

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

| | | | | | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-----------------------------|-------------------------|--------------------------------------------------------------------------------------------------------------------------|-------------------------|-------------------------|-------------------------|
| Customer : | | | | | | | |
| Product line | : NEMA Premium Efficiency Three-Phase | Product code : | 11626903 | | | | |
| | | Catalog # : | 15012ET3E447T-W22 | | | | |
| Frame | : 445/7T | 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 | : 2284 lb | | | | |
| Protection degree | : IP55 | Moment of inertia (J) | : 134 sq.ft.lb | | | | |
| Design | : B | | | | | | |
| Output [HP] | 150 | 125 | 125 | 125 | 150 | 150 | 150 |
| Poles | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| Frequency [Hz] | 60 | 50 | 50 | 50 | 50 | 50 | 50 |
| Rated voltage [V] | 230/460 | 380 | 400 | 415 | 380 | 400 | 415 |
| Rated current [A] | 352/176 | 174 | 167 | 165 | 211 | 201 | 196 |
| L. R. Amperes [A] | 2182/1091 | 1044 | 1086 | 1155 | 1055 | 1106 | 1176 |
| LRC [A] | 6.2x(Code G) | 6.0x(Code F) | 6.5x(Code G) | 7.0x(Code H) | 5.0x(Code E) | 5.5x(Code F) | 6.0x(Code G) |
| No load current [A] | 140/70.0 | 70.0 | 74.0 | 78.0 | 70.0 | 74.0 | 78.0 |
| Rated speed [RPM] | 1187 | 987 | 989 | 990 | 982 | 985 | 986 |
| Slip [%] | 1.08 | 1.30 | 1.10 | 1.00 | 1.80 | 1.50 | 1.40 |
| Rated torque [ft.lb] | 664 | 665 | 664 | 663 | 802 | 800 | 799 |
| Locked rotor torque [%] | 240 | 240 | 270 | 290 | 190 | 220 | 240 |
| Breakdown torque [%] | 250 | 240 | 270 | 290 | 200 | 229 | 250 |
| Service factor | 1.15 | 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 | 36s (cold) 20s (hot) | 27s (cold) 15s (hot) | 27s (cold) 15s (hot) | 27s (cold) 15s (hot) | 27s (cold) 15s (hot) | 27s (cold) 15s (hot) | 27s (cold) 15s (hot) |
| Noise level ² | 69.0 dB(A) | | | | | | |
| Efficiency (%) | 25% | | | | | | |
| | 50% | 95.0 | 94.8 | 94.5 | 94.5 | 95.0 | 95.0 |
| | 75% | 95.4 | 95.1 | 95.1 | 95.1 | 95.0 | 95.0 |
| | 100% | 95.8 | 94.9 | 95.1 | 95.1 | 94.5 | 95.0 |
| Power Factor | 25% | | | | | | |
| | 50% | 0.67 | 0.67 | 0.64 | 0.60 | 0.73 | 0.70 |
| | 75% | 0.78 | 0.79 | 0.76 | 0.74 | 0.82 | 0.80 |
| | 100% | 0.82 | 0.83 | 0.82 | 0.80 | 0.84 | 0.83 |
| Bearing type | : Drive end : 6319 C3 | Non drive end : 6316 C3 | Foundation loads | | | | |
| Sealing | : WSeal | WSeal | Max. traction | : 4182 lb | | | |
| Lubrication interval | : 13000 h | 16000 h | Max. compression | : 6466 lb | | | |
| Lubricant amount | : 45 g | 34 g | | | | | |
| Lubricant type | : Mobil Polyrex EM | | | | | | |
| Notes USABLE @208V 389A SF 1.00 SFA 389A | | | | | | | |
| 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. | | | |
| Rev. | Changes Summary | | | Performed | Checked | Date | |
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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



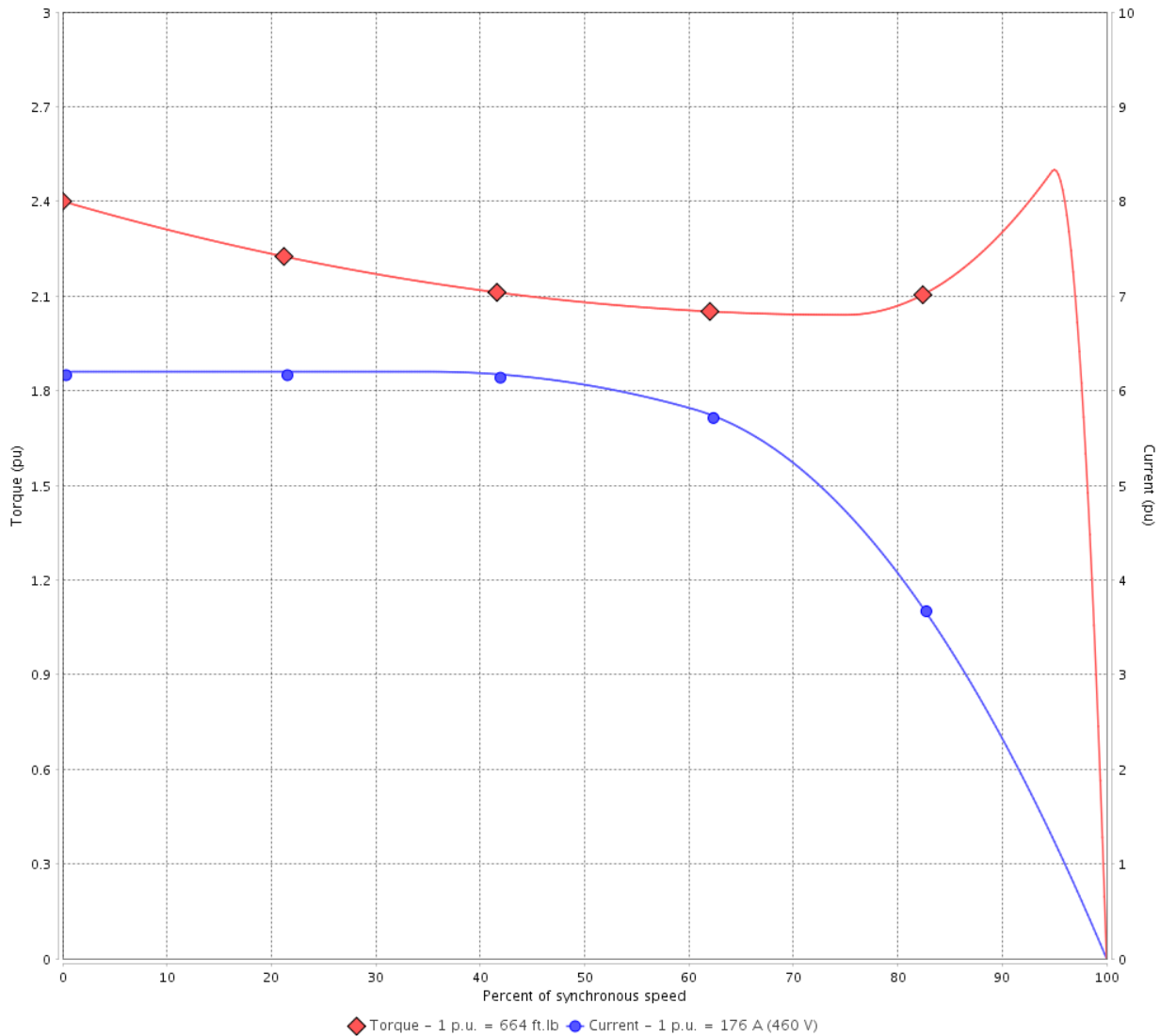
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11626903

Catalog # : 15012ET3E447T-W22

TORQUE AND CURRENT VS SPEED CURVE



Performance : 230/460 V 60 Hz 6P

Rated current : 352/176 A
 LRC : 6.2
 Rated torque : 664 ft.lb
 Locked rotor torque : 240 %
 Breakdown torque : 250 %
 Rated speed : 1187 rpm

Moment of inertia (J) : 134 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

Locked rotor time : 36s (cold) 20s (hot)

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TORQUE AND CURRENT VS SPEED CURVE



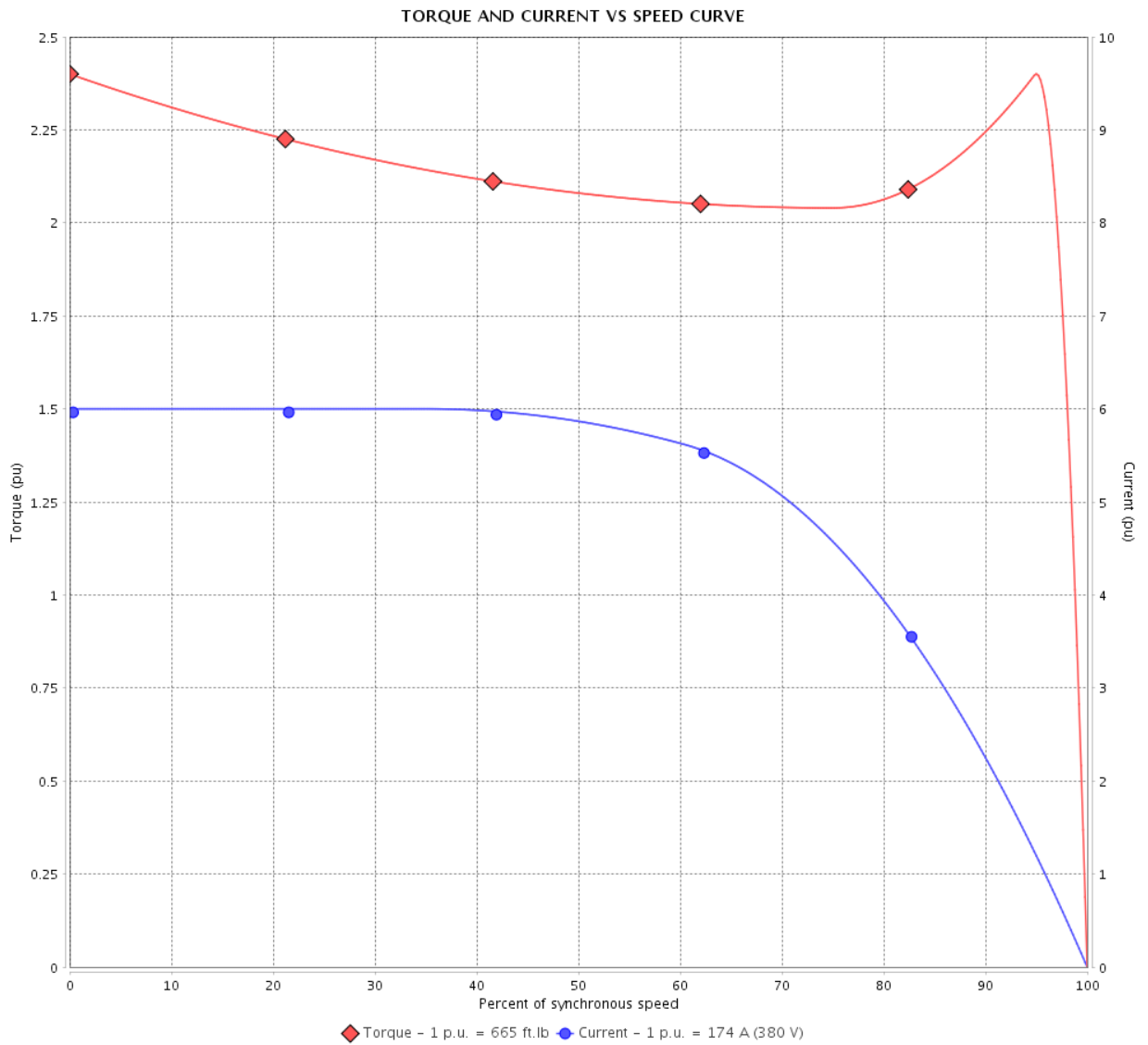
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Customer :

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Performance : 380 V 50 Hz 6P IE3

| | | | |
|---------------------|-------------|-----------------------|----------------|
| Rated current | : 174 A | Moment of inertia (J) | : 134 sq.ft.lb |
| LRC | : 6.0 | Duty cycle | : Cont.(S1) |
| Rated torque | : 665 ft.lb | Insulation class | : F |
| Locked rotor torque | : 240 % | Service factor | : 1.00 |
| Breakdown torque | : 240 % | Temperature rise | : 80 K |
| Rated speed | : 987 rpm | Design | : B |

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

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



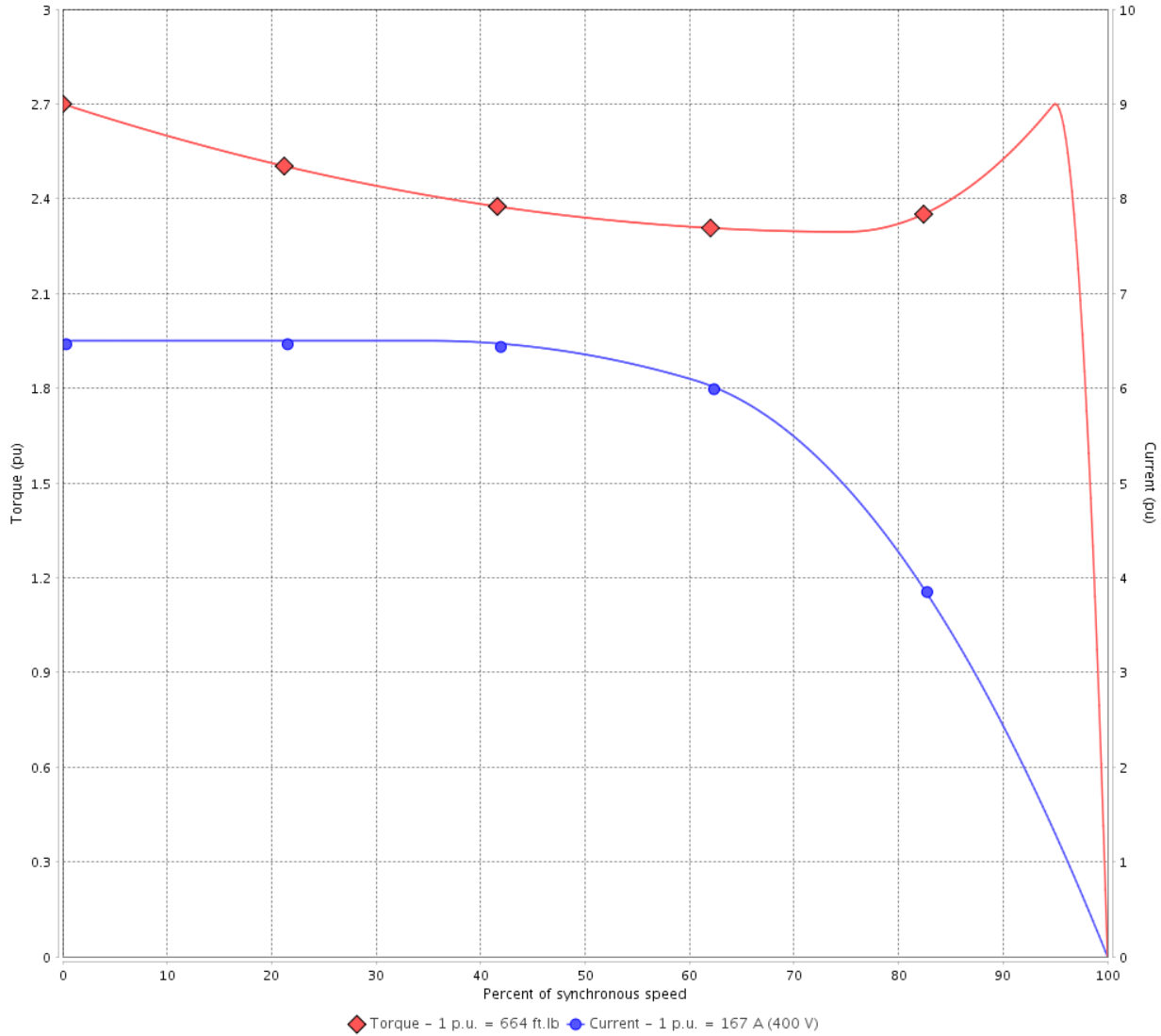
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TORQUE AND CURRENT VS SPEED CURVE



Performance : 400 V 50 Hz 6P IE3

| | | | |
|---------------------|-------------|-----------------------|----------------|
| Rated current | : 167 A | Moment of inertia (J) | : 134 sq.ft.lb |
| LRC | : 6.5 | Duty cycle | : Cont.(S1) |
| Rated torque | : 664 ft.lb | Insulation class | : F |
| Locked rotor torque | : 270 % | Service factor | : 1.00 |
| Breakdown torque | : 270 % | Temperature rise | : 80 K |
| Rated speed | : 989 rpm | Design | : B |

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

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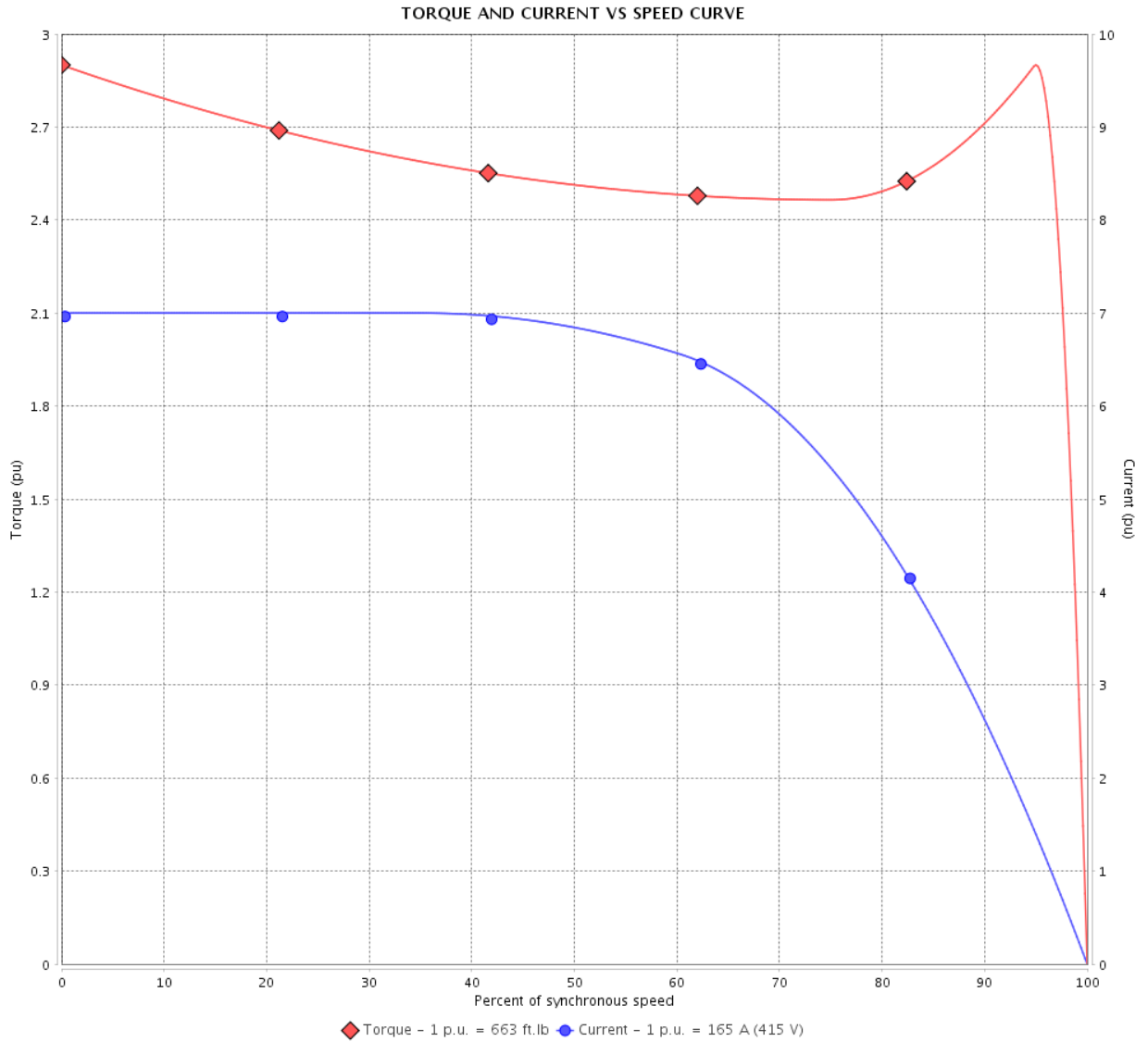
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Performance : 415 V 50 Hz 6P IE3

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|---------------------|-------------|-----------------------|----------------|
| Rated current | : 165 A | Moment of inertia (J) | : 134 sq.ft.lb |
| LRC | : 7.0 | Duty cycle | : Cont.(S1) |
| Rated torque | : 663 ft.lb | Insulation class | : F |
| Locked rotor torque | : 290 % | Service factor | : 1.00 |
| Breakdown torque | : 290 % | Temperature rise | : 80 K |
| Rated speed | : 990 rpm | Design | : B |

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

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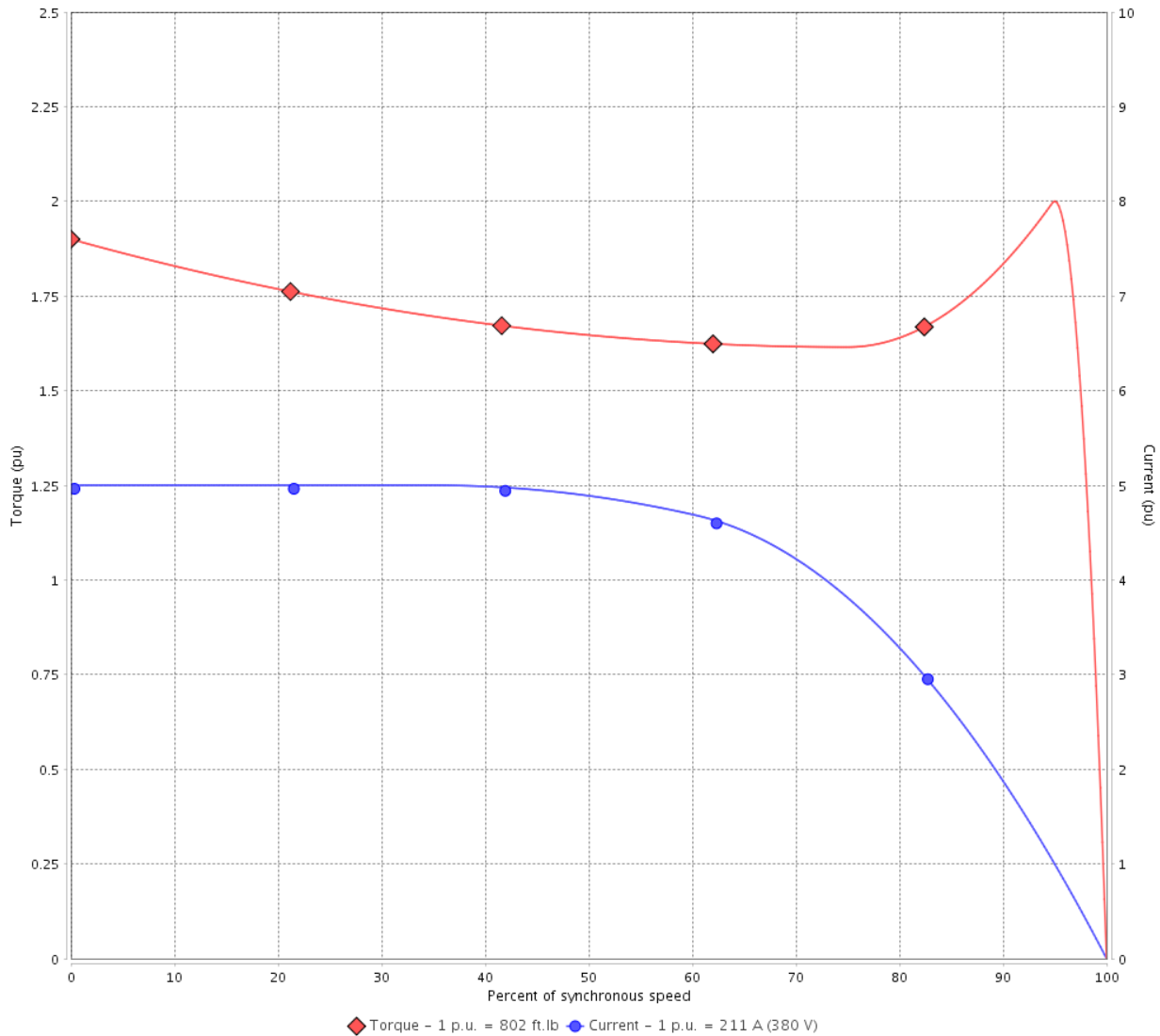
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TORQUE AND CURRENT VS SPEED CURVE



Performance : 380 V 50 Hz 6P IE2

| | | | |
|---------------------|-------------|-----------------------|----------------|
| Rated current | : 211 A | Moment of inertia (J) | : 134 sq.ft.lb |
| LRC | : 5.0 | Duty cycle | : Cont.(S1) |
| Rated torque | : 802 ft.lb | Insulation class | : F |
| Locked rotor torque | : 190 % | Service factor | : 1.00 |
| Breakdown torque | : 200 % | Temperature rise | : 105 K |
| Rated speed | : 982 rpm | Design | : B |

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

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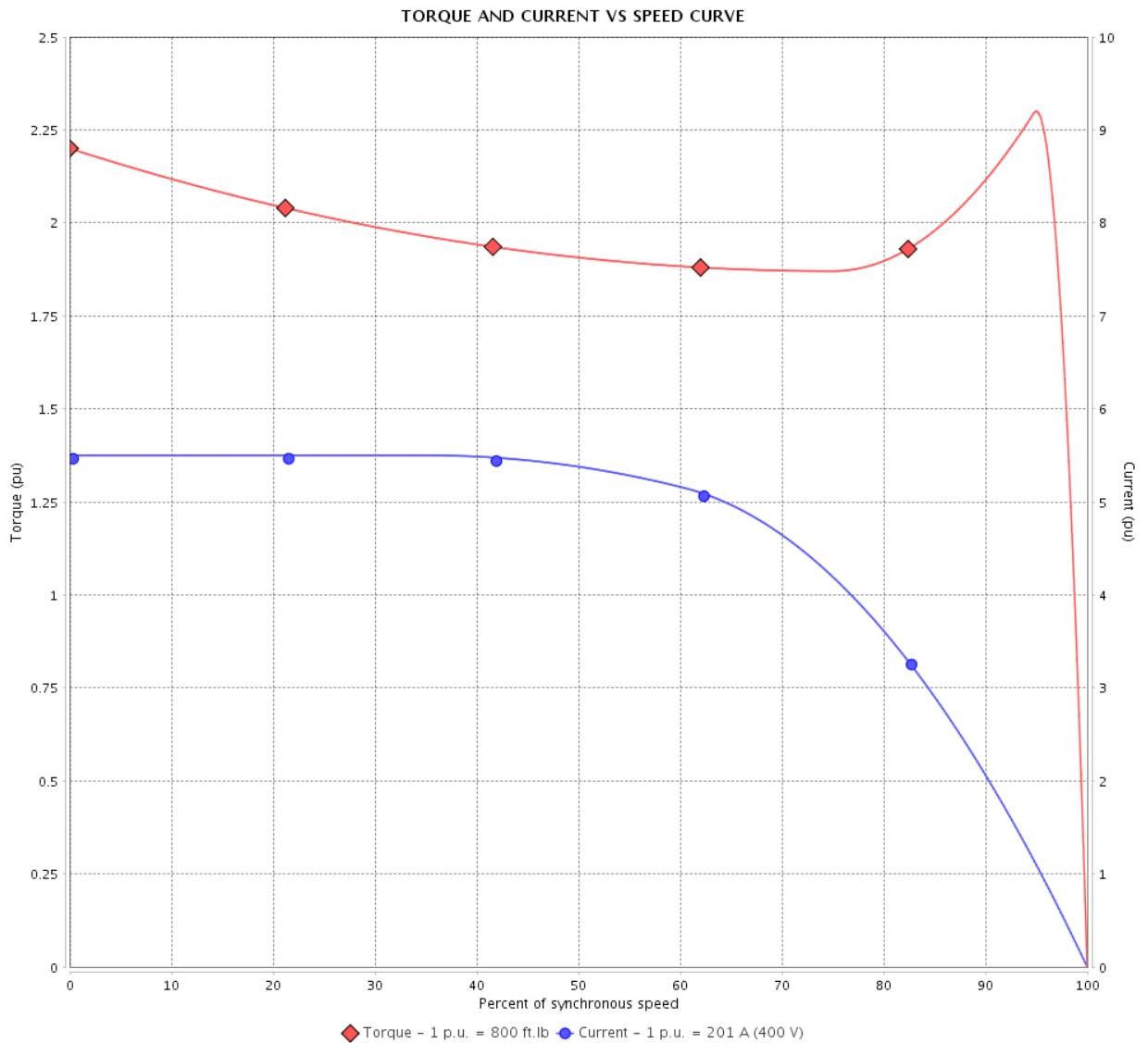
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Performance : 400 V 50 Hz 6P IE2

| | | | |
|---------------------|-------------|-----------------------|----------------|
| Rated current | : 201 A | Moment of inertia (J) | : 134 sq.ft.lb |
| LRC | : 5.5 | Duty cycle | : Cont.(S1) |
| Rated torque | : 800 ft.lb | Insulation class | : F |
| Locked rotor torque | : 220 % | Service factor | : 1.00 |
| Breakdown torque | : 229 % | Temperature rise | : 105 K |
| Rated speed | : 985 rpm | Design | : B |

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

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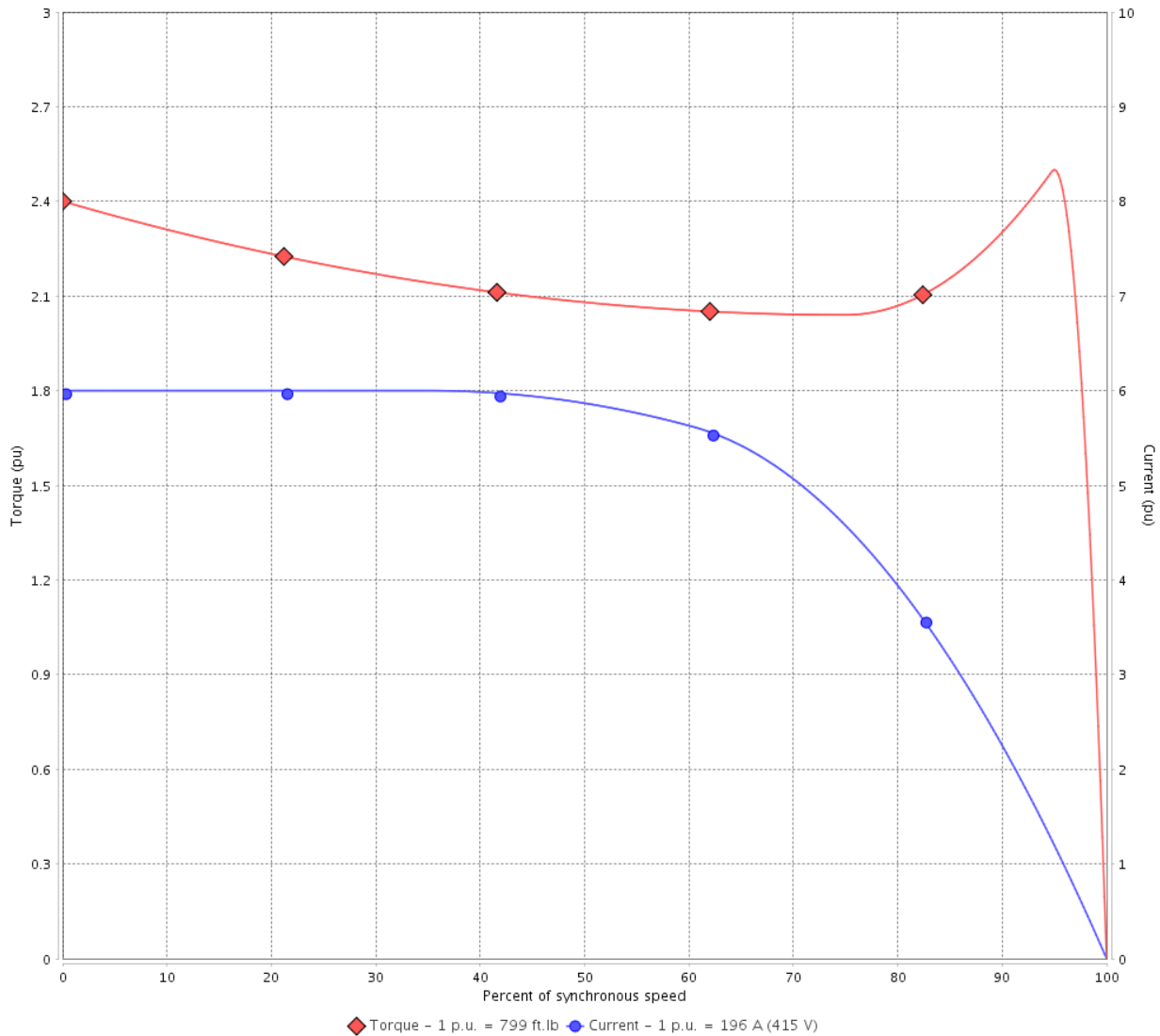
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Performance : 415 V 50 Hz 6P IE2

| | | | |
|---------------------|-------------|-----------------------|----------------|
| Rated current | : 196 A | Moment of inertia (J) | : 134 sq.ft.lb |
| LRC | : 6.0 | Duty cycle | : Cont.(S1) |
| Rated torque | : 799 ft.lb | Insulation class | : F |
| Locked rotor torque | : 240 % | Service factor | : 1.00 |
| Breakdown torque | : 250 % | Temperature rise | : 105 K |
| Rated speed | : 986 rpm | Design | : B |

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

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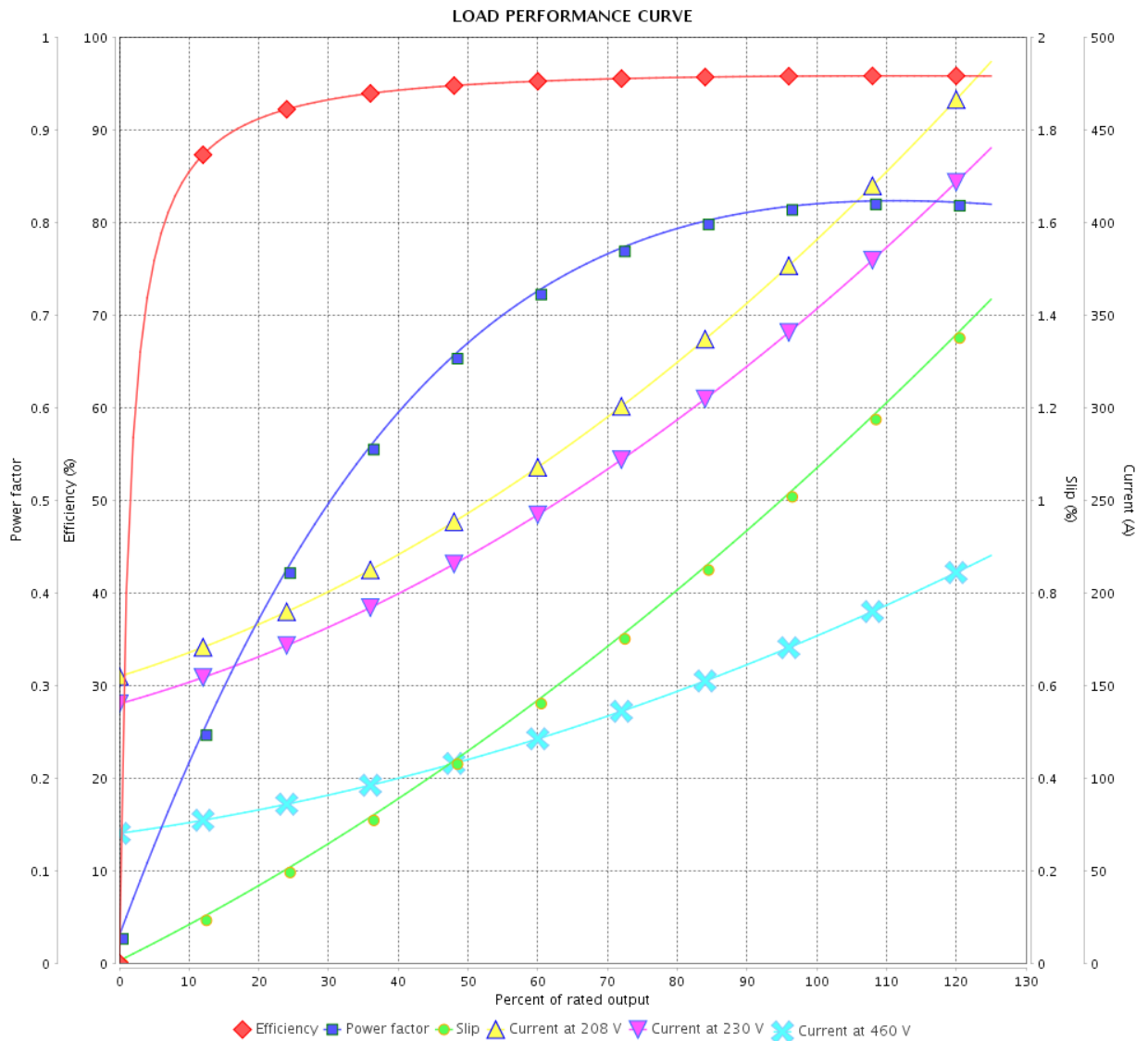


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Rated current : 352/176 A
 LRC : 6.2
 Rated torque : 664 ft.lb
 Locked rotor torque : 240 %
 Breakdown torque : 250 %
 Rated speed : 1187 rpm

Moment of inertia (J) : 134 sq.ft.lb
 Duty cycle : Cont.(S1)
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 Service factor : 1.15
 Temperature rise : 80 K
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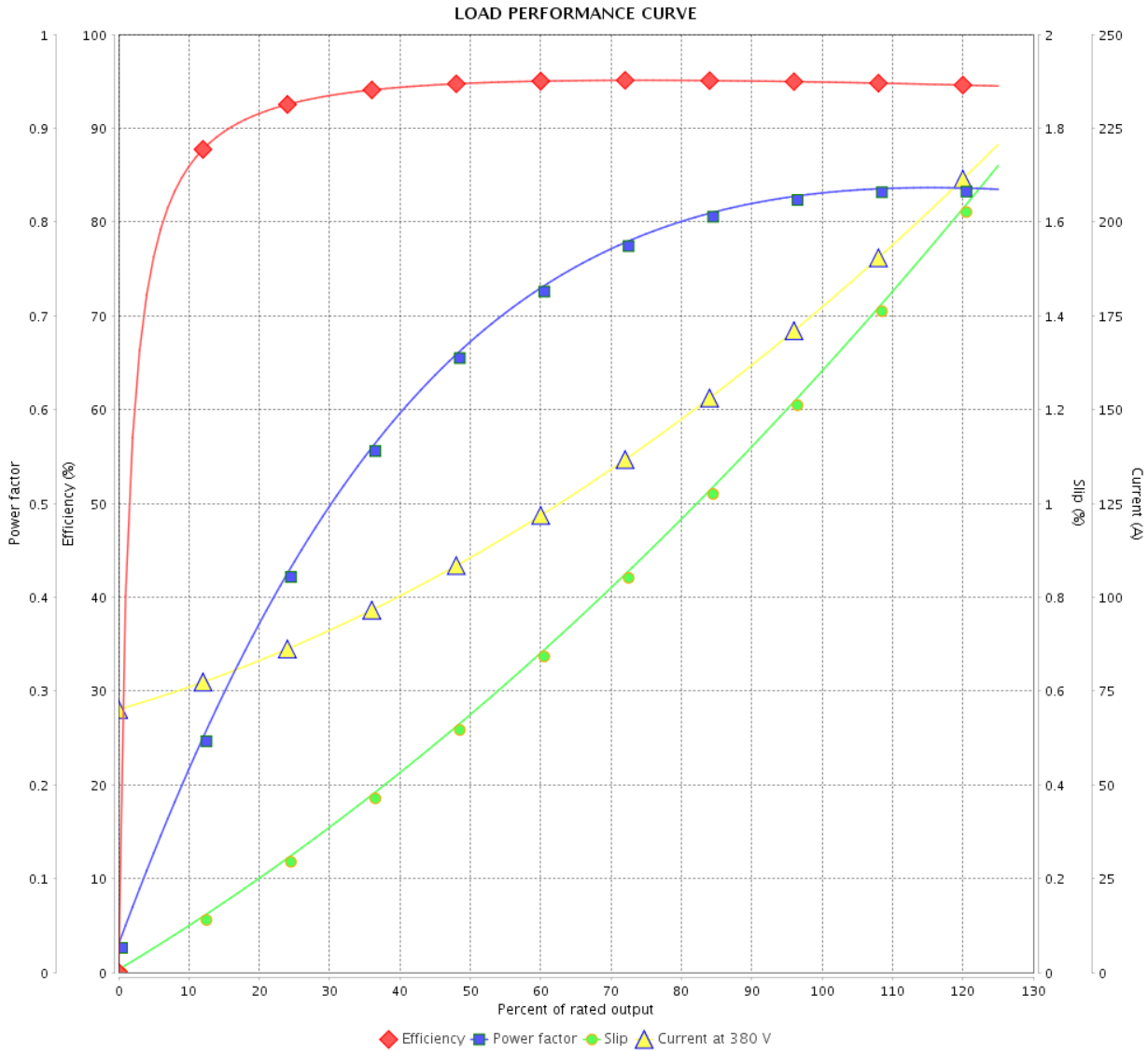


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Performance : 380 V 50 Hz 6P IE3

| | | | |
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| Rated current | : 174 A | Moment of inertia (J) | : 134 sq.ft.lb |
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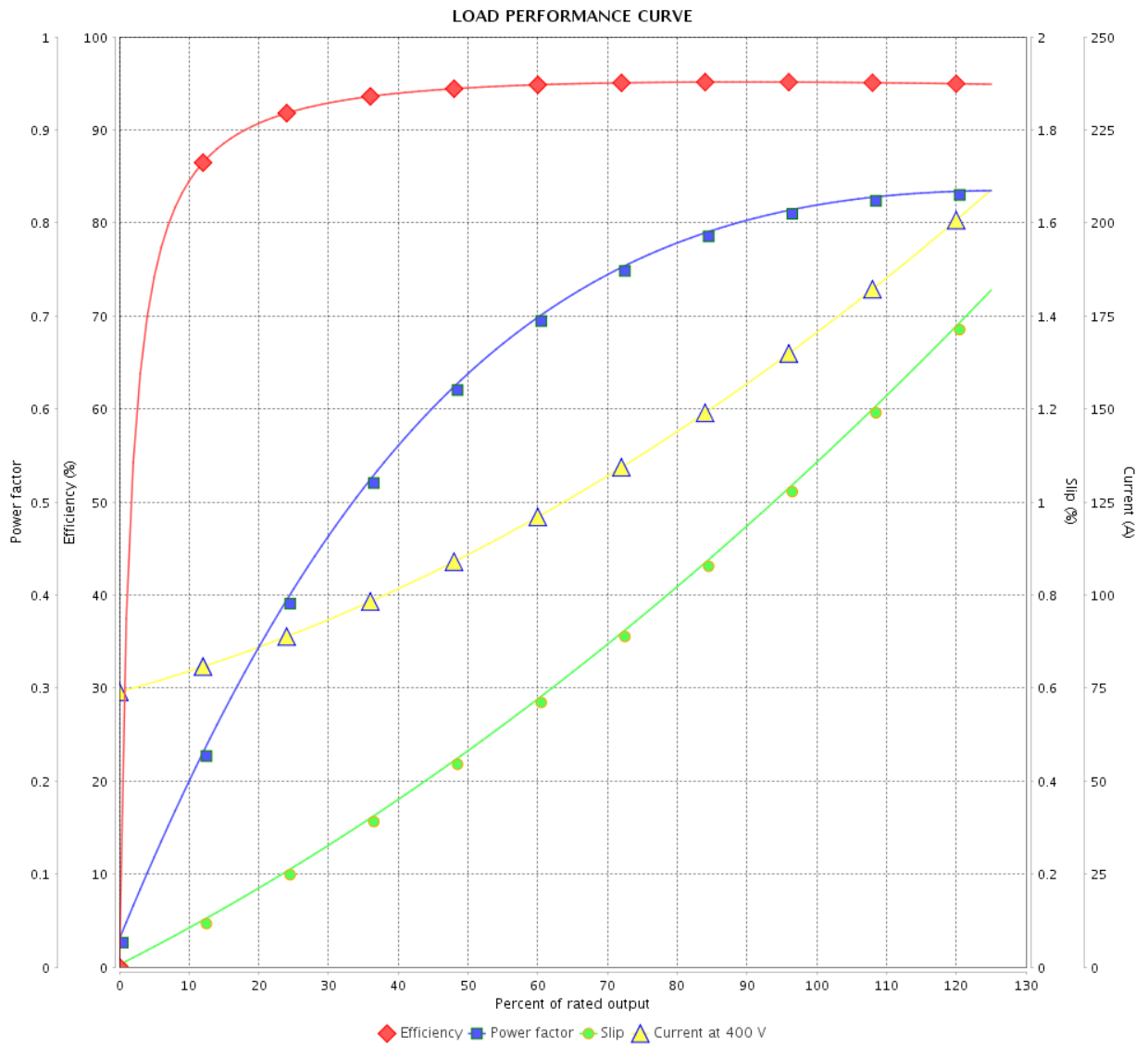


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Performance : 400 V 50 Hz 6P IE3

Rated current : 167 A
 LRC : 6.5
 Rated torque : 664 ft.lb
 Locked rotor torque : 270 %
 Breakdown torque : 270 %
 Rated speed : 989 rpm

Moment of inertia (J) : 134 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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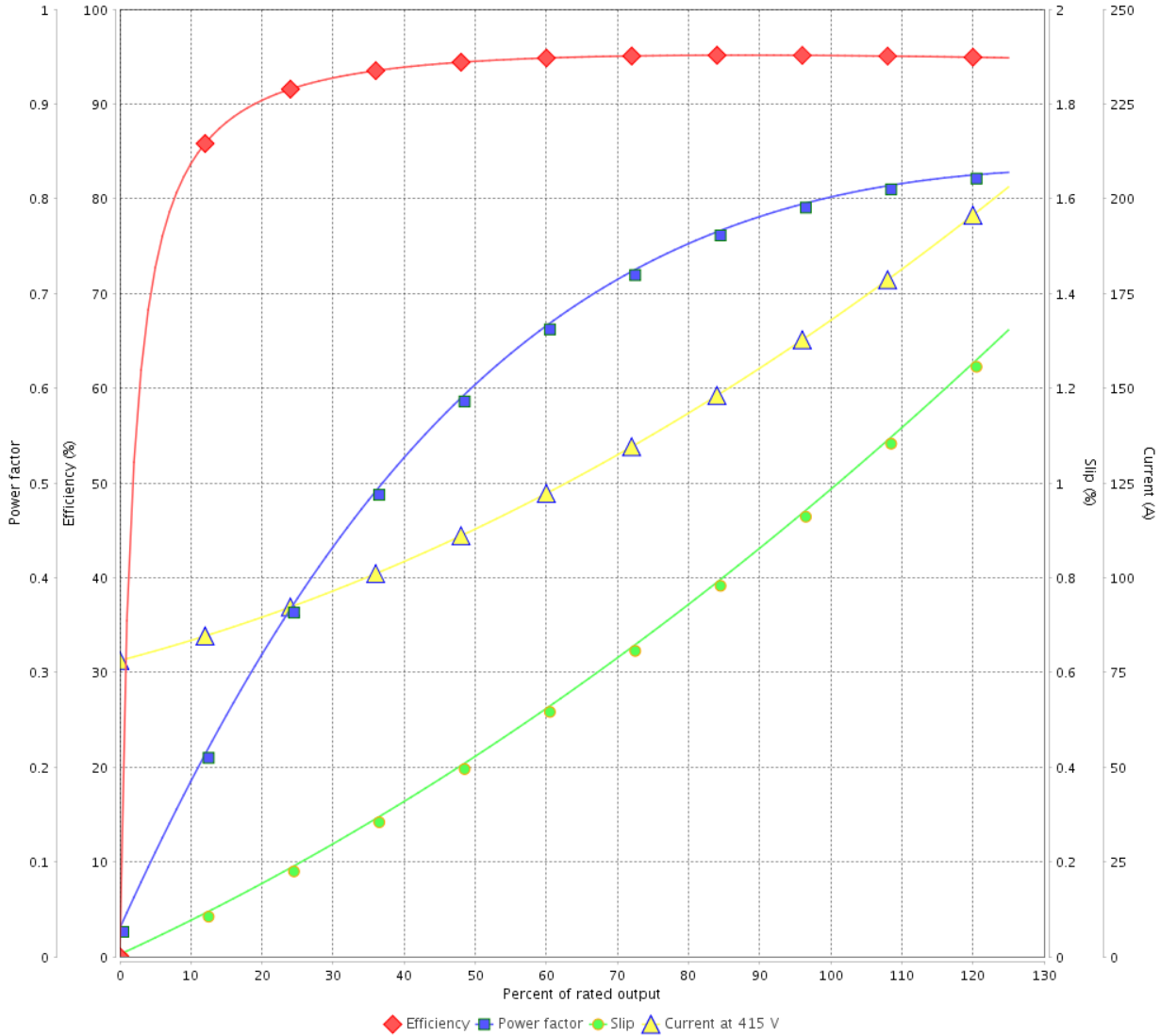
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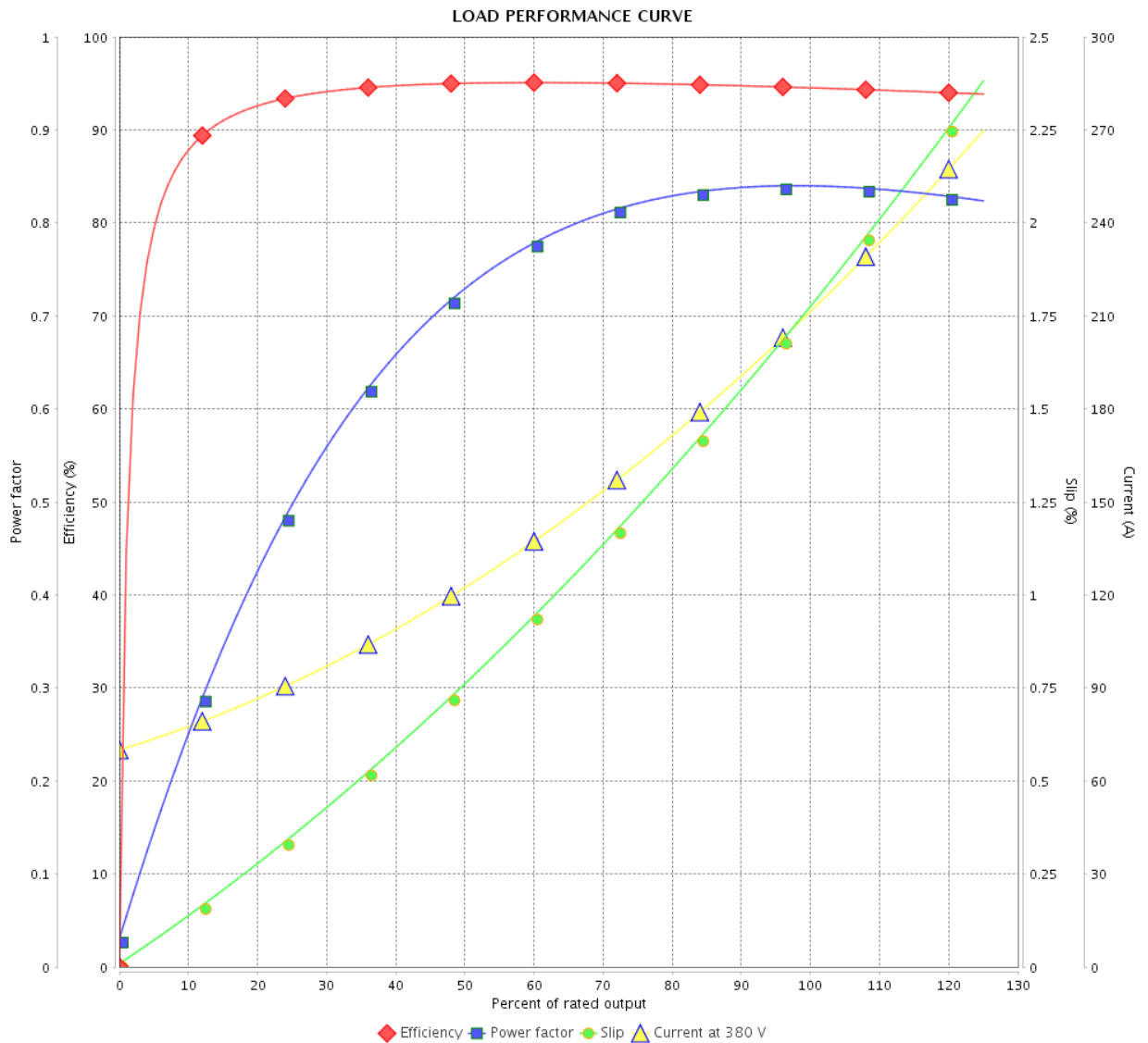
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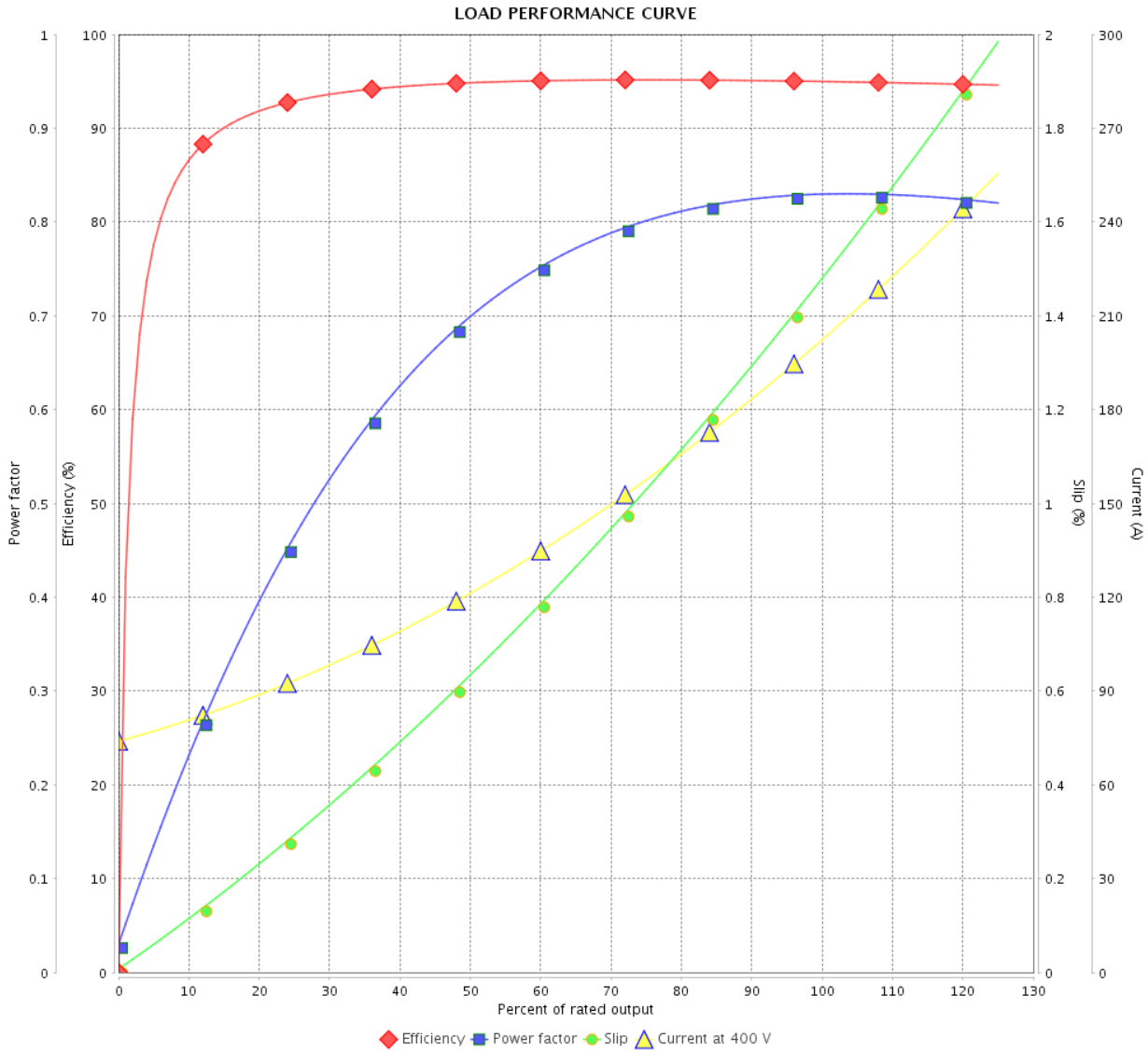


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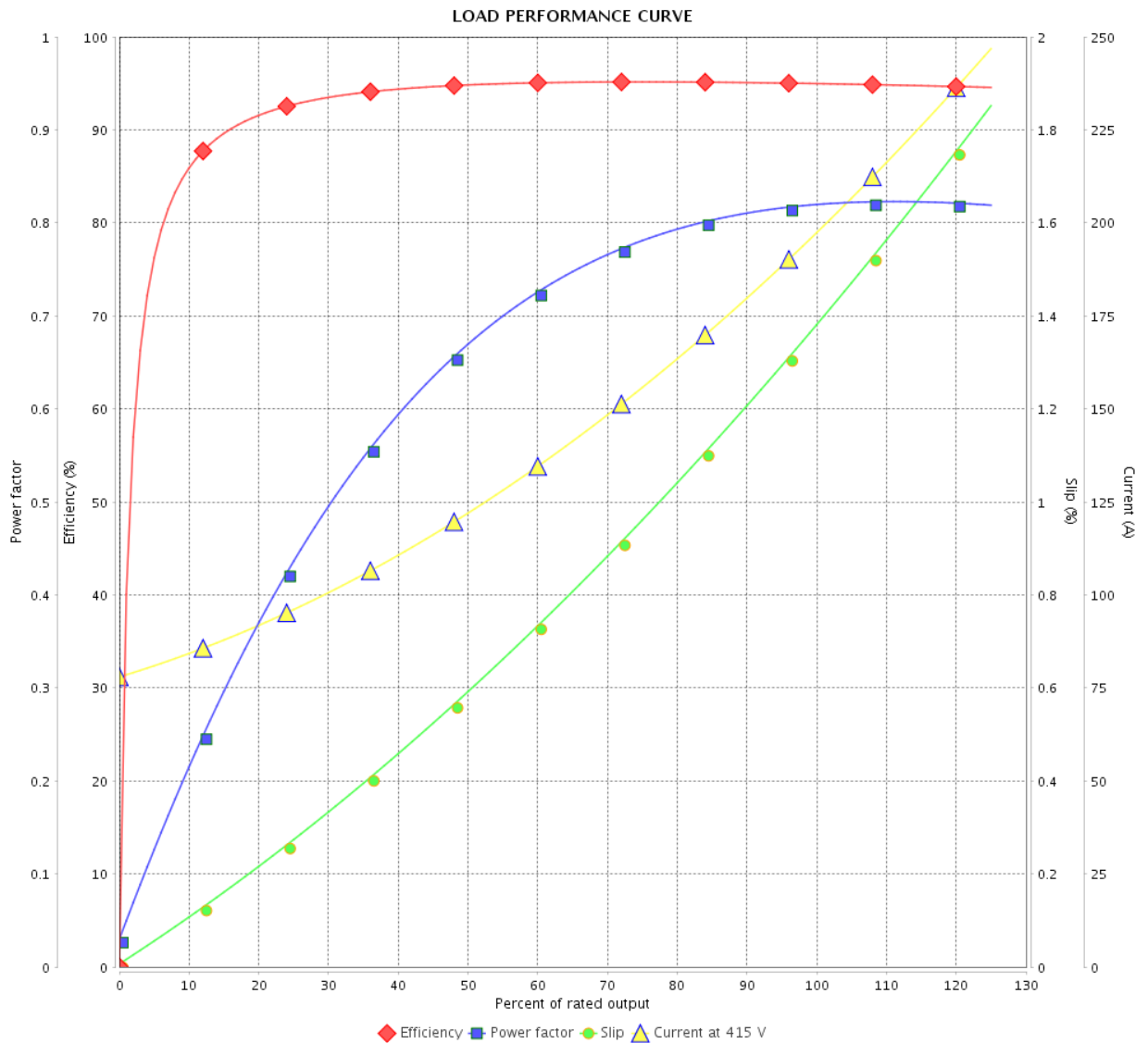


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THERMAL LIMIT CURVE



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Heating constant

Cooling constant

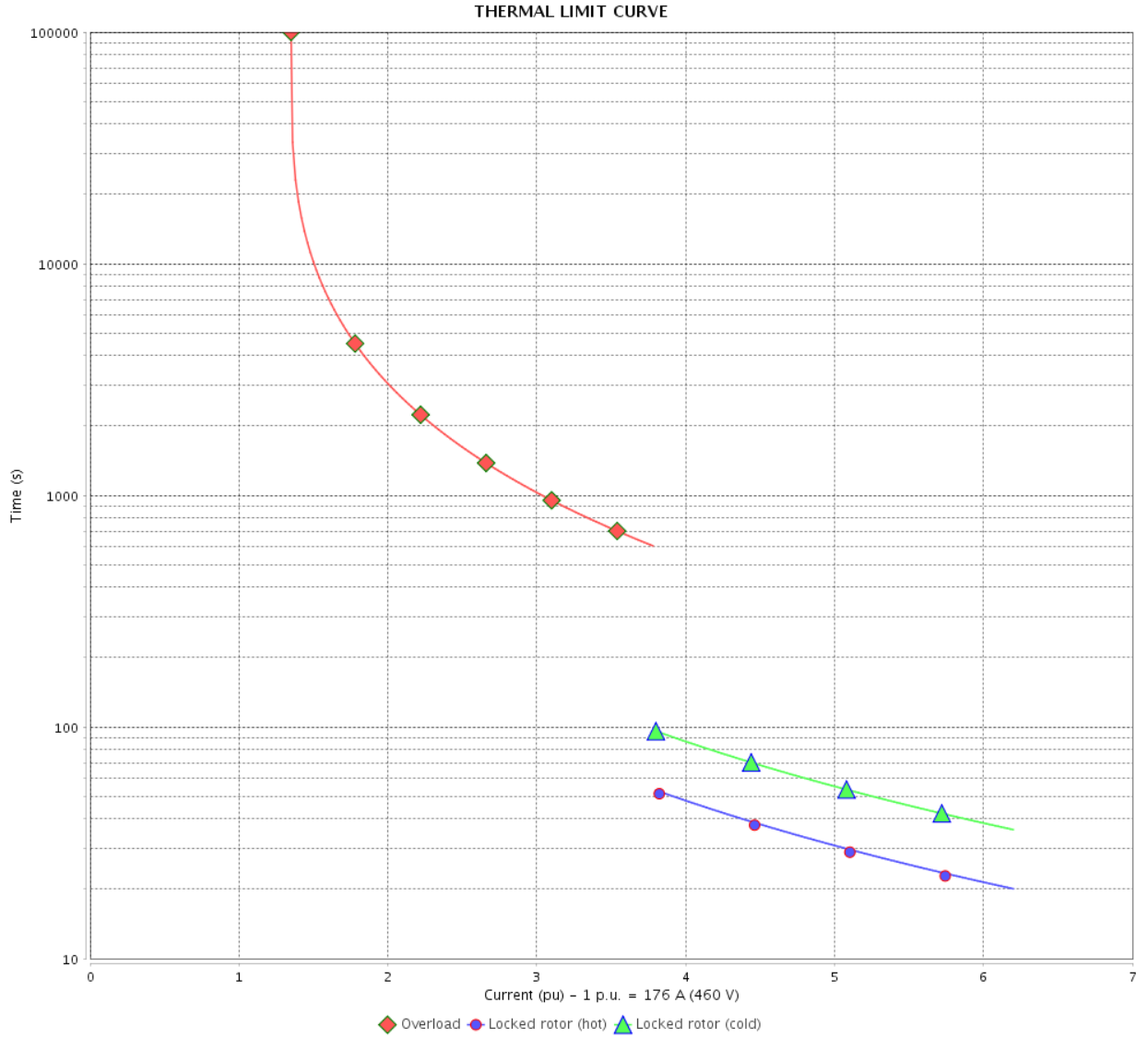
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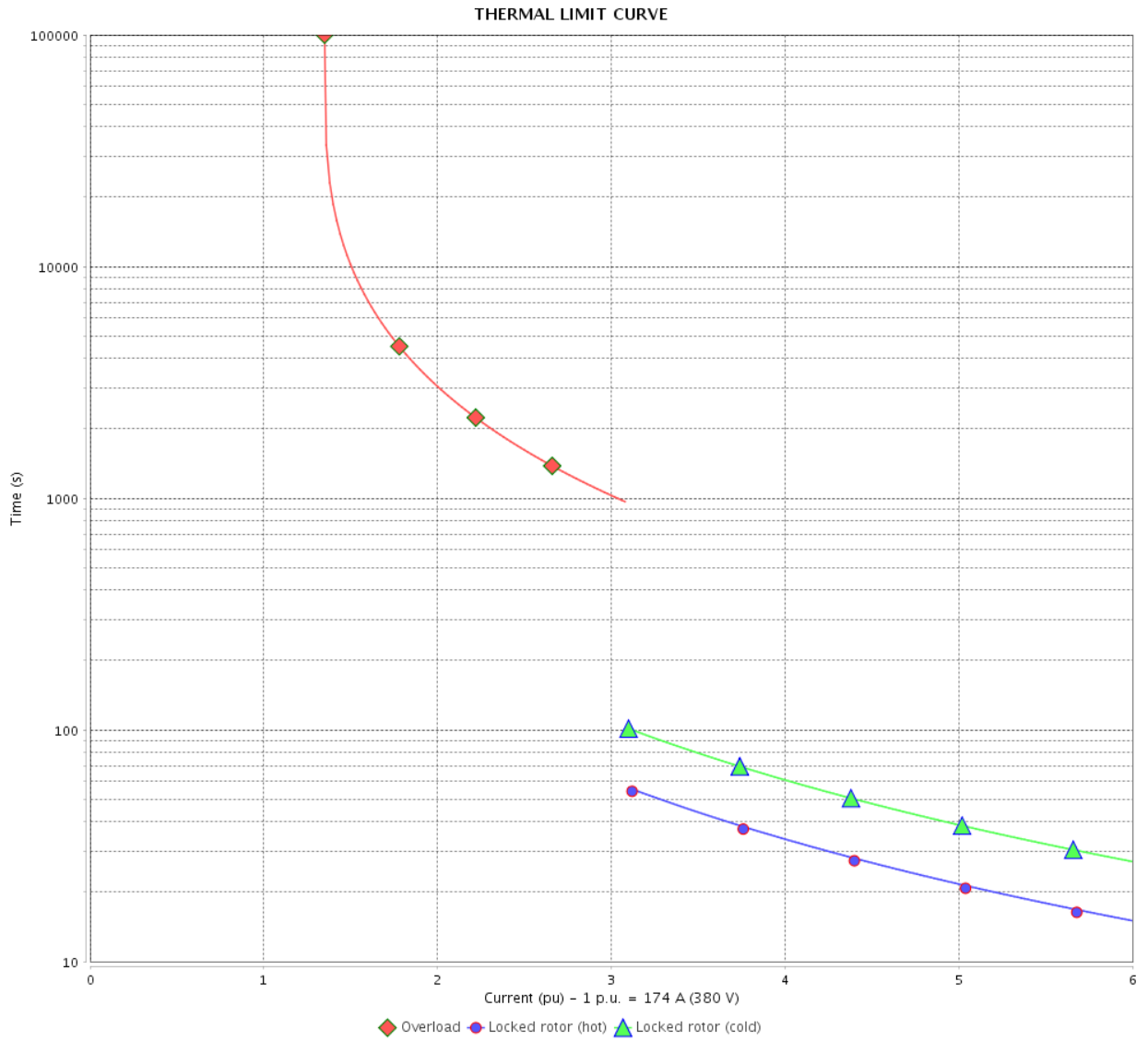
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Cooling constant

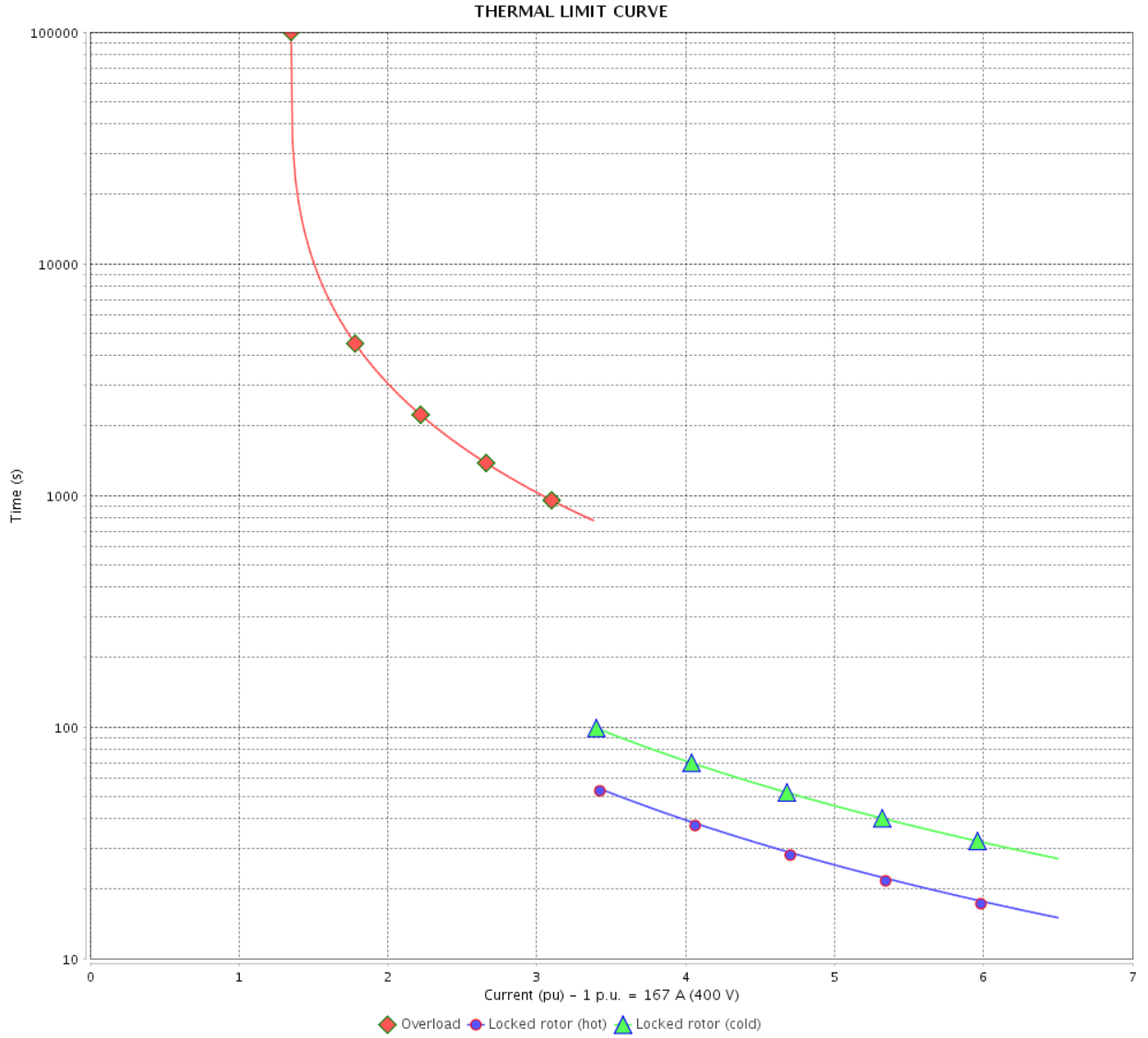
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Three Phase Induction Motor - Squirrel Cage



Customer : _____



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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase
Product code : 11626903
Catalog # : 15012ET3E447T-W22

Performance : 415 V 50 Hz 6P IE3

| | | | |
|---------------------|-------------|-----------------------|----------------|
| Rated current | : 165 A | Moment of inertia (J) | : 134 sq.ft.lb |
| LRC | : 7.0 | Duty cycle | : Cont.(S1) |
| Rated torque | : 663 ft.lb | Insulation class | : F |
| Locked rotor torque | : 290 % | Service factor | : 1.00 |
| Breakdown torque | : 290 % | Temperature rise | : 80 K |
| Rated speed | : 990 rpm | Design | : B |

Heating constant

Cooling constant

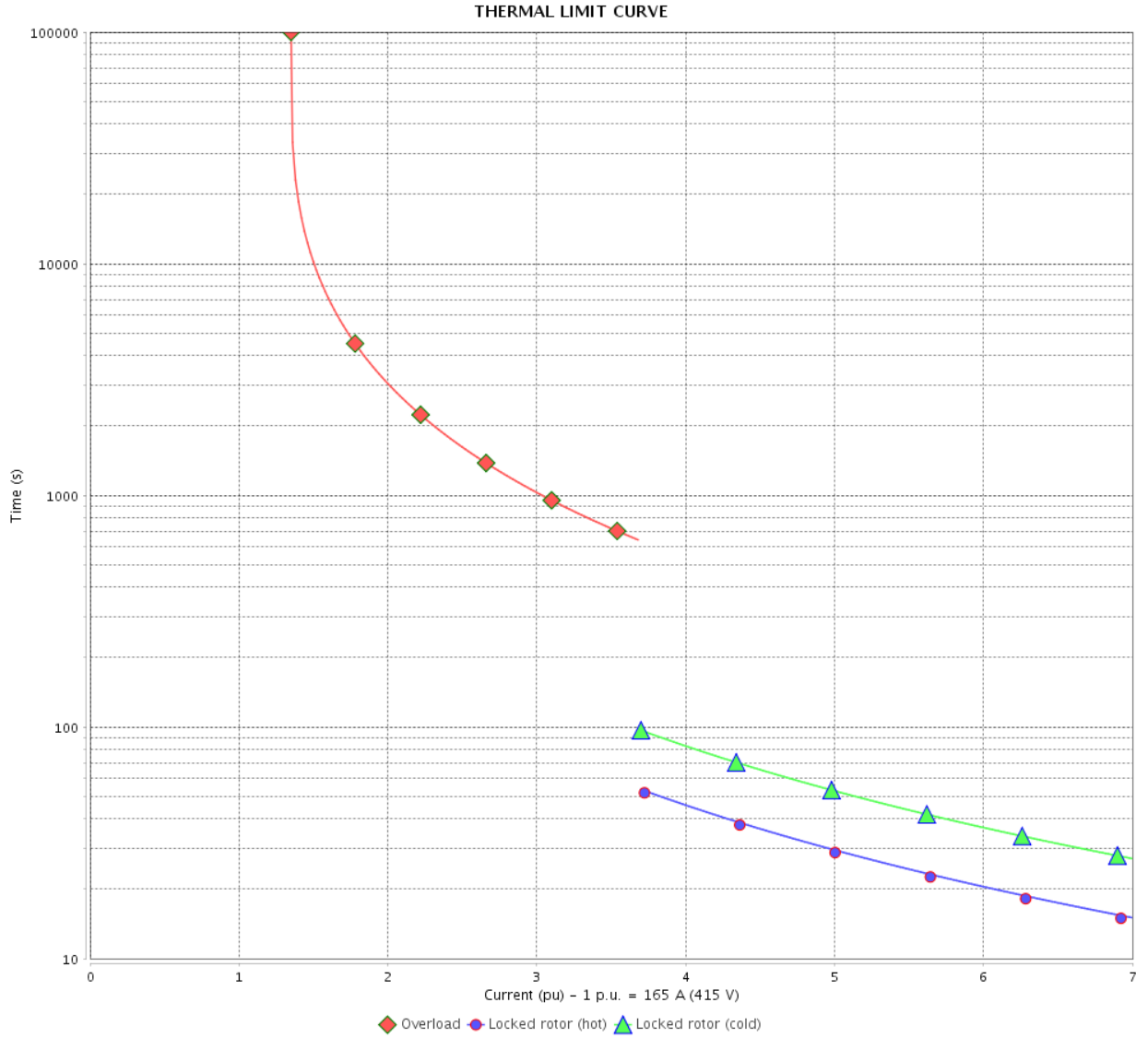
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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| Date | | | | |

THERMAL LIMIT CURVE



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase
Product code : 11626903
Catalog # : 15012ET3E447T-W22

Performance : 380 V 50 Hz 6P IE2

| | | | |
|---------------------|-------------|-----------------------|----------------|
| Rated current | : 211 A | Moment of inertia (J) | : 134 sq.ft.lb |
| LRC | : 5.0 | Duty cycle | : Cont.(S1) |
| Rated torque | : 802 ft.lb | Insulation class | : F |
| Locked rotor torque | : 190 % | Service factor | : 1.00 |
| Breakdown torque | : 200 % | Temperature rise | : 105 K |
| Rated speed | : 982 rpm | Design | : B |

Heating constant

Cooling constant

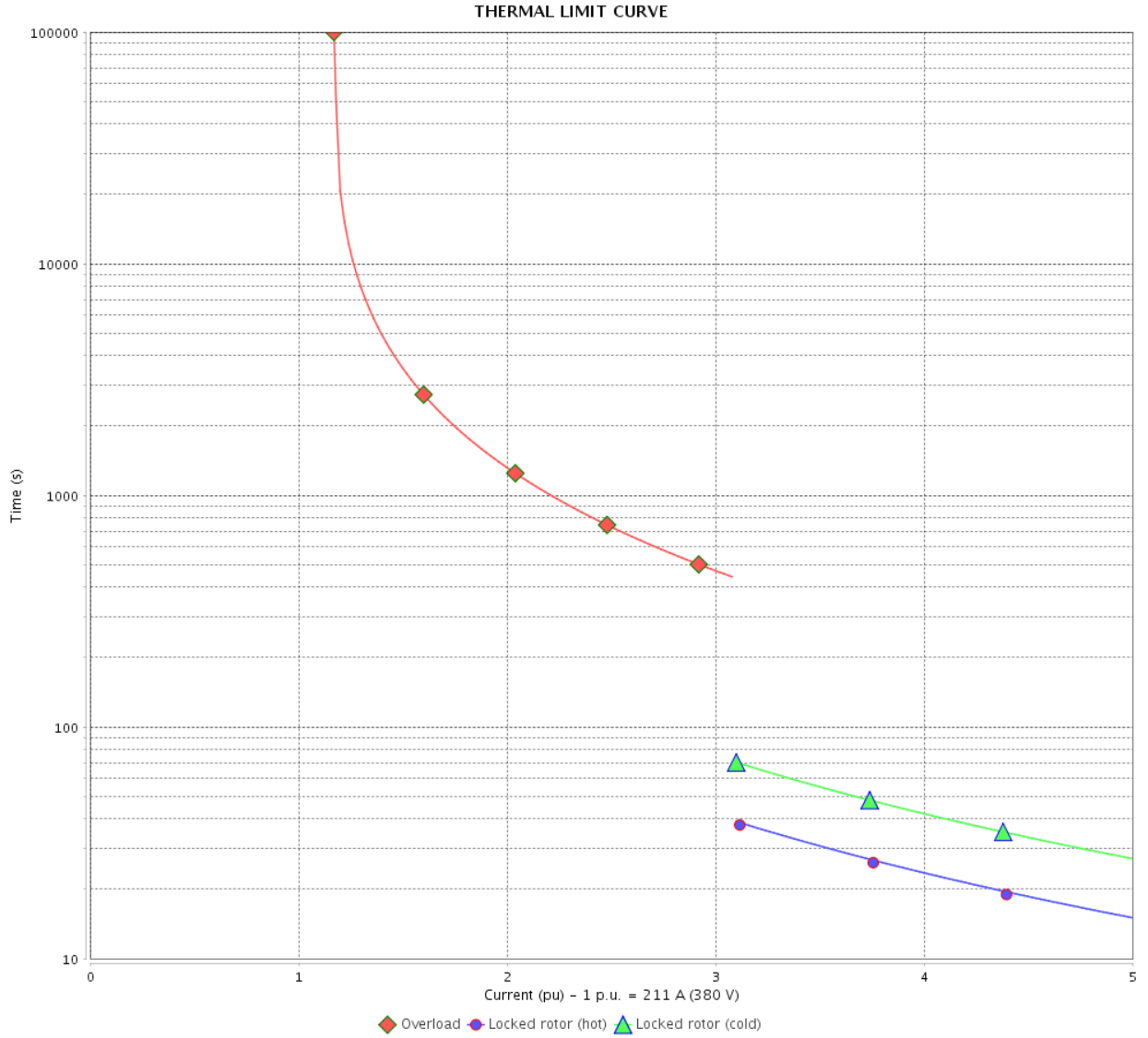
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THERMAL LIMIT CURVE

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 : 11626903
Catalog # : 15012ET3E447T-W22

Performance : 400 V 50 Hz 6P IE2

| | | | |
|---------------------|-------------|-----------------------|----------------|
| Rated current | : 201 A | Moment of inertia (J) | : 134 sq.ft.lb |
| LRC | : 5.5 | Duty cycle | : Cont.(S1) |
| Rated torque | : 800 ft.lb | Insulation class | : F |
| Locked rotor torque | : 220 % | Service factor | : 1.00 |
| Breakdown torque | : 229 % | Temperature rise | : 105 K |
| Rated speed | : 985 rpm | Design | : B |

Heating constant

Cooling constant

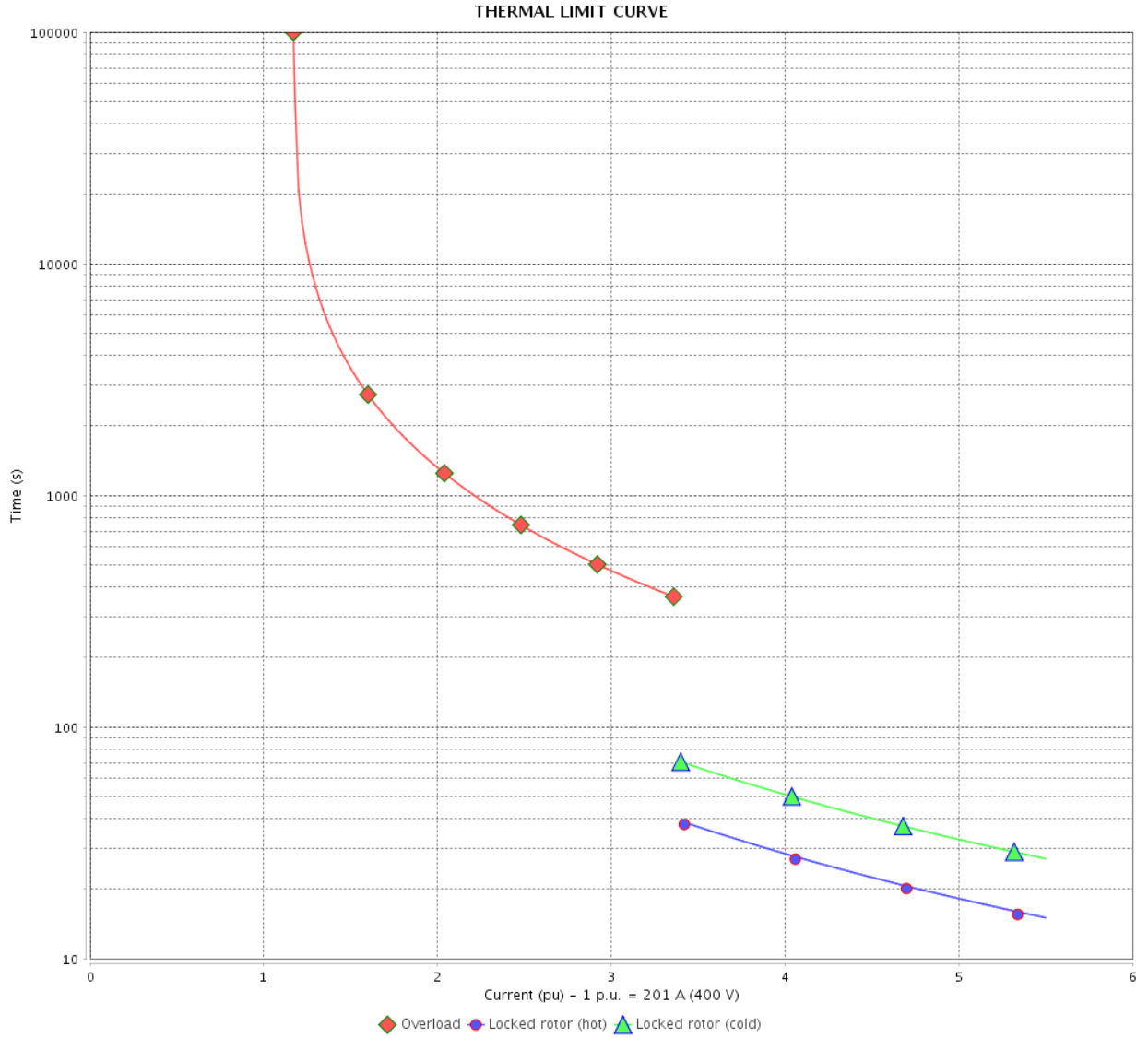
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THERMAL LIMIT CURVE

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 : 11626903
Catalog # : 15012ET3E447T-W22

Performance : 415 V 50 Hz 6P IE2

| | | | |
|---------------------|-------------|-----------------------|----------------|
| Rated current | : 196 A | Moment of inertia (J) | : 134 sq.ft.lb |
| LRC | : 6.0 | Duty cycle | : Cont.(S1) |
| Rated torque | : 799 ft.lb | Insulation class | : F |
| Locked rotor torque | : 240 % | Service factor | : 1.00 |
| Breakdown torque | : 250 % | Temperature rise | : 105 K |
| Rated speed | : 986 rpm | Design | : B |

Heating constant

Cooling constant

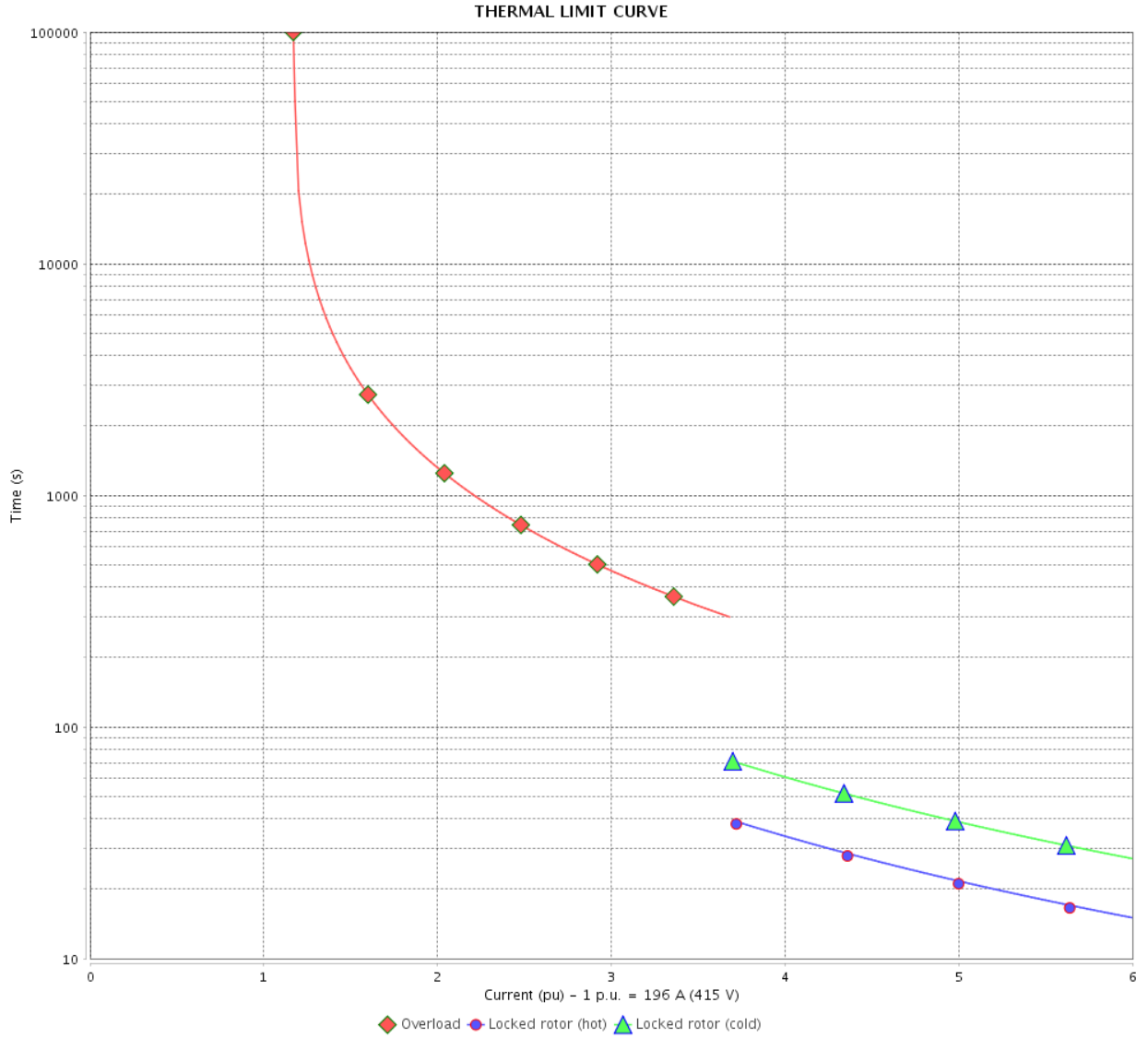
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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| Performed by | | | | |
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

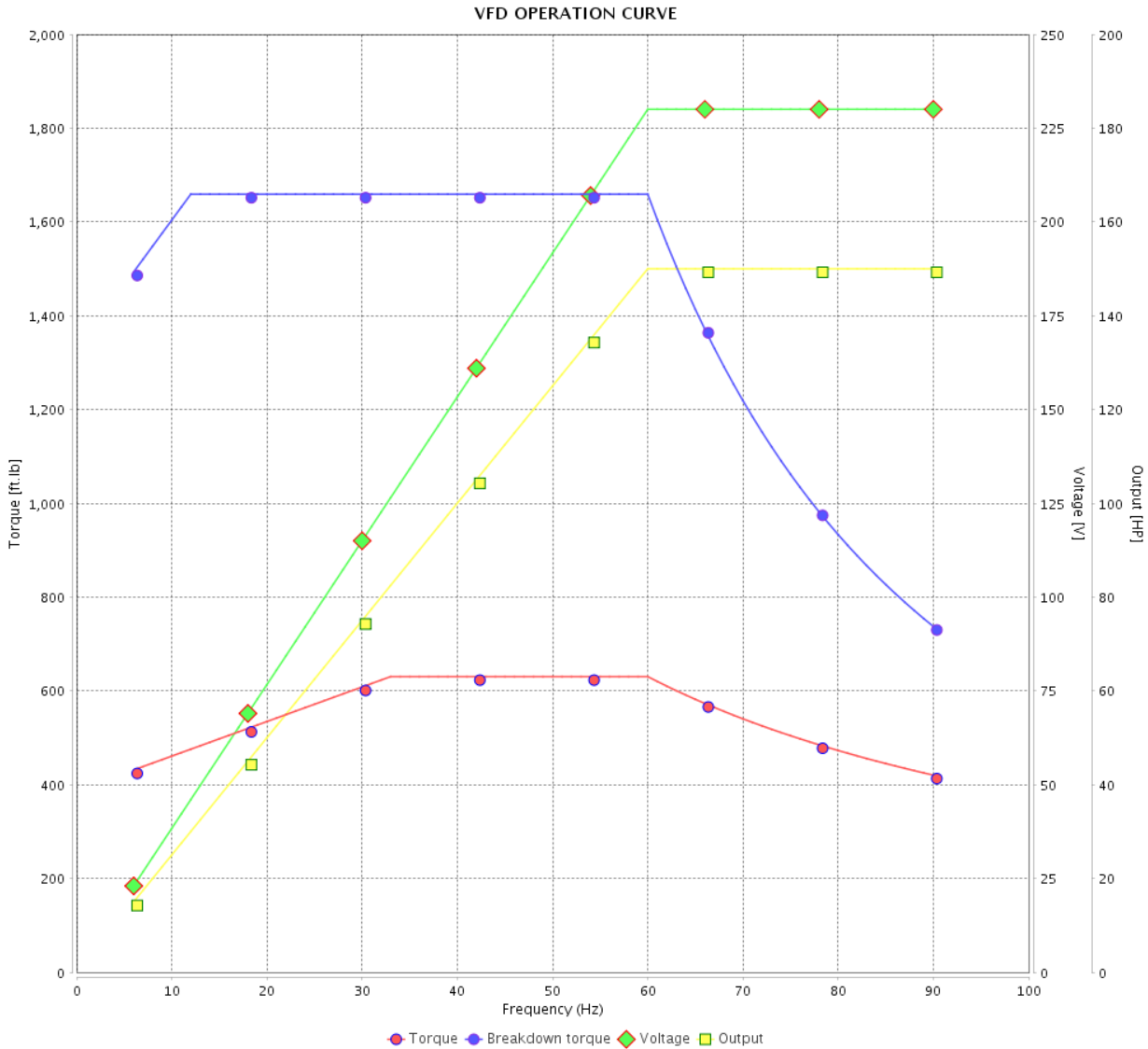


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11626903

Catalog # : 15012ET3E447T-W22



Performance : 230/460 V 60 Hz 6P

Rated current : 352/176 A
 LRC : 6.2
 Rated torque : 664 ft.lb
 Locked rotor torque : 240 %
 Breakdown torque : 250 %
 Rated speed : 1187 rpm

Moment of inertia (J) : 134 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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| Performed by | | | Page | Revision |
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| Date | | | | |

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

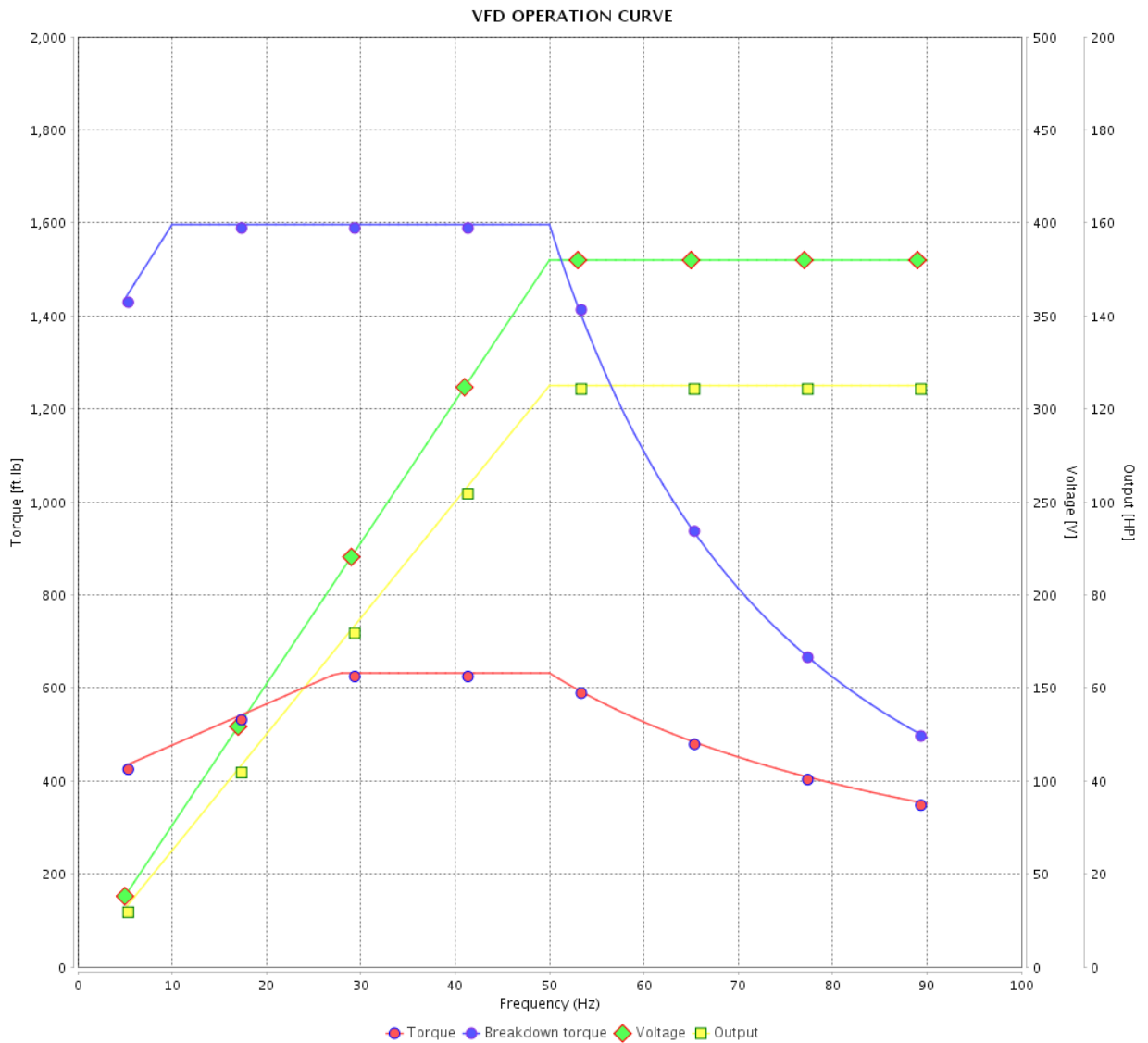


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11626903

Catalog # : 15012ET3E447T-W22



Performance : 380 V 50 Hz 6P IE3

Rated current : 174 A
 LRC : 6.0
 Rated torque : 665 ft.lb
 Locked rotor torque : 240 %
 Breakdown torque : 240 %
 Rated speed : 987 rpm

Moment of inertia (J) : 134 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 |
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



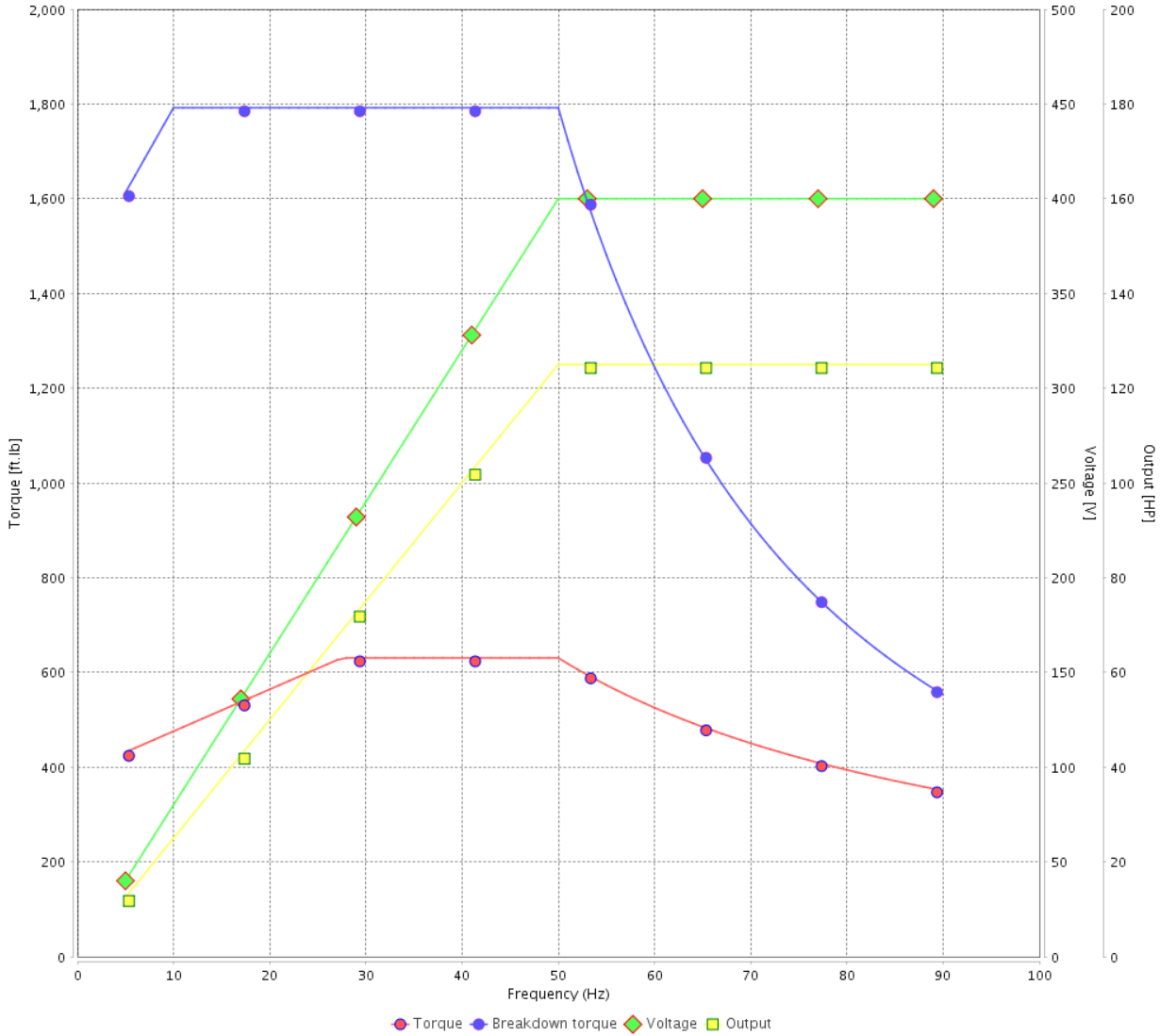
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11626903

Catalog # : 15012ET3E447T-W22

VFD OPERATION CURVE



Performance : 400 V 50 Hz 6P IE3

Rated current : 167 A
 LRC : 6.5
 Rated torque : 664 ft.lb
 Locked rotor torque : 270 %
 Breakdown torque : 270 %
 Rated speed : 989 rpm

Moment of inertia (J) : 134 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 |
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| Date | | | | |

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

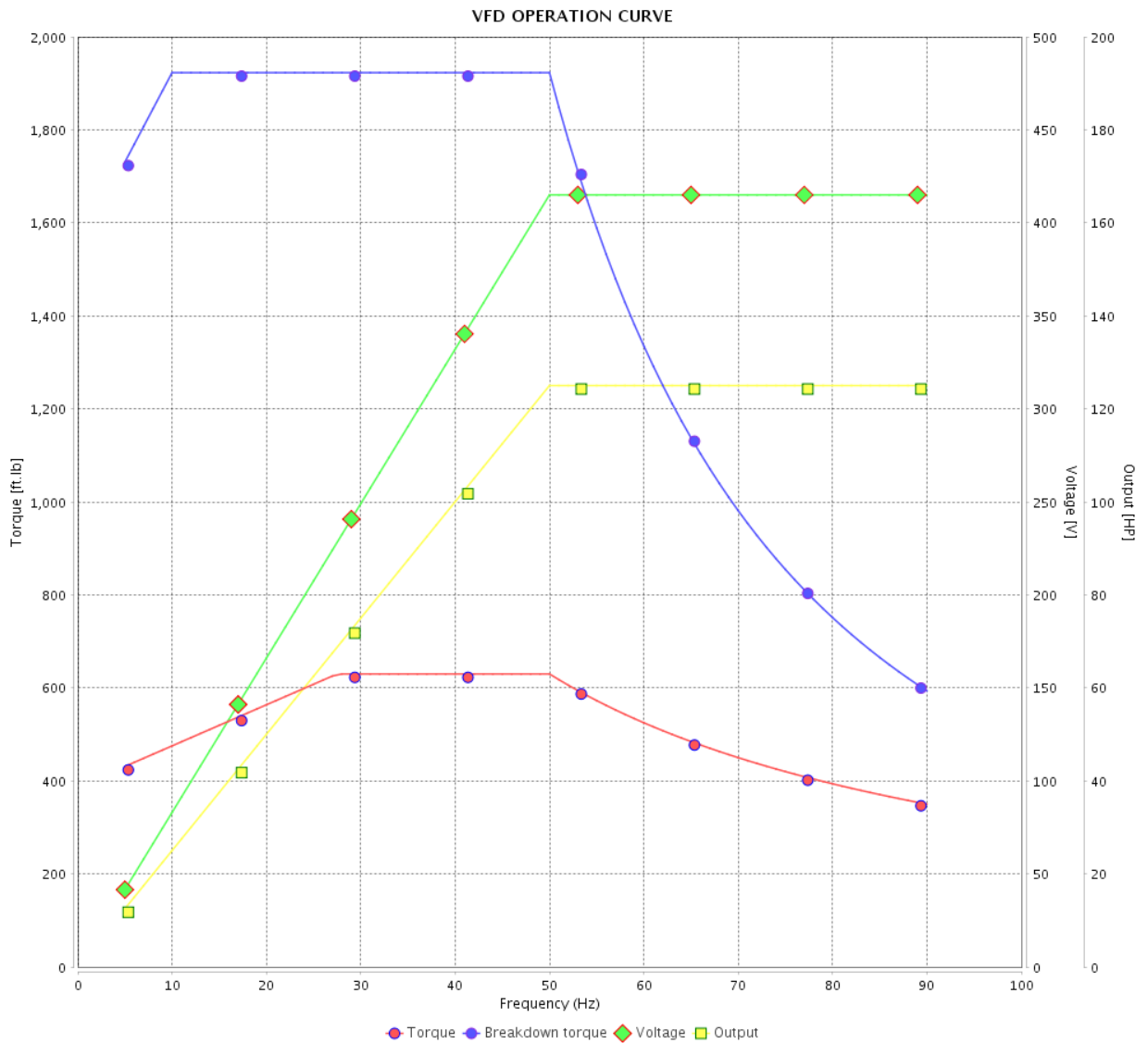


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11626903

Catalog # : 15012ET3E447T-W22



Performance : 415 V 50 Hz 6P IE3

Rated current : 165 A
 LRC : 7.0
 Rated torque : 663 ft.lb
 Locked rotor torque : 290 %
 Breakdown torque : 290 %
 Rated speed : 990 rpm

Moment of inertia (J) : 134 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 |
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



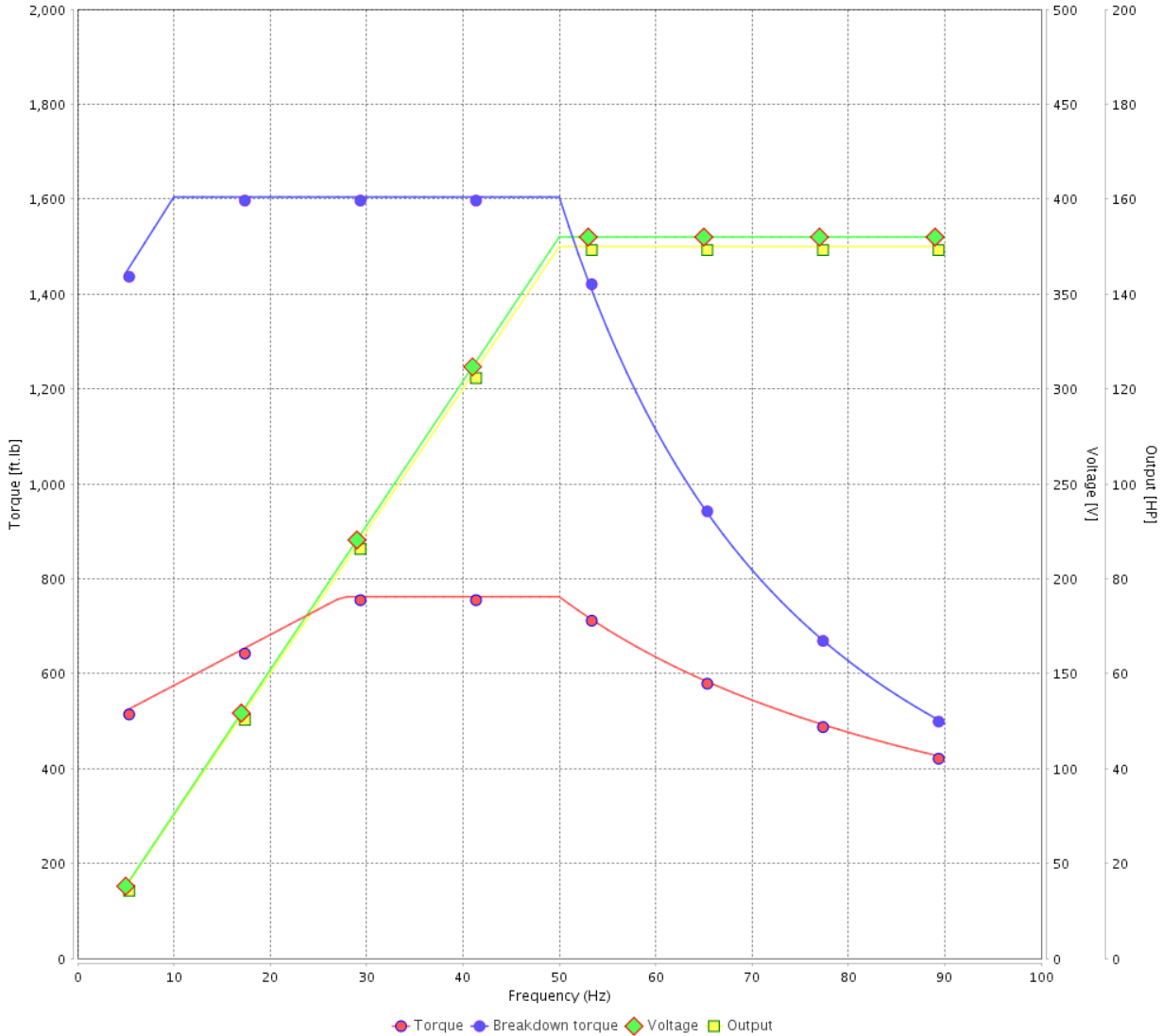
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11626903

Catalog # : 15012ET3E447T-W22

VFD OPERATION CURVE



Performance : 380 V 50 Hz 6P IE2

| | | | |
|---------------------|-------------|-----------------------|----------------|
| Rated current | : 211 A | Moment of inertia (J) | : 134 sq.ft.lb |
| LRC | : 5.0 | Duty cycle | : Cont.(S1) |
| Rated torque | : 802 ft.lb | Insulation class | : F |
| Locked rotor torque | : 190 % | Service factor | : 1.00 |
| Breakdown torque | : 200 % | Temperature rise | : 105 K |
| Rated speed | : 982 rpm | Design | : B |

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

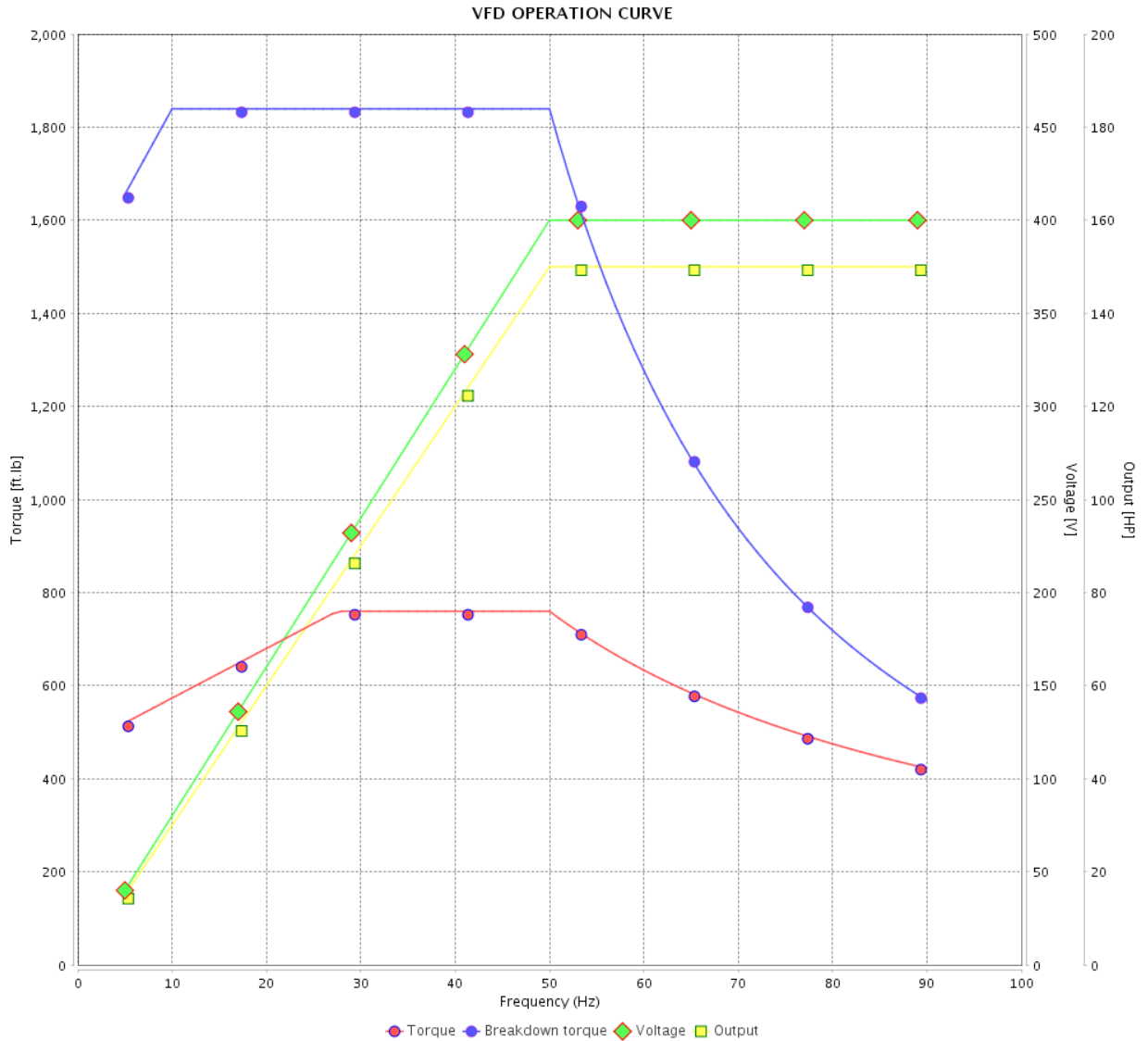
VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase
 Product code : 11626903
 Catalog # : 15012ET3E447T-W22



Performance : 400 V 50 Hz 6P IE2

| | | | |
|---------------------|-------------|-----------------------|----------------|
| Rated current | : 201 A | Moment of inertia (J) | : 134 sq.ft.lb |
| LRC | : 5.5 | Duty cycle | : Cont.(S1) |
| Rated torque | : 800 ft.lb | Insulation class | : F |
| Locked rotor torque | : 220 % | Service factor | : 1.00 |
| Breakdown torque | : 229 % | Temperature rise | : 105 K |
| Rated speed | : 985 rpm | Design | : B |

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

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

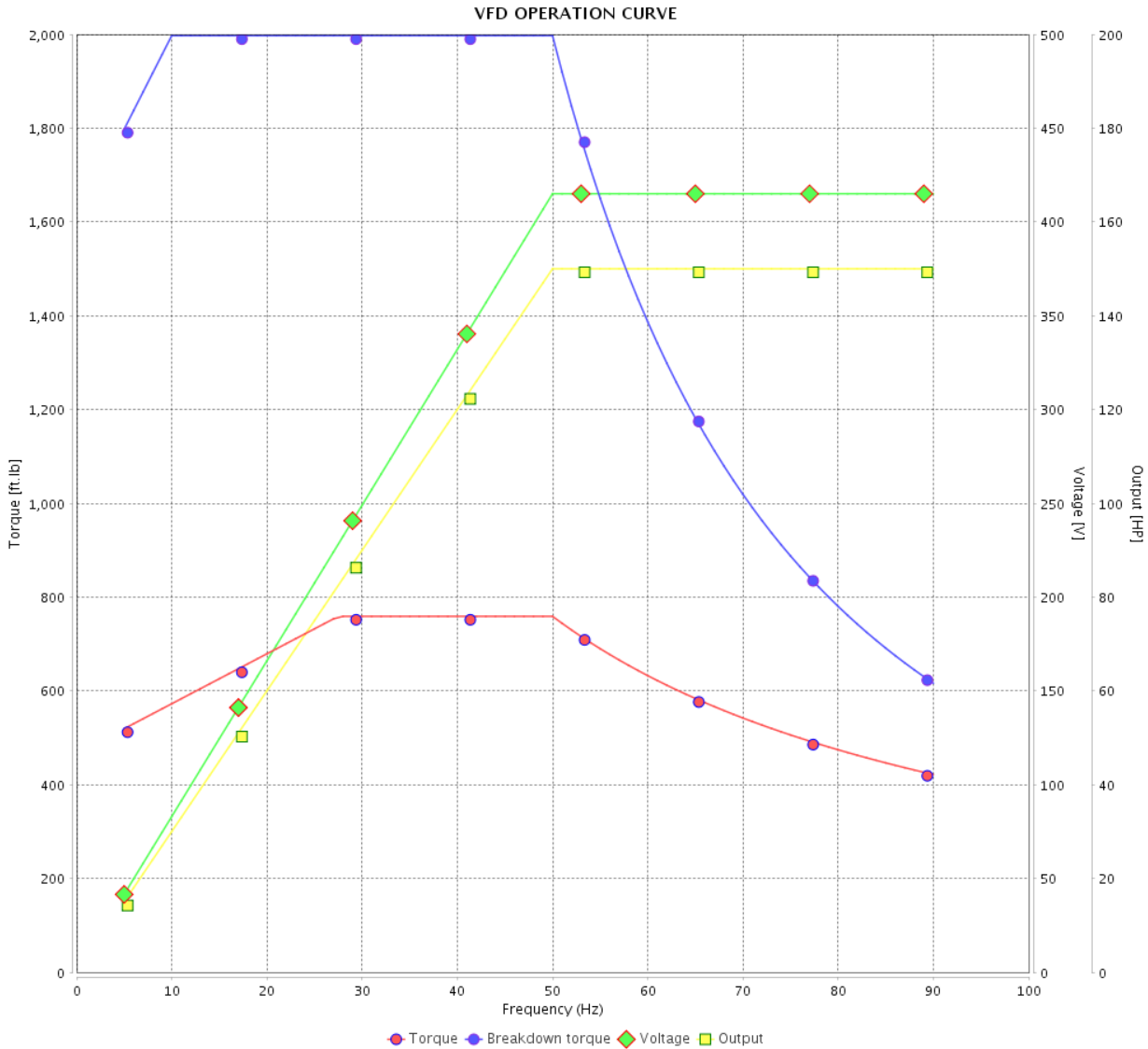


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11626903

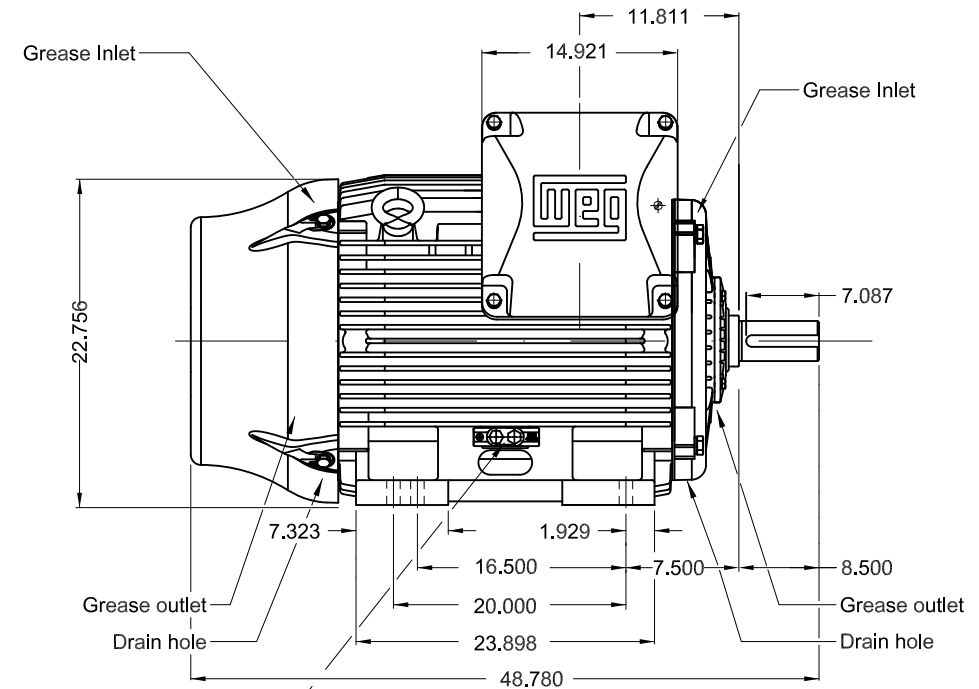
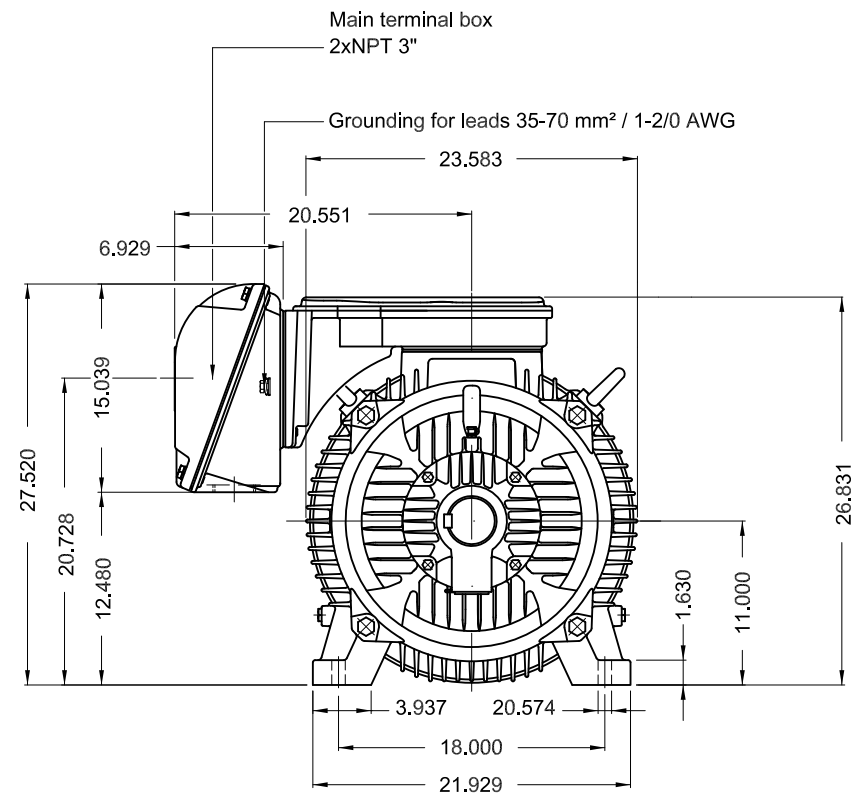
Catalog # : 15012ET3E447T-W22



Performance : 415 V 50 Hz 6P IE2

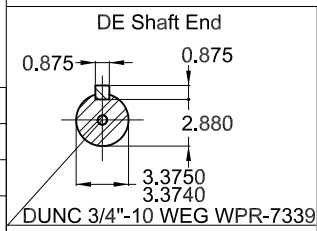
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|---------------------|-------------|-----------------------|----------------|
| Rated current | : 196 A | Moment of inertia (J) | : 134 sq.ft.lb |
| LRC | : 6.0 | Duty cycle | : Cont.(S1) |
| Rated torque | : 799 ft.lb | Insulation class | : F |
| Locked rotor torque | : 240 % | Service factor | : 1.00 |
| Breakdown torque | : 250 % | Temperature rise | : 105 K |
| Rated speed | : 986 rpm | Design | : B |

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



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

Without vertical jackscrews
 Color RAL 5009
 Painting plan 203A
 Mounting B3R(D)



150 HP 06 Poles 60 Hz

A

| ECM | LOC | SUMMARY OF MODIFICATIONS | EXECUTED | CHECKED | RELEASED | DATE | VER |
|----------|----------|--------------------------------|---------------------|---------|----------|------|-----|
| EXECUTED | PIRWUSER | THREE PH. MOTOR W22 PREM. EFF. | | | | | |
| CHECKED | | FRAME 445/7T IP55 TEFC | | | | | |
| RELEASED | | | | | | | |
| REL DT. | WMO | Jaragua do Sul | Product Engineering | | | | |

PREVIEW
 WDD



SHEET 1 / 1

Dimensions in inches

XME A3

MADE IN MEXICO
11626903



NEMA
Premium
W22



FOR SAFE AREA
Mod.TE1BFOXON
CC029A



For use on 60Hz
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 - T3C
For use on PWM: Gr. A, B, C, D and F,
VT 1000:1, CT 20:1, 1.00SF - T3

MODEL 15012ET3E447T-W22

Inverter Duty Motor
Severe Duty

PH3 60Hz Fr. 445/7T 1000m.a.s.l. IP55 TEFC 2284lb

V 230/460 A 352/176

HP 150 kW 110

SF 1.15 SFA 405/202

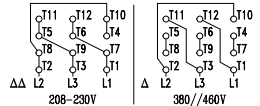
RPM 1187 PF 0.82

AMB 40°C INS cl. F DT80K NEMA NOM EFF 95.8%

DUTY CONT. DES B Code G

USABLE @208V 389A SF 1.00

150HP 110kW 50Hz 380V 211A 982RPM SF 1.00 EFF 94.5% (IE2)



- 6319-C3 (45g)
- 6316-C3 (34g)



MOBIL POLYREX EM (13000h)

