

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer								
Product line	: NEMA Premium Efficiency Three-Phase	Product code	: 11356016					
		Catalog #	: 07536ET3G365TS-W22					
Frame	: 364/5TS	Cooling method	: IC411 - TEFC					
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	: 854 lb					
Protection degree	: IP55	Moment of inertia (J)	: 11.9 sq.ft.lb					
Design	: B							
Output [HP]	75	60	60	60	75	75	75	
Poles	2	2	2	2	2	2	2	
Frequency [Hz]	60	50	50	50	50	50	50	
Rated voltage [V]	460	380	400	415	380	400	415	
Rated current [A]	81.9	80.8	78.5	75.7	100	94.8	91.4	
L. R. Amperes [A]	549	525	557	598	520	559	594	
LRC [A]	6.7x(Code G)	6.5x(Code G)	7.1x(Code H)	7.9x(Code J)	5.2x(Code E)	5.9x(Code F)	6.5x(Code G)	
No load current [A]	20.0	19.0	20.0	21.5	19.0	20.0	21.5	
Rated speed [RPM]	3555	2955	2960	2965	2930	2945	2950	
Slip [%]	1.25	1.50	1.33	1.17	2.33	1.83	1.67	
Rated torque [ft.lb]	111	107	106	106	134	134	134	
Locked rotor torque [%]	200	210	229	250	160	175	190	
Breakdown torque [%]	250	260	390	310	200	220	240	
Service factor	1.25	1.00	1.00	1.00	1.00	1.00	1.00	
Temperature rise	80 K	80 K	80 K	80 K	105 K	105 K	105 K	
Locked rotor time	18s (cold) 10s (hot)	39s (cold) 22s (hot)	39s (cold) 22s (hot)	37s (cold) 21s (hot)	12s (cold) 7s (hot)	12s (cold) 7s (hot)	12s (cold) 7s (hot)	
Noise level ²	79.0 dB(A)	74.0 dB(A)	74.0 dB(A)	74.0 dB(A)	74.0 dB(A)	74.0 dB(A)	74.0 dB(A)	
Efficiency (%)	25%	92.2	89.7	90.4	90.8	92.7	92.2	93.4
	50%	92.4	91.2	91.5	91.8	92.4	92.4	93.0
	75%	93.6	92.5	93.0	93.1	93.0	93.0	93.6
	100%	93.6	94.0	94.0	94.0	92.4	93.0	93.0
Power Factor	25%	0.60	0.55	0.52	0.49	0.66	0.63	0.60
	50%	0.83	0.75	0.72	0.70	0.86	0.84	0.83
	75%	0.88	0.85	0.83	0.82	0.89	0.89	0.88
	100%	0.90	0.90	0.88	0.88	0.90	0.90	0.90
Bearing type	: Drive end : 6314 C3	Non drive end : 6314 C3	Foundation loads					
Sealing	: WSeal	WSeal	Max. traction : 670 lb					
Lubrication interval	: 4000 h	4000 h	Max. compression : 1524 lb					
Lubricant amount	: 27 g	27 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



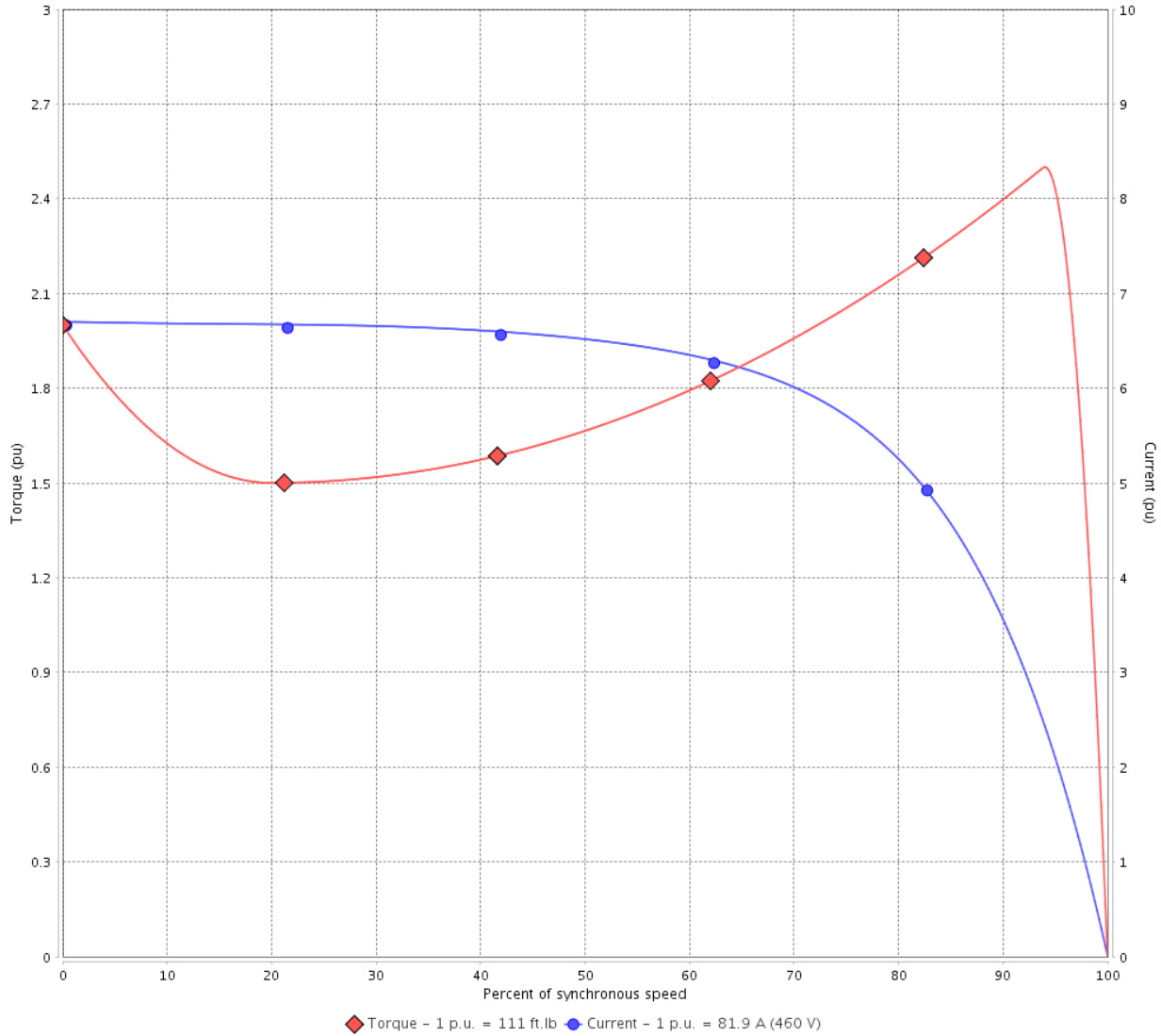
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11356016

Catalog # : 07536ET3G365TS-W22

TORQUE AND CURRENT VS SPEED CURVE



Performance : 460 V 60 Hz 2P

Rated current	: 81.9 A	Moment of inertia (J)	: 11.9 sq.ft.lb
LRC	: 6.7	Duty cycle	: Cont.(S1)
Rated torque	: 111 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.25
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 3555 rpm	Design	: B

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

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TORQUE AND CURRENT VS SPEED CURVE



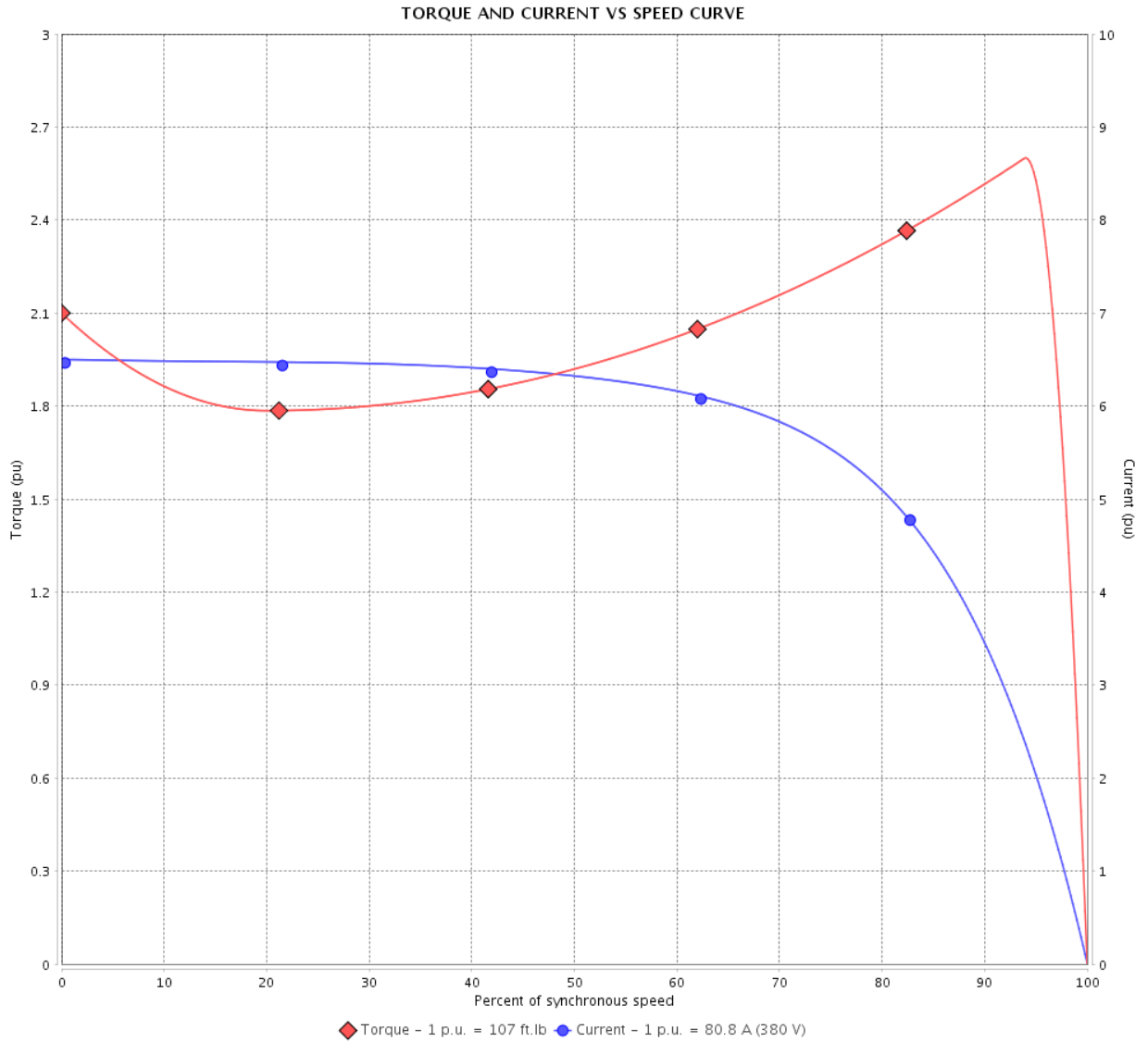
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Customer :

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Performance : 380 V 50 Hz 2P IE3

Rated current	: 80.8 A	Moment of inertia (J)	: 11.9 sq.ft.lb
LRC	: 6.5	Duty cycle	: Cont.(S1)
Rated torque	: 107 ft.lb	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.00
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 2955 rpm	Design	: B

Locked rotor time : 39s (cold) 22s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



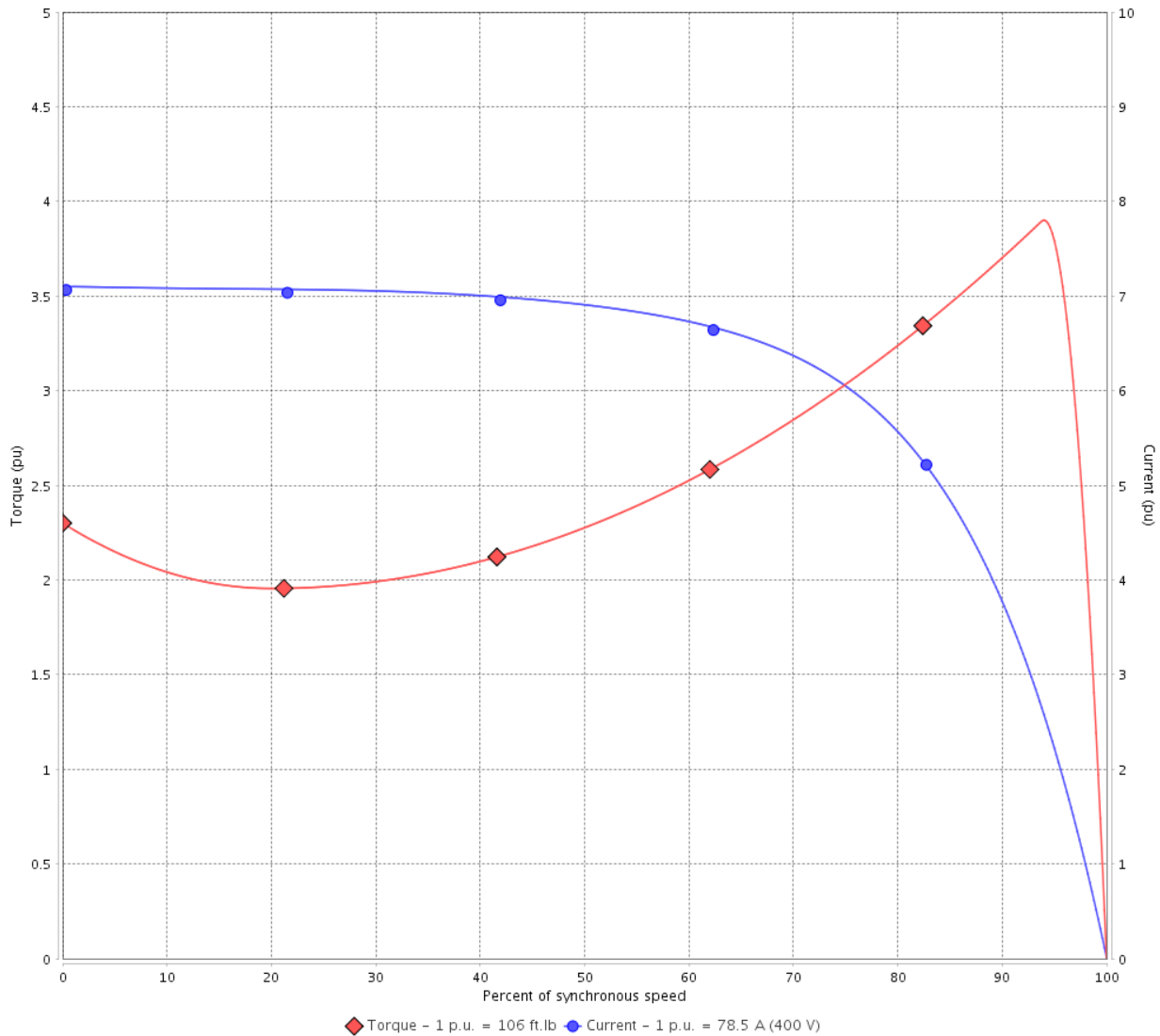
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TORQUE AND CURRENT VS SPEED CURVE



Performance : 400 V 50 Hz 2P IE3

Rated current	: 78.5 A	Moment of inertia (J)	: 11.9 sq.ft.lb
LRC	: 7.1	Duty cycle	: Cont.(S1)
Rated torque	: 106 ft.lb	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.00
Breakdown torque	: 390 %	Temperature rise	: 80 K
Rated speed	: 2960 rpm	Design	: B

Locked rotor time : 39s (cold) 22s (hot)

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TORQUE AND CURRENT VS SPEED CURVE



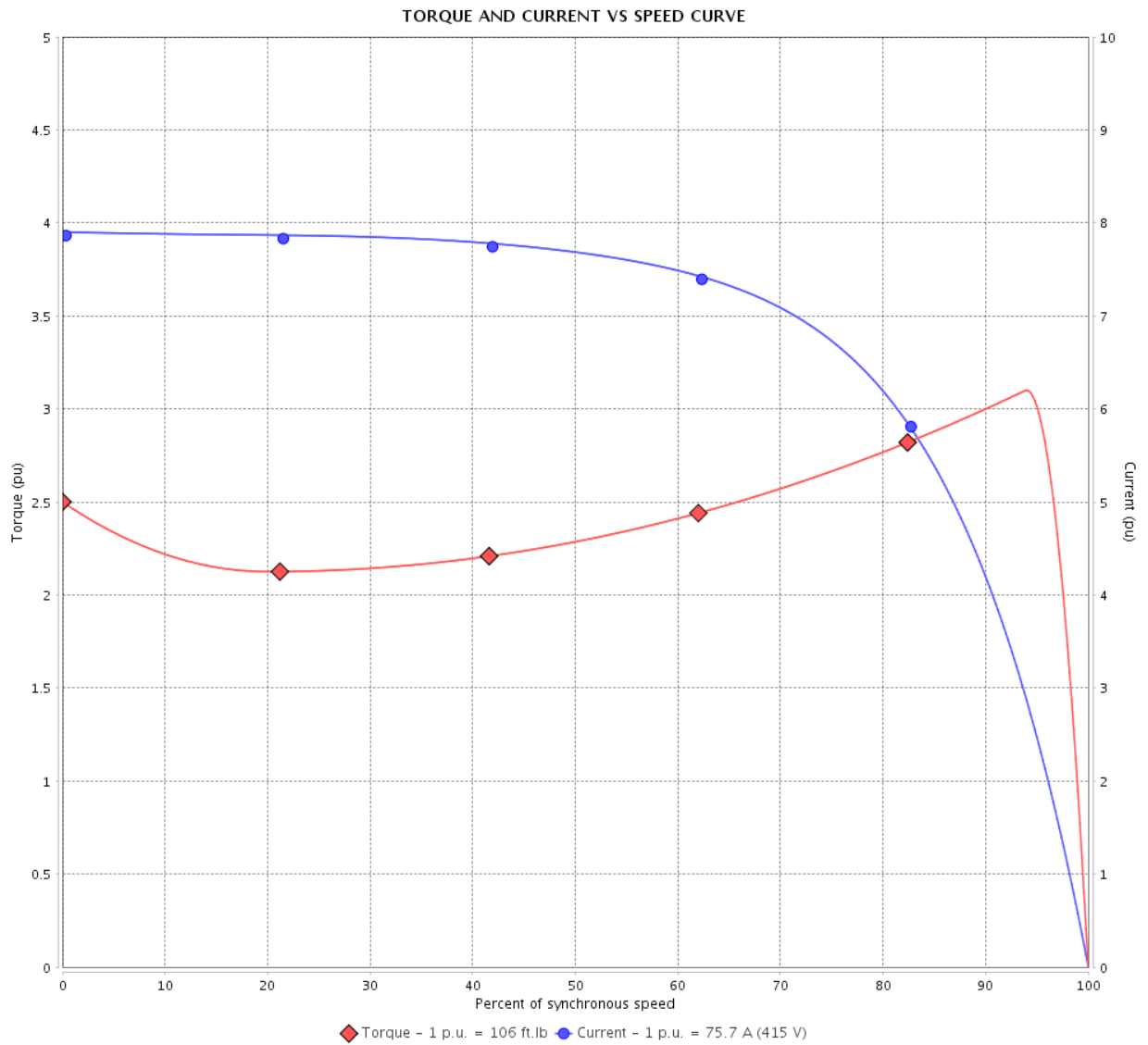
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Performance : 415 V 50 Hz 2P IE3

Rated current	: 75.7 A	Moment of inertia (J)	: 11.9 sq.ft.lb
LRC	: 7.9	Duty cycle	: Cont.(S1)
Rated torque	: 106 ft.lb	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.00
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 2965 rpm	Design	: B

Locked rotor time : 37s (cold) 21s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

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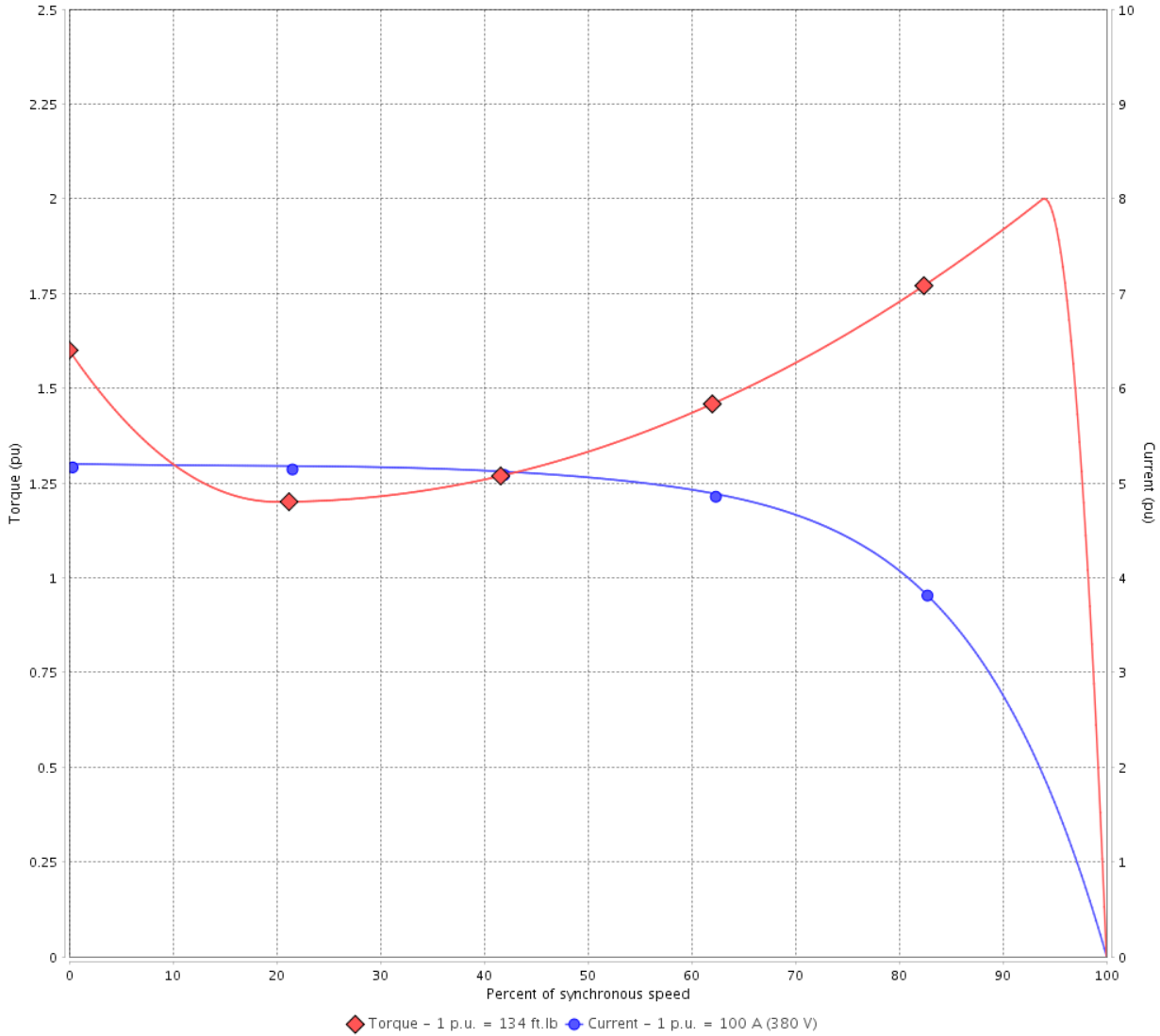
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TORQUE AND CURRENT VS SPEED CURVE



Performance : 380 V 50 Hz 2P IE1

Rated current	: 100 A	Moment of inertia (J)	: 11.9 sq.ft.lb
LRC	: 5.2	Duty cycle	: Cont.(S1)
Rated torque	: 134 ft.lb	Insulation class	: F
Locked rotor torque	: 160 %	Service factor	: 1.00
Breakdown torque	: 200 %	Temperature rise	: 105 K
Rated speed	: 2930 rpm	Design	: B

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

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TORQUE AND CURRENT VS SPEED CURVE



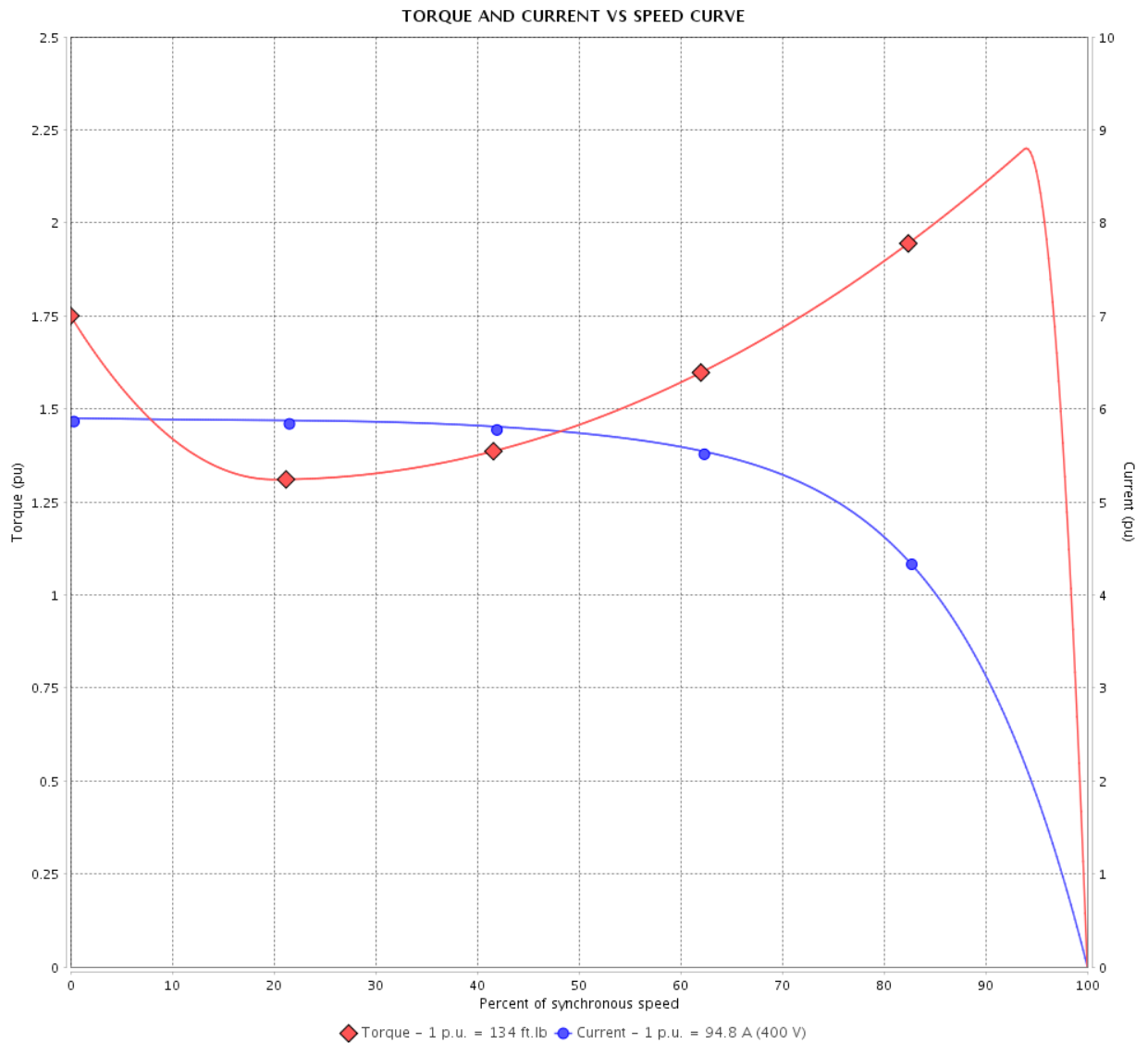
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Performance : 400 V 50 Hz 2P IE1

Rated current	: 94.8 A	Moment of inertia (J)	: 11.9 sq.ft.lb
LRC	: 5.9	Duty cycle	: Cont.(S1)
Rated torque	: 134 ft.lb	Insulation class	: F
Locked rotor torque	: 175 %	Service factor	: 1.00
Breakdown torque	: 220 %	Temperature rise	: 105 K
Rated speed	: 2945 rpm	Design	: B

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

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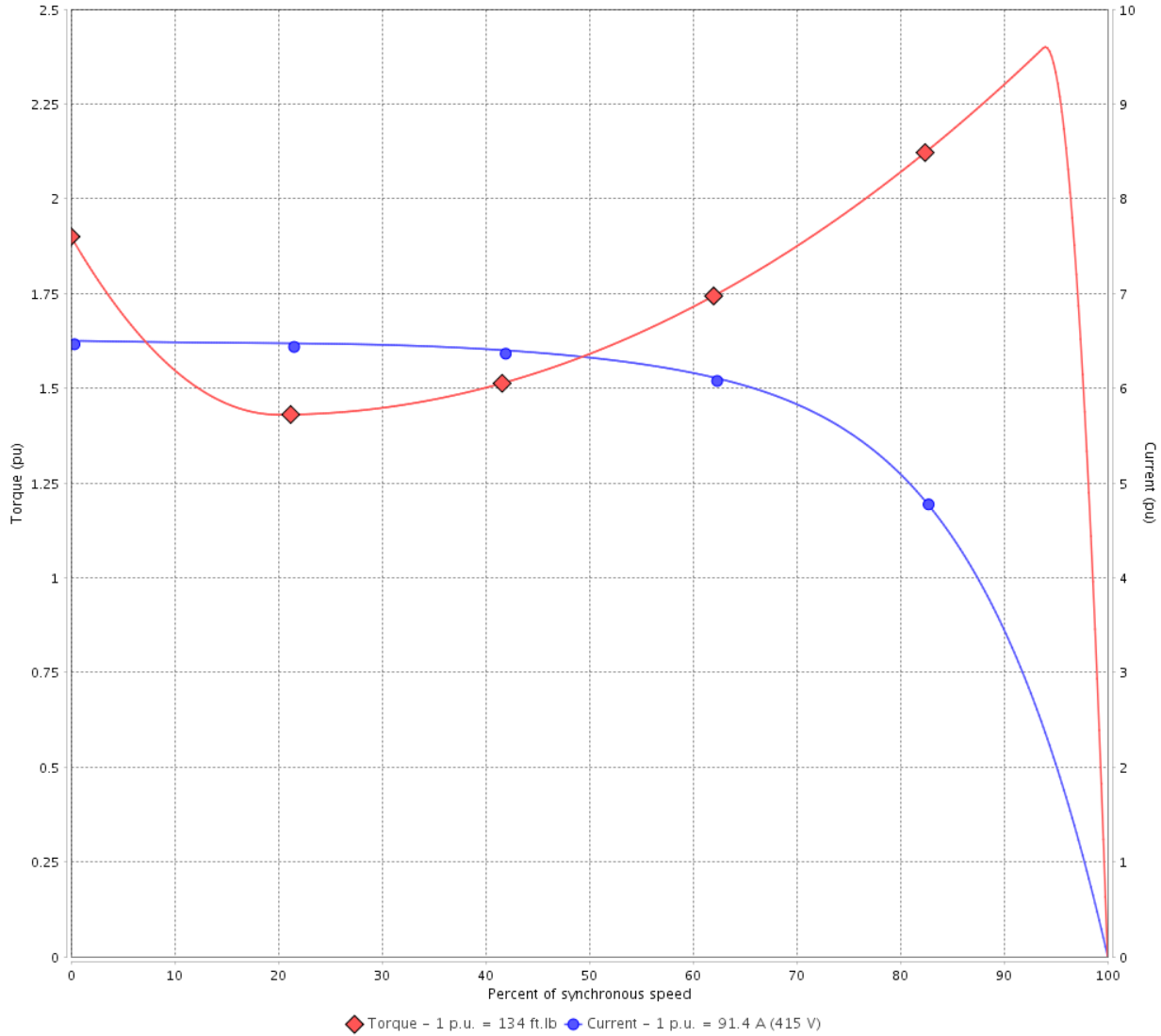
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Catalog # : 07536ET3G365TS-W22

TORQUE AND CURRENT VS SPEED CURVE



Performance : 415 V 50 Hz 2P IE1

Rated current	: 91.4 A	Moment of inertia (J)	: 11.9 sq.ft.lb
LRC	: 6.5	Duty cycle	: Cont.(S1)
Rated torque	: 134 ft.lb	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 240 %	Temperature rise	: 105 K
Rated speed	: 2950 rpm	Design	: B

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

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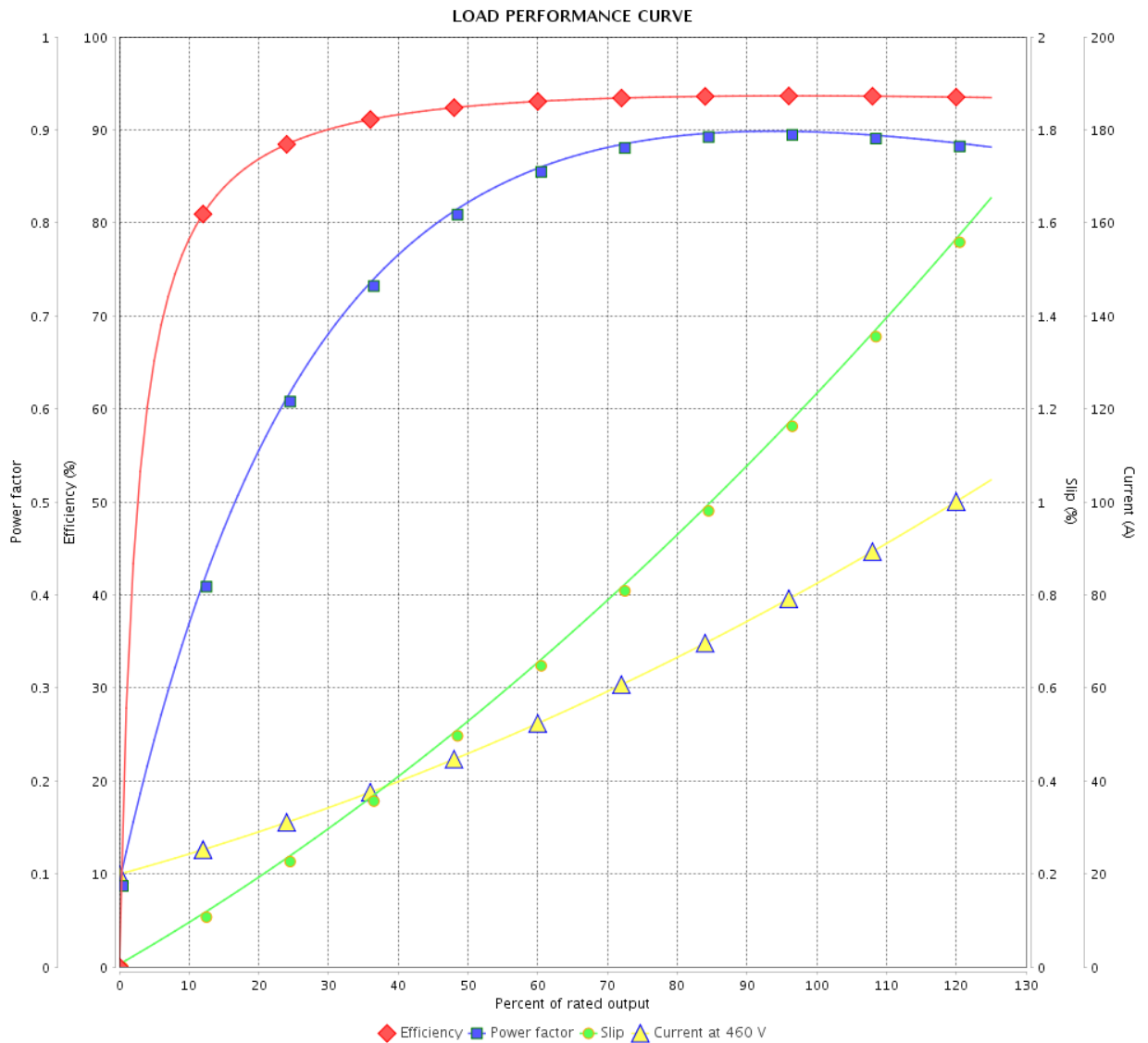


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Performance : 460 V 60 Hz 2P

Rated current : 81.9 A
 LRC : 6.7
 Rated torque : 111 ft.lb
 Locked rotor torque : 200 %
 Breakdown torque : 250 %
 Rated speed : 3555 rpm

Moment of inertia (J) : 11.9 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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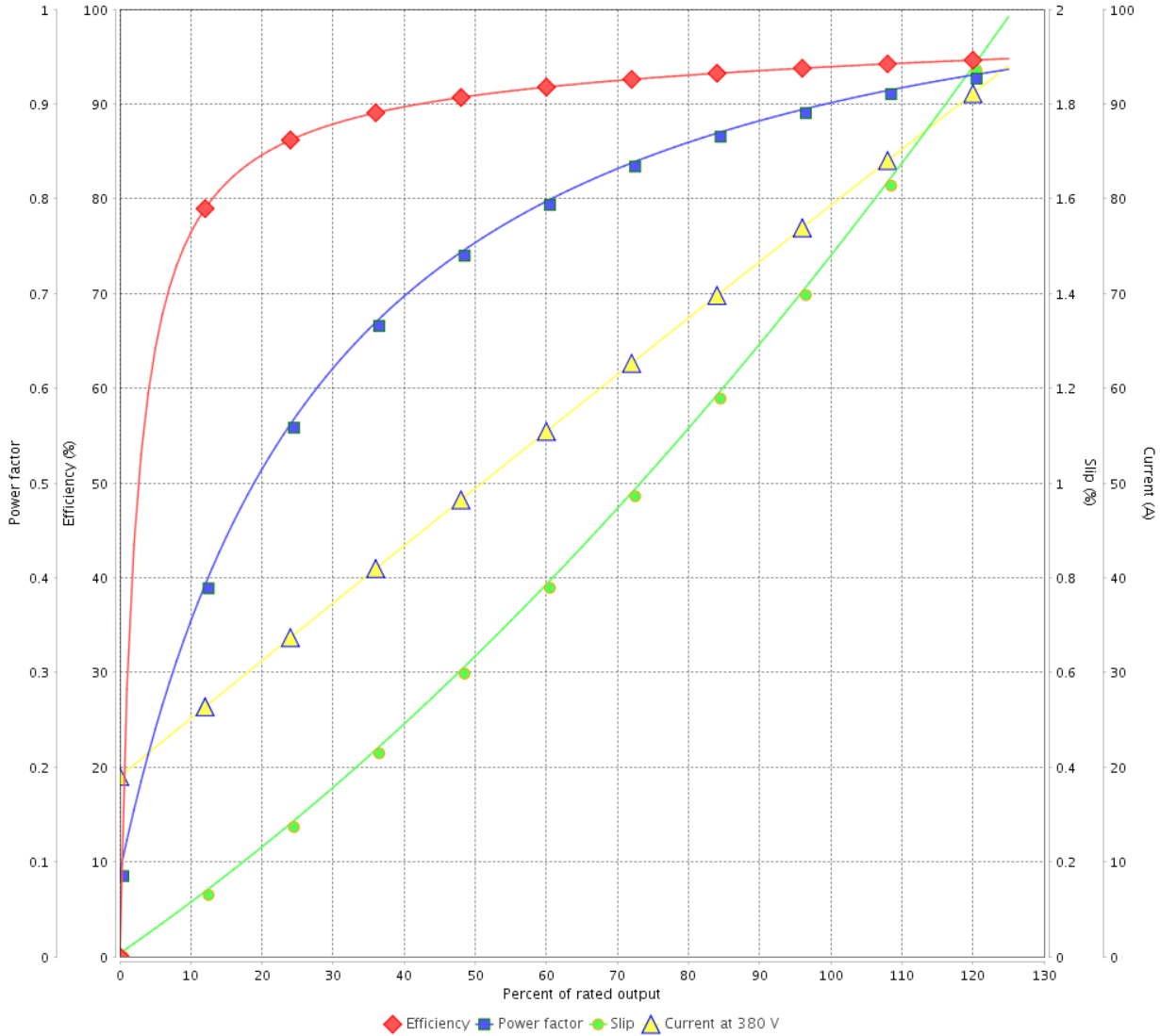
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Performance : 380 V 50 Hz 2P IE3

Rated current : 80.8 A
 LRC : 6.5
 Rated torque : 107 ft.lb
 Locked rotor torque : 210 %
 Breakdown torque : 260 %
 Rated speed : 2955 rpm

Moment of inertia (J) : 11.9 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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Three Phase Induction Motor - Squirrel Cage

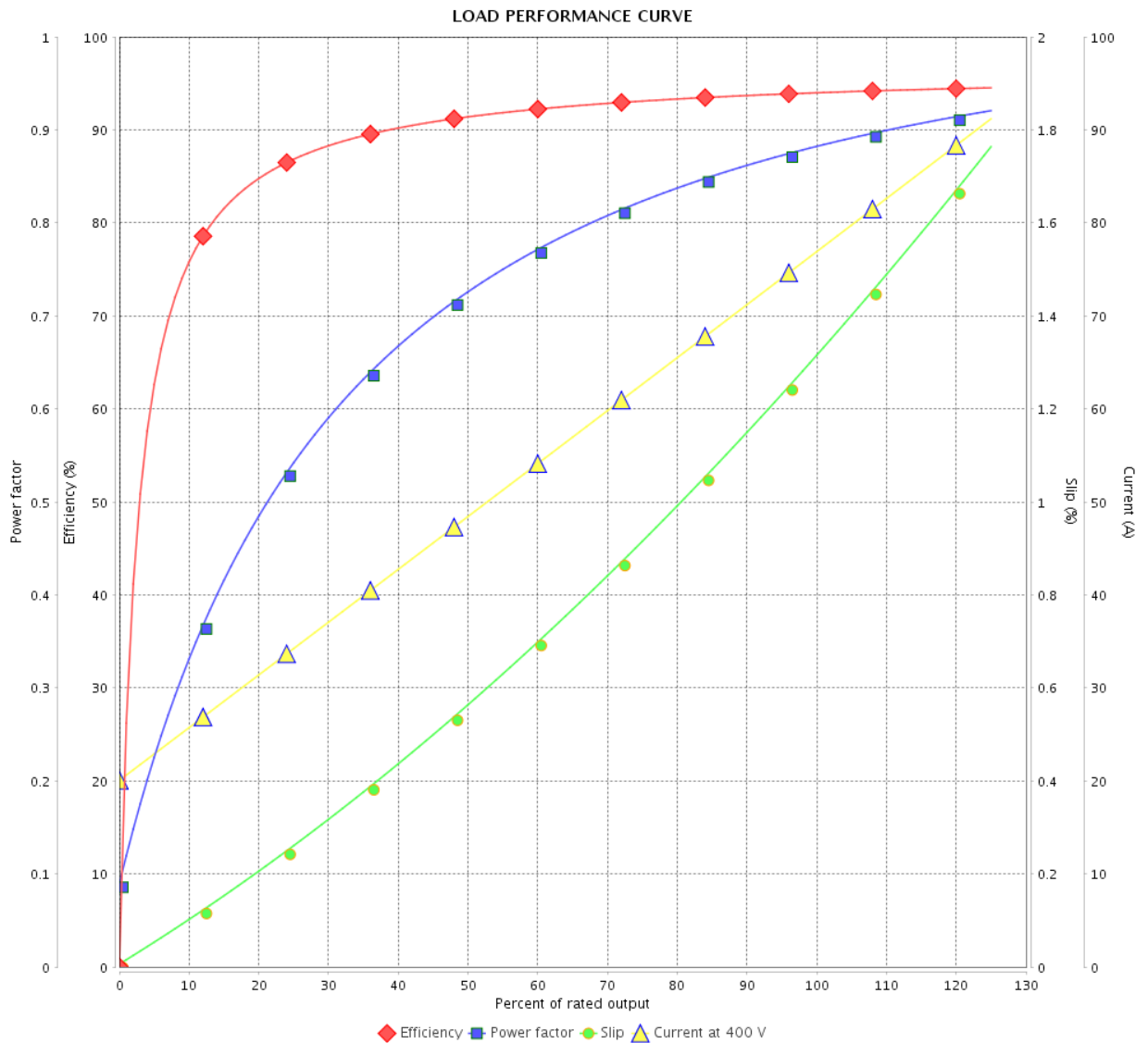


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Performance : 400 V 50 Hz 2P IE3

Rated current : 78.5 A
 LRC : 7.1
 Rated torque : 106 ft.lb
 Locked rotor torque : 229 %
 Breakdown torque : 390 %
 Rated speed : 2960 rpm

Moment of inertia (J) : 11.9 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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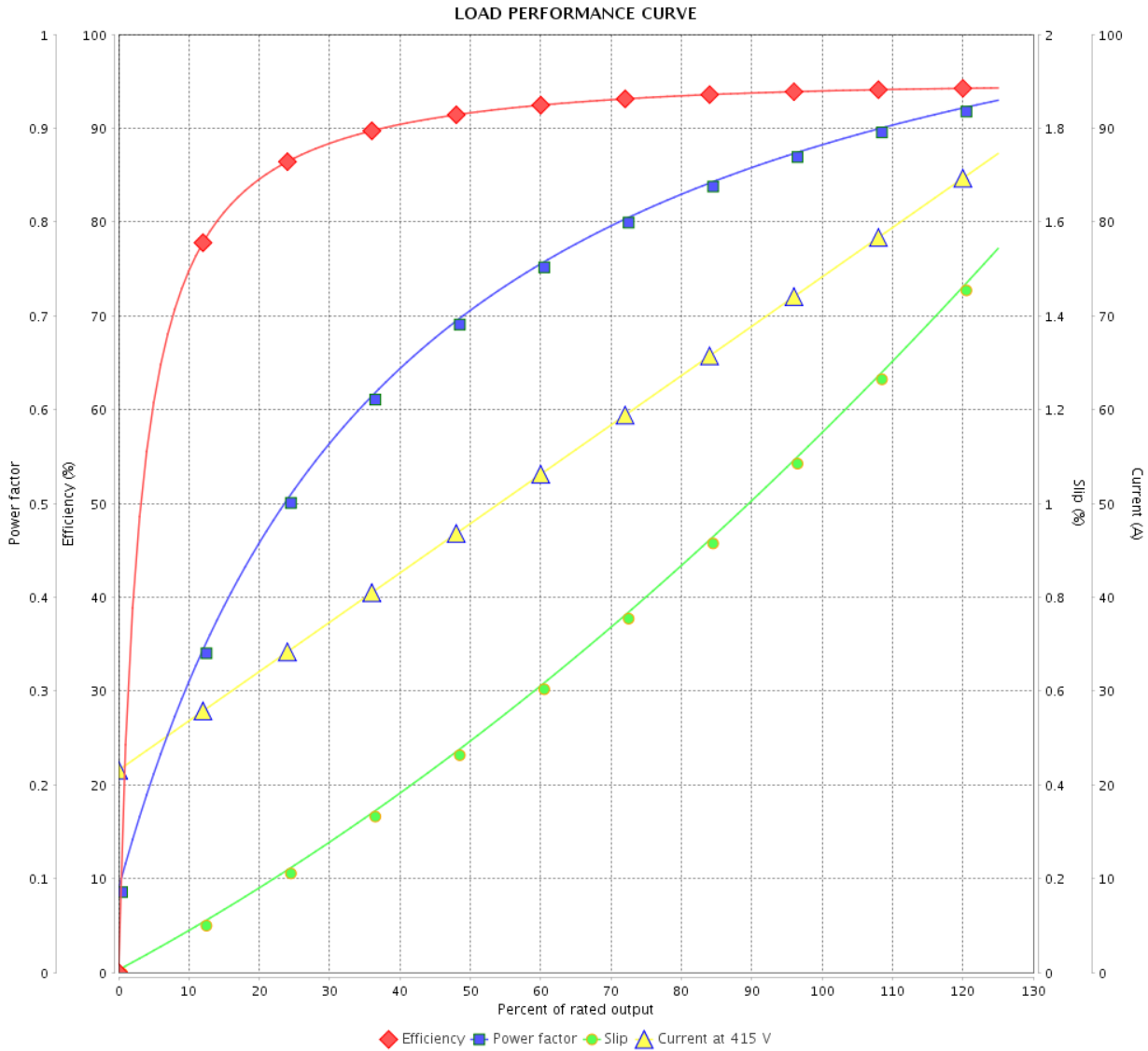


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Performance : 415 V 50 Hz 2P IE3

Rated current : 75.7 A
 LRC : 7.9
 Rated torque : 106 ft.lb
 Locked rotor torque : 250 %
 Breakdown torque : 310 %
 Rated speed : 2965 rpm

Moment of inertia (J) : 11.9 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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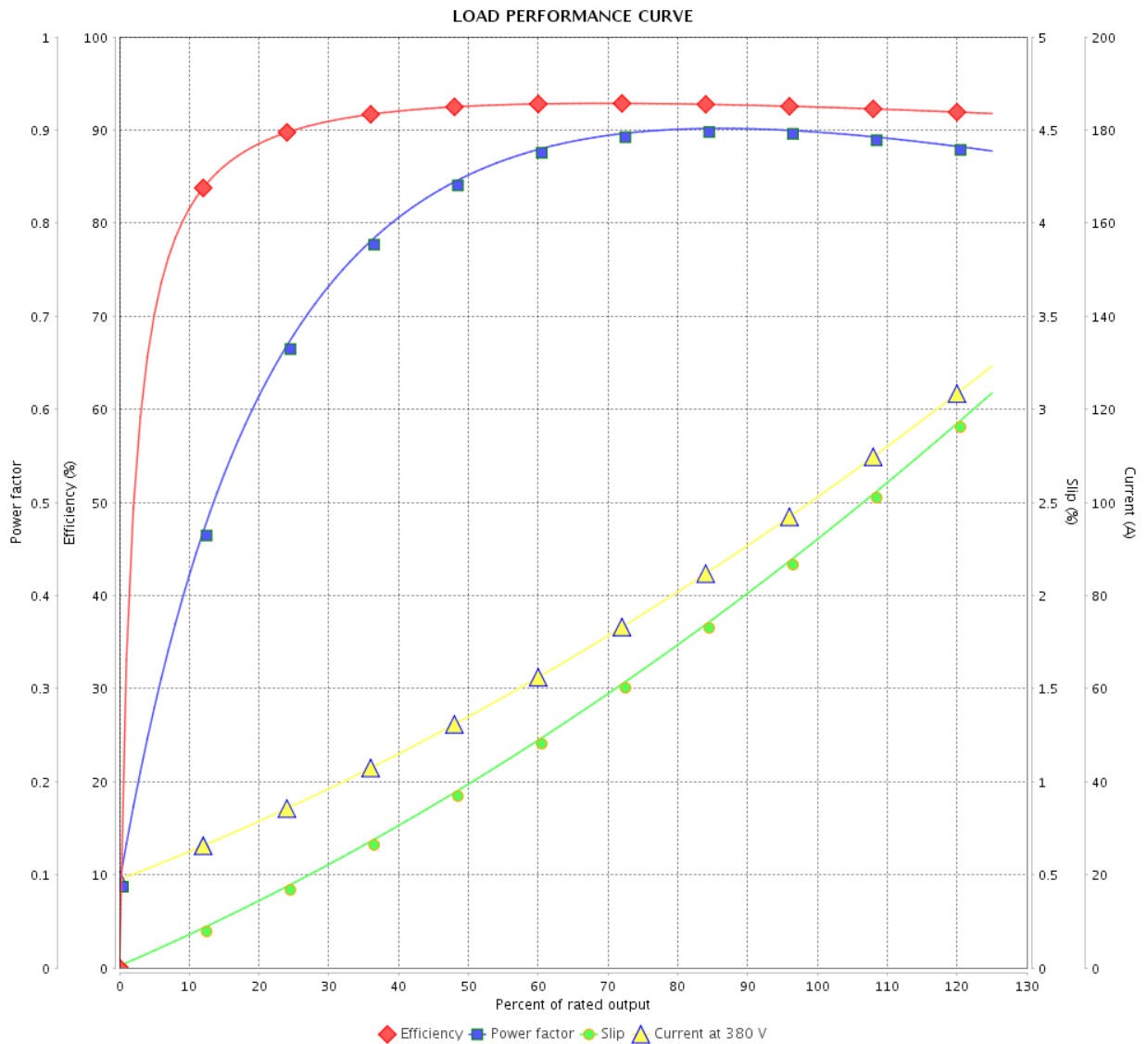


Customer : _____

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Product code : 11356016

Catalog # : 07536ET3G365TS-W22



Performance : 380 V 50 Hz 2P IE1

Rated current : 100 A
 LRC : 5.2
 Rated torque : 134 ft.lb
 Locked rotor torque : 160 %
 Breakdown torque : 200 %
 Rated speed : 2930 rpm

Moment of inertia (J) : 11.9 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : B

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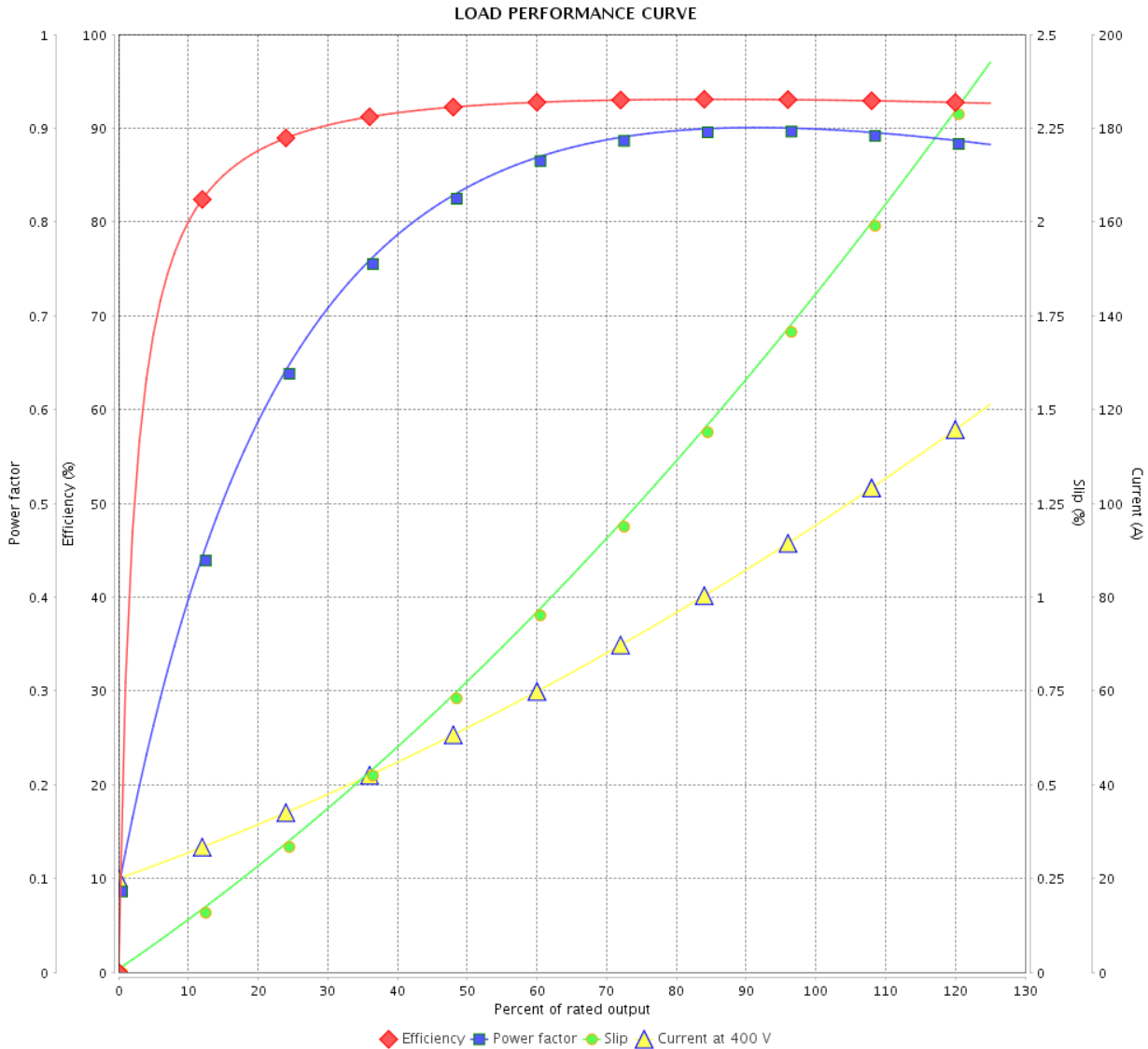


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Performance : 400 V 50 Hz 2P IE1

Rated current	: 94.8 A	Moment of inertia (J)	: 11.9 sq.ft.lb
LRC	: 5.9	Duty cycle	: Cont.(S1)
Rated torque	: 134 ft.lb	Insulation class	: F
Locked rotor torque	: 175 %	Service factor	: 1.00
Breakdown torque	: 220 %	Temperature rise	: 105 K
Rated speed	: 2945 rpm	Design	: B

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Three Phase Induction Motor - Squirrel Cage

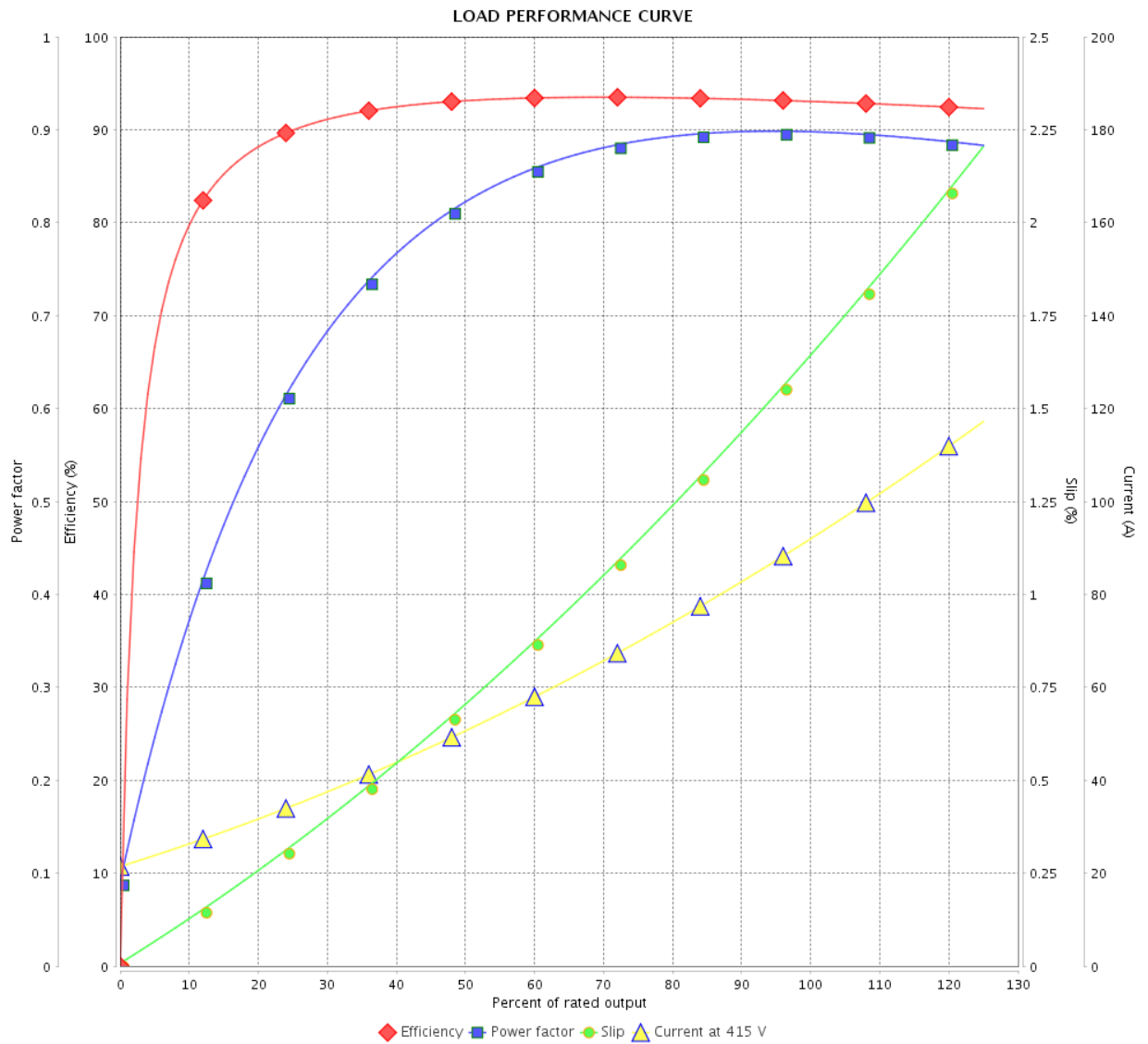


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Product code : 11356016

Catalog # : 07536ET3G365TS-W22



Performance : 415 V 50 Hz 2P IE1

Rated current : 91.4 A
 LRC : 6.5
 Rated torque : 134 ft.lb
 Locked rotor torque : 190 %
 Breakdown torque : 240 %
 Rated speed : 2950 rpm

Moment of inertia (J) : 11.9 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : B

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Performance : 460 V 60 Hz 2P

Rated current	: 81.9 A	Moment of inertia (J)	: 11.9 sq.ft.lb
LRC	: 6.7	Duty cycle	: Cont.(S1)
Rated torque	: 111 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.25
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 3555 rpm	Design	: B

Heating constant

Cooling constant

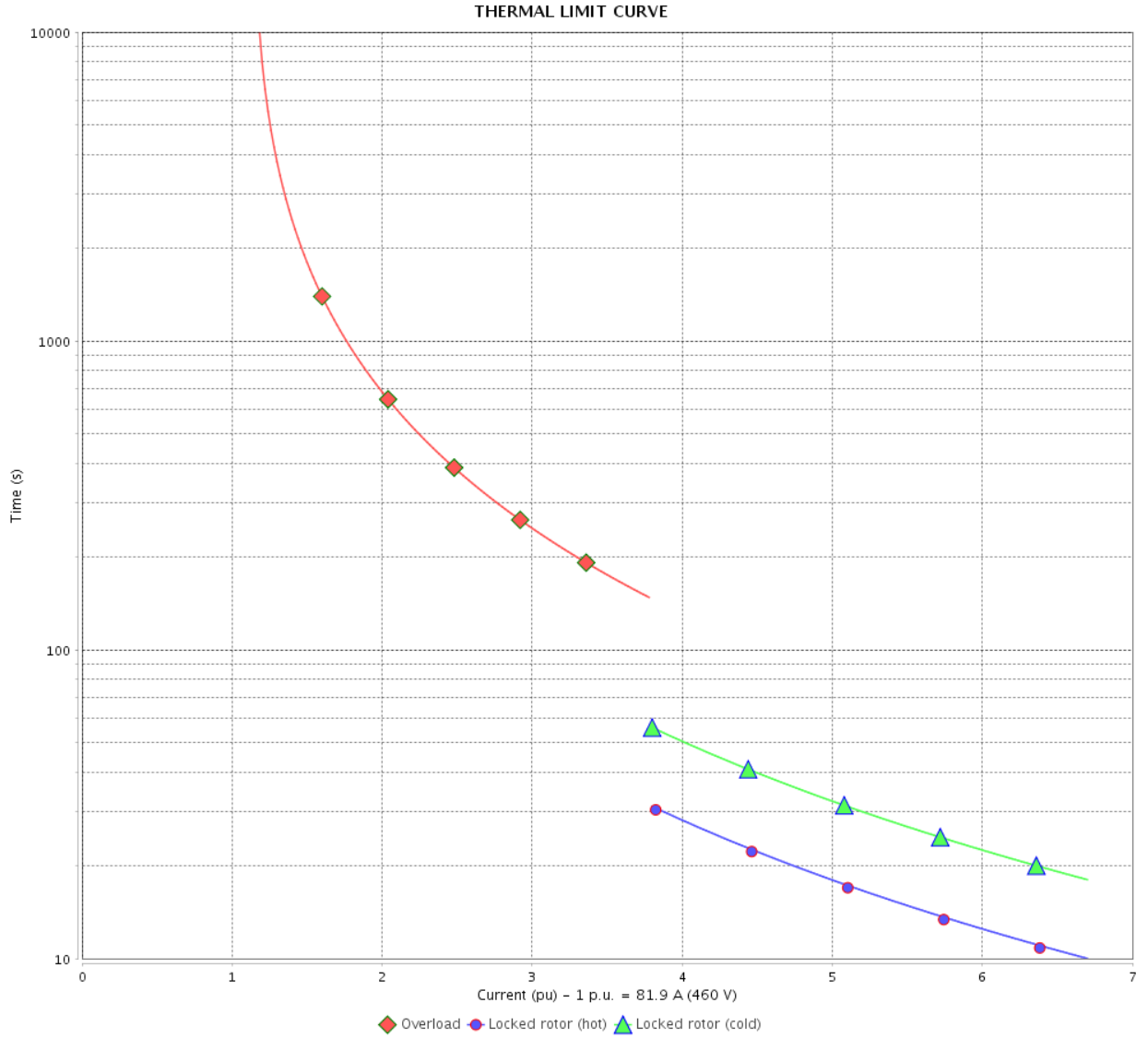
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Performance : 380 V 50 Hz 2P IE3

Rated current	: 80.8 A	Moment of inertia (J)	: 11.9 sq.ft.lb
LRC	: 6.5	Duty cycle	: Cont.(S1)
Rated torque	: 107 ft.lb	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.00
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 2955 rpm	Design	: B

Heating constant

Cooling constant

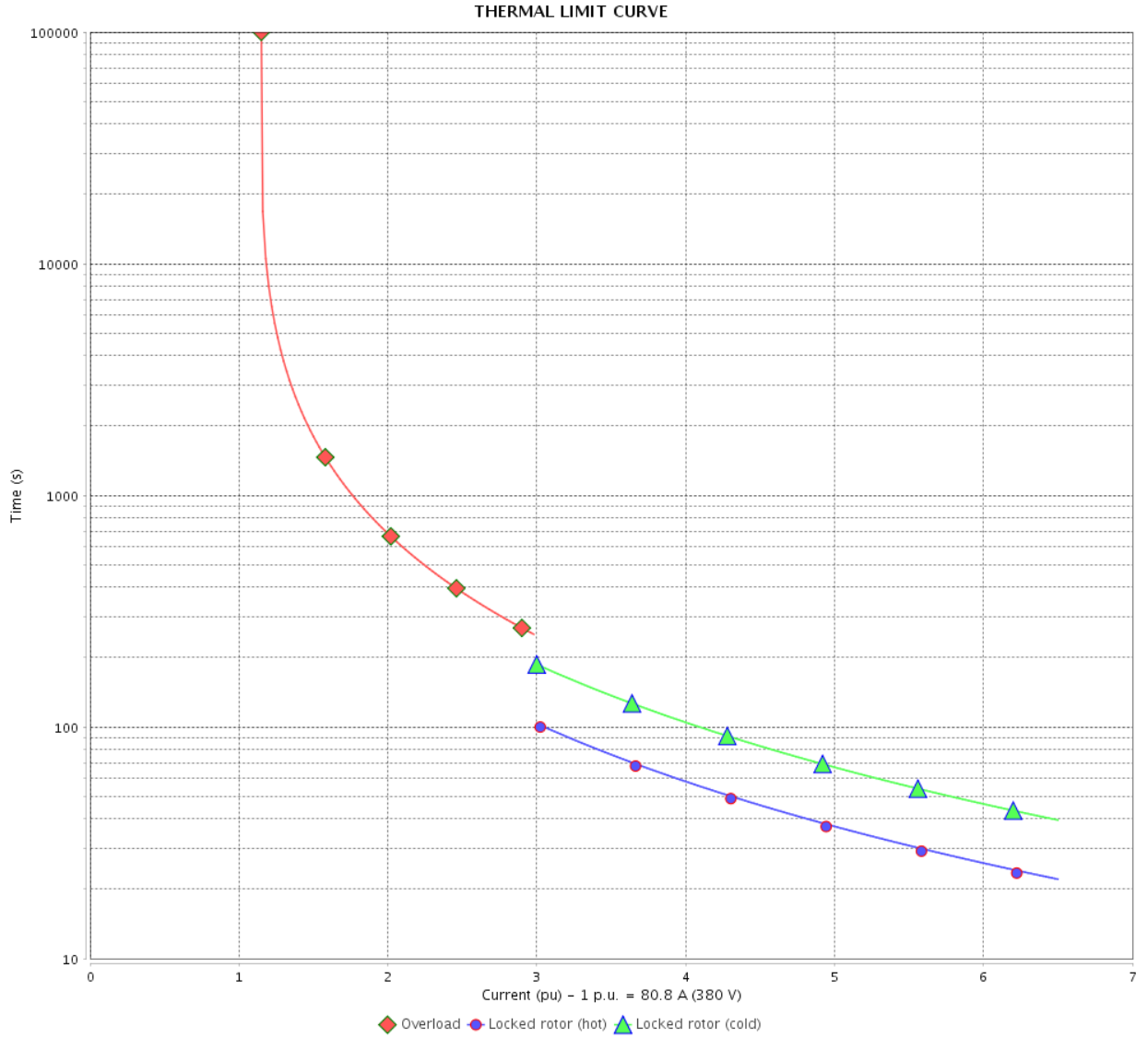
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Rated current	: 78.5 A	Moment of inertia (J)	: 11.9 sq.ft.lb
LRC	: 7.1	Duty cycle	: Cont.(S1)
Rated torque	: 106 ft.lb	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.00
Breakdown torque	: 390 %	Temperature rise	: 80 K
Rated speed	: 2960 rpm	Design	: B

Heating constant

Cooling constant

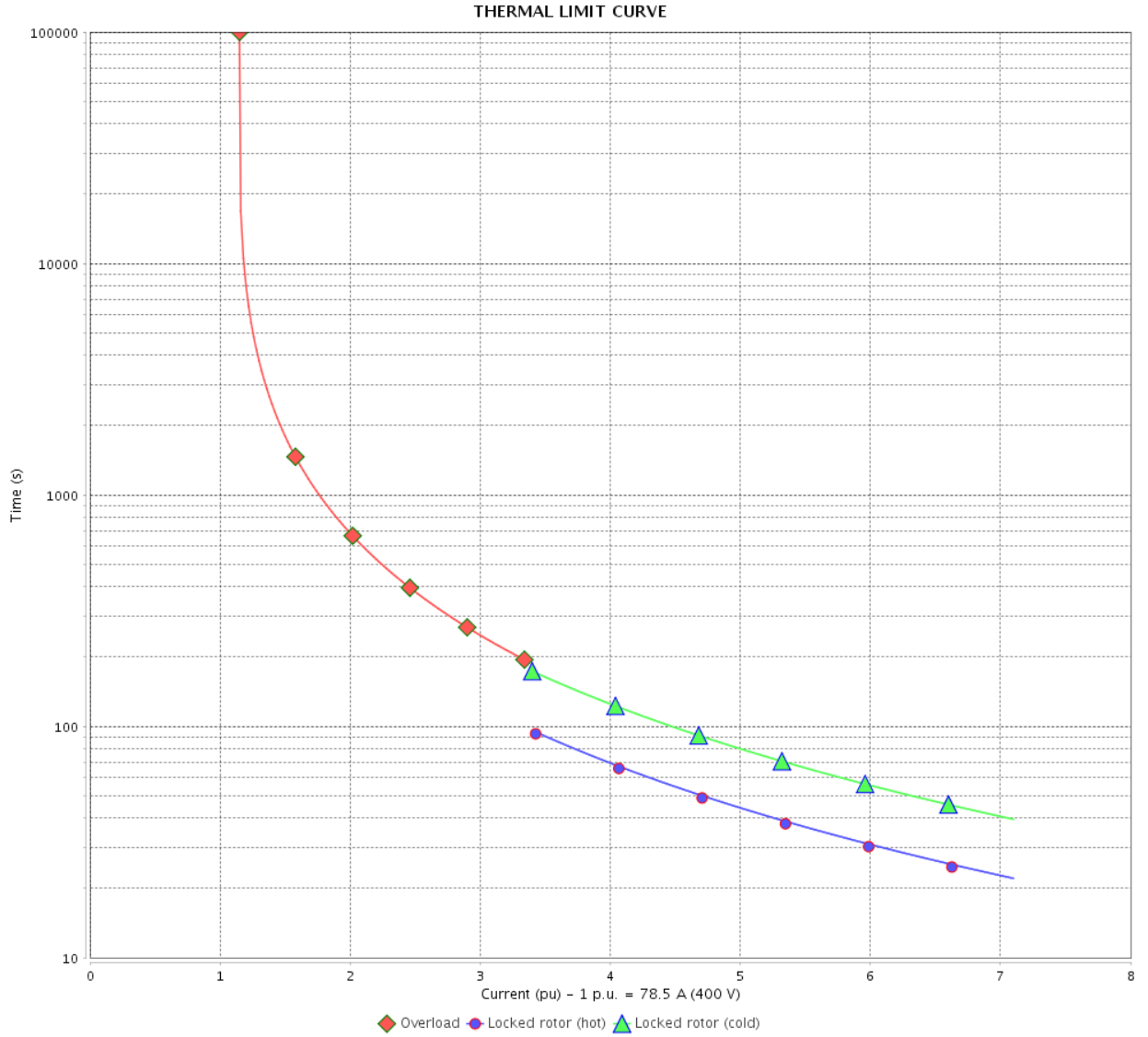
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Heating constant

Cooling constant

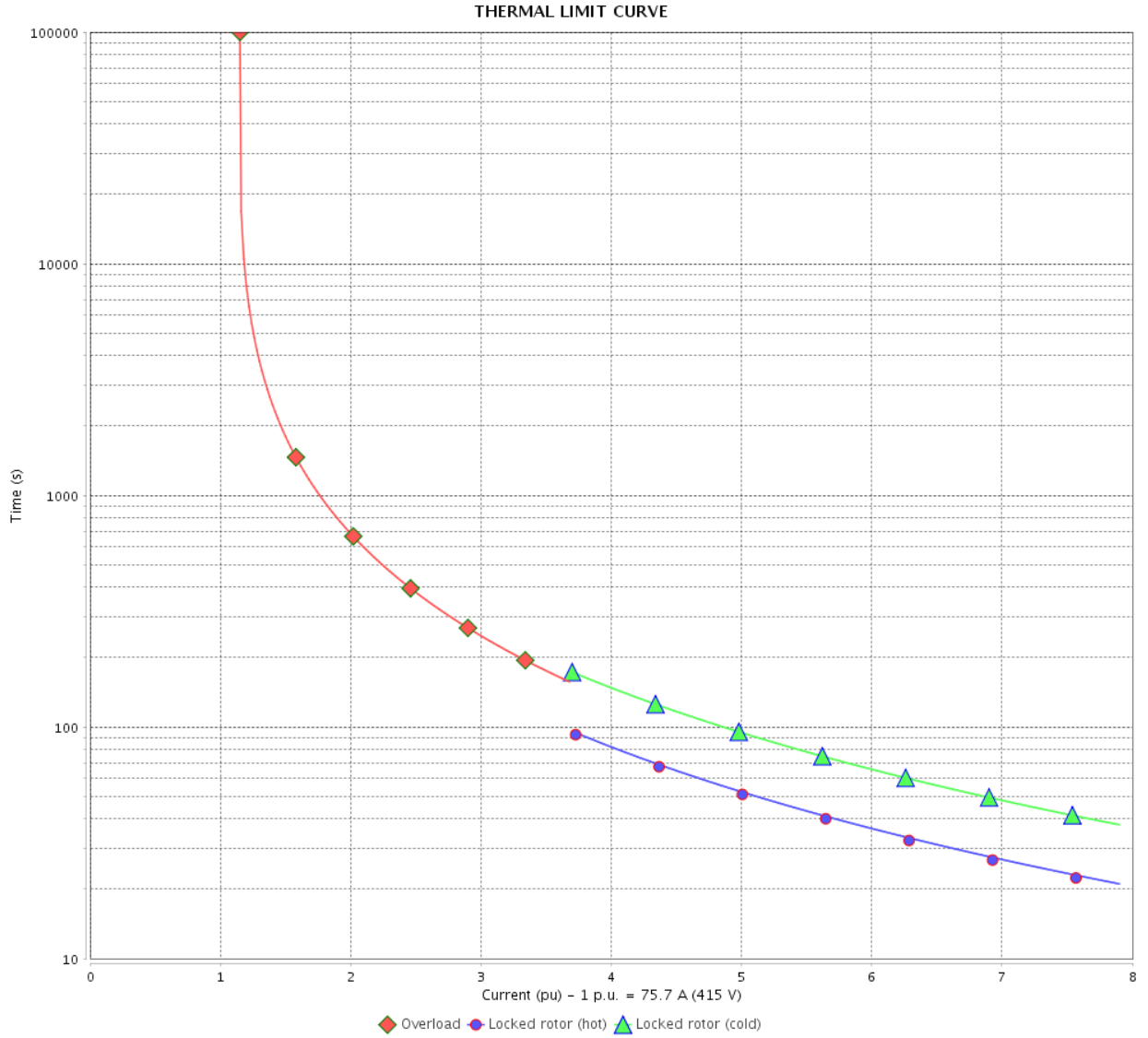
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Performance : 380 V 50 Hz 2P IE1

Rated current	: 100 A	Moment of inertia (J)	: 11.9 sq.ft.lb
LRC	: 5.2	Duty cycle	: Cont.(S1)
Rated torque	: 134 ft.lb	Insulation class	: F
Locked rotor torque	: 160 %	Service factor	: 1.00
Breakdown torque	: 200 %	Temperature rise	: 105 K
Rated speed	: 2930 rpm	Design	: B

Heating constant

Cooling constant

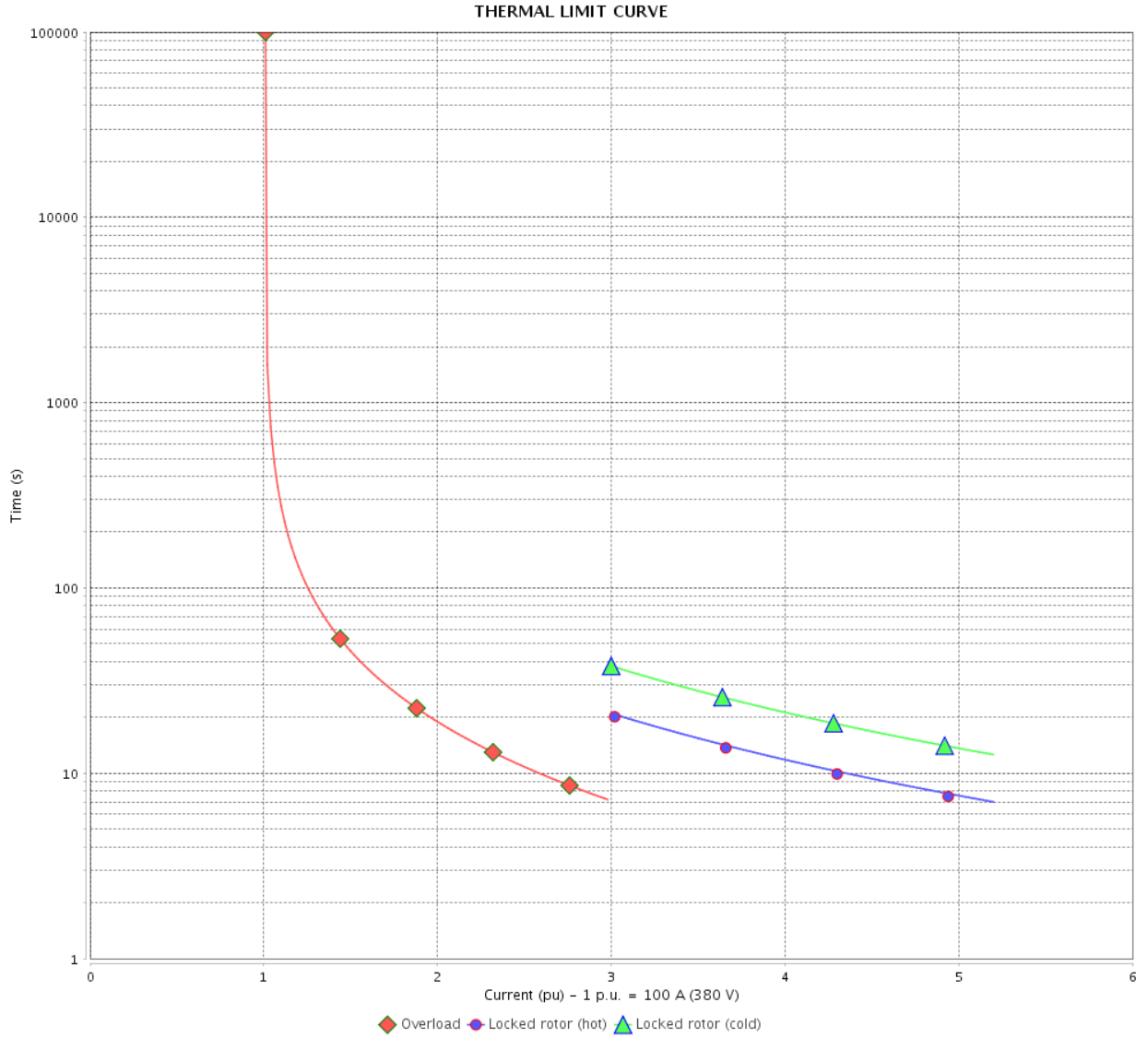
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LRC	: 5.9	Duty cycle	: Cont.(S1)
Rated torque	: 134 ft.lb	Insulation class	: F
Locked rotor torque	: 175 %	Service factor	: 1.00
Breakdown torque	: 220 %	Temperature rise	: 105 K
Rated speed	: 2945 rpm	Design	: B

Heating constant

Cooling constant

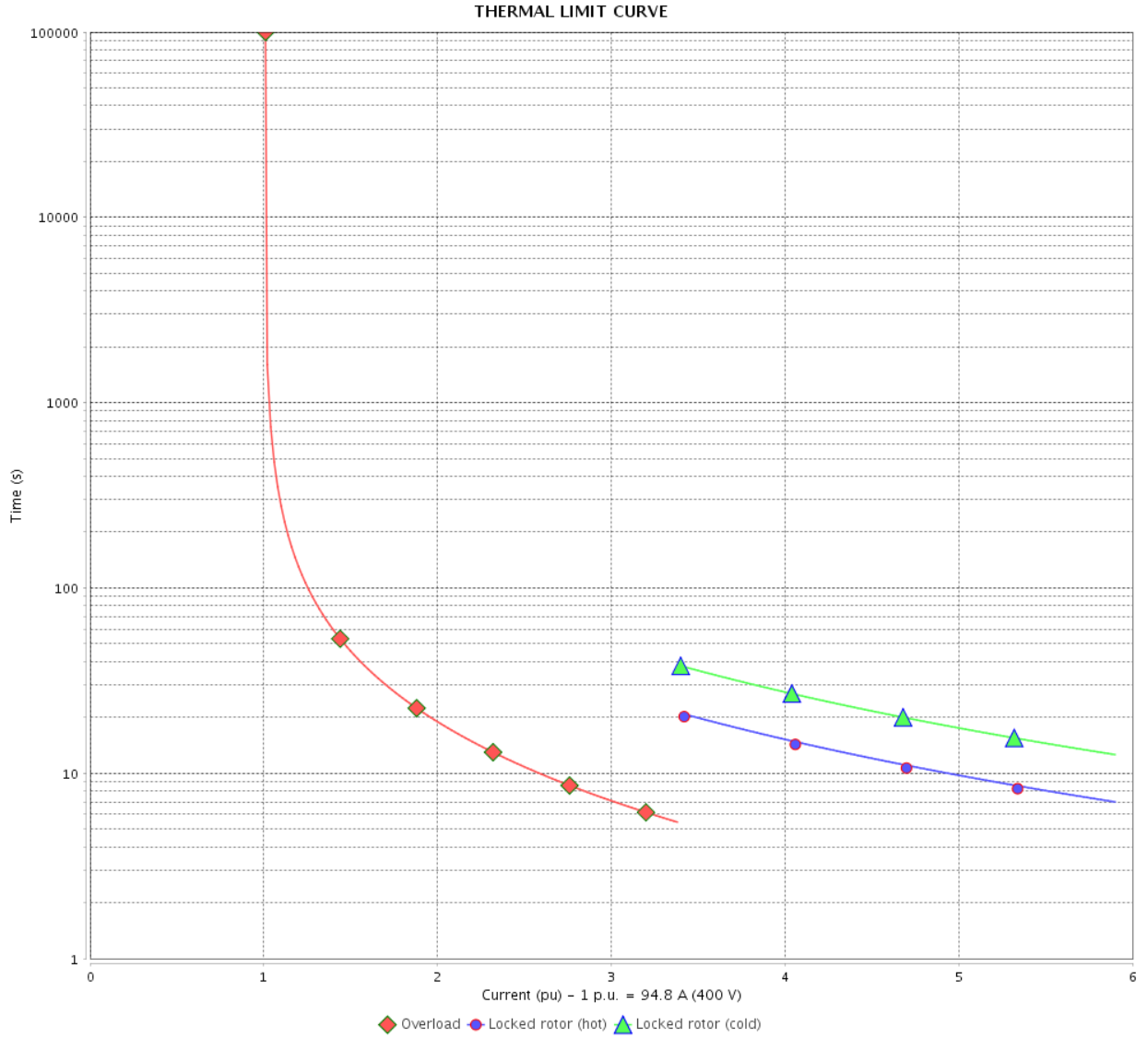
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	13/04/2022		26 / 36	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 27 / 36		Revision
Checked by				
Date				

THERMAL LIMIT CURVE



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase
Product code : 11356016
Catalog # : 07536ET3G365TS-W22

Performance : 415 V 50 Hz 2P IE1

Rated current	: 91.4 A	Moment of inertia (J)	: 11.9 sq.ft.lb
LRC	: 6.5	Duty cycle	: Cont.(S1)
Rated torque	: 134 ft.lb	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 240 %	Temperature rise	: 105 K
Rated speed	: 2950 rpm	Design	: B

Heating constant

Cooling constant

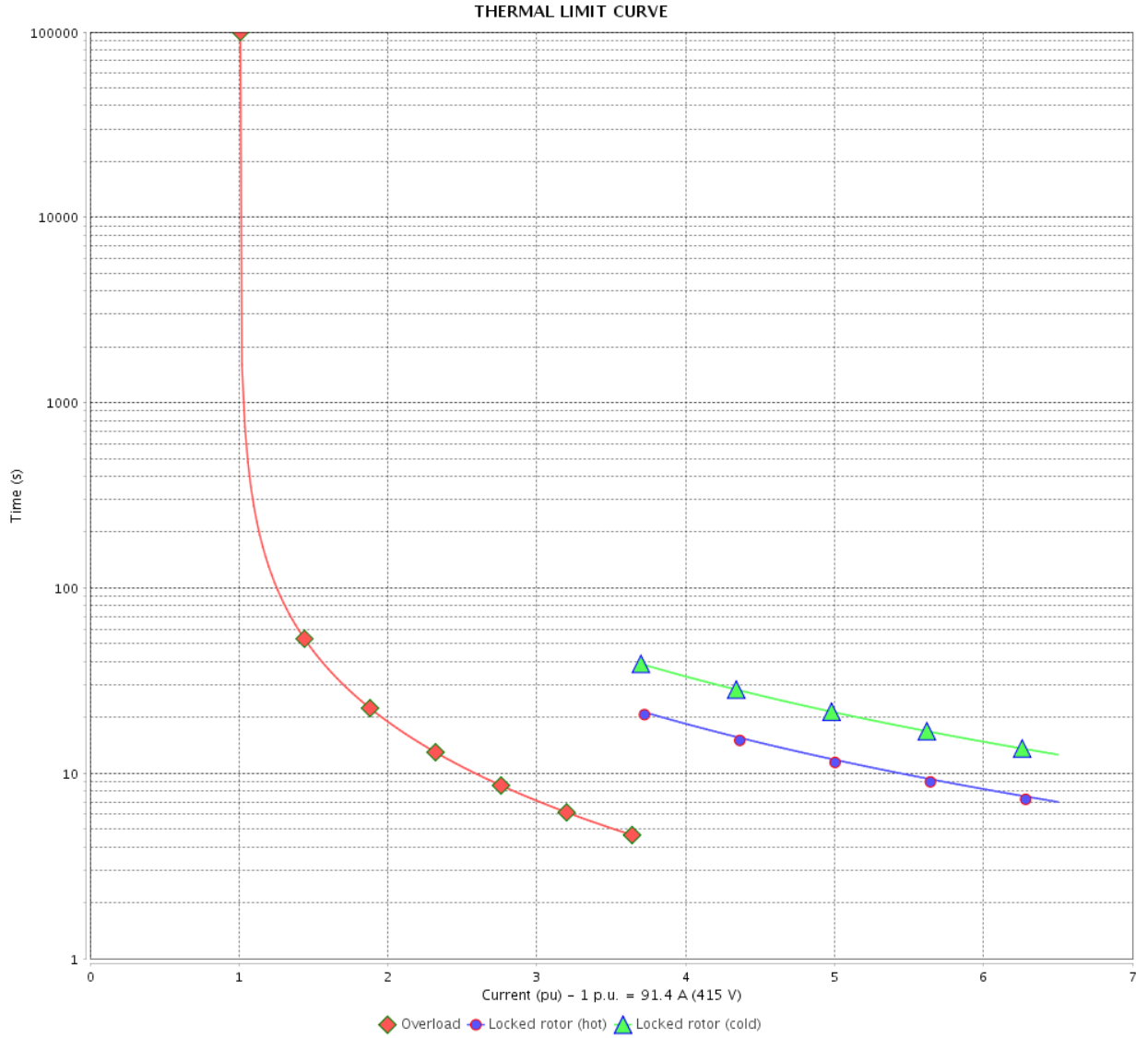
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Checked by			Page	Revision
Date	13/04/2022		28 / 36	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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Performed by		Page		Revision
Checked by		29 / 36		
Date		13/04/2022		

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

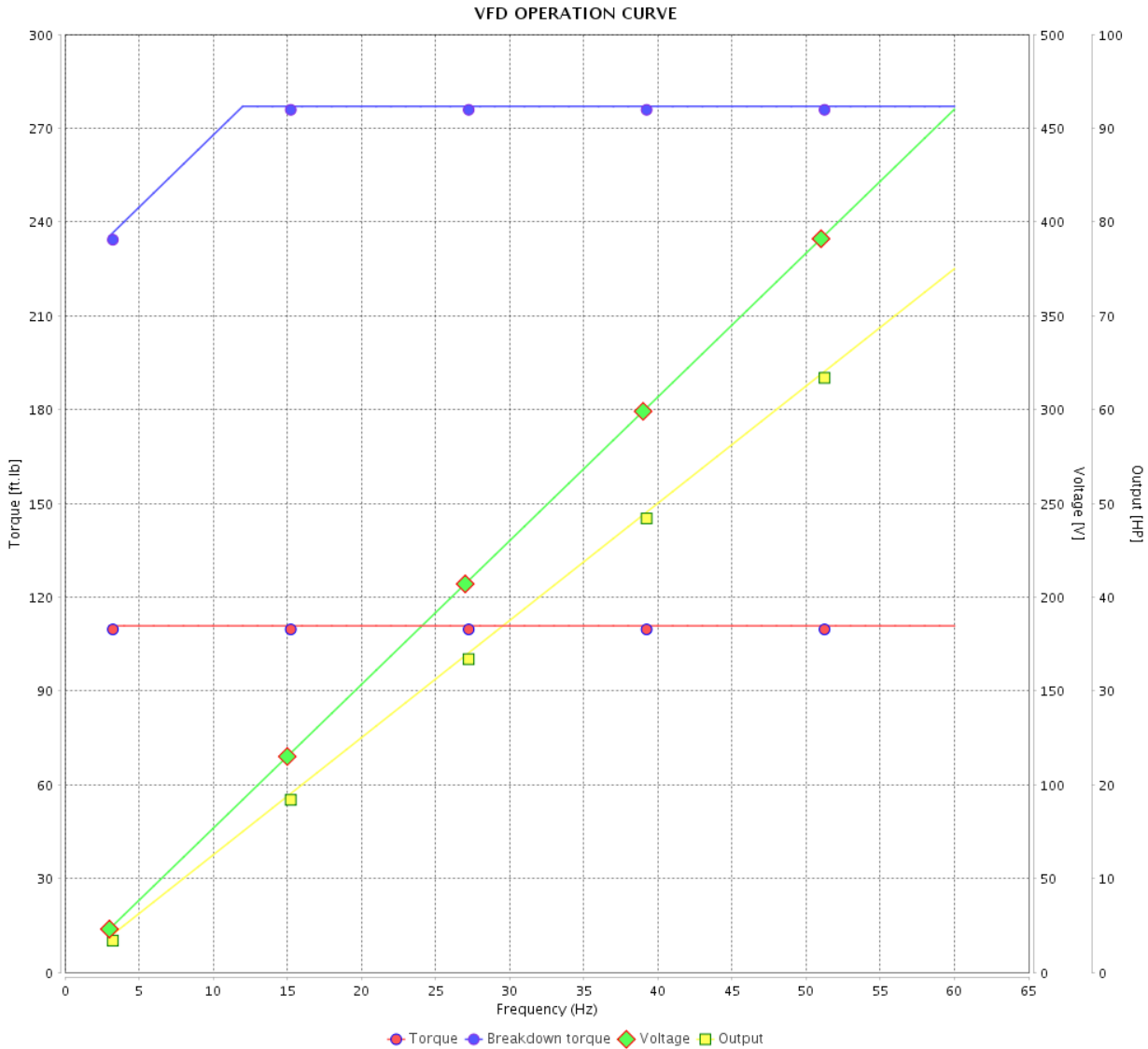


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11356016

Catalog # : 07536ET3G365TS-W22



Performance : 460 V 60 Hz 2P

Rated current : 81.9 A
 LRC : 6.7
 Rated torque : 111 ft.lb
 Locked rotor torque : 200 %
 Breakdown torque : 250 %
 Rated speed : 3555 rpm

Moment of inertia (J) : 11.9 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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Performed by			Page	Revision
Checked by				
Date				
		30 / 36		

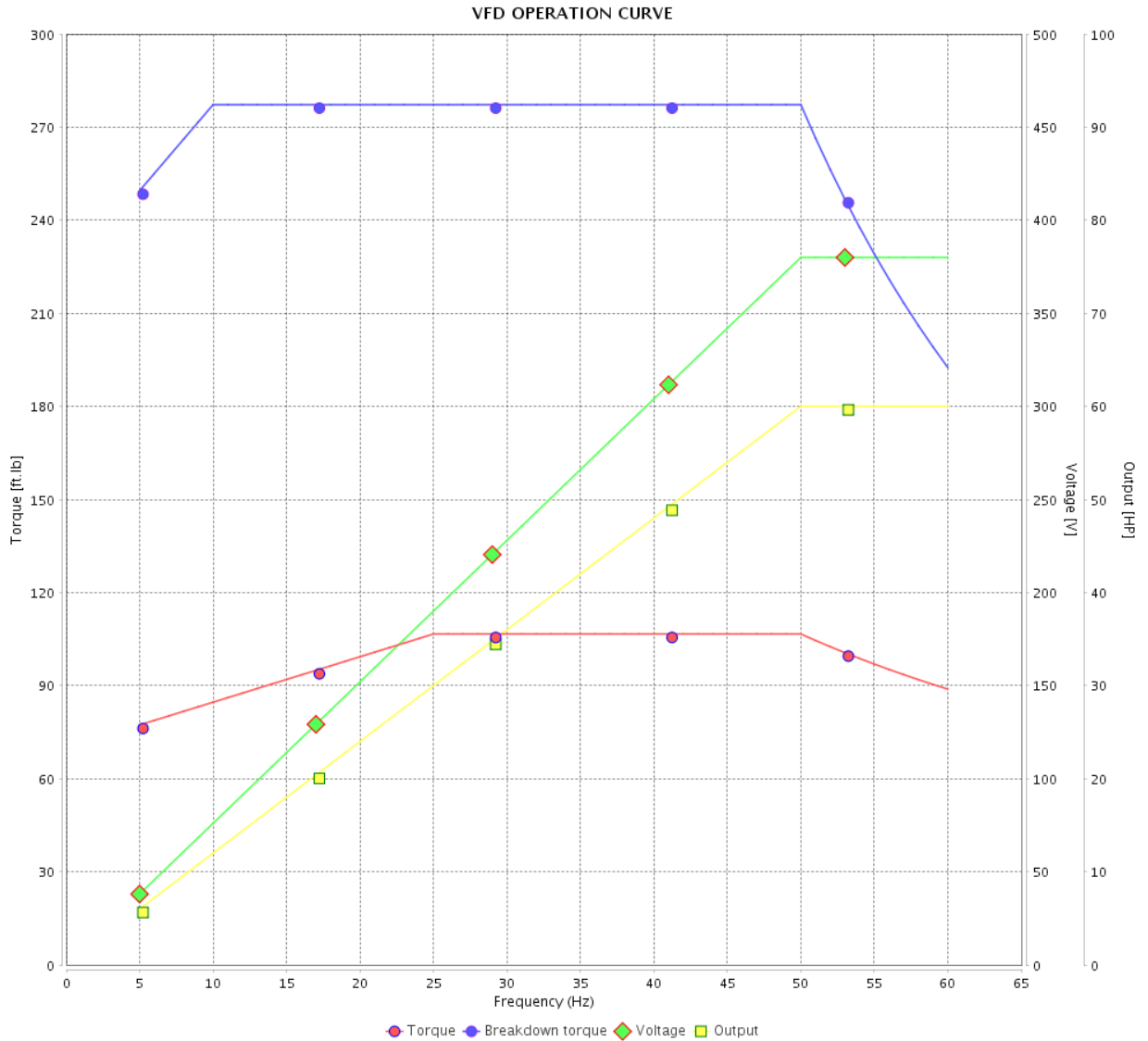
VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase
 Product code : 11356016
 Catalog # : 07536ET3G365TS-W22



Performance : 380 V 50 Hz 2P IE3

Rated current : 80.8 A	Moment of inertia (J) : 11.9 sq.ft.lb
LRC : 6.5	Duty cycle : Cont.(S1)
Rated torque : 107 ft.lb	Insulation class : F
Locked rotor torque : 210 %	Service factor : 1.00
Breakdown torque : 260 %	Temperature rise : 80 K
Rated speed : 2955 rpm	Design : B

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Performed by			Page 31 / 36	Revision
Checked by				
Date	13/04/2022			

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



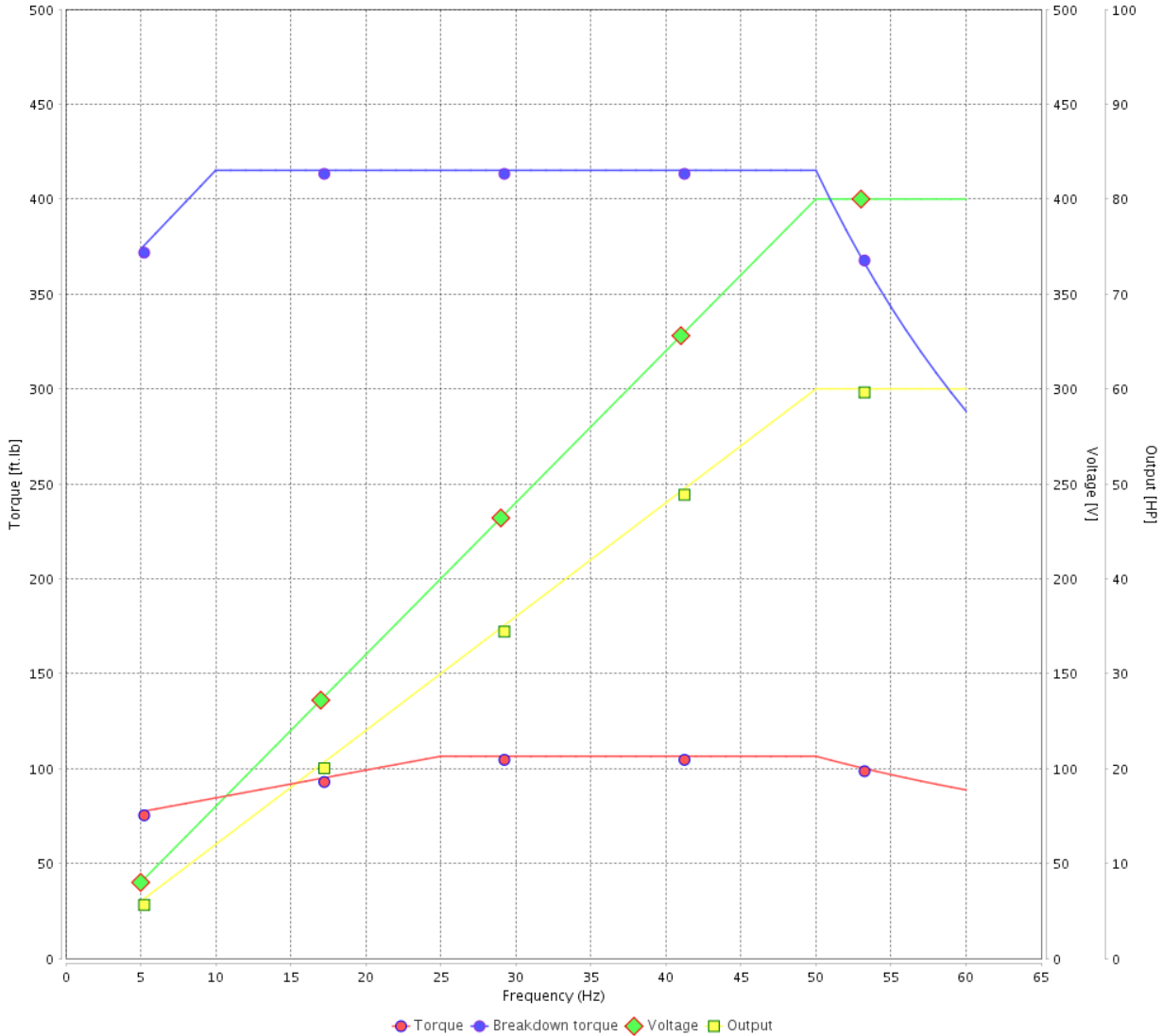
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11356016

Catalog # : 07536ET3G365TS-W22

VFD OPERATION CURVE



Performance : 400 V 50 Hz 2P IE3

Rated current : 78.5 A
 LRC : 7.1
 Rated torque : 106 ft.lb
 Locked rotor torque : 229 %
 Breakdown torque : 390 %
 Rated speed : 2960 rpm

Moment of inertia (J) : 11.9 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

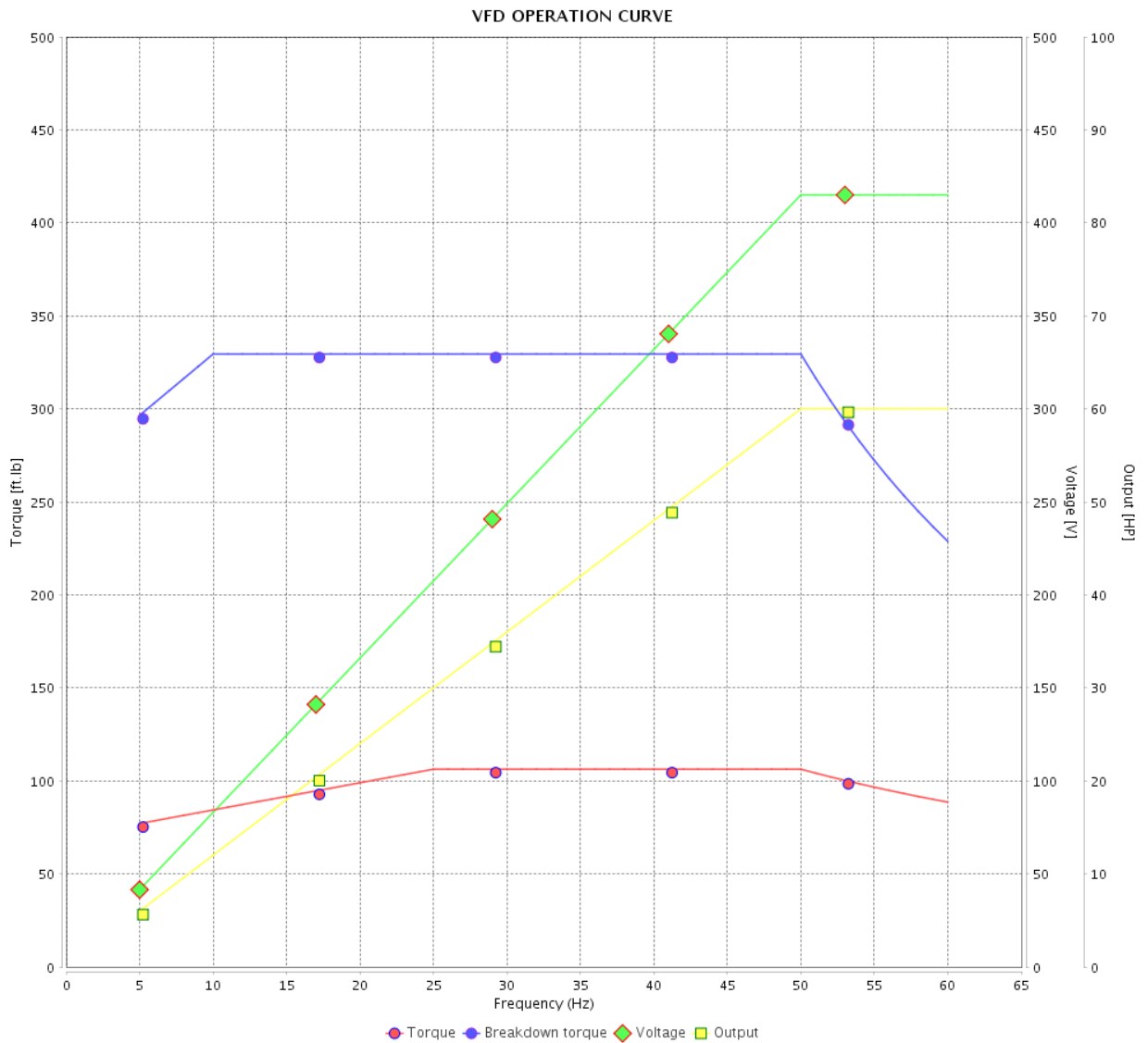


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11356016

Catalog # : 07536ET3G365TS-W22



Performance : 415 V 50 Hz 2P IE3

Rated current : 75.7 A
 LRC : 7.9
 Rated torque : 106 ft.lb
 Locked rotor torque : 250 %
 Breakdown torque : 310 %
 Rated speed : 2965 rpm

Moment of inertia (J) : 11.9 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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Date	13/04/2022			

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

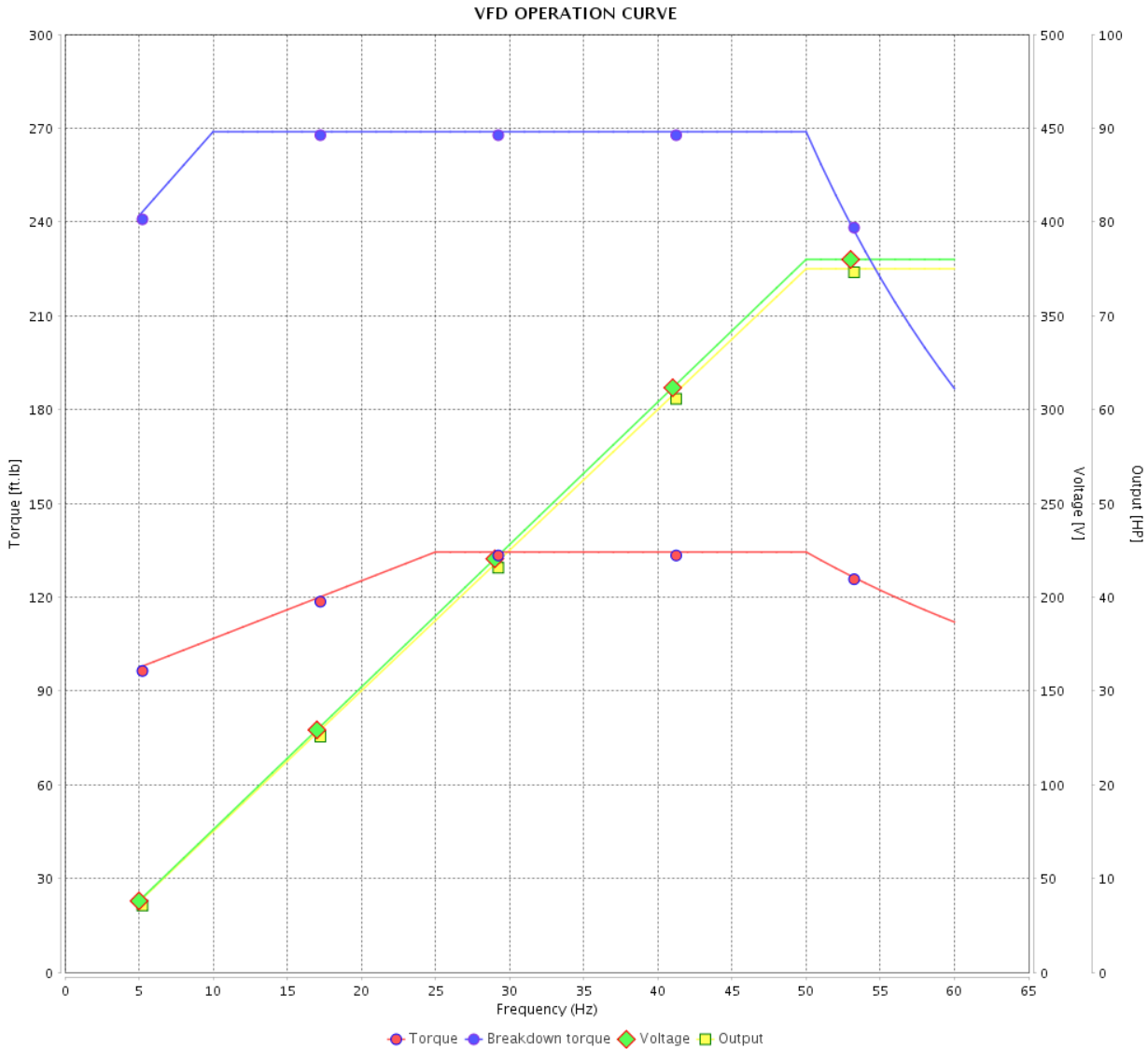


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11356016

Catalog # : 07536ET3G365TS-W22



Performance : 380 V 50 Hz 2P IE1

Rated current	: 100 A	Moment of inertia (J)	: 11.9 sq.ft.lb
LRC	: 5.2	Duty cycle	: Cont.(S1)
Rated torque	: 134 ft.lb	Insulation class	: F
Locked rotor torque	: 160 %	Service factor	: 1.00
Breakdown torque	: 200 %	Temperature rise	: 105 K
Rated speed	: 2930 rpm	Design	: B

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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

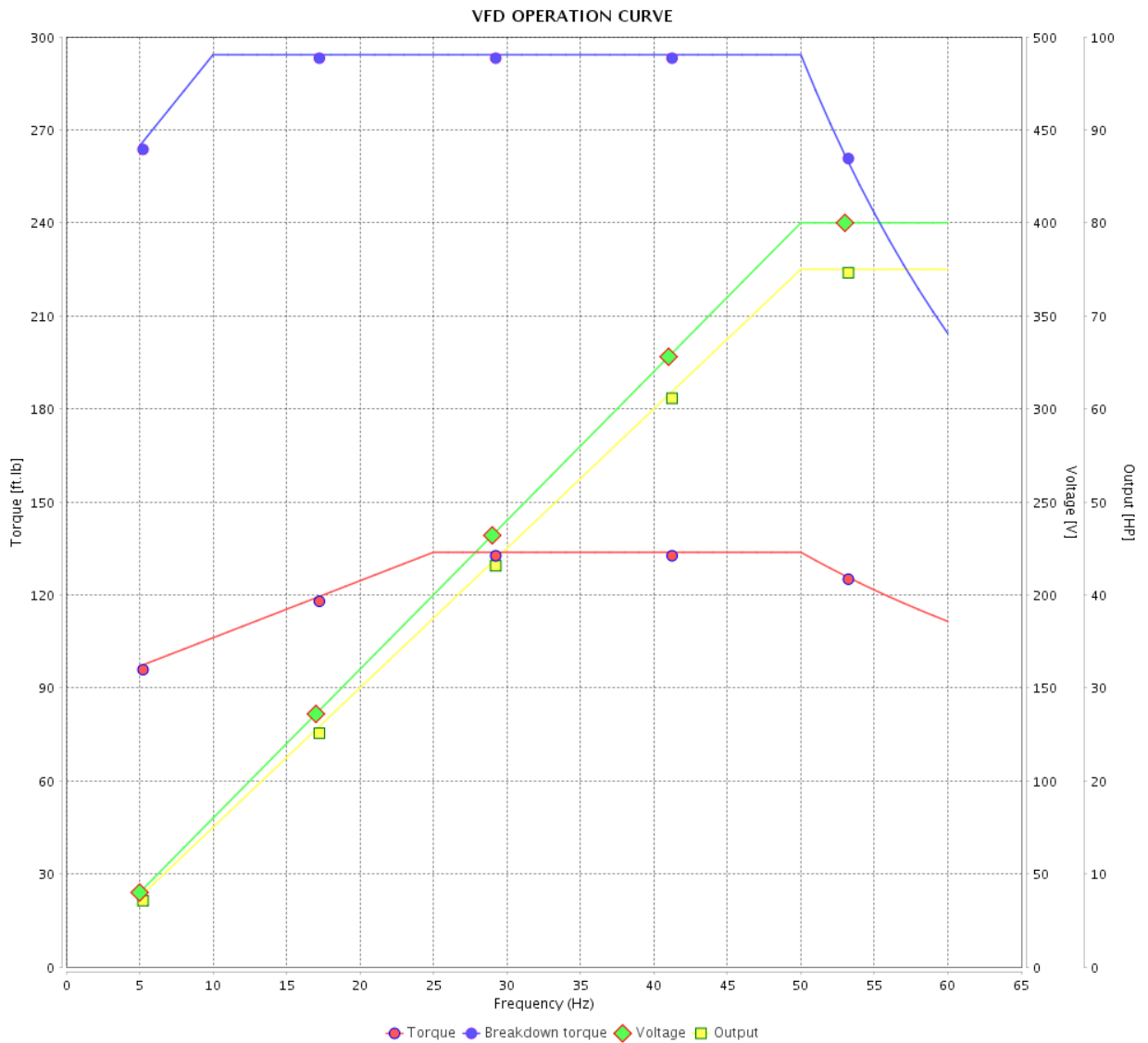


Customer : _____

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11356016

Catalog # : 07536ET3G365TS-W22



Performance : 400 V 50 Hz 2P IE1

Rated current : 94.8 A
 LRC : 5.9
 Rated torque : 134 ft.lb
 Locked rotor torque : 175 %
 Breakdown torque : 220 %
 Rated speed : 2945 rpm

Moment of inertia (J) : 11.9 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : B

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

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



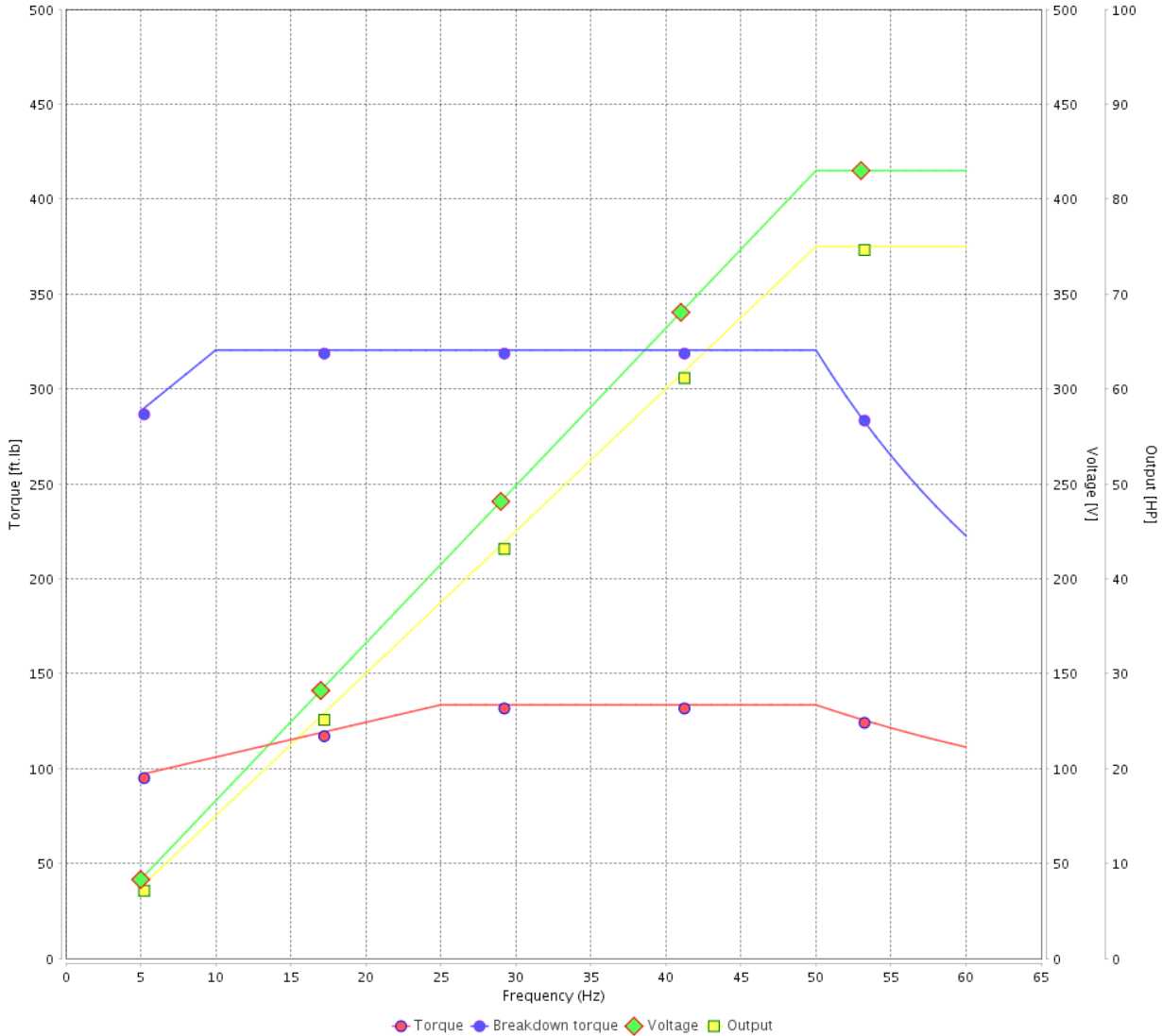
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11356016

Catalog # : 07536ET3G365TS-W22

VFD OPERATION CURVE



Performance : 415 V 50 Hz 2P IE1

Rated current	: 91.4 A	Moment of inertia (J)	: 11.9 sq.ft.lb
LRC	: 6.5	Duty cycle	: Cont.(S1)
Rated torque	: 134 ft.lb	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 240 %	Temperature rise	: 105 K
Rated speed	: 2950 rpm	Design	: B

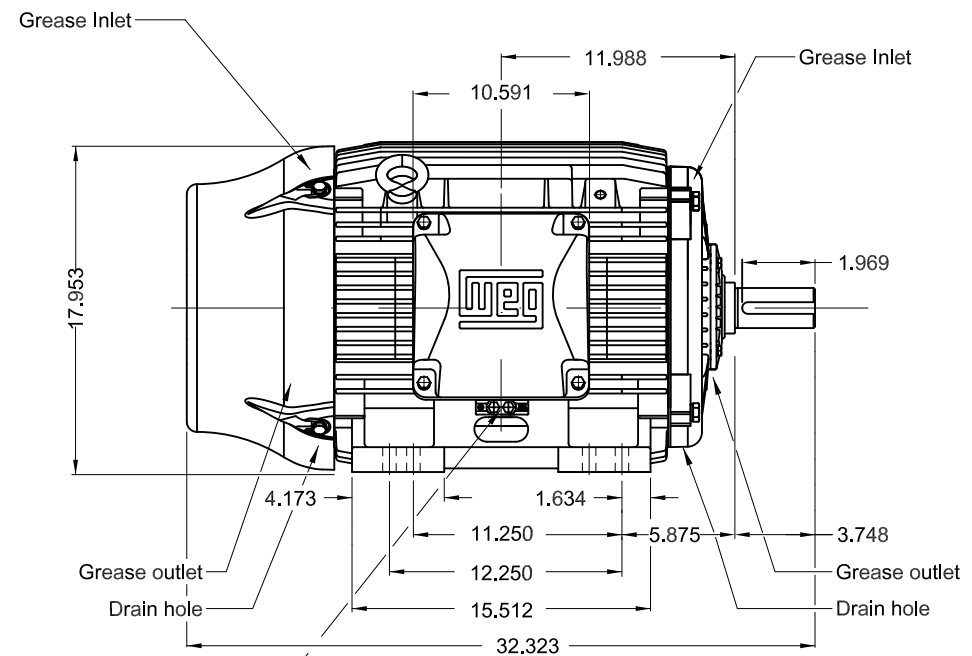
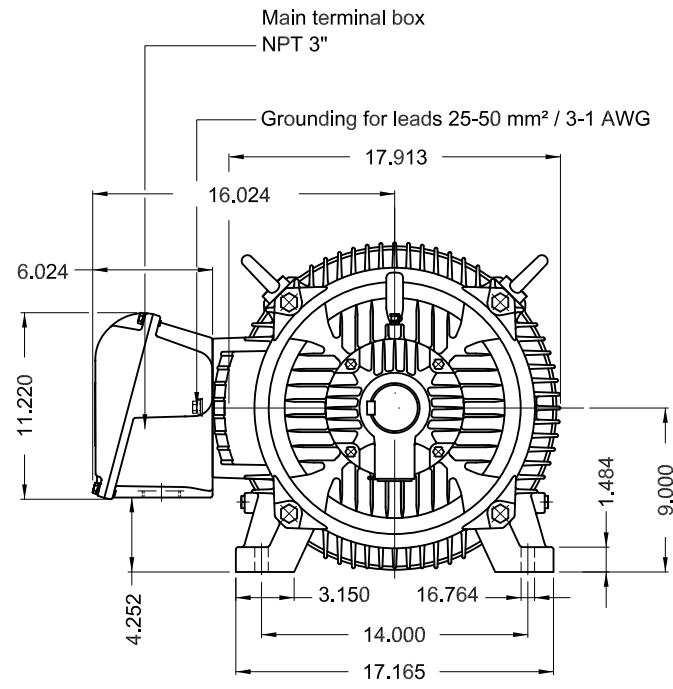
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Performed by			Page 36 / 36	Revision
Checked by				
Date	13/04/2022			

1 2 3 4 5 6

A

B

C



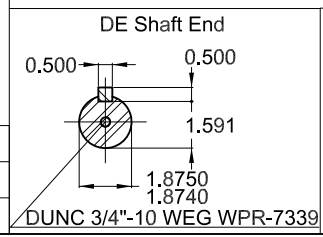
Grounding for leads 25-185 mm² / 3AWG-350MCM

D

E

75 HP 02 Poles 60 Hz A

Color RAL 5009
 Painting plan 203A
 Mounting B3R(D)



ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	PIRWBUSER	THREE PH. MOTOR W22 PREM. EFF.					
CHECKED		FRAME 364/5TS IP55 TEFC					
RELEASED							
REL DT.	WMO	Jaragua do Sul	Product Engineering				

PREVIEW
 WDD



SHEET 1 / 1

Dimensions in inches XME A3

MADE IN MEXICO
11356016



NEMA
Premium
W22



FOR SAFE AREA
Mod.TE1BFOXON
CC029A

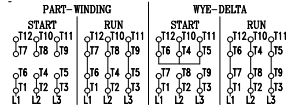


Class I, Div 2, Gr A, B, C and D - T3
Class I, Zone 2, IIC - T3
Class II, Div 2, Gr F and G - T4
For use on PWM: Gr. A, B, C, D and F,
VT 1000:1, CT 20:1, 1.00SF - T3A

MODEL 07536ET3G365TS-W22

Inverter Duty Motor
Severe Duty

PH3	60Hz	Fr. 364/5TS	1000m.a.s.l.	IP55	TEFC	851lb		
V	460			A	81.9			
HP	75			kW	55			
SF	1.25			SFA	102			
RPM	3555			PF	0.90			
AMB	40°C			INS cl.	F DT80K	NEMA NOM EFF	93.6%	
DUTY CONT.				DES B	Code G			



→ 6314-C3 (27g)
→ 6314-C3 (27g)



MOBIL POLYREX EM (4000h)

