

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer								
Product line	: ODP NEMA Premium Efficiency Three-Phase	Product code	: 11363554					
		Catalog #	: 05036OT3E324TSC					
Frame	: 324TSC	Cooling method	: IC01 - ODP					
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	: 492 lb					
Protection degree	: IP23	Moment of inertia (J)	: 3.83 sq.ft.lb					
Design	: B							
Output [HP]	50	40	40	40	50	50	50	
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]	131-118/59.1	58.2	57.3	56.6	71.5	69.6	67.9	
L. R. Amperes [A]	836-756/378	361	384	402	358	383	401	
LRC [A]	6.4x(Code G)	6.2x(Code G)	6.7x(Code H)	7.1x(Code J)	5.0x(Code E)	5.5x(Code F)	5.9x(Code G)	
No load current [A]	29.3-34.0/17.0	14.0	16.5	19.0	14.0	16.5	19.0	
Rated speed [RPM]	3555	2960	2965	2970	2950	2955	2965	
Slip [%]	1.25	1.33	1.17	1.00	1.67	1.50	1.17	
Rated torque [ft.lb]	72.9	70.0	69.9	69.8	87.8	87.7	87.4	
Locked rotor torque [%]	220	250	280	310	200	220	250	
Breakdown torque [%]	260	310	340	380	250	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	50s (cold) 28s (hot)	54s (cold) 30s (hot)	48s (cold) 27s (hot)	45s (cold) 25s (hot)	54s (cold) 30s (hot)	48s (cold) 27s (hot)	45s (cold) 25s (hot)	
Noise level ²	74.0 dB(A)							
Efficiency (%)	25%	92.2	88.0	87.9	88.6	90.1	90.1	90.2
	50%	92.4	89.8	89.6	90.0	91.0	91.0	91.0
	75%	93.6	91.4	91.6	92.0	91.7	91.7	91.7
	100%	93.6	93.3	93.3	93.4	92.5	92.5	92.5
Power Factor	25%	0.52	0.54	0.48	0.43	0.60	0.54	0.49
	50%	0.74	0.74	0.68	0.64	0.78	0.73	0.69
	75%	0.82	0.81	0.77	0.73	0.84	0.81	0.78
	100%	0.84	0.84	0.81	0.79	0.85	0.83	0.82
Bearing type	: Drive end 6312 Z C3	: Non drive end 6212 Z C3	Foundation loads					
Sealing	: Without	: Without	Max. traction	: 773 lb				
	Bearing Seal		Max. compression	: 1266 lb				
Lubrication interval	: 19658 h	: 20000 h						
Lubricant amount	: 21 g	: 13 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



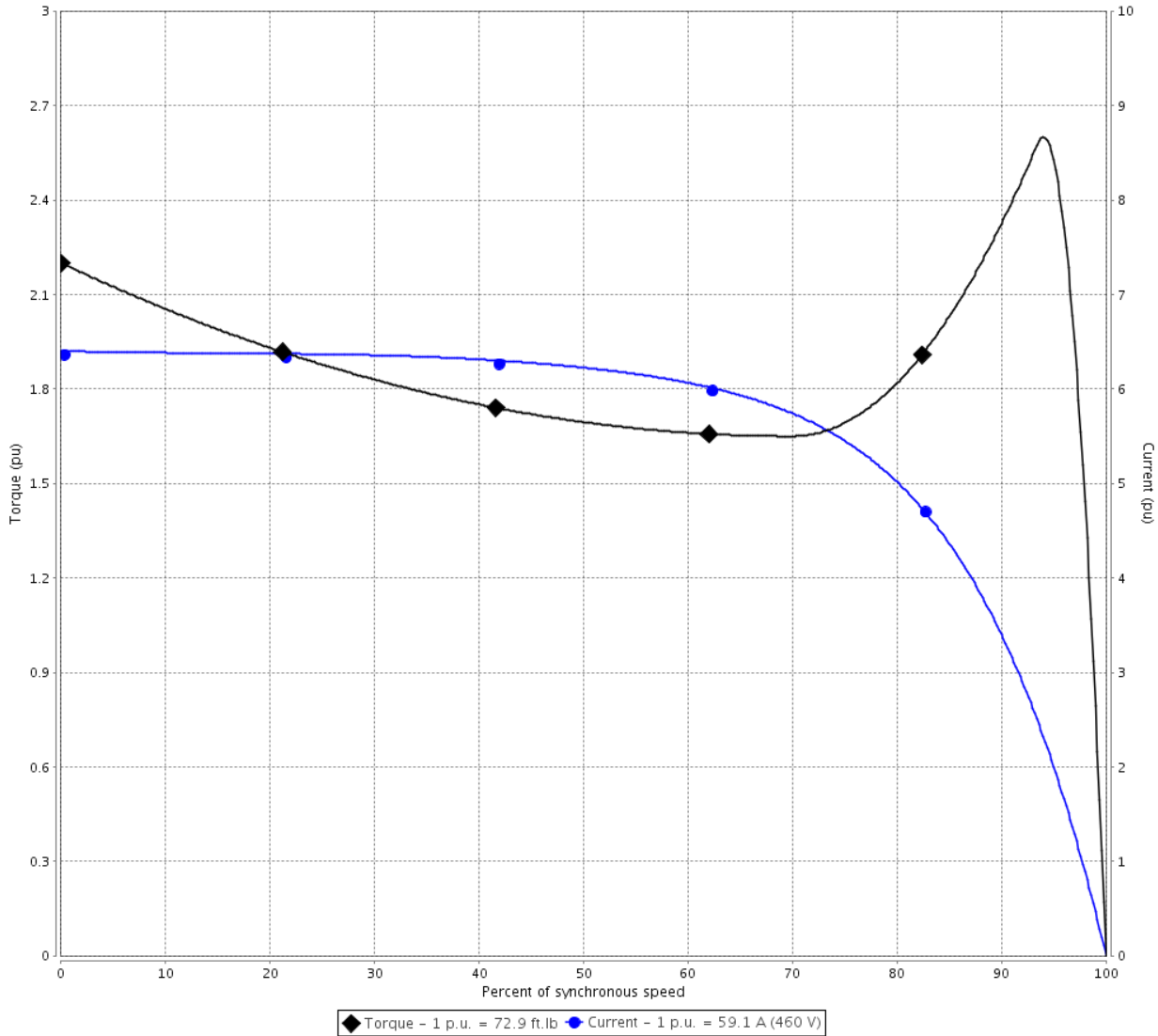
Customer :

Product line : ODP NEMA Premium Efficiency
Three-Phase

Product code : 11363554

Catalog # : 050360T3E324TSC

TORQUE AND CURRENT VS SPEED CURVE



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

Rated current	: 131-118/59.1 A	Moment of inertia (J)	: 3.83 sq.ft.lb
LRC	: 6.4	Duty cycle	: Cont.(S1)
Rated torque	: 72.9 ft.lb	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.15
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 3555 rpm	Design	: B

Locked rotor time : 50s (cold) 28s (hot)

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TORQUE AND CURRENT VS SPEED CURVE



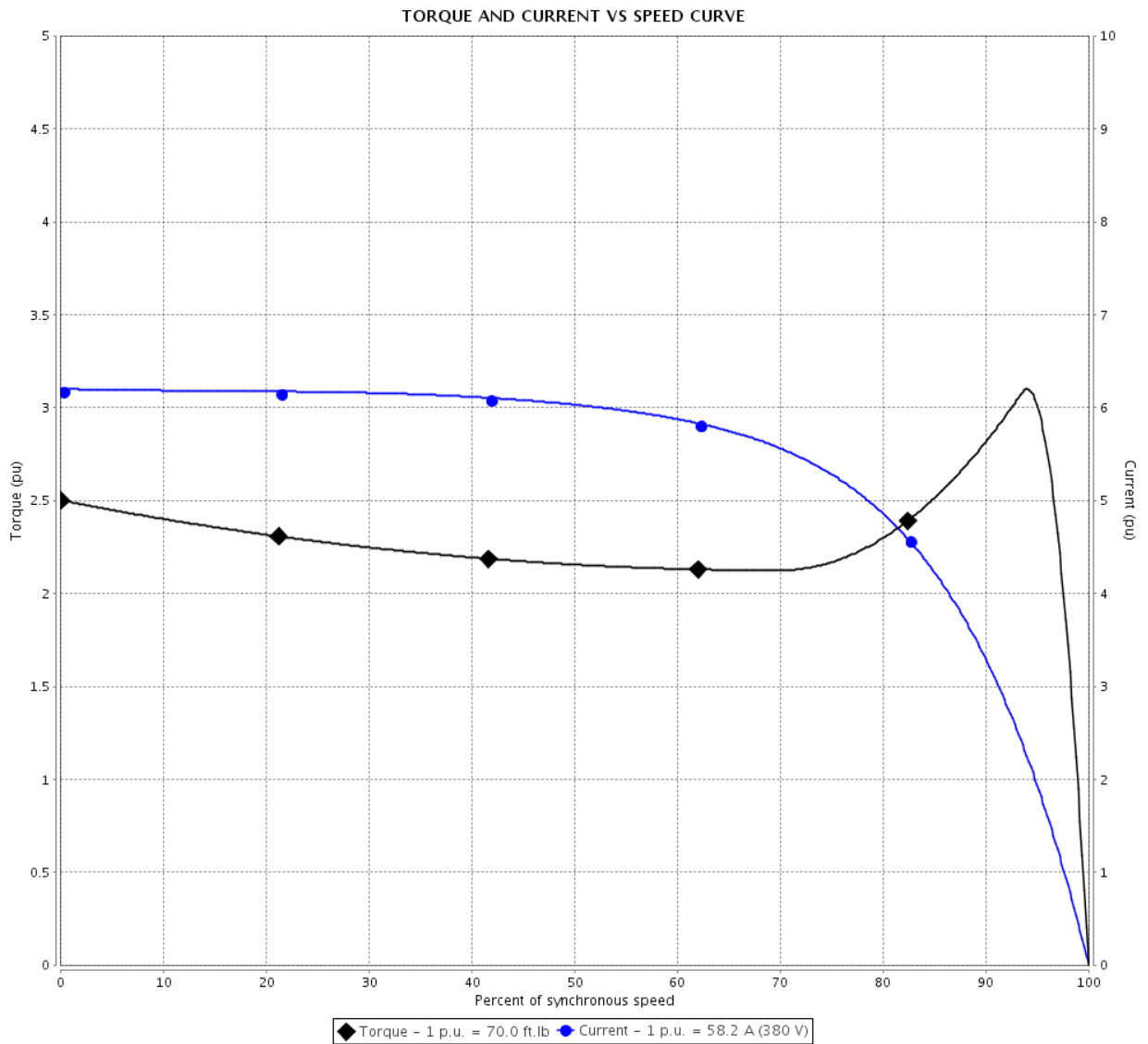
Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : ODP NEMA Premium Efficiency
Three-Phase

Product code : 11363554

Catalog # : 05036OT3E324TSC



Performance : 380 V 50 Hz 2P IE3

Rated current : 58.2 A
LRC : 6.2
Rated torque : 70.0 ft.lb
Locked rotor torque : 250 %
Breakdown torque : 310 %
Rated speed : 2960 rpm

Moment of inertia (J) : 3.83 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

Locked rotor time : 54s (cold) 30s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



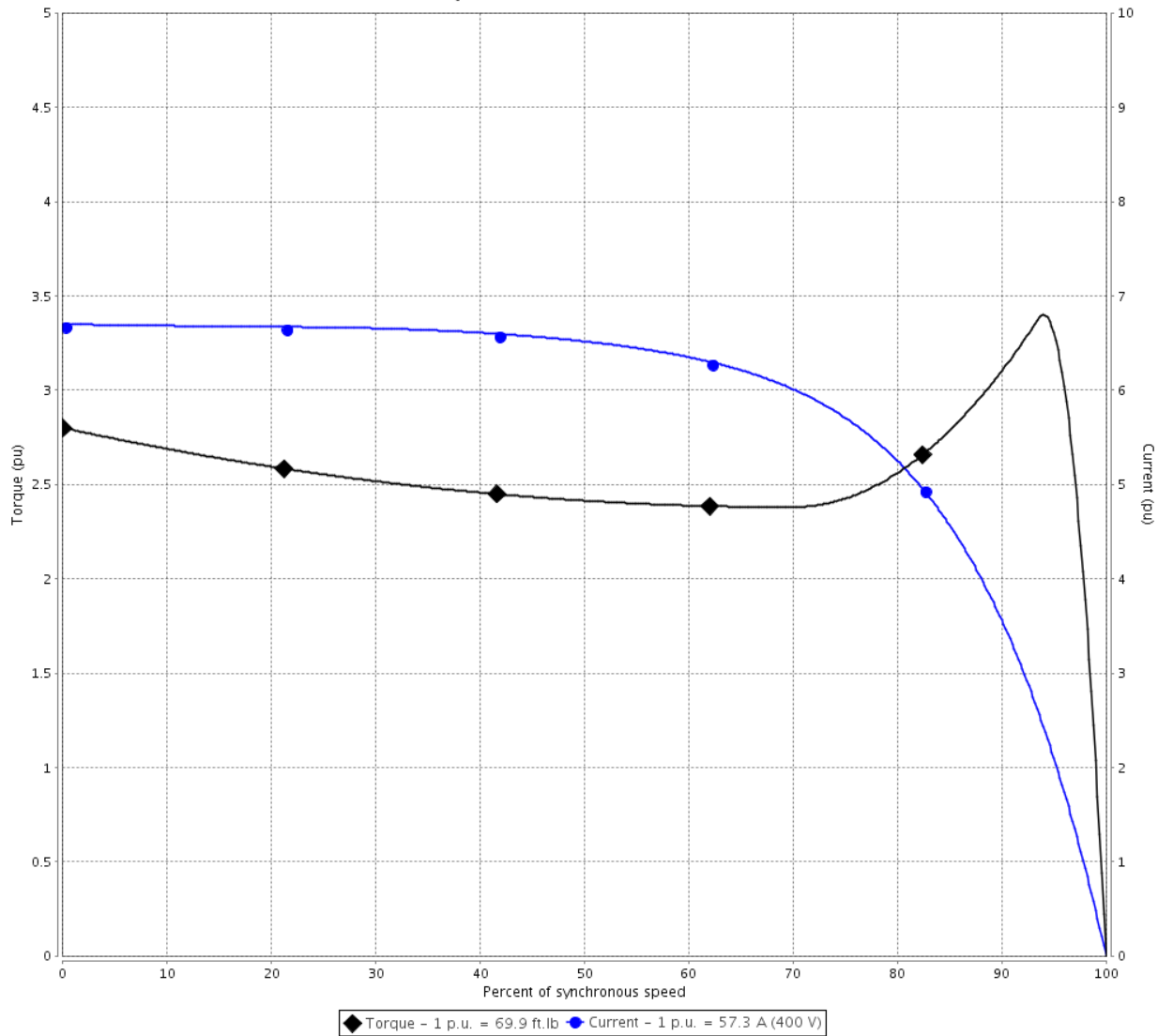
Customer :

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Product code : 11363554

Catalog # : 05036OT3E324TSC

TORQUE AND CURRENT VS SPEED CURVE



Performance : 400 V 50 Hz 2P IE3

Rated current	: 57.3 A	Moment of inertia (J)	: 3.83 sq.ft.lb
LRC	: 6.7	Duty cycle	: Cont.(S1)
Rated torque	: 69.9 ft.lb	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	: 1.15
Breakdown torque	: 340 %	Temperature rise	: 80 K
Rated speed	: 2965 rpm	Design	: B

Locked rotor time : 48s (cold) 27s (hot)

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TORQUE AND CURRENT VS SPEED CURVE



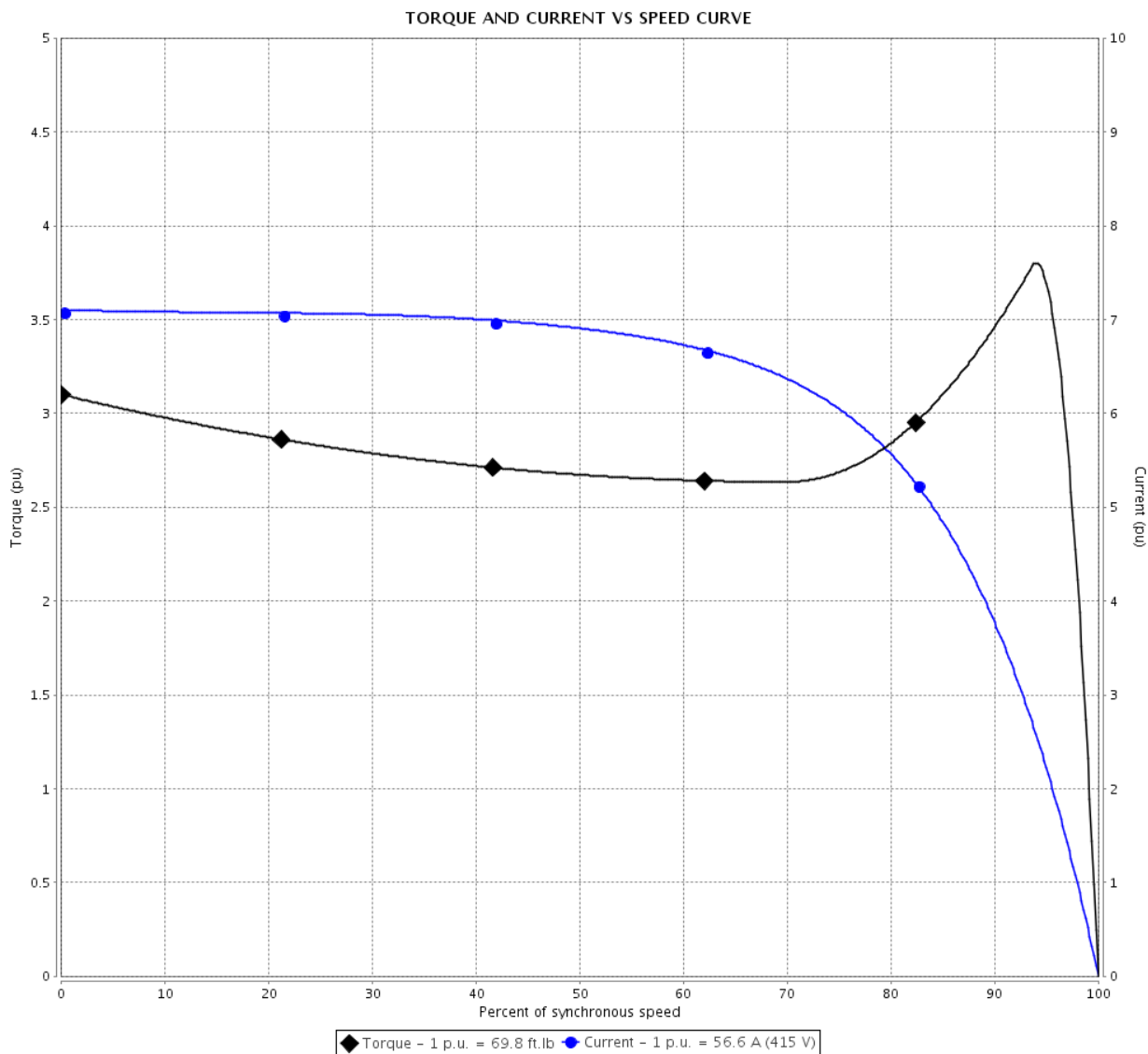
Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 11363554

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Performance : 415 V 50 Hz 2P IE3

Rated current	: 56.6 A	Moment of inertia (J)	: 3.83 sq.ft.lb
LRC	: 7.1	Duty cycle	: Cont.(S1)
Rated torque	: 69.8 ft.lb	Insulation class	: F
Locked rotor torque	: 310 %	Service factor	: 1.15
Breakdown torque	: 380 %	Temperature rise	: 80 K
Rated speed	: 2970 rpm	Design	: B

Locked rotor time : 45s (cold) 25s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

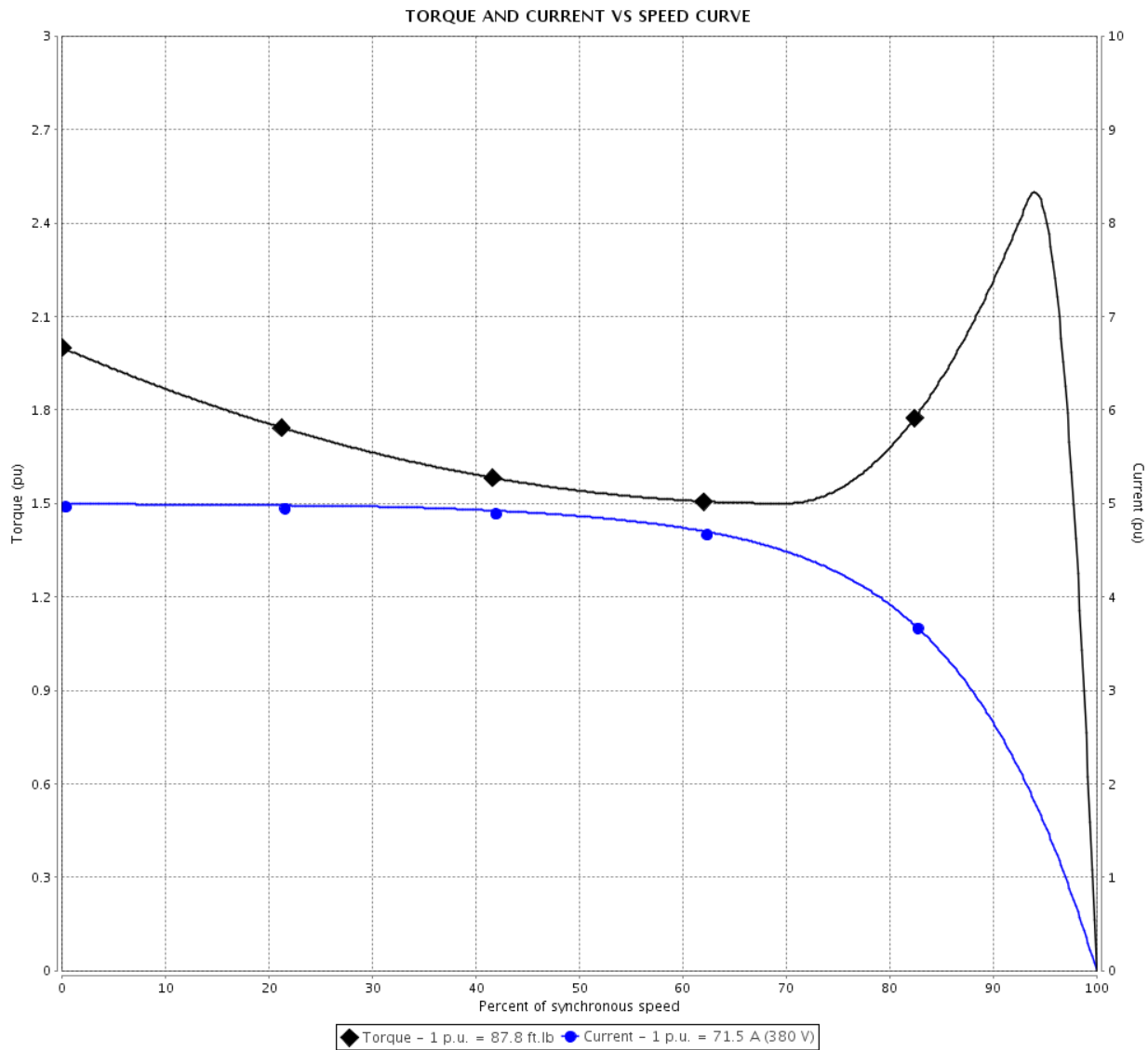


Customer :

Product line : ODP NEMA Premium Efficiency
Three-Phase

Product code : 11363554

Catalog # : 05036OT3E324TSC



Performance : 380 V 50 Hz 2P IE2

Rated current	: 71.5 A	Moment of inertia (J)	: 3.83 sq.ft.lb
LRC	: 5.0	Duty cycle	: Cont.(S1)
Rated torque	: 87.8 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 2950 rpm	Design	: B

Locked rotor time : 54s (cold) 30s (hot)

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TORQUE AND CURRENT VS SPEED CURVE



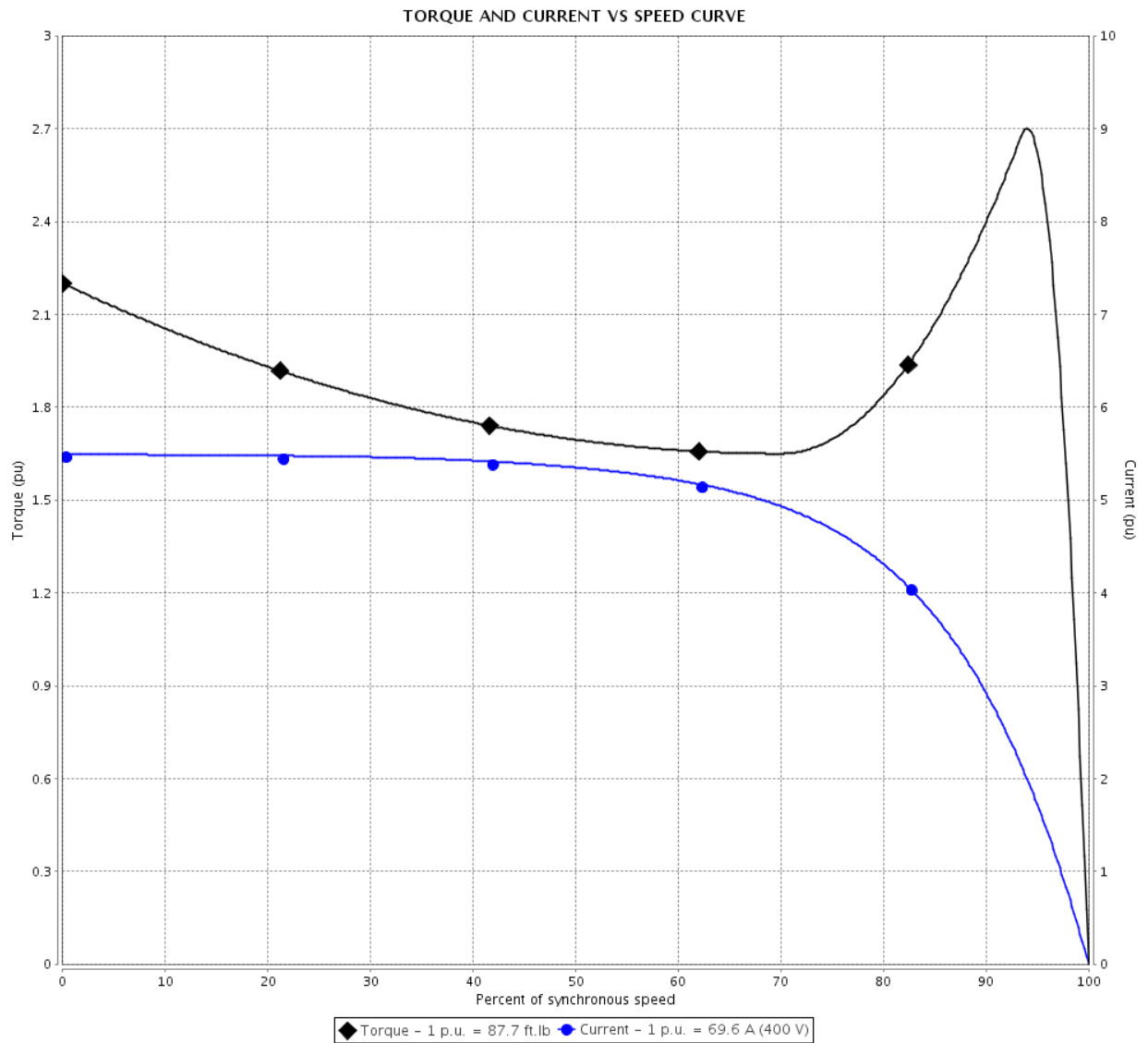
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Performance : 400 V 50 Hz 2P IE2

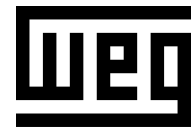
Rated current	: 69.6 A	Moment of inertia (J)	: 3.83 sq.ft.lb
LRC	: 5.5	Duty cycle	: Cont.(S1)
Rated torque	: 87.7 ft.lb	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.15
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 2955 rpm	Design	: B

Locked rotor time : 48s (cold) 27s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

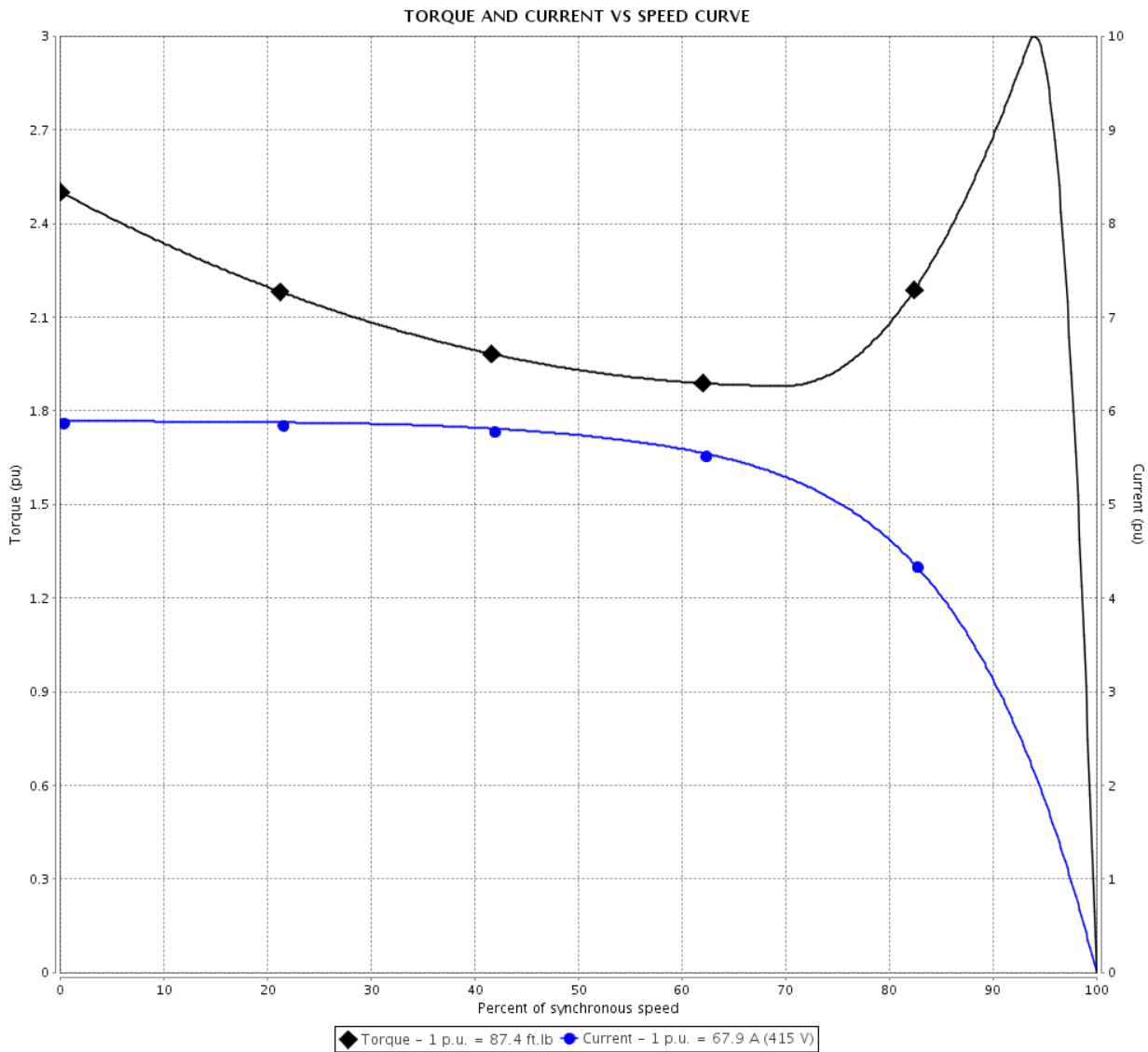


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Product code : 11363554

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Performance : 415 V 50 Hz 2P IE2

Rated current	: 67.9 A	Moment of inertia (J)	: 3.83 sq.ft.lb
LRC	: 5.9	Duty cycle	: Cont.(S1)
Rated torque	: 87.4 ft.lb	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 2965 rpm	Design	: B

Locked rotor time : 45s (cold) 25s (hot)

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Three Phase Induction Motor - Squirrel Cage

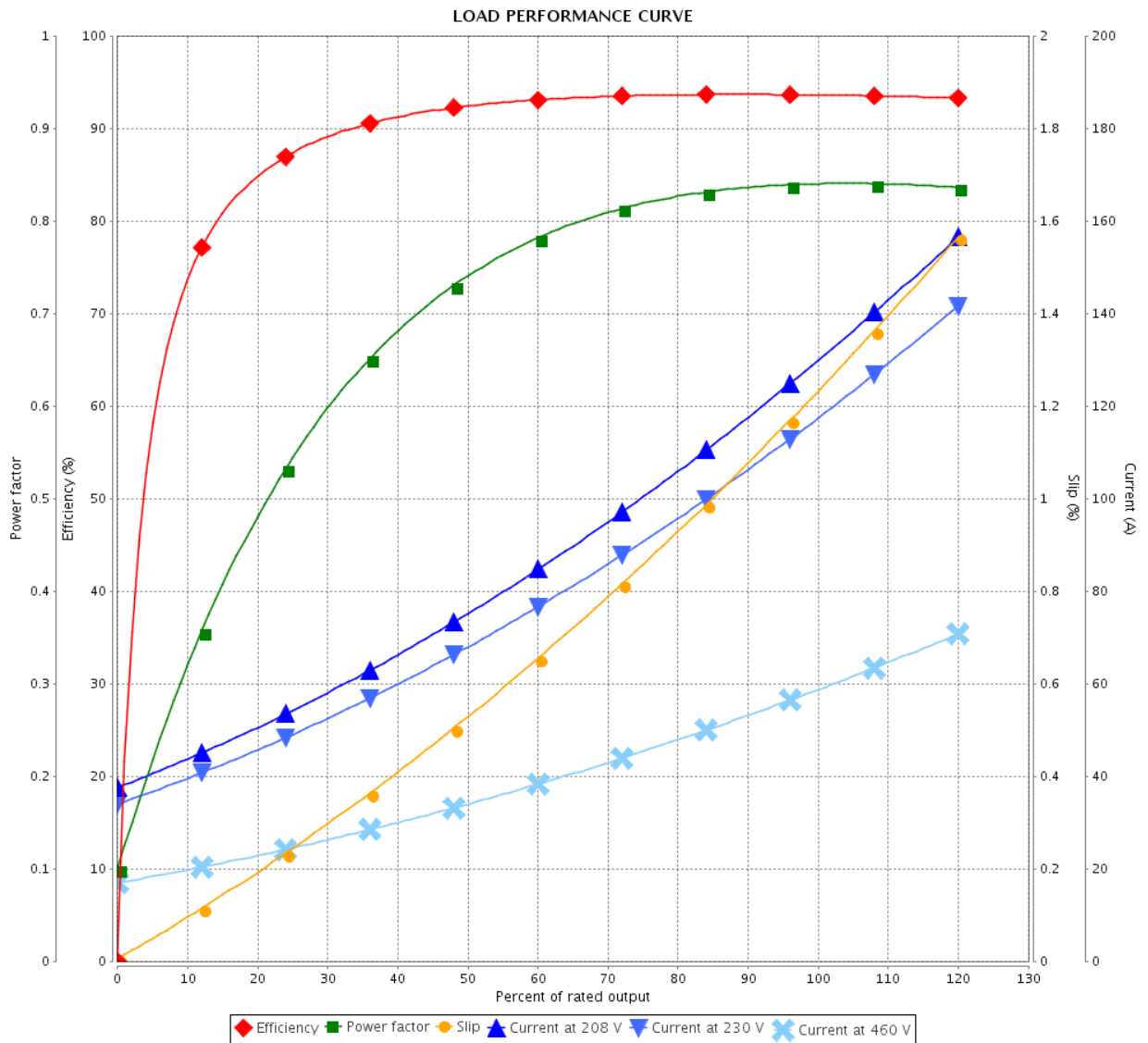


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Product code : 11363554

Catalog # : 05036OT3E324TSC



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

Rated current : 131-118/59.1 A
 LRC : 6.4
 Rated torque : 72.9 ft.lb
 Locked rotor torque : 220 %
 Breakdown torque : 260 %
 Rated speed : 3555 rpm

Moment of inertia (J) : 3.83 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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Three Phase Induction Motor - Squirrel Cage

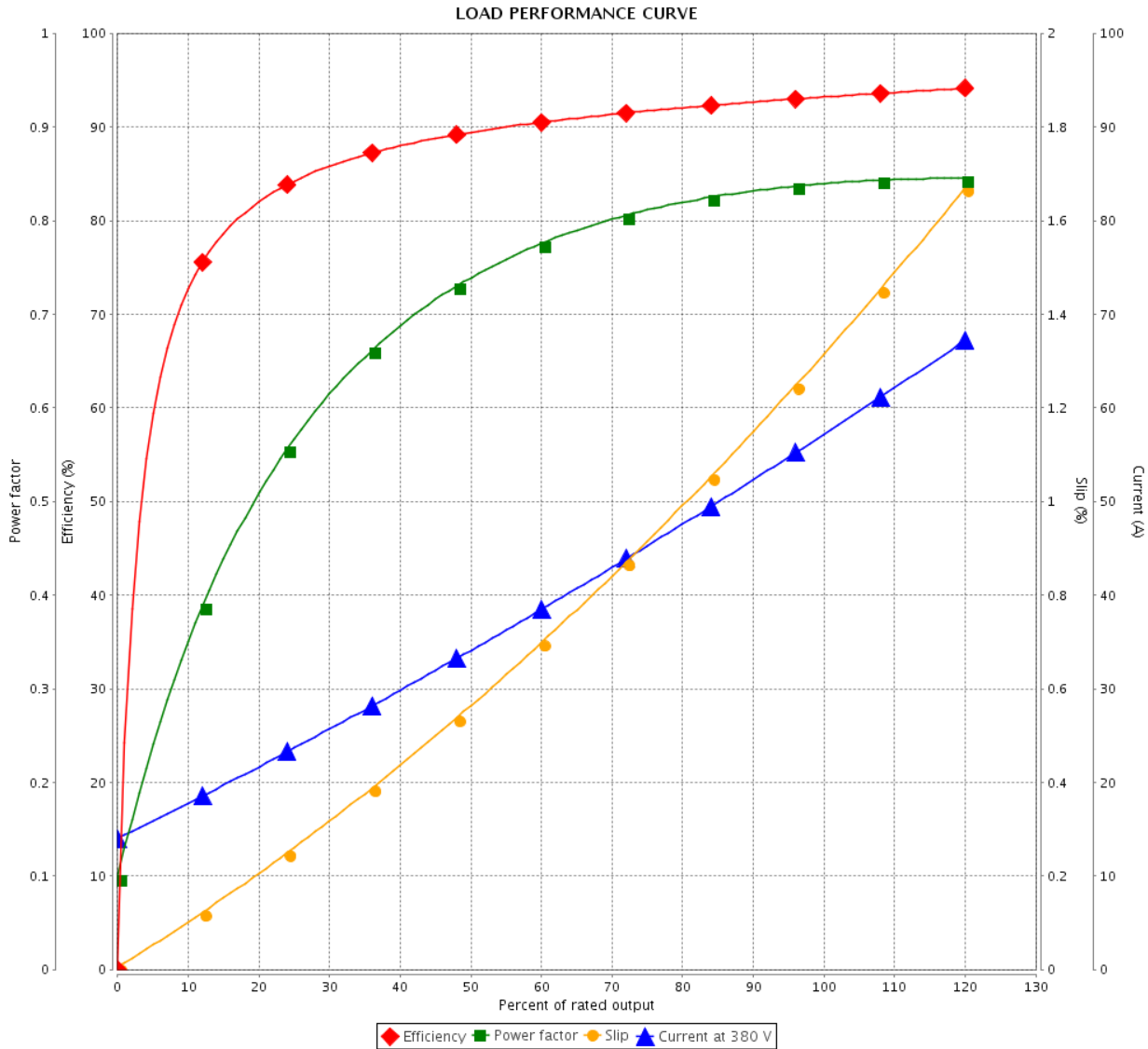


Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 11363554

Catalog # : 05036OT3E324TSC



Performance : 380 V 50 Hz 2P IE3

Rated current : 58.2 A
 LRC : 6.2
 Rated torque : 70.0 ft.lb
 Locked rotor torque : 250 %
 Breakdown torque : 310 %
 Rated speed : 2960 rpm

Moment of inertia (J) : 3.83 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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Three Phase Induction Motor - Squirrel Cage

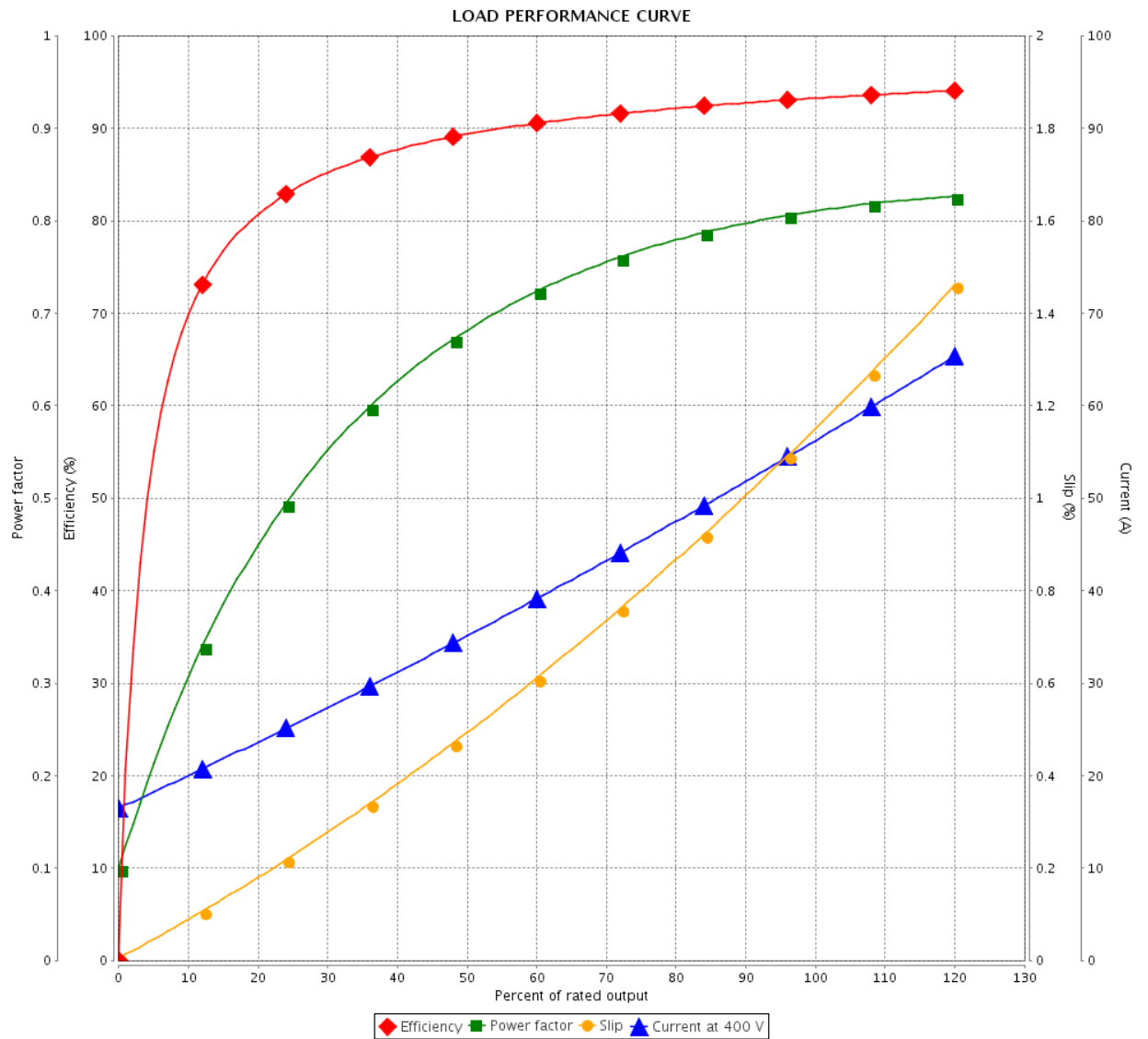


Customer :

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Three-Phase

Product code : 11363554

Catalog # : 05036OT3E324TSC



Performance : 400 V 50 Hz 2P IE3

Rated current : 57.3 A
LRC : 6.7
Rated torque : 69.9 ft.lb
Locked rotor torque : 280 %
Breakdown torque : 340 %
Rated speed : 2965 rpm

Moment of inertia (J) : 3.83 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

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Three Phase Induction Motor - Squirrel Cage

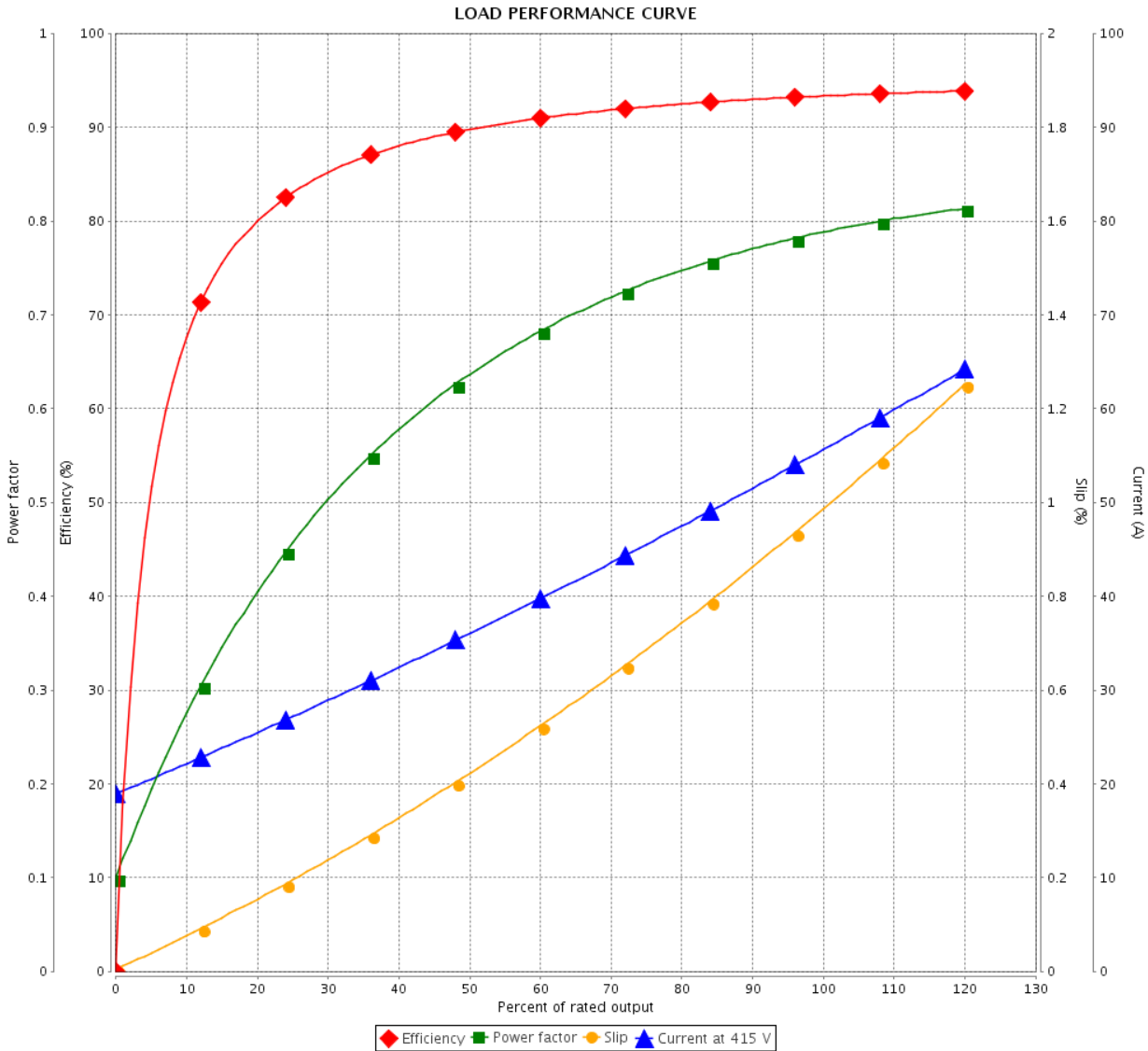


Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 11363554

Catalog # : 05036OT3E324TSC



Performance : 415 V 50 Hz 2P IE3

Rated current : 56.6 A
 LRC : 7.1
 Rated torque : 69.8 ft.lb
 Locked rotor torque : 310 %
 Breakdown torque : 380 %
 Rated speed : 2970 rpm

Moment of inertia (J) : 3.83 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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Three Phase Induction Motor - Squirrel Cage

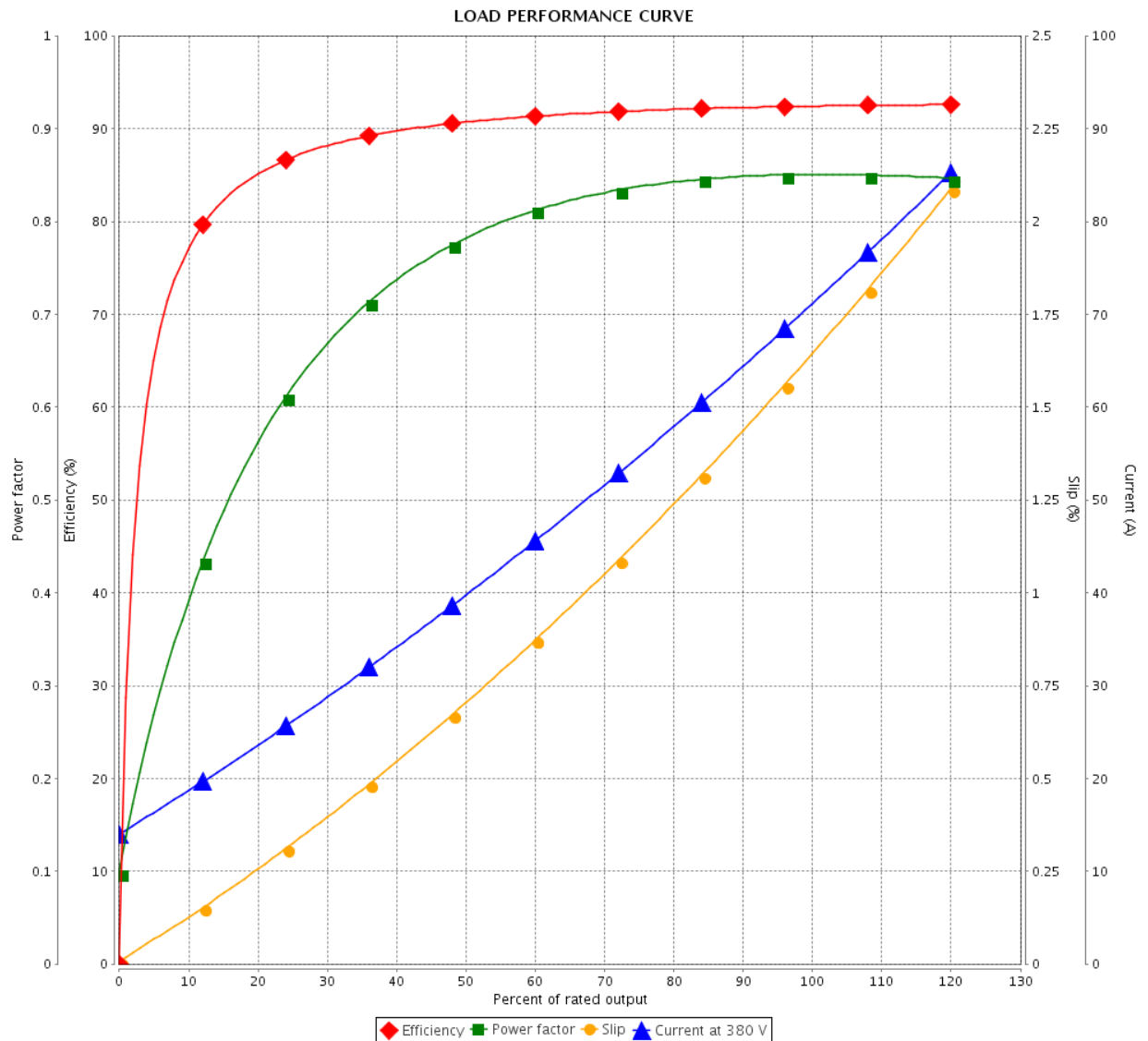


Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 11363554

Catalog # : 05036OT3E324TSC



Performance : 380 V 50 Hz 2P IE2

Rated current : 71.5 A
 LRC : 5.0
 Rated torque : 87.8 ft.lb
 Locked rotor torque : 200 %
 Breakdown torque : 250 %
 Rated speed : 2950 rpm

Moment of inertia (J) : 3.83 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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Three Phase Induction Motor - Squirrel Cage

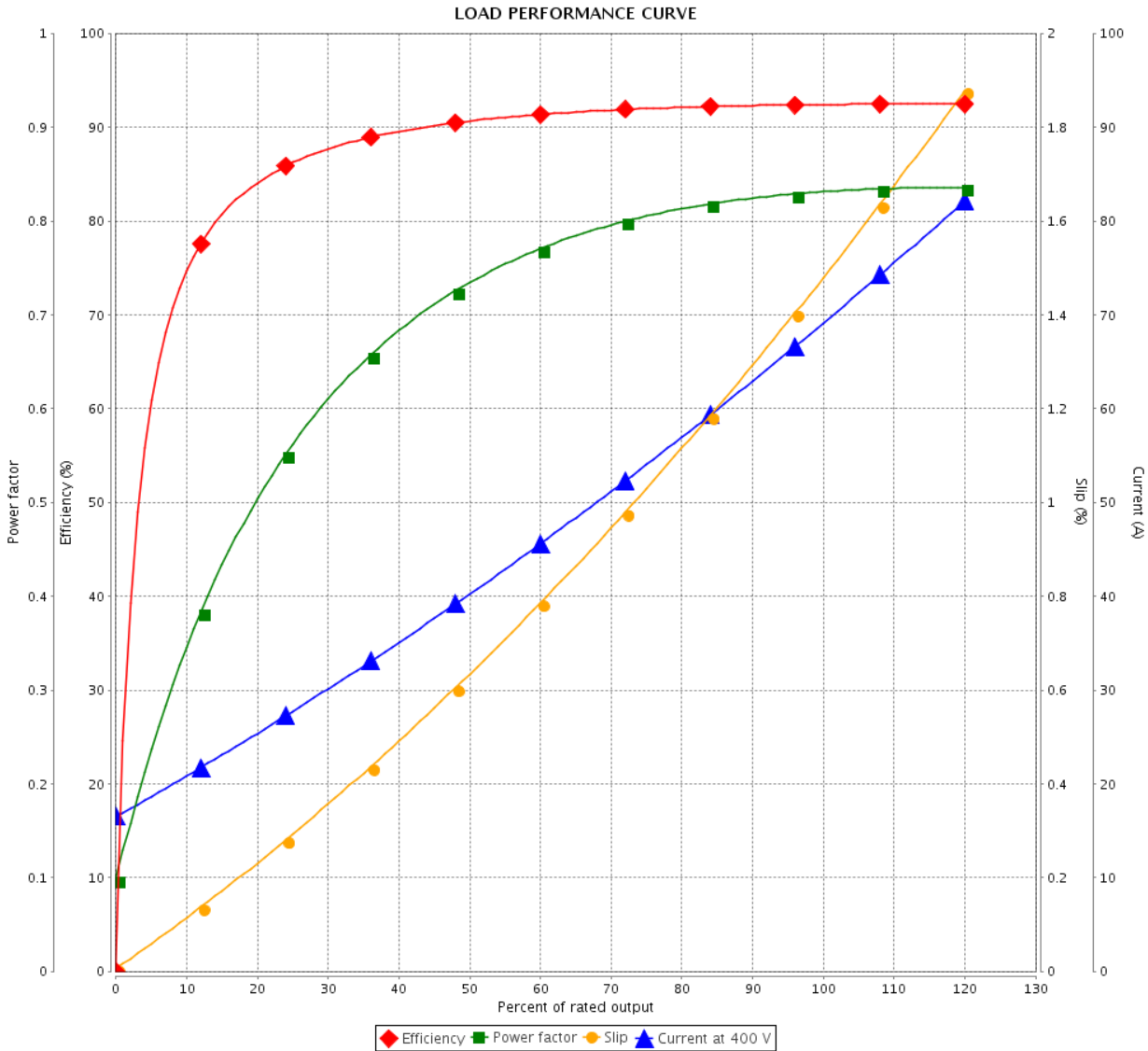


Customer :

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Product code : 11363554

Catalog # : 05036OT3E324TSC



Performance : 400 V 50 Hz 2P IE2

Rated current : 69.6 A
 LRC : 5.5
 Rated torque : 87.7 ft.lb
 Locked rotor torque : 220 %
 Breakdown torque : 270 %
 Rated speed : 2955 rpm

Moment of inertia (J) : 3.83 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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Three Phase Induction Motor - Squirrel Cage

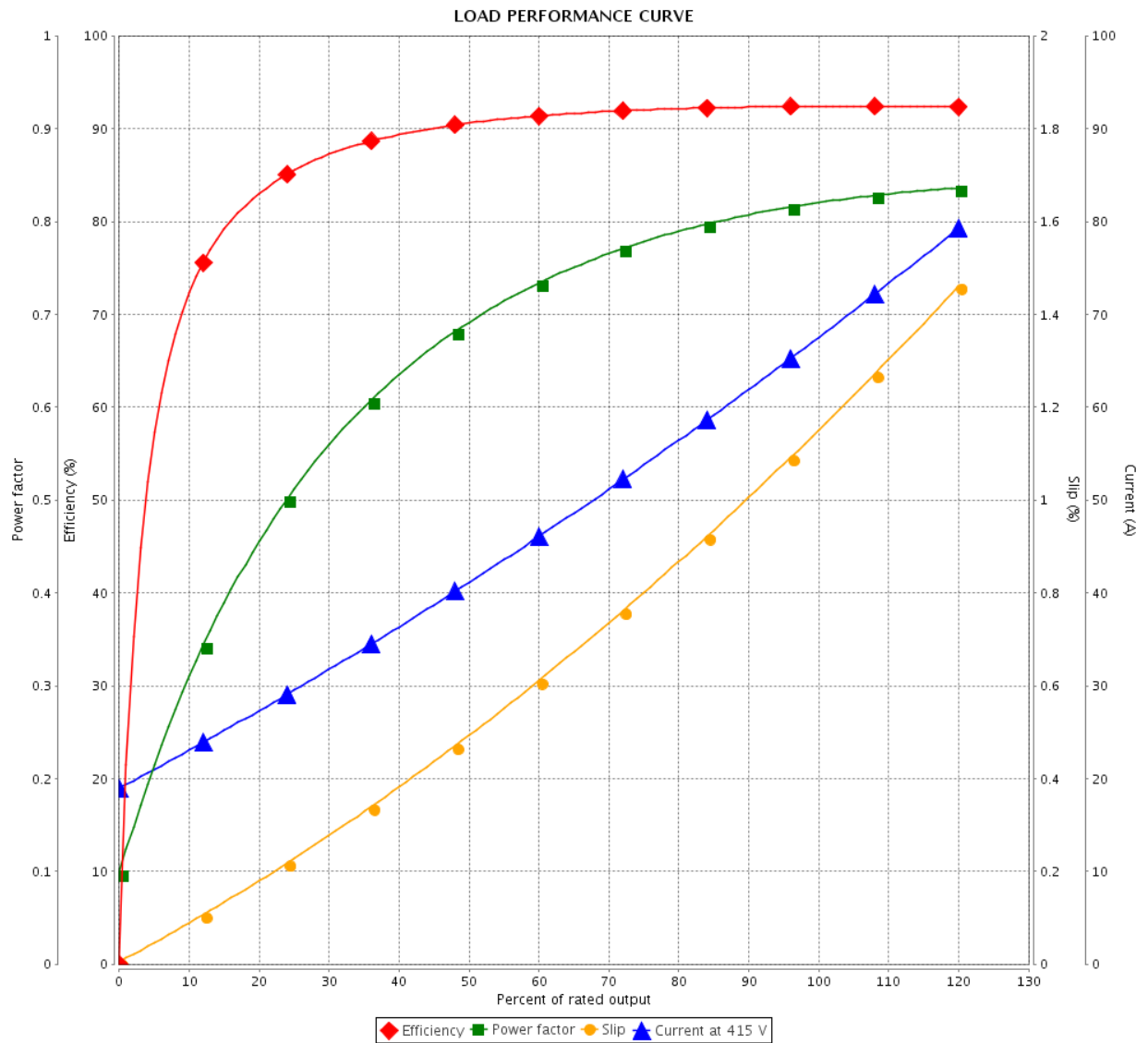


Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 11363554

Catalog # : 05036OT3E324TSC



Performance : 415 V 50 Hz 2P IE2

Rated current : 67.9 A
 LRC : 5.9
 Rated torque : 87.4 ft.lb
 Locked rotor torque : 250 %
 Breakdown torque : 300 %
 Rated speed : 2965 rpm

Moment of inertia (J) : 3.83 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

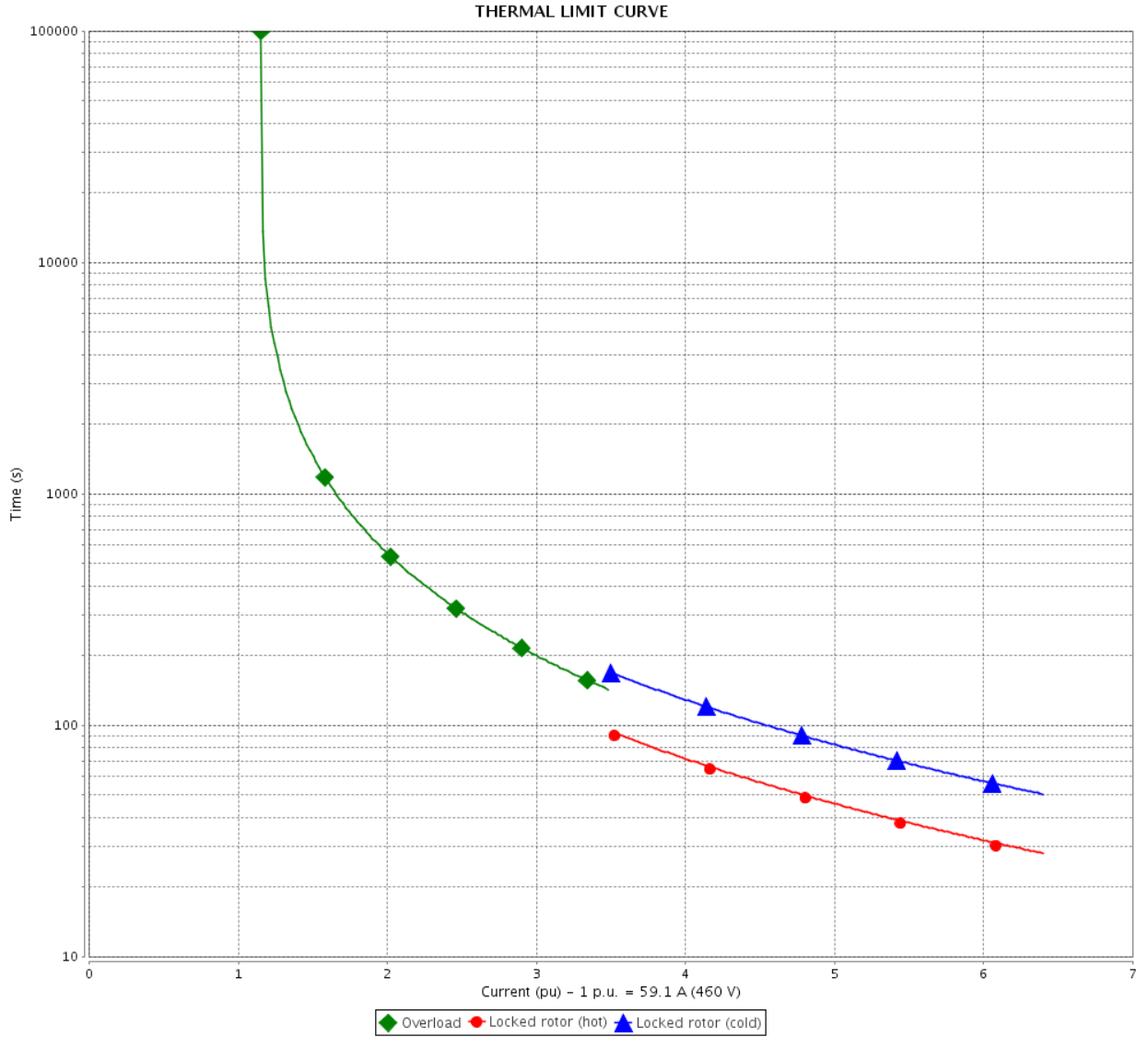
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



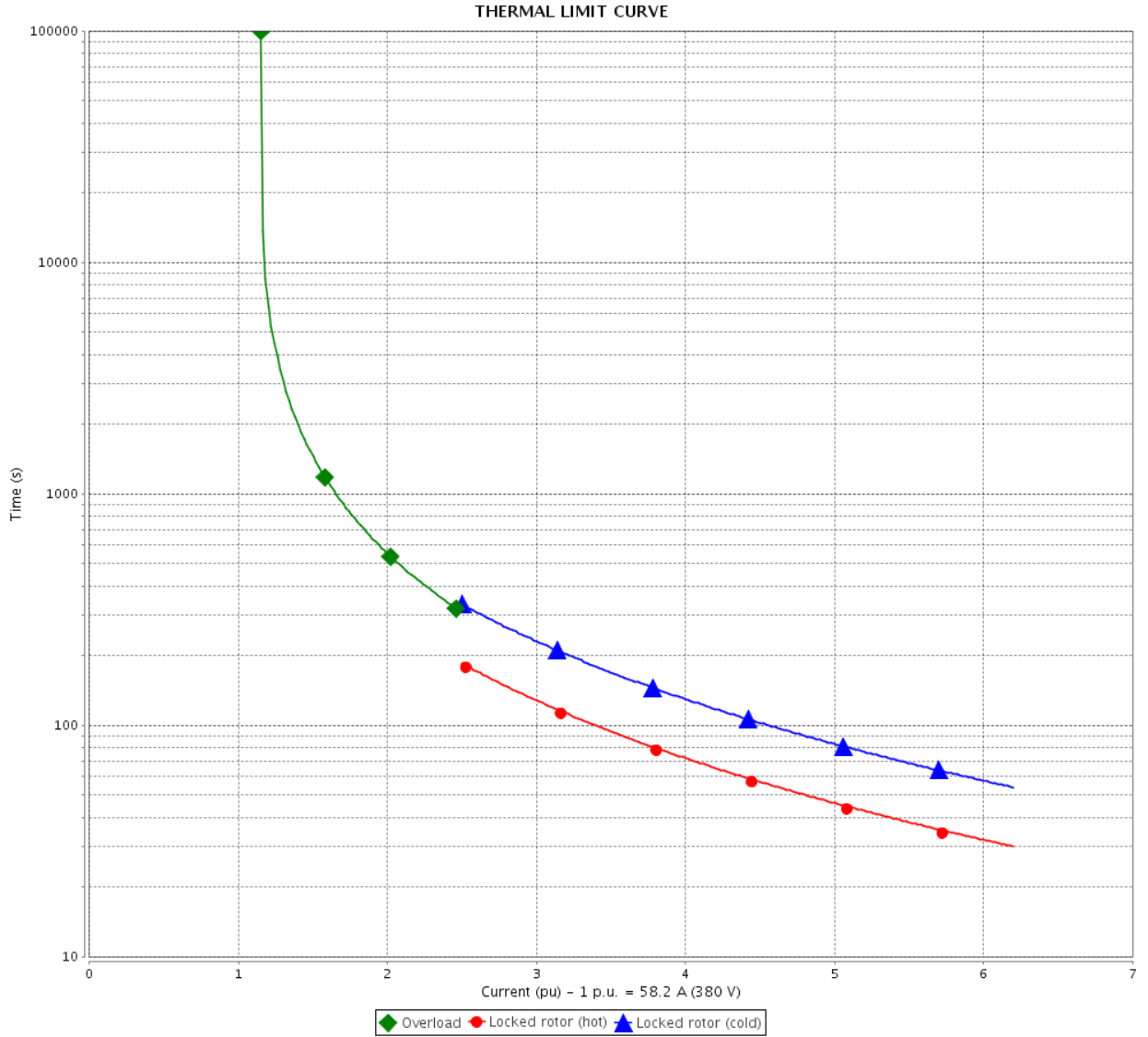
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



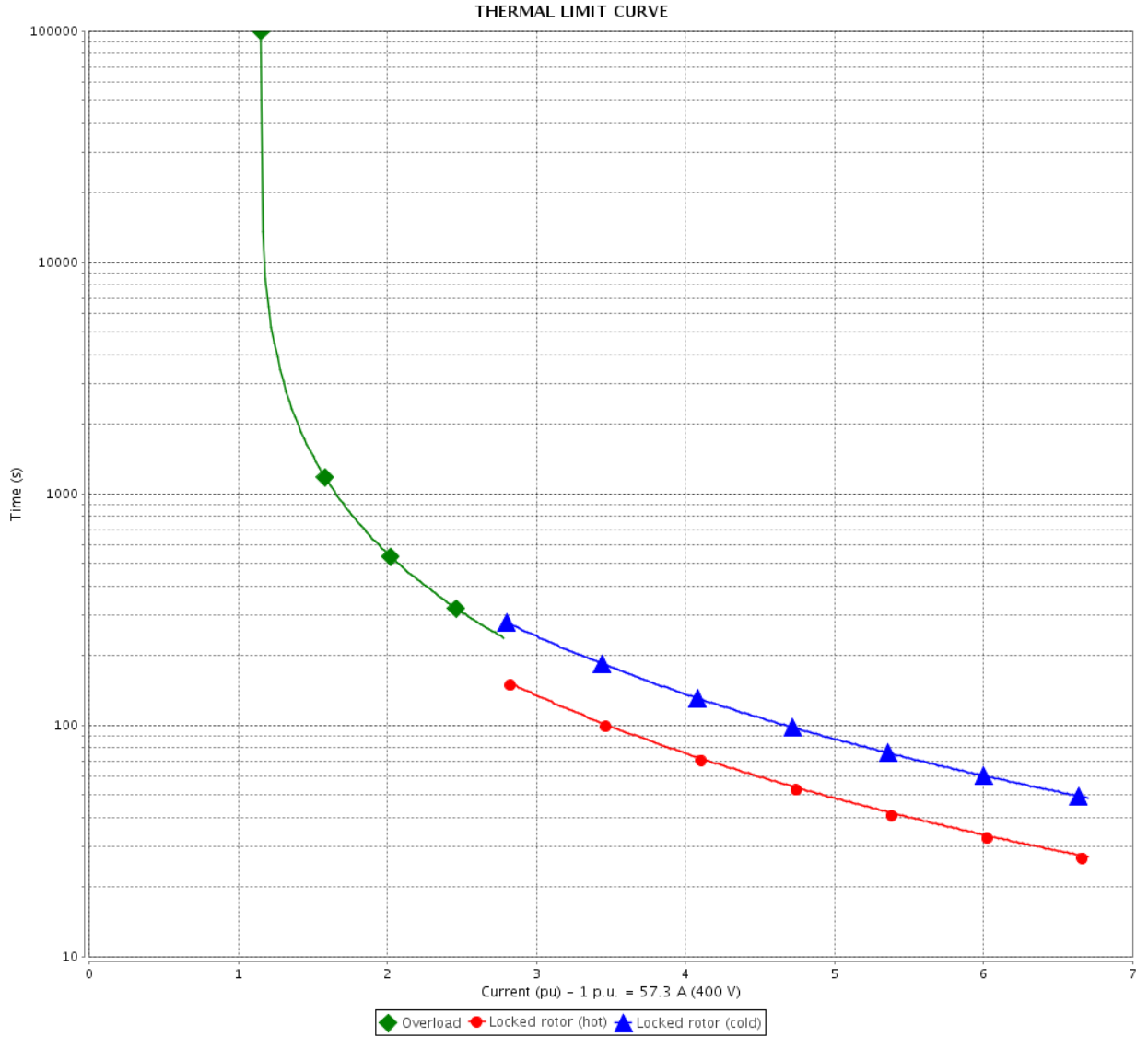
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



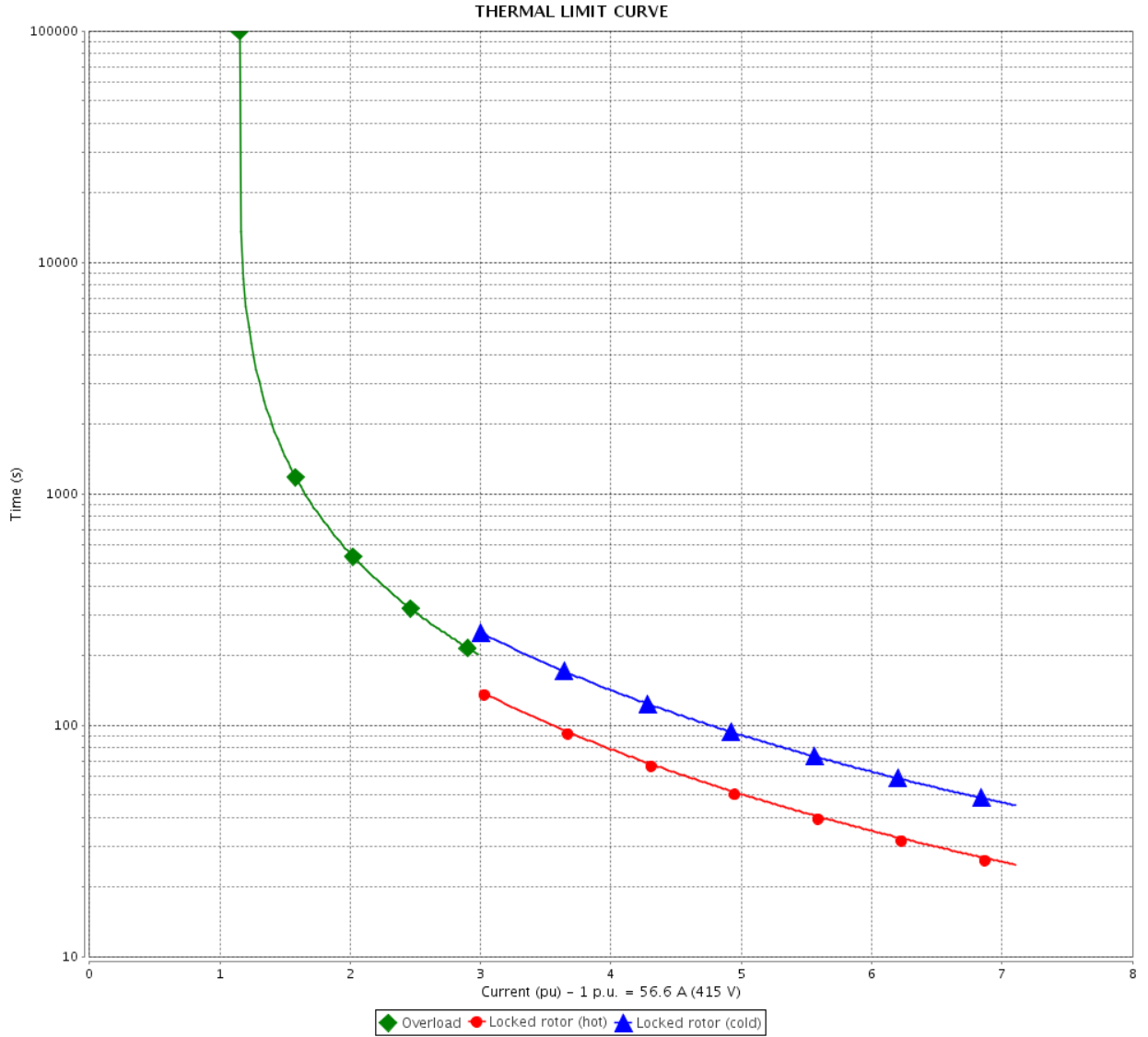
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



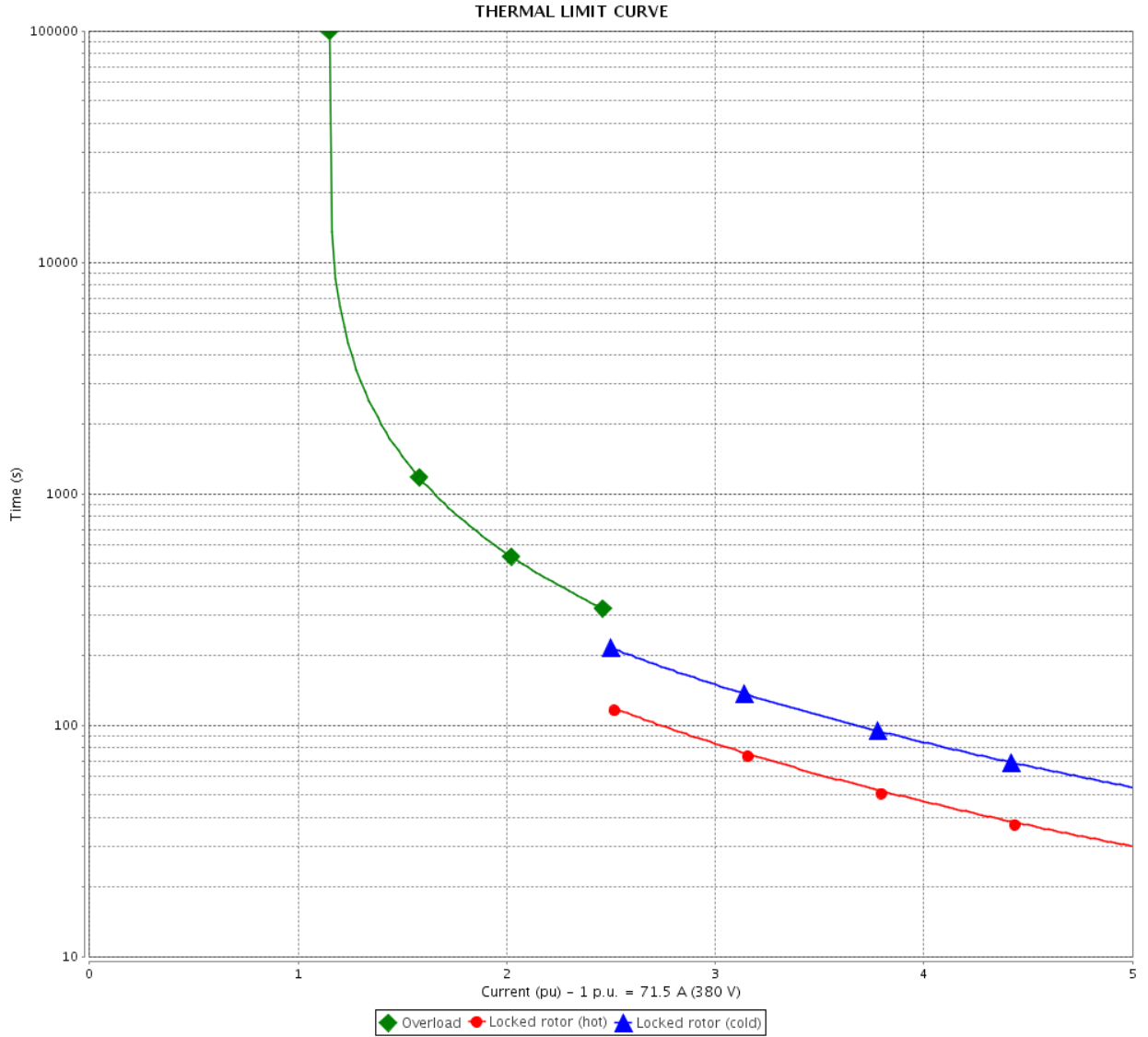
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



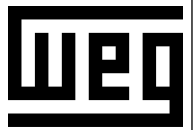
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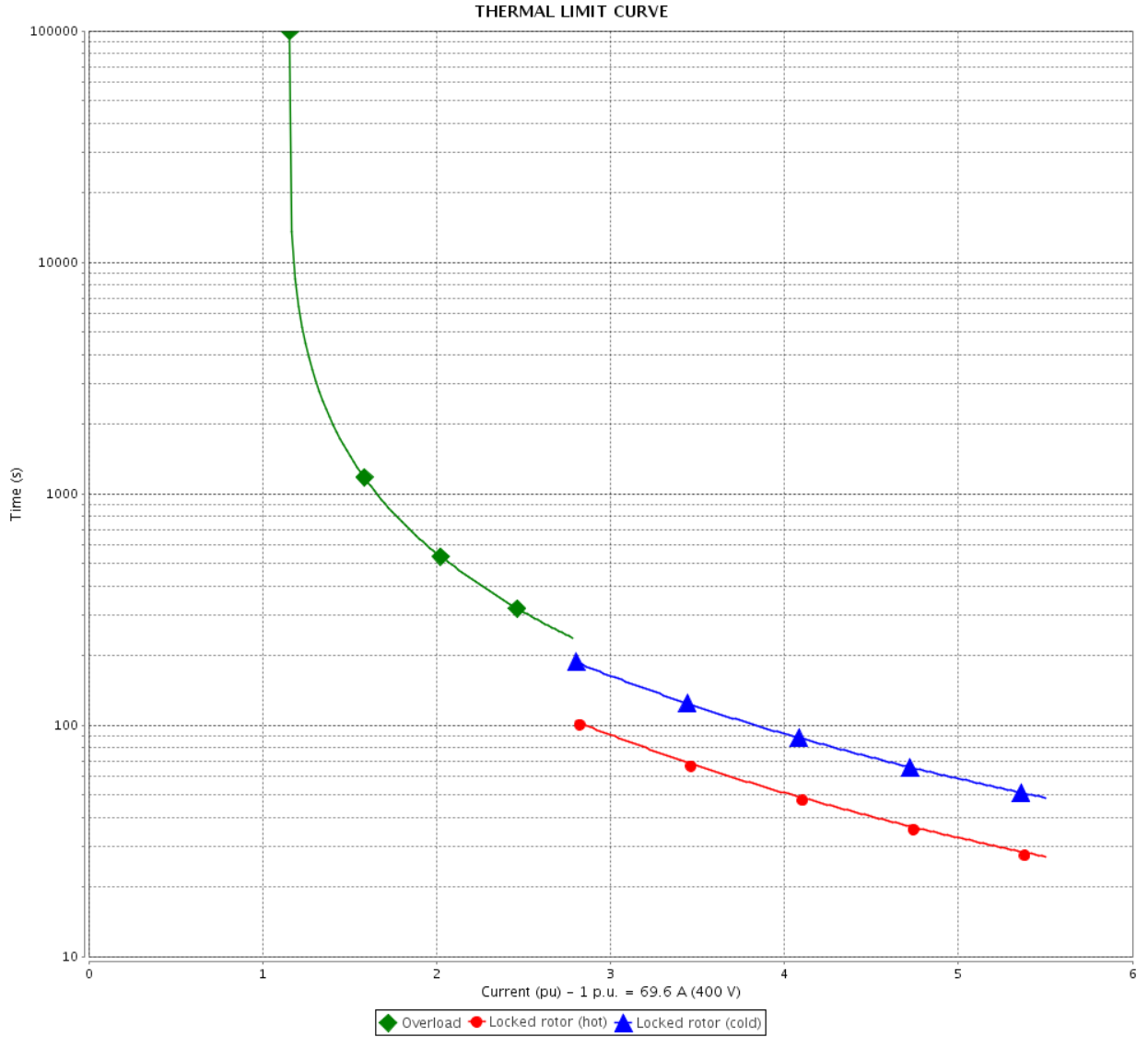
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



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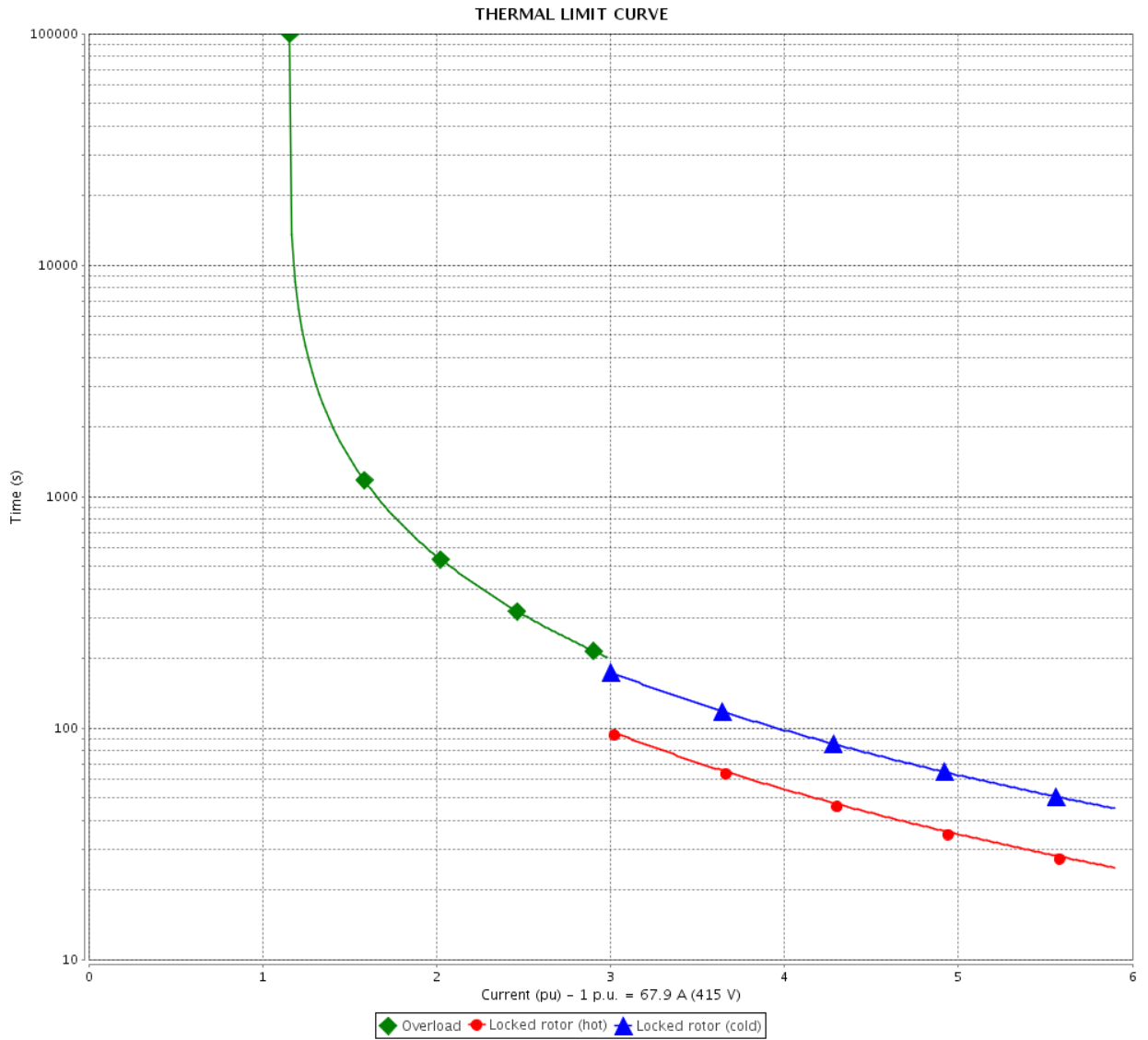
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

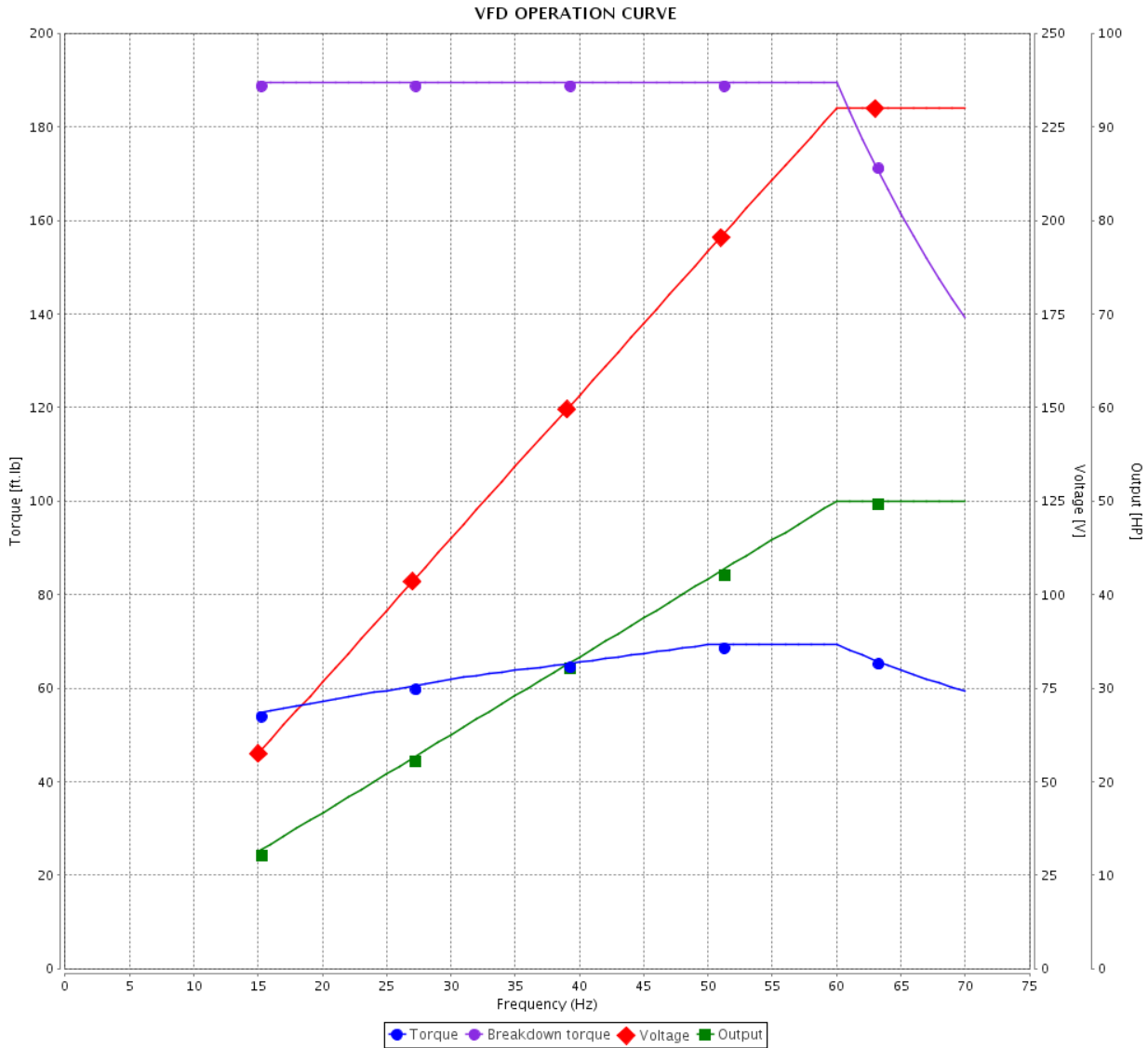


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Product code : 11363554

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

Rated current : 131-118/59.1 A
 LRC : 6.4
 Rated torque : 72.9 ft.lb
 Locked rotor torque : 220 %
 Breakdown torque : 260 %
 Rated speed : 3555 rpm

Moment of inertia (J) : 3.83 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

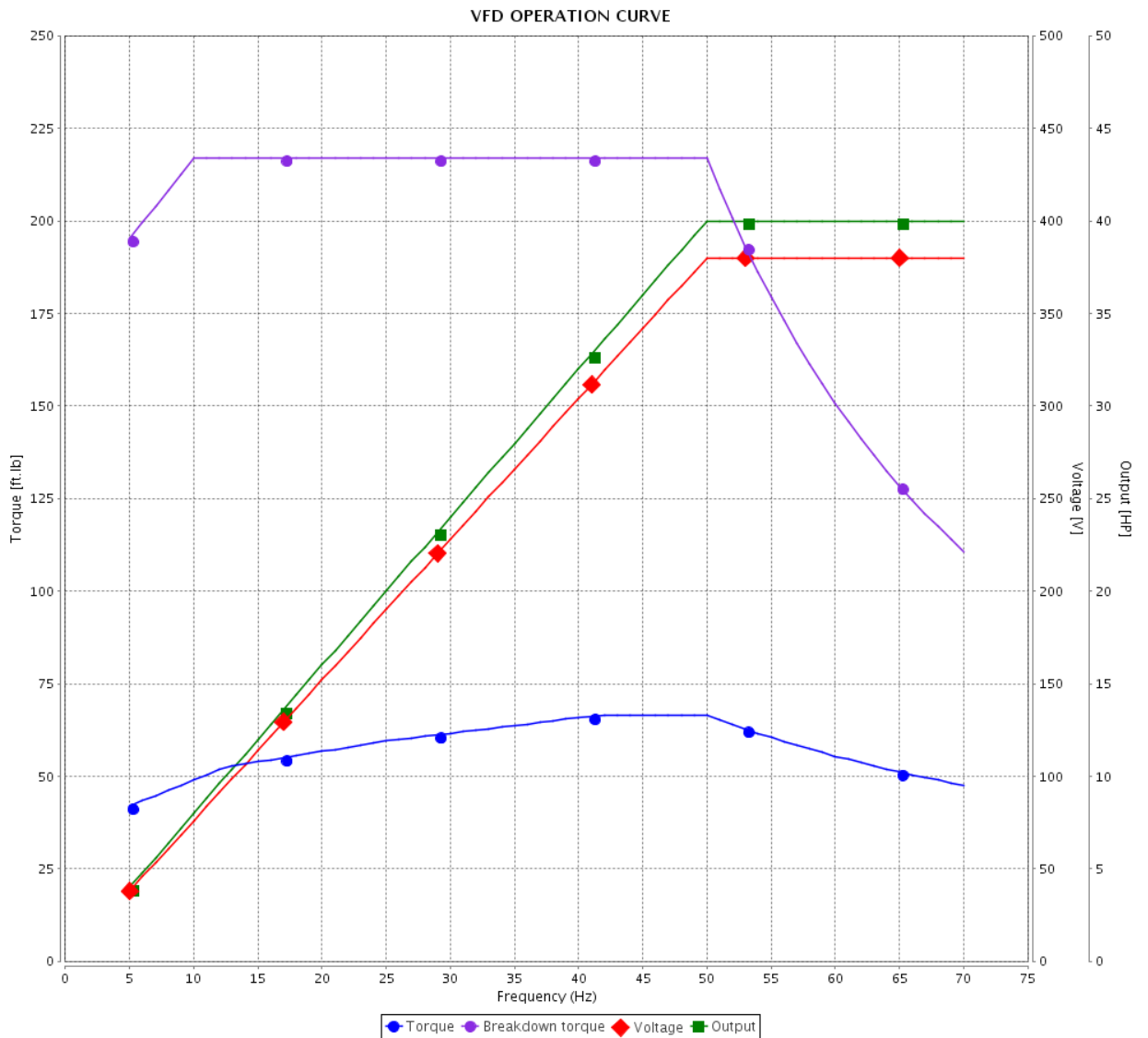


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Performance : 380 V 50 Hz 2P IE3

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Locked rotor torque : 250 %
Breakdown torque : 310 %
Rated speed : 2960 rpm

Moment of inertia (J) : 3.83 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

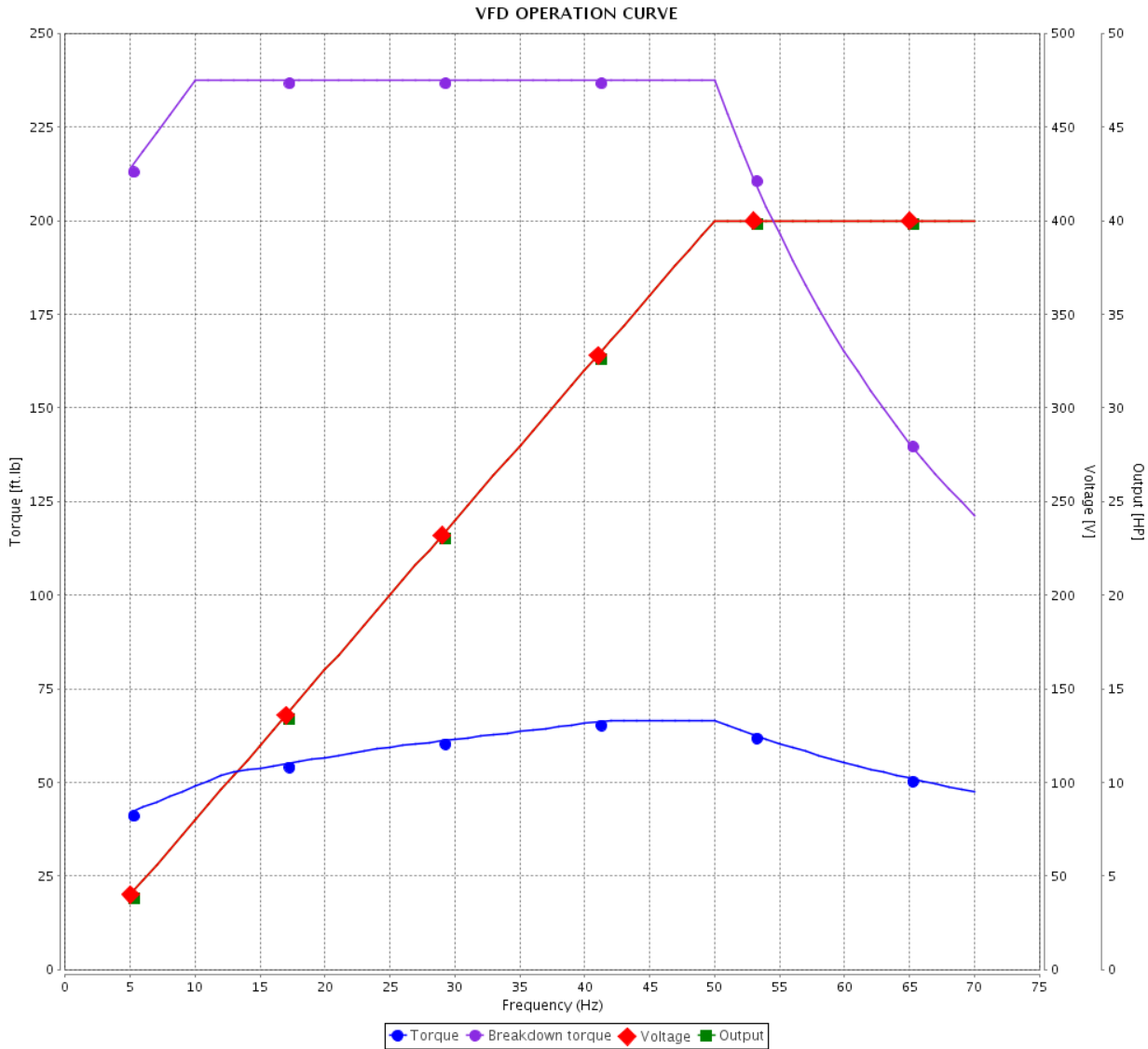


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Catalog # : 05036OT3E324TSC



Performance : 400 V 50 Hz 2P IE3

Rated current : 57.3 A
LRC : 6.7
Rated torque : 69.9 ft.lb
Locked rotor torque : 280 %
Breakdown torque : 340 %
Rated speed : 2965 rpm

Moment of inertia (J) : 3.83 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

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Checked by				
Date	08/11/2019			

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

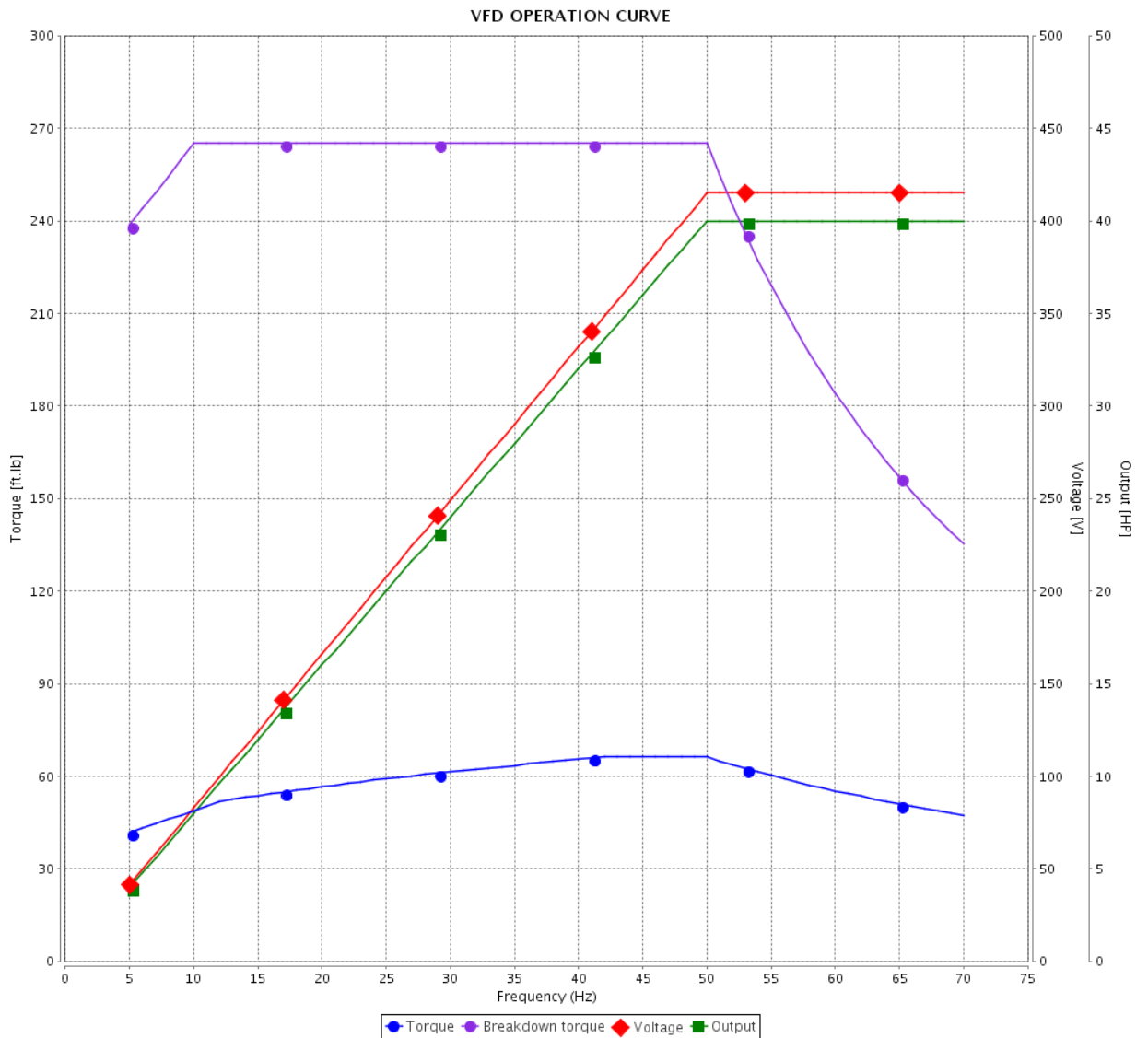


Customer :

Product line : ODP NEMA Premium Efficiency
Three-Phase

Product code : 11363554

Catalog # : 05036OT3E324TSC



Performance : 415 V 50 Hz 2P IE3

Rated current : 56.6 A
LRC : 7.1
Rated torque : 69.8 ft.lb
Locked rotor torque : 310 %
Breakdown torque : 380 %
Rated speed : 2970 rpm

Moment of inertia (J) : 3.83 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 33 / 36	Revision
Checked by				
Date	08/11/2019			

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

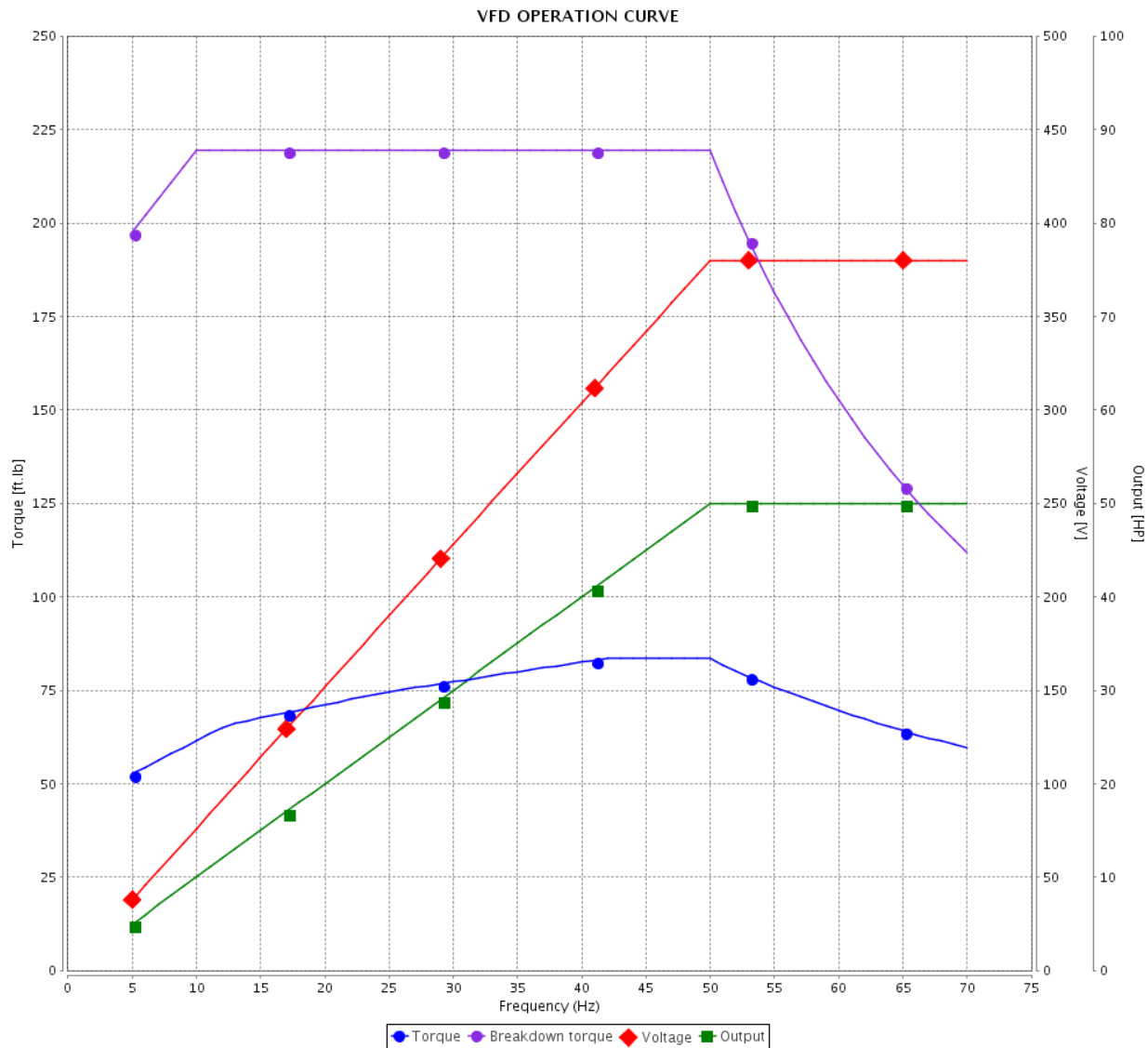


Customer :

Product line : ODP NEMA Premium Efficiency
Three-Phase

Product code : 11363554

Catalog # : 05036OT3E324TSC



Performance : 380 V 50 Hz 2P IE2

Rated current : 71.5 A
LRC : 5.0
Rated torque : 87.8 ft.lb
Locked rotor torque : 200 %
Breakdown torque : 250 %
Rated speed : 2950 rpm

Moment of inertia (J) : 3.83 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		34 / 36		
Date	08/11/2019			

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

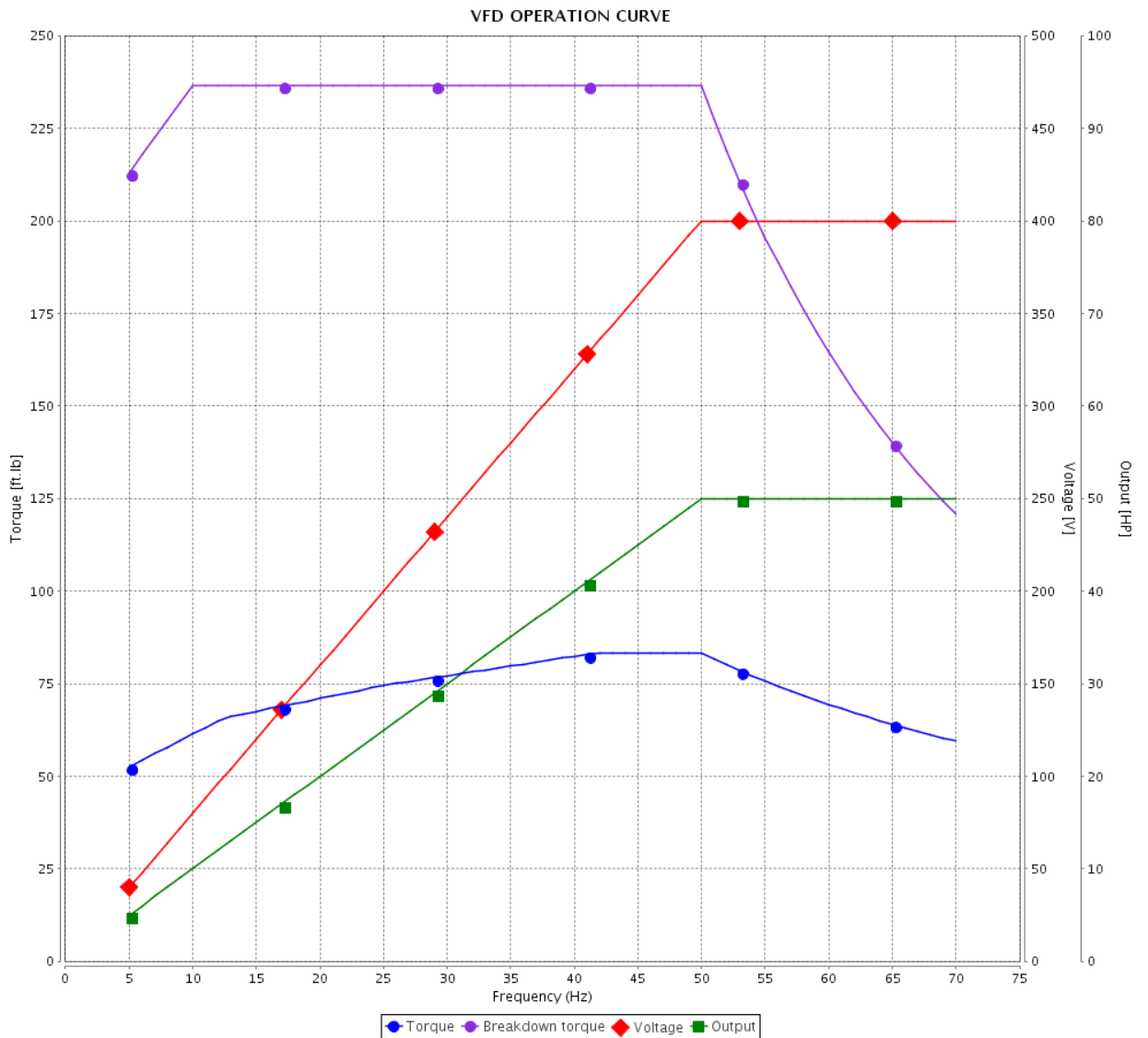


Customer :

Product line : ODP NEMA Premium Efficiency
Three-Phase

Product code : 11363554

Catalog # : 05036OT3E324TSC



Performance : 400 V 50 Hz 2P IE2

Rated current : 69.6 A
LRC : 5.5
Rated torque : 87.7 ft.lb
Locked rotor torque : 220 %
Breakdown torque : 270 %
Rated speed : 2955 rpm

Moment of inertia (J) : 3.83 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		35 / 36		
Date		08/11/2019		

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

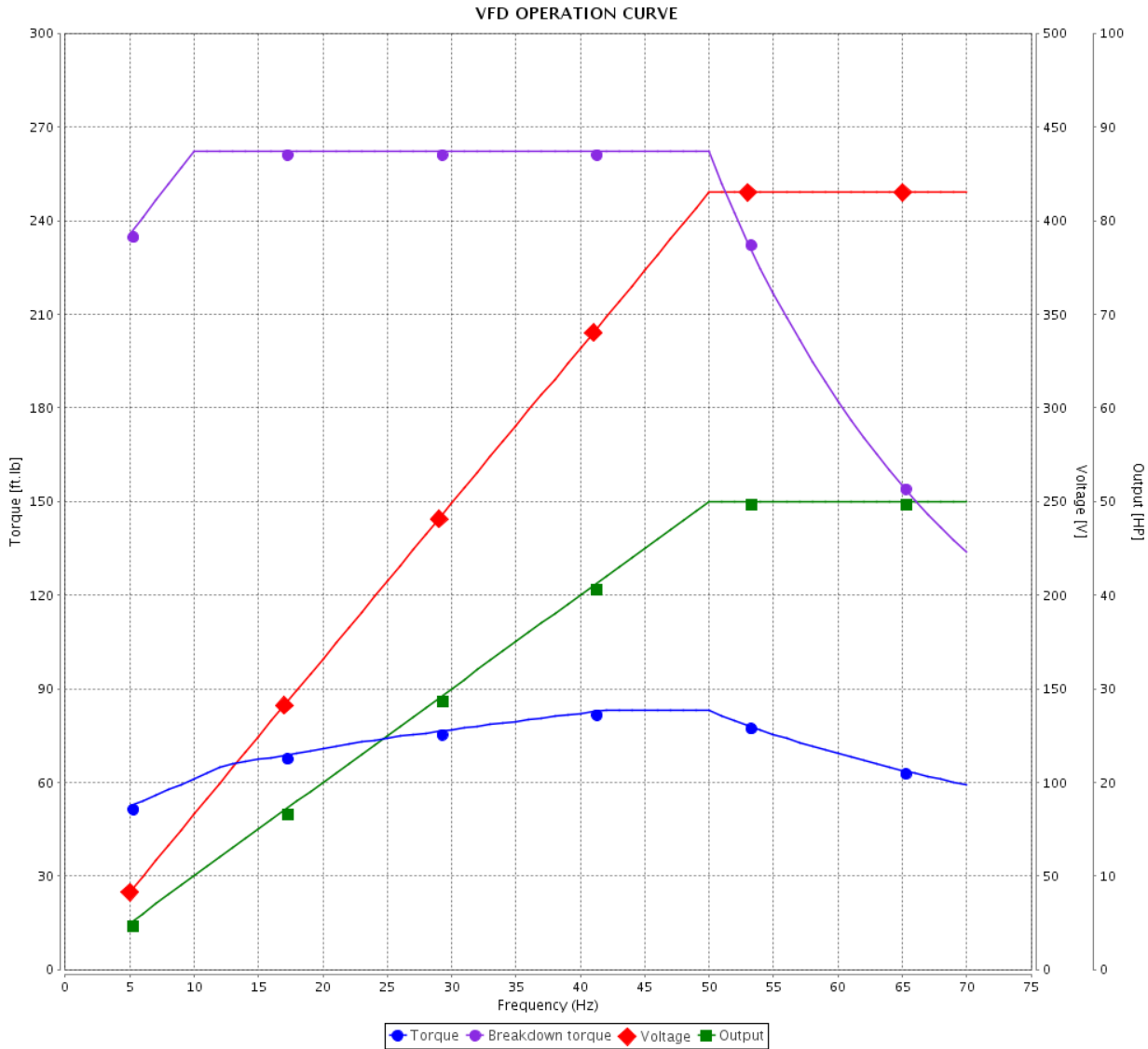


Customer :

Product line : ODP NEMA Premium Efficiency
Three-Phase

Product code : 11363554

Catalog # : 05036OT3E324TSC



Performance : 415 V 50 Hz 2P IE2

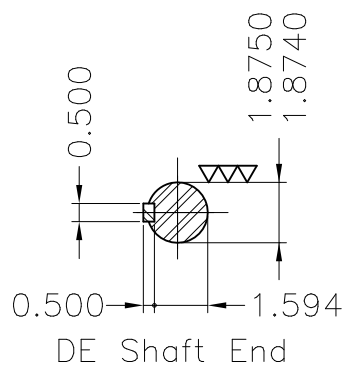
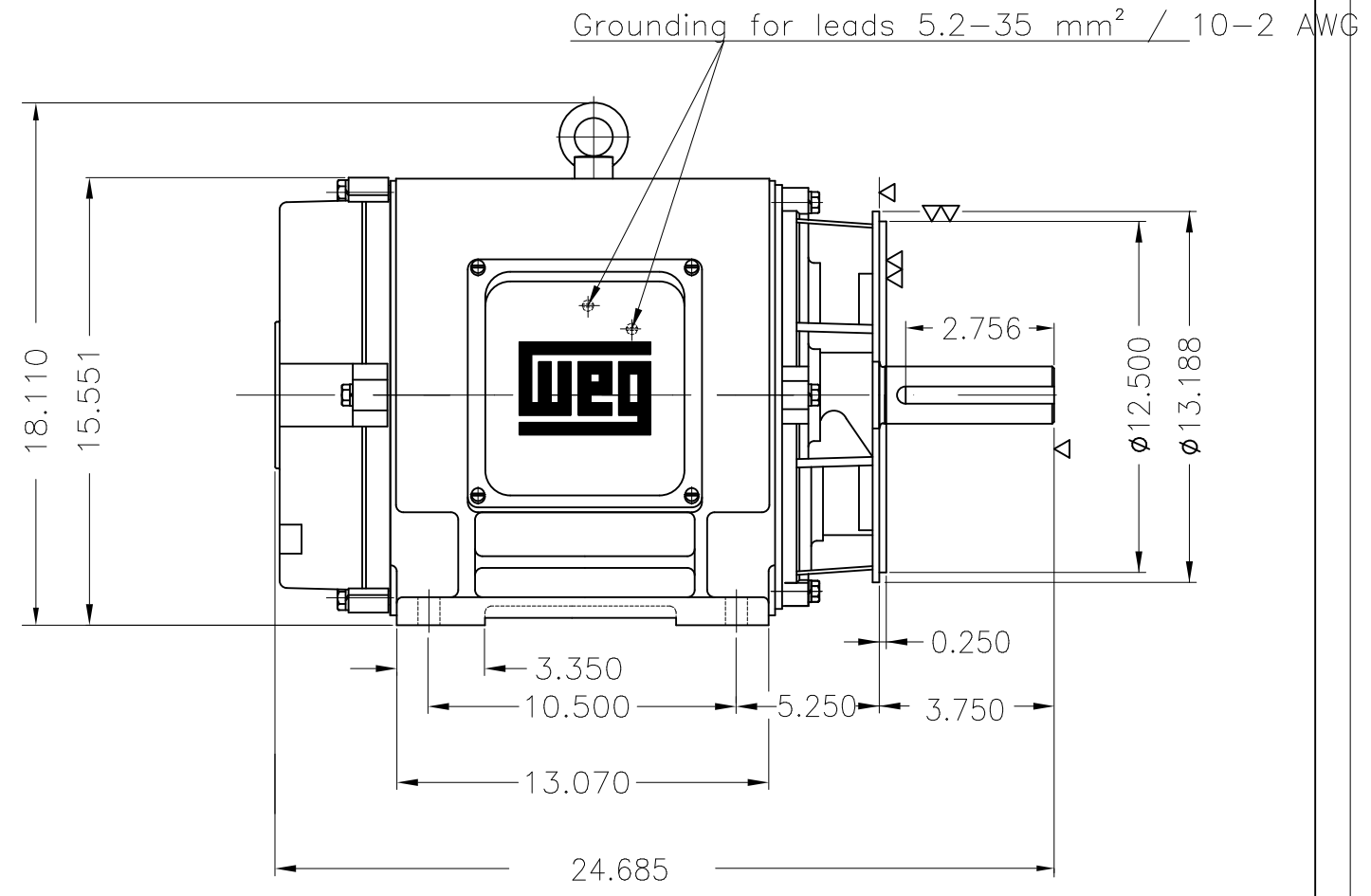
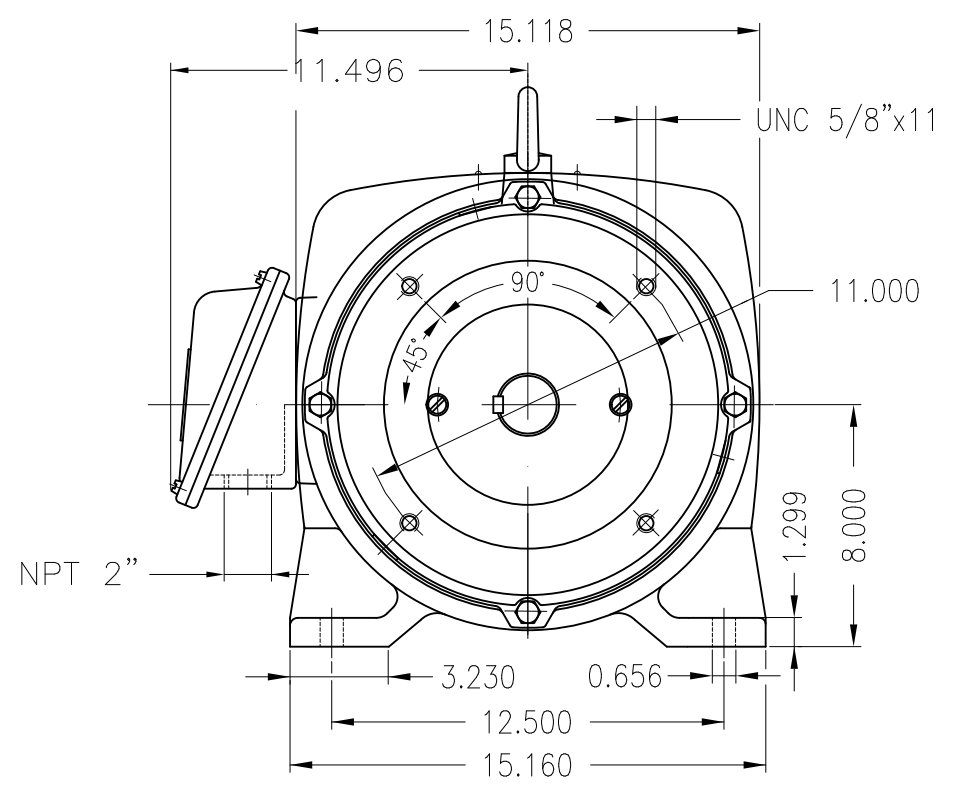
Rated current : 67.9 A
LRC : 5.9
Rated torque : 87.4 ft.lb
Locked rotor torque : 250 %
Breakdown torque : 300 %
Rated speed : 2965 rpm

Moment of inertia (J) : 3.83 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				

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					
CHECKED		FRAME 324TSC IP23 ODP					
RELEASED		WEG code: 11363554					
REL DT	08.11.2019	WMO Jaragua do Sul	Product Engineering	SHEET	1 / 1		

50 HP 02 Poles 60Hz

A



MADE IN BRAZIL


NEMA
Premium™

CC029A

PH 3 FRAME 324TSC

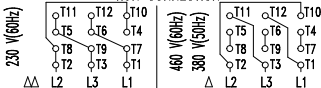
MODEL 050360T3E324TSC

INS CL. F ENCL ODP TYPE DP IP23 DUTY CONT.

HP(kW)	Hz	VOLTS	RPM	AMPS	PF	SFA
50(37)	60	208-230	3555	131-118	0.84	136
		460		59.1		68
50(37)	50	380	2950	71.5	0.85	-

Hz	SF	CODE	Δt (k)	ALT 1000 m.a.s.l. <small>MAX AMB.</small> 40°C
60	1.15	G	80	NEMA EFF 60Hz DES B
50	1.00	E	80	NOM(%) 93.6 3/4(%) 93.6

RUN CONNECTION



→ 6312-Z-C3

MOBIL POLYREX EM

492 Lbs

→ 6212-Z-C3

21 g 19658 h



EEV 78282



LR 38324



MOD.T00IF0X0N0000102413

11363554