

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

| | | | | | | | | |
|--|---------------------------------------|-----------------------------|-------------------------|--|-------------------------|-------------------------|-------------------------|------|
| Customer : | | | | | | | | |
| Product line | : NEMA Premium Efficiency Three-Phase | Product code : | 11625961 | | | | | |
| | | Catalog # : | 05018ET3ER326TC-W22 | | | | | |
| Frame | : 326TC | Cooling method | : IC411 - TEFC | | | | | |
| Insulation class | : F | Mounting | : W-6 | | | | | |
| 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 | : 601 lb | | | | | |
| Protection degree | : IP55 | Moment of inertia (J) | : 9.16 sq.ft.lb | | | | | |
| Design | : B | | | | | | | |
| Output [HP] | 50 | 40 | 40 | 40 | 50 | 50 | 50 | |
| Poles | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| Frequency [Hz] | 60 | 50 | 50 | 50 | 50 | 50 | 50 | |
| Rated voltage [V] | 230/460 | 380 | 400 | 415 | 380 | 400 | 415 | |
| Rated current [A] | 118/59.2 | 58.7 | 57.1 | 56.4 | 71.6 | 68.4 | 66.3 | |
| L. R. Amperes [A] | 734/367 | 376 | 400 | 417 | 372 | 397 | 411 | |
| LRC [A] | 6.2x(Code G) | 6.4x(Code G) | 7.0x(Code H) | 7.4x(Code J) | 5.2x(Code E) | 5.8x(Code F) | 6.2x(Code G) | |
| No load current [A] | 47.0/23.5 | 23.0 | 24.0 | 25.0 | 23.0 | 24.0 | 25.0 | |
| Rated speed [RPM] | 1775 | 1470 | 1475 | 1478 | 1460 | 1465 | 1470 | |
| Slip [%] | 1.39 | 2.00 | 1.67 | 1.47 | 2.67 | 2.33 | 2.00 | |
| Rated torque [ft.lb] | 148 | 143 | 142 | 142 | 180 | 179 | 179 | |
| Locked rotor torque [%] | 229 | 229 | 250 | 260 | 180 | 200 | 210 | |
| Breakdown torque [%] | 270 | 260 | 300 | 330 | 210 | 240 | 260 | |
| 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 | 27s (cold) 15s (hot) | 19s (cold) 11s (hot) | 19s (cold) 11s (hot) | 19s (cold) 11s (hot) | 19s (cold) 11s (hot) | 19s (cold) 11s (hot) | 19s (cold) 11s (hot) | |
| Noise level ² | 66.0 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% | 92.5 | 91.9 | 90.6 | 90.8 | 93.3 | 92.2 | 91.8 |
| | 50% | 93.0 | 92.5 | 91.5 | 91.5 | 93.0 | 92.4 | 92.4 |
| | 75% | 94.1 | 93.1 | 92.8 | 93.0 | 93.0 | 93.0 | 93.0 |
| | 100% | 94.5 | 93.6 | 93.6 | 93.6 | 92.4 | 93.0 | 93.5 |
| Power Factor | 25% | 0.42 | 0.41 | 0.38 | 0.35 | 0.48 | 0.45 | 0.42 |
| | 50% | 0.66 | 0.64 | 0.60 | 0.57 | 0.72 | 0.68 | 0.65 |
| | 75% | 0.77 | 0.77 | 0.73 | 0.70 | 0.81 | 0.79 | 0.76 |
| | 100% | 0.83 | 0.83 | 0.81 | 0.79 | 0.85 | 0.84 | 0.83 |
| Bearing type | : 6312 C3 | 6212 C3 | Foundation loads | | | | | |
| Sealing | : V'Ring | V'Ring | Max. traction | : 1482 lb | | | | |
| Lubrication interval | : 14000 h | 15000 h | Max. compression | : 2083 lb | | | | |
| Lubricant amount | : 21 g | 13 g | | | | | | |
| Lubricant type | : Mobil Polyrex EM | | | | | | | |
| Notes | | | | | | | | |
| USABLE @208V 131A SF 1.15 SFA 151A | | | | | | | | |
| 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



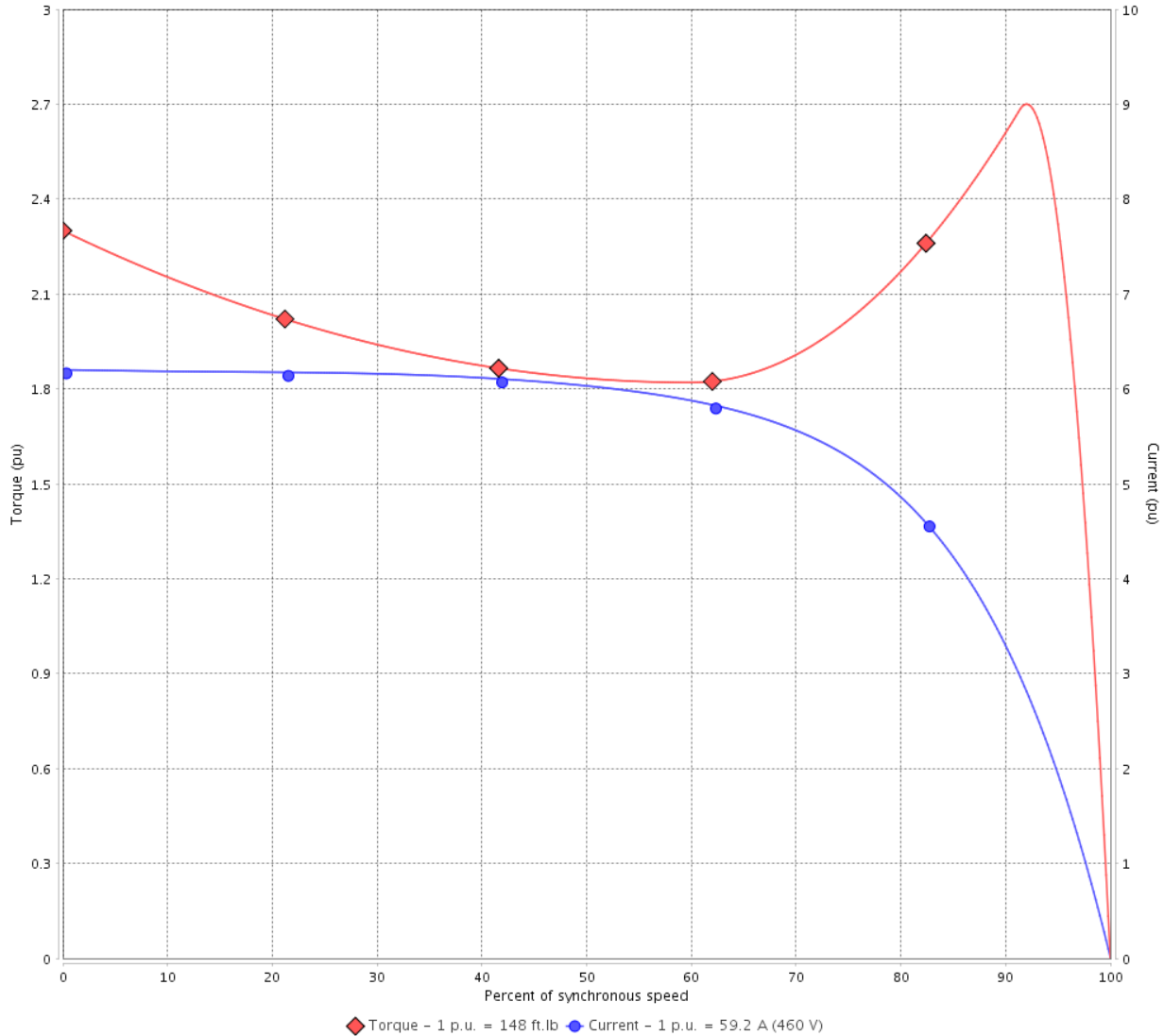
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11625961

Catalog # : 05018ET3ER326TC-W22

TORQUE AND CURRENT VS SPEED CURVE



Performance : 230/460 V 60 Hz 4P

| | | | |
|---------------------|--------------|-----------------------|-----------------|
| Rated current | : 118/59.2 A | Moment of inertia (J) | : 9.16 sq.ft.lb |
| LRC | : 6.2 | Duty cycle | : Cont.(S1) |
| Rated torque | : 148 ft.lb | Insulation class | : F |
| Locked rotor torque | : 229 % | Service factor | : 1.25 |
| Breakdown torque | : 270 % | Temperature rise | : 80 K |
| Rated speed | : 1775 rpm | Design | : B |

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

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TORQUE AND CURRENT VS SPEED CURVE



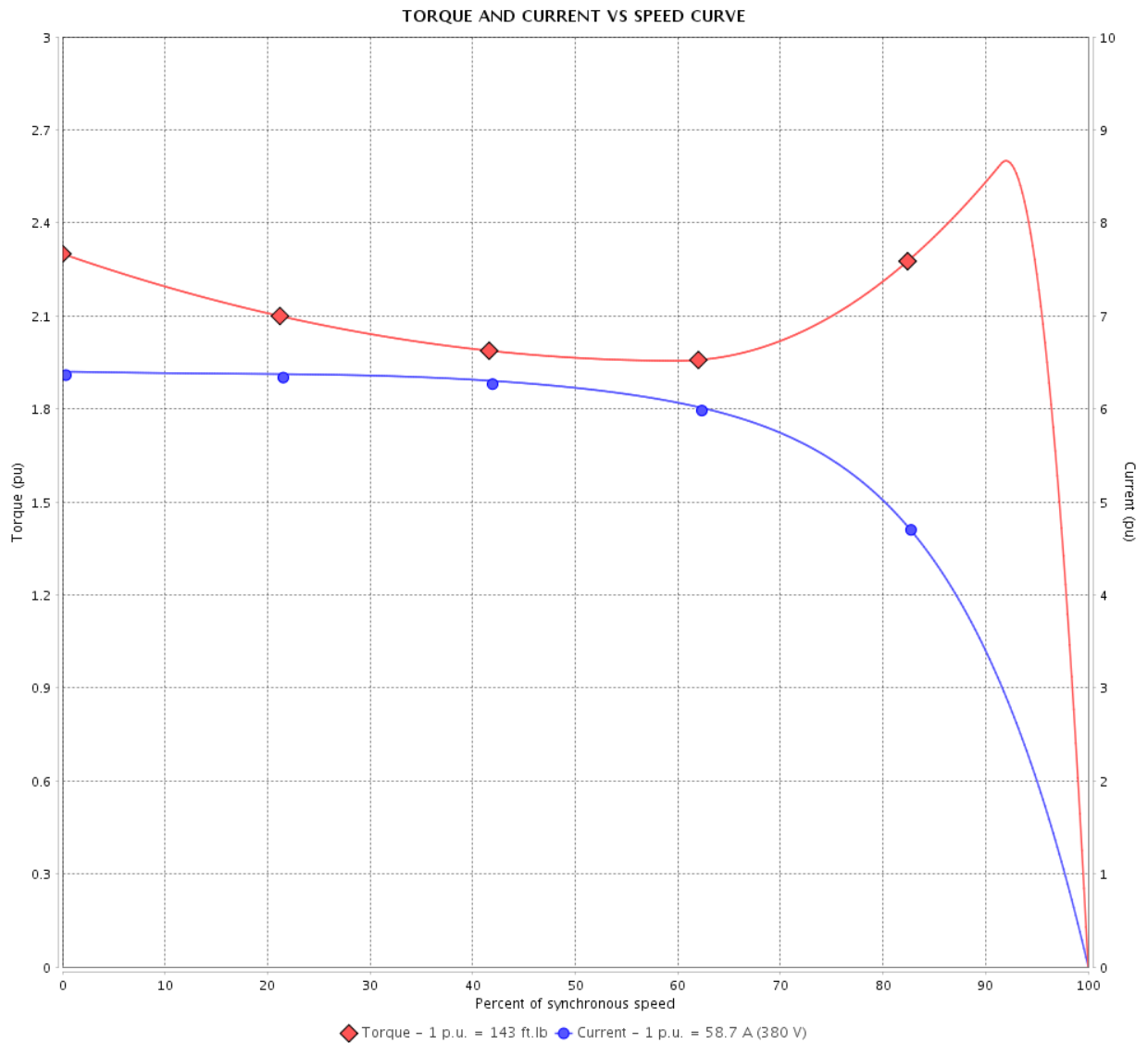
Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase

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Catalog # : 05018ET3ER326TC-W22



Performance : 380 V 50 Hz 4P IE3

| | | | |
|---------------------|-------------|-----------------------|-----------------|
| Rated current | : 58.7 A | Moment of inertia (J) | : 9.16 sq.ft.lb |
| LRC | : 6.4 | Duty cycle | : Cont.(S1) |
| Rated torque | : 143 ft.lb | Insulation class | : F |
| Locked rotor torque | : 229 % | Service factor | : 1.00 |
| Breakdown torque | : 260 % | Temperature rise | : 80 K |
| Rated speed | : 1470 rpm | Design | : B |

Locked rotor time : 19s (cold) 11s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



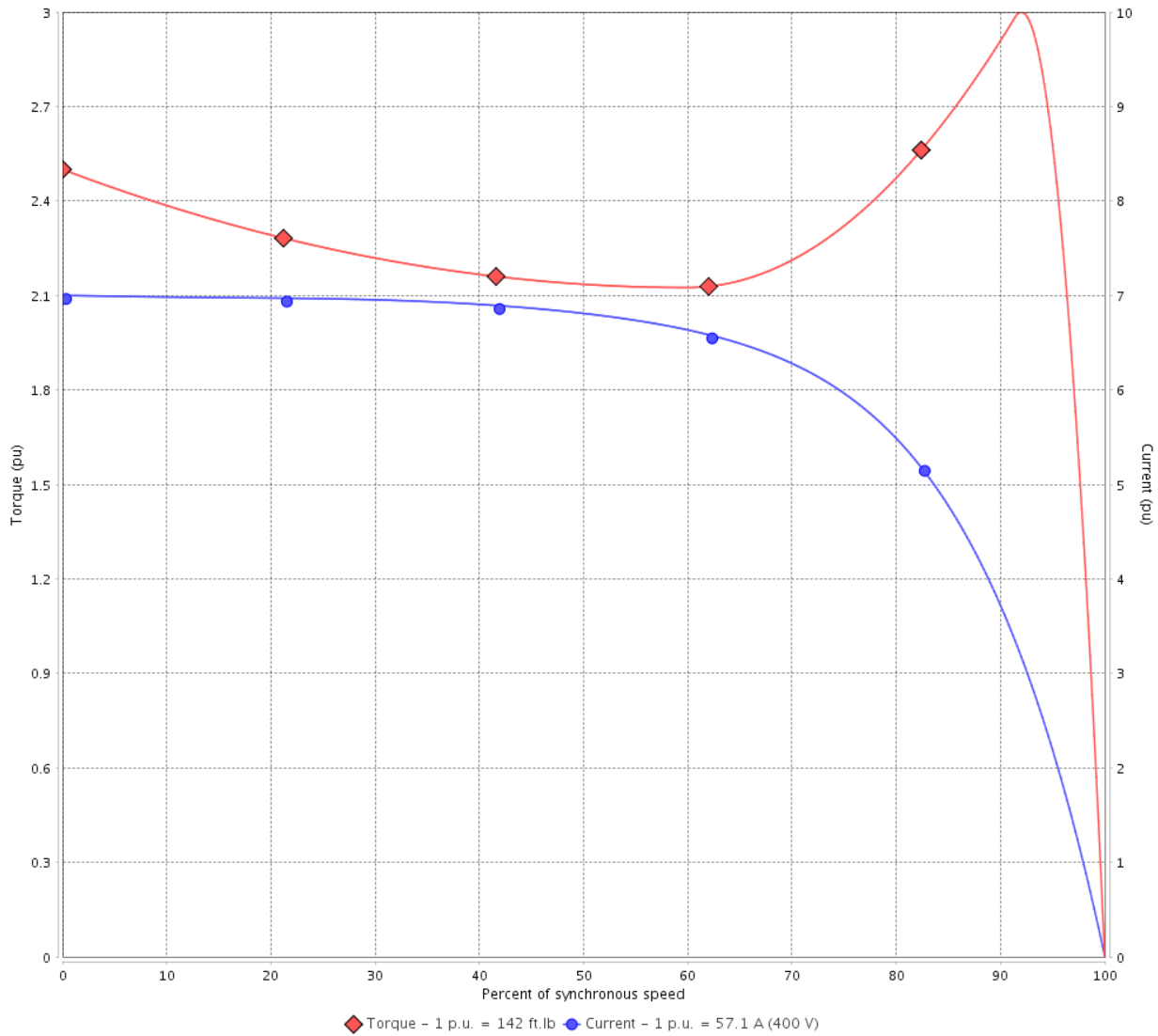
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11625961

Catalog # : 05018ET3ER326TC-W22

TORQUE AND CURRENT VS SPEED CURVE



Performance : 400 V 50 Hz 4P IE3

| | | | |
|---------------------|-------------|-----------------------|-----------------|
| Rated current | : 57.1 A | Moment of inertia (J) | : 9.16 sq.ft.lb |
| LRC | : 7.0 | Duty cycle | : Cont.(S1) |
| Rated torque | : 142 ft.lb | Insulation class | : F |
| Locked rotor torque | : 250 % | Service factor | : 1.00 |
| Breakdown torque | : 300 % | Temperature rise | : 80 K |
| Rated speed | : 1475 rpm | Design | : B |

Locked rotor time : 19s (cold) 11s (hot)

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TORQUE AND CURRENT VS SPEED CURVE



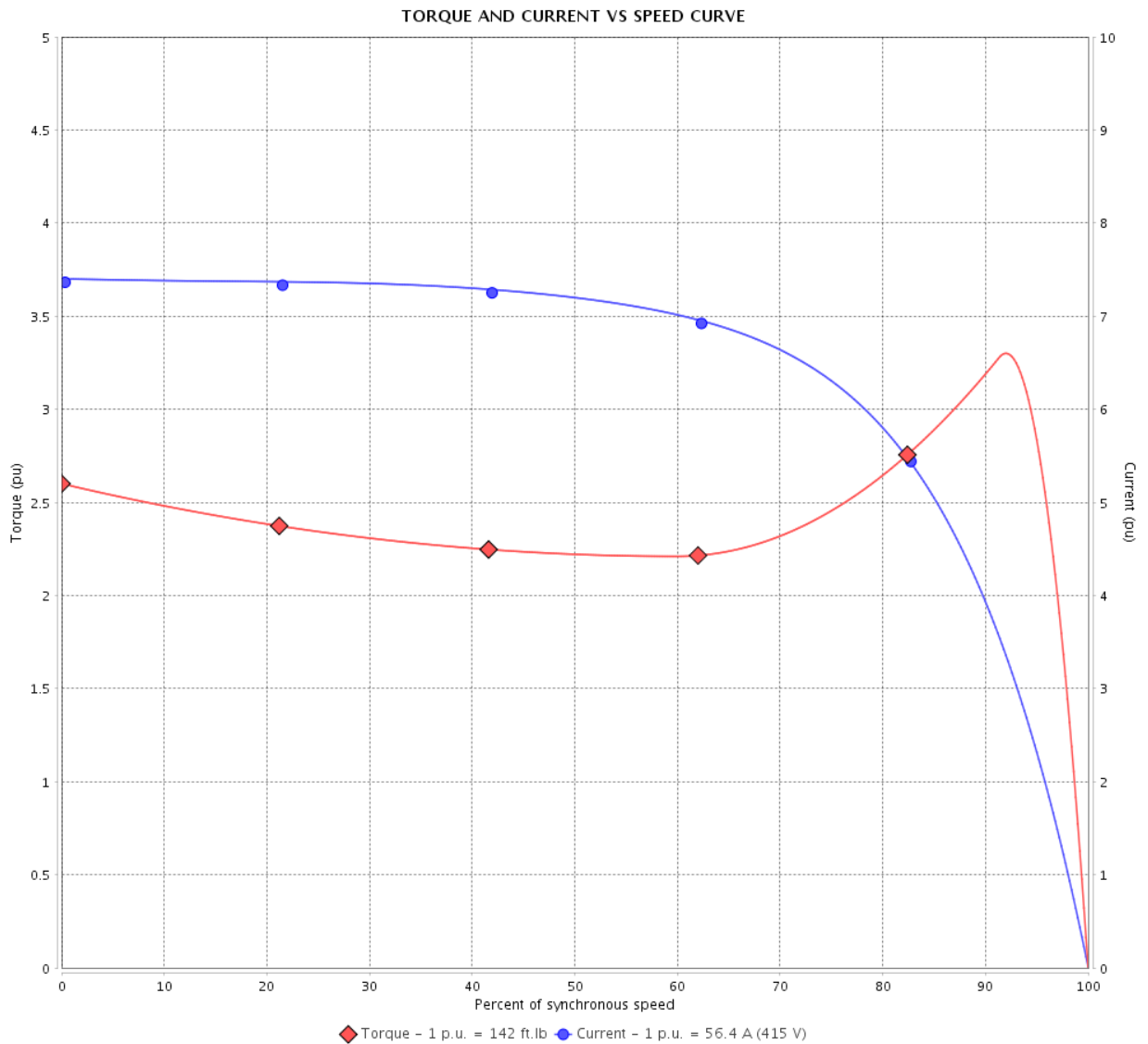
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|---------------------|-------------|-----------------------|-----------------|
| Rated current | : 56.4 A | Moment of inertia (J) | : 9.16 sq.ft.lb |
| LRC | : 7.4 | Duty cycle | : Cont.(S1) |
| Rated torque | : 142 ft.lb | Insulation class | : F |
| Locked rotor torque | : 260 % | Service factor | : 1.00 |
| Breakdown torque | : 330 % | Temperature rise | : 80 K |
| Rated speed | : 1478 rpm | Design | : B |

Locked rotor time : 19s (cold) 11s (hot)

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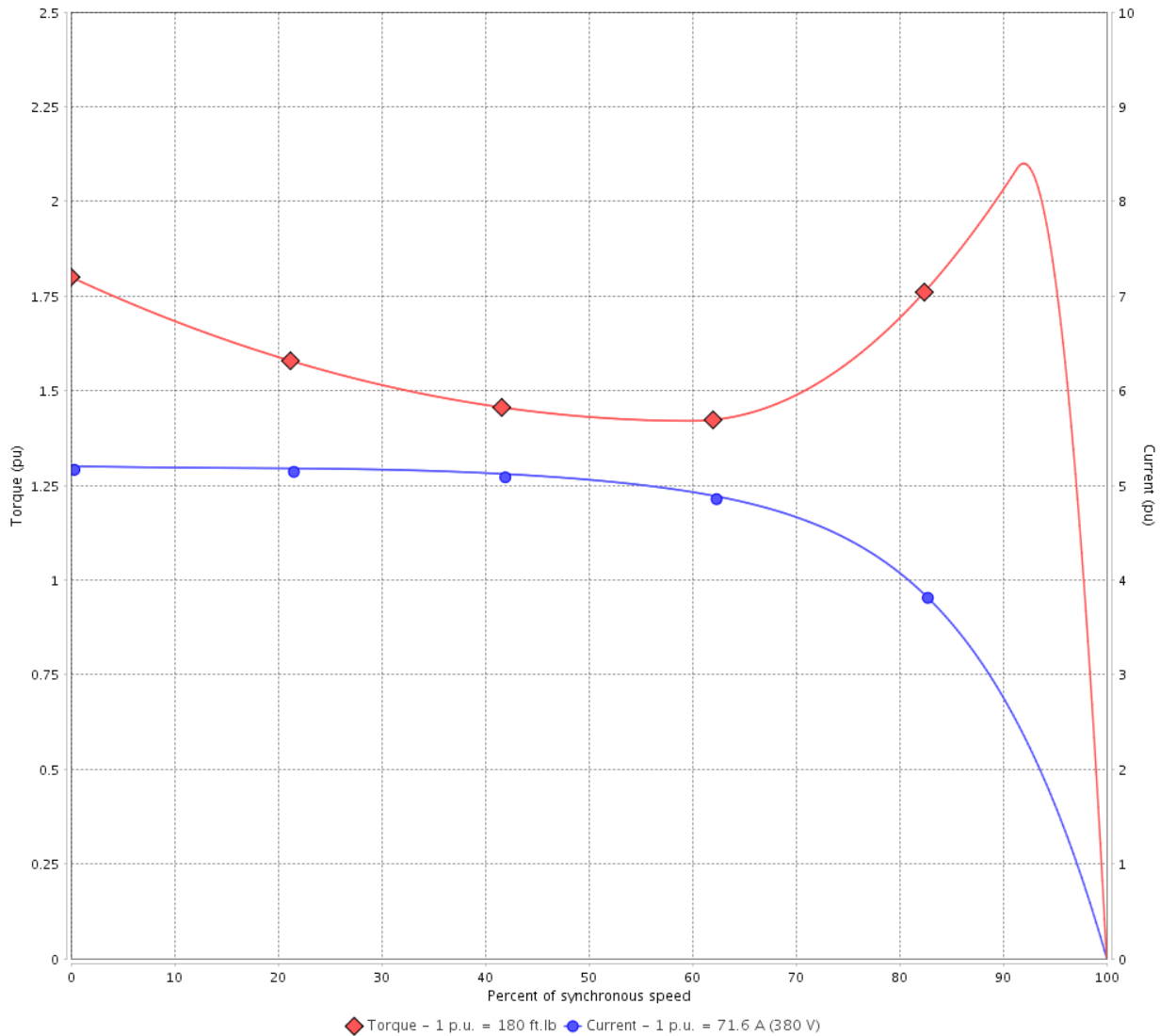
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Product code : 11625961

Catalog # : 05018ET3ER326TC-W22

TORQUE AND CURRENT VS SPEED CURVE



Performance : 380 V 50 Hz 4P IE1

| | | | |
|---------------------|-------------|-----------------------|-----------------|
| Rated current | : 71.6 A | Moment of inertia (J) | : 9.16 sq.ft.lb |
| LRC | : 5.2 | Duty cycle | : Cont.(S1) |
| Rated torque | : 180 ft.lb | Insulation class | : F |
| Locked rotor torque | : 180 % | Service factor | : 1.00 |
| Breakdown torque | : 210 % | Temperature rise | : 105 K |
| Rated speed | : 1460 rpm | Design | : B |

Locked rotor time : 19s (cold) 11s (hot)

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TORQUE AND CURRENT VS SPEED CURVE



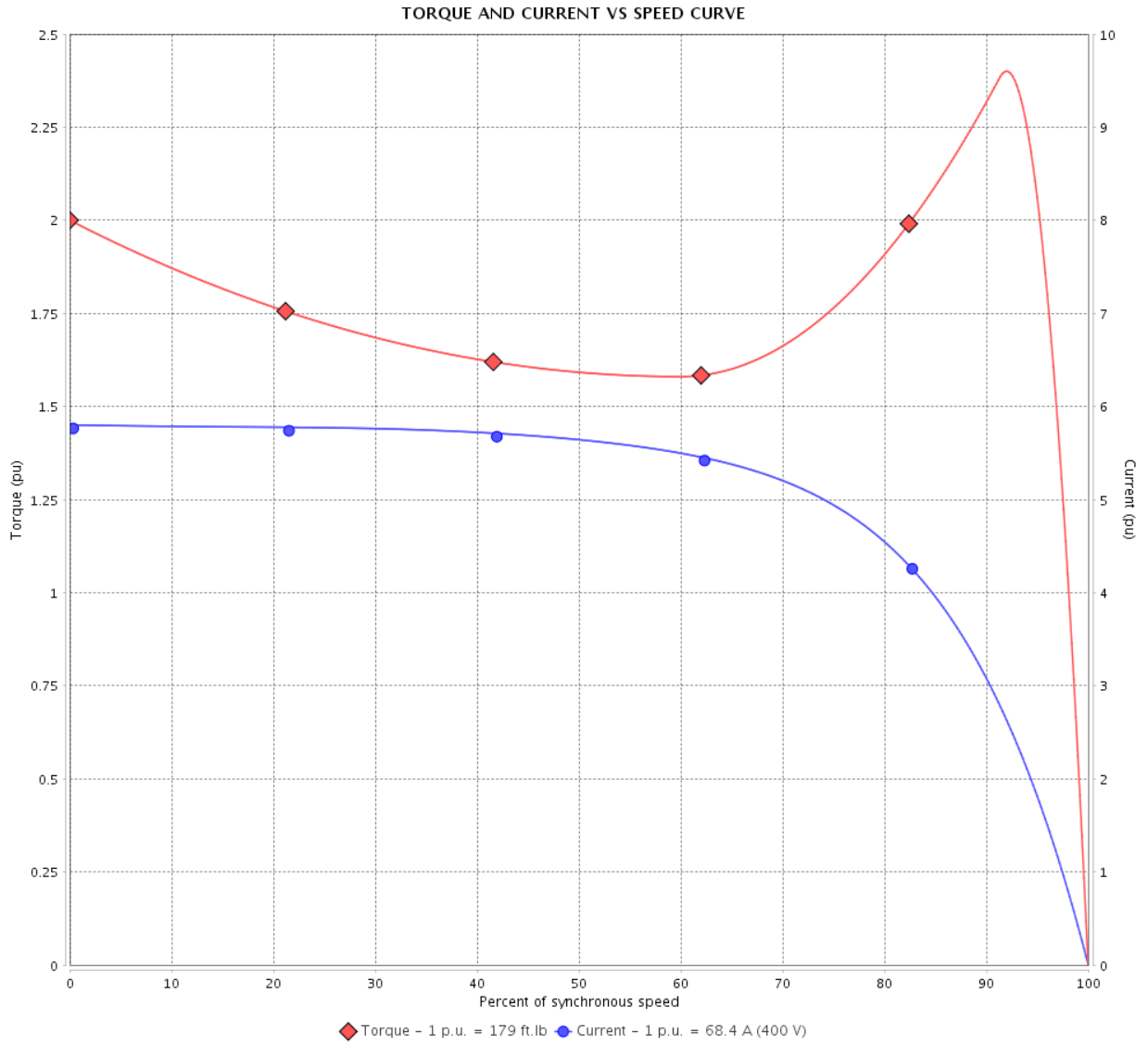
Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11625961

Catalog # : 05018ET3ER326TC-W22



Performance : 400 V 50 Hz 4P IE2

| | | | |
|---------------------|-------------|-----------------------|-----------------|
| Rated current | : 68.4 A | Moment of inertia (J) | : 9.16 sq.ft.lb |
| LRC | : 5.8 | Duty cycle | : Cont.(S1) |
| Rated torque | : 179 ft.lb | Insulation class | : F |
| Locked rotor torque | : 200 % | Service factor | : 1.00 |
| Breakdown torque | : 240 % | Temperature rise | : 105 K |
| Rated speed | : 1465 rpm | Design | : B |

Locked rotor time : 19s (cold) 11s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

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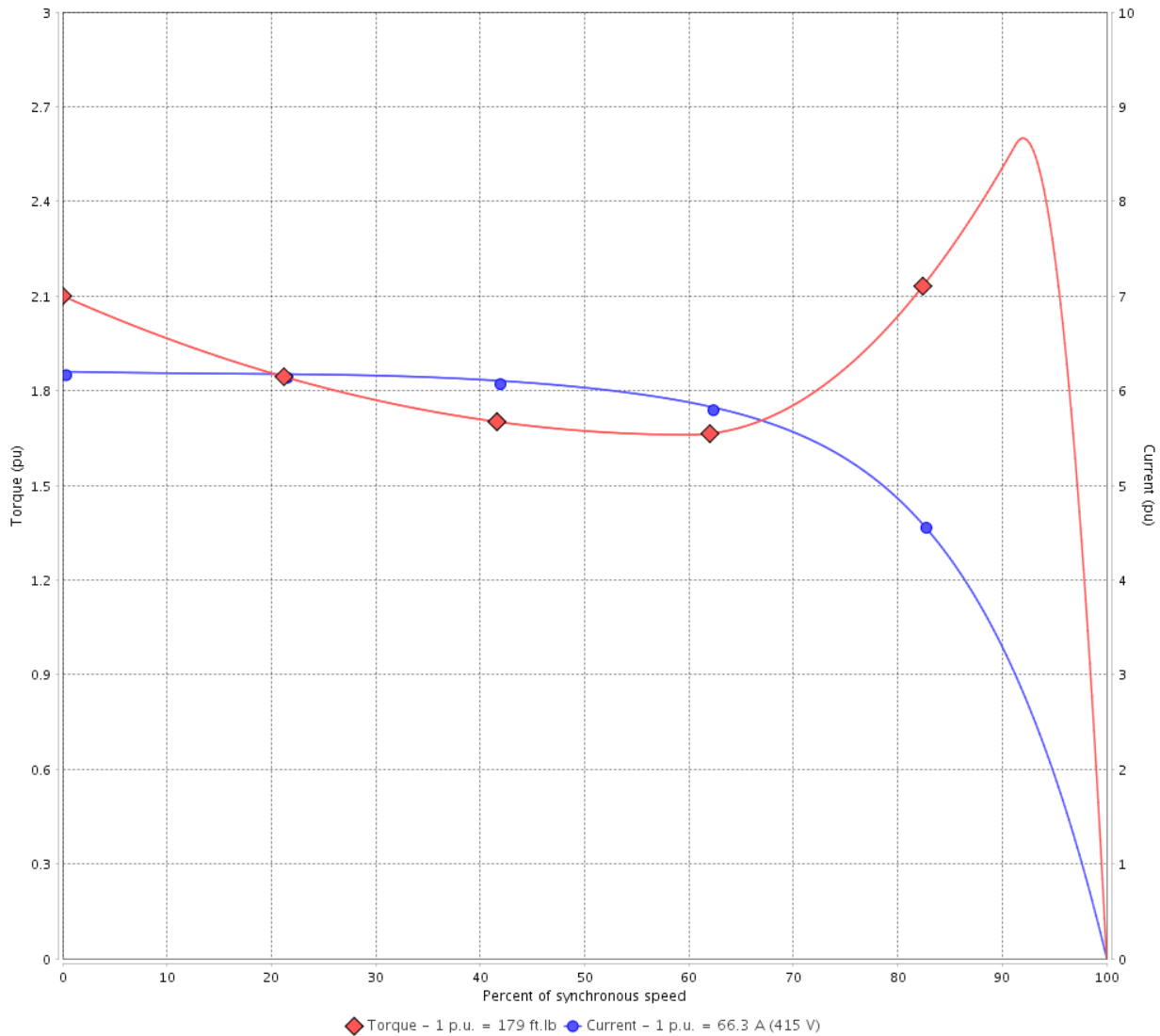
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TORQUE AND CURRENT VS SPEED CURVE



Performance : 415 V 50 Hz 4P IE2

| | | | |
|---------------------|-------------|-----------------------|-----------------|
| Rated current | : 66.3 A | Moment of inertia (J) | : 9.16 sq.ft.lb |
| LRC | : 6.2 | Duty cycle | : Cont.(S1) |
| Rated torque | : 179 ft.lb | Insulation class | : F |
| Locked rotor torque | : 210 % | Service factor | : 1.00 |
| Breakdown torque | : 260 % | Temperature rise | : 105 K |
| Rated speed | : 1470 rpm | Design | : B |

Locked rotor time : 19s (cold) 11s (hot)

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LOAD PERFORMANCE CURVE

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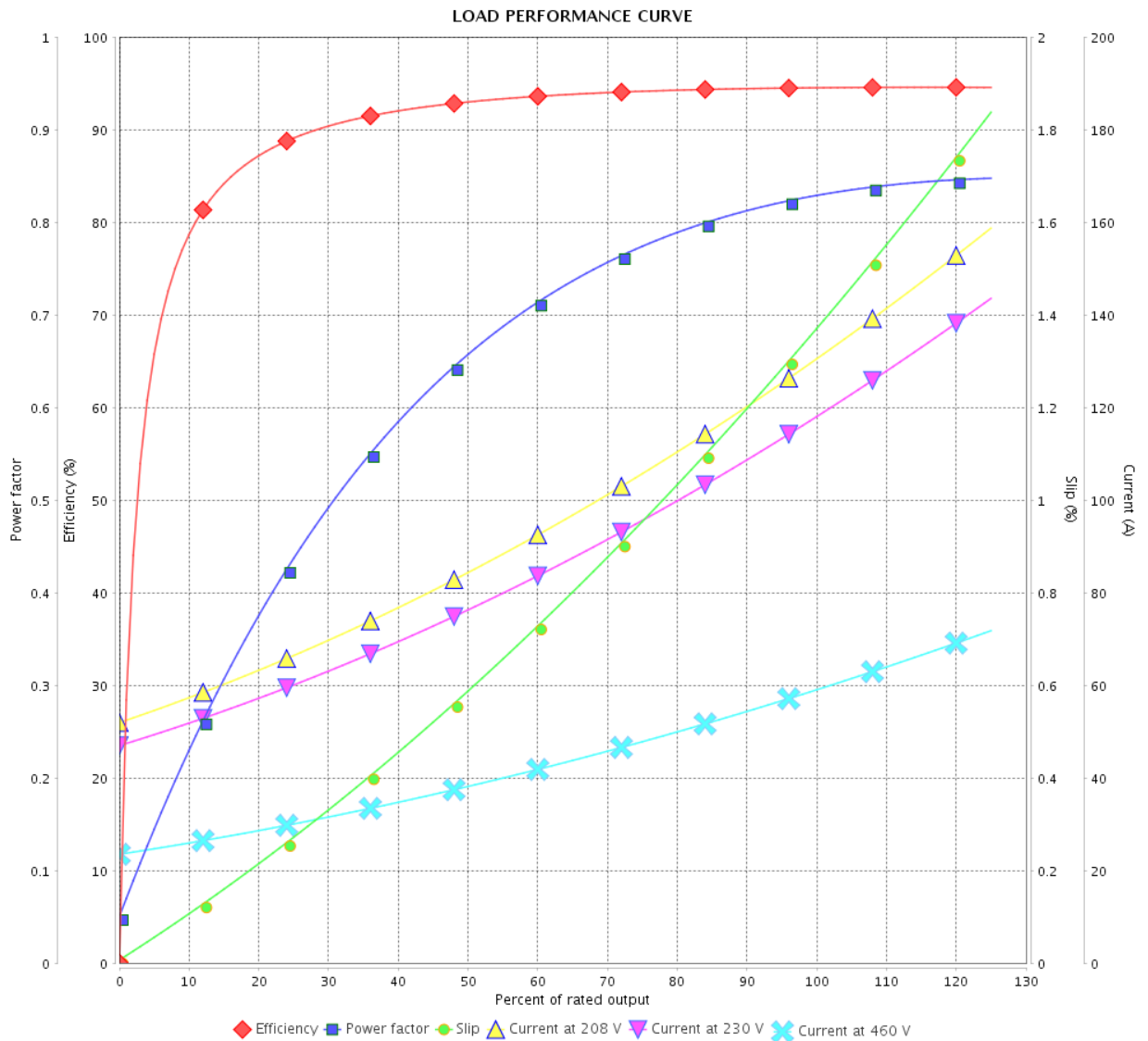


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Product code : 11625961

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Performance : 230/460 V 60 Hz 4P

Rated current : 118/59.2 A
 LRC : 6.2
 Rated torque : 148 ft.lb
 Locked rotor torque : 229 %
 Breakdown torque : 270 %
 Rated speed : 1775 rpm

Moment of inertia (J) : 9.16 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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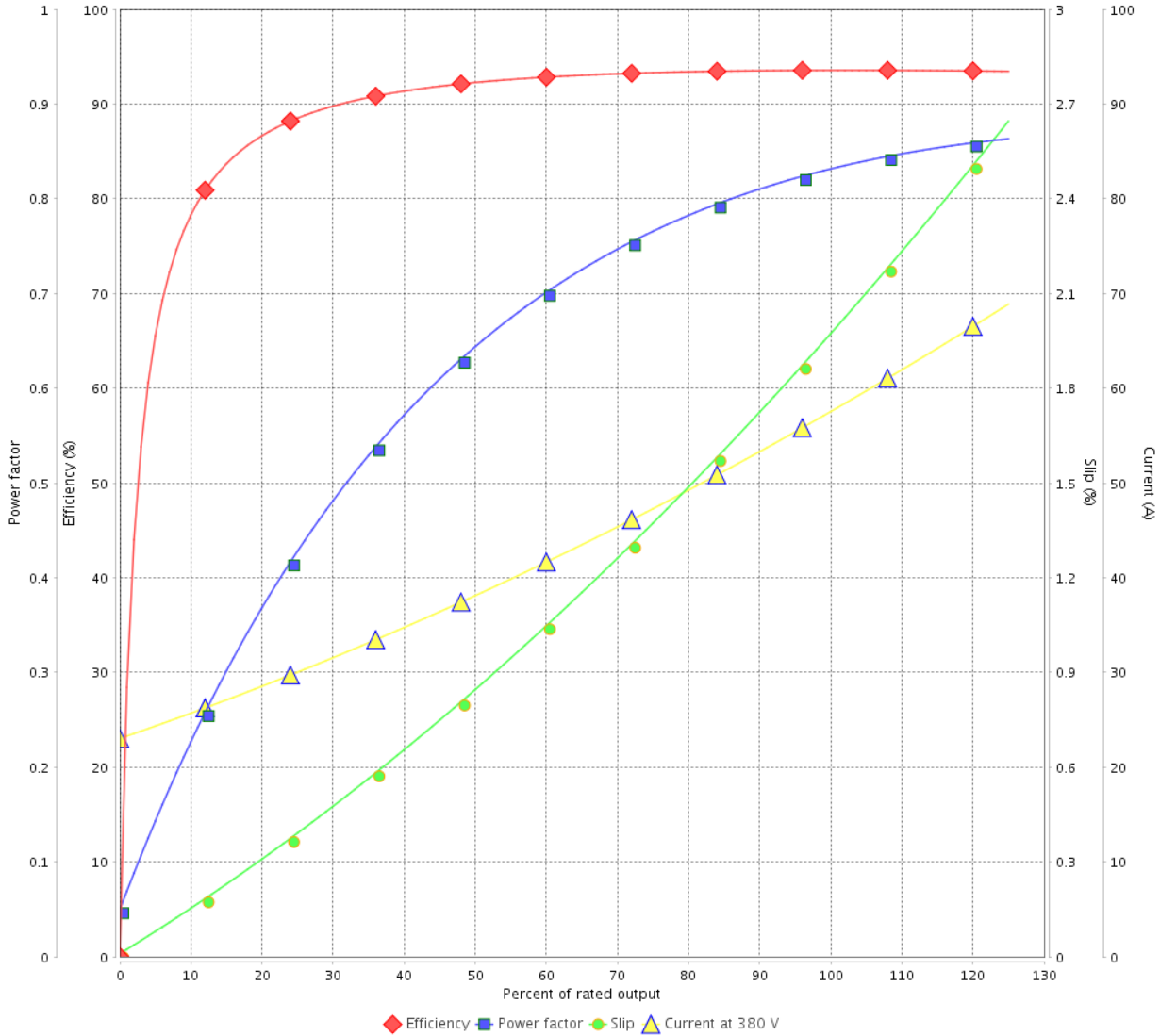
Customer :

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LOAD PERFORMANCE CURVE



Performance : 380 V 50 Hz 4P IE3

| | | | |
|---------------------|-------------|-----------------------|-----------------|
| Rated current | : 58.7 A | Moment of inertia (J) | : 9.16 sq.ft.lb |
| LRC | : 6.4 | Duty cycle | : Cont.(S1) |
| Rated torque | : 143 ft.lb | Insulation class | : F |
| Locked rotor torque | : 229 % | Service factor | : 1.00 |
| Breakdown torque | : 260 % | Temperature rise | : 80 K |
| Rated speed | : 1470 rpm | Design | : B |

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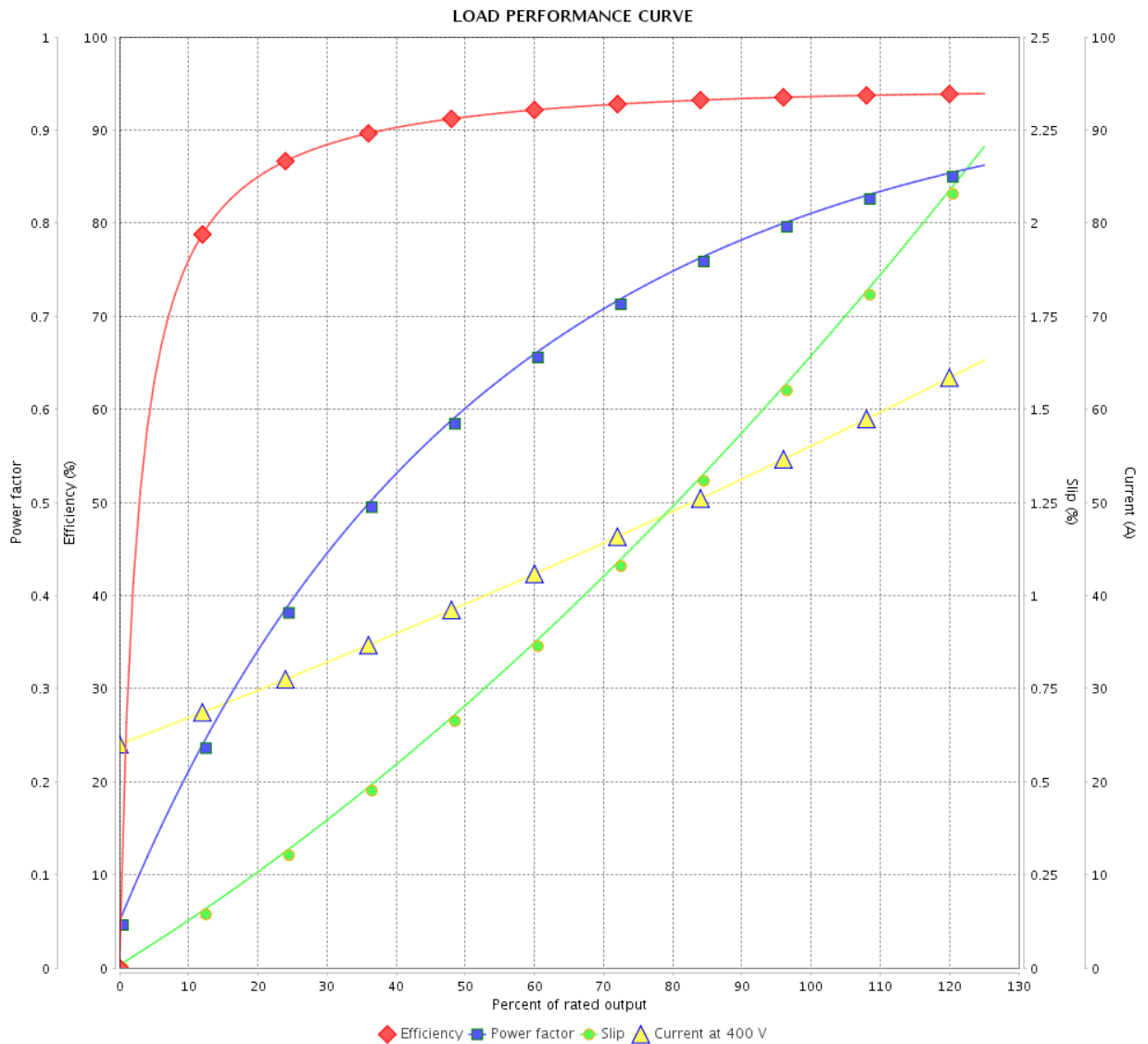


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Performance : 400 V 50 Hz 4P IE3

Rated current : 57.1 A
 LRC : 7.0
 Rated torque : 142 ft.lb
 Locked rotor torque : 250 %
 Breakdown torque : 300 %
 Rated speed : 1475 rpm

Moment of inertia (J) : 9.16 sq.ft.lb
 Duty cycle : Cont.(S1)
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 Service factor : 1.00
 Temperature rise : 80 K
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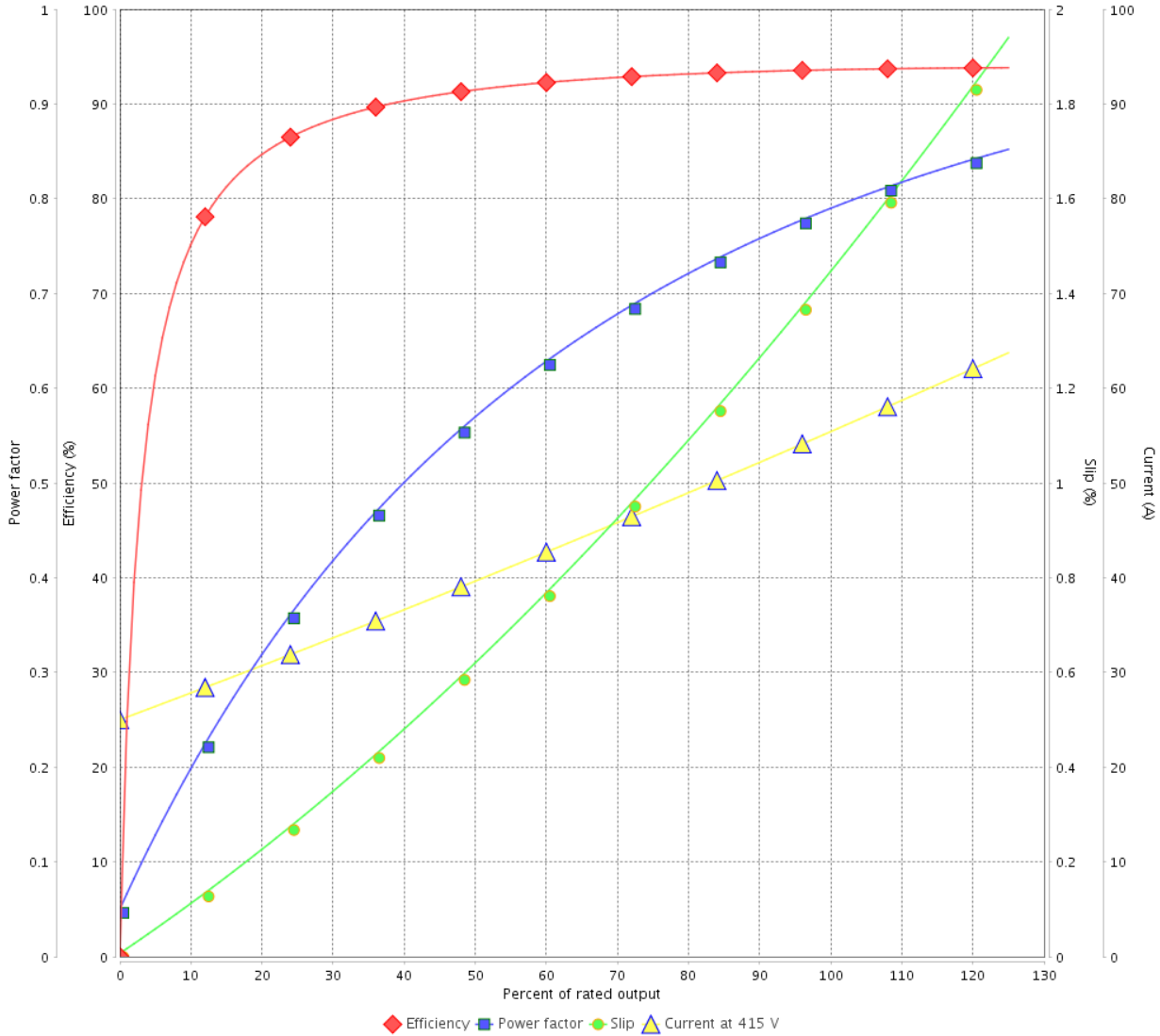
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

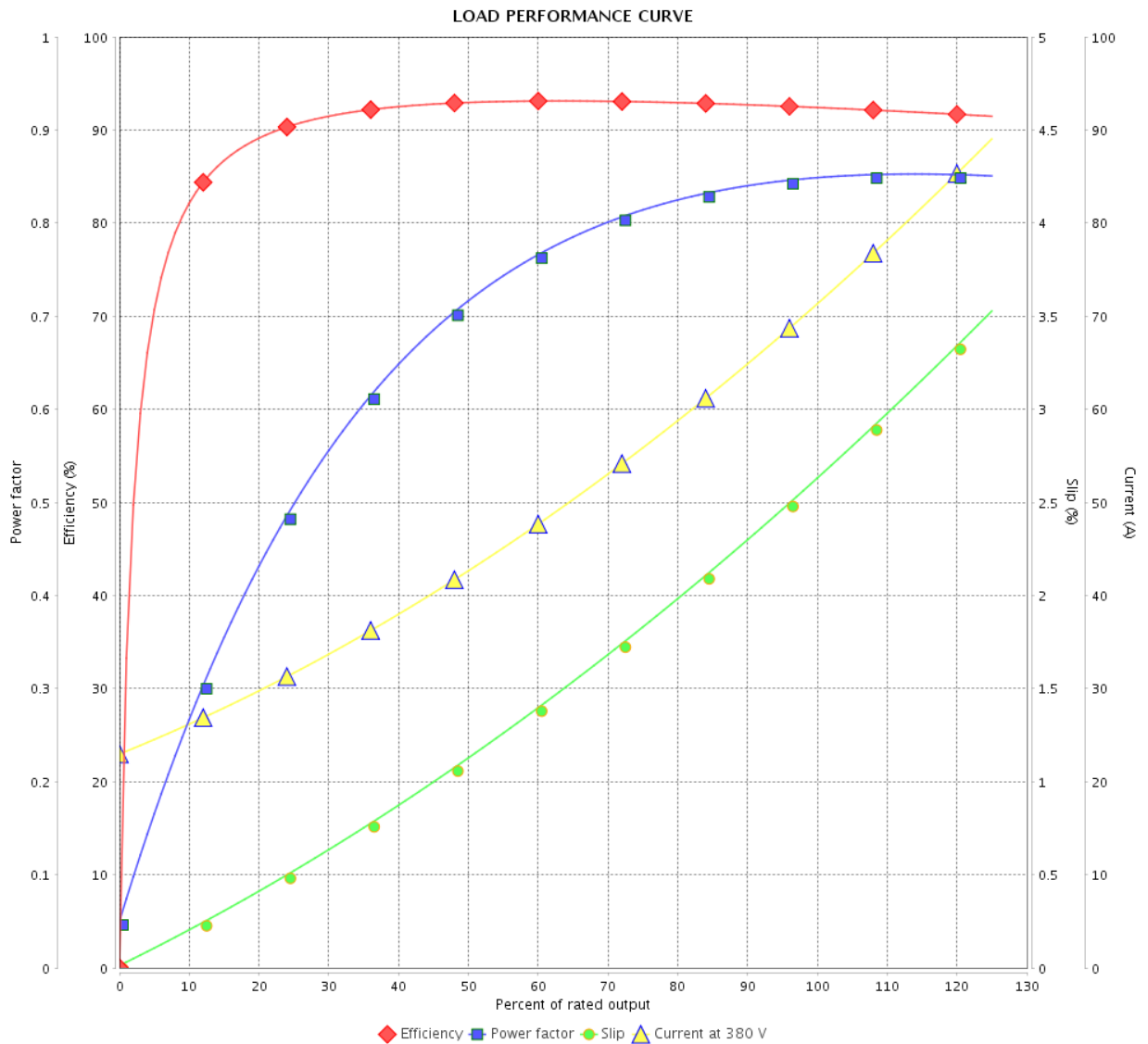


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Performance : 380 V 50 Hz 4P IE1

Rated current : 71.6 A
 LRC : 5.2
 Rated torque : 180 ft.lb
 Locked rotor torque : 180 %
 Breakdown torque : 210 %
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Moment of inertia (J) : 9.16 sq.ft.lb
 Duty cycle : Cont.(S1)
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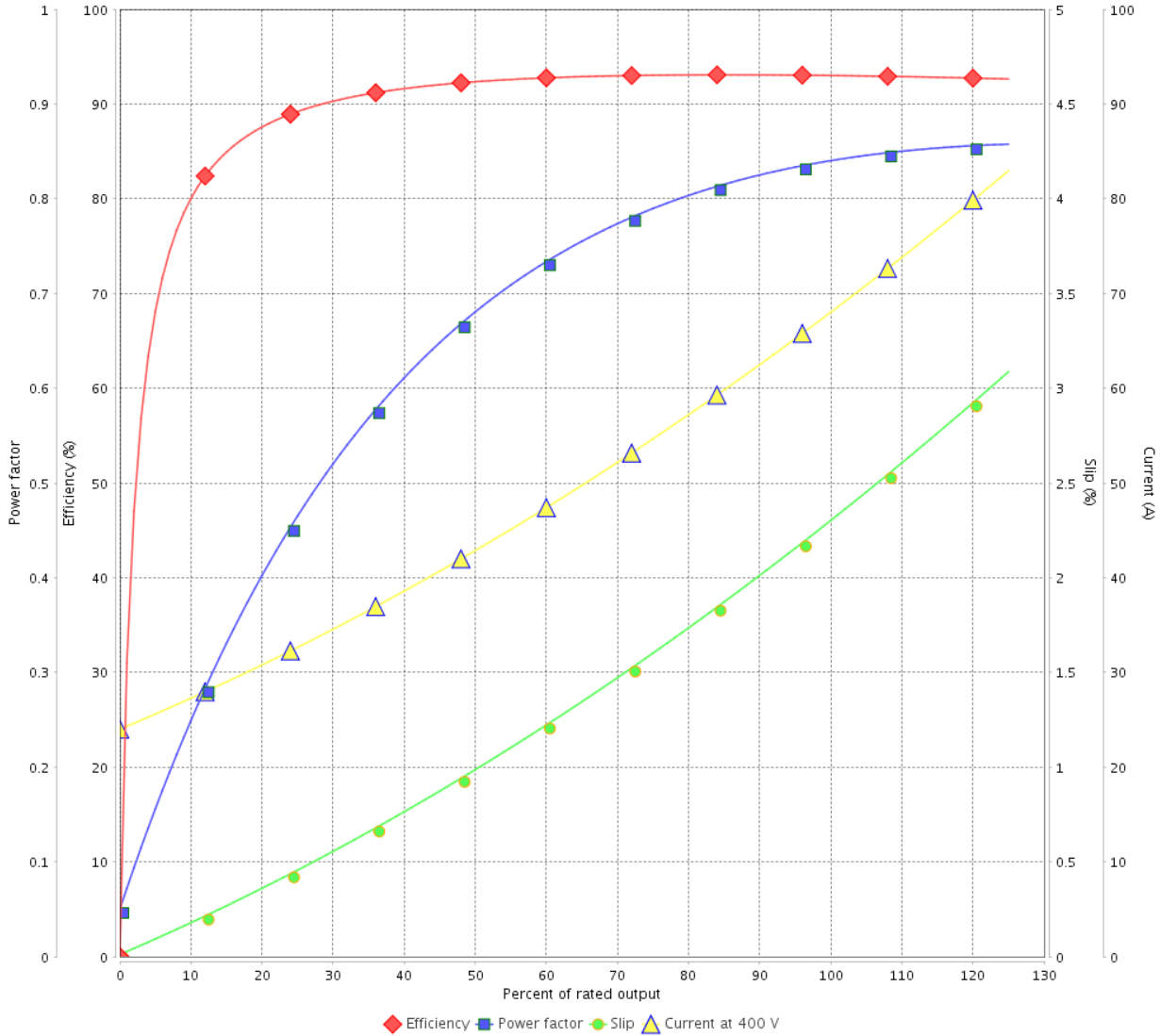
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LOAD PERFORMANCE CURVE



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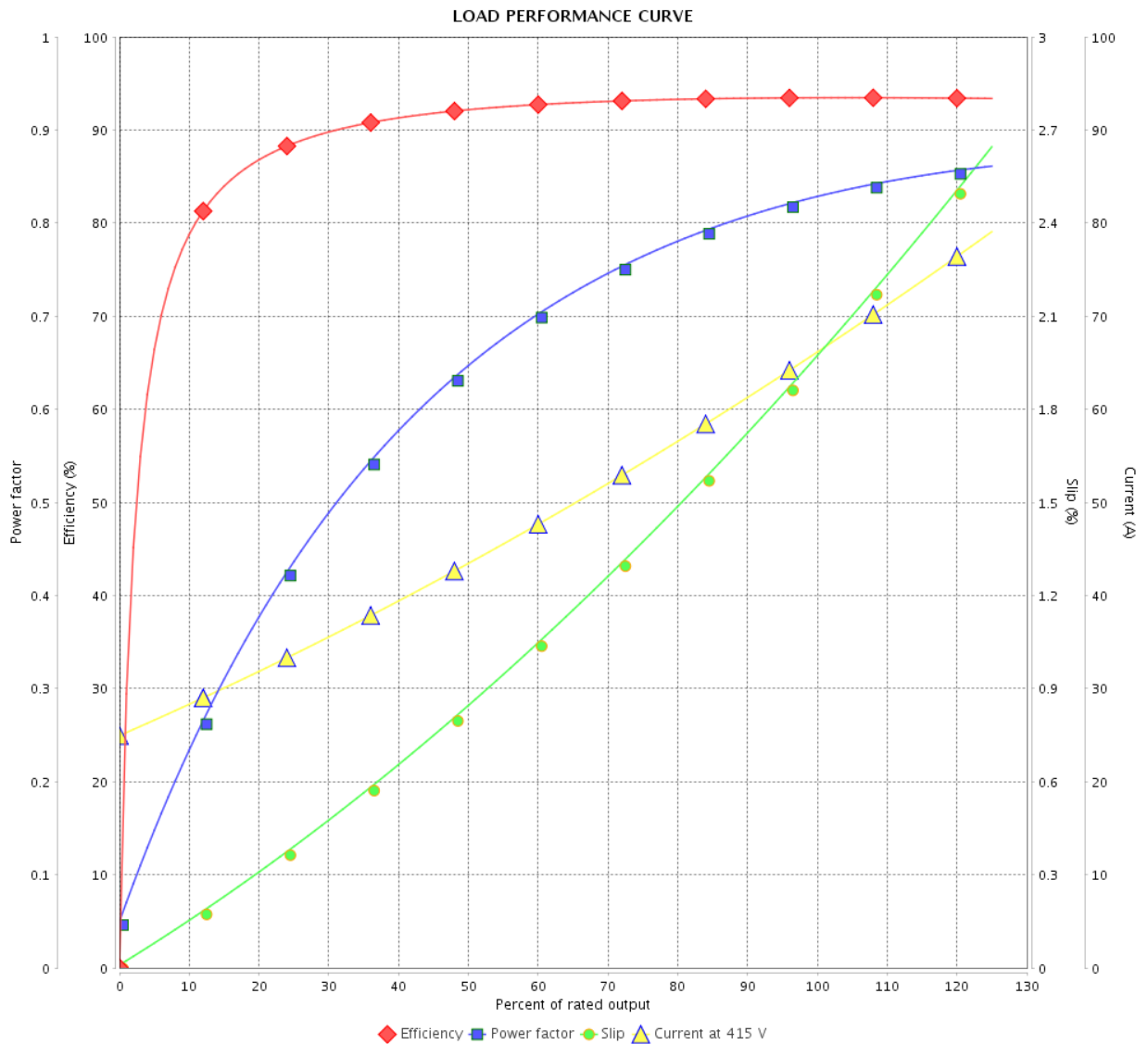


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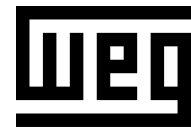
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THERMAL LIMIT CURVE



Three Phase Induction Motor - Squirrel Cage

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| Locked rotor torque : 229 % | Service factor : 1.25 |
| Breakdown torque : 270 % | Temperature rise : 80 K |
| Rated speed : 1775 rpm | Design : B |

Heating constant

Cooling constant

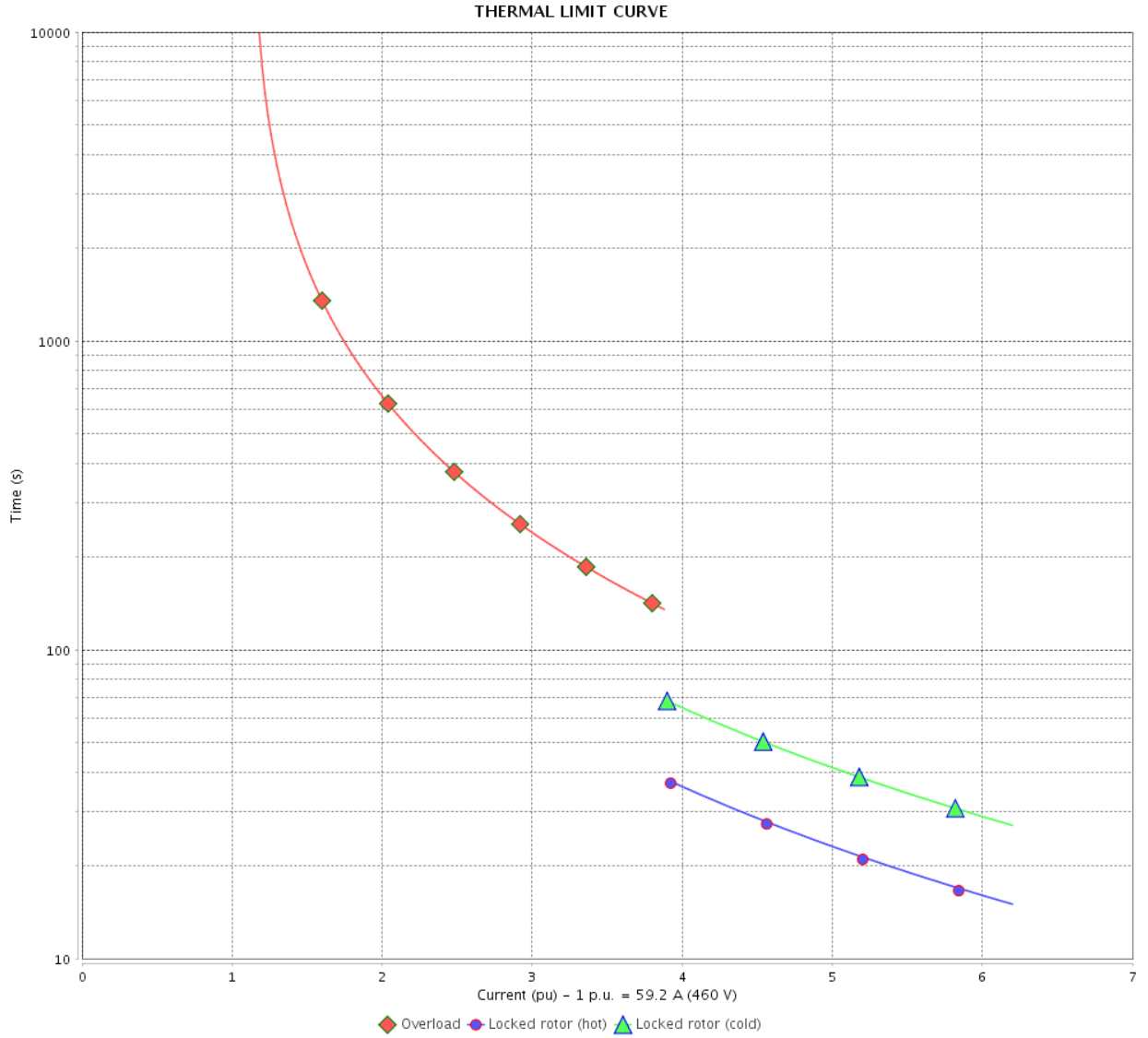
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THERMAL LIMIT CURVE



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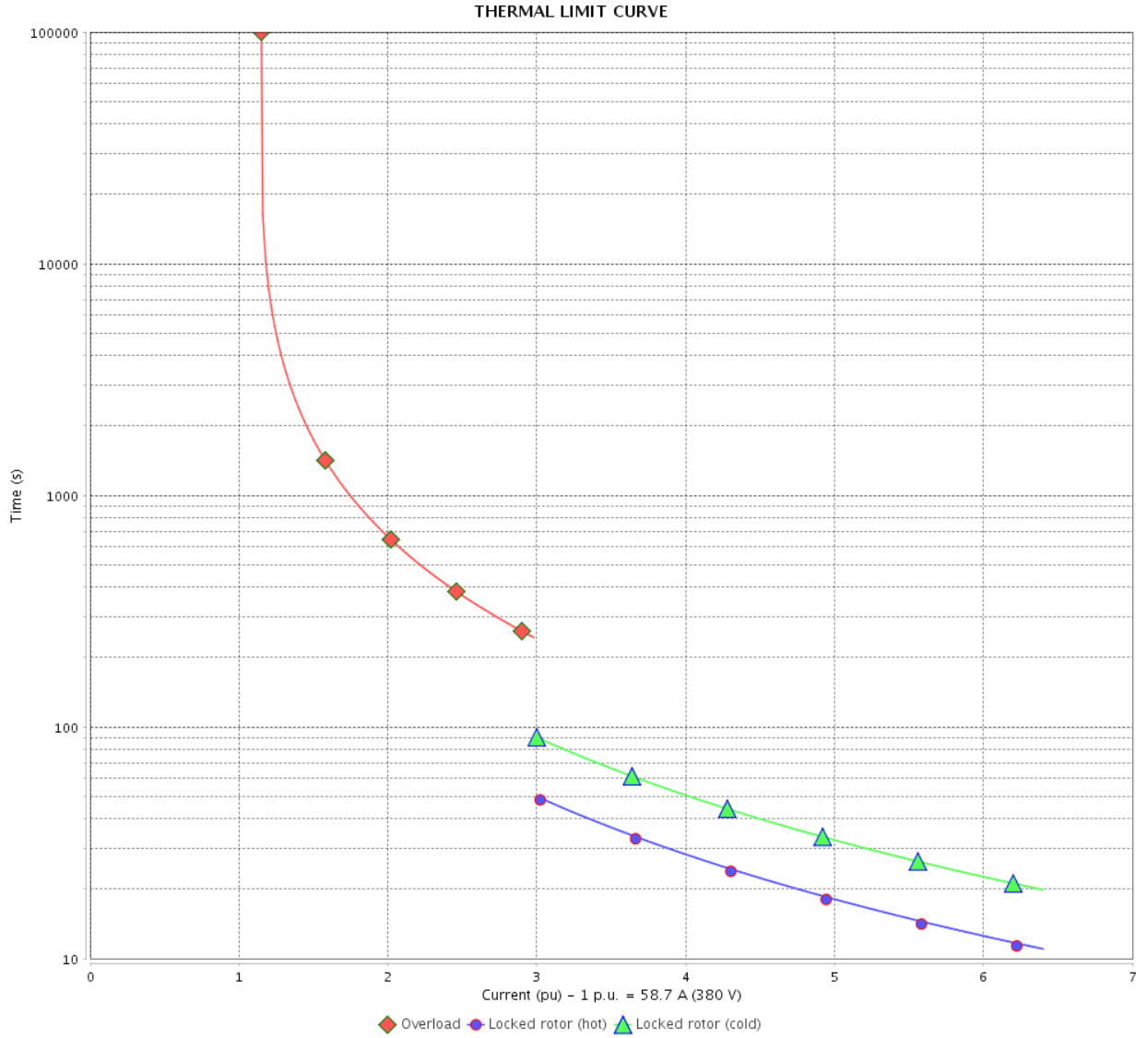
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| | | | |
|---------------------|-------------|-----------------------|-----------------|
| Rated current | : 57.1 A | Moment of inertia (J) | : 9.16 sq.ft.lb |
| LRC | : 7.0 | Duty cycle | : Cont.(S1) |
| Rated torque | : 142 ft.lb | Insulation class | : F |
| Locked rotor torque | : 250 % | Service factor | : 1.00 |
| Breakdown torque | : 300 % | Temperature rise | : 80 K |
| Rated speed | : 1475 rpm | Design | : B |

Heating constant

Cooling constant

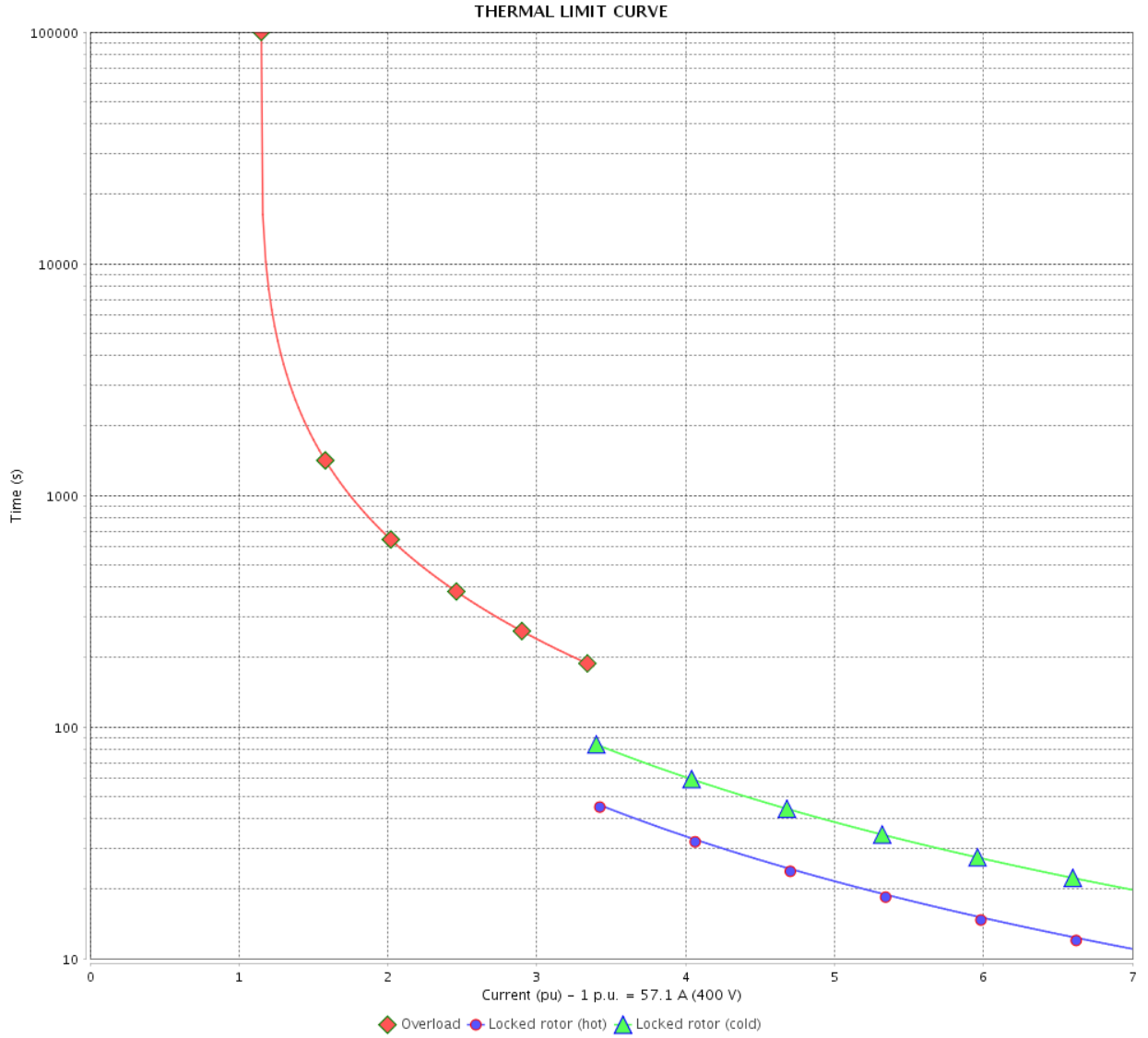
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|--------------|-----------------|-----------|---------|----------|
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| Checked by | | | Page | Revision |
| Date | 12/04/2022 | | 20 / 36 | |

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 : 11625961
Catalog # : 05018ET3ER326TC-W22

Performance : 415 V 50 Hz 4P IE3

| | |
|-----------------------------|---------------------------------------|
| Rated current : 56.4 A | Moment of inertia (J) : 9.16 sq.ft.lb |
| LRC : 7.4 | Duty cycle : Cont.(S1) |
| Rated torque : 142 ft.lb | Insulation class : F |
| Locked rotor torque : 260 % | Service factor : 1.00 |
| Breakdown torque : 330 % | Temperature rise : 80 K |
| Rated speed : 1478 rpm | Design : B |

Heating constant

Cooling constant

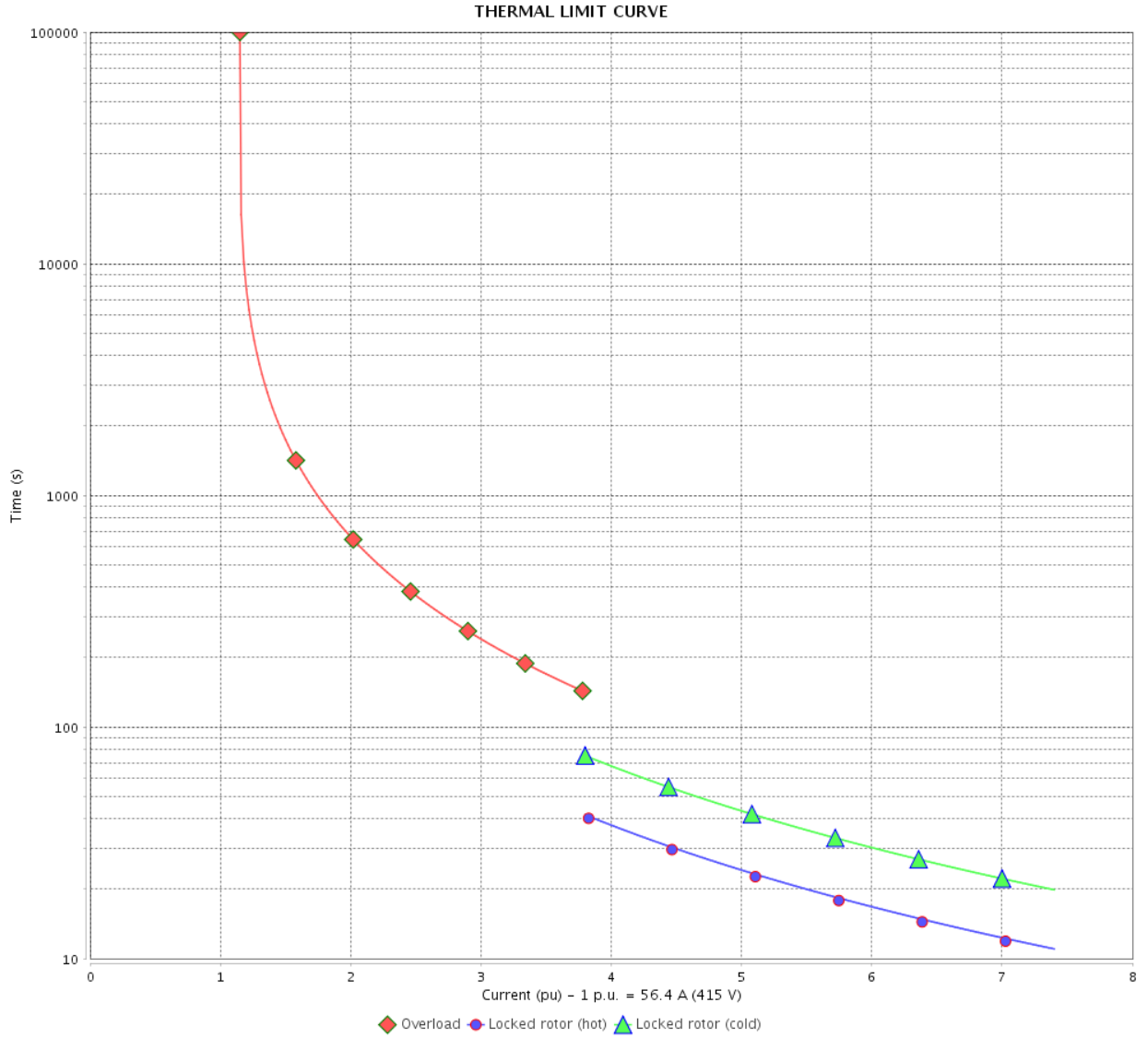
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| Checked by | | | | |
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THERMAL LIMIT CURVE

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 : 11625961
 Catalog # : 05018ET3ER326TC-W22

Performance : 380 V 50 Hz 4P IE1

| | |
|-----------------------------|---------------------------------------|
| Rated current : 71.6 A | Moment of inertia (J) : 9.16 sq.ft.lb |
| LRC : 5.2 | Duty cycle : Cont.(S1) |
| Rated torque : 180 ft.lb | Insulation class : F |
| Locked rotor torque : 180 % | Service factor : 1.00 |
| Breakdown torque : 210 % | Temperature rise : 105 K |
| Rated speed : 1460 rpm | Design : B |

Heating constant

Cooling constant

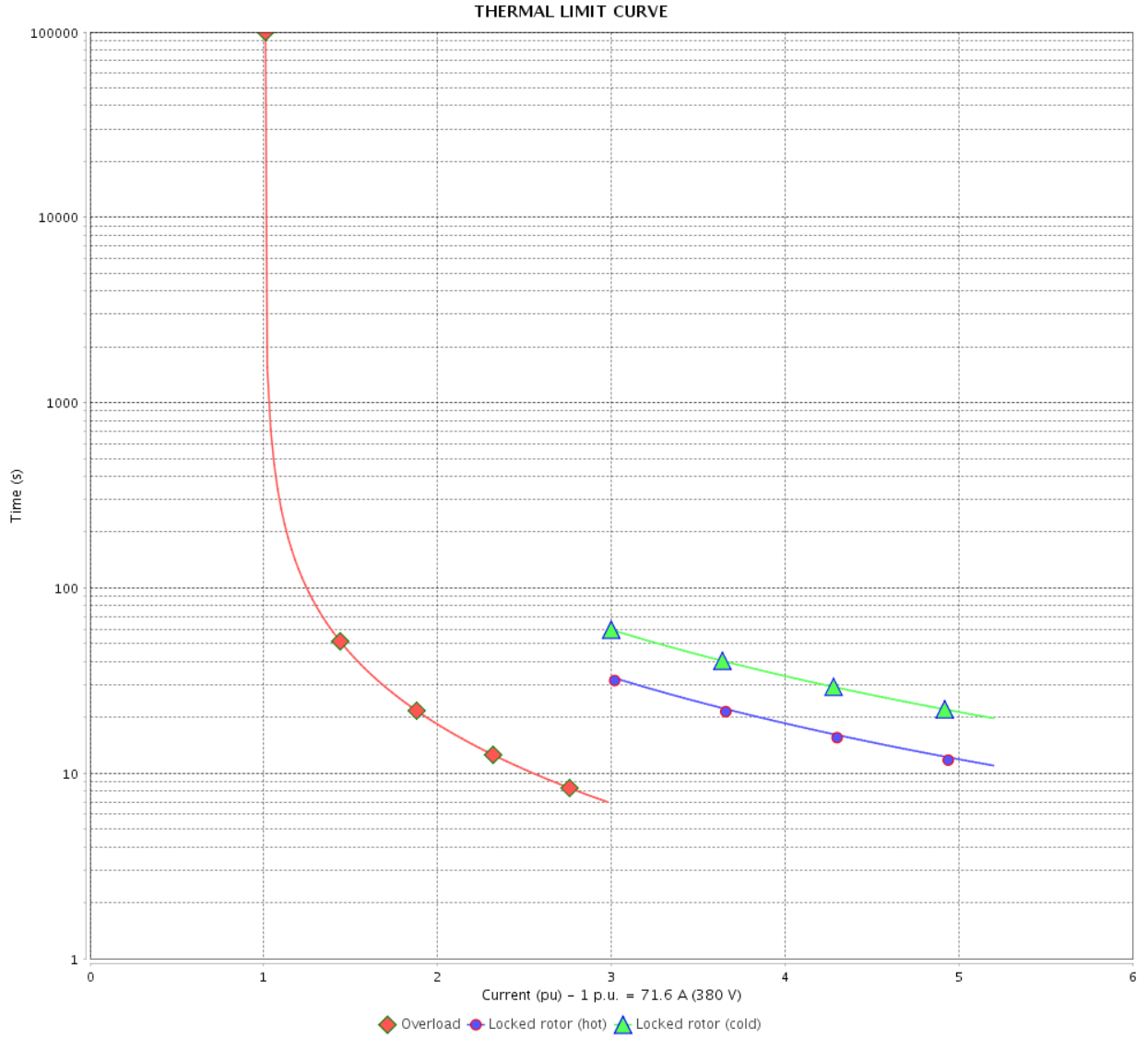
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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| Performed by | | Page | | Revision |
| Checked by | | | | |
| Date | | | | |

THERMAL LIMIT CURVE



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase
Product code : 11625961
Catalog # : 05018ET3ER326TC-W22

Performance : 400 V 50 Hz 4P IE2

| | | | |
|---------------------|-------------|-----------------------|-----------------|
| Rated current | : 68.4 A | Moment of inertia (J) | : 9.16 sq.ft.lb |
| LRC | : 5.8 | Duty cycle | : Cont.(S1) |
| Rated torque | : 179 ft.lb | Insulation class | : F |
| Locked rotor torque | : 200 % | Service factor | : 1.00 |
| Breakdown torque | : 240 % | Temperature rise | : 105 K |
| Rated speed | : 1465 rpm | Design | : B |

Heating constant

Cooling constant

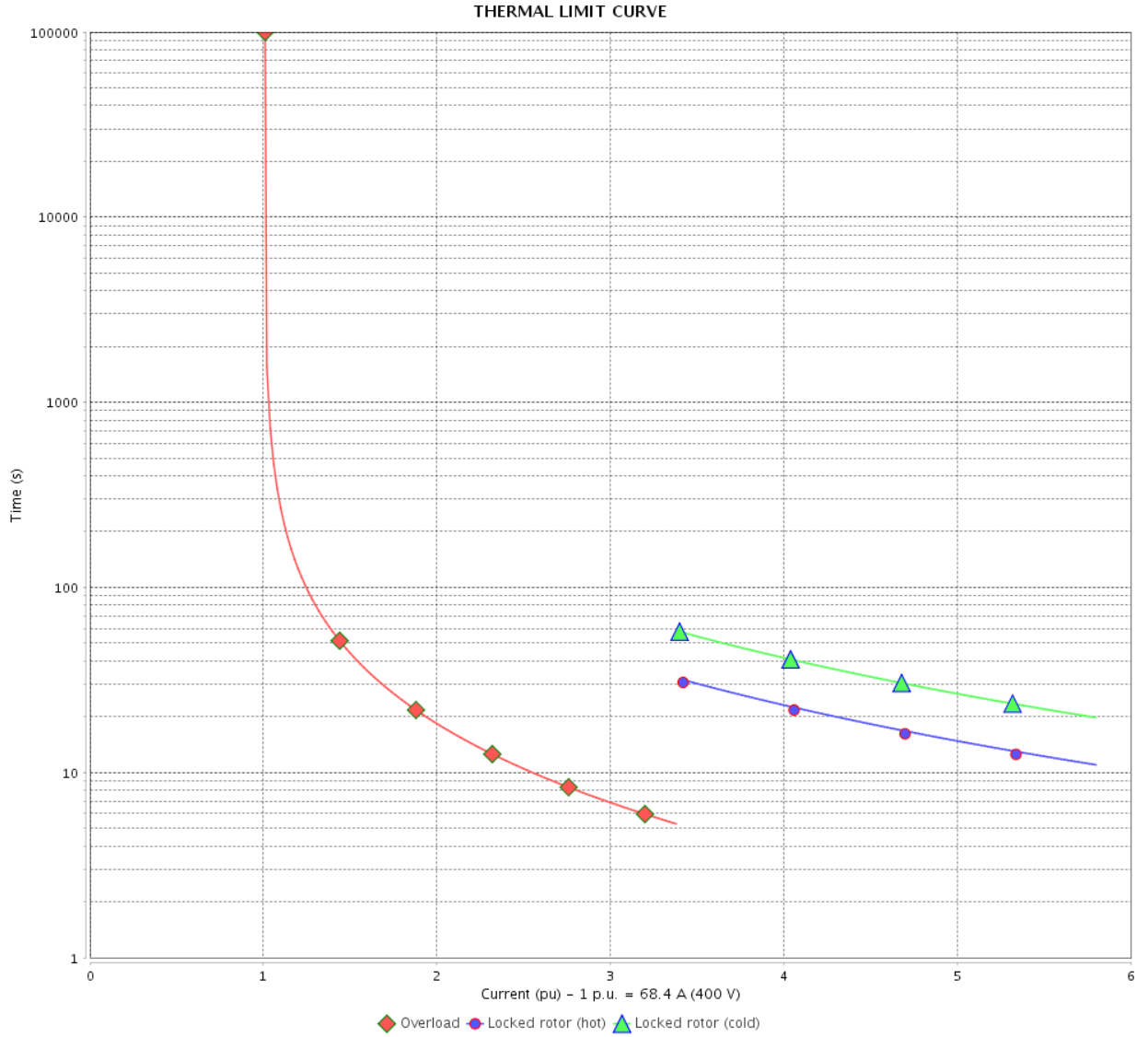
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THERMAL LIMIT CURVE

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 : 11625961
 Catalog # : 05018ET3ER326TC-W22

Performance : 415 V 50 Hz 4P IE2

| | |
|-----------------------------|---------------------------------------|
| Rated current : 66.3 A | Moment of inertia (J) : 9.16 sq.ft.lb |
| LRC : 6.2 | Duty cycle : Cont.(S1) |
| Rated torque : 179 ft.lb | Insulation class : F |
| Locked rotor torque : 210 % | Service factor : 1.00 |
| Breakdown torque : 260 % | Temperature rise : 105 K |
| Rated speed : 1470 rpm | Design : B |

Heating constant

Cooling constant

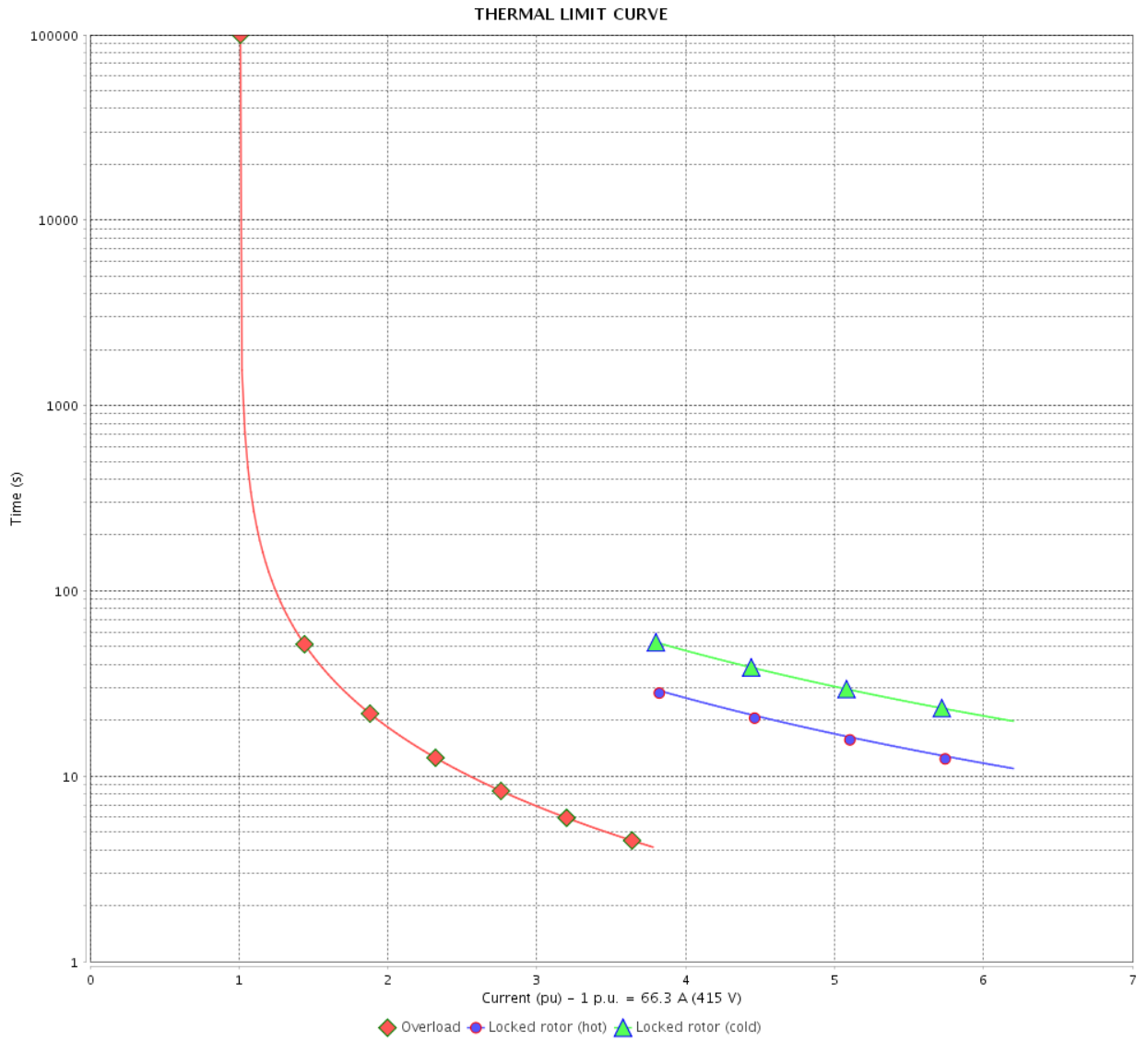
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| Checked by | | | | |
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



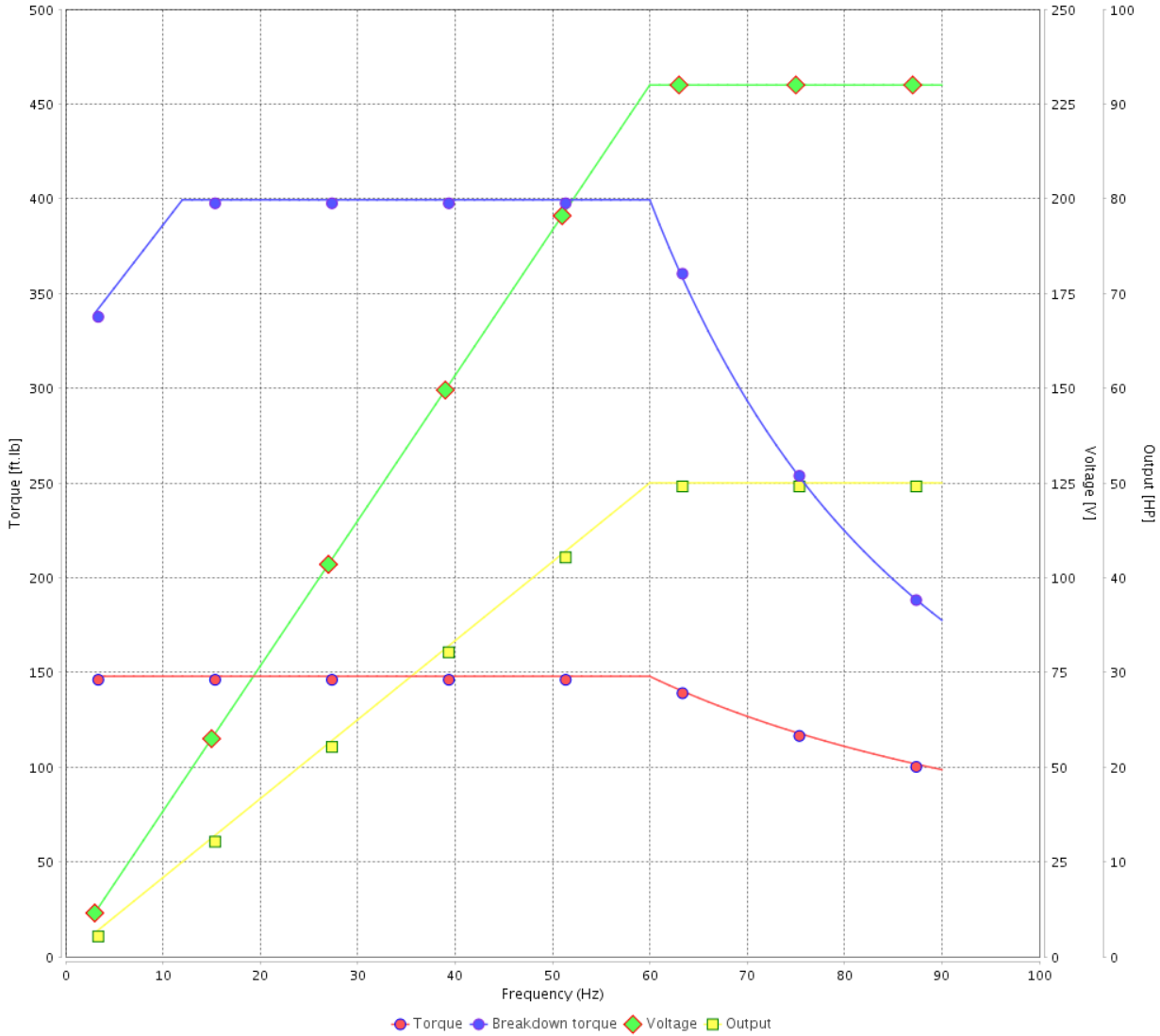
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11625961

Catalog # : 05018ET3ER326TC-W22

VFD OPERATION CURVE



Performance : 230/460 V 60 Hz 4P

Rated current : 118/59.2 A
 LRC : 6.2
 Rated torque : 148 ft.lb
 Locked rotor torque : 229 %
 Breakdown torque : 270 %
 Rated speed : 1775 rpm

Moment of inertia (J) : 9.16 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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| Date | | | | |

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

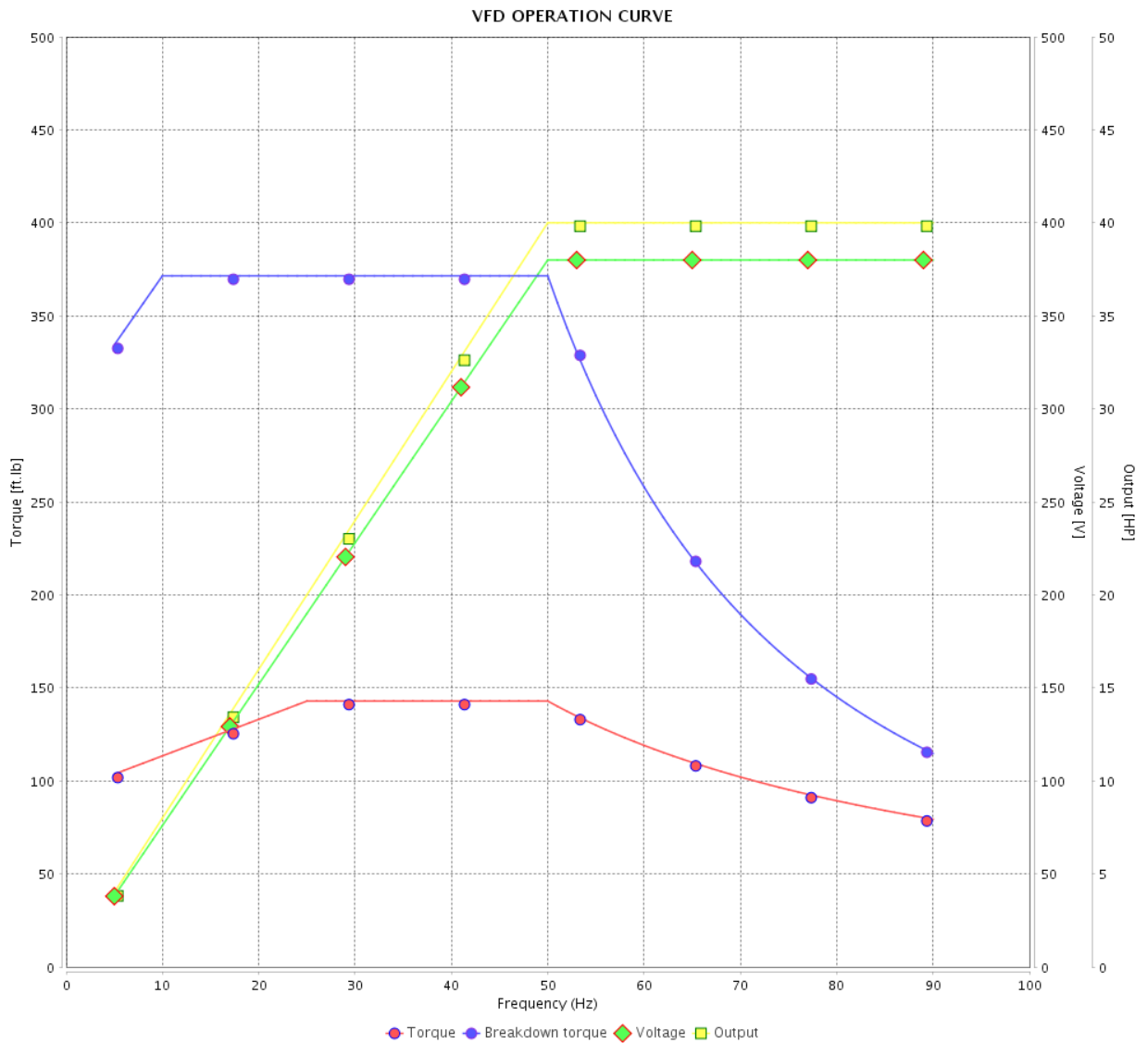


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11625961

Catalog # : 05018ET3ER326TC-W22



Performance : 380 V 50 Hz 4P IE3

Rated current : 58.7 A
 LRC : 6.4
 Rated torque : 143 ft.lb
 Locked rotor torque : 229 %
 Breakdown torque : 260 %
 Rated speed : 1470 rpm

Moment of inertia (J) : 9.16 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



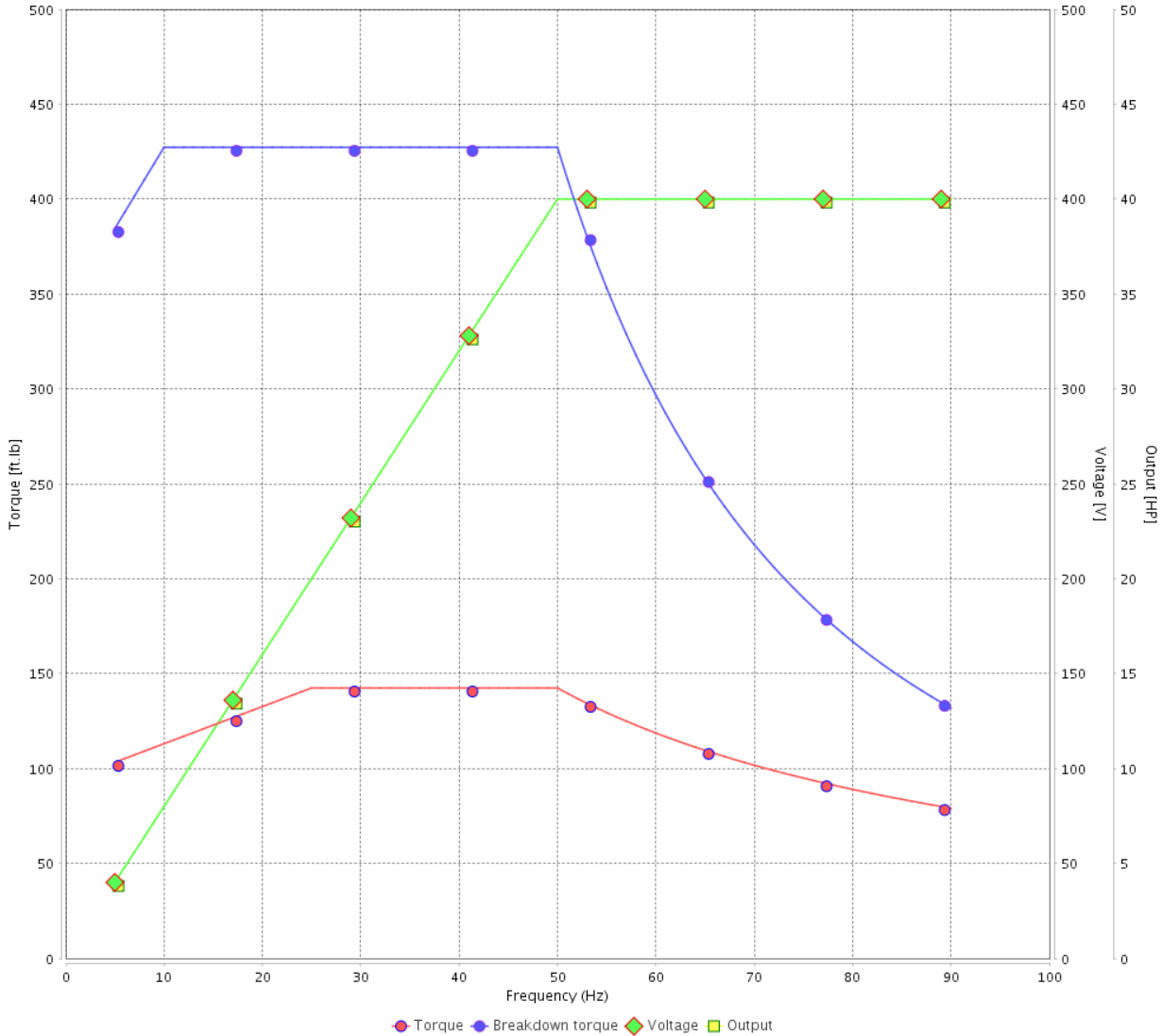
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11625961

Catalog # : 05018ET3ER326TC-W22

VFD OPERATION CURVE



Performance : 400 V 50 Hz 4P IE3

Rated current : 57.1 A
 LRC : 7.0
 Rated torque : 142 ft.lb
 Locked rotor torque : 250 %
 Breakdown torque : 300 %
 Rated speed : 1475 rpm

Moment of inertia (J) : 9.16 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

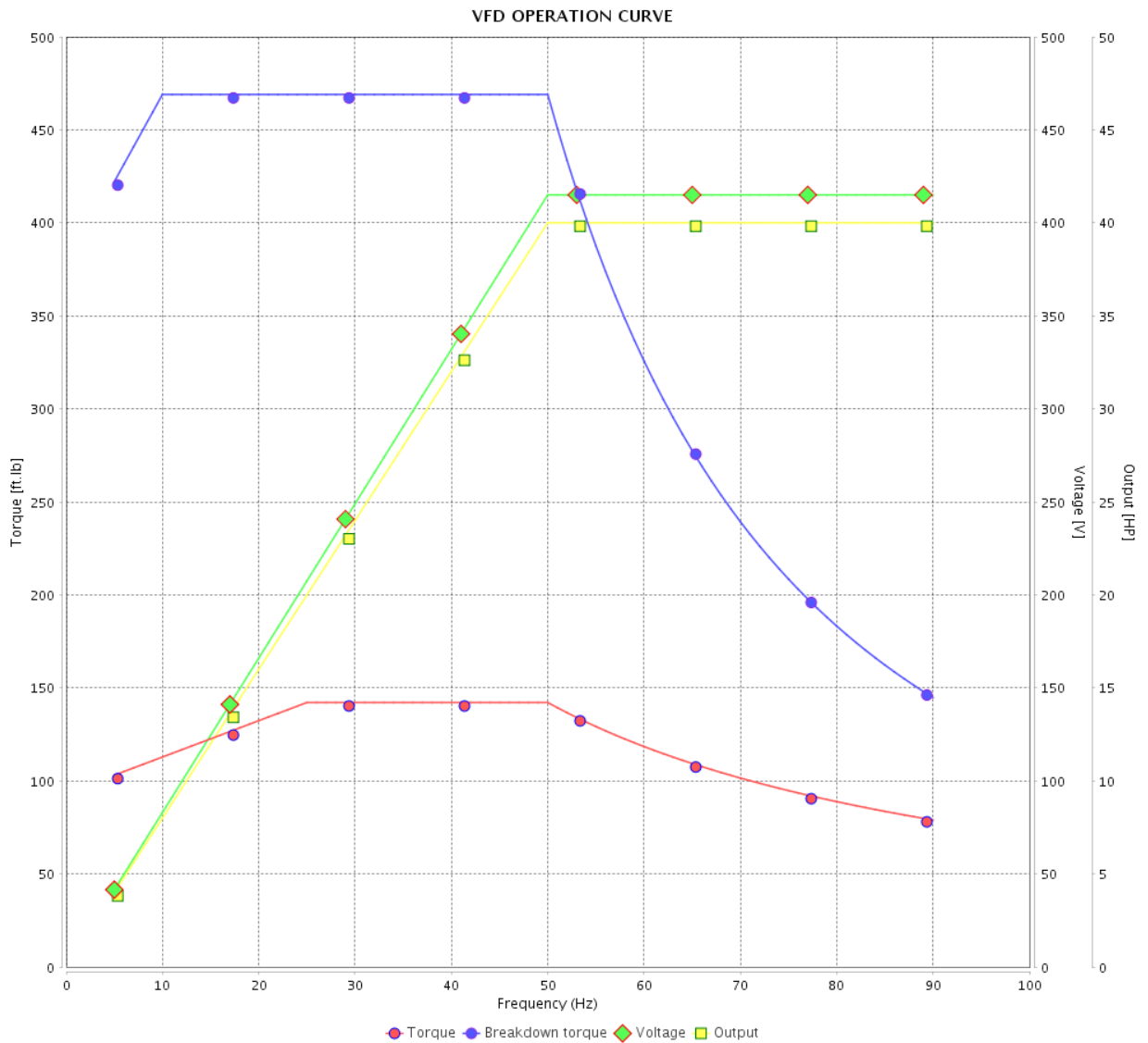


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11625961

Catalog # : 05018ET3ER326TC-W22



Performance : 415 V 50 Hz 4P IE3

Rated current : 56.4 A
 LRC : 7.4
 Rated torque : 142 ft.lb
 Locked rotor torque : 260 %
 Breakdown torque : 330 %
 Rated speed : 1478 rpm

Moment of inertia (J) : 9.16 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 | Revision |
| Checked by | | | | |
| Date | | | | |

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

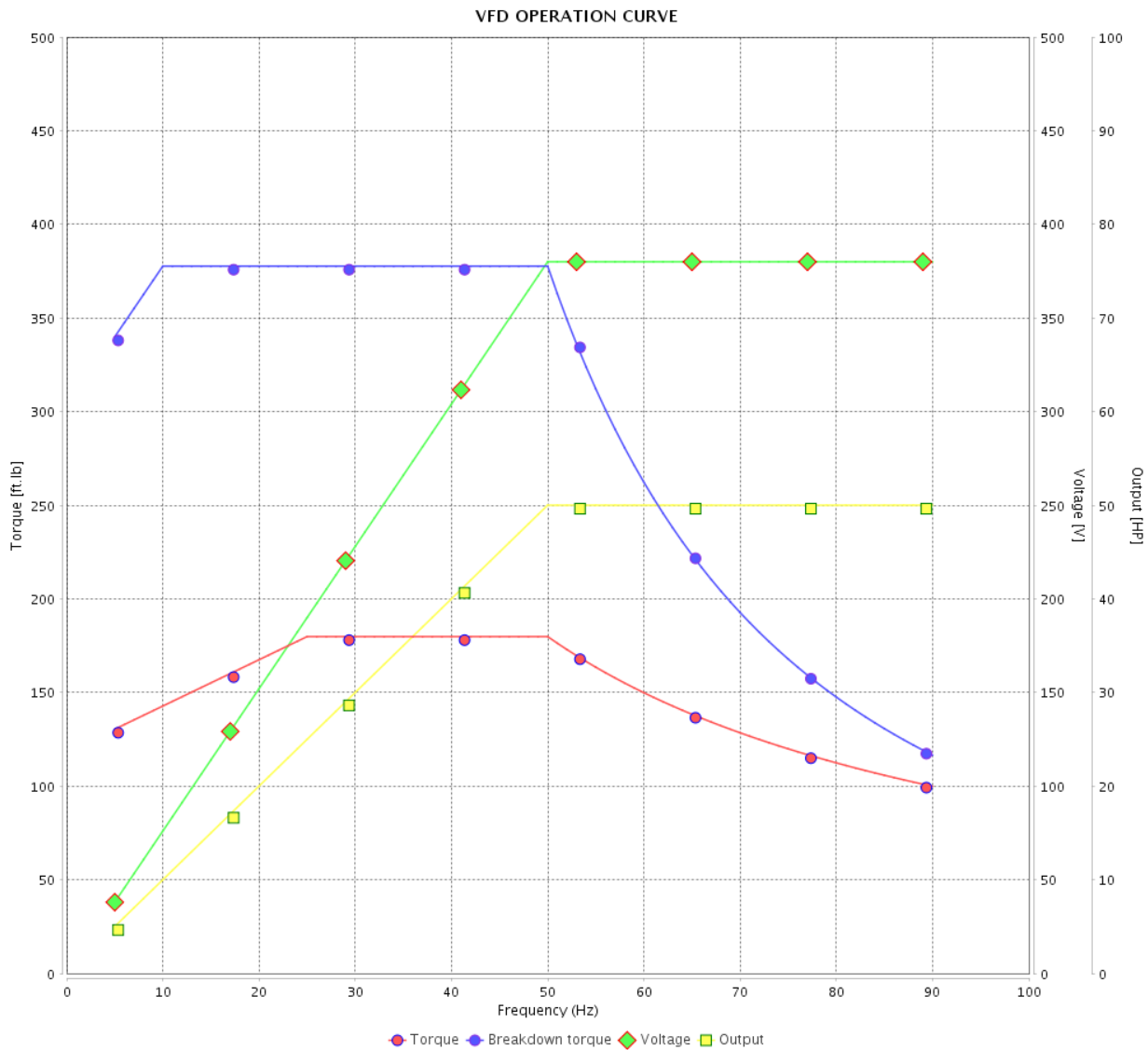


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11625961

Catalog # : 05018ET3ER326TC-W22



Performance : 380 V 50 Hz 4P IE1

| | | | |
|---------------------|-------------|-----------------------|-----------------|
| Rated current | : 71.6 A | Moment of inertia (J) | : 9.16 sq.ft.lb |
| LRC | : 5.2 | Duty cycle | : Cont.(S1) |
| Rated torque | : 180 ft.lb | Insulation class | : F |
| Locked rotor torque | : 180 % | Service factor | : 1.00 |
| Breakdown torque | : 210 % | Temperature rise | : 105 K |
| Rated speed | : 1460 rpm | Design | : B |

| Rev. | Changes Summary | Performed | Checked | Date |
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

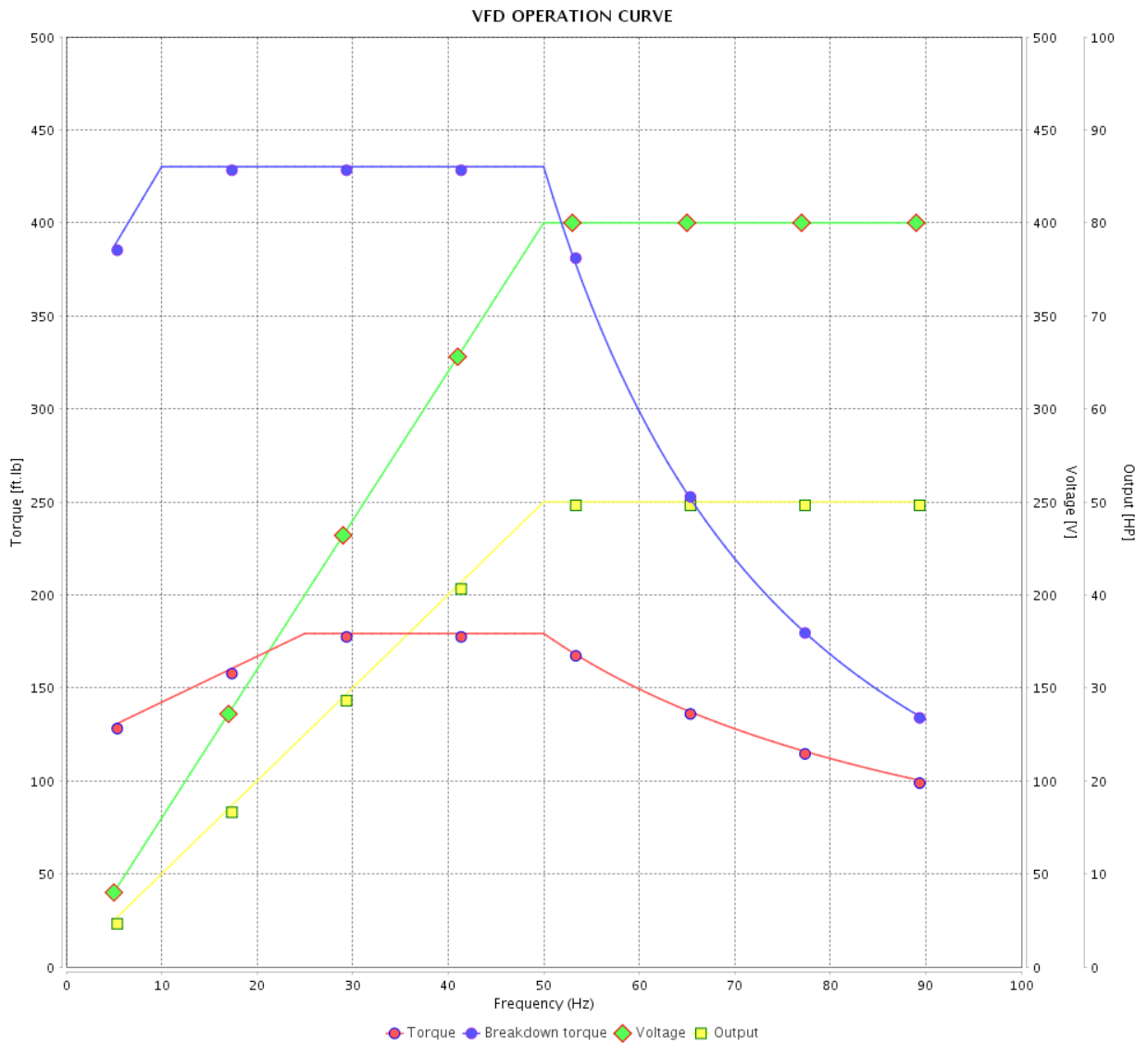


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11625961

Catalog # : 05018ET3ER326TC-W22



Performance : 400 V 50 Hz 4P IE2

Rated current : 68.4 A
 LRC : 5.8
 Rated torque : 179 ft.lb
 Locked rotor torque : 200 %
 Breakdown torque : 240 %
 Rated speed : 1465 rpm

Moment of inertia (J) : 9.16 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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| Date | | 12/04/2022 | | |

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

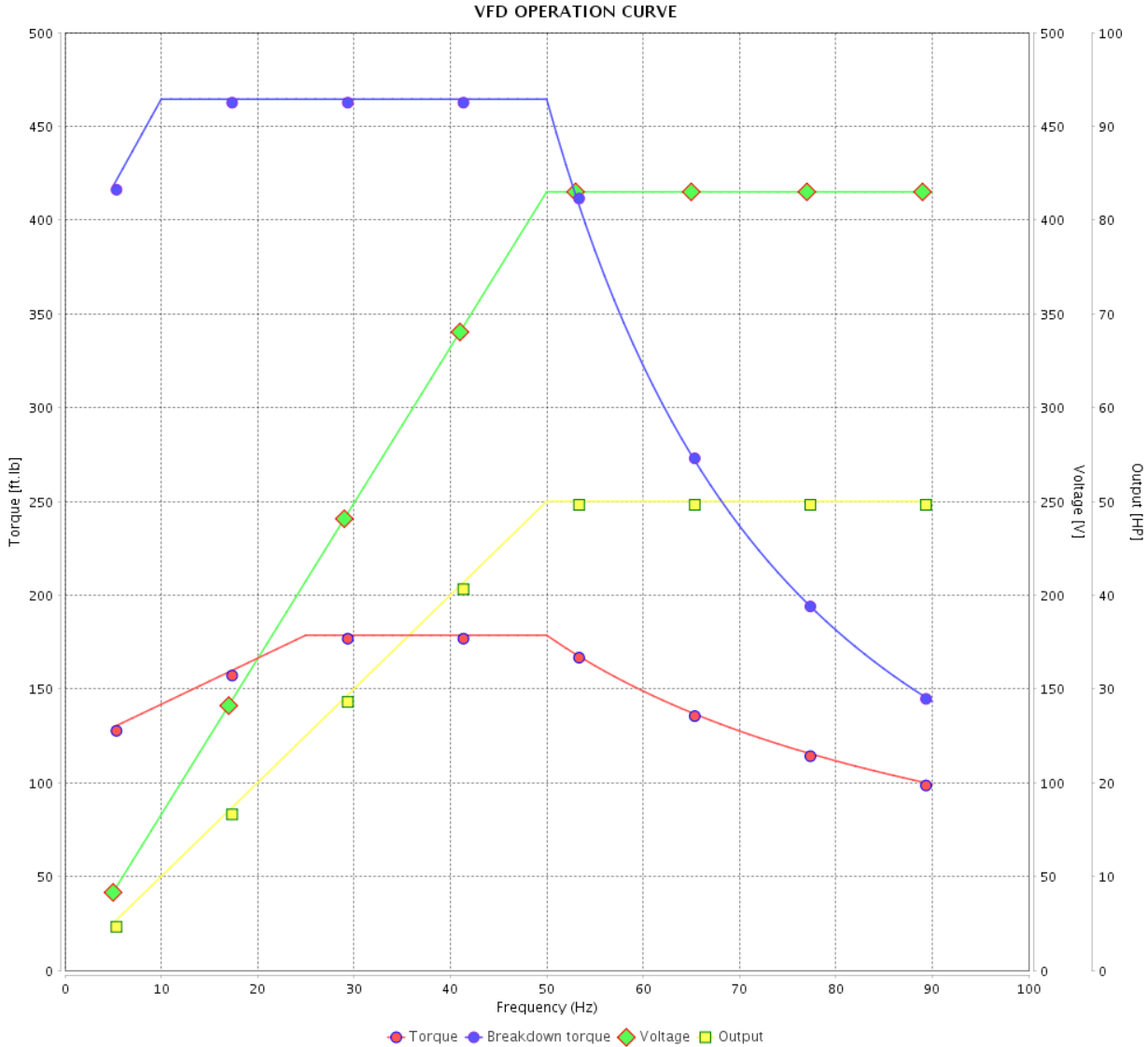


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11625961

Catalog # : 05018ET3ER326TC-W22

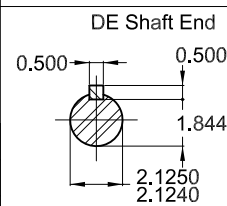
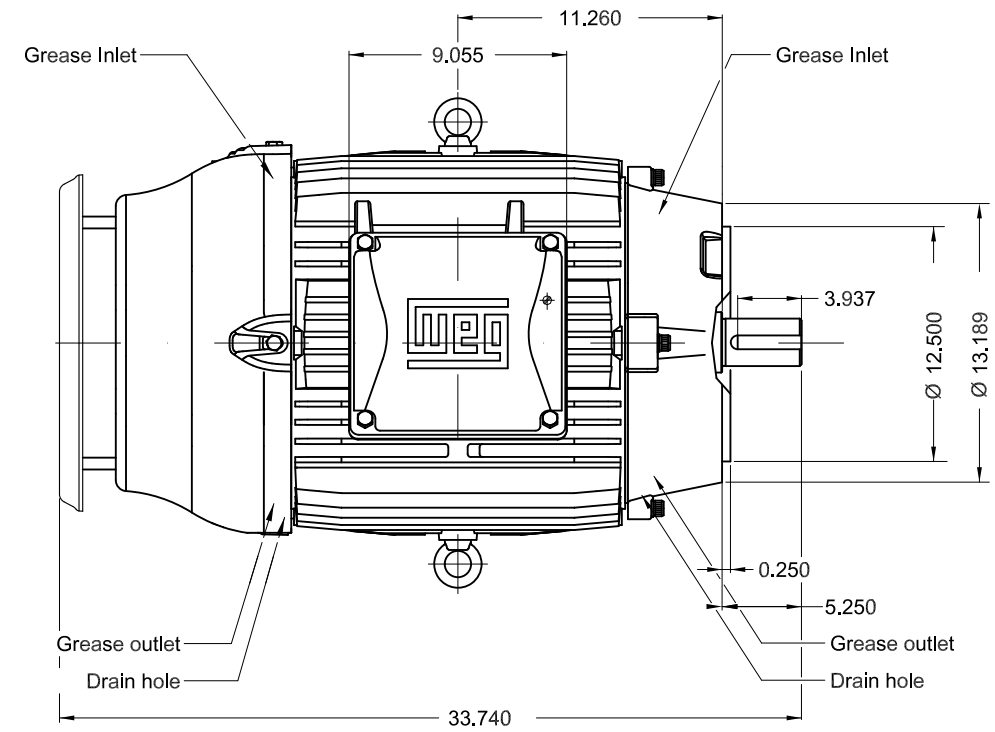
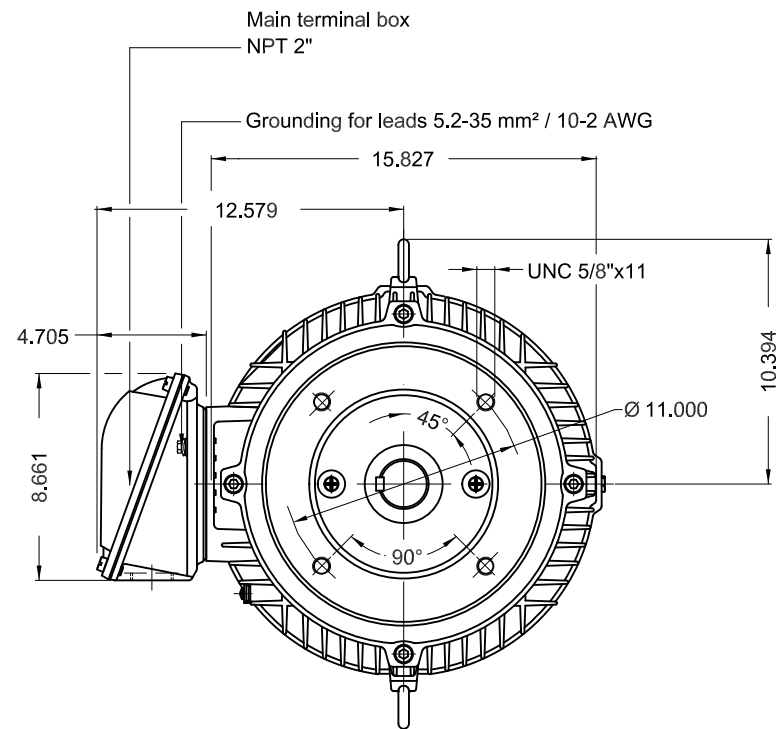


Performance : 415 V 50 Hz 4P IE2

Rated current : 66.3 A
 LRC : 6.2
 Rated torque : 179 ft.lb
 Locked rotor torque : 210 %
 Breakdown torque : 260 %
 Rated speed : 1470 rpm

Moment of inertia (J) : 9.16 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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Color RAL 5009
 Painting plan 203A
 Mounting V18

50 HP 04 Poles 60 Hz

Dimensions in inches

| ECM | LOC | SUMMARY OF MODIFICATIONS | EXECUTED | CHECKED | RELEASED | DATE | VER |
|----------|-----------|--------------------------------|---------------------|---------|----------|------|-----|
| EXECUTED | PIRWBUSER | THREE PH. MOTOR W22 PREM. EFF. | | | | | |
| CHECKED | | FRAME 326TC IP55 TEFC | | | | | |
| RELEASED | | | | | | | |
| REL DT. | WMO | Jaragua do Sul | Product Engineering | | | | |

PREVIEW
 WDD



SHEET 1 / 1