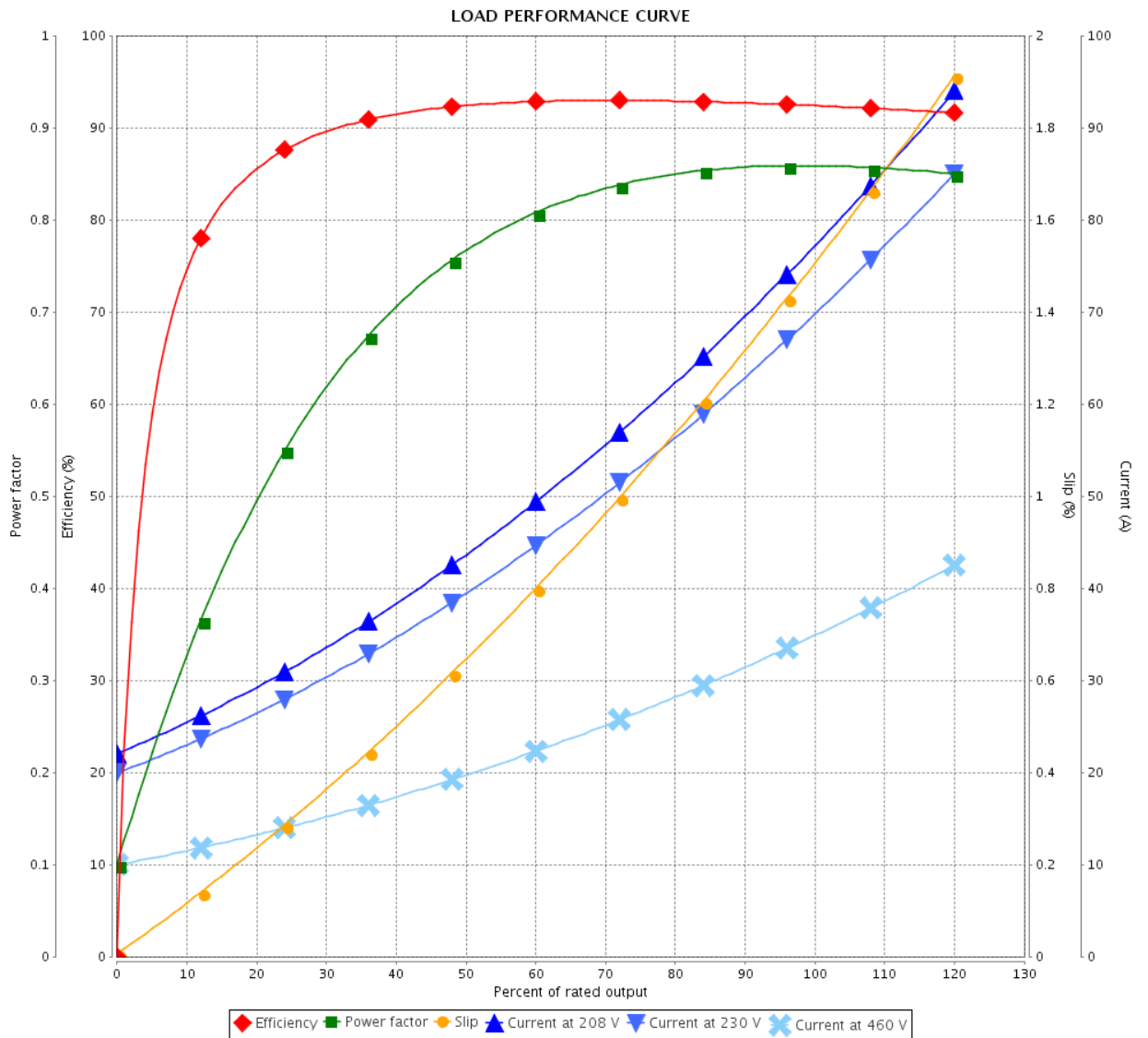


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Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 11363549

Catalog # : 03036OT3E284TSC



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

Rated current : 76.7-69.4/34.7 A  
 LRC : 6.4  
 Rated torque : 43.8 ft.lb  
 Locked rotor torque : 220 %  
 Breakdown torque : 280 %  
 Rated speed : 3545 rpm

Moment of inertia (J) : 1.89 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

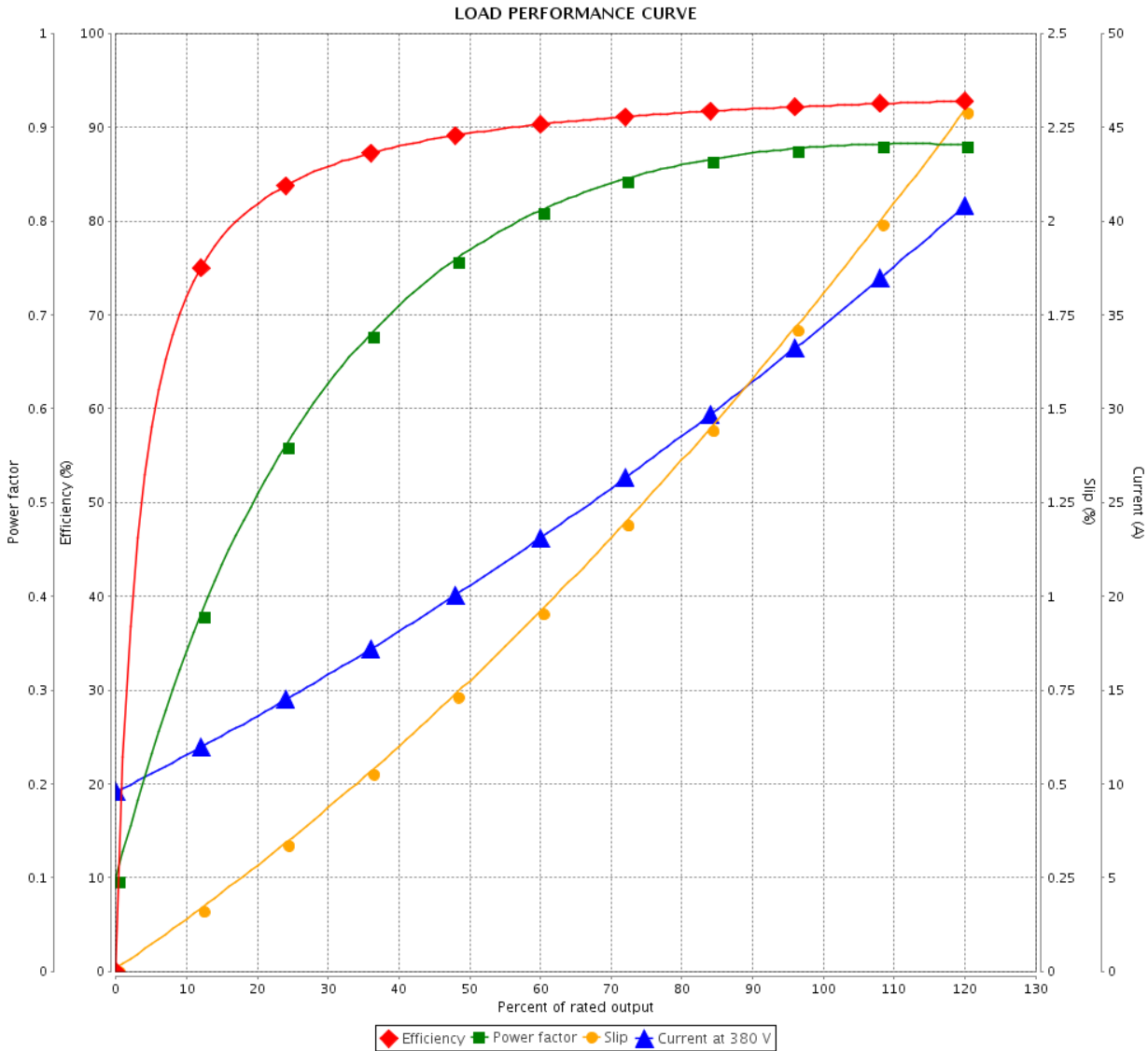


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Product code : 11363549

Catalog # : 03036OT3E284TSC



Performance : 380 V 50 Hz 2P IE3

Rated current : 34.6 A  
 LRC : 6.7  
 Rated torque : 44.0 ft.lb  
 Locked rotor torque : 190 %  
 Breakdown torque : 250 %  
 Rated speed : 2945 rpm

Moment of inertia (J) : 1.89 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

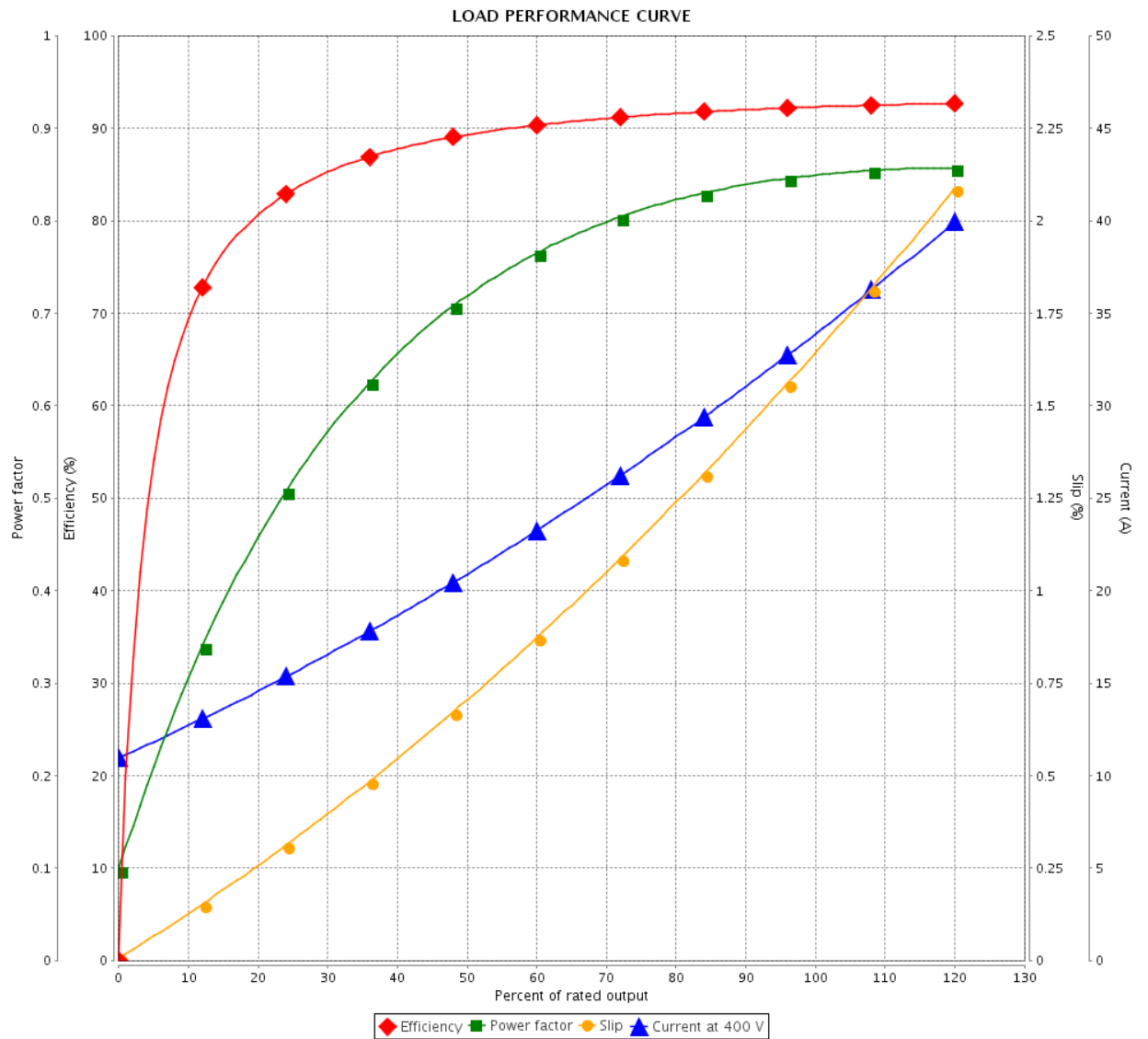


Customer :

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Product code : 11363549

Catalog # : 03036OT3E284TSC



Performance : 400 V 50 Hz 2P IE3

Rated current : 34.0 A  
 LRC : 7.1  
 Rated torque : 43.9 ft.lb  
 Locked rotor torque : 210 %  
 Breakdown torque : 270 %  
 Rated speed : 2950 rpm

Moment of inertia (J) : 1.89 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

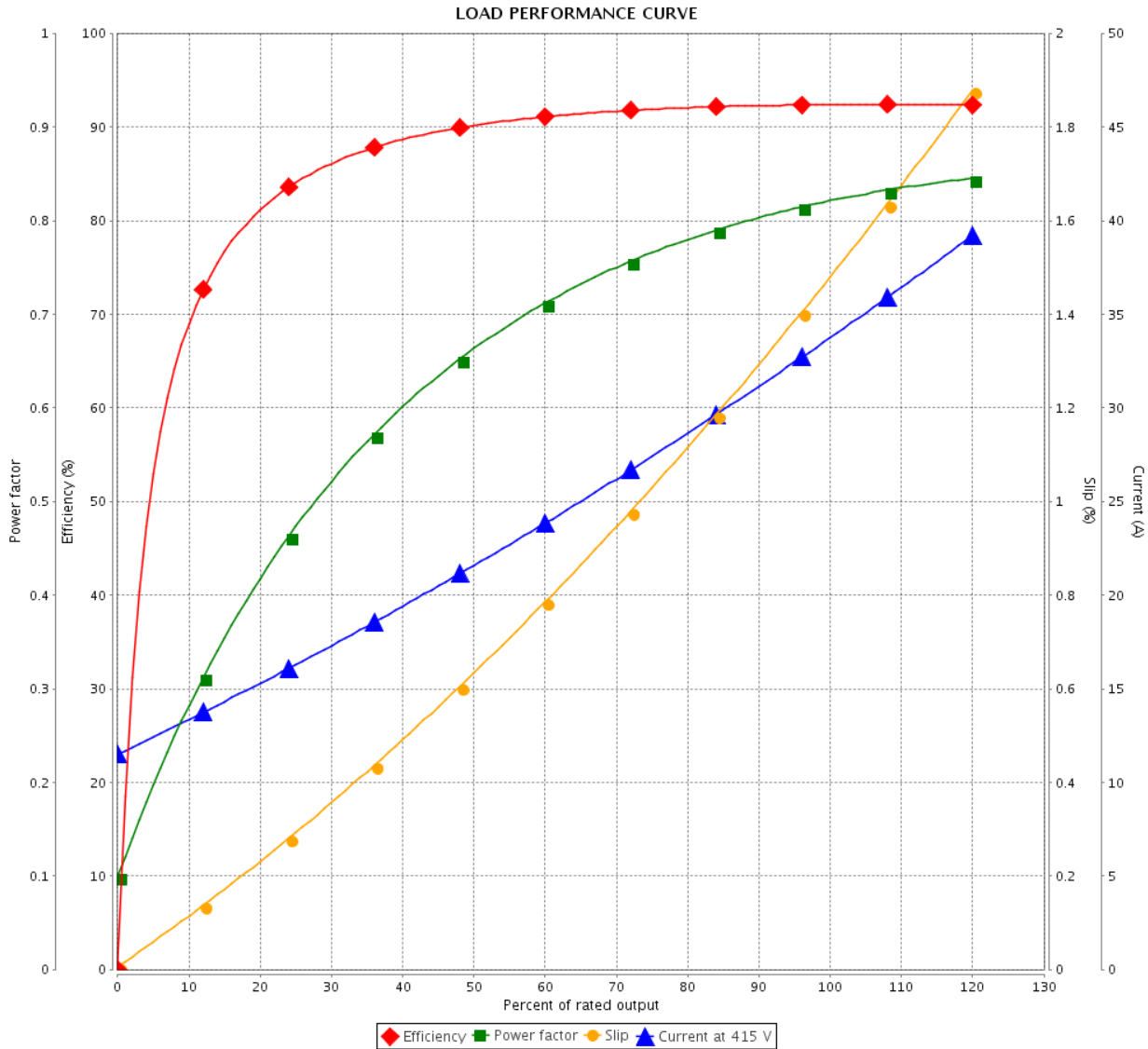


Customer :

Product line : ODP NEMA Premium Efficiency  
Three-Phase

Product code : 11363549

Catalog # : 03036OT3E284TSC



Performance : 415 V 50 Hz 2P IE3

Rated current : 34.0 A  
 LRC : 7.6  
 Rated torque : 43.8 ft.lb  
 Locked rotor torque : 229 %  
 Breakdown torque : 290 %  
 Rated speed : 2955 rpm

Moment of inertia (J) : 1.89 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

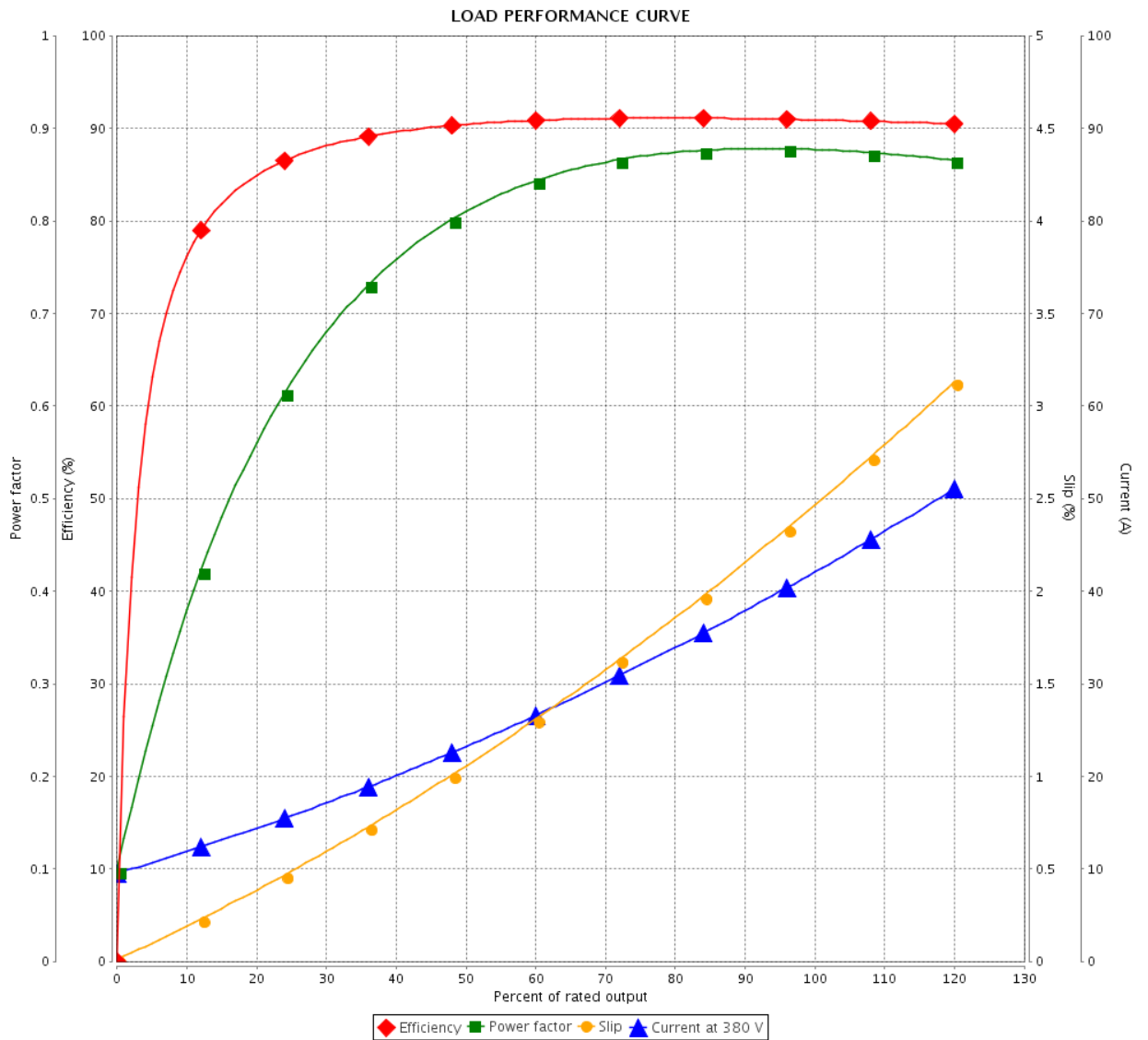


Customer : \_\_\_\_\_

Product line : ODP NEMA Premium Efficiency  
Three-Phase

Product code : 11363549

Catalog # : 03036OT3E284TSC



Performance : 380 V 50 Hz 2P IE1

Rated current : 41.7 A  
 LRC : 5.6  
 Rated torque : 53.1 ft.lb  
 Locked rotor torque : 160 %  
 Breakdown torque : 210 %  
 Rated speed : 2925 rpm

Moment of inertia (J) : 1.89 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

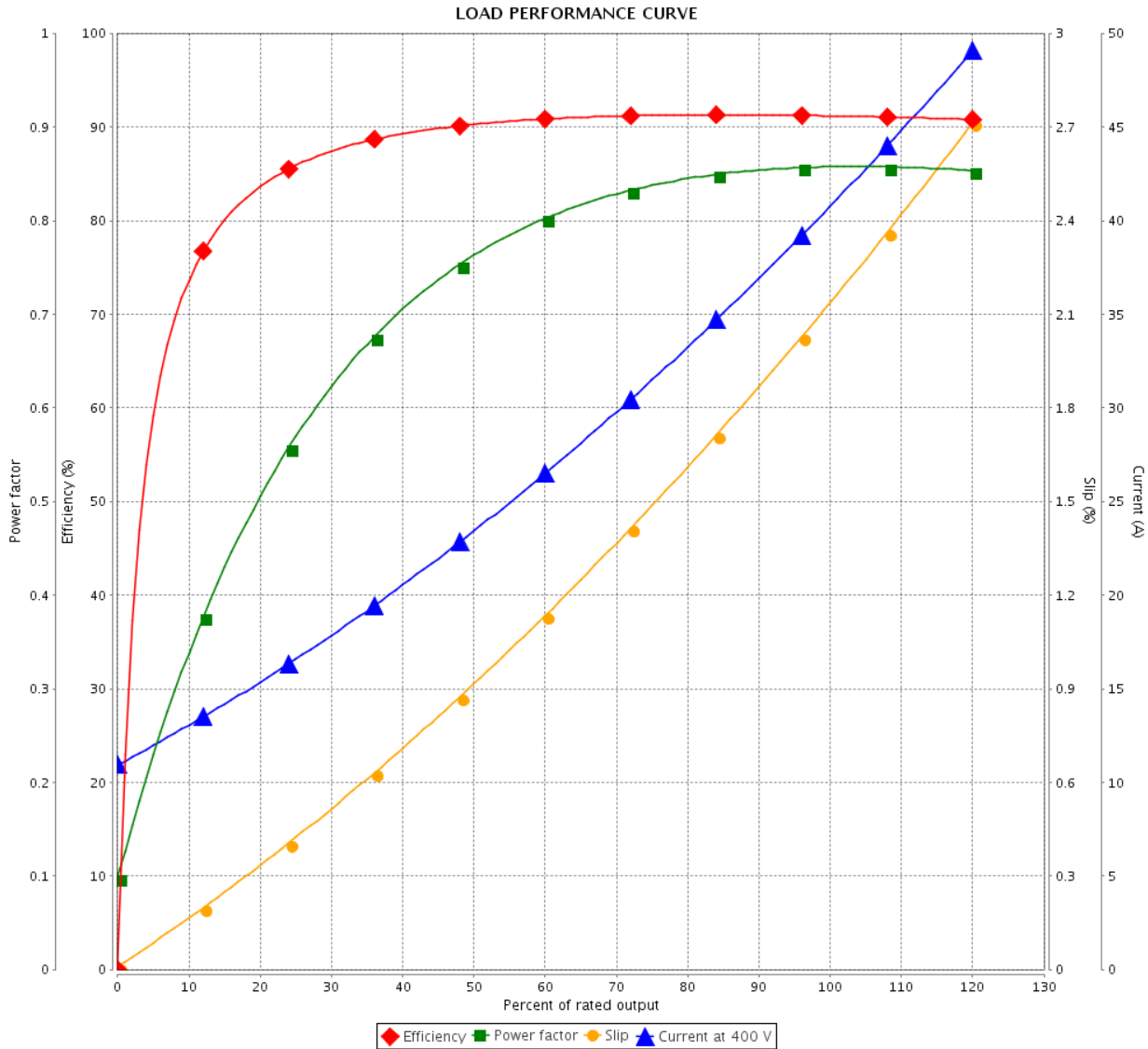


Customer : \_\_\_\_\_

Product line : ODP NEMA Premium Efficiency  
Three-Phase

Product code : 11363549

Catalog # : 03036OT3E284TSC



Performance : 400 V 50 Hz 2P IE2

Rated current : 40.4 A  
 LRC : 6.0  
 Rated torque : 53.0 ft.lb  
 Locked rotor torque : 180 %  
 Breakdown torque : 229 %  
 Rated speed : 2935 rpm

Moment of inertia (J) : 1.89 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

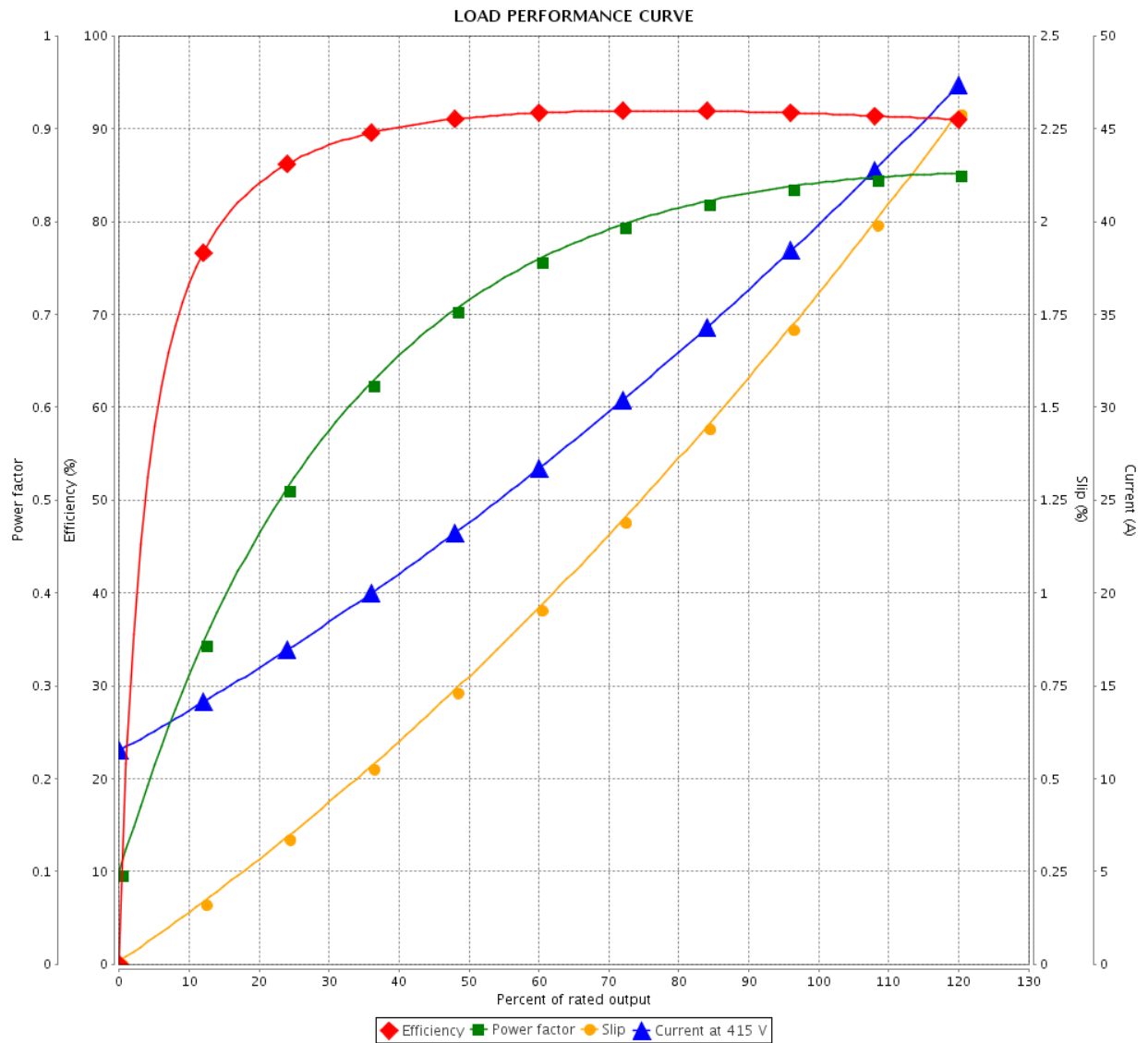


Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 11363549

Catalog # : 03036OT3E284TSC



Performance : 415 V 50 Hz 2P IE2

Rated current : 39.7 A  
 LRC : 6.5  
 Rated torque : 52.8 ft.lb  
 Locked rotor torque : 200 %  
 Breakdown torque : 250 %  
 Rated speed : 2945 rpm

Moment of inertia (J) : 1.89 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

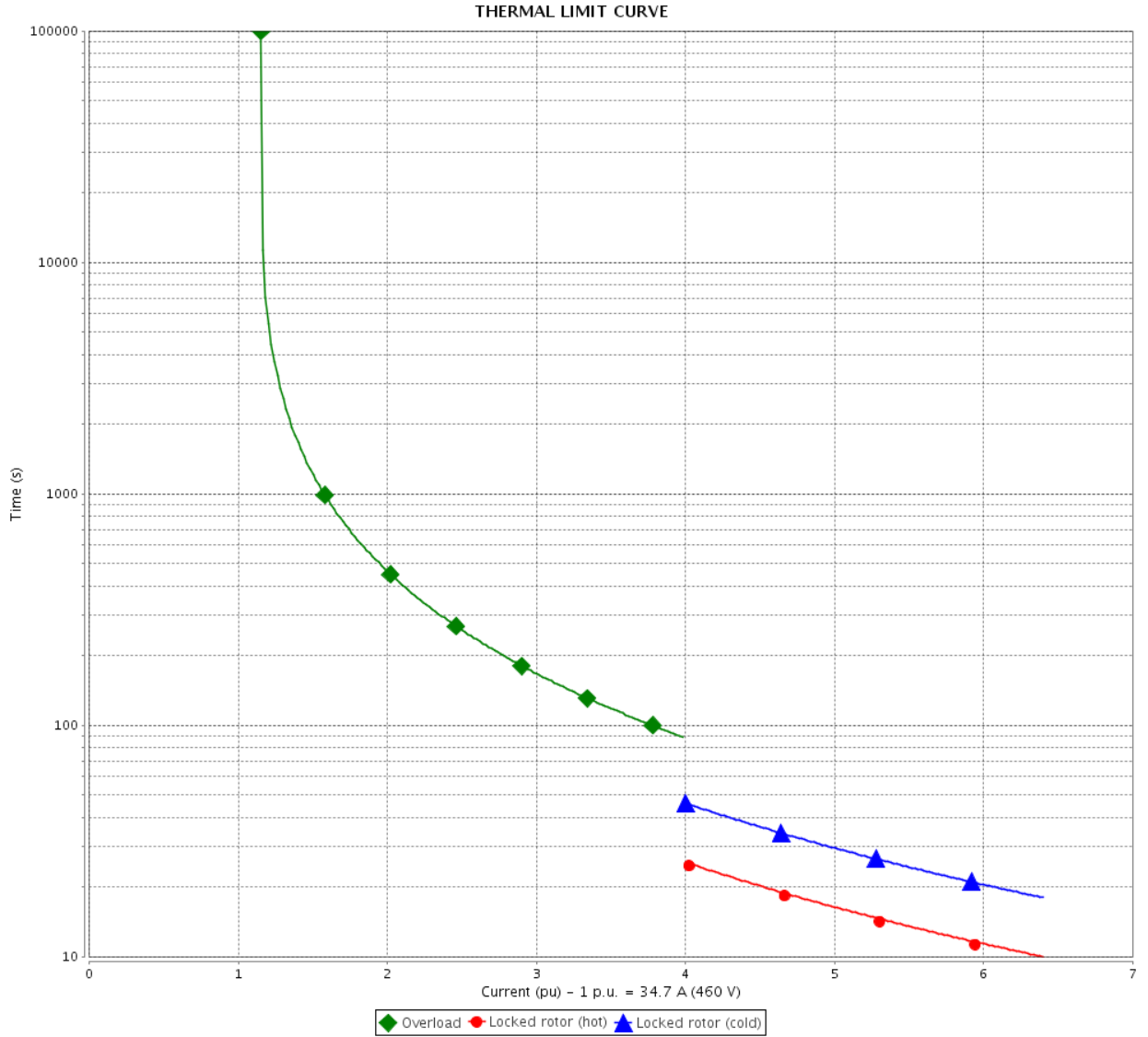
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# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



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



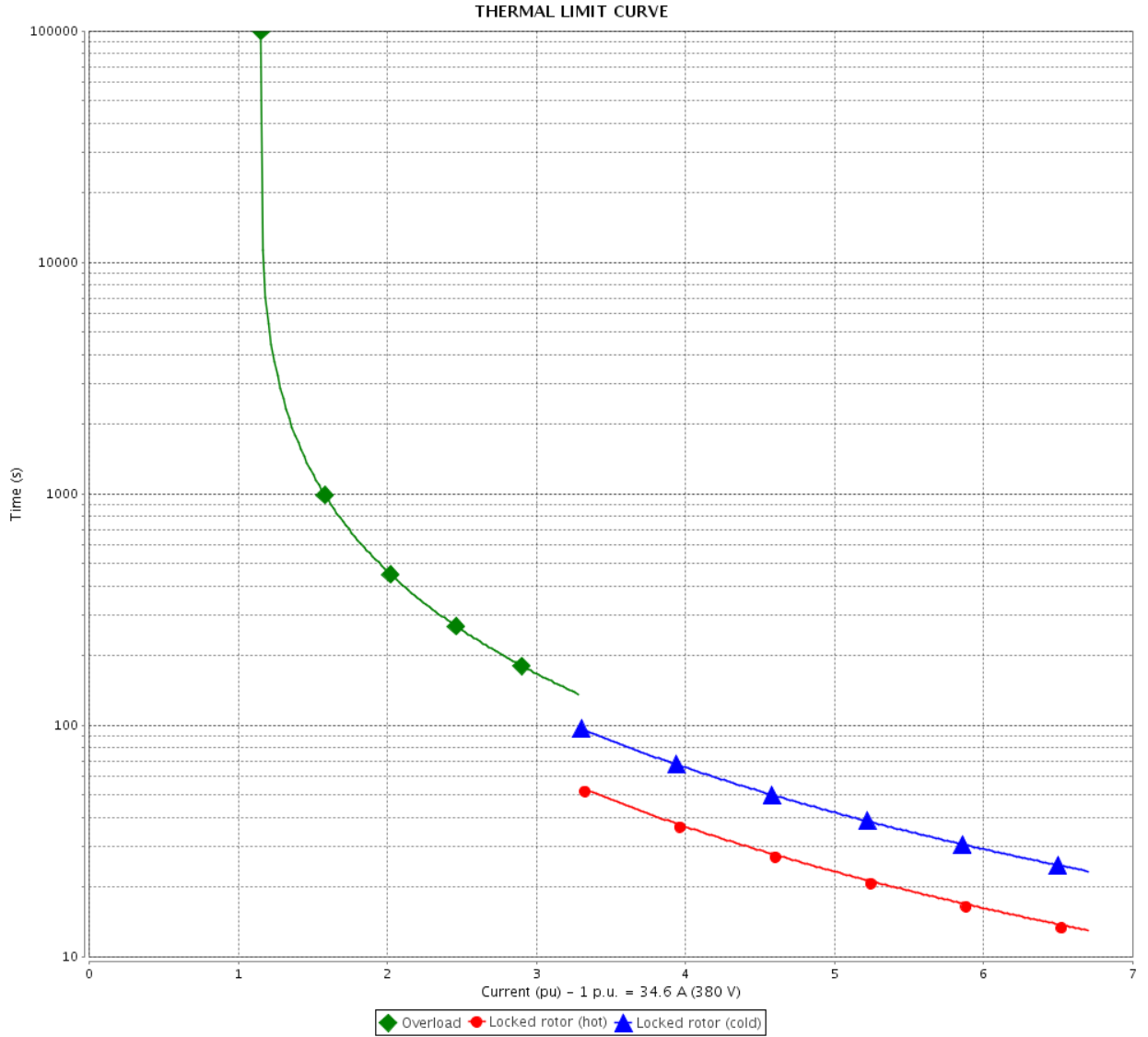
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# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



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



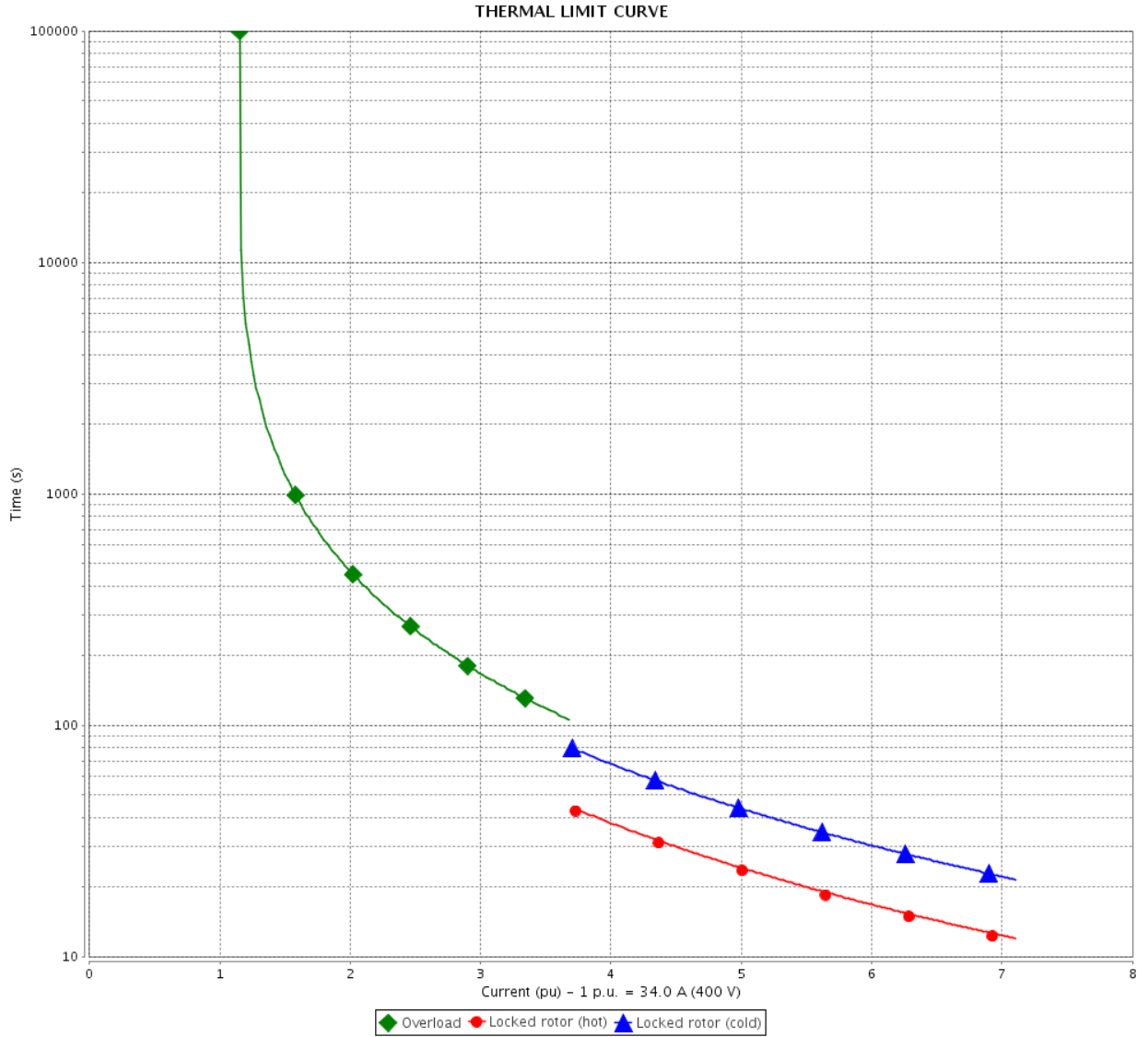
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# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



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



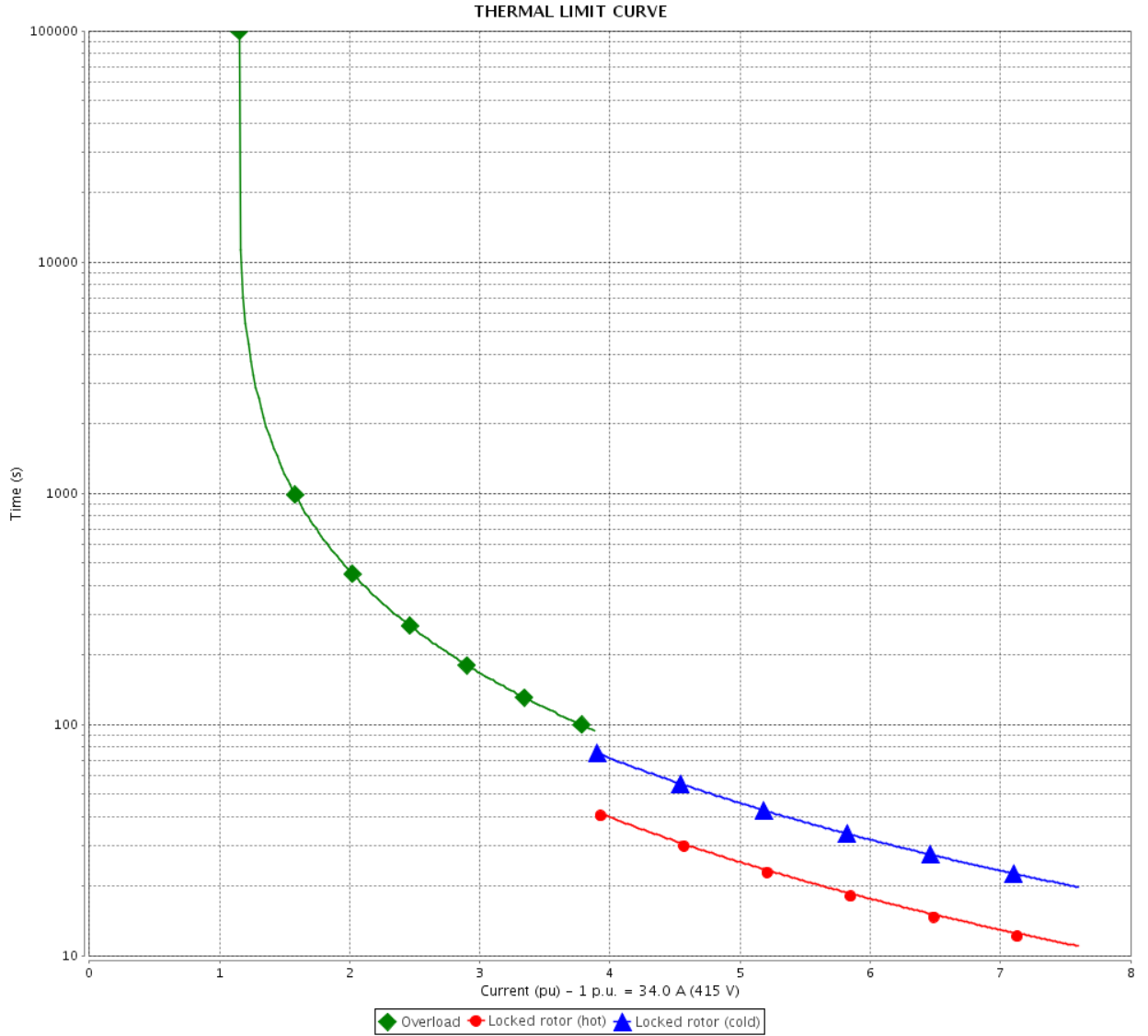
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# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



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



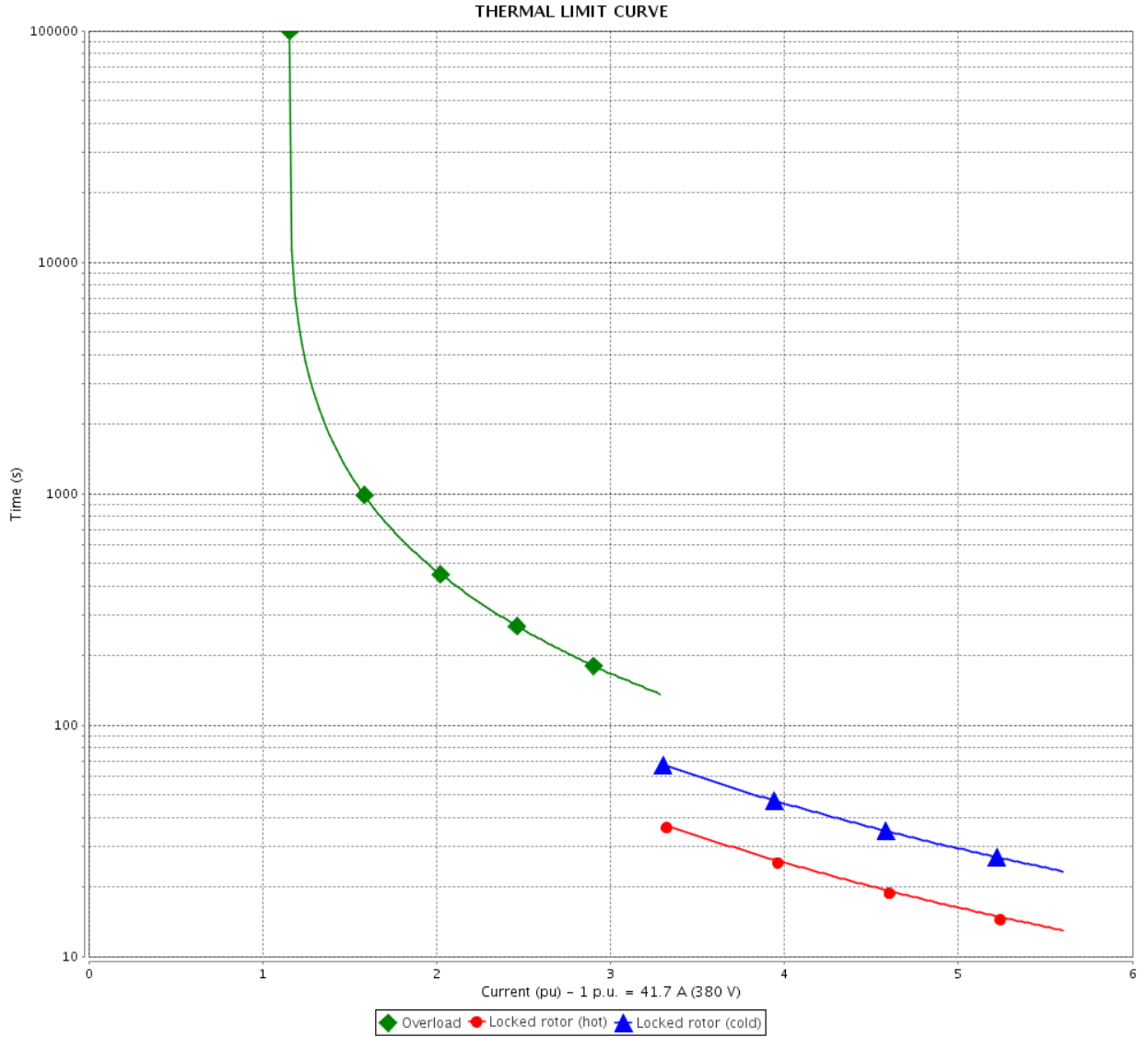
Rev.	Changes Summary	Performed	Checked	Date
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# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



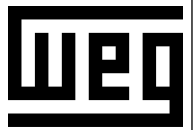
Customer : \_\_\_\_\_



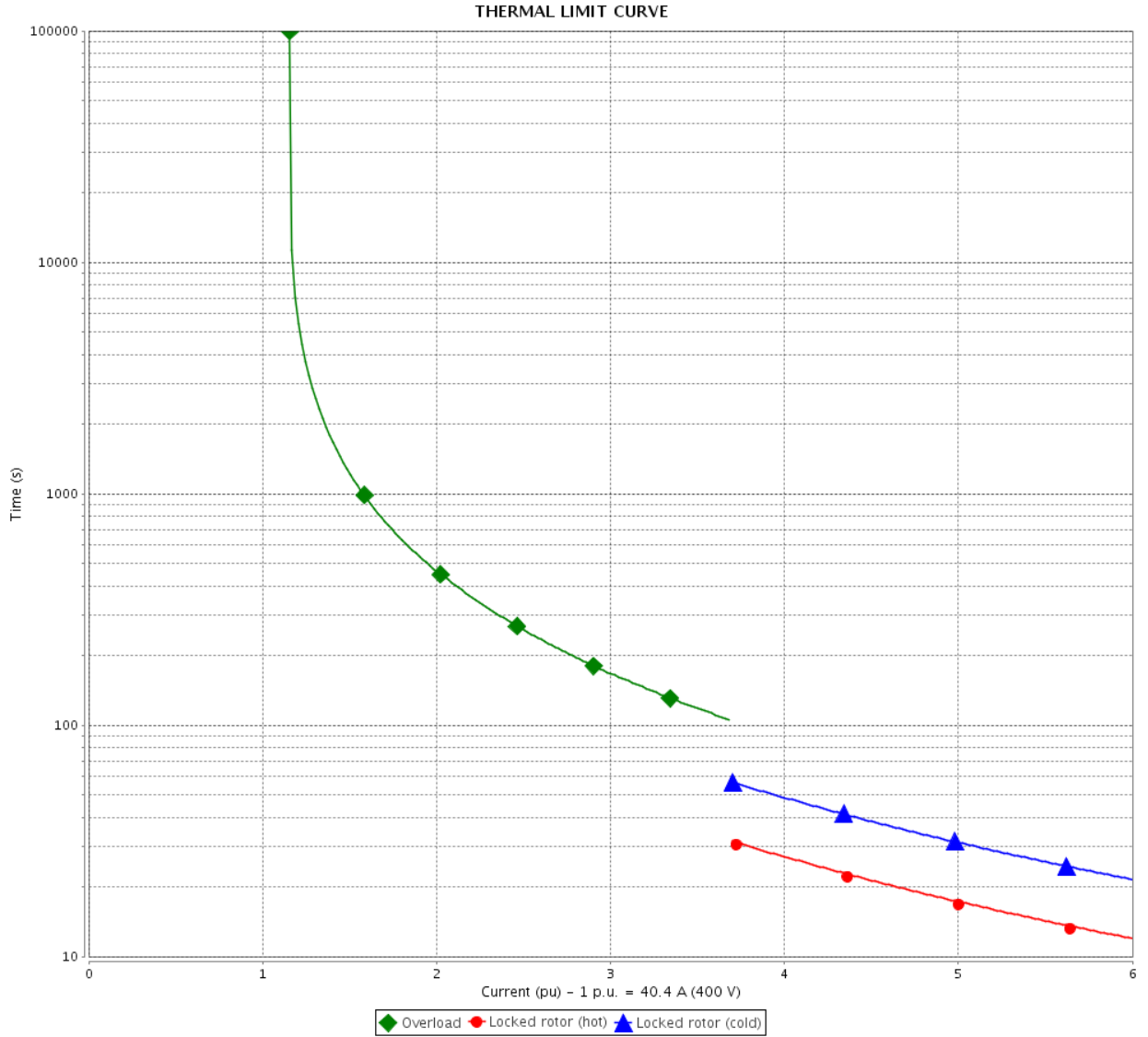
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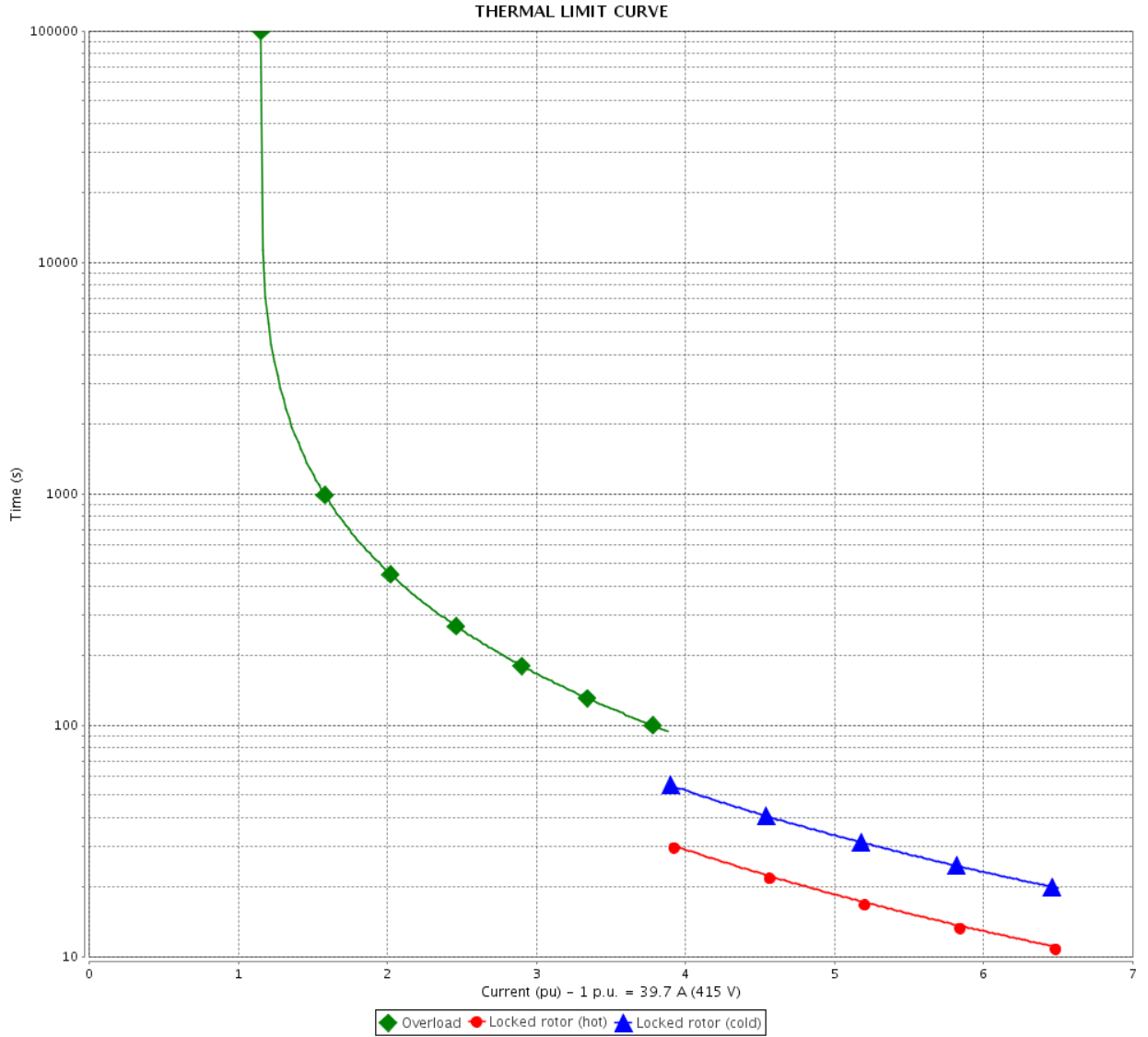
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# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



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



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# VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

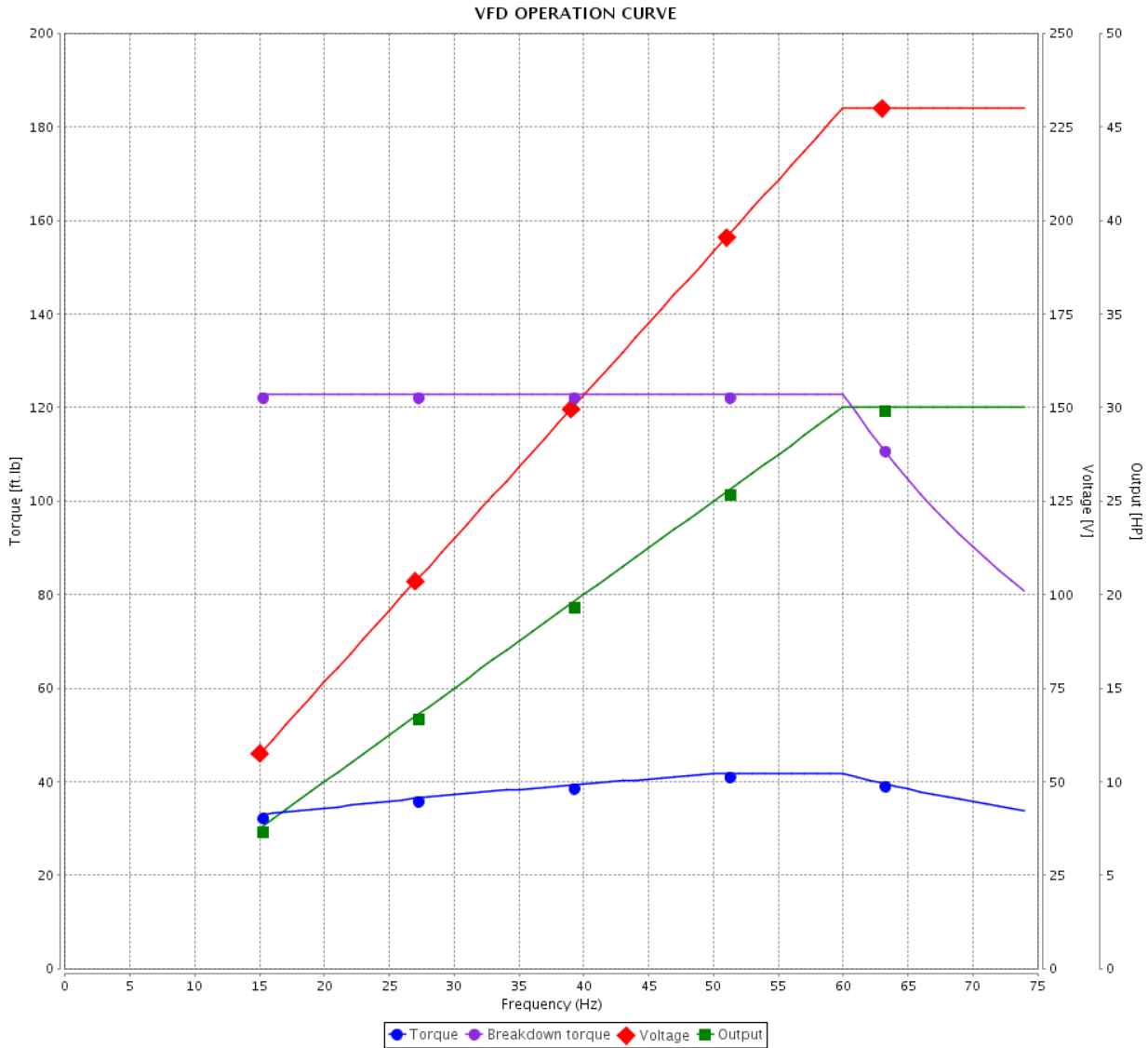


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Performance : 208-230/460 V 60 Hz 2P

Rated current : 76.7-69.4/34.7 A  
 LRC : 6.4  
 Rated torque : 43.8 ft.lb  
 Locked rotor torque : 220 %  
 Breakdown torque : 280 %  
 Rated speed : 3545 rpm

Moment of inertia (J) : 1.89 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

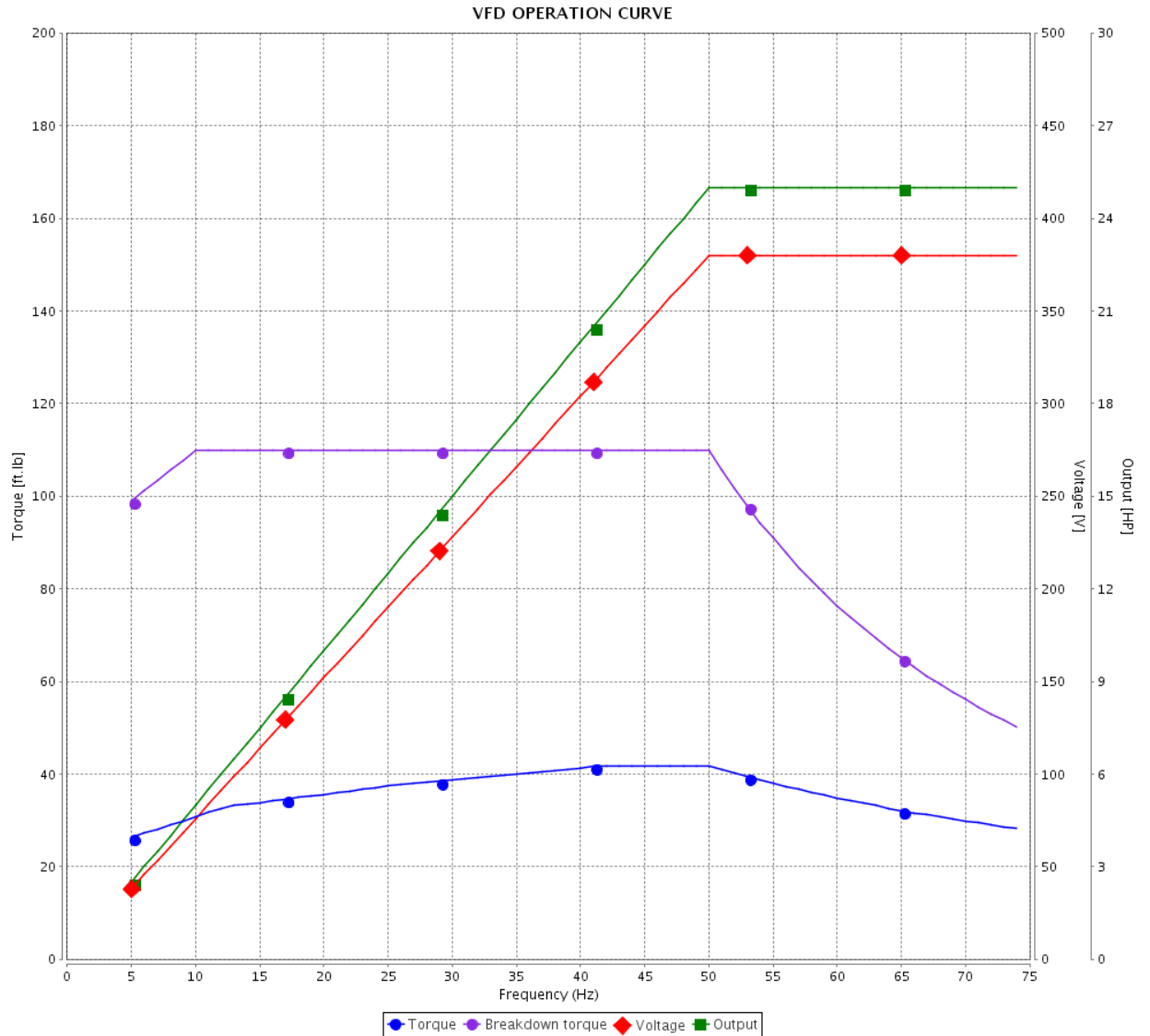


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Performance : 380 V 50 Hz 2P IE3

Rated current : 34.6 A  
LRC : 6.7  
Rated torque : 44.0 ft.lb  
Locked rotor torque : 190 %  
Breakdown torque : 250 %  
Rated speed : 2945 rpm

Moment of inertia (J) : 1.89 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

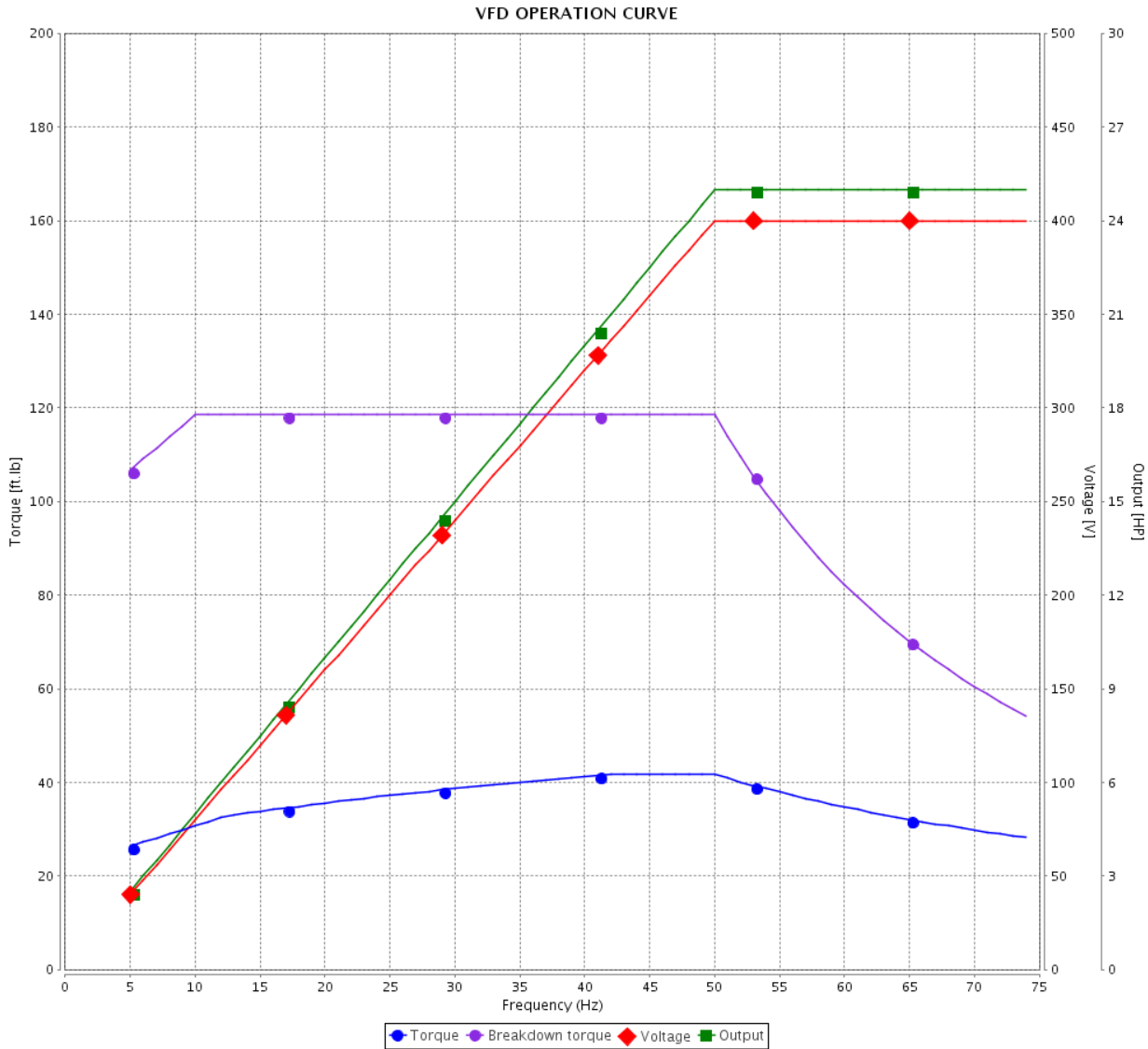


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Product code : 11363549

Catalog # : 030360T3E284TSC



Performance : 400 V 50 Hz 2P IE3

Rated current : 34.0 A  
LRC : 7.1  
Rated torque : 43.9 ft.lb  
Locked rotor torque : 210 %  
Breakdown torque : 270 %  
Rated speed : 2950 rpm

Moment of inertia (J) : 1.89 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 32 / 36	Revision
Checked by				
Date	08/11/2019			

# VFD OPERATION CURVE

## Three Phase Induction Motor - Squirrel Cage

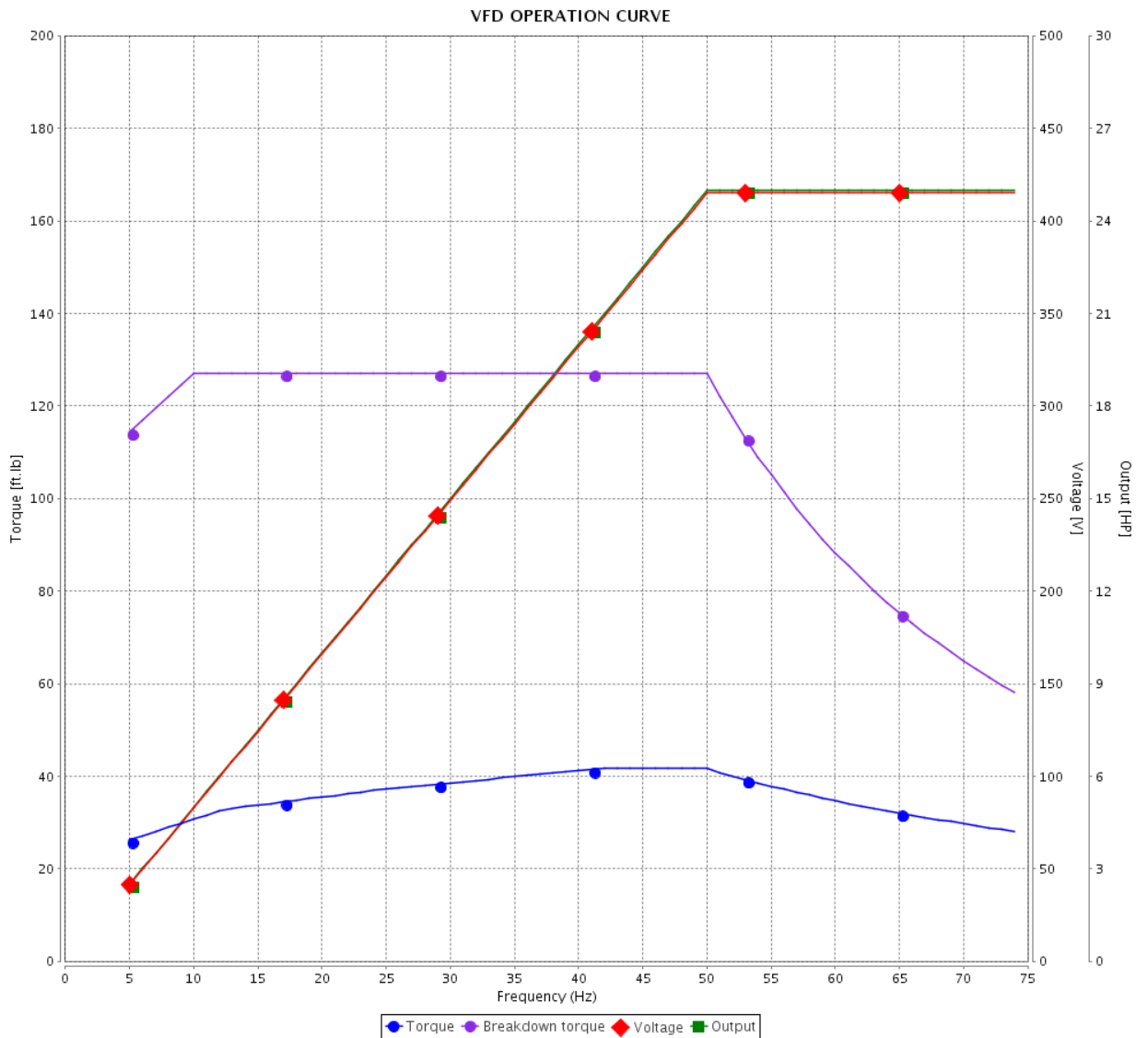


Customer :

Product line : ODP NEMA Premium Efficiency  
Three-Phase

Product code : 11363549

Catalog # : 03036OT3E284TSC



Performance : 415 V 50 Hz 2P IE3

Rated current : 34.0 A  
LRC : 7.6  
Rated torque : 43.8 ft.lb  
Locked rotor torque : 229 %  
Breakdown torque : 290 %  
Rated speed : 2955 rpm

Moment of inertia (J) : 1.89 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			33 / 36	
Date	08/11/2019			

# VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

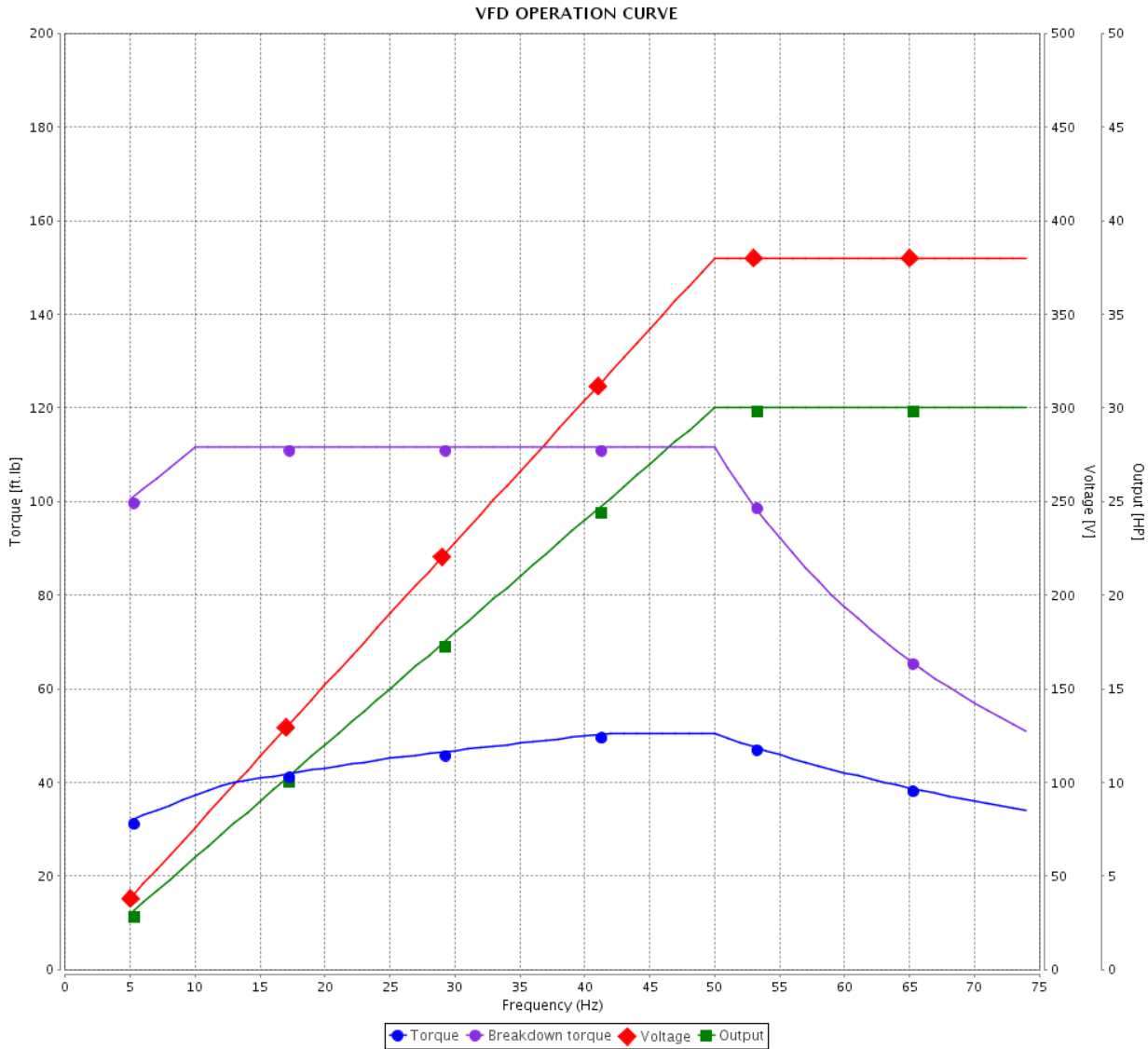


Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 11363549

Catalog # : 030360T3E284TSC



Performance : 380 V 50 Hz 2P IE1

Rated current : 41.7 A  
 LRC : 5.6  
 Rated torque : 53.1 ft.lb  
 Locked rotor torque : 160 %  
 Breakdown torque : 210 %  
 Rated speed : 2925 rpm

Moment of inertia (J) : 1.89 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 34 / 36	Revision
Checked by				
Date	08/11/2019			

# VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

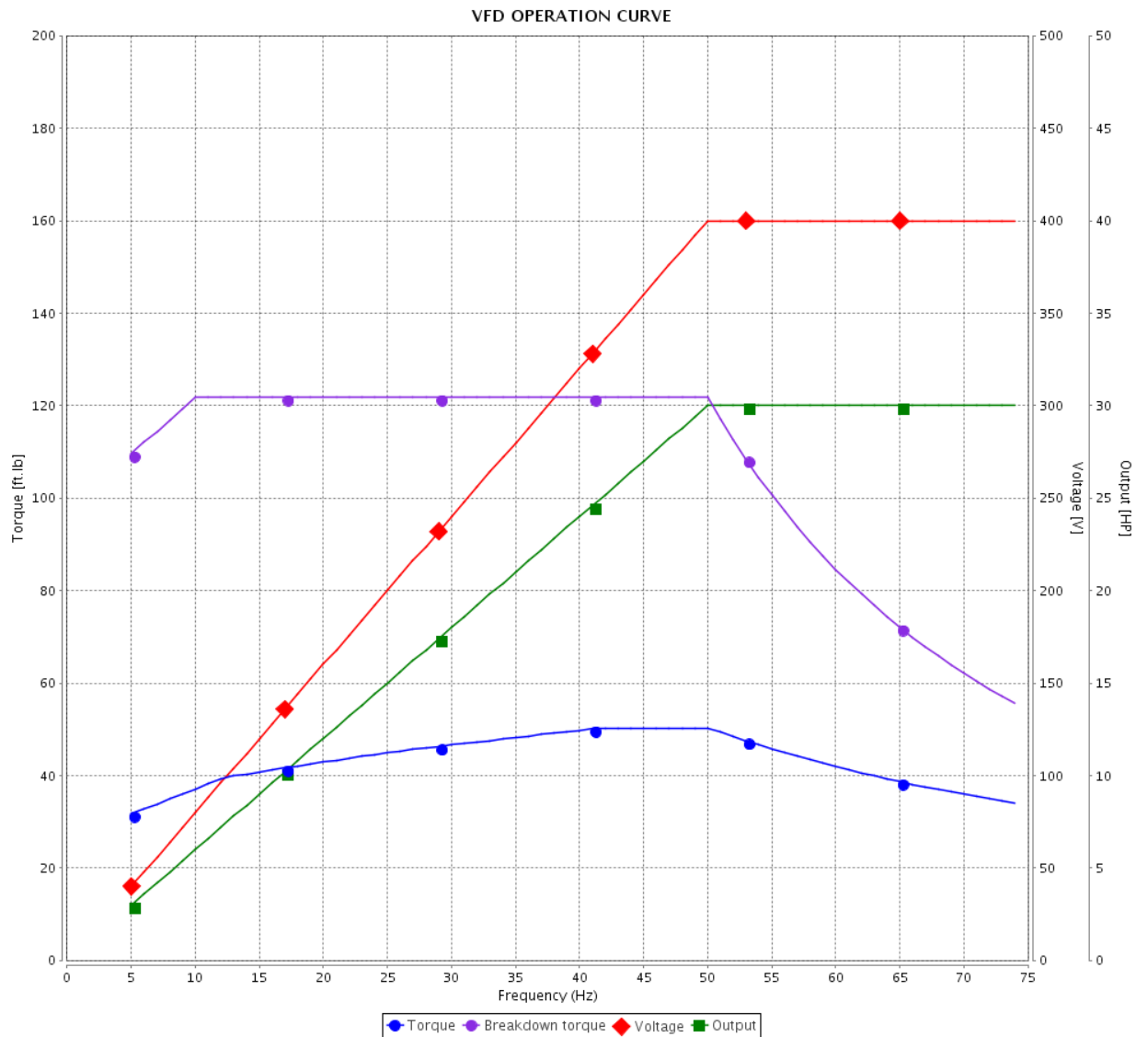


Customer :

Product line : ODP NEMA Premium Efficiency  
Three-Phase

Product code : 11363549

Catalog # : 03036OT3E284TSC



Performance : 400 V 50 Hz 2P IE2

Rated current : 40.4 A  
LRC : 6.0  
Rated torque : 53.0 ft.lb  
Locked rotor torque : 180 %  
Breakdown torque : 229 %  
Rated speed : 2935 rpm

Moment of inertia (J) : 1.89 sq.ft.lb  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.15  
Temperature rise : 80 K  
Design : B

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Date		08/11/2019		

# VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

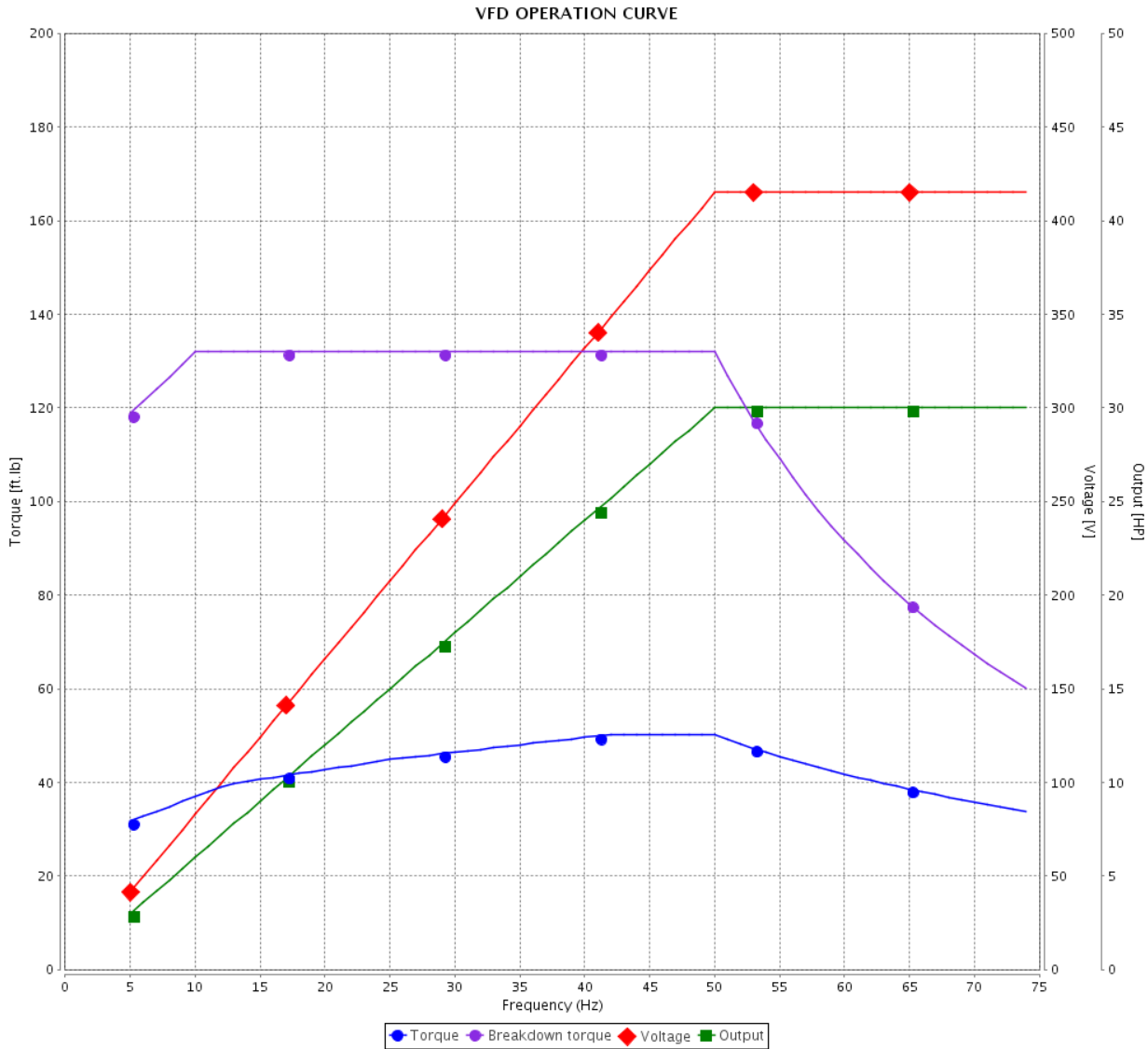


Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 11363549

Catalog # : 030360T3E284TSC



Performance : 415 V 50 Hz 2P IE2

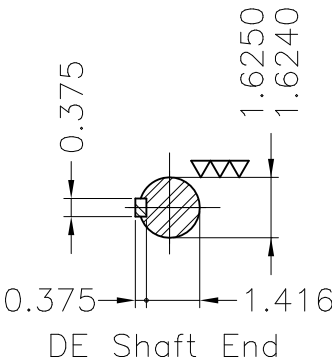
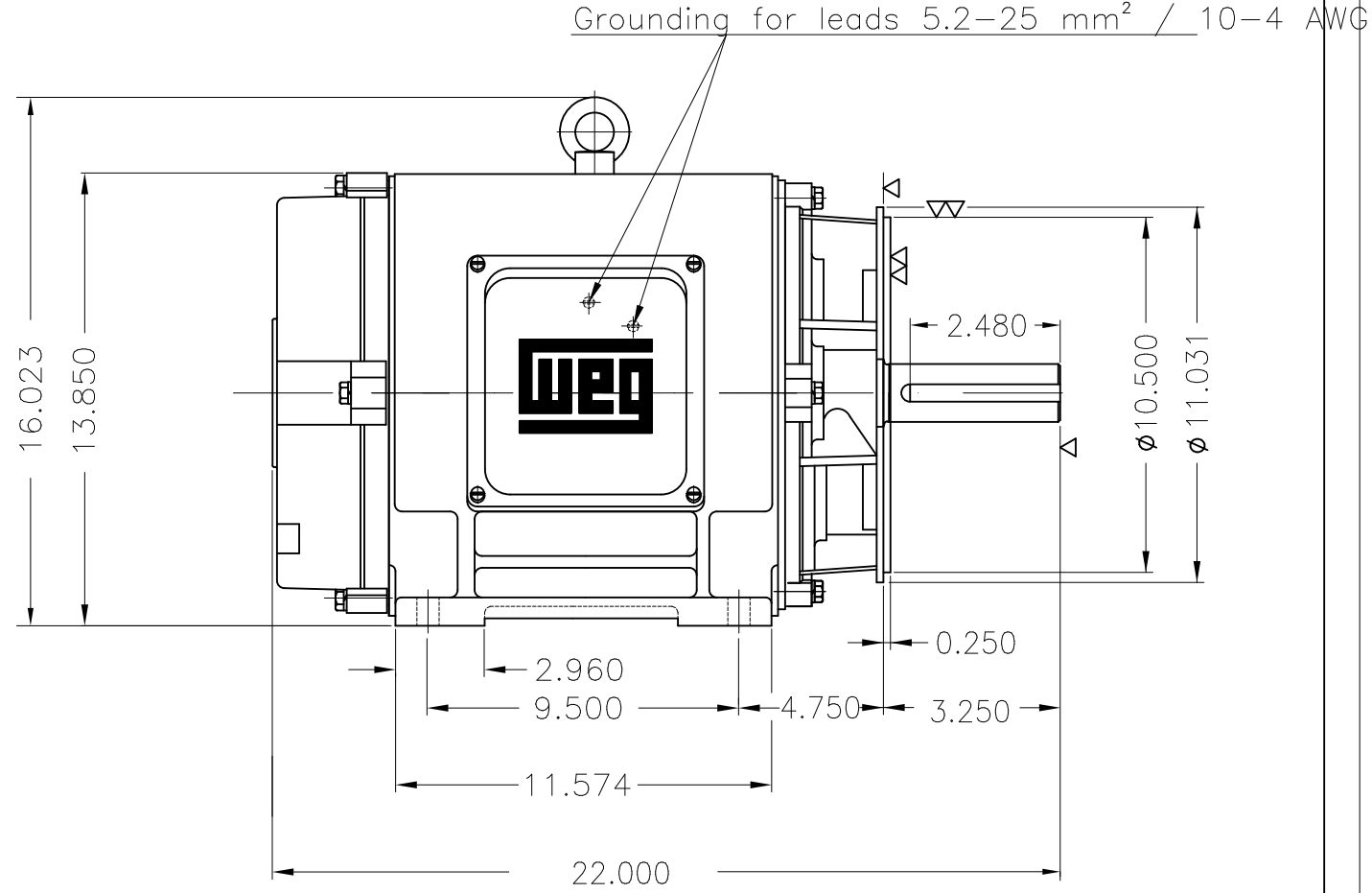
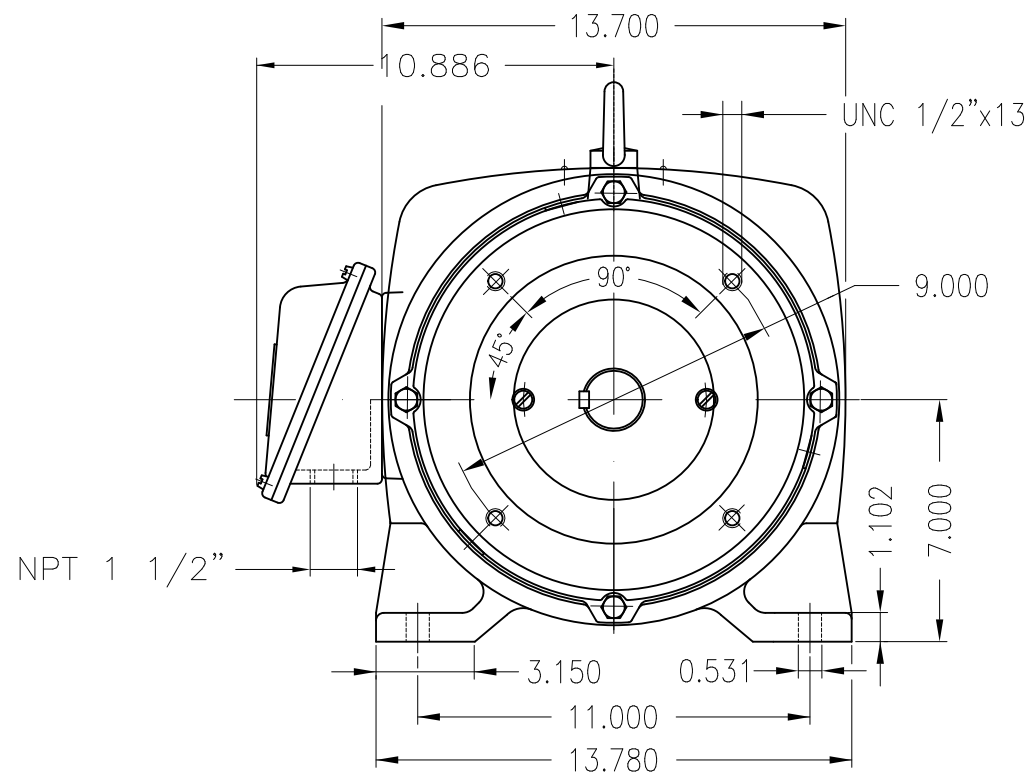
Rated current : 39.7 A  
 LRC : 6.5  
 Rated torque : 52.8 ft.lb  
 Locked rotor torque : 200 %  
 Breakdown torque : 250 %  
 Rated speed : 2945 rpm

Moment of inertia (J) : 1.89 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

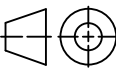
Rev.	Changes Summary	Performed	Checked	Date
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Date	08/11/2019			

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 284TSC IP23 ODP WEG code: 11363549					
CHECKED							
RELEASED							
REL DT	08.11.2019	WMO Jaragua do Sul	Product Engineering	SHEET	1 / 1		

30 HP 02 Poles 60Hz

A

