

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

| | | | | | | | | |
|--|---------------------------------------|-----------------------------|----------------------------|--|-------------------------|-------------------------|-------------------------|------|
| Customer : | | | | | | | | |
| Product line | : NEMA Premium Efficiency Three-Phase | Product code : | 11356015 | | | | | |
| | | Catalog # : | 07518ET3G365T-W22 | | | | | |
| Frame | : 364/5T | 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 | : 923 lb | | | | | |
| Protection degree | : IP55 | Moment of inertia (J) | : 23.3 sq.ft.lb | | | | | |
| Design | : B | | | | | | | |
| Output [HP] | 75 | 60 | 60 | 60 | 75 | 75 | 75 | |
| 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] | 87.2 | 88.5 | 84.9 | 82.7 | 106 | 102 | 98.7 | |
| L. R. Amperes [A] | 558 | 620 | 637 | 662 | 541 | 571 | 602 | |
| LRC [A] | 6.4x(Code G) | 7.0x(Code H) | 7.5x(Code J) | 8.0x(Code J) | 5.1x(Code E) | 5.6x(Code F) | 6.1x(Code G) | |
| No load current [A] | 33.0 | 33.0 | 35.0 | 38.0 | 33.0 | 35.0 | 38.0 | |
| Rated speed [RPM] | 1780 | 1480 | 1480 | 1485 | 1470 | 1475 | 1480 | |
| Slip [%] | 1.11 | 1.33 | 1.33 | 1.00 | 2.00 | 1.67 | 1.33 | |
| Rated torque [ft.lb] | 221 | 213 | 213 | 212 | 268 | 267 | 266 | |
| Locked rotor torque [%] | 240 | 210 | 240 | 260 | 170 | 200 | 210 | |
| Breakdown torque [%] | 260 | 250 | 280 | 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 | 25s (cold) 14s (hot) | 18s (cold) 10s (hot) | 18s (cold) 10s (hot) | 18s (cold) 10s (hot) | 18s (cold) 10s (hot) | 18s (cold) 10s (hot) | 18s (cold) 10s (hot) | |
| Noise level ² | 67.0 dB(A) | 63.0 dB(A) | 63.0 dB(A) | 63.0 dB(A) | 63.0 dB(A) | 63.0 dB(A) | 63.0 dB(A) | |
| Efficiency (%) | 25% | 94.0 | 93.6 | 93.3 | 93.0 | 94.8 | 94.7 | 94.0 |
| | 50% | 94.5 | 93.7 | 93.6 | 93.5 | 94.5 | 94.5 | 94.1 |
| | 75% | 95.0 | 94.2 | 94.2 | 94.2 | 94.1 | 94.5 | 94.5 |
| | 100% | 95.4 | 94.2 | 94.4 | 94.6 | 93.6 | 94.1 | 94.5 |
| Power Factor | 25% | 0.44 | 0.44 | 0.40 | 0.37 | 0.51 | 0.46 | 0.43 |
| | 50% | 0.68 | 0.68 | 0.64 | 0.61 | 0.75 | 0.70 | 0.67 |
| | 75% | 0.78 | 0.78 | 0.75 | 0.73 | 0.82 | 0.80 | 0.78 |
| | 100% | 0.83 | 0.82 | 0.81 | 0.80 | 0.84 | 0.83 | 0.82 |
| Bearing type | : Drive end : 6314 C3 | Non drive end : 6314 C3 | Foundation loads | | | | | |
| Sealing | : WSeal | WSeal | Max. traction : 1725 lb | | | | | |
| Lubrication interval | : 12000 h | 12000 h | Max. compression : 2648 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. | | | | |
| Rev. | Changes Summary | | | Performed | Checked | Date | | |
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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



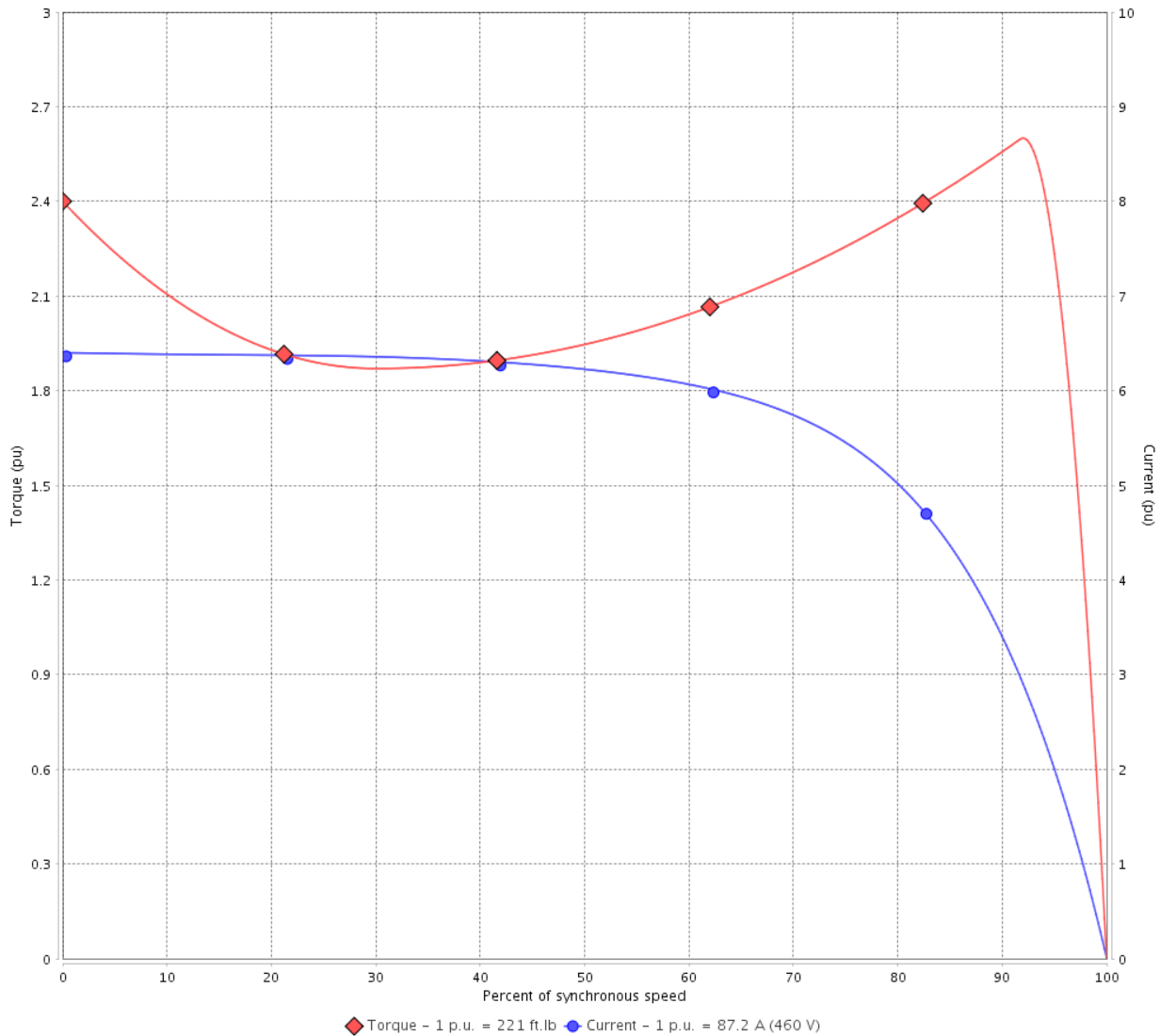
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11356015

Catalog # : 07518ET3G365T-W22

TORQUE AND CURRENT VS SPEED CURVE



Performance : 460 V 60 Hz 4P

| | | | |
|---------------------|-------------|-----------------------|-----------------|
| Rated current | : 87.2 A | Moment of inertia (J) | : 23.3 sq.ft.lb |
| LRC | : 6.4 | Duty cycle | : Cont.(S1) |
| Rated torque | : 221 ft.lb | Insulation class | : F |
| Locked rotor torque | : 240 % | Service factor | : 1.25 |
| Breakdown torque | : 260 % | Temperature rise | : 80 K |
| Rated speed | : 1780 rpm | Design | : B |

Locked rotor time : 25s (cold) 14s (hot)

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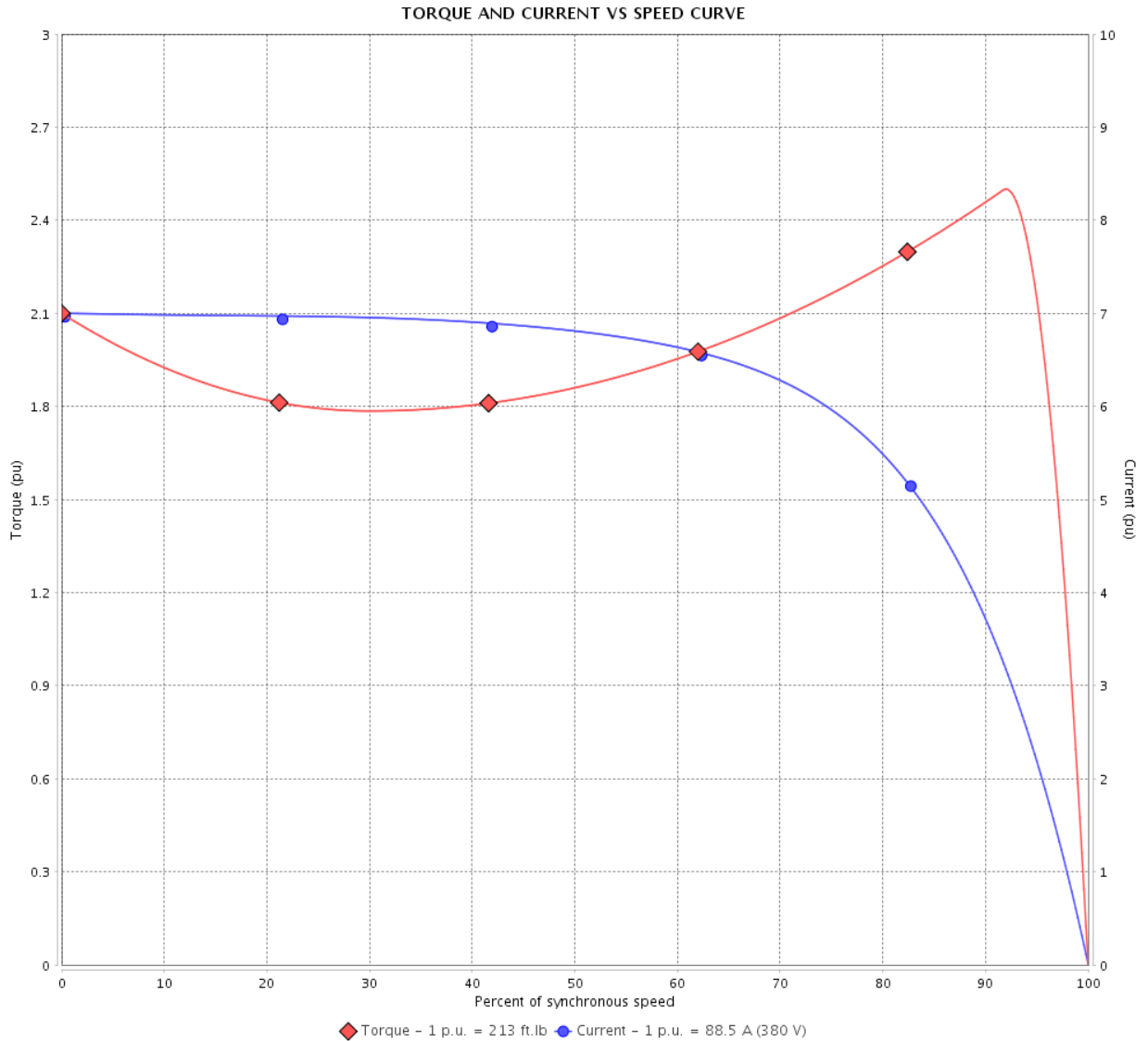
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Performance : 380 V 50 Hz 4P IE3

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|---------------------|-------------|-----------------------|-----------------|
| Rated current | : 88.5 A | Moment of inertia (J) | : 23.3 sq.ft.lb |
| LRC | : 7.0 | Duty cycle | : Cont.(S1) |
| Rated torque | : 213 ft.lb | Insulation class | : F |
| Locked rotor torque | : 210 % | Service factor | : 1.00 |
| Breakdown torque | : 250 % | Temperature rise | : 80 K |
| Rated speed | : 1480 rpm | Design | : B |

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

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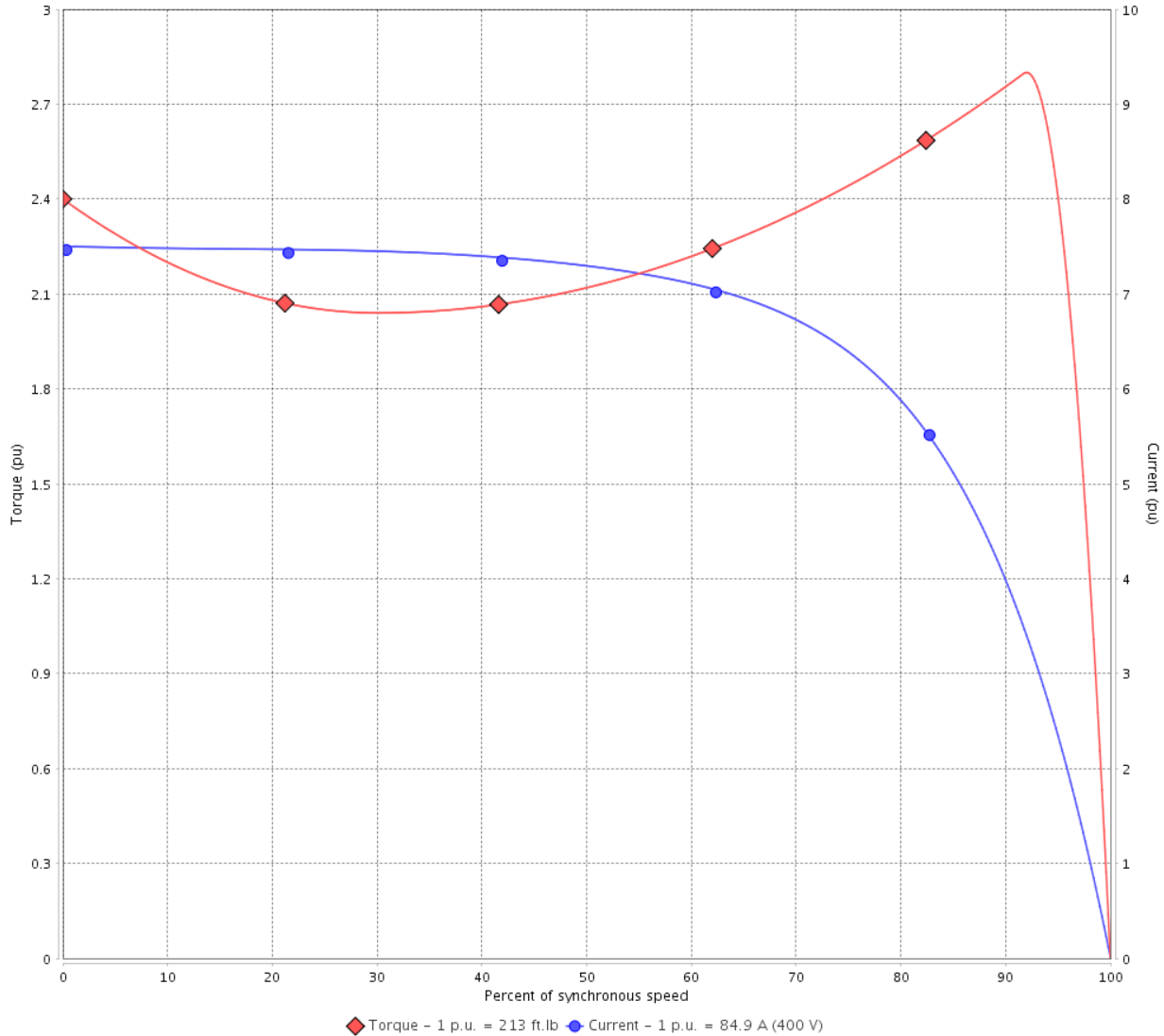
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TORQUE AND CURRENT VS SPEED CURVE



Performance : 400 V 50 Hz 4P IE3

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|---------------------|-------------|-----------------------|-----------------|
| Rated current | : 84.9 A | Moment of inertia (J) | : 23.3 sq.ft.lb |
| LRC | : 7.5 | Duty cycle | : Cont.(S1) |
| Rated torque | : 213 ft.lb | Insulation class | : F |
| Locked rotor torque | : 240 % | Service factor | : 1.00 |
| Breakdown torque | : 280 % | Temperature rise | : 80 K |
| Rated speed | : 1480 rpm | Design | : B |

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

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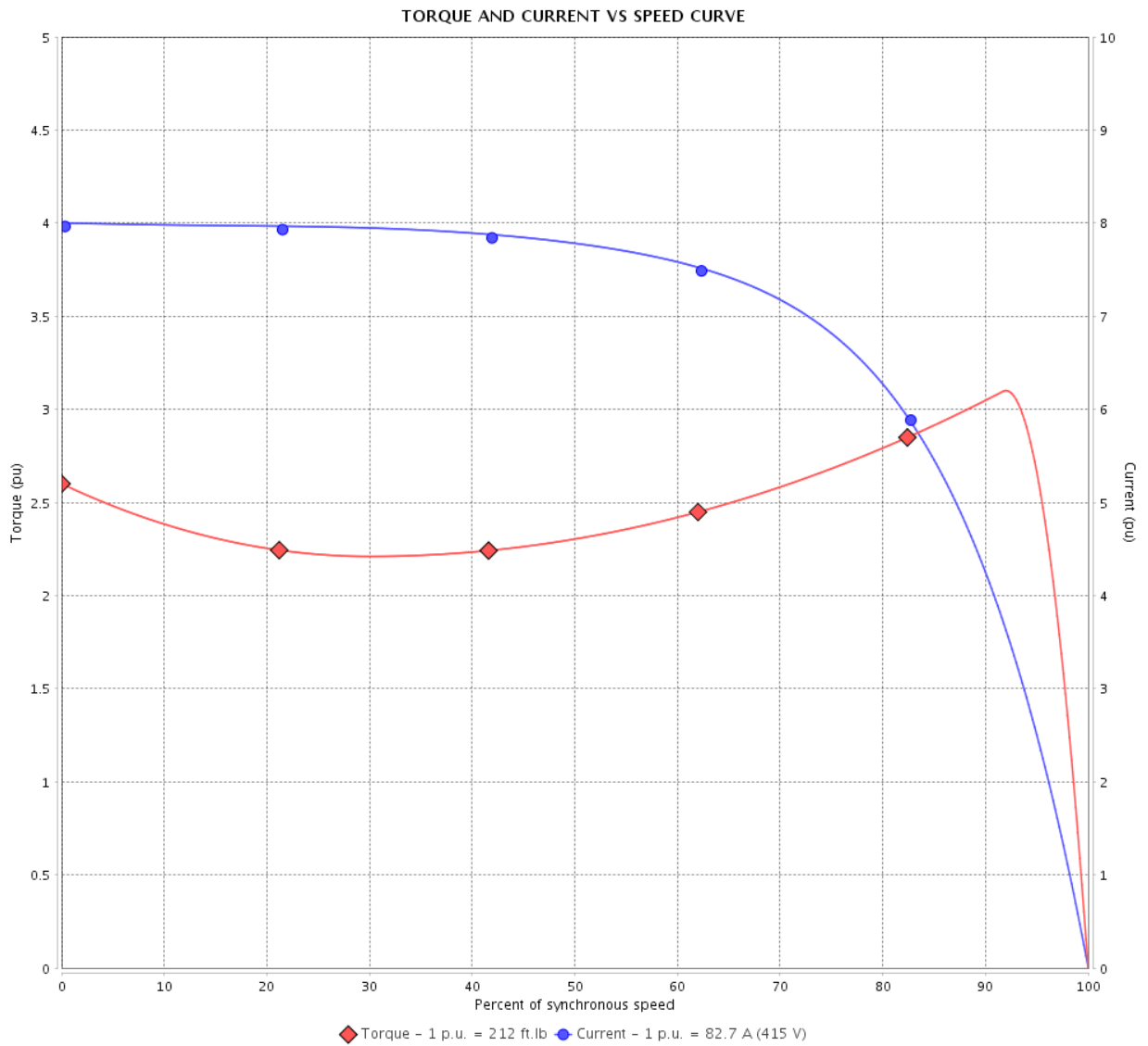
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|---------------------|-------------|-----------------------|-----------------|
| Rated current | : 82.7 A | Moment of inertia (J) | : 23.3 sq.ft.lb |
| LRC | : 8.0 | Duty cycle | : Cont.(S1) |
| Rated torque | : 212 ft.lb | Insulation class | : F |
| Locked rotor torque | : 260 % | Service factor | : 1.00 |
| Breakdown torque | : 310 % | Temperature rise | : 80 K |
| Rated speed | : 1485 rpm | Design | : B |

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

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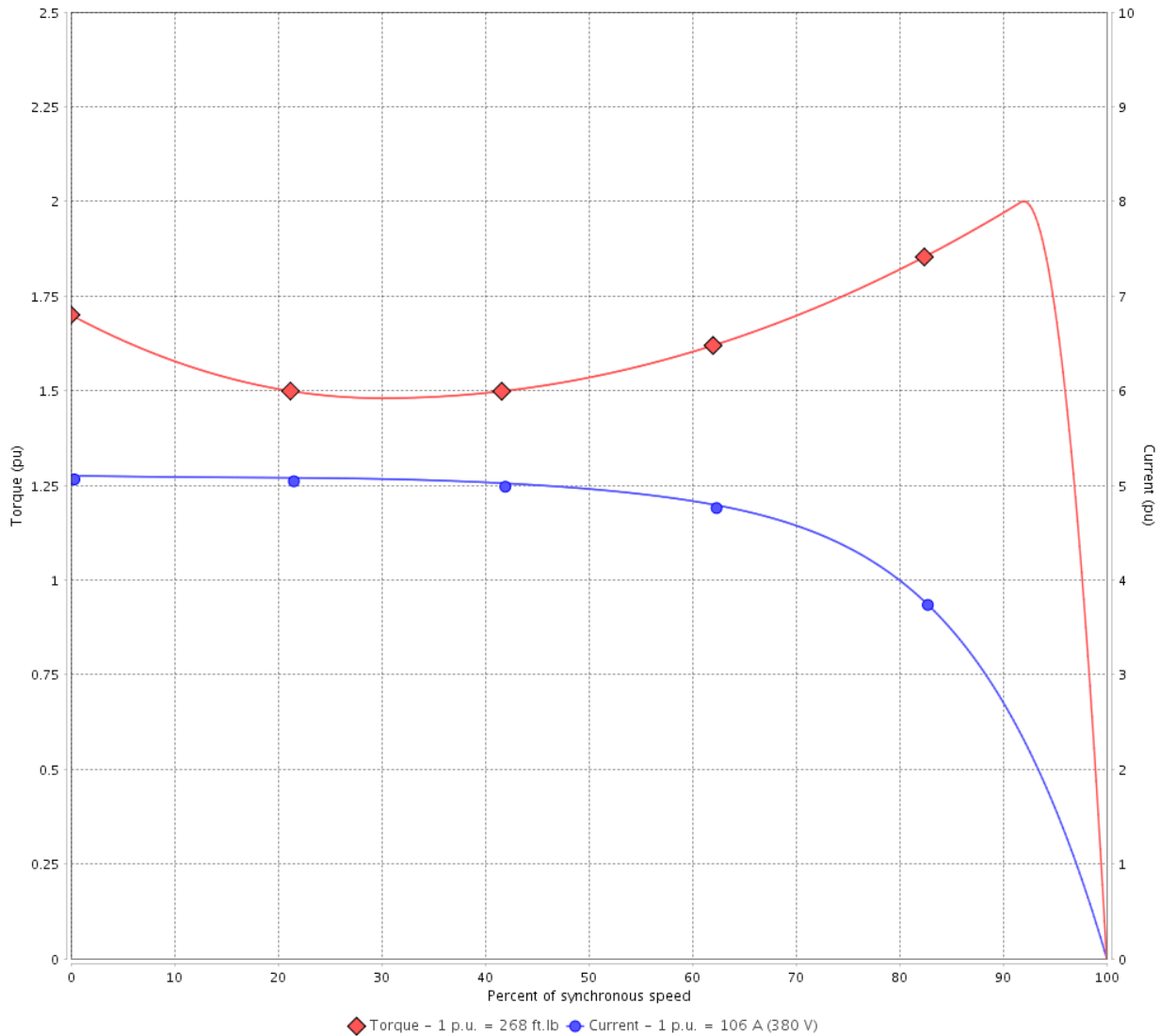
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TORQUE AND CURRENT VS SPEED CURVE



Performance : 380 V 50 Hz 4P IE2

| | | | |
|---------------------|-------------|-----------------------|-----------------|
| Rated current | : 106 A | Moment of inertia (J) | : 23.3 sq.ft.lb |
| LRC | : 5.1 | Duty cycle | : Cont.(S1) |
| Rated torque | : 268 ft.lb | Insulation class | : F |
| Locked rotor torque | : 170 % | Service factor | : 1.00 |
| Breakdown torque | : 200 % | Temperature rise | : 105 K |
| Rated speed | : 1470 rpm | Design | : B |

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

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TORQUE AND CURRENT VS SPEED CURVE



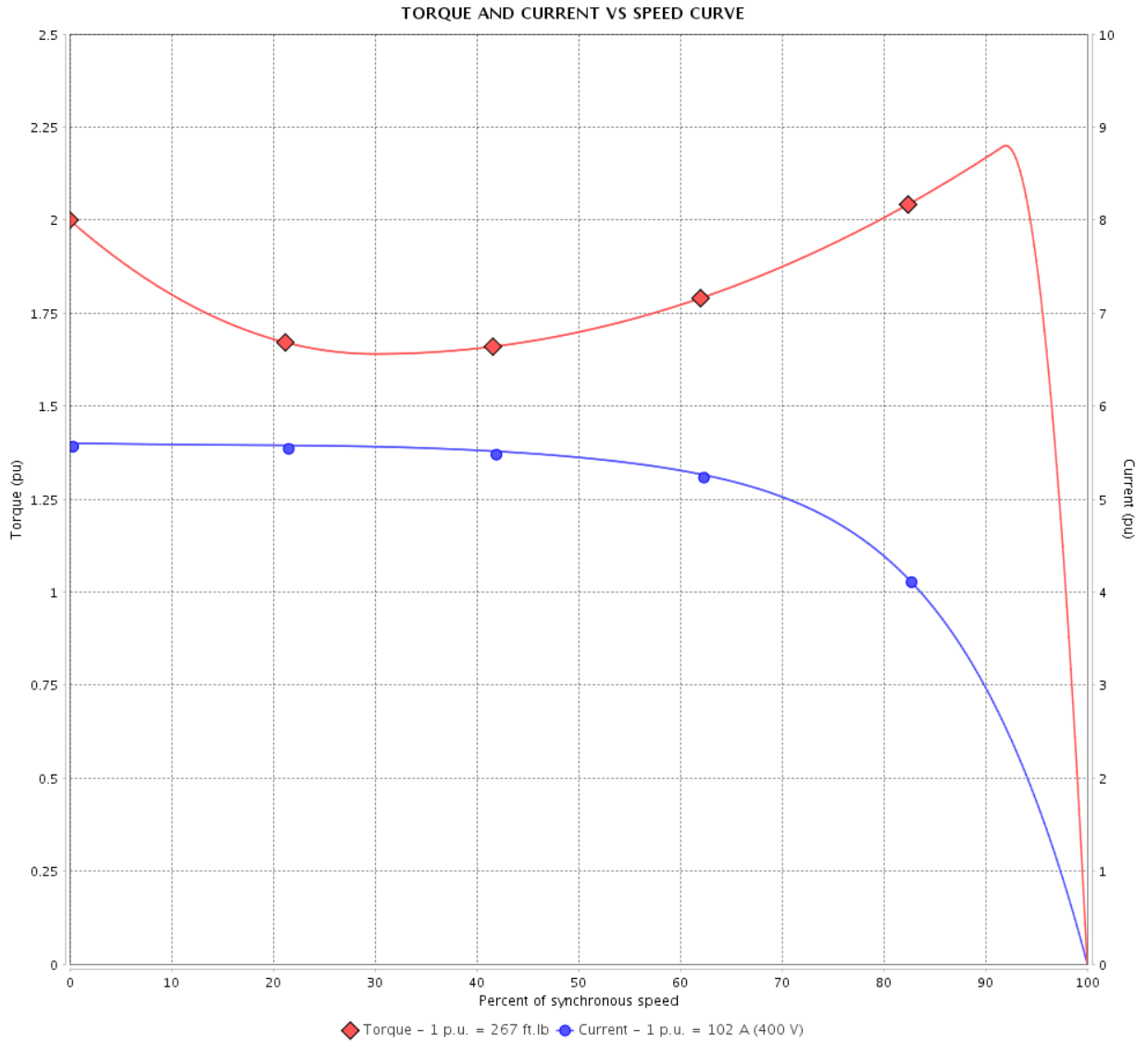
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Performance : 400 V 50 Hz 4P IE2

| | | | |
|---------------------|-------------|-----------------------|-----------------|
| Rated current | : 102 A | Moment of inertia (J) | : 23.3 sq.ft.lb |
| LRC | : 5.6 | Duty cycle | : Cont.(S1) |
| Rated torque | : 267 ft.lb | Insulation class | : F |
| Locked rotor torque | : 200 % | Service factor | : 1.00 |
| Breakdown torque | : 220 % | Temperature rise | : 105 K |
| Rated speed | : 1475 rpm | Design | : B |

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

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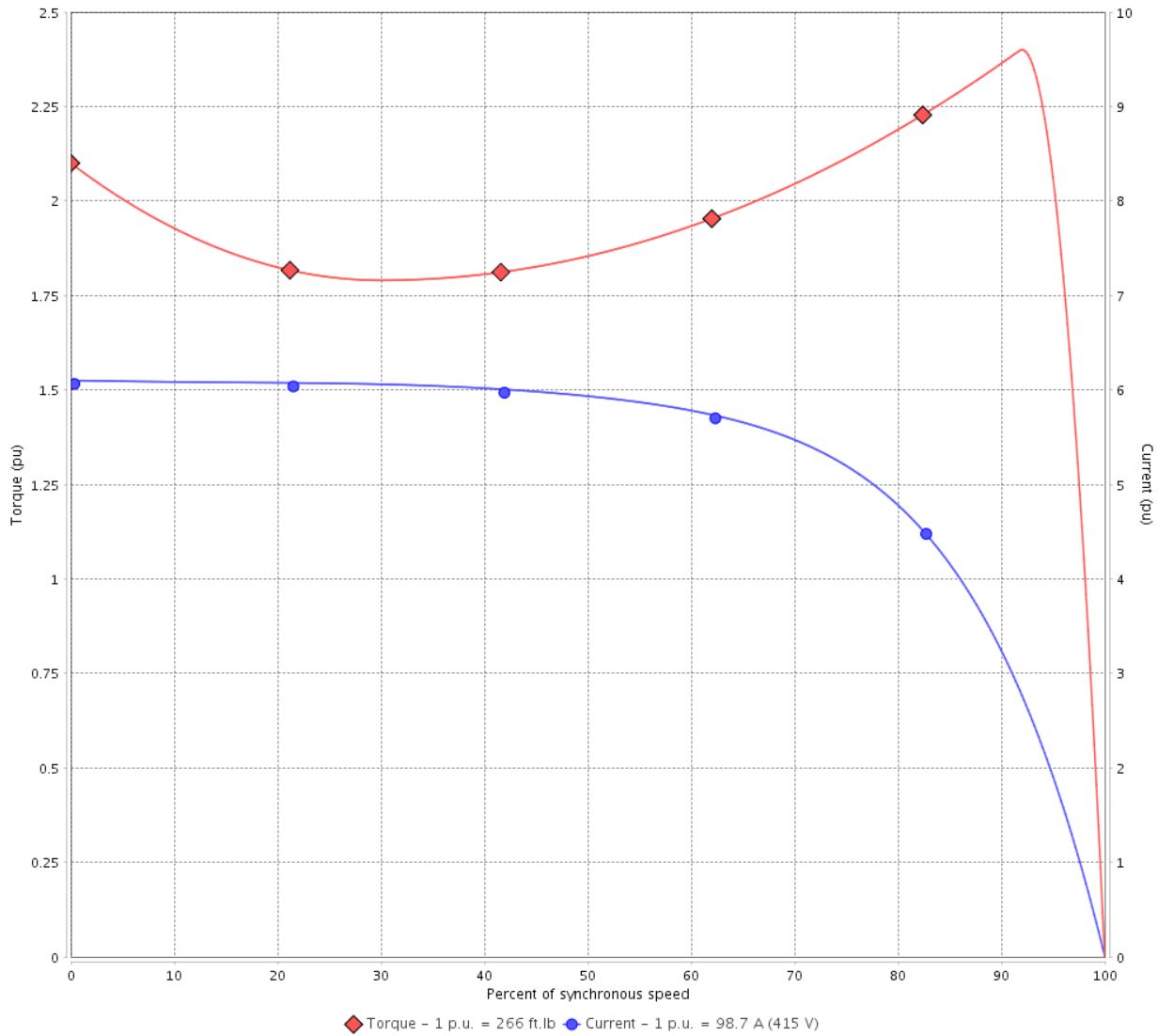
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Performance : 415 V 50 Hz 4P IE2

| | | | |
|---------------------|-------------|-----------------------|-----------------|
| Rated current | : 98.7 A | Moment of inertia (J) | : 23.3 sq.ft.lb |
| LRC | : 6.1 | Duty cycle | : Cont.(S1) |
| Rated torque | : 266 ft.lb | Insulation class | : F |
| Locked rotor torque | : 210 % | Service factor | : 1.00 |
| Breakdown torque | : 240 % | Temperature rise | : 105 K |
| Rated speed | : 1480 rpm | Design | : B |

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

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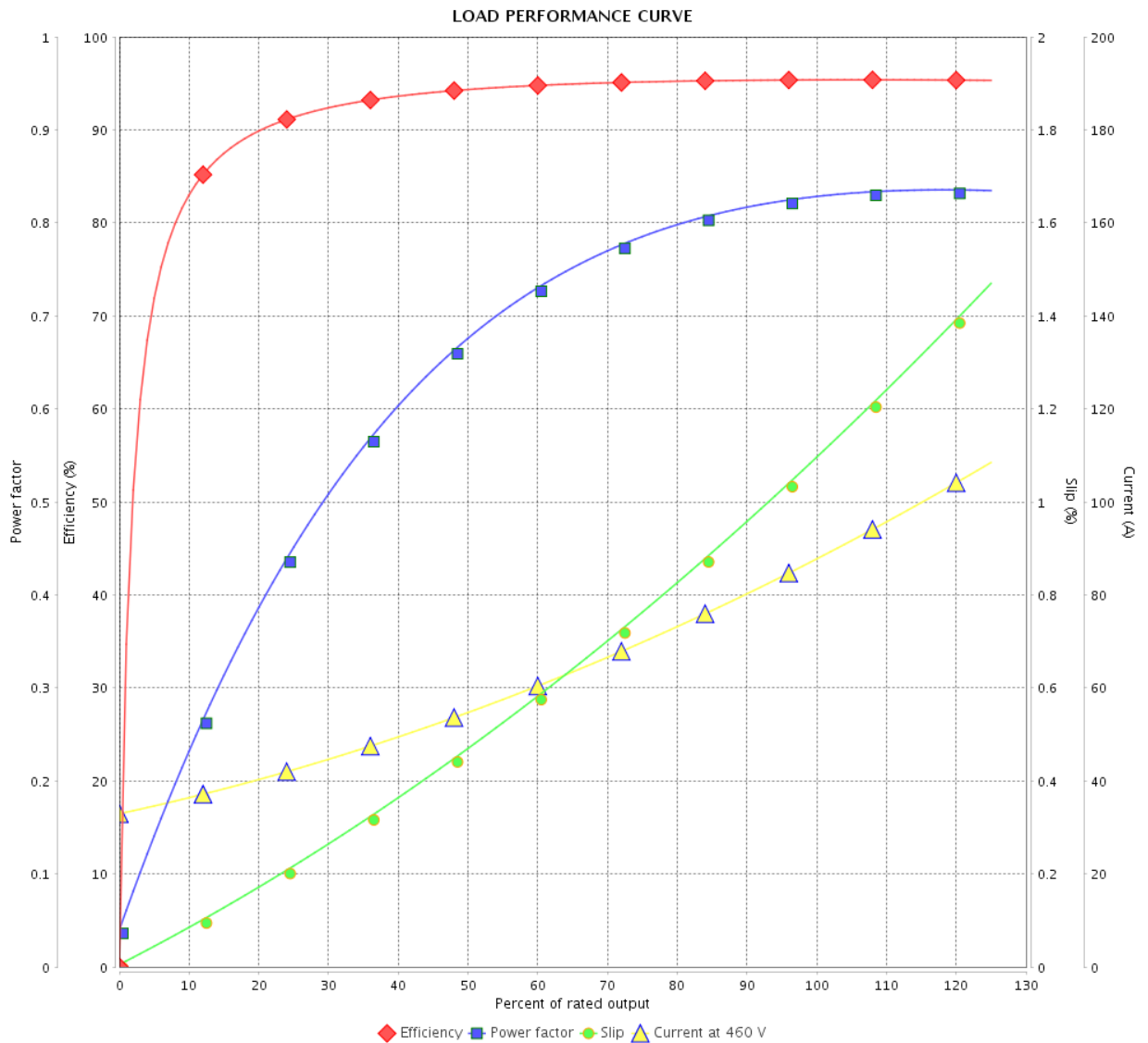


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Performance : 460 V 60 Hz 4P

Rated current : 87.2 A
 LRC : 6.4
 Rated torque : 221 ft.lb
 Locked rotor torque : 240 %
 Breakdown torque : 260 %
 Rated speed : 1780 rpm

Moment of inertia (J) : 23.3 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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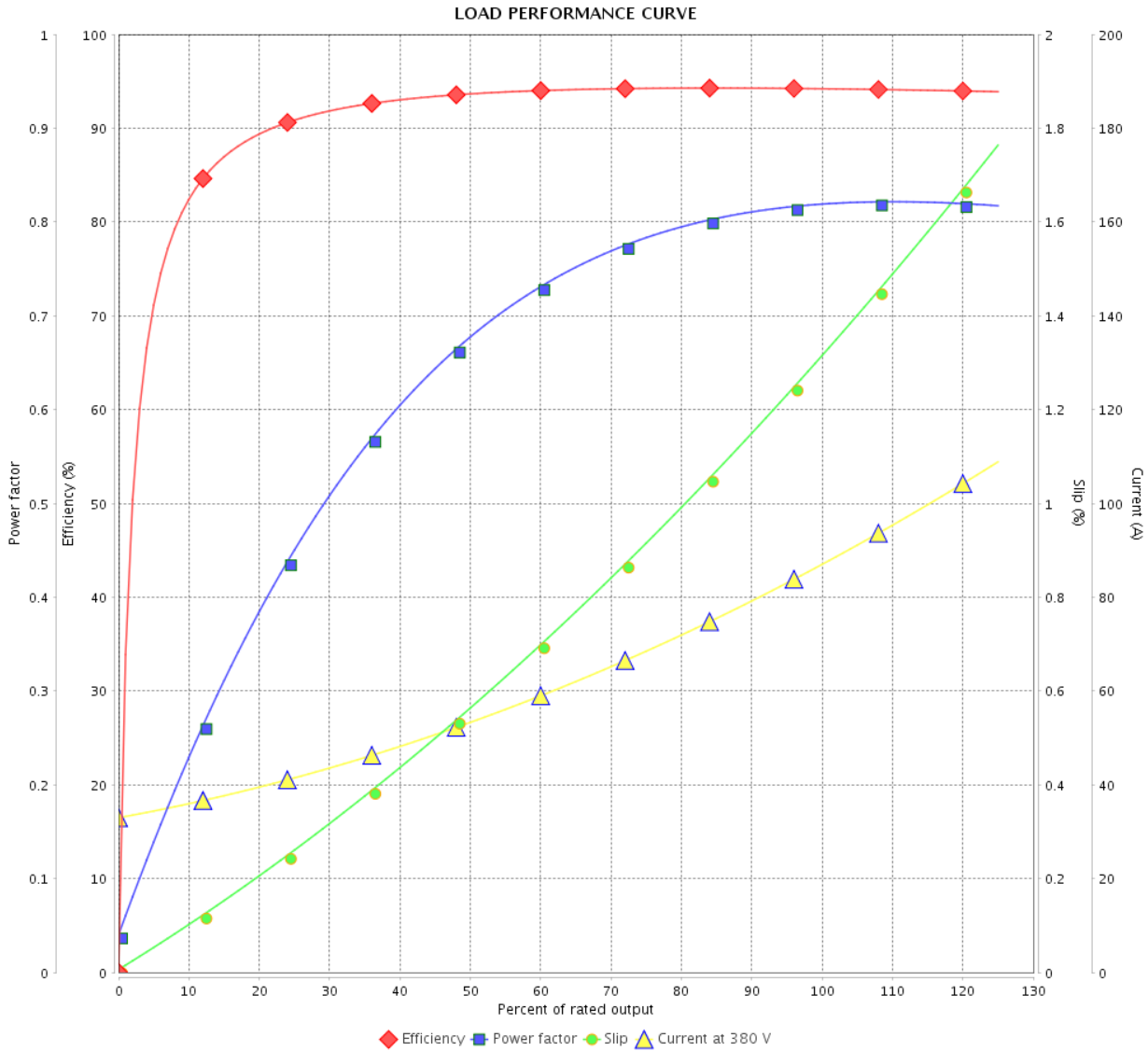


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Performance : 380 V 50 Hz 4P IE3

Rated current : 88.5 A
 LRC : 7.0
 Rated torque : 213 ft.lb
 Locked rotor torque : 210 %
 Breakdown torque : 250 %
 Rated speed : 1480 rpm

Moment of inertia (J) : 23.3 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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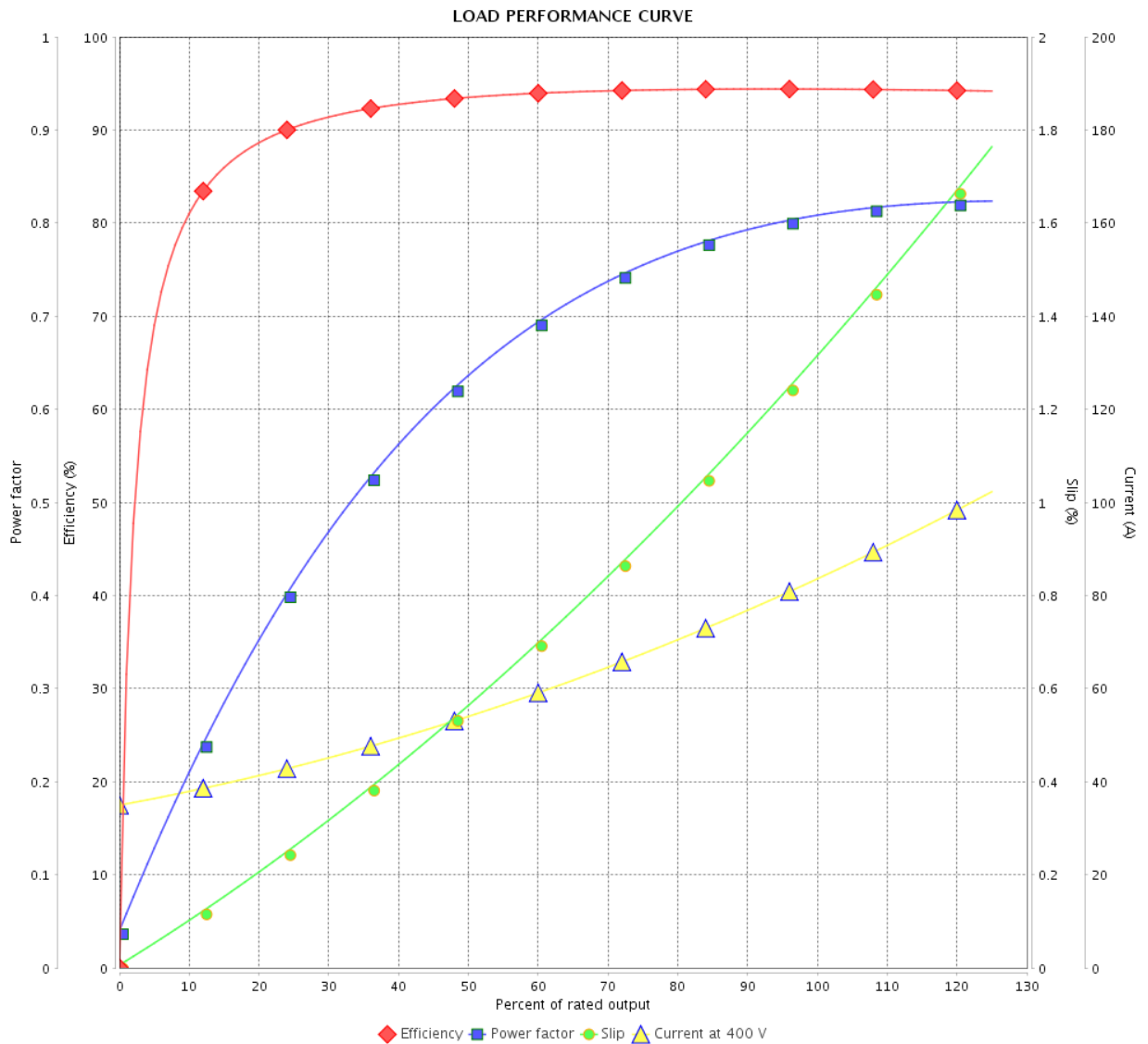


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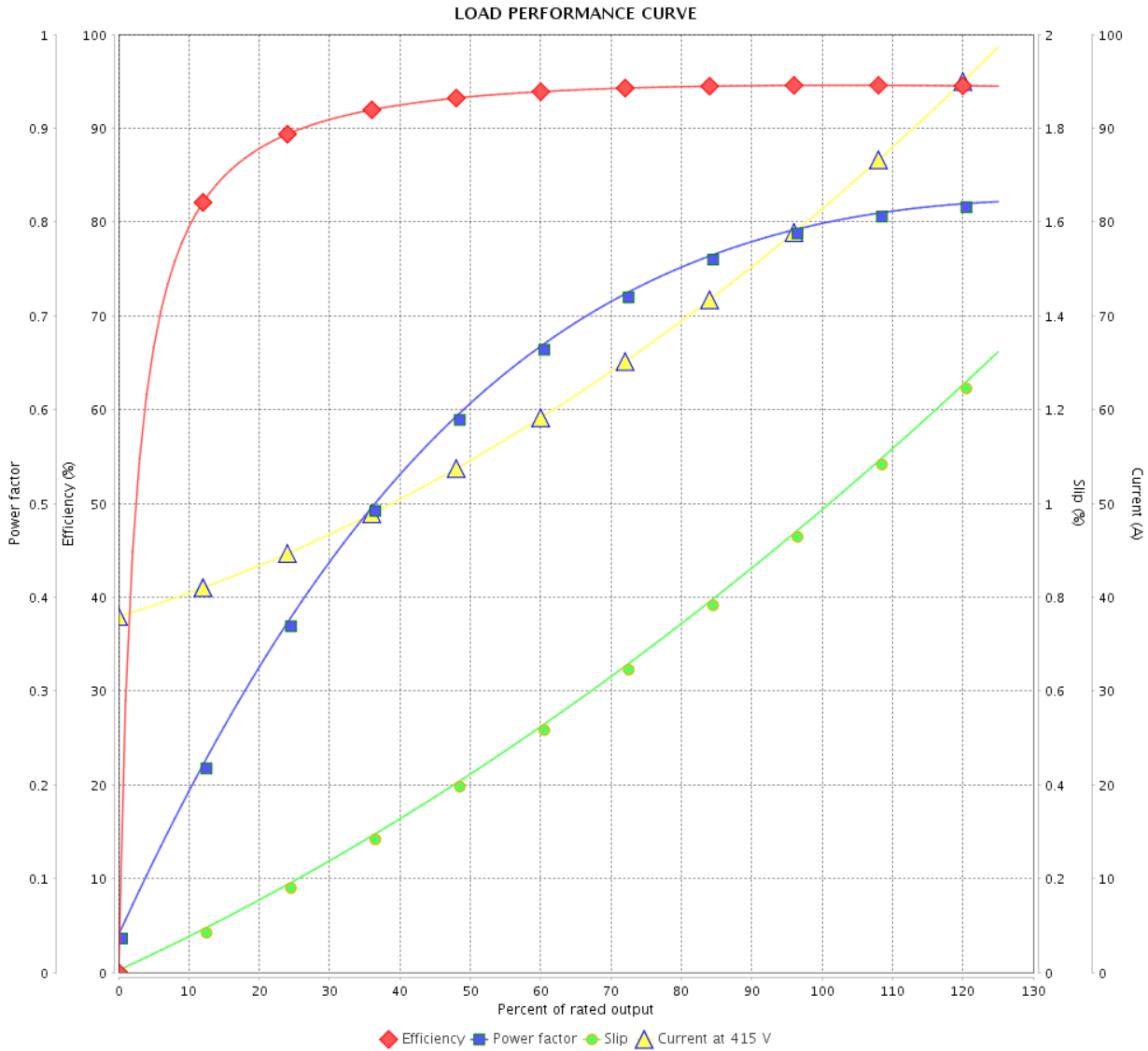


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 Insulation class : F
 Service factor : 1.00
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Three Phase Induction Motor - Squirrel Cage

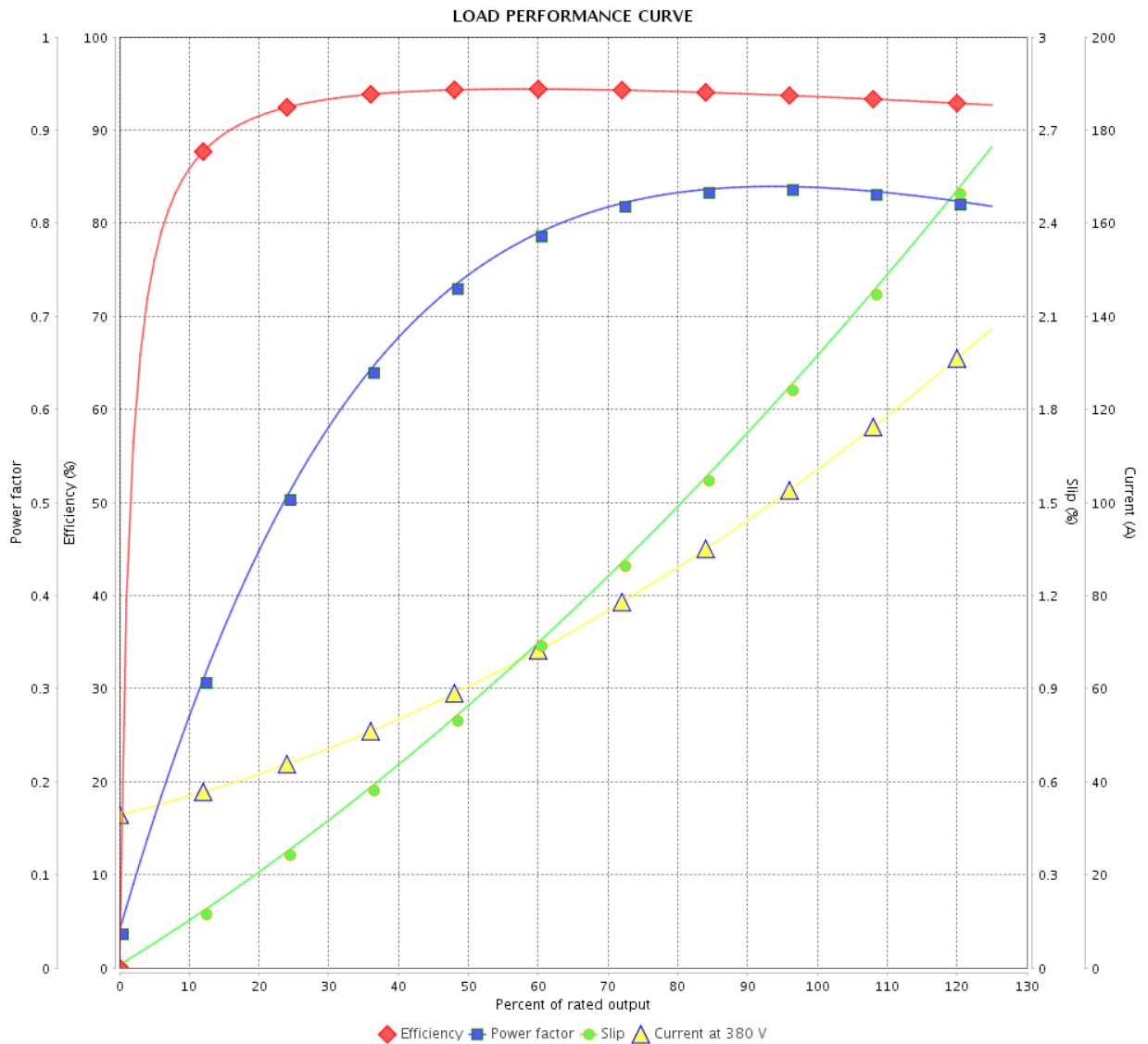


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Performance : 380 V 50 Hz 4P IE2

Rated current : 106 A
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 Locked rotor torque : 170 %
 Breakdown torque : 200 %
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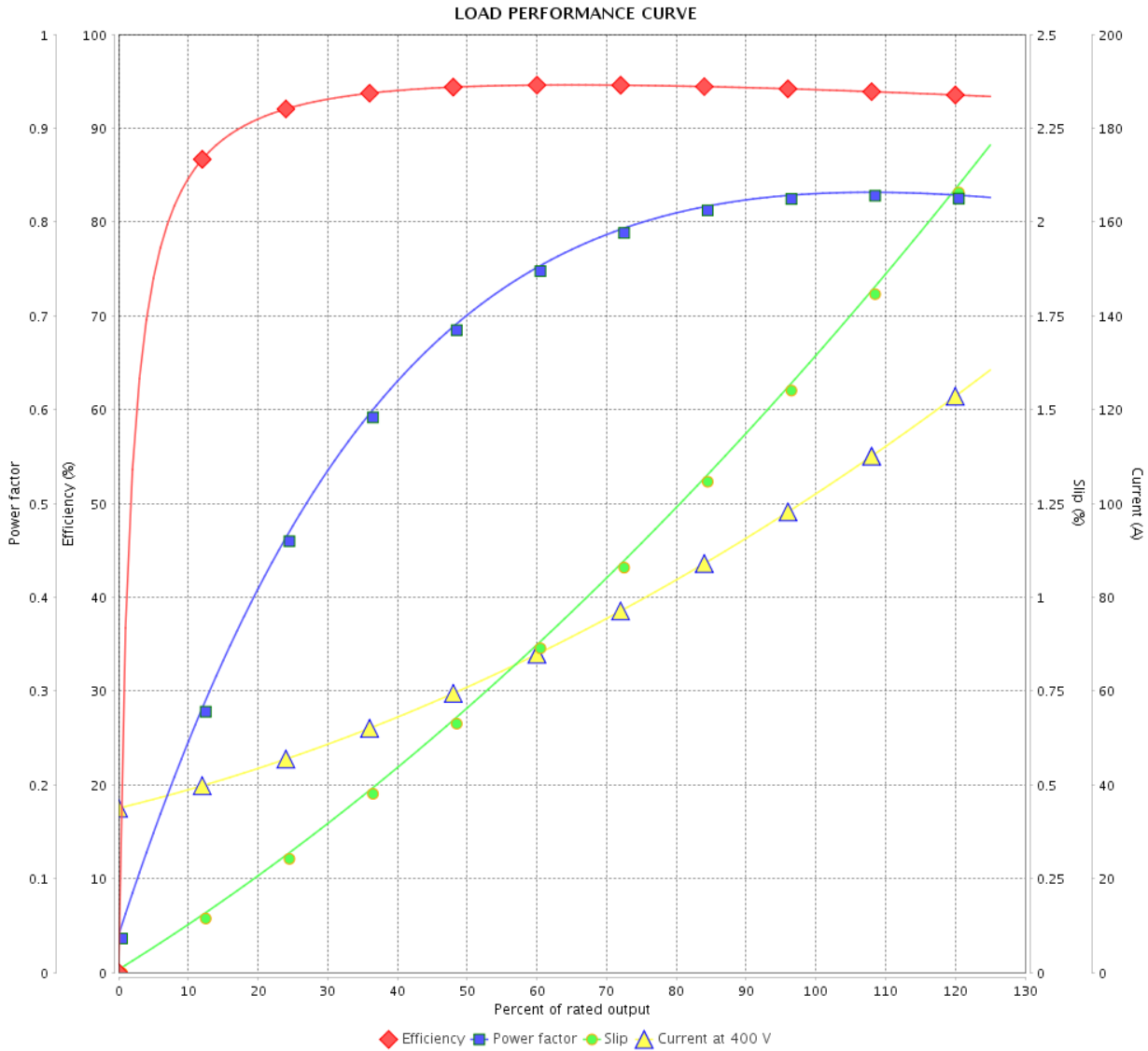


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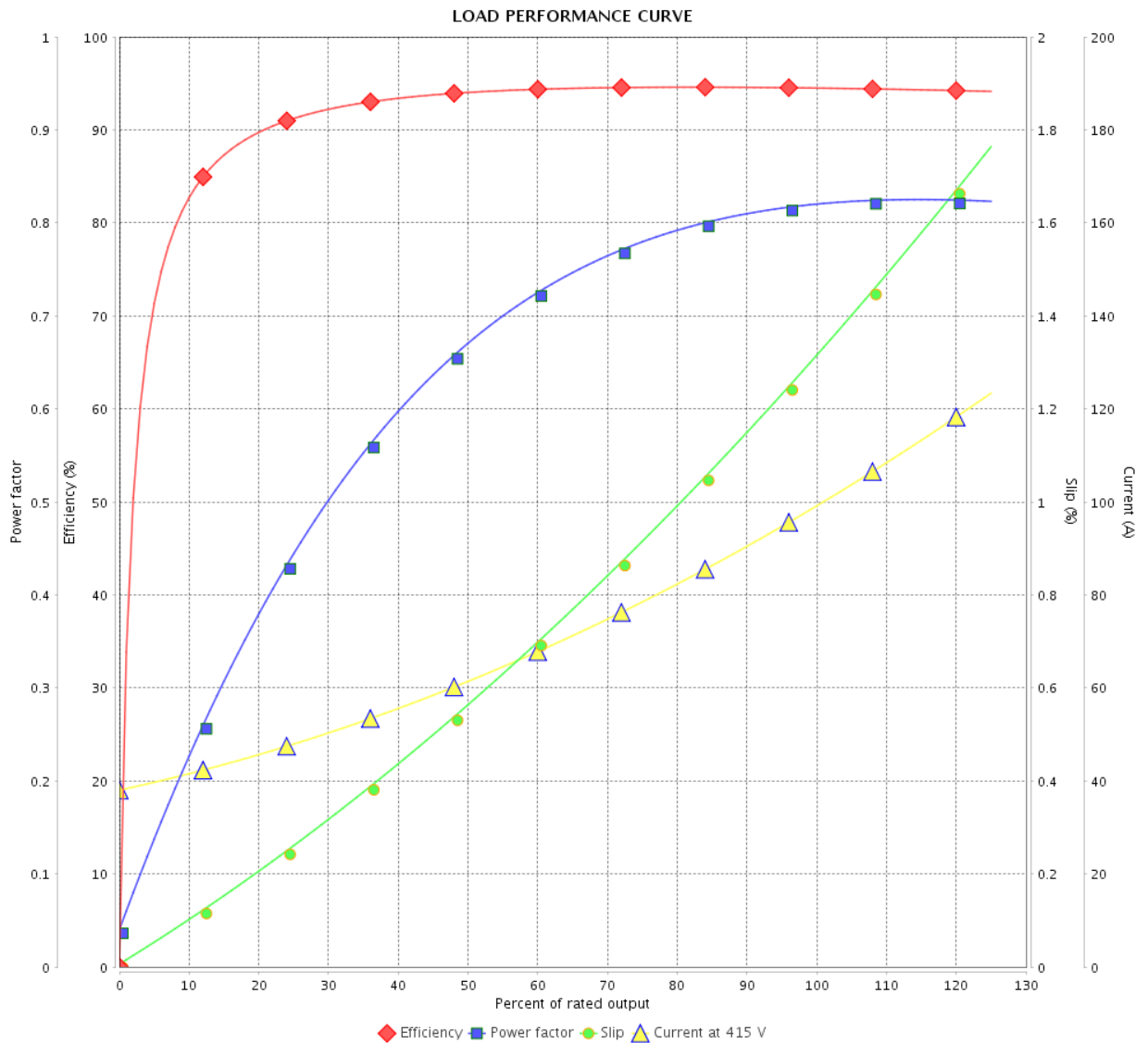


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Performance : 415 V 50 Hz 4P IE2

Rated current : 98.7 A
 LRC : 6.1
 Rated torque : 266 ft.lb
 Locked rotor torque : 210 %
 Breakdown torque : 240 %
 Rated speed : 1480 rpm

Moment of inertia (J) : 23.3 sq.ft.lb
 Duty cycle : Cont.(S1)
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THERMAL LIMIT CURVE



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Heating constant

Cooling constant

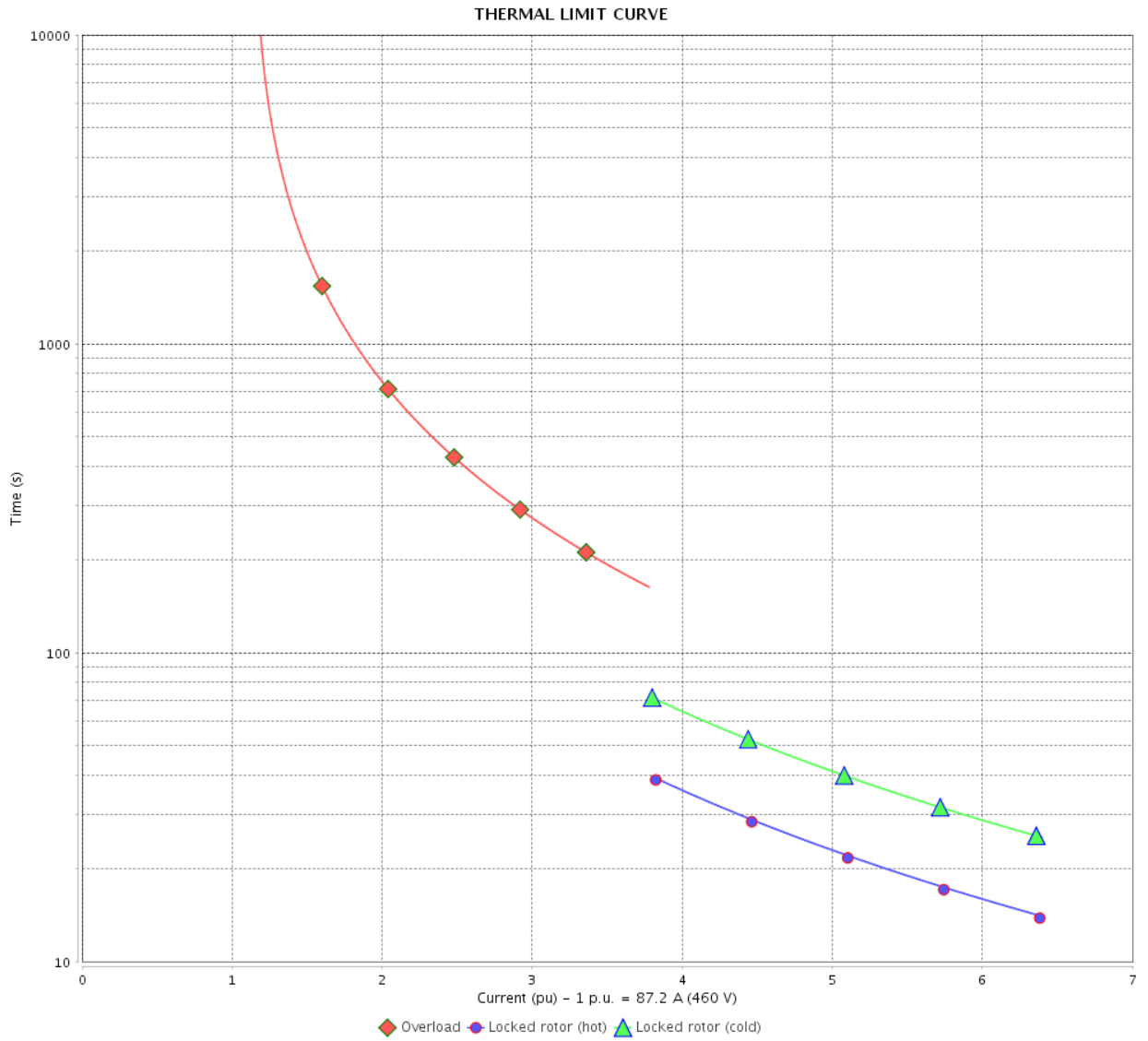
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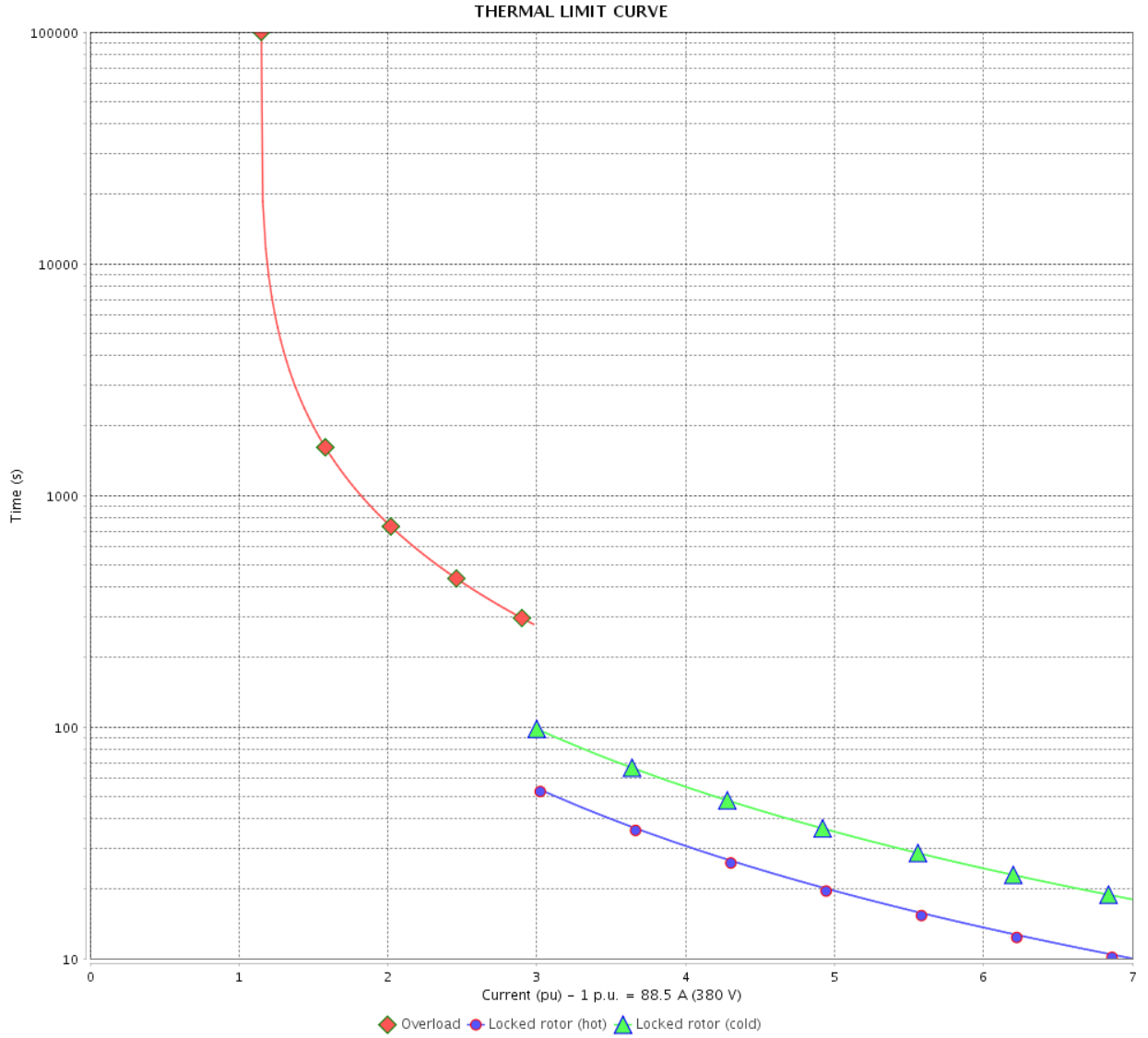
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Heating constant

Cooling constant

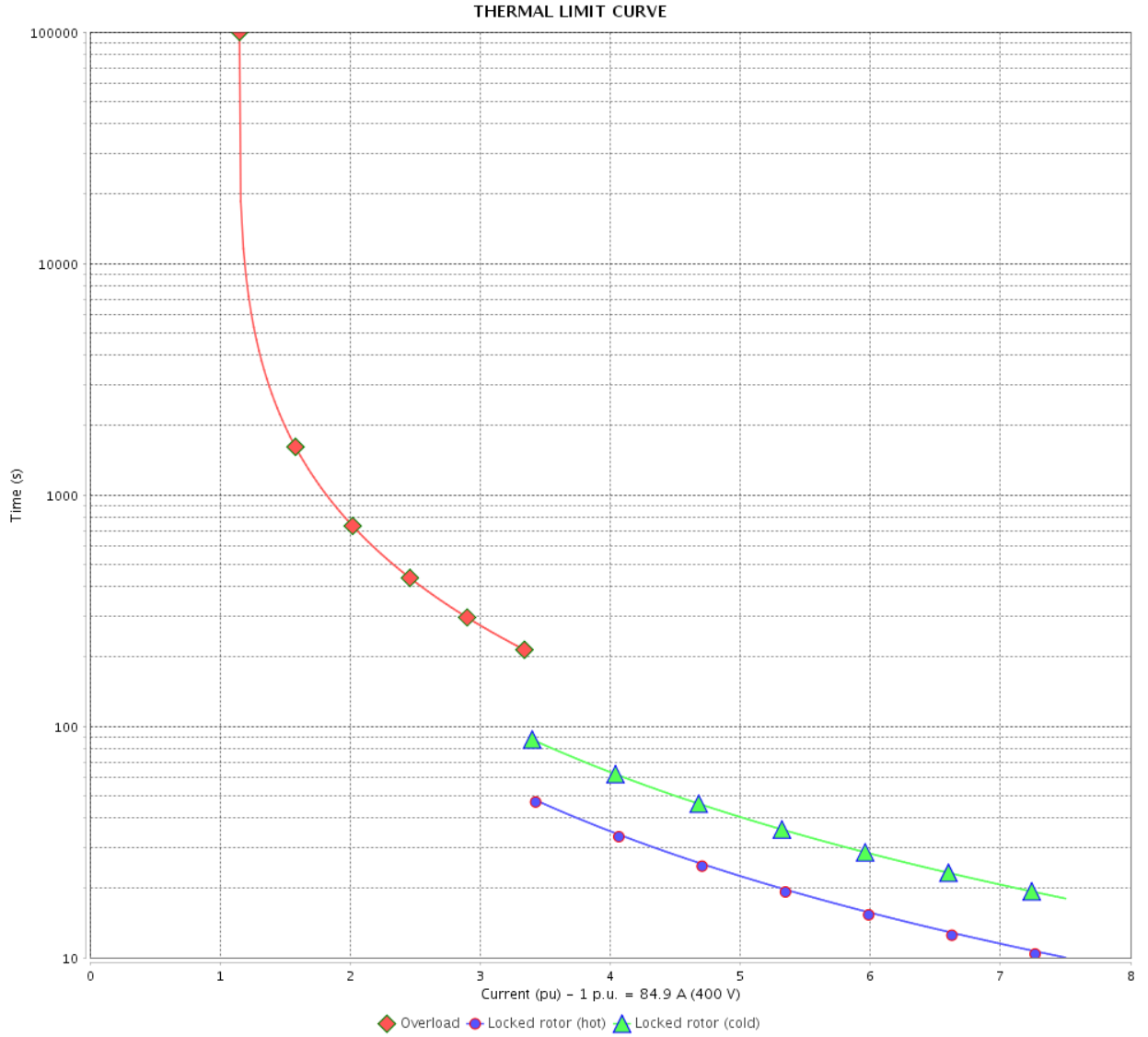
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|--------------|-----------------|-----------|-----------------|----------|
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| Performed by | | | | |
| Checked by | | | | |
| Date | 13/04/2022 | | Page 20 / 36 | Revision |

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



| Rev. | Changes Summary | Performed | Checked | Date |
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| | | | | |
| Performed by | | Page 21 / 36 | | Revision |
| Checked by | | | | |
| Date | | | | |

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase
Product code : 11356015
Catalog # : 07518ET3G365T-W22

Performance : 415 V 50 Hz 4P IE3

| | | | |
|---------------------|-------------|-----------------------|-----------------|
| Rated current | : 82.7 A | Moment of inertia (J) | : 23.3 sq.ft.lb |
| LRC | : 8.0 | Duty cycle | : Cont.(S1) |
| Rated torque | : 212 ft.lb | Insulation class | : F |
| Locked rotor torque | : 260 % | Service factor | : 1.00 |
| Breakdown torque | : 310 % | Temperature rise | : 80 K |
| Rated speed | : 1485 rpm | Design | : B |

Heating constant

Cooling constant

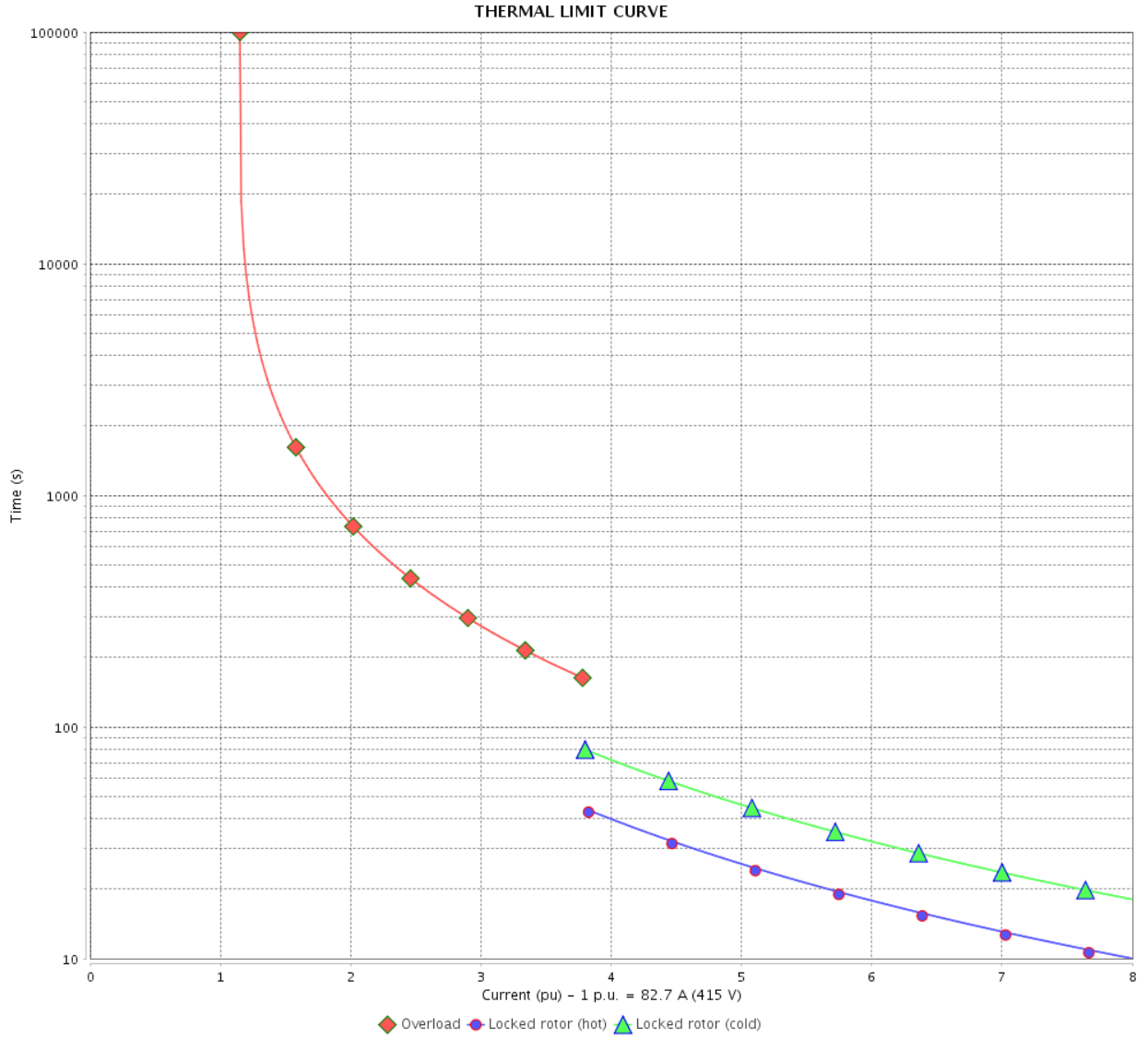
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| Checked by | | | Page | Revision |
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase
Product code : 11356015
Catalog # : 07518ET3G365T-W22

Performance : 380 V 50 Hz 4P IE2

| | | | |
|---------------------|-------------|-----------------------|-----------------|
| Rated current | : 106 A | Moment of inertia (J) | : 23.3 sq.ft.lb |
| LRC | : 5.1 | Duty cycle | : Cont.(S1) |
| Rated torque | : 268 ft.lb | Insulation class | : F |
| Locked rotor torque | : 170 % | Service factor | : 1.00 |
| Breakdown torque | : 200 % | Temperature rise | : 105 K |
| Rated speed | : 1470 rpm | Design | : B |

Heating constant

Cooling constant

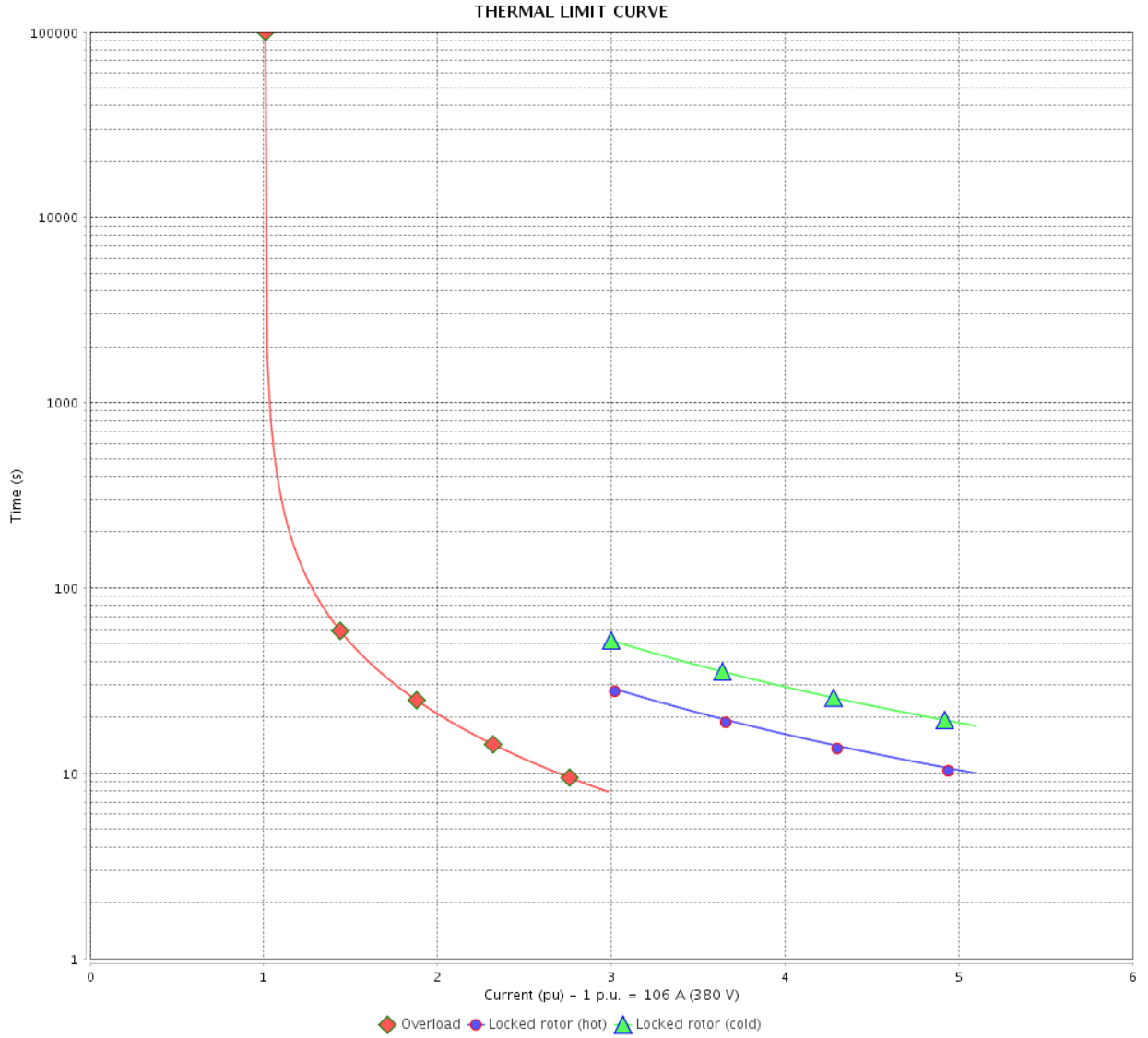
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THERMAL LIMIT CURVE

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 : 11356015
Catalog # : 07518ET3G365T-W22

Performance : 400 V 50 Hz 4P IE2

| | | | |
|---------------------|-------------|-----------------------|-----------------|
| Rated current | : 102 A | Moment of inertia (J) | : 23.3 sq.ft.lb |
| LRC | : 5.6 | Duty cycle | : Cont.(S1) |
| Rated torque | : 267 ft.lb | Insulation class | : F |
| Locked rotor torque | : 200 % | Service factor | : 1.00 |
| Breakdown torque | : 220 % | Temperature rise | : 105 K |
| Rated speed | : 1475 rpm | Design | : B |

Heating constant

Cooling constant

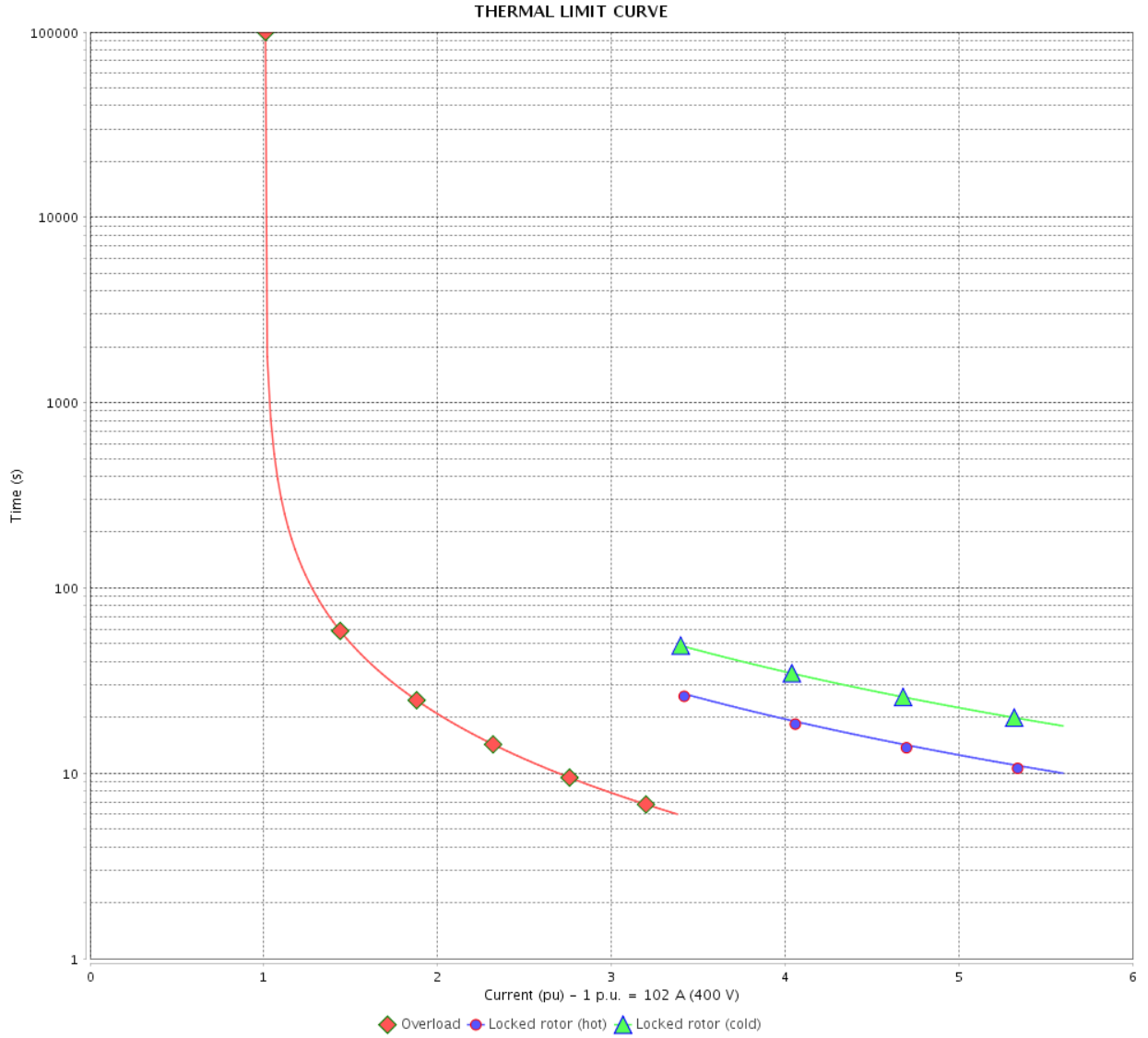
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| Checked by | | | Page | Revision |
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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| Checked by | | 27 / 36 | | |
| Date | | 13/04/2022 | | |

THERMAL LIMIT CURVE



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase
Product code : 11356015
Catalog # : 07518ET3G365T-W22

Performance : 415 V 50 Hz 4P IE2

| | | | |
|---------------------|-------------|-----------------------|-----------------|
| Rated current | : 98.7 A | Moment of inertia (J) | : 23.3 sq.ft.lb |
| LRC | : 6.1 | Duty cycle | : Cont.(S1) |
| Rated torque | : 266 ft.lb | Insulation class | : F |
| Locked rotor torque | : 210 % | Service factor | : 1.00 |
| Breakdown torque | : 240 % | Temperature rise | : 105 K |
| Rated speed | : 1480 rpm | Design | : B |

Heating constant

Cooling constant

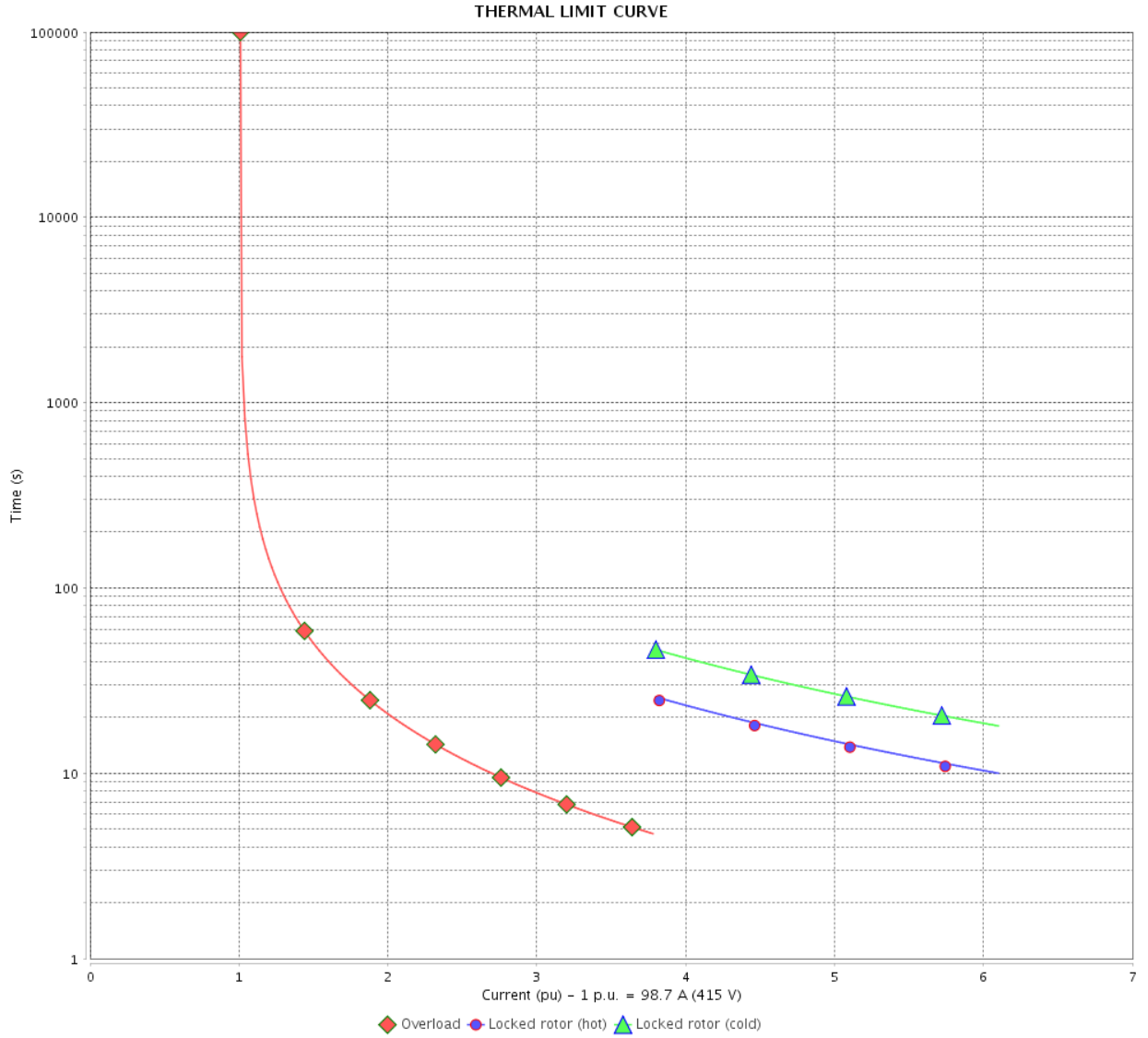
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| Checked by | | | Page | Revision |
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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| Date | | | | |

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



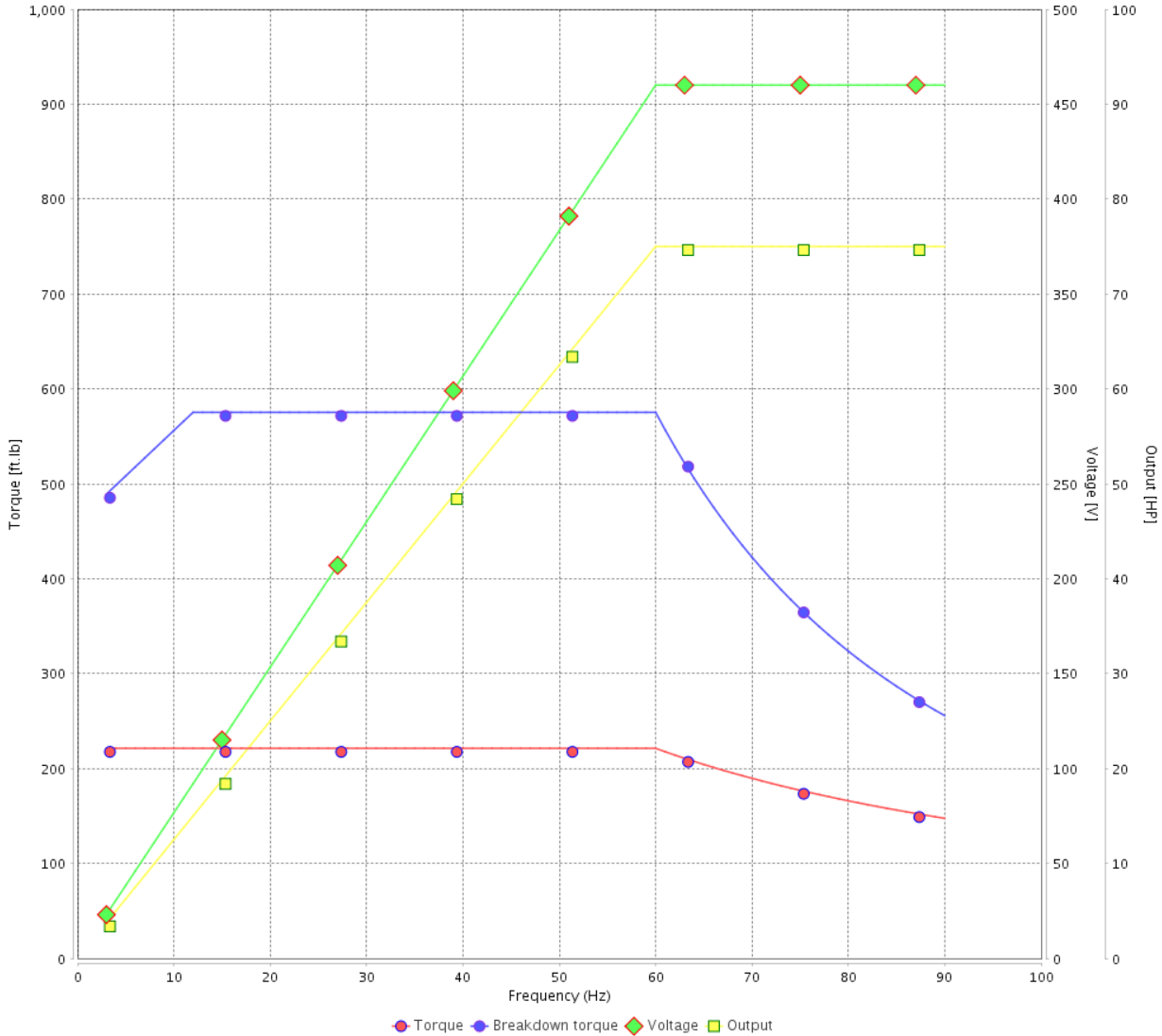
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11356015

Catalog # : 07518ET3G365T-W22

VFD OPERATION CURVE



Performance : 460 V 60 Hz 4P

Rated current : 87.2 A
 LRC : 6.4
 Rated torque : 221 ft.lb
 Locked rotor torque : 240 %
 Breakdown torque : 260 %
 Rated speed : 1780 rpm

Moment of inertia (J) : 23.3 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 |
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| Performed by | | | Page | Revision |
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

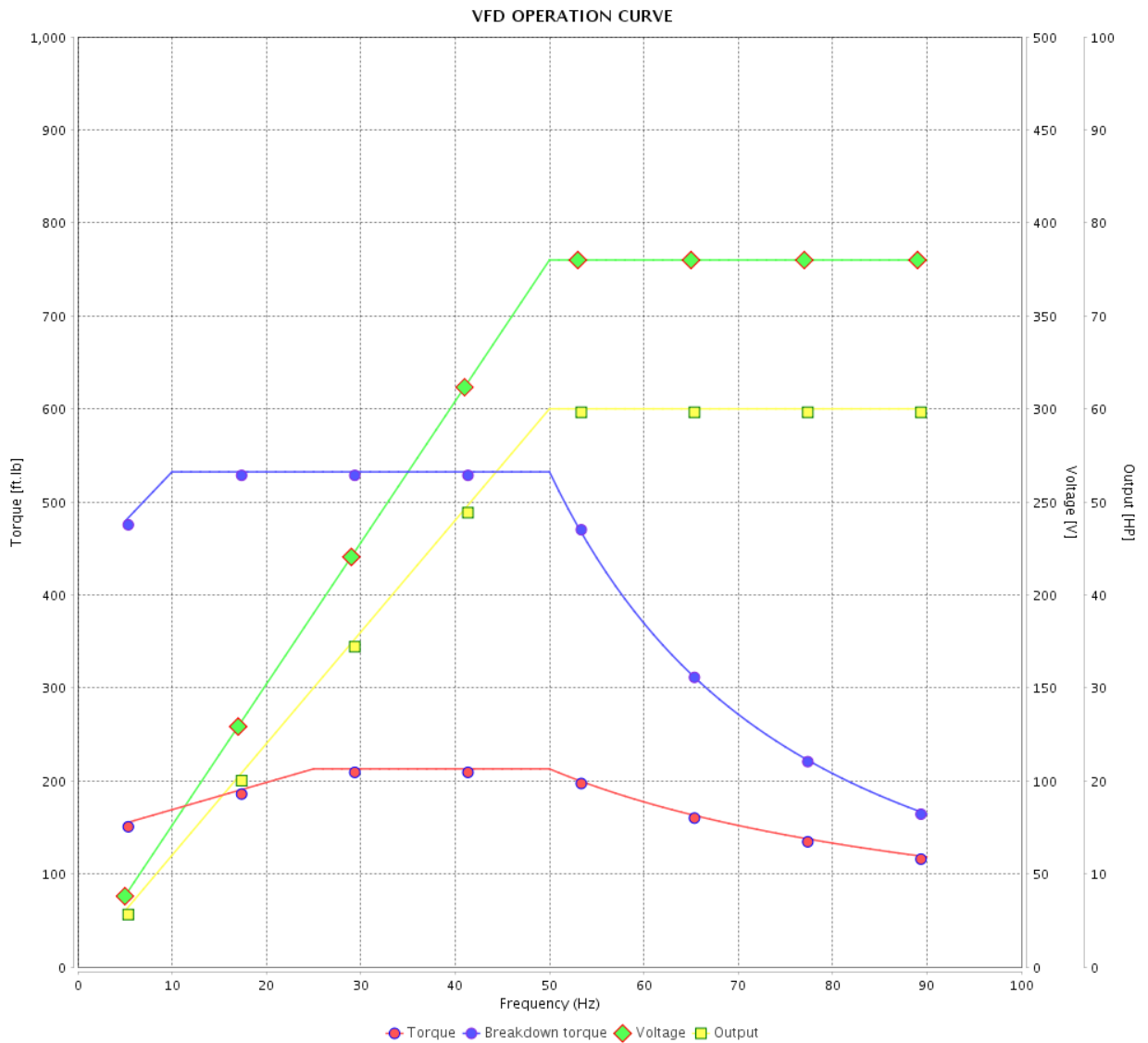


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11356015

Catalog # : 07518ET3G365T-W22



Performance : 380 V 50 Hz 4P IE3

Rated current : 88.5 A
 LRC : 7.0
 Rated torque : 213 ft.lb
 Locked rotor torque : 210 %
 Breakdown torque : 250 %
 Rated speed : 1480 rpm

Moment of inertia (J) : 23.3 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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| Performed by | | | | Page 31 / 36 |
| Checked by | | | | |
| Date | 13/04/2022 | | | |

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



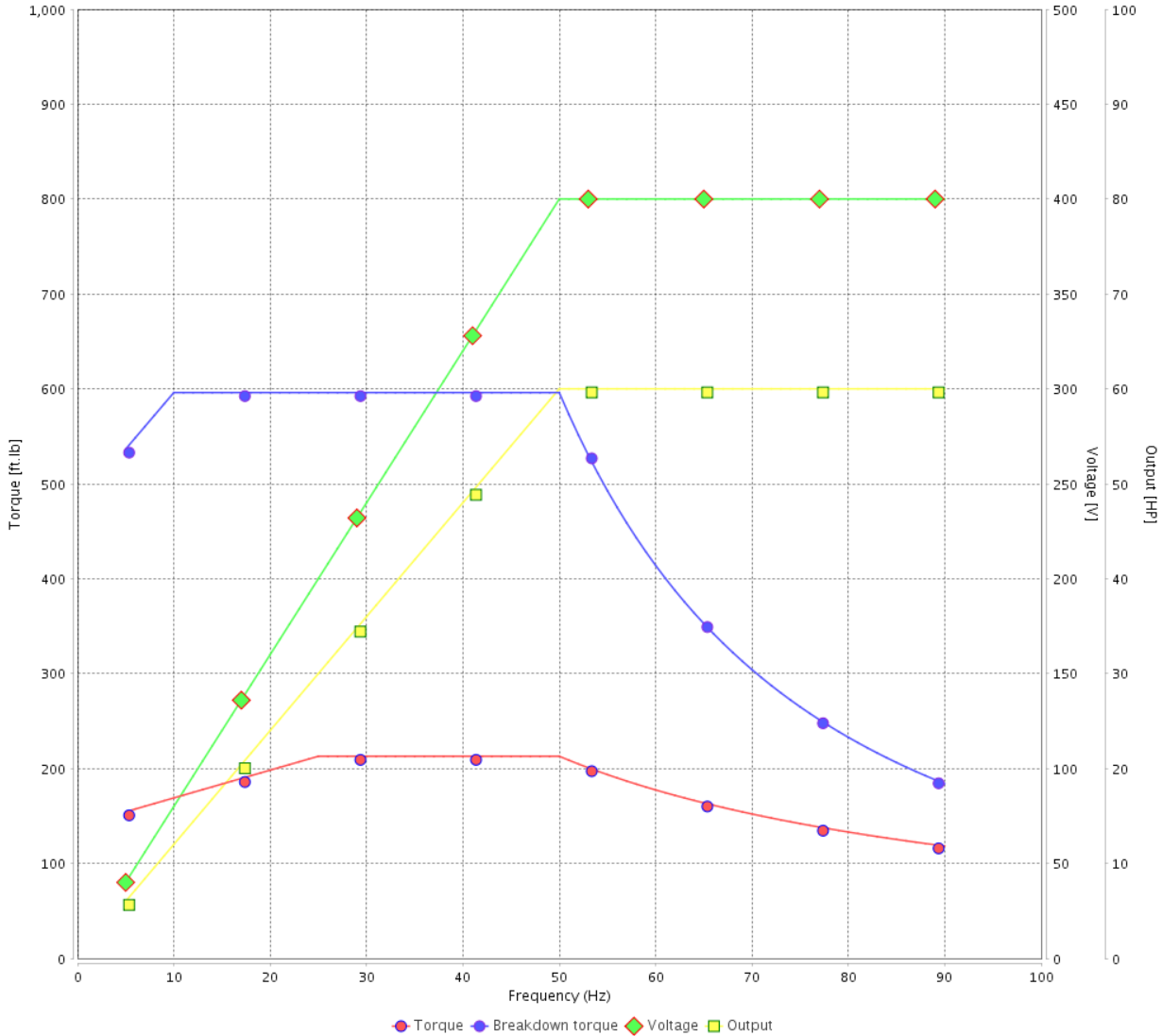
Customer : _____

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11356015

Catalog # : 07518ET3G365T-W22

VFD OPERATION CURVE



Performance : 400 V 50 Hz 4P IE3

Rated current : 84.9 A
 LRC : 7.5
 Rated torque : 213 ft.lb
 Locked rotor torque : 240 %
 Breakdown torque : 280 %
 Rated speed : 1480 rpm

Moment of inertia (J) : 23.3 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

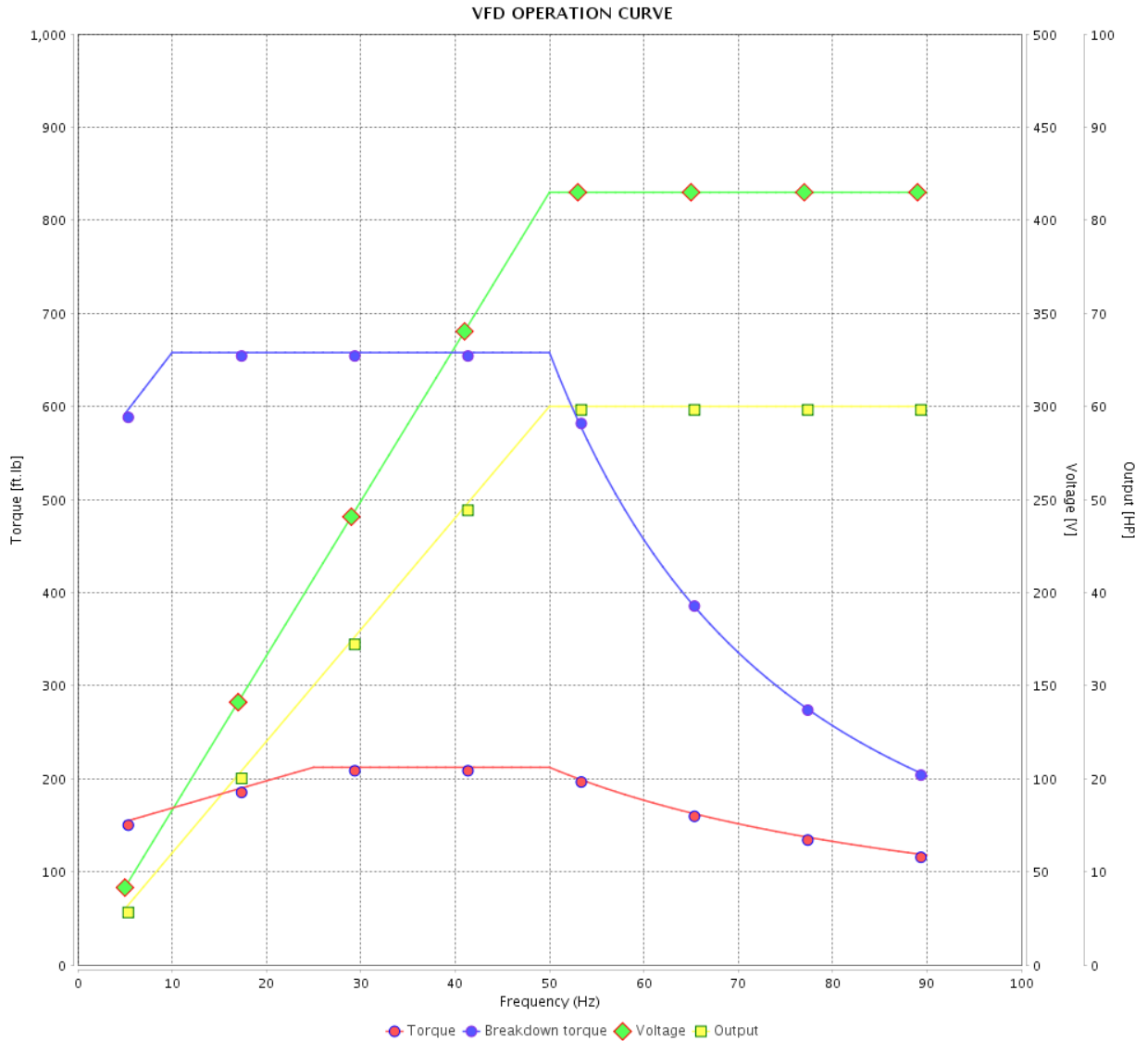


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11356015

Catalog # : 07518ET3G365T-W22



Performance : 415 V 50 Hz 4P IE3

Rated current : 82.7 A
 LRC : 8.0
 Rated torque : 212 ft.lb
 Locked rotor torque : 260 %
 Breakdown torque : 310 %
 Rated speed : 1485 rpm

Moment of inertia (J) : 23.3 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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| Performed by | | | Page 33 / 36 | Revision |
| Checked by | | | | |
| Date | 13/04/2022 | | | |

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



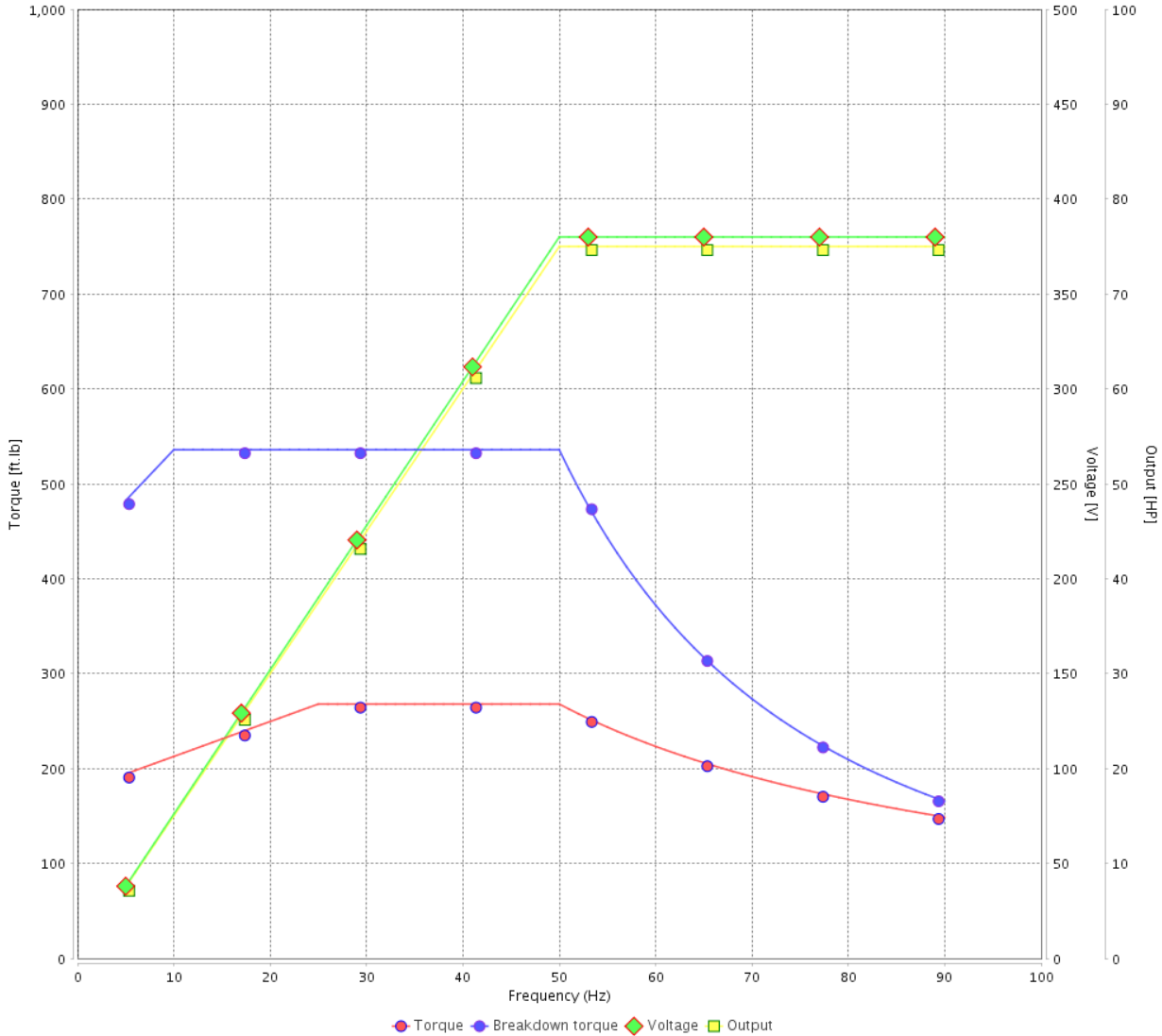
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11356015

Catalog # : 07518ET3G365T-W22

VFD OPERATION CURVE



Performance : 380 V 50 Hz 4P IE2

Rated current : 106 A
 LRC : 5.1
 Rated torque : 268 ft.lb
 Locked rotor torque : 170 %
 Breakdown torque : 200 %
 Rated speed : 1470 rpm

Moment of inertia (J) : 23.3 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 |
|--------------|-----------------|-----------|-----------------|----------|
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| Performed by | | | Page 34 / 36 | Revision |
| Checked by | | | | |
| Date | 13/04/2022 | | | |

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

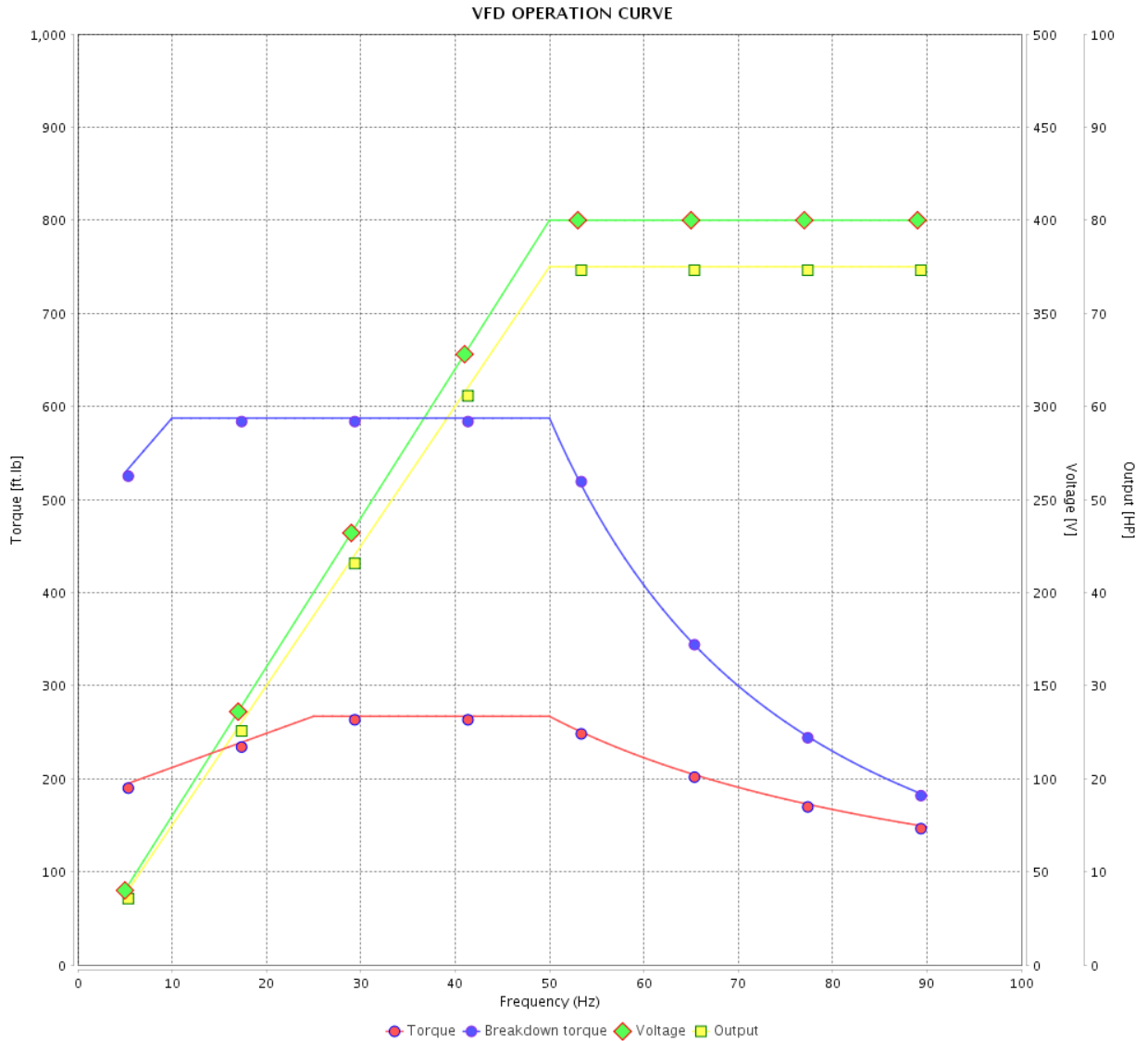


Customer : _____

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11356015

Catalog # : 07518ET3G365T-W22



Performance : 400 V 50 Hz 4P IE2

Rated current : 102 A
 LRC : 5.6
 Rated torque : 267 ft.lb
 Locked rotor torque : 200 %
 Breakdown torque : 220 %
 Rated speed : 1475 rpm

Moment of inertia (J) : 23.3 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 |
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| Performed by | | | Page 35 / 36 | Revision |
| Checked by | | | | |
| Date | 13/04/2022 | | | |

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



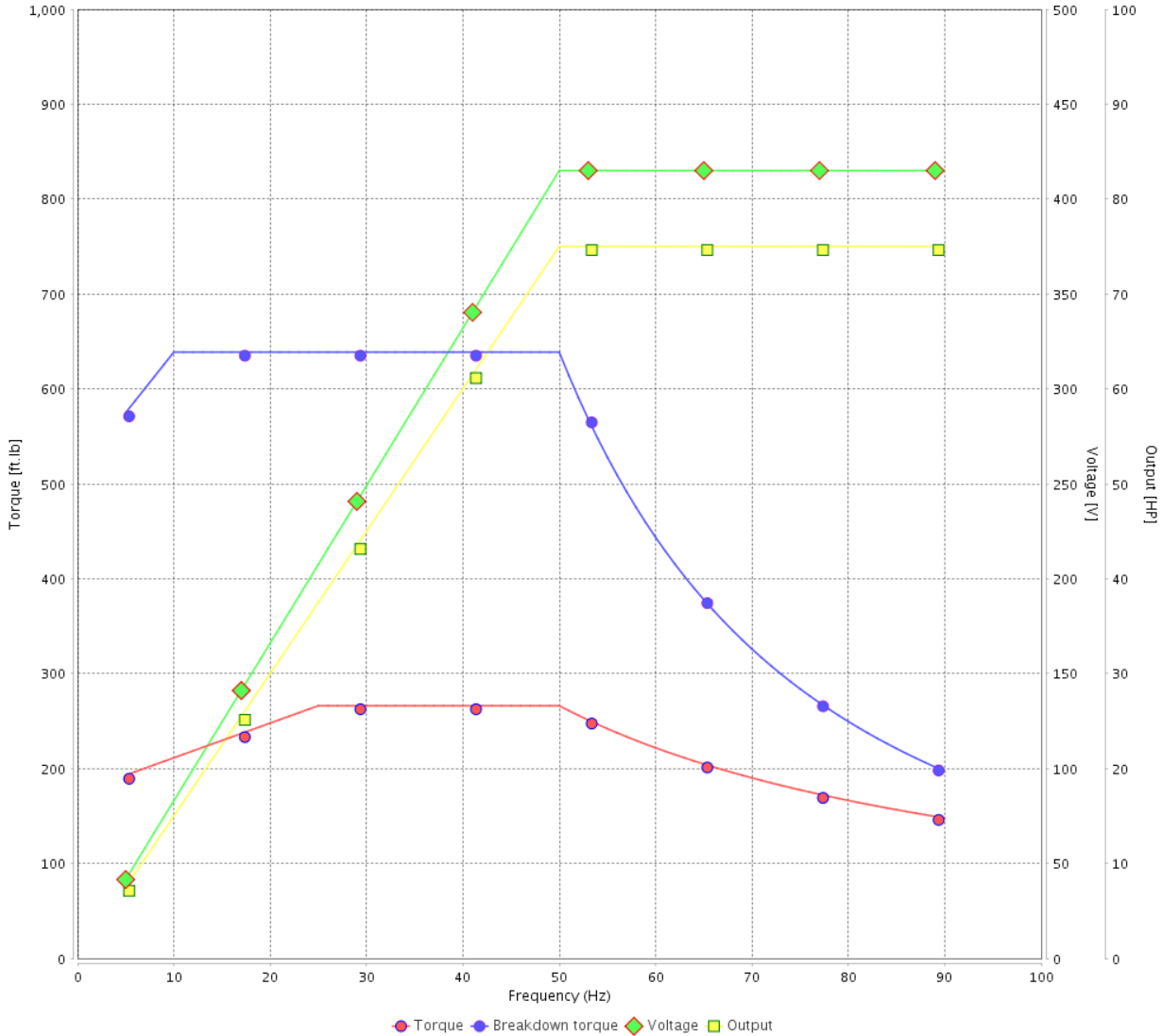
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11356015

Catalog # : 07518ET3G365T-W22

VFD OPERATION CURVE



Performance : 415 V 50 Hz 4P IE2

Rated current : 98.7 A
 LRC : 6.1
 Rated torque : 266 ft.lb
 Locked rotor torque : 210 %
 Breakdown torque : 240 %
 Rated speed : 1480 rpm

Moment of inertia (J) : 23.3 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : B

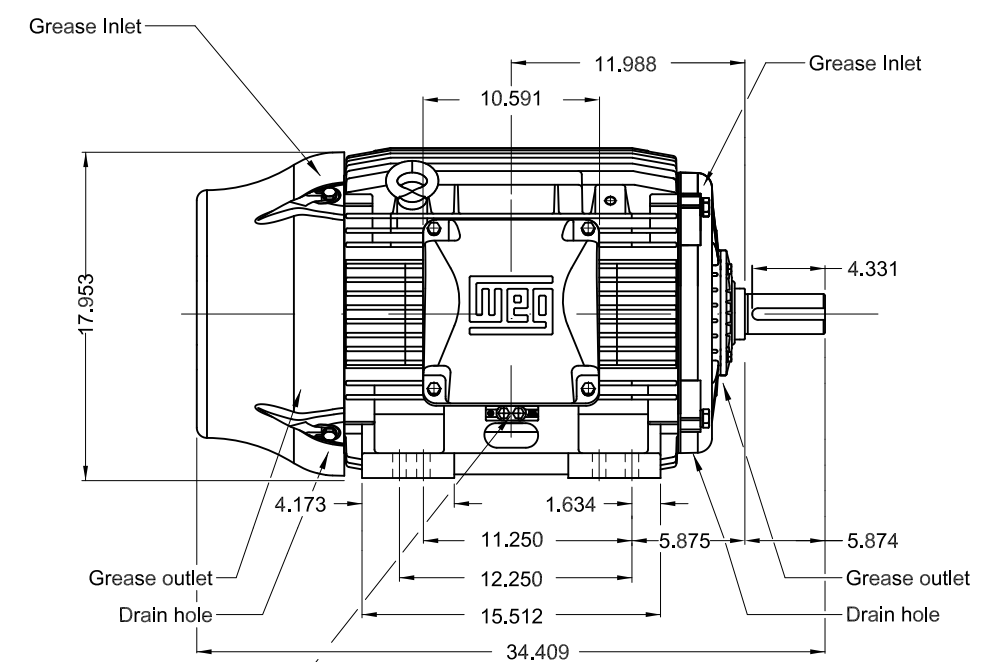
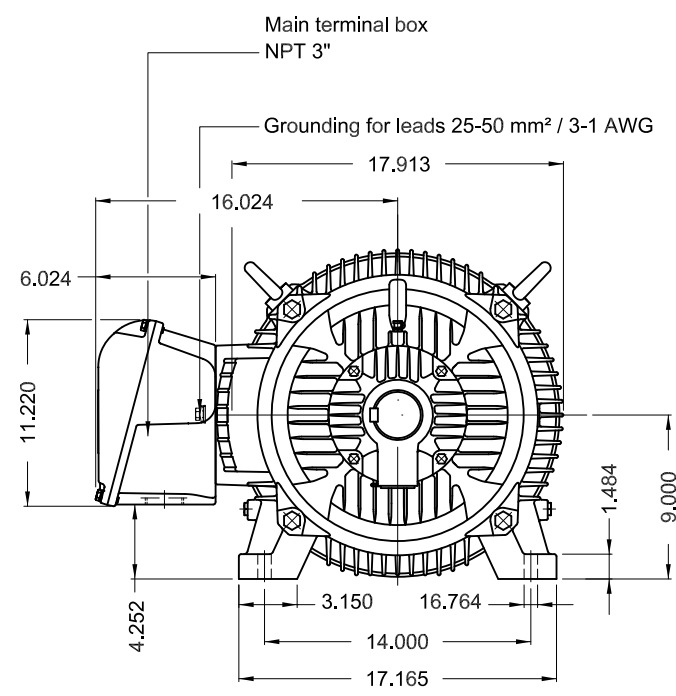
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| Performed by | | | Page 36 / 36 | Revision |
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| Date | 13/04/2022 | | | |

1 2 3 4 5 6

A

B

C

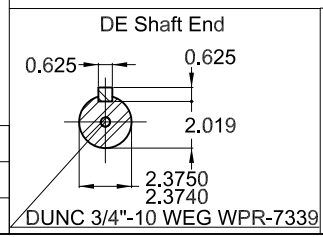


Grounding for leads 25-185 mm² / 3AWG-350MCM

D

E

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



75 HP 04 Poles 60 Hz A

| ECM | LOC | SUMMARY OF MODIFICATIONS | EXECUTED | CHECKED | RELEASED | DATE | VER |
|----------|-----------|--------------------------------|---------------------|---------|----------|------|-----|
| EXECUTED | PIRWBUSER | THREE PH. MOTOR W22 PREM. EFF. | | | | | |
| CHECKED | | FRAME 364/5T IP55 TEFC | | | | | |
| RELEASED | | | | | | | |
| REL DT. | WMO | Jaragua do Sul | Product Engineering | SHEET | 1 / 1 | | |

PREVIEW
WDD



MADE IN MEXICO
11356015



FOR SAFE AREA
Mod.TE1BFOXON
CC029A

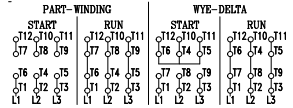


Class I, Div 2, Gr A, B, C and D - T3
Class I, Zone 2, IIC - T3
Class II, Div 2, Gr F and G - T4
For use on PWM: Gr. A, B, C, D and F,
VT 1000:1, CT 20:1, 1.00SF - T3A

MODEL 07518ET3G365T-W22

Inverter Duty Motor
Severe Duty

| | | | | | | |
|------------|------|------------|--------------|-----------------|--------------------|-------|
| PH3 | 60Hz | Fr. 364/5T | 1000m.a.s.l. | IP55 | TEFC | 924lb |
| V 460 | | | | A 87.2 | | |
| HP 75 | | | | kW 55 | | |
| SF 1.25 | | | | SFA 109 | | |
| RPM 1780 | | | | PF 0.83 | | |
| AMB 40°C | | | | INS cl. F DT80K | NEMA NOM EFF 95.4% | |
| DUTY CONT. | | | | DES B Code G | | |



→ 6314-C3 (27g)
 → 6314-C3 (27g)

MOBIL POLYREX EM (12000h)