

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer							
Product line	: NEMA Premium Efficiency Three-Phase	Product code	: 11433391				
		Catalog #	: 00518ST3QIE184TC-W22				
Frame	: 182/4TC	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	: 117 lb				
Protection degree	: IP55	Moment of inertia (J)	: 0.4003 sq.ft.lb				
Design	: B						
Output [HP]	5	4	4	4	5	5	5
Poles	4	4	4	4	4	4	4
Frequency [Hz]	60	50	50	50	50	50	50
Rated voltage [V]	460	380	400	415	380	400	415
Rated current [A]	6.49	6.42	6.21	6.23	7.74	7.44	7.35
L. R. Amperes [A]	50.0	44.9	47.2	49.8	44.9	47.6	50.7
LRC [A]	7.7x(Code J)	7.0x(Code J)	7.6x(Code K)	8.0x(Code K)	5.8x(Code G)	6.4x(Code H)	6.9x(Code J)
No load current [A]	2.90	2.80	3.00	3.20	2.90	3.00	3.20
Rated speed [RPM]	1750	1455	1458	1462	1435	1440	1450
Slip [%]	2.78	3.00	2.80	2.53	4.33	4.00	3.33
Rated torque [ft.lb]	15.0	14.4	14.4	14.4	18.3	18.2	18.1
Locked rotor torque [%]	229	229	260	290	180	210	229
Breakdown torque [%]	300	280	300	320	240	240	260
Service factor	1.25	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)	59s (cold) 33s (hot)	54s (cold) 30s (hot)	50s (cold) 28s (hot)	45s (cold) 25s (hot)	43s (cold) 24s (hot)	41s (cold) 23s (hot)
Noise level ²	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)
Efficiency (%)	25%						
	50%	88.5	87.5	86.7	86.5	88.5	87.5
	75%	89.5	88.2	88.2	88.2	87.5	88.5
	100%	89.5	87.7	88.2	88.2	86.5	87.5
Power Factor	25%						
	50%	0.62	0.61	0.57	0.53	0.69	0.65
	75%	0.74	0.75	0.71	0.67	0.80	0.77
	100%	0.80	0.81	0.79	0.76	0.84	0.80
Bearing type	: Drive end : 6207 C3	Non drive end : 6206 C3	Foundation loads				
Sealing	: Inpro/Seal	Inpro/Seal	Max. traction : 242 lb				
Lubrication interval	: 20000 h	20000 h	Max. compression : 359 lb				
Lubricant amount	: 7 g	5 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



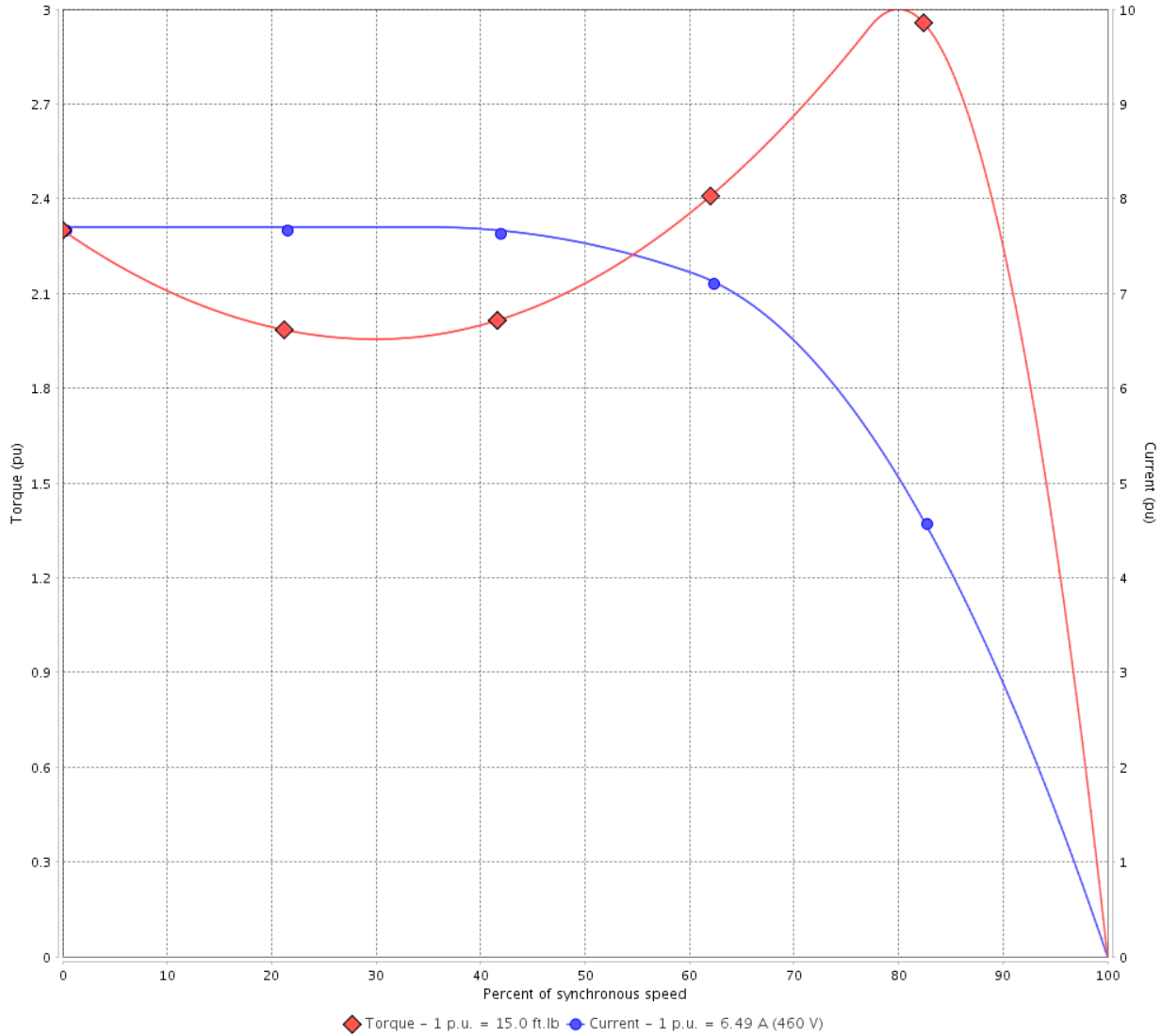
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11433391

Catalog # : 00518ST3QIE184TC-W22

TORQUE AND CURRENT VS SPEED CURVE



Performance : 460 V 60 Hz 4P

Rated current	: 6.49 A	Moment of inertia (J)	: 0.4003 sq.ft.lb
LRC	: 7.7	Duty cycle	: Cont.(S1)
Rated torque	: 15.0 ft.lb	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.25
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1750 rpm	Design	: B

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

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TORQUE AND CURRENT VS SPEED CURVE



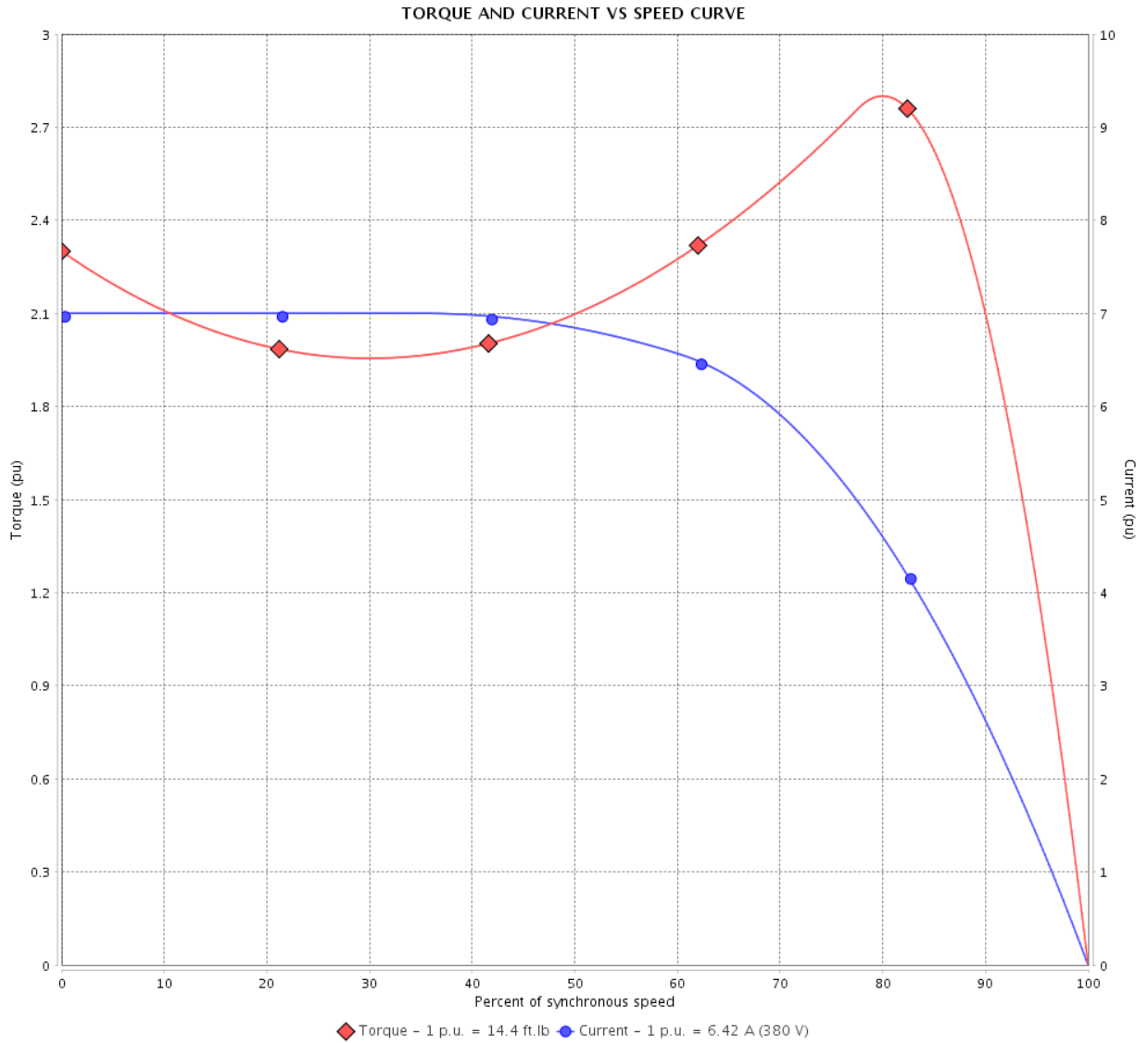
Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11433391

Catalog # : 00518ST3QIE184TC-W22



Performance : 380 V 50 Hz 4P IE3

Rated current	: 6.42 A	Moment of inertia (J)	: 0.4003 sq.ft.lb
LRC	: 7.0	Duty cycle	: Cont.(S1)
Rated torque	: 14.4 ft.lb	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.15
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 1455 rpm	Design	: B

Locked rotor time : 59s (cold) 33s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



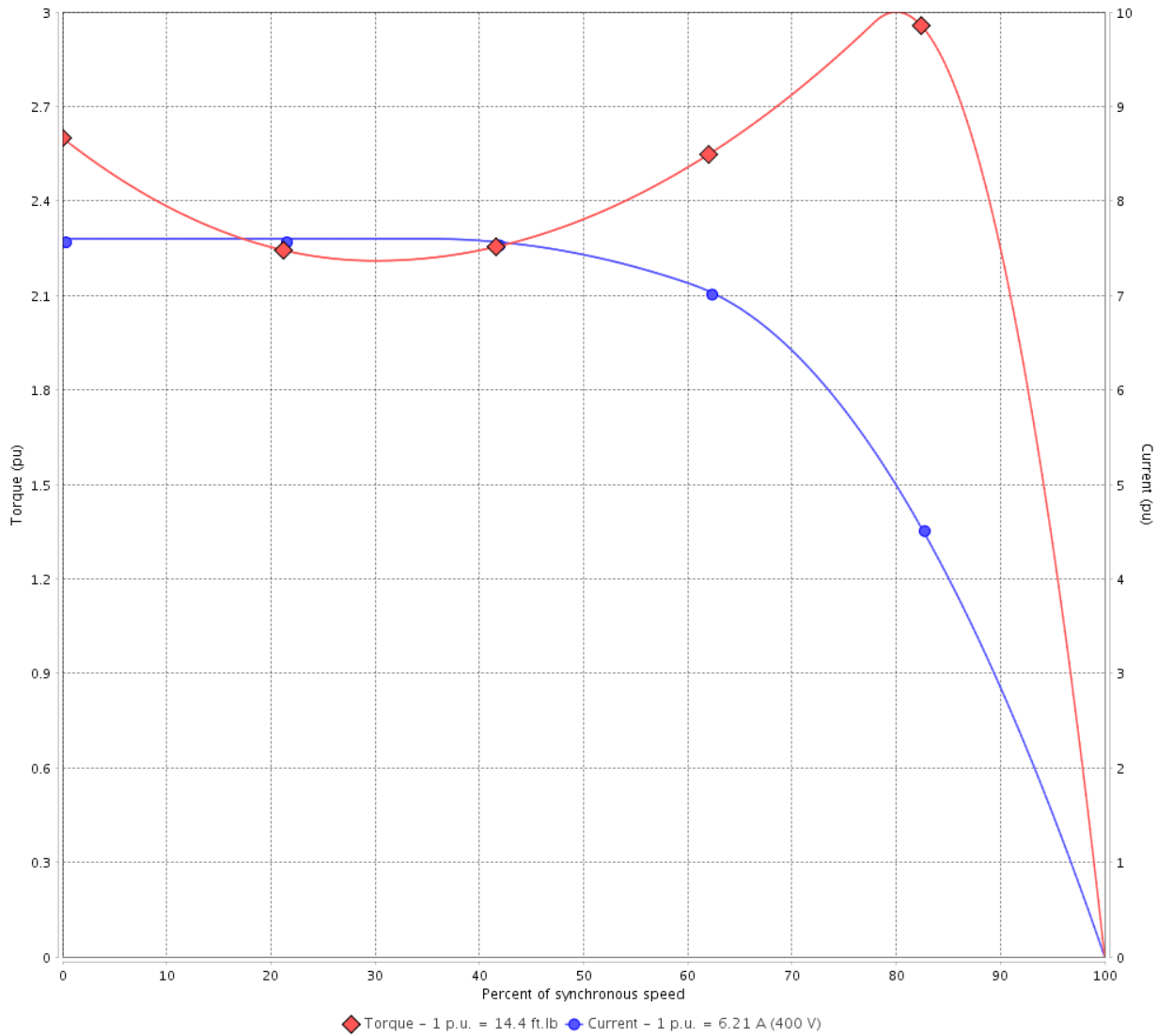
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11433391

Catalog # : 00518ST3QIE184TC-W22

TORQUE AND CURRENT VS SPEED CURVE



Performance : 400 V 50 Hz 4P IE3

Rated current	: 6.21 A	Moment of inertia (J)	: 0.4003 sq.ft.lb
LRC	: 7.6	Duty cycle	: Cont.(S1)
Rated torque	: 14.4 ft.lb	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1458 rpm	Design	: B

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

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TORQUE AND CURRENT VS SPEED CURVE



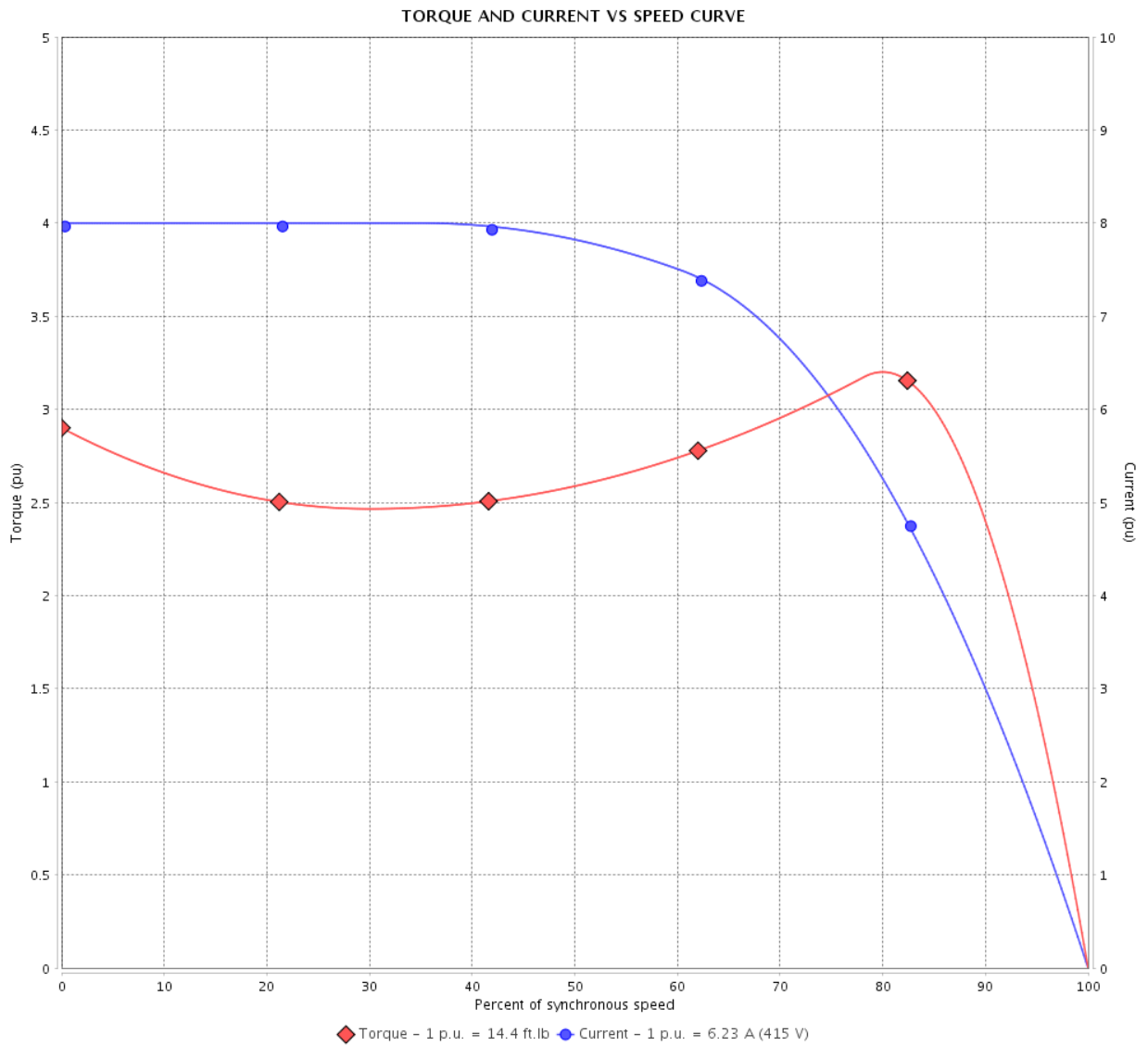
Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11433391

Catalog # : 00518ST3QIE184TC-W22



Performance : 415 V 50 Hz 4P IE3

Rated current	: 6.23 A	Moment of inertia (J)	: 0.4003 sq.ft.lb
LRC	: 8.0	Duty cycle	: Cont.(S1)
Rated torque	: 14.4 ft.lb	Insulation class	: F
Locked rotor torque	: 290 %	Service factor	: 1.15
Breakdown torque	: 320 %	Temperature rise	: 80 K
Rated speed	: 1462 rpm	Design	: B

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

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TORQUE AND CURRENT VS SPEED CURVE

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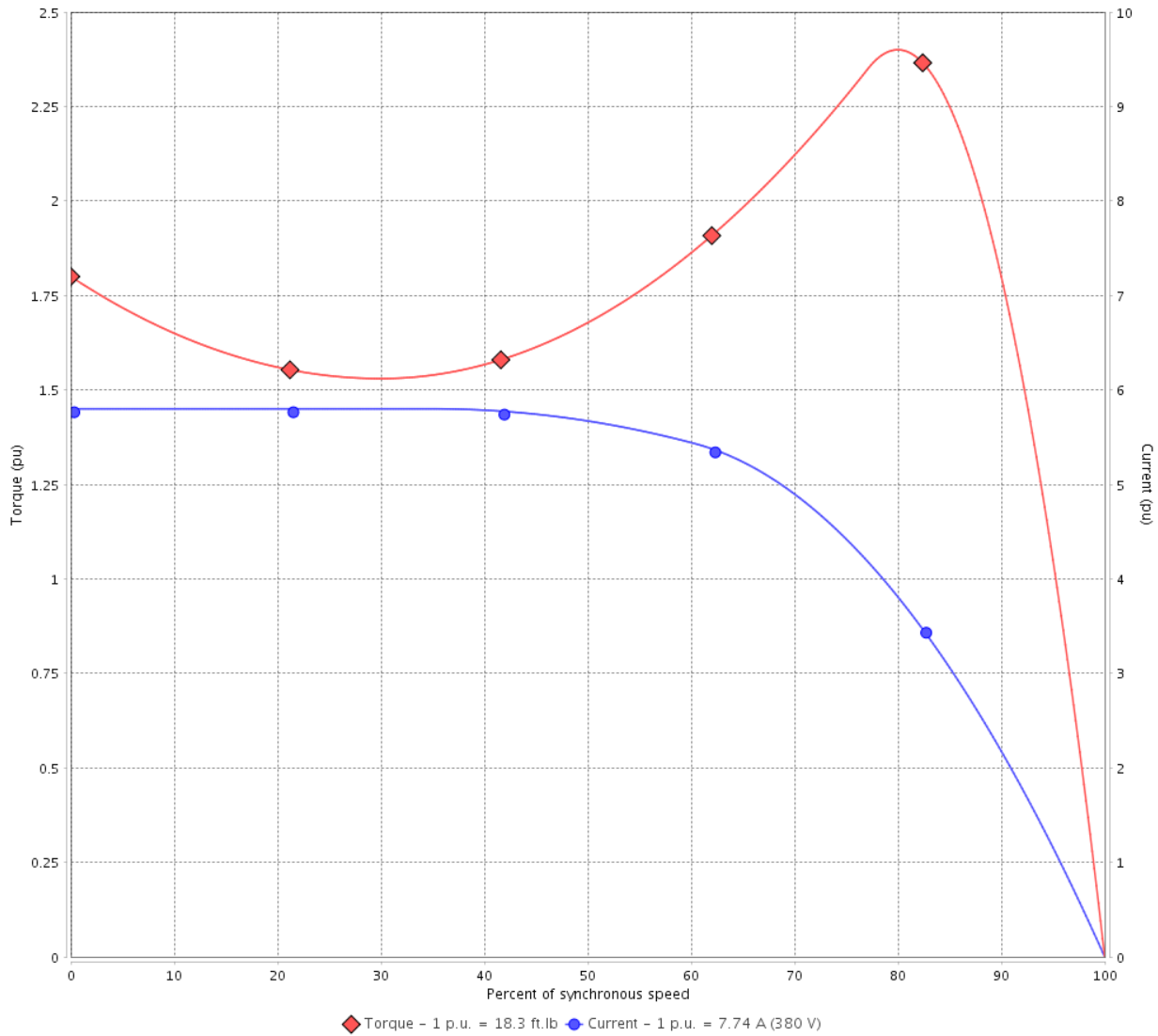
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11433391

Catalog # : 00518ST3QIE184TC-W22

TORQUE AND CURRENT VS SPEED CURVE



Performance : 380 V 50 Hz 4P IE2

Rated current	: 7.74 A	Moment of inertia (J)	: 0.4003 sq.ft.lb
LRC	: 5.8	Duty cycle	: Cont.(S1)
Rated torque	: 18.3 ft.lb	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.15
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 1435 rpm	Design	: B

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

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TORQUE AND CURRENT VS SPEED CURVE



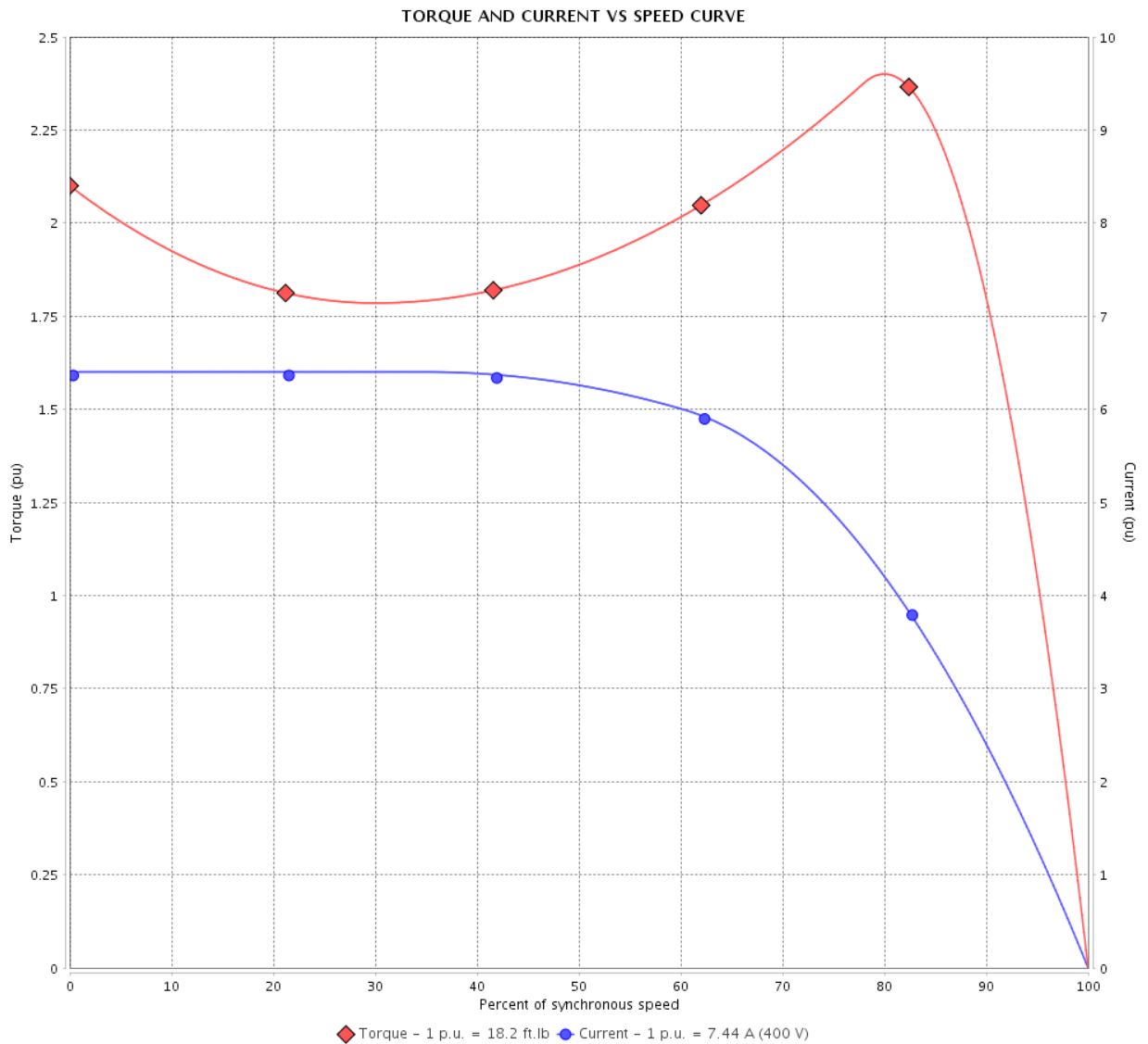
Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11433391

Catalog # : 00518ST3QIE184TC-W22



Performance : 400 V 50 Hz 4P IE2

Rated current : 7.44 A
 LRC : 6.4
 Rated torque : 18.2 ft.lb
 Locked rotor torque : 210 %
 Breakdown torque : 240 %
 Rated speed : 1440 rpm

Moment of inertia (J) : 0.4003 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

Locked rotor time : 43s (cold) 24s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



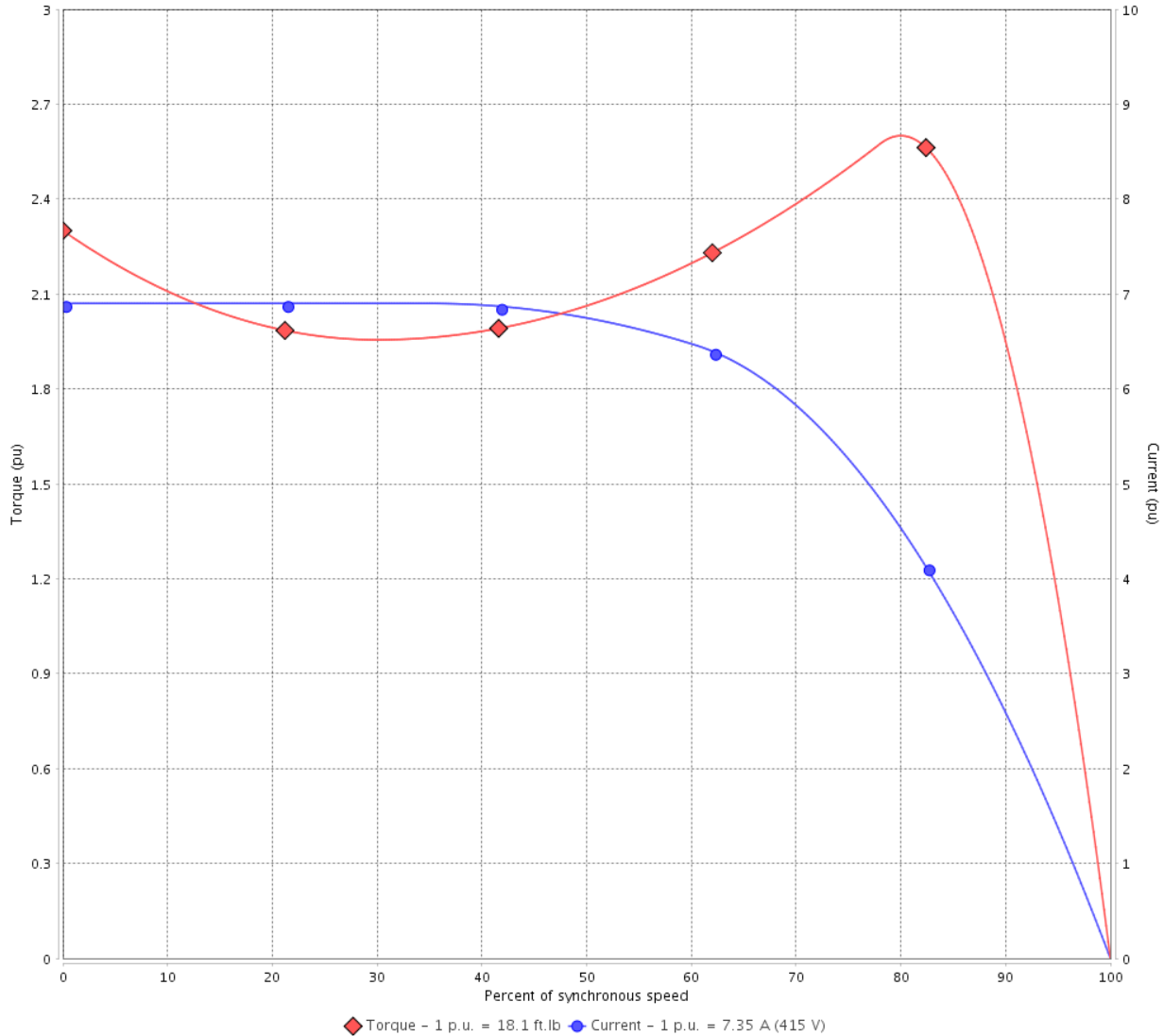
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11433391

Catalog # : 00518ST3QIE184TC-W22

TORQUE AND CURRENT VS SPEED CURVE



Performance : 415 V 50 Hz 4P IE2

Rated current	: 7.35 A	Moment of inertia (J)	: 0.4003 sq.ft.lb
LRC	: 6.9	Duty cycle	: Cont.(S1)
Rated torque	: 18.1 ft.lb	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.15
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1450 rpm	Design	: B

Locked rotor time : 41s (cold) 23s (hot)

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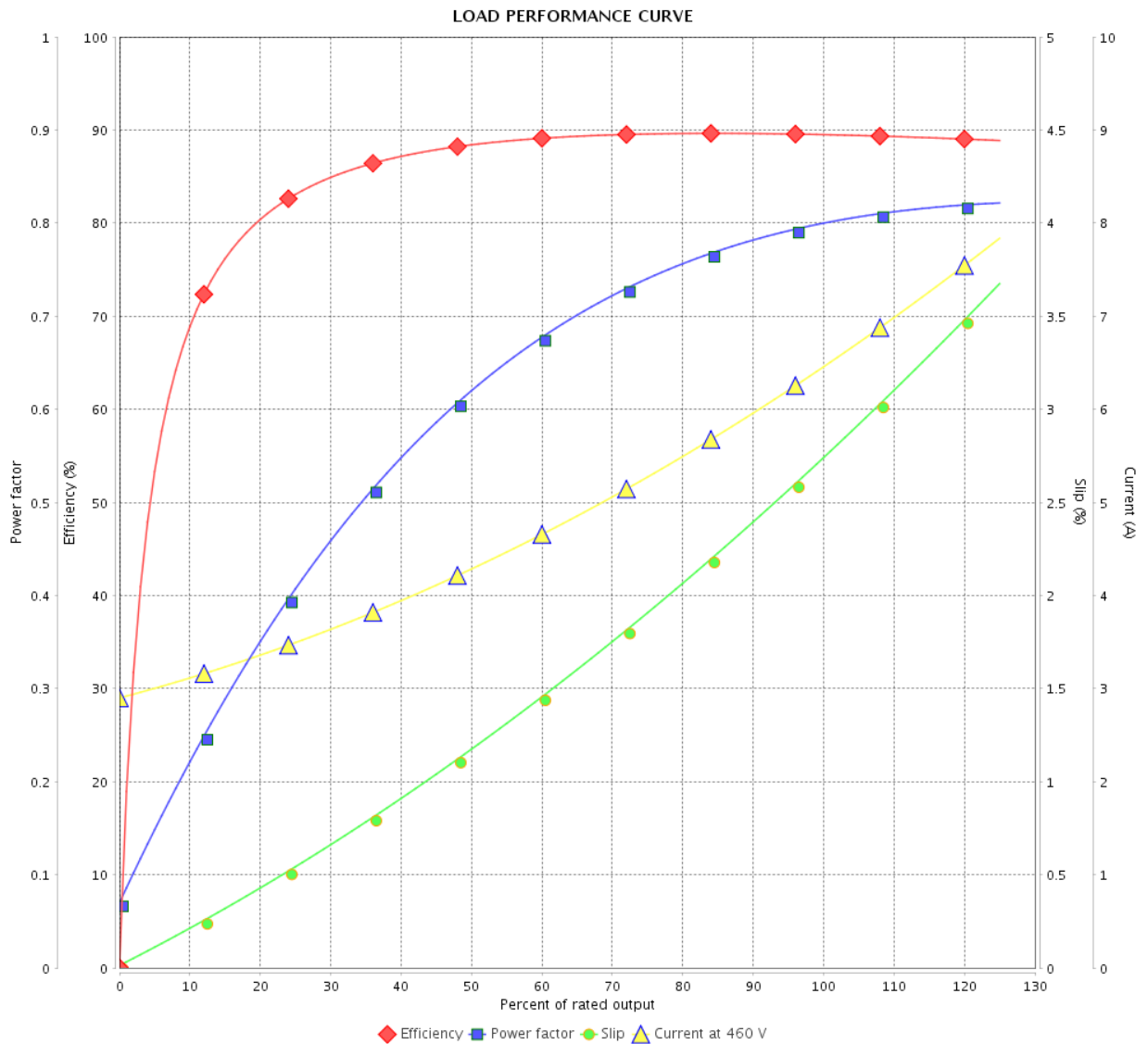


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11433391

Catalog # : 00518ST3QIE184TC-W22



Performance : 460 V 60 Hz 4P

Rated current : 6.49 A
 LRC : 7.7
 Rated torque : 15.0 ft.lb
 Locked rotor torque : 229 %
 Breakdown torque : 300 %
 Rated speed : 1750 rpm

Moment of inertia (J) : 0.4003 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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Three Phase Induction Motor - Squirrel Cage



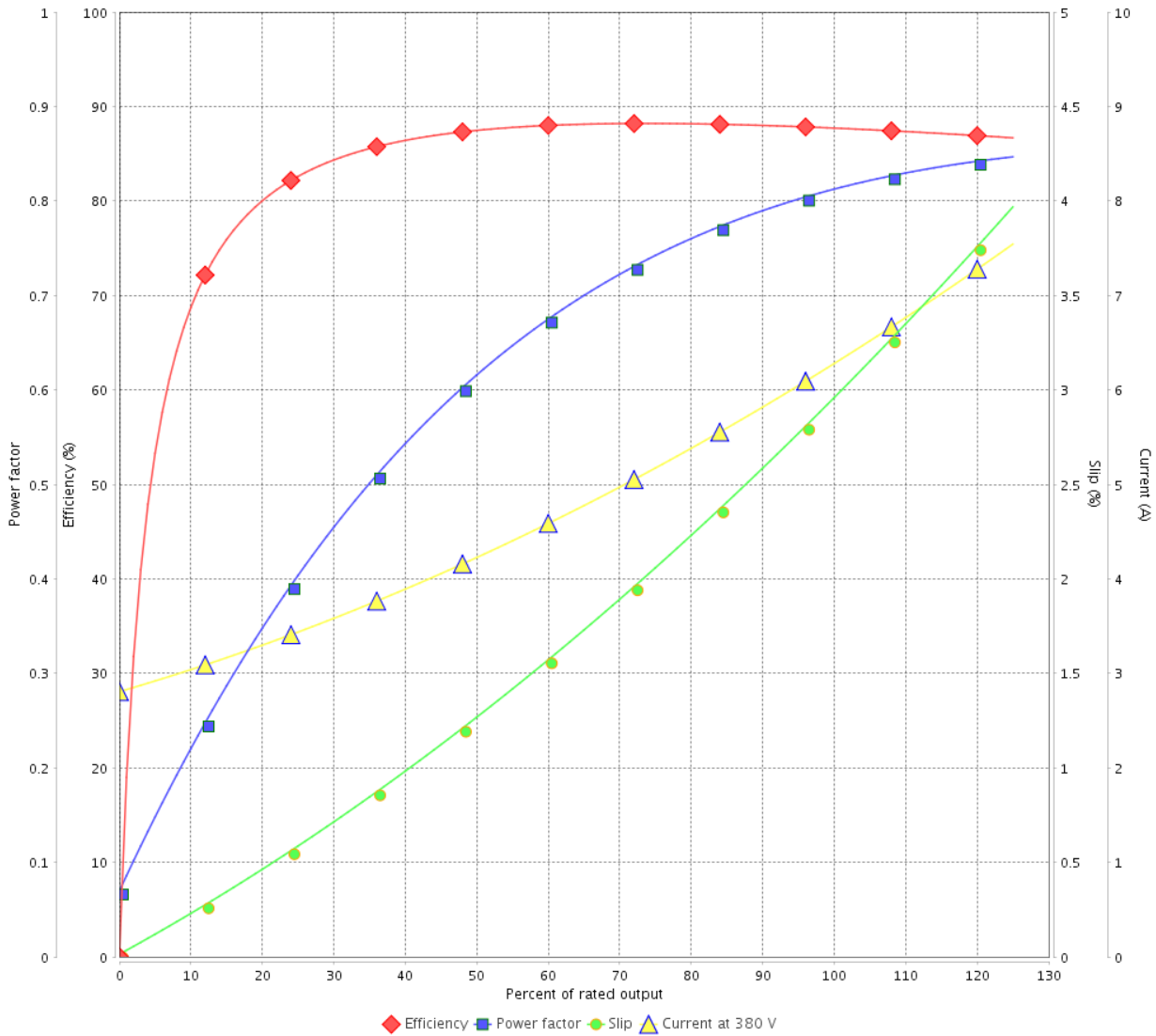
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11433391

Catalog # : 00518ST3QIE184TC-W22

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Performance : 380 V 50 Hz 4P IE3

Rated current : 6.42 A
 LRC : 7.0
 Rated torque : 14.4 ft.lb
 Locked rotor torque : 229 %
 Breakdown torque : 280 %
 Rated speed : 1455 rpm

Moment of inertia (J) : 0.4003 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

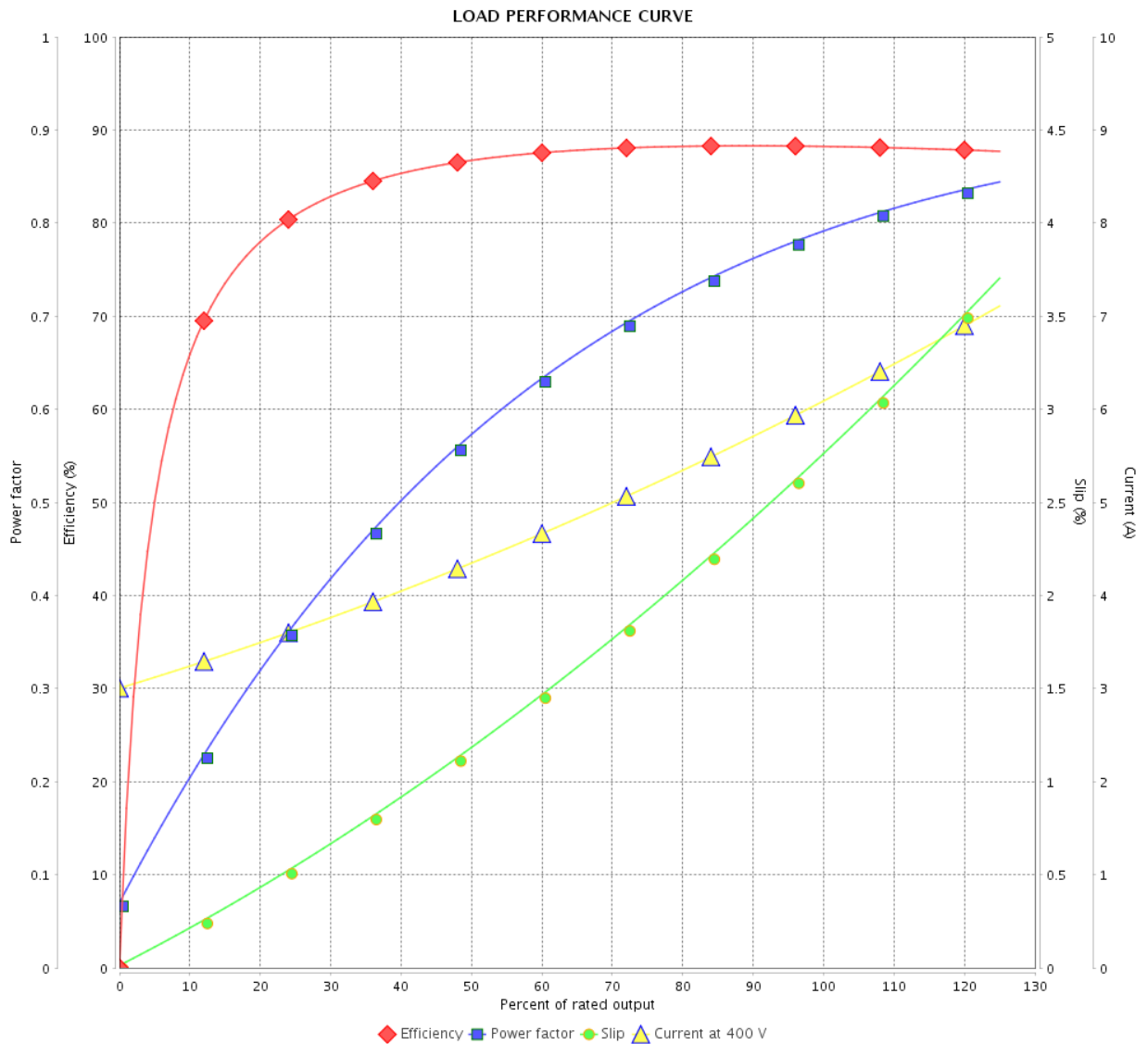


Customer : _____

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11433391

Catalog # : 00518ST3QIE184TC-W22



Performance : 400 V 50 Hz 4P IE3

Rated current : 6.21 A
 LRC : 7.6
 Rated torque : 14.4 ft.lb
 Locked rotor torque : 260 %
 Breakdown torque : 300 %
 Rated speed : 1458 rpm

Moment of inertia (J) : 0.4003 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



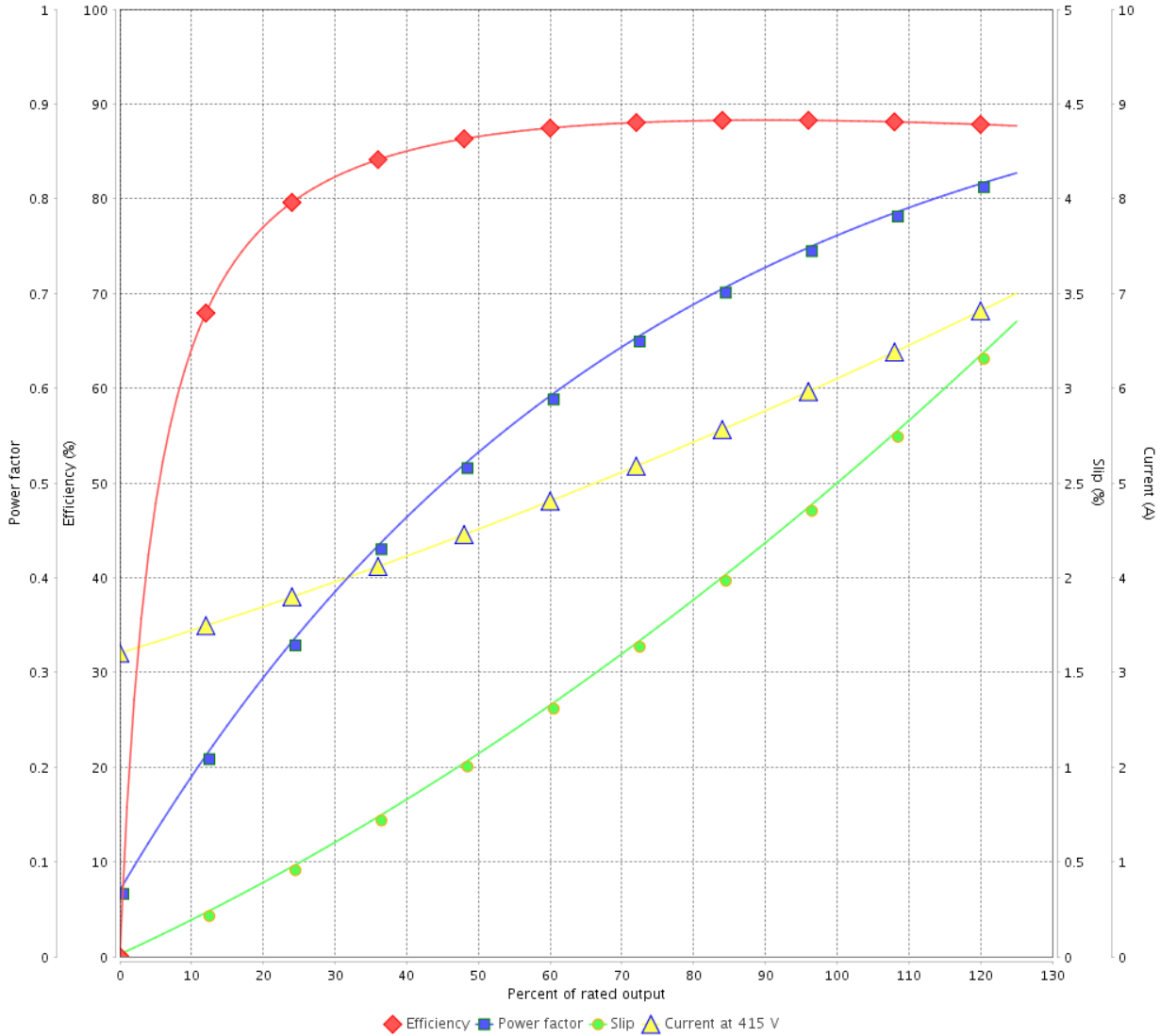
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11433391

Catalog # : 00518ST3QIE184TC-W22

LOAD PERFORMANCE CURVE



Performance : 415 V 50 Hz 4P IE3

Rated current : 6.23 A
 LRC : 8.0
 Rated torque : 14.4 ft.lb
 Locked rotor torque : 290 %
 Breakdown torque : 320 %
 Rated speed : 1462 rpm

Moment of inertia (J) : 0.4003 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

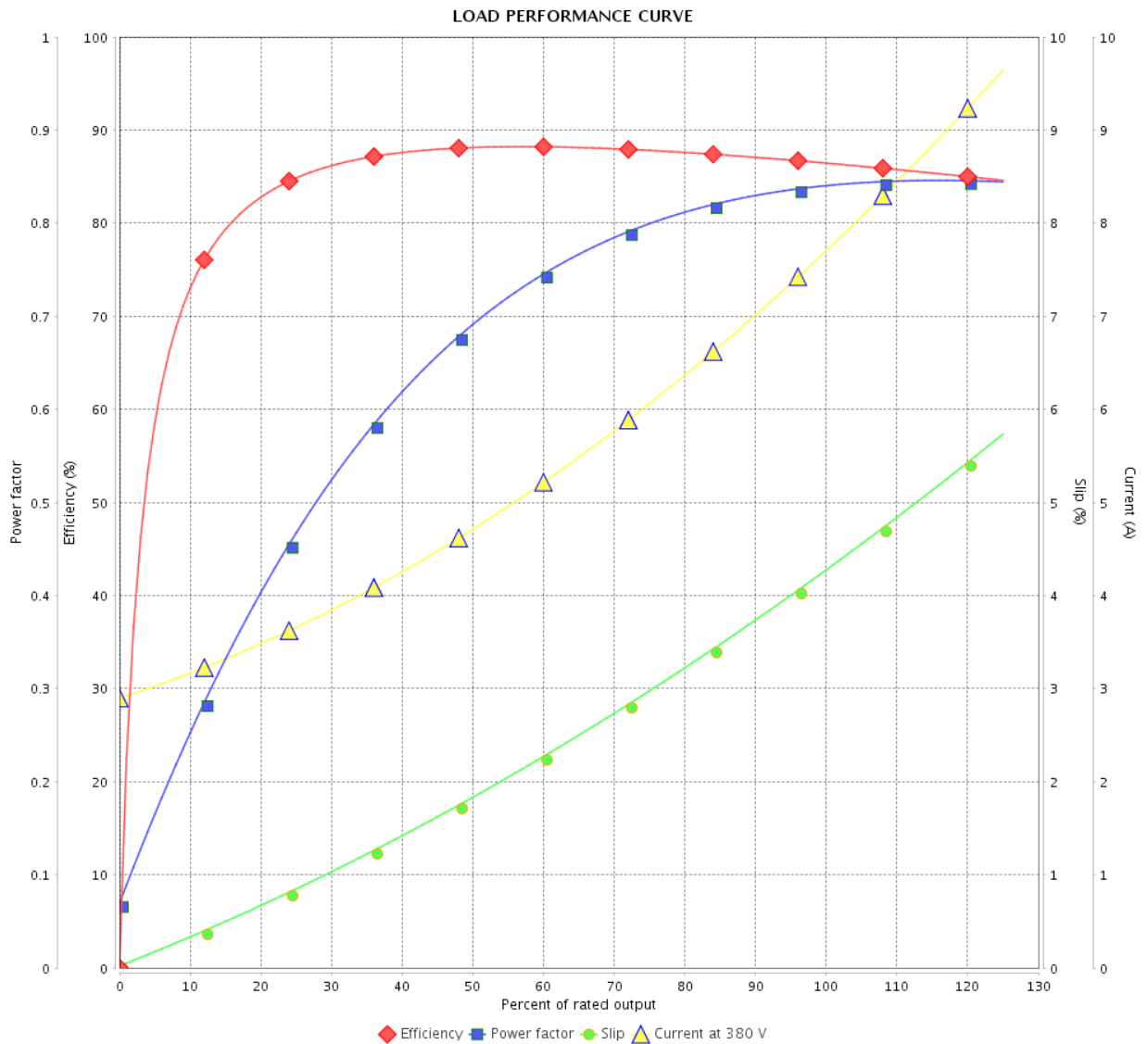


Customer : _____

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11433391

Catalog # : 00518ST3QIE184TC-W22



Performance : 380 V 50 Hz 4P IE2

Rated current : 7.74 A
 LRC : 5.8
 Rated torque : 18.3 ft.lb
 Locked rotor torque : 180 %
 Breakdown torque : 240 %
 Rated speed : 1435 rpm

Moment of inertia (J) : 0.4003 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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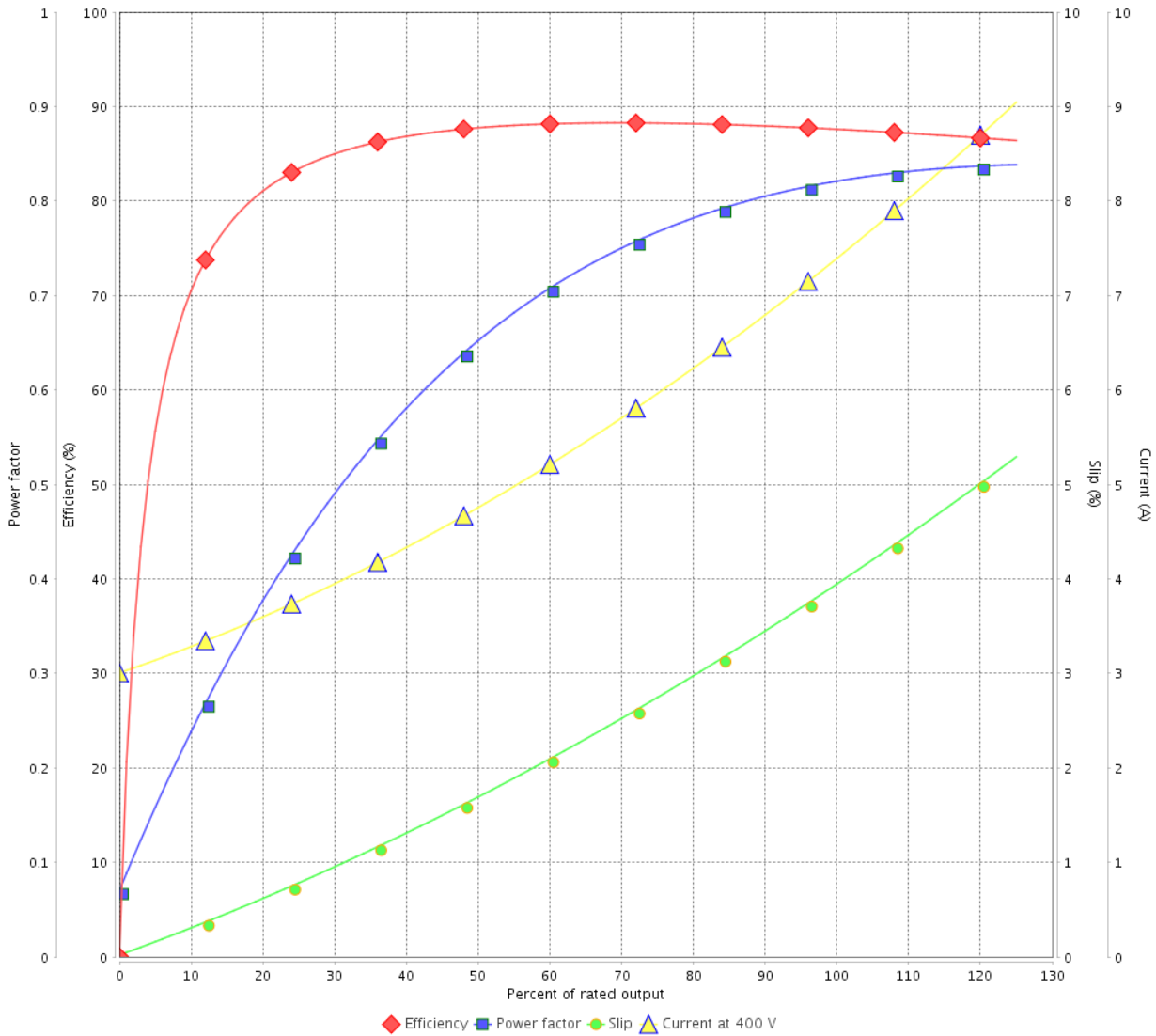
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11433391

Catalog # : 00518ST3QIE184TC-W22

LOAD PERFORMANCE CURVE



Performance : 400 V 50 Hz 4P IE2

Rated current : 7.44 A
 LRC : 6.4
 Rated torque : 18.2 ft.lb
 Locked rotor torque : 210 %
 Breakdown torque : 240 %
 Rated speed : 1440 rpm

Moment of inertia (J) : 0.4003 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

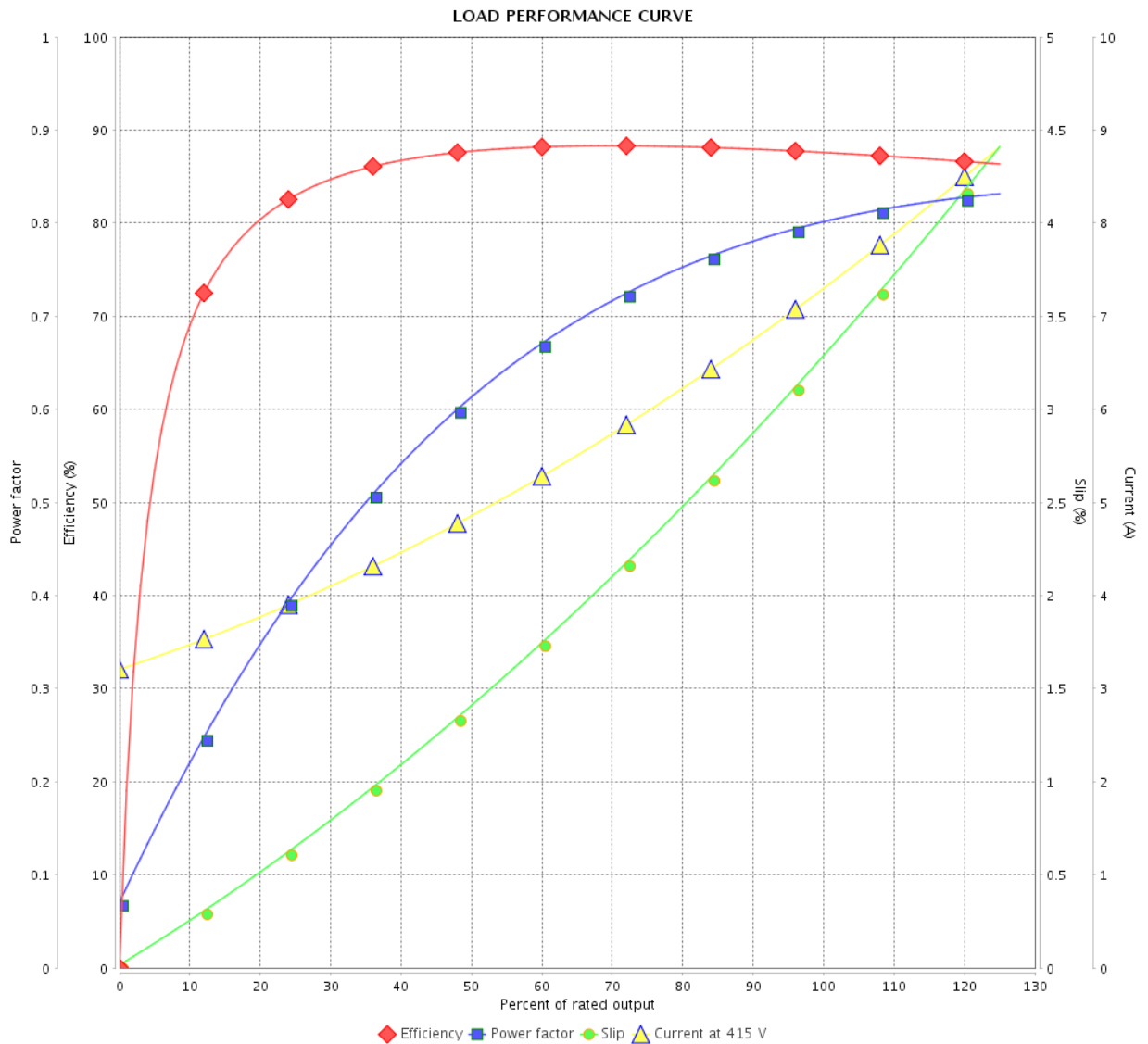


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11433391

Catalog # : 00518ST3QIE184TC-W22



Performance : 415 V 50 Hz 4P IE2

Rated current : 7.35 A
 LRC : 6.9
 Rated torque : 18.1 ft.lb
 Locked rotor torque : 229 %
 Breakdown torque : 260 %
 Rated speed : 1450 rpm

Moment of inertia (J) : 0.4003 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 :

Product line : NEMA Premium Efficiency Three-Phase
 Product code : 11433391
 Catalog # : 00518ST3QIE184TC-W22

Performance : 460 V 60 Hz 4P

Rated current : 6.49 A	Moment of inertia (J) : 0.4003 sq.ft.lb
LRC : 7.7	Duty cycle : Cont.(S1)
Rated torque : 15.0 ft.lb	Insulation class : F
Locked rotor torque : 229 %	Service factor : 1.25
Breakdown torque : 300 %	Temperature rise : 80 K
Rated speed : 1750 rpm	Design : B

Heating constant

Cooling constant

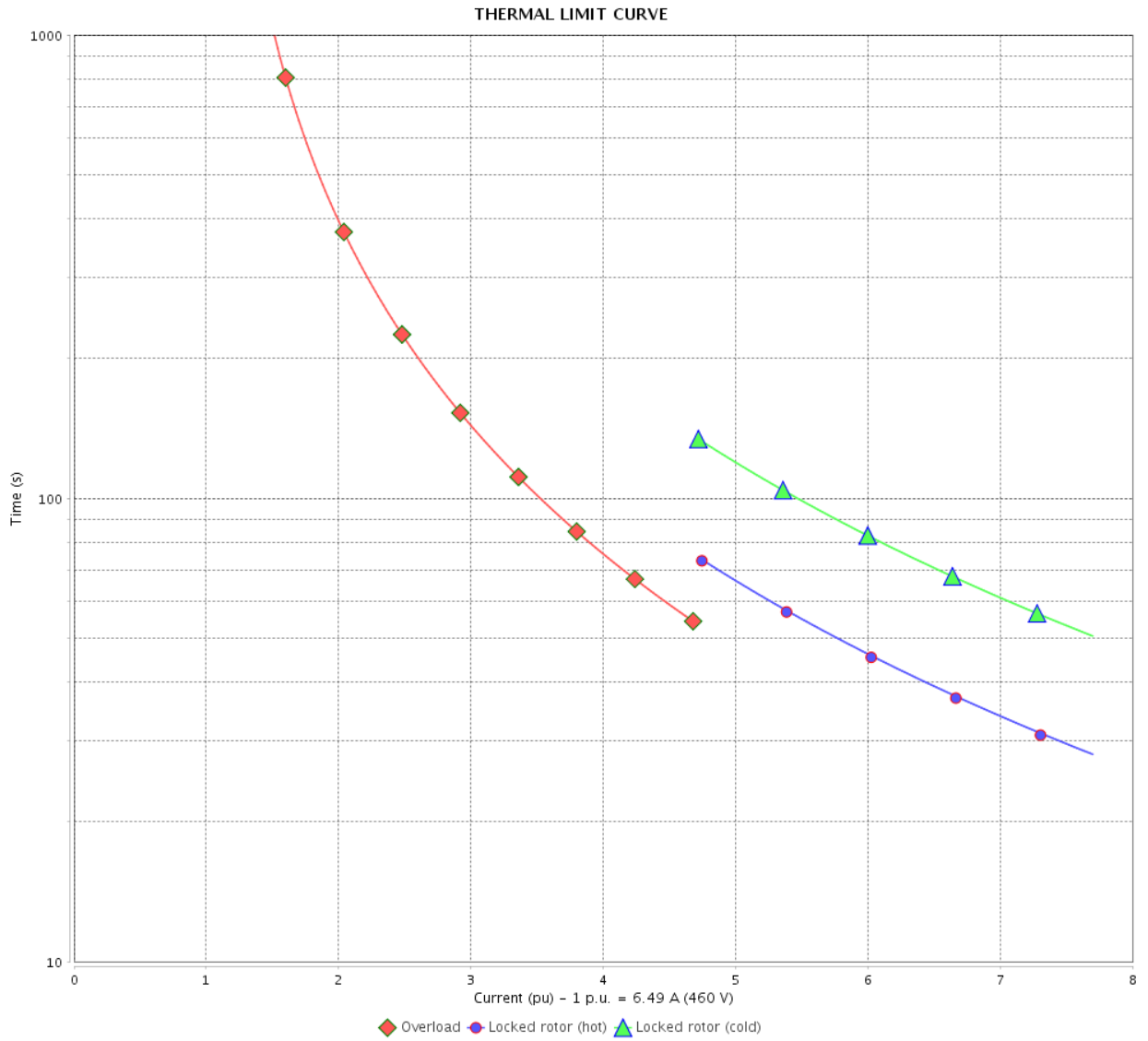
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Three Phase Induction Motor - Squirrel Cage



Customer : _____



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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11433391

Catalog # : 00518ST3QIE184TC-W22

Performance : 380 V 50 Hz 4P IE3

Rated current : 6.42 A
LRC : 7.0
Rated torque : 14.4 ft.lb
Locked rotor torque : 229 %
Breakdown torque : 280 %
Rated speed : 1455 rpm

Moment of inertia (J) : 0.4003 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

Heating constant

Cooling constant

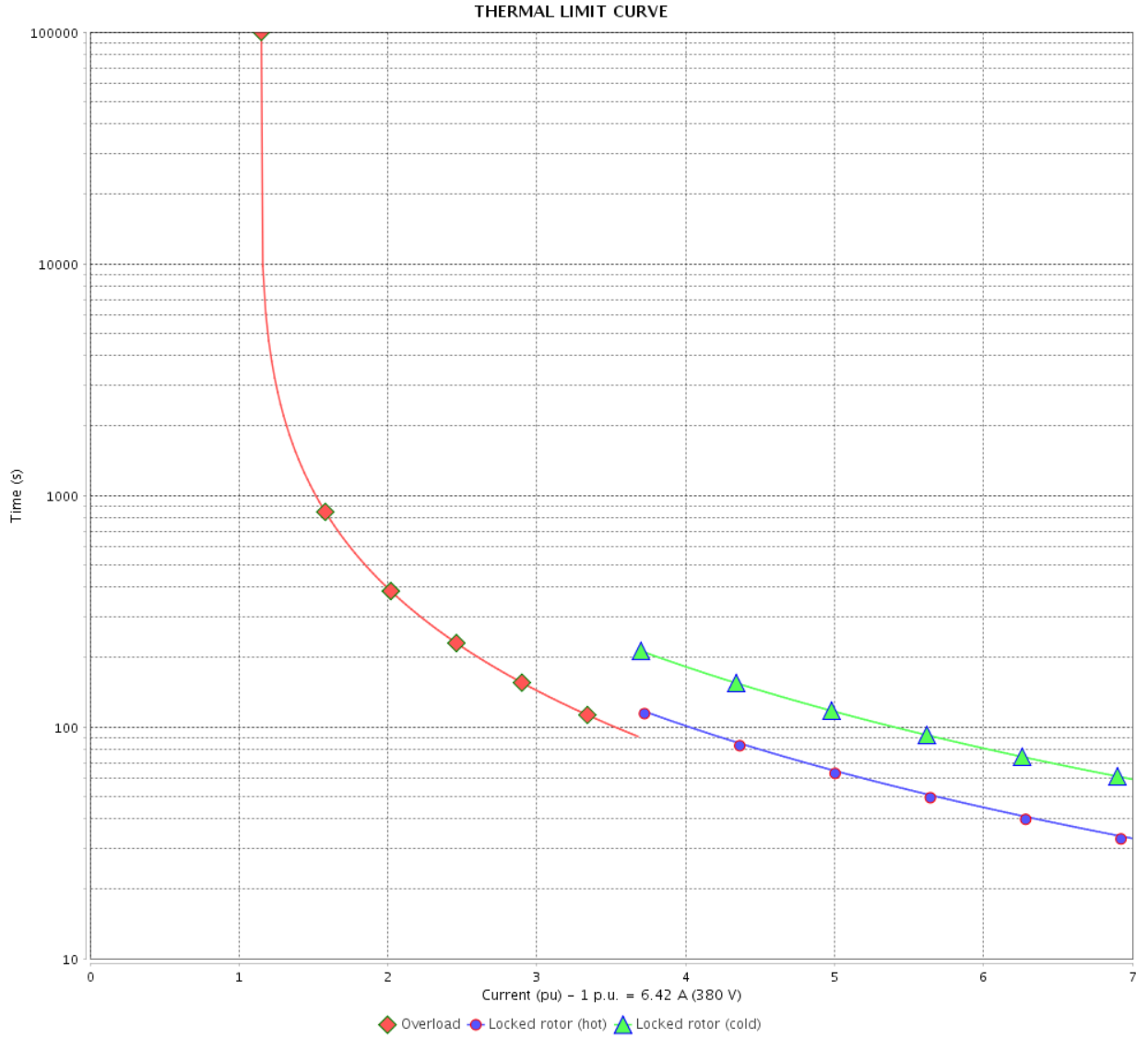
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Three Phase Induction Motor - Squirrel Cage



Customer : _____



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THERMAL LIMIT CURVE



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase
Product code : 11433391
Catalog # : 00518ST3QIE184TC-W22

Performance : 400 V 50 Hz 4P IE3

Rated current	: 6.21 A	Moment of inertia (J)	: 0.4003 sq.ft.lb
LRC	: 7.6	Duty cycle	: Cont.(S1)
Rated torque	: 14.4 ft.lb	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1458 rpm	Design	: B

Heating constant

Cooling constant

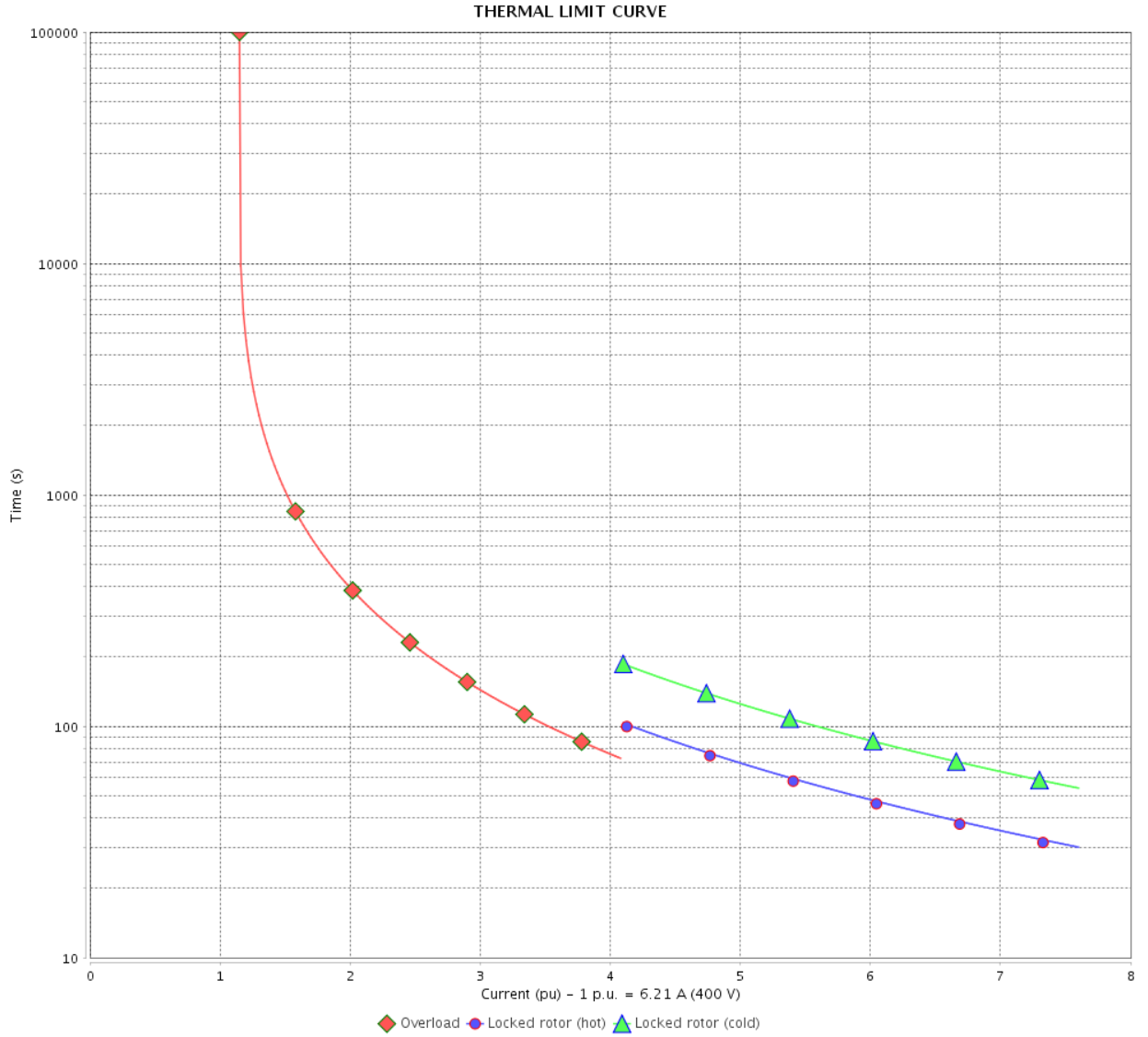
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Catalog # : 00518ST3QIE184TC-W22

Performance : 415 V 50 Hz 4P IE3

Rated current	: 6.23 A	Moment of inertia (J)	: 0.4003 sq.ft.lb
LRC	: 8.0	Duty cycle	: Cont.(S1)
Rated torque	: 14.4 ft.lb	Insulation class	: F
Locked rotor torque	: 290 %	Service factor	: 1.15
Breakdown torque	: 320 %	Temperature rise	: 80 K
Rated speed	: 1462 rpm	Design	: B

Heating constant

Cooling constant

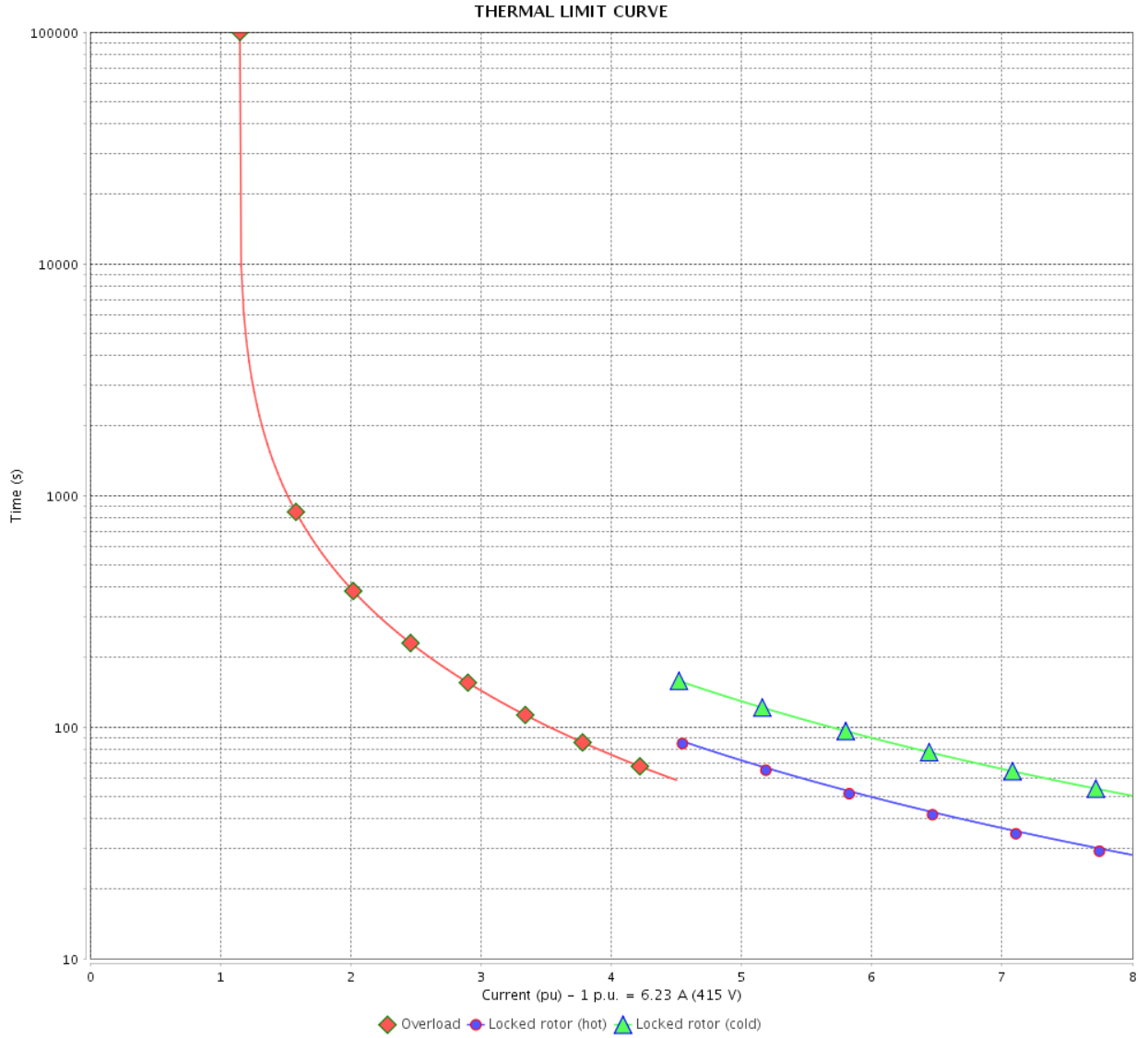
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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THERMAL LIMIT CURVE



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase
 Product code : 11433391
 Catalog # : 00518ST3QIE184TC-W22

Performance : 380 V 50 Hz 4P IE2

Rated current : 7.74 A	Moment of inertia (J) : 0.4003 sq.ft.lb
LRC : 5.8	Duty cycle : Cont.(S1)
Rated torque : 18.3 ft.lb	Insulation class : F
Locked rotor torque : 180 %	Service factor : 1.15
Breakdown torque : 240 %	Temperature rise : 80 K
Rated speed : 1435 rpm	Design : B

Heating constant

Cooling constant

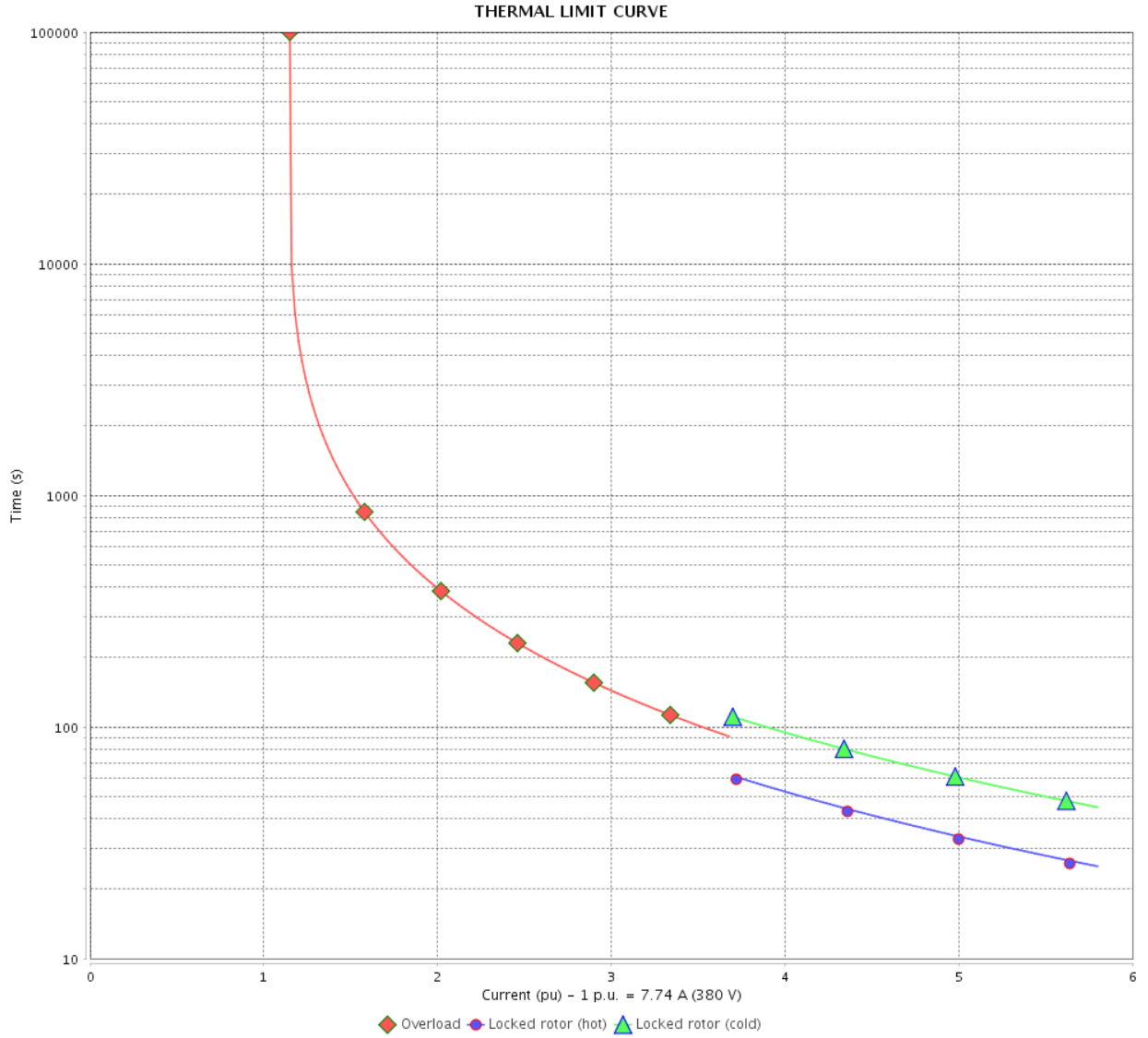
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Three Phase Induction Motor - Squirrel Cage

Customer :

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Product code : 11433391
Catalog # : 00518ST3QIE184TC-W22

Performance : 400 V 50 Hz 4P IE2

Rated current	: 7.44 A	Moment of inertia (J)	: 0.4003 sq.ft.lb
LRC	: 6.4	Duty cycle	: Cont.(S1)
Rated torque	: 18.2 ft.lb	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.15
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 1440 rpm	Design	: B

Heating constant

Cooling constant

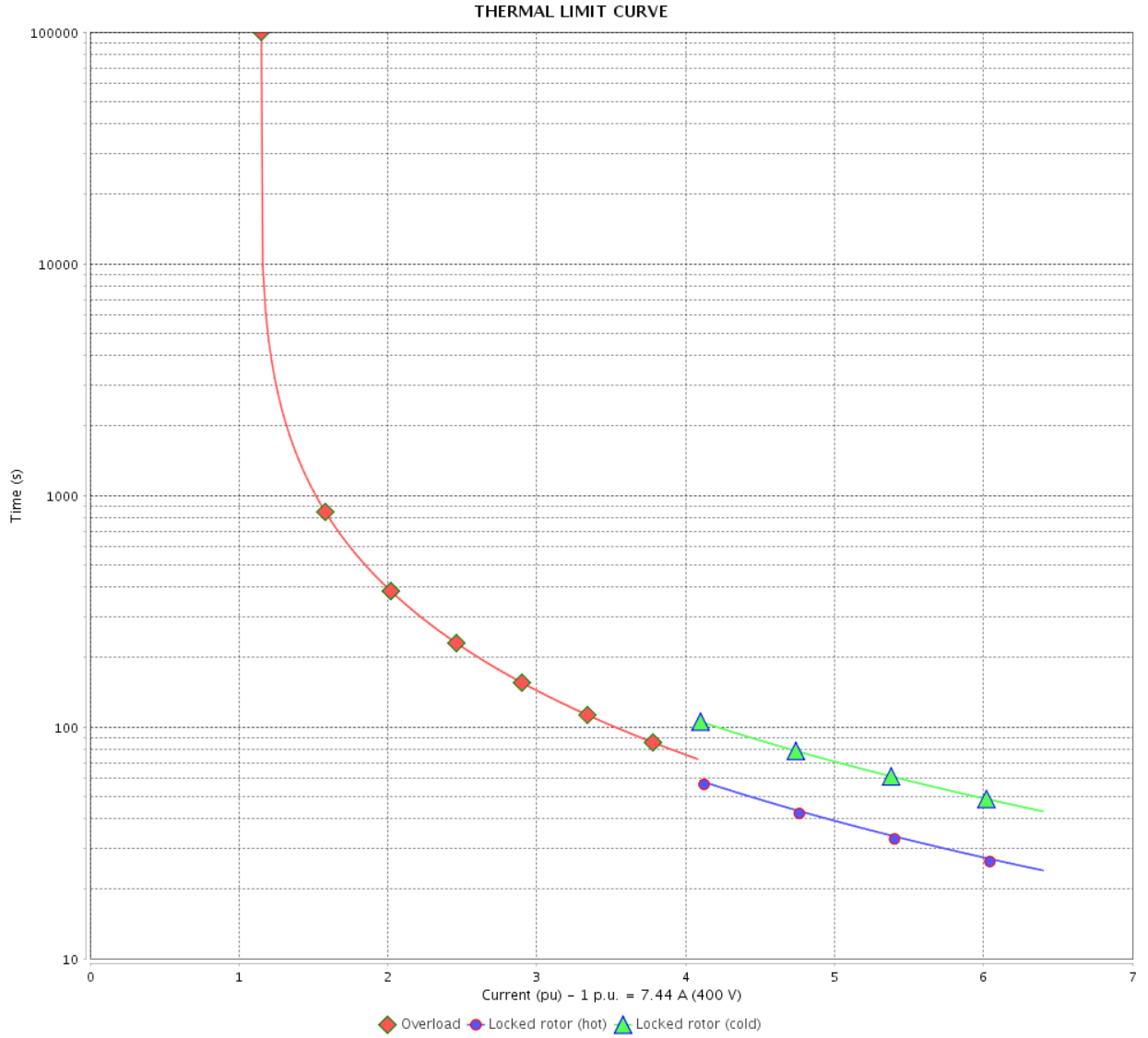
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	12/04/2022		26 / 36	

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 : 11433391
 Catalog # : 00518ST3QIE184TC-W22

Performance : 415 V 50 Hz 4P IE2

Rated current : 7.35 A	Moment of inertia (J) : 0.4003 sq.ft.lb
LRC : 6.9	Duty cycle : Cont.(S1)
Rated torque : 18.1 ft.lb	Insulation class : F
Locked rotor torque : 229 %	Service factor : 1.15
Breakdown torque : 260 %	Temperature rise : 80 K
Rated speed : 1450 rpm	Design : B

Heating constant

Cooling constant

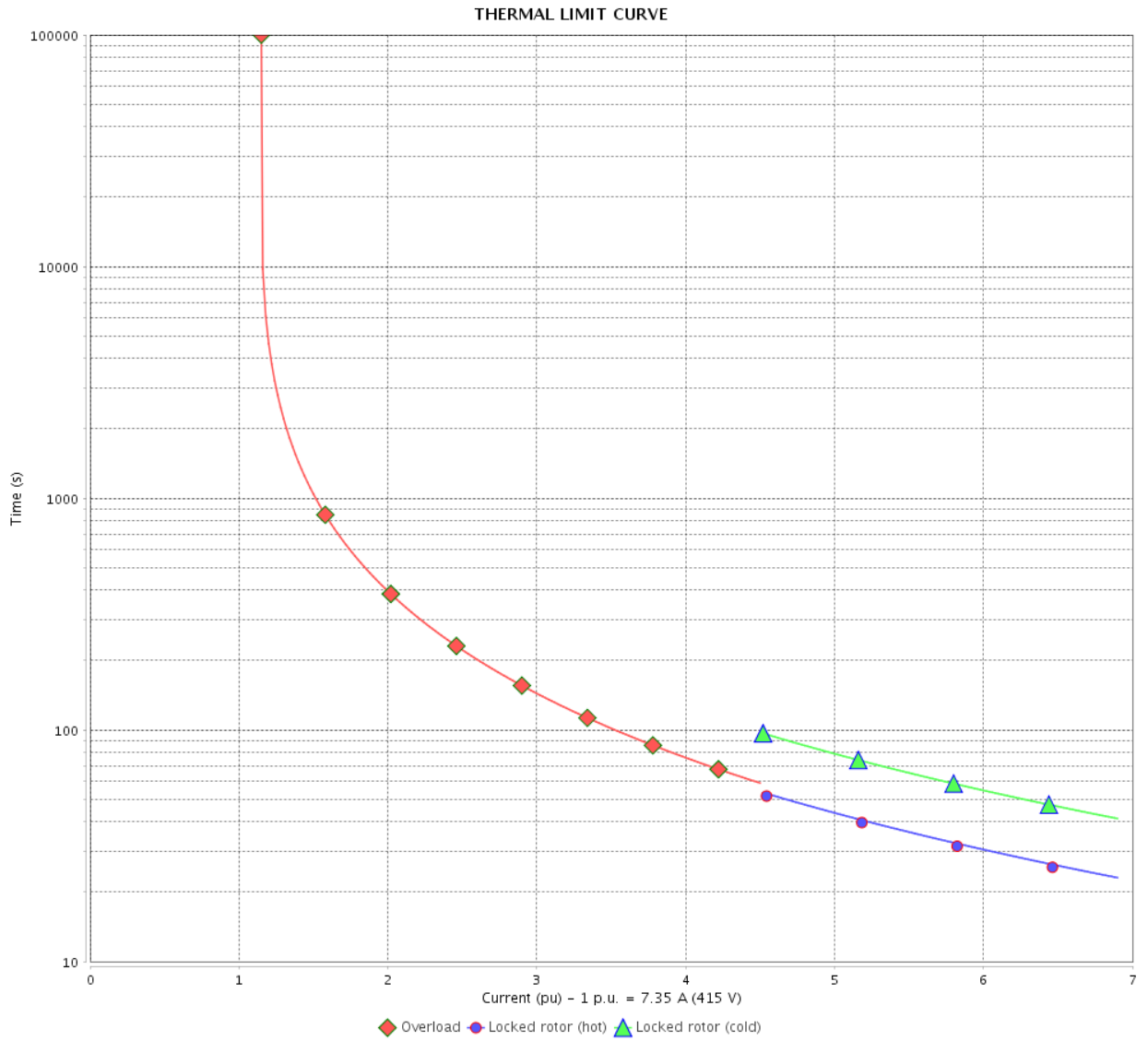
Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 28 / 36	Revision
Checked by				
Date	12/04/2022			

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page		Revision
Checked by		29 / 36		
Date		12/04/2022		

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



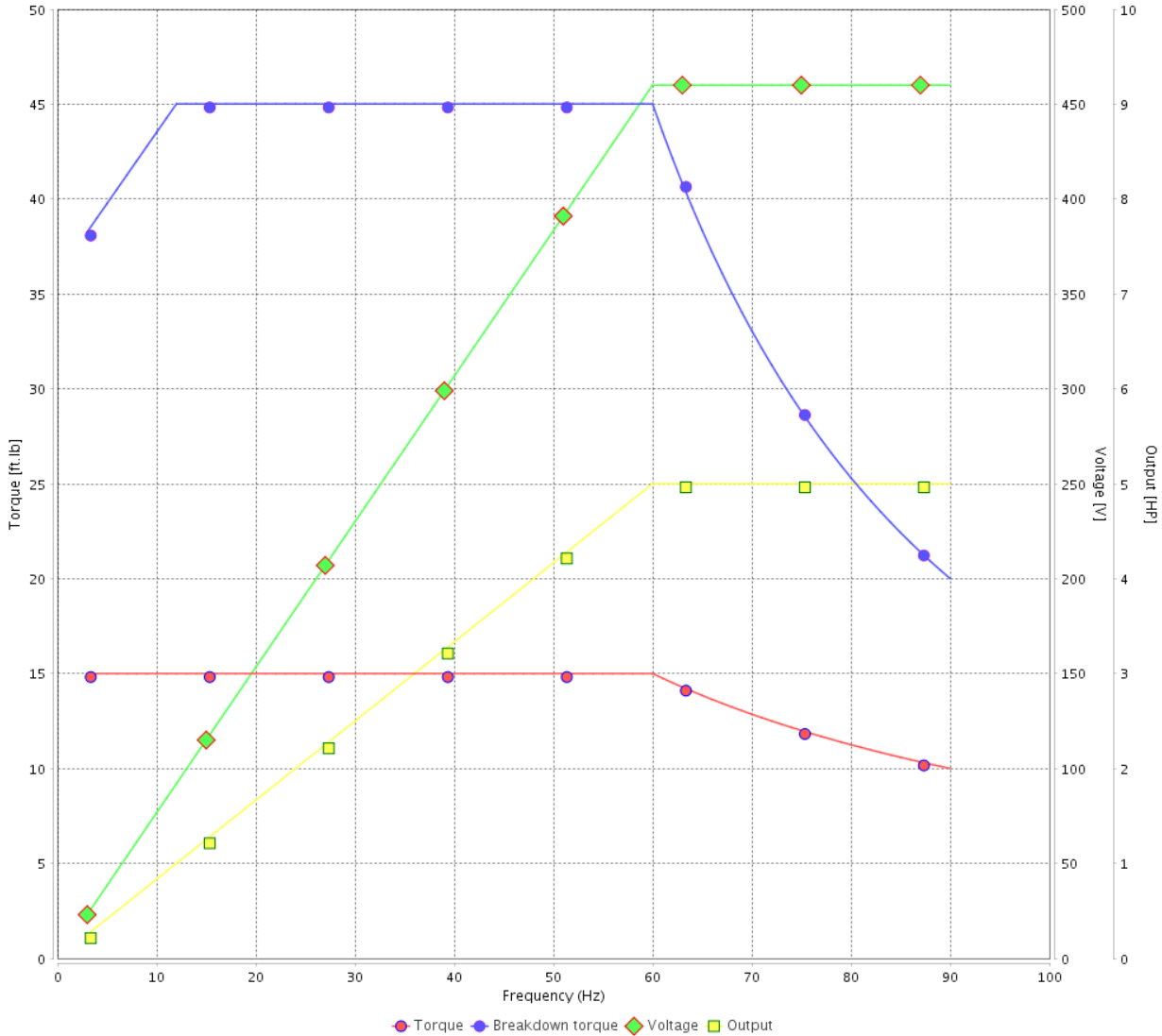
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11433391

Catalog # : 00518ST3QIE184TC-W22

VFD OPERATION CURVE



Performance : 460 V 60 Hz 4P

Rated current : 6.49 A
 LRC : 7.7
 Rated torque : 15.0 ft.lb
 Locked rotor torque : 229 %
 Breakdown torque : 300 %
 Rated speed : 1750 rpm

Moment of inertia (J) : 0.4003 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 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

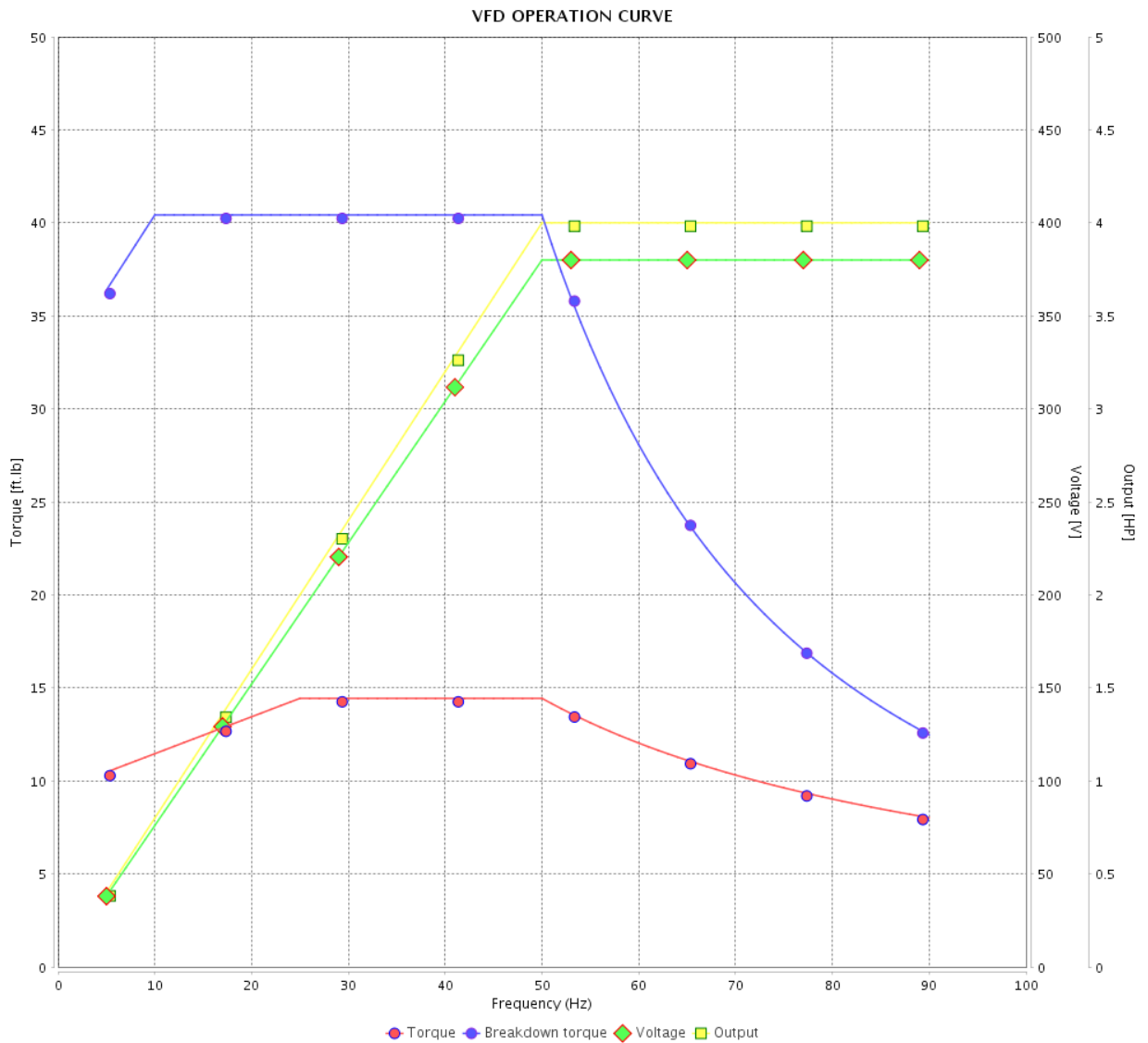


Customer : _____

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11433391

Catalog # : 00518ST3QIE184TC-W22



Performance : 380 V 50 Hz 4P IE3

Rated current : 6.42 A
 LRC : 7.0
 Rated torque : 14.4 ft.lb
 Locked rotor torque : 229 %
 Breakdown torque : 280 %
 Rated speed : 1455 rpm

Moment of inertia (J) : 0.4003 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 31 / 36
Checked by				
Date	12/04/2022			
				Revision

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



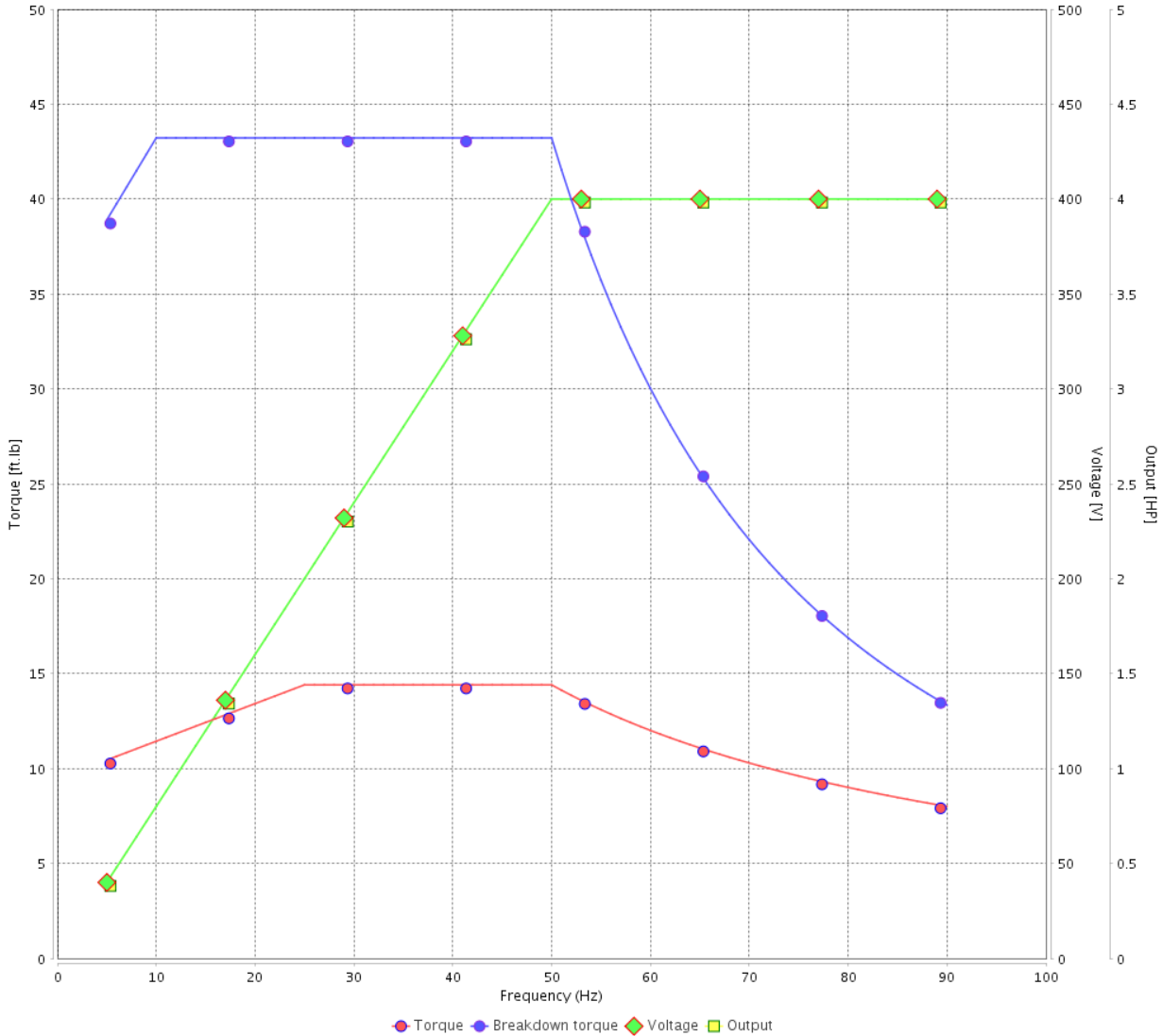
Customer : _____

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11433391

Catalog # : 00518ST3QIE184TC-W22

VFD OPERATION CURVE



Performance : 400 V 50 Hz 4P IE3

Rated current : 6.21 A
 LRC : 7.6
 Rated torque : 14.4 ft.lb
 Locked rotor torque : 260 %
 Breakdown torque : 300 %
 Rated speed : 1458 rpm

Moment of inertia (J) : 0.4003 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	12/04/2022			

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

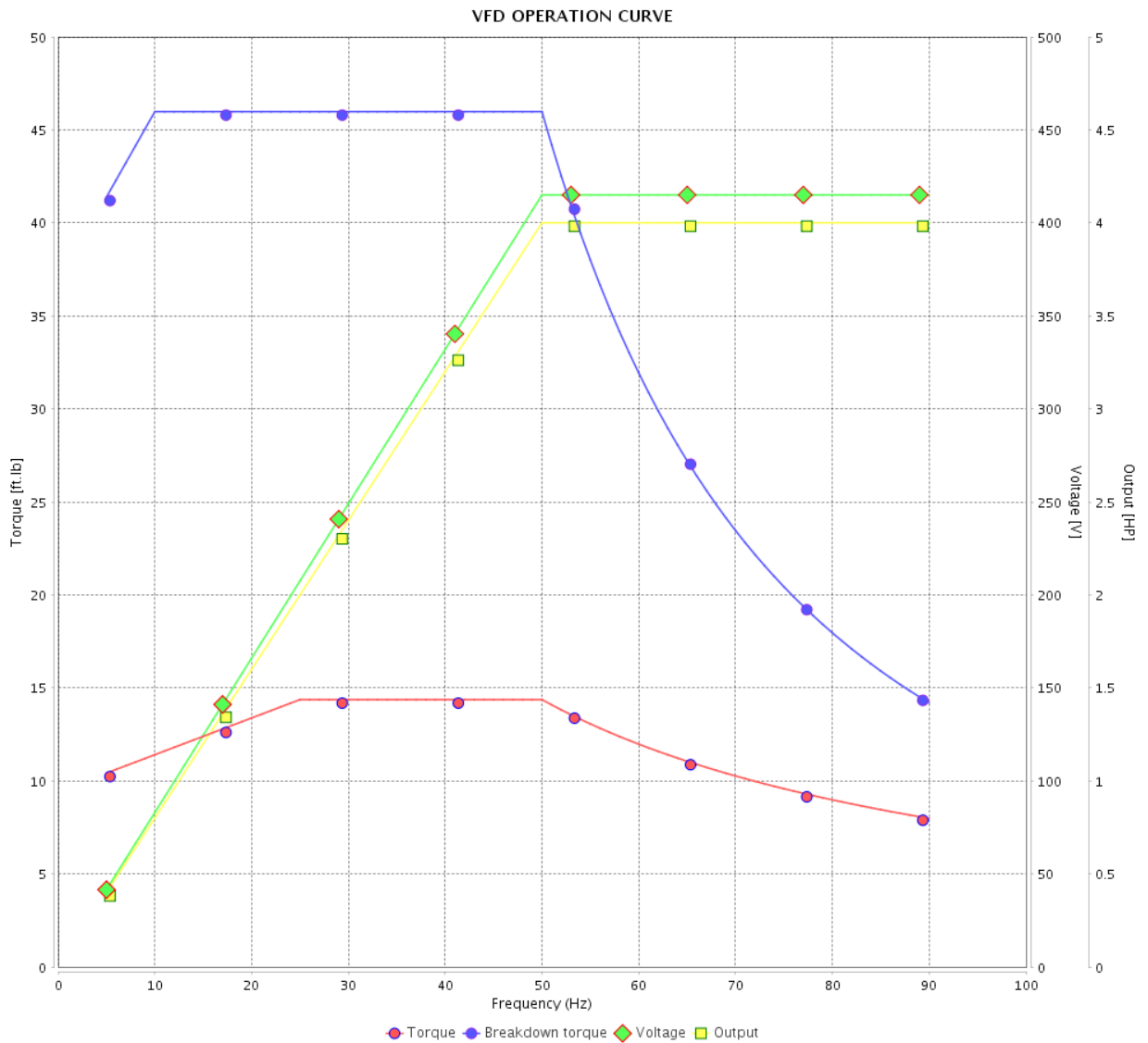


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11433391

Catalog # : 00518ST3QIE184TC-W22



Performance : 415 V 50 Hz 4P IE3

Rated current : 6.23 A
 LRC : 8.0
 Rated torque : 14.4 ft.lb
 Locked rotor torque : 290 %
 Breakdown torque : 320 %
 Rated speed : 1462 rpm

Moment of inertia (J) : 0.4003 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
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Date				
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



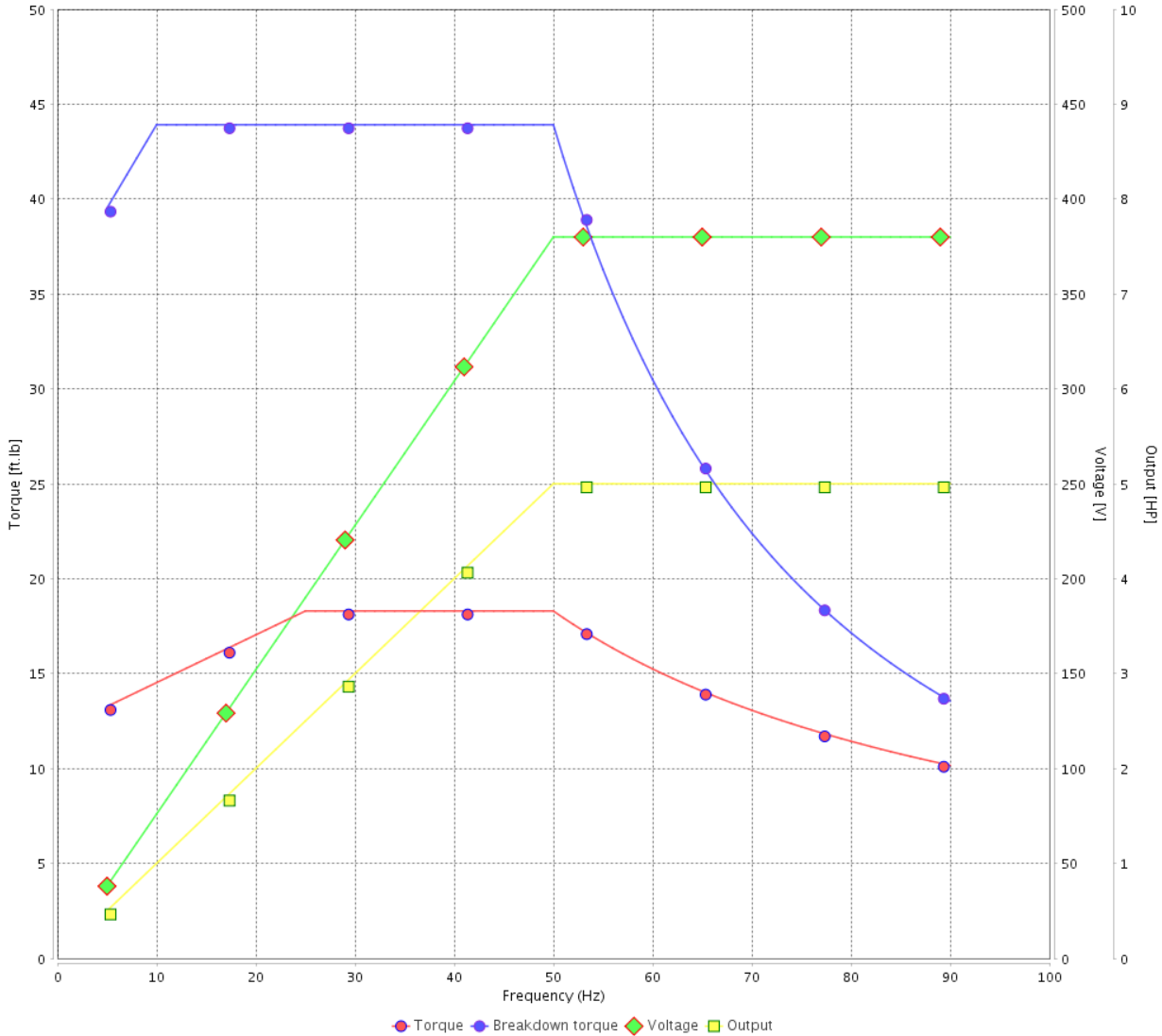
Customer : _____

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11433391

Catalog # : 00518ST3QIE184TC-W22

VFD OPERATION CURVE



Performance : 380 V 50 Hz 4P IE2

Rated current : 7.74 A
 LRC : 5.8
 Rated torque : 18.3 ft.lb
 Locked rotor torque : 180 %
 Breakdown torque : 240 %
 Rated speed : 1435 rpm

Moment of inertia (J) : 0.4003 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 34 / 36	Revision
Checked by				
Date	12/04/2022			

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

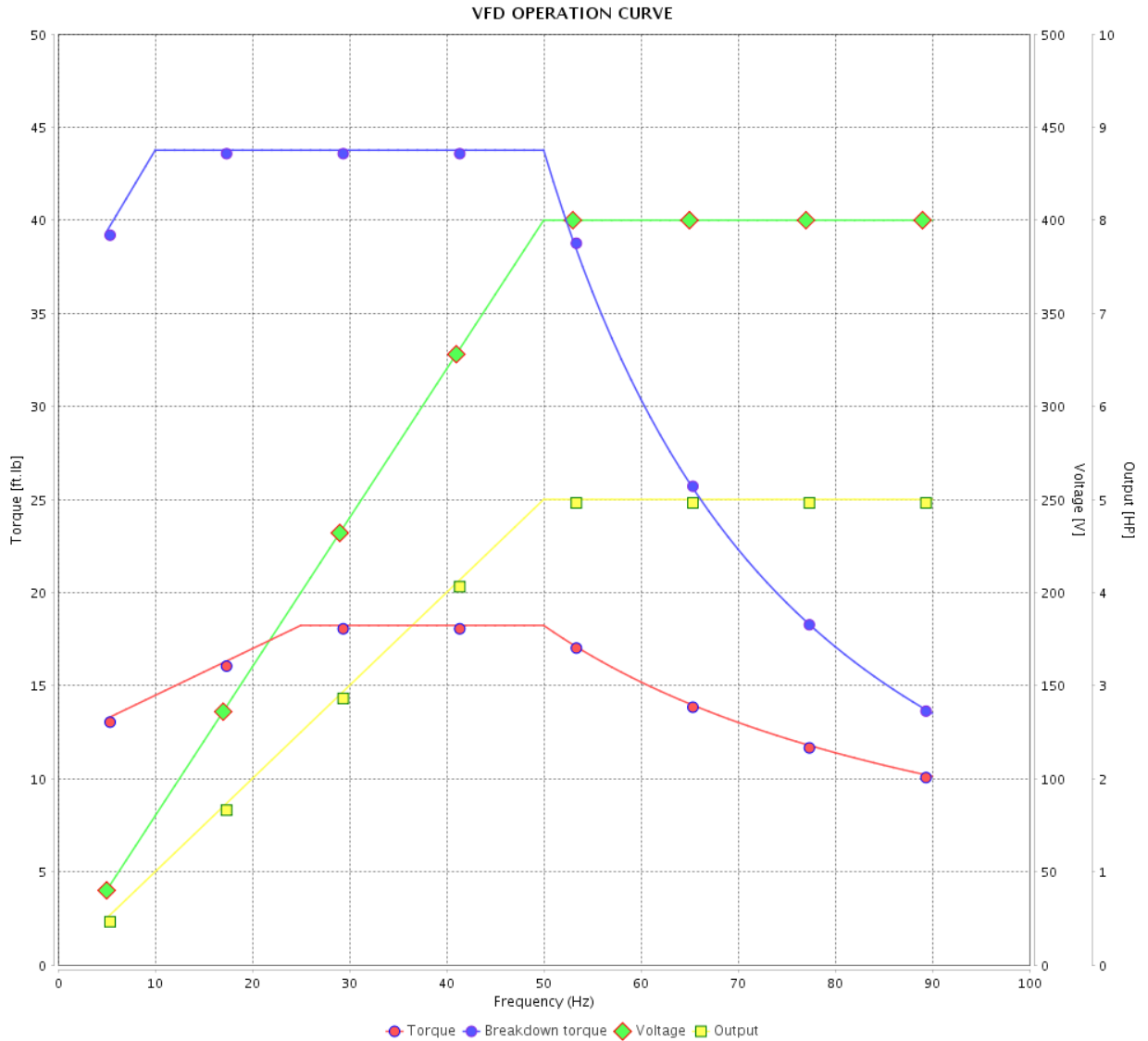


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11433391

Catalog # : 00518ST3QIE184TC-W22



Performance : 400 V 50 Hz 4P IE2

Rated current : 7.44 A
 LRC : 6.4
 Rated torque : 18.2 ft.lb
 Locked rotor torque : 210 %
 Breakdown torque : 240 %
 Rated speed : 1440 rpm

Moment of inertia (J) : 0.4003 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				
			35 / 36	

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



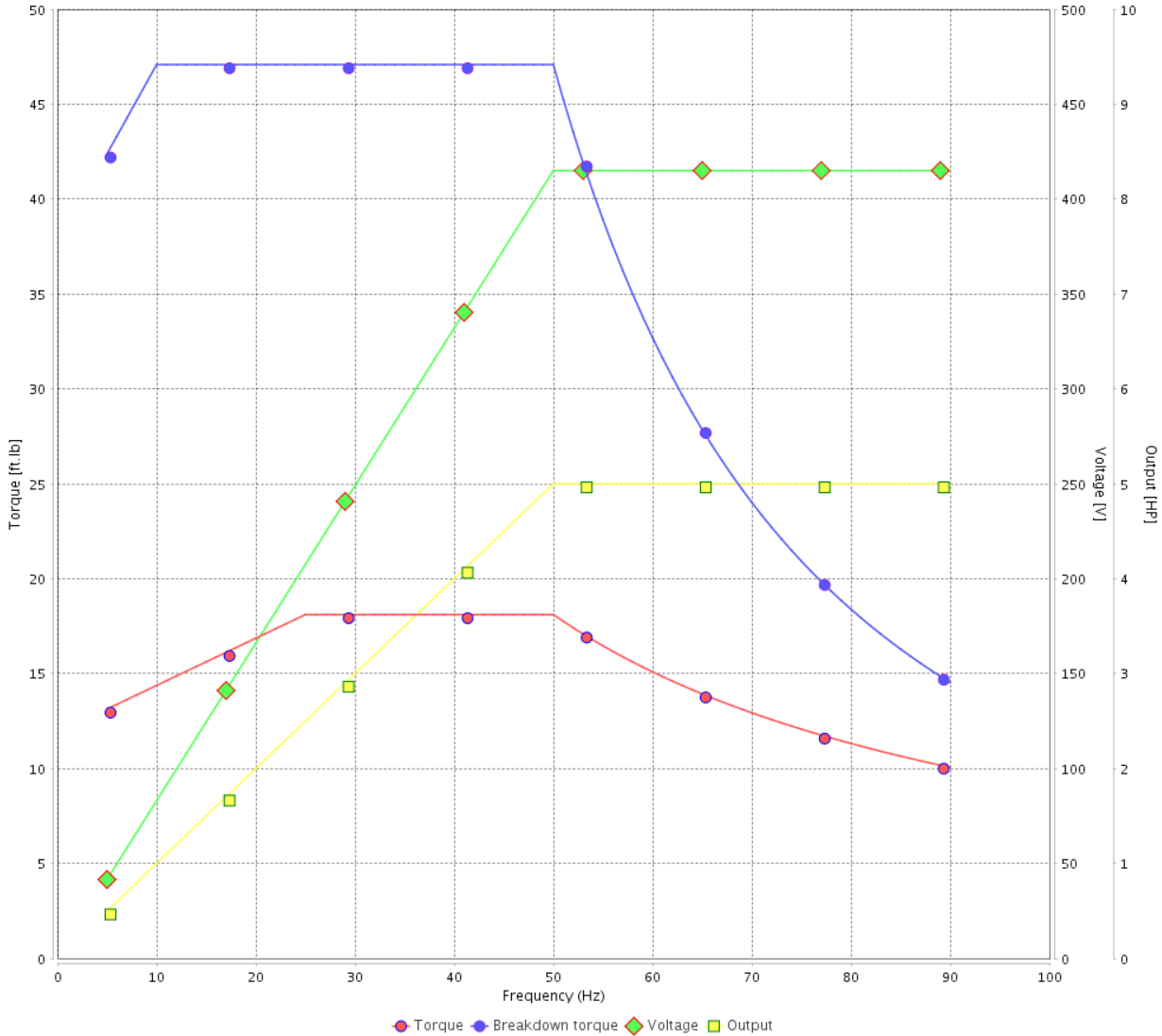
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11433391

Catalog # : 00518ST3QIE184TC-W22

VFD OPERATION CURVE



Performance : 415 V 50 Hz 4P IE2

Rated current : 7.35 A
 LRC : 6.9
 Rated torque : 18.1 ft.lb
 Locked rotor torque : 229 %
 Breakdown torque : 260 %
 Rated speed : 1450 rpm

Moment of inertia (J) : 0.4003 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

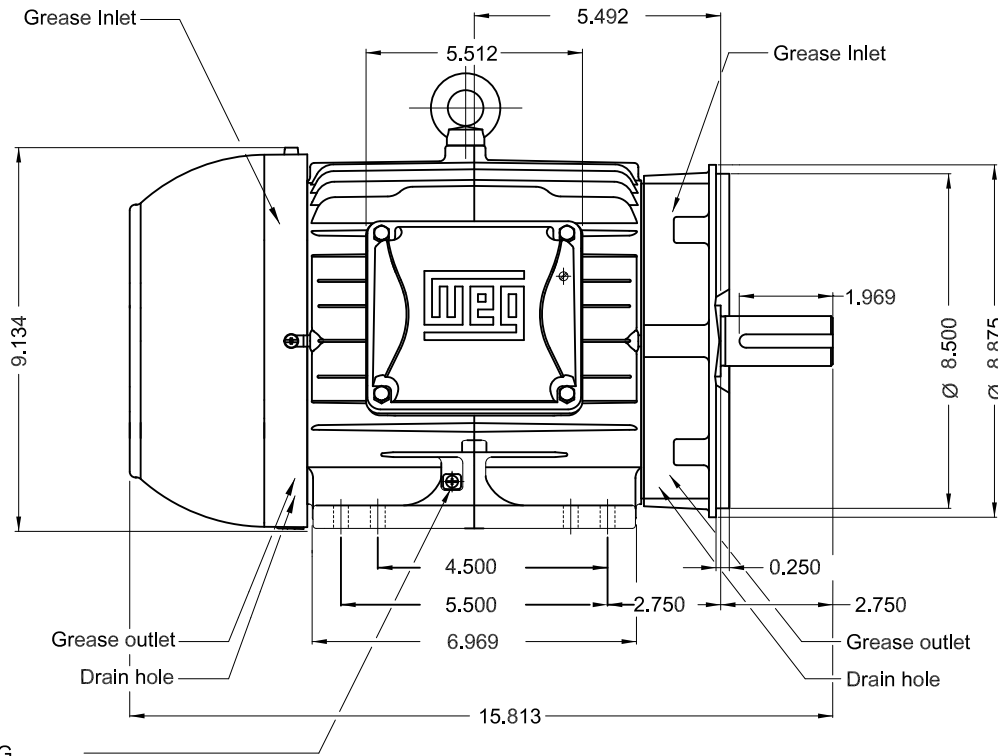
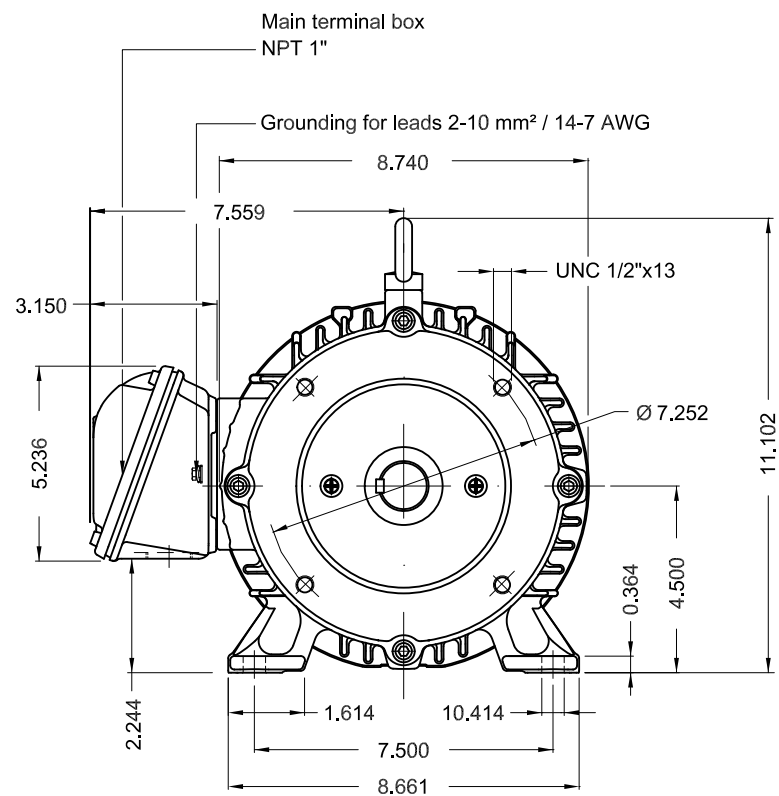
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Performed by			Page	Revision
Checked by				
Date				
			36 / 36	

1 2 3 4 5 6

A

B

C

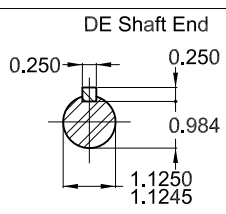


Grounding for leads 2-10 mm² / 14-7 AWG

D

E

Color RAL 5009
 Painting plan 202E
 Mounting B34R(D)



5 HP 04 Poles 60 Hz A

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	PIRWBUSER	THREE PH. MOTOR IEEE 841 W22 PREM. EFF.					
CHECKED		FRAME 182/4TC IP55 TEFC					
RELEASED							
REL DT.	WMO	Jaragua do Sul	Product Engineering	SHEET	1 / 1		

PREVIEW
WDD



Dimensions in inches XME A3

MADE IN BRAZIL
11433391



NEMA
Premium



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 - T5
For use on PWM: Gr. A, B, C, D, F and G,
VT 1000:1, CT 20:1, 1.00SF - T4A

MODEL 00518ST3QIE184TC-W22

Inverter Duty Motor
Severe Duty

IEEE
841-2009



FOR SAFE AREA
Mod. TE1BFOXON
CC029A

PH3 60Hz Fr. 182/4TC 1000m.a.s.l. IP55 TEFC 117lb

V 460

A 6.49

HP 5.0

kW 3.7

SF 1.25

SFA 8.11

RPM 1750

PF 0.80

AMB 40°C

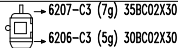
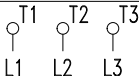
INS cl. F DT80K

NEMA NOM EFF 89.5%

DUTY CONT.

DES B Code J

GUARANT. EFF 87.5%



MOBIL POLYREX EM (20000h)

