

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



| | | | | | | | |
|--|---------------------------------------|-----------------------------|-------------------------|--|-------------------------|-------------------------|-------------------------|
| Customer : | | | | | | | |
| Product line | : NEMA Premium Efficiency Three-Phase | Product code : | 11901219 | | | | |
| | | Catalog # : | 02018ET3E256JP-W22 | | | | |
| Frame | : 254/6JP | 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 | : 342 lb | | | | |
| Protection degree | : IP55 | Moment of inertia (J) | : 3.10 sq.ft.lb | | | | |
| Design | : B | | | | | | |
| Output [HP] | 20 | 15 | 15 | 15 | 20 | 20 | 20 |
| 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] | 48.2/24.1 | 21.8 | 21.2 | 20.6 | 29.4 | 28.0 | 27.1 |
| L. R. Amperes [A] | 333/166 | 161 | 167 | 173 | 168 | 174 | 179 |
| LRC [A] | 6.9x(Code H) | 7.4x(Code H) | 7.9x(Code J) | 8.4x(Code K) | 5.7x(Code F) | 6.2x(Code G) | 6.6x(Code H) |
| No load current [A] | 19.2/9.60 | 9.90 | 10.5 | 11.0 | 9.90 | 10.5 | 11.0 |
| Rated speed [RPM] | 1770 | 1470 | 1475 | 1477 | 1455 | 1460 | 1465 |
| Slip [%] | 1.67 | 2.00 | 1.67 | 1.53 | 3.00 | 2.67 | 2.33 |
| Rated torque [ft.lb] | 59.3 | 53.6 | 53.4 | 53.3 | 72.2 | 71.9 | 71.7 |
| Locked rotor torque [%] | 240 | 250 | 280 | 300 | 190 | 210 | 229 |
| Breakdown torque [%] | 260 | 290 | 320 | 340 | 210 | 229 | 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 | 54s (cold) 30s (hot) | 59s (cold) 33s (hot) | 55s (cold) 31s (hot) | 52s (cold) 29s (hot) | 39s (cold) 22s (hot) | 37s (cold) 21s (hot) | 36s (cold) 20s (hot) |
| Noise level ² | 64.0 dB(A) | 61.0 dB(A) | 61.0 dB(A) | 61.0 dB(A) | 61.0 dB(A) | 61.0 dB(A) | 61.0 dB(A) |
| Efficiency (%) | 25% | 91.0 | 90.9 | 89.2 | 89.2 | 92.3 | 90.8 |
| | 50% | 91.7 | 91.0 | 89.8 | 89.8 | 91.7 | 91.0 |
| | 75% | 92.4 | 91.5 | 91.0 | 91.3 | 91.0 | 91.0 |
| | 100% | 93.0 | 91.4 | 91.4 | 91.7 | 90.2 | 91.0 |
| Power Factor | 25% | 0.43 | 0.40 | 0.37 | 0.35 | 0.49 | 0.46 |
| | 50% | 0.68 | 0.65 | 0.62 | 0.60 | 0.75 | 0.72 |
| | 75% | 0.79 | 0.78 | 0.75 | 0.73 | 0.83 | 0.81 |
| | 100% | 0.84 | 0.84 | 0.82 | 0.81 | 0.86 | 0.85 |
| Bearing type | : Drive end : 6309 C3 | Non drive end : 6209 C3 | Foundation loads | | | | |
| Sealing | : V'Ring | V'Ring | Max. traction | : 723 lb | | | |
| Lubrication interval | : 20000 h | 20000 h | Max. compression | : 1065 lb | | | |
| Lubricant amount | : 13 g | 9 g | | | | | |
| Lubricant type | : Mobil Polyrex EM | | | | | | |
| Notes USABLE @208V 53.3A SF 1.15 SFA 61.3A | | | | | | | |
| 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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| Checked by | | | | | Page | Revision | |
| Date | 14/04/2022 | | | | 1 / 36 | | |

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



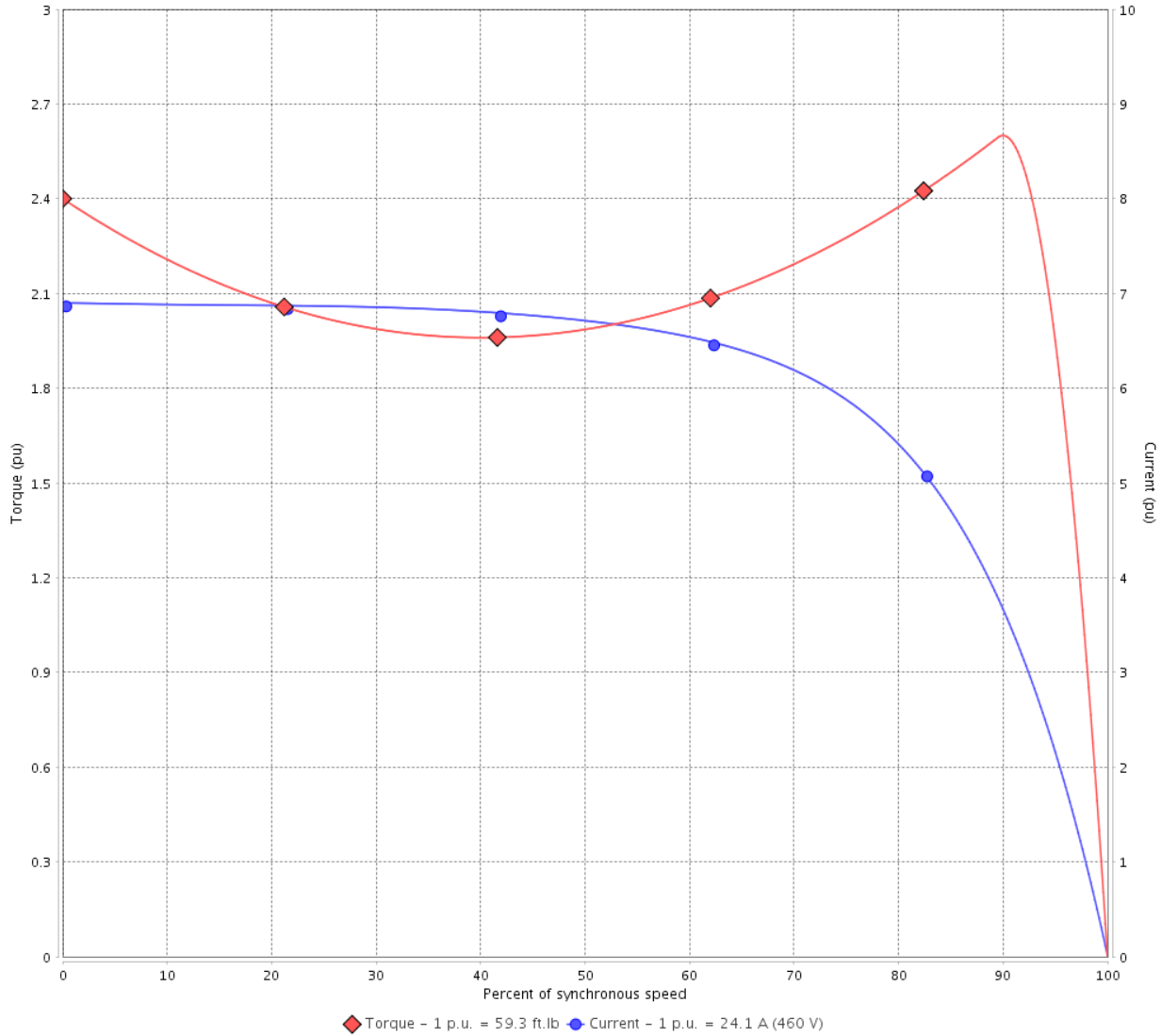
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11901219

Catalog # : 02018ET3E256JP-W22

TORQUE AND CURRENT VS SPEED CURVE



Performance : 230/460 V 60 Hz 4P

| | | | |
|---------------------|---------------|-----------------------|-----------------|
| Rated current | : 48.2/24.1 A | Moment of inertia (J) | : 3.10 sq.ft.lb |
| LRC | : 6.9 | Duty cycle | : Cont.(S1) |
| Rated torque | : 59.3 ft.lb | Insulation class | : F |
| Locked rotor torque | : 240 % | Service factor | : 1.25 |
| Breakdown torque | : 260 % | Temperature rise | : 80 K |
| Rated speed | : 1770 rpm | Design | : B |

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

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TORQUE AND CURRENT VS SPEED CURVE



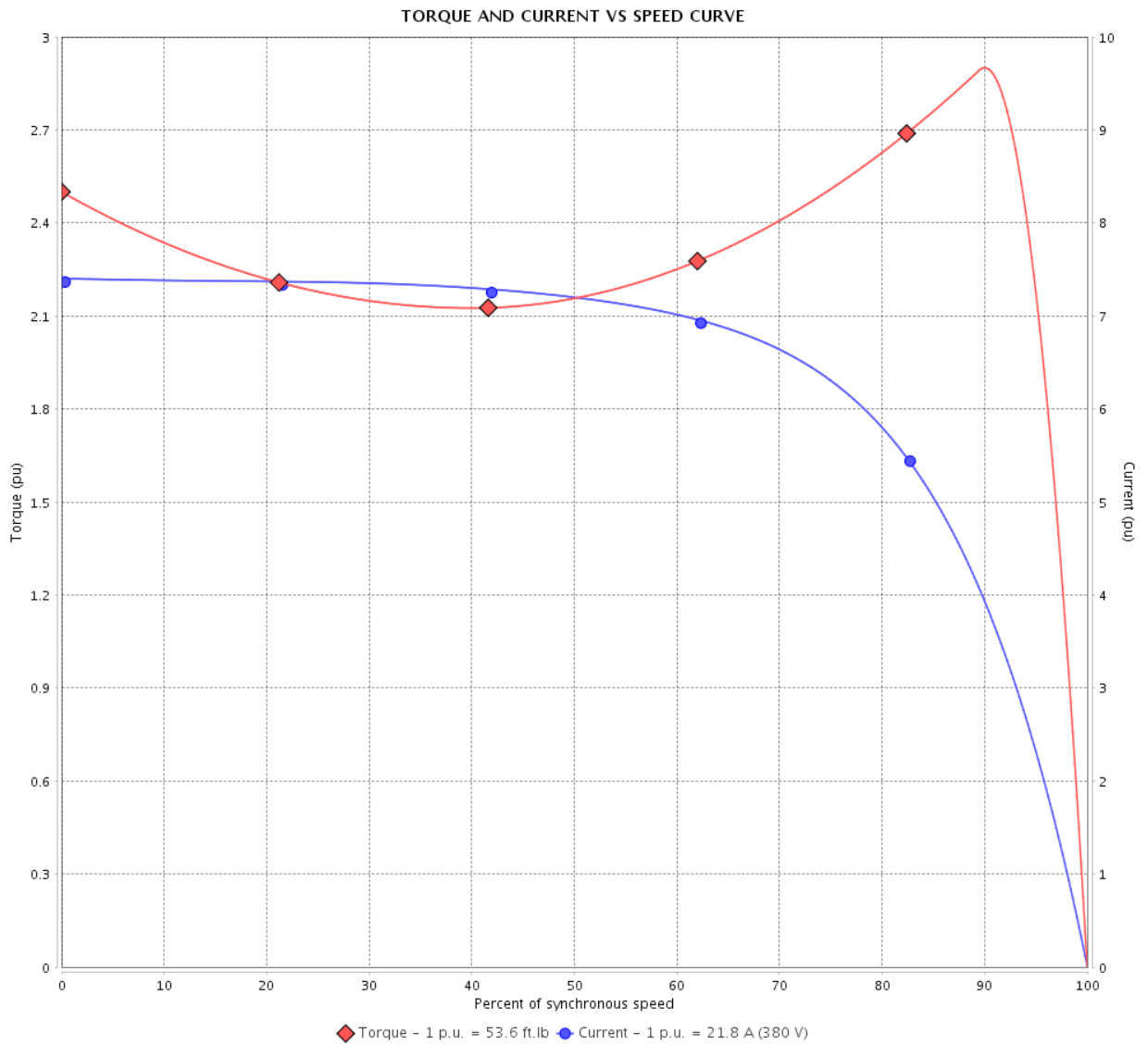
Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11901219

Catalog # : 02018ET3E256JP-W22



Performance : 380 V 50 Hz 4P IE3

Rated current : 21.8 A
 LRC : 7.4
 Rated torque : 53.6 ft.lb
 Locked rotor torque : 250 %
 Breakdown torque : 290 %
 Rated speed : 1470 rpm

Moment of inertia (J) : 3.10 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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

| Rev. | Changes Summary | Performed | Checked | Date |
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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



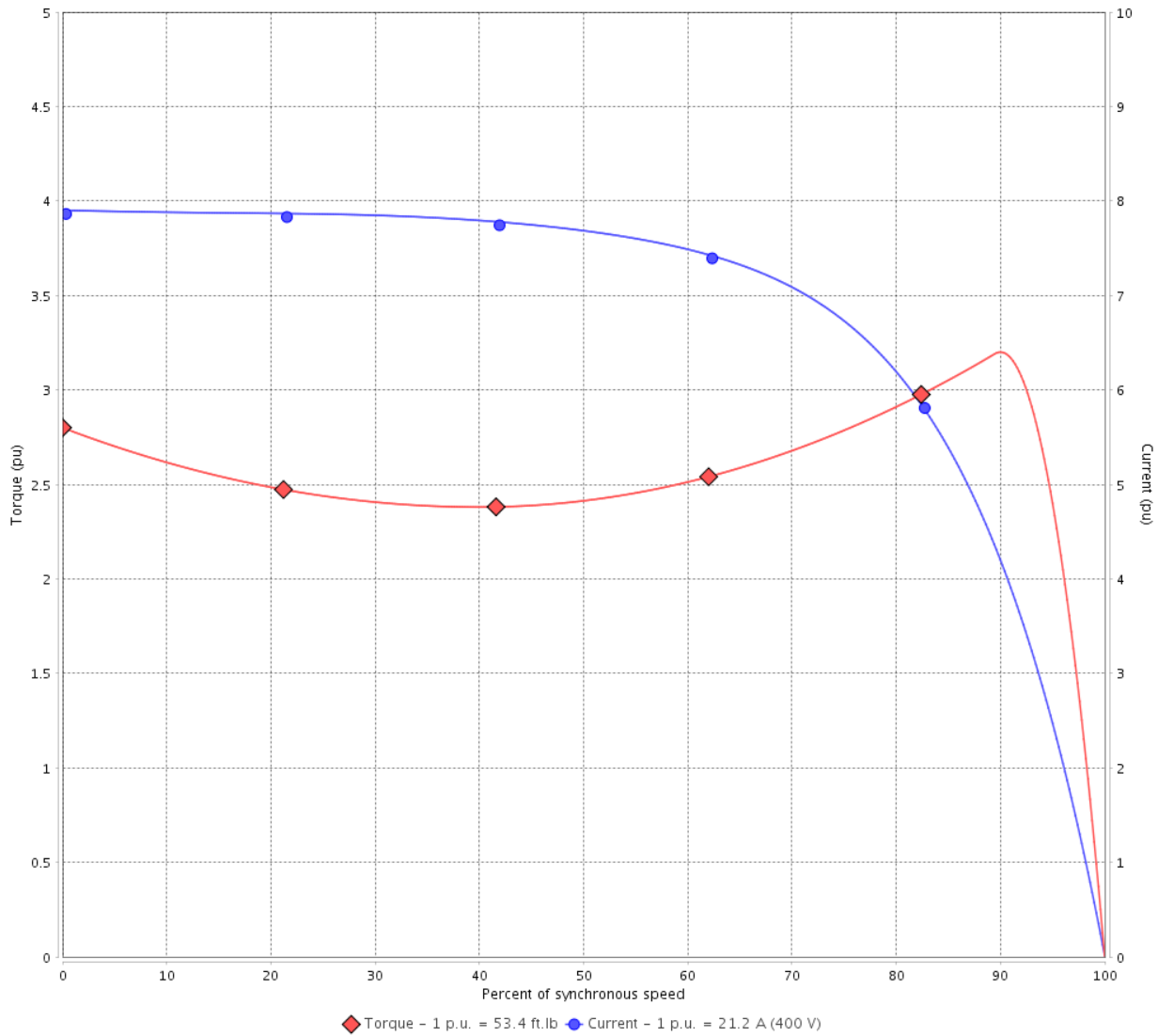
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11901219

Catalog # : 02018ET3E256JP-W22

TORQUE AND CURRENT VS SPEED CURVE



Performance : 400 V 50 Hz 4P IE3

| | | | |
|---------------------|--------------|-----------------------|-----------------|
| Rated current | : 21.2 A | Moment of inertia (J) | : 3.10 sq.ft.lb |
| LRC | : 7.9 | Duty cycle | : Cont.(S1) |
| Rated torque | : 53.4 ft.lb | Insulation class | : F |
| Locked rotor torque | : 280 % | Service factor | : 1.00 |
| Breakdown torque | : 320 % | Temperature rise | : 80 K |
| Rated speed | : 1475 rpm | Design | : B |

Locked rotor time : 55s (cold) 31s (hot)

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TORQUE AND CURRENT VS SPEED CURVE



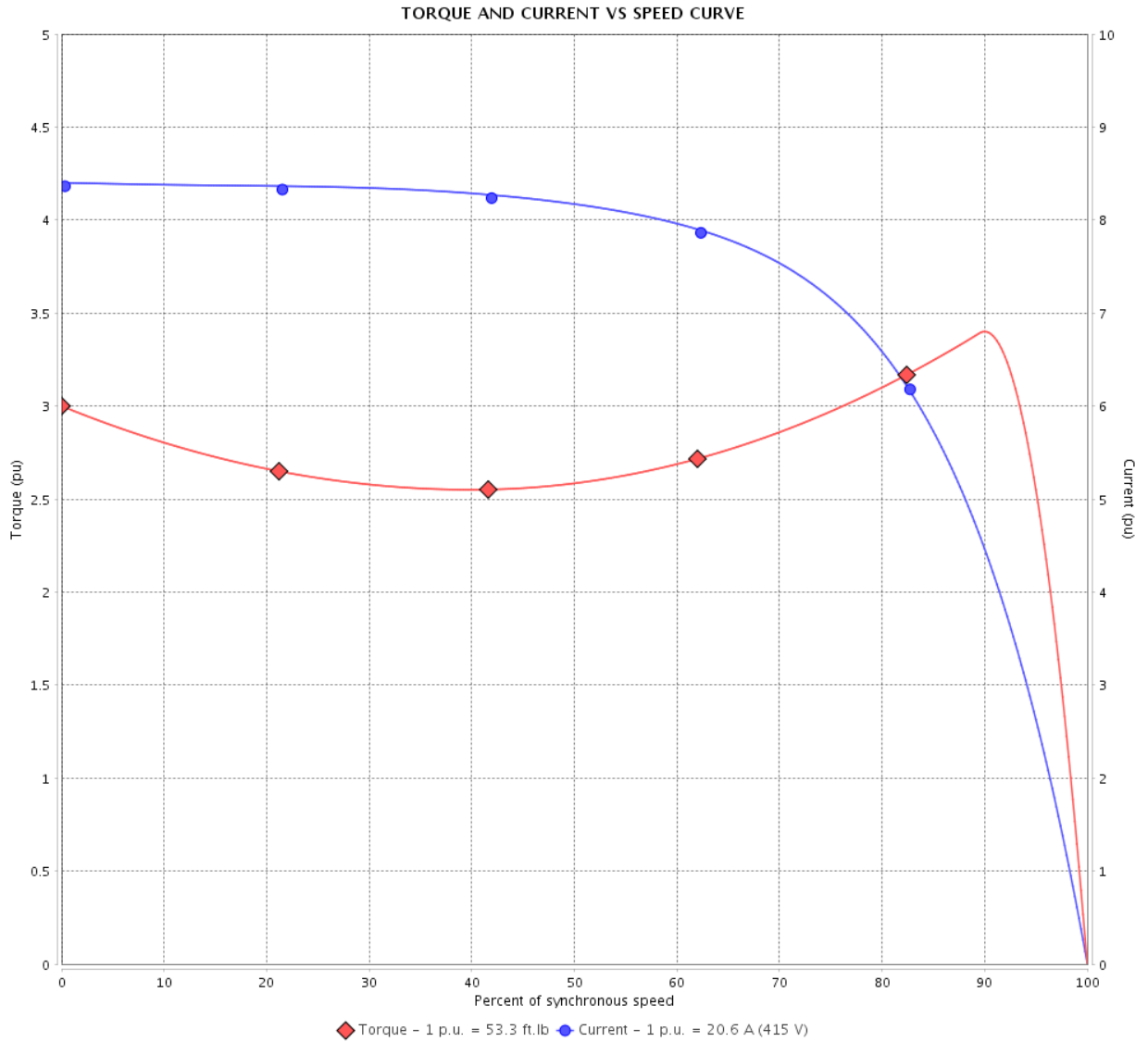
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Catalog # : 02018ET3E256JP-W22



Performance : 415 V 50 Hz 4P IE3

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|---------------------|--------------|-----------------------|-----------------|
| Rated current | : 20.6 A | Moment of inertia (J) | : 3.10 sq.ft.lb |
| LRC | : 8.4 | Duty cycle | : Cont.(S1) |
| Rated torque | : 53.3 ft.lb | Insulation class | : F |
| Locked rotor torque | : 300 % | Service factor | : 1.00 |
| Breakdown torque | : 340 % | Temperature rise | : 80 K |
| Rated speed | : 1477 rpm | Design | : B |

Locked rotor time : 52s (cold) 29s (hot)

| Rev. | Changes Summary | Performed | Checked | Date |
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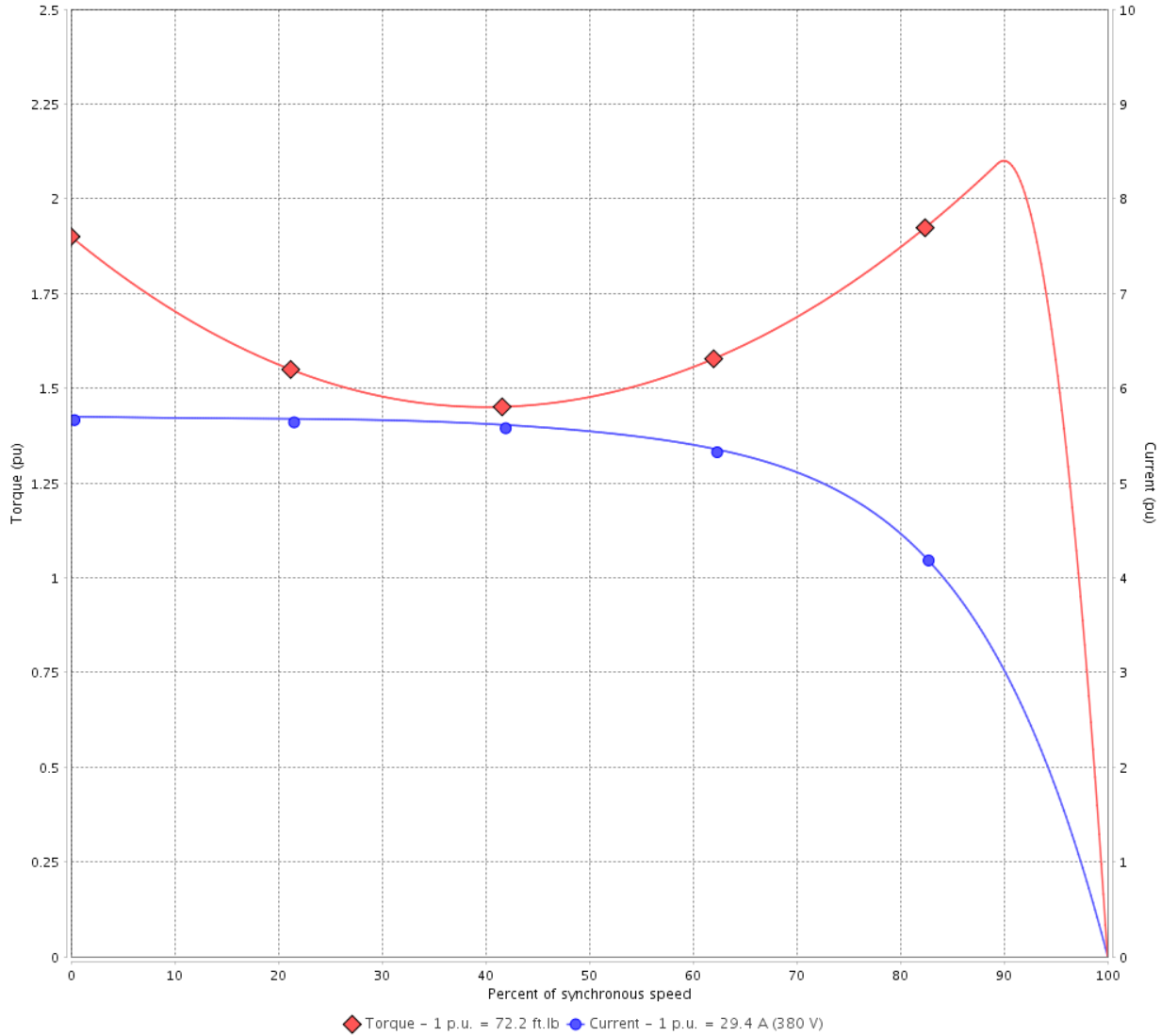
Customer :

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Product code : 11901219

Catalog # : 02018ET3E256JP-W22

TORQUE AND CURRENT VS SPEED CURVE



Performance : 380 V 50 Hz 4P IE1

| | | | |
|---------------------|--------------|-----------------------|-----------------|
| Rated current | : 29.4 A | Moment of inertia (J) | : 3.10 sq.ft.lb |
| LRC | : 5.7 | Duty cycle | : Cont.(S1) |
| Rated torque | : 72.2 ft.lb | Insulation class | : F |
| Locked rotor torque | : 190 % | Service factor | : 1.00 |
| Breakdown torque | : 210 % | Temperature rise | : 105 K |
| Rated speed | : 1455 rpm | Design | : B |

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

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TORQUE AND CURRENT VS SPEED CURVE



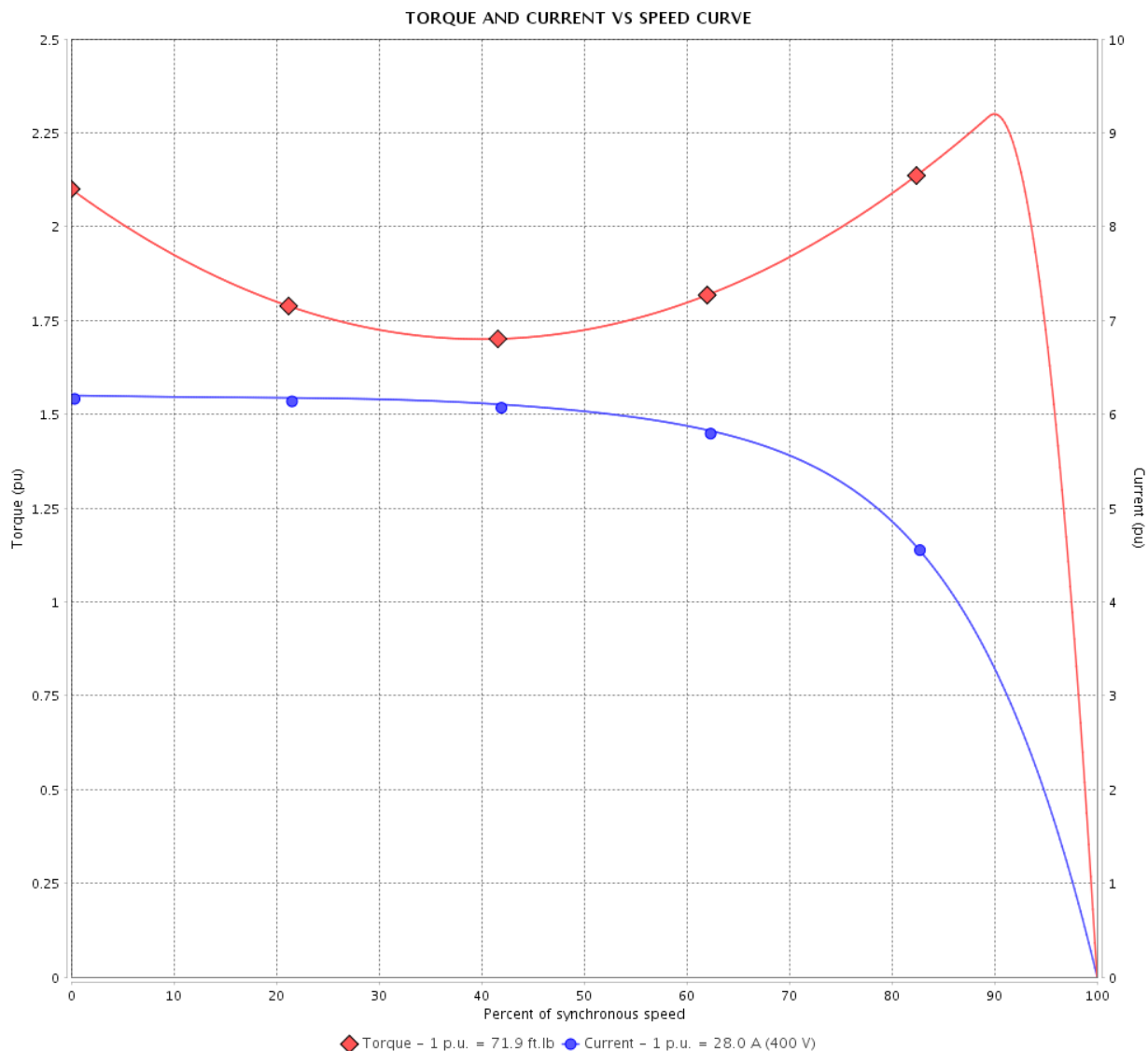
Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11901219

Catalog # : 02018ET3E256JP-W22



Performance : 400 V 50 Hz 4P IE2

| | | | |
|---------------------|--------------|-----------------------|-----------------|
| Rated current | : 28.0 A | Moment of inertia (J) | : 3.10 sq.ft.lb |
| LRC | : 6.2 | Duty cycle | : Cont.(S1) |
| Rated torque | : 71.9 ft.lb | Insulation class | : F |
| Locked rotor torque | : 210 % | Service factor | : 1.00 |
| Breakdown torque | : 229 % | Temperature rise | : 105 K |
| Rated speed | : 1460 rpm | Design | : B |

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

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



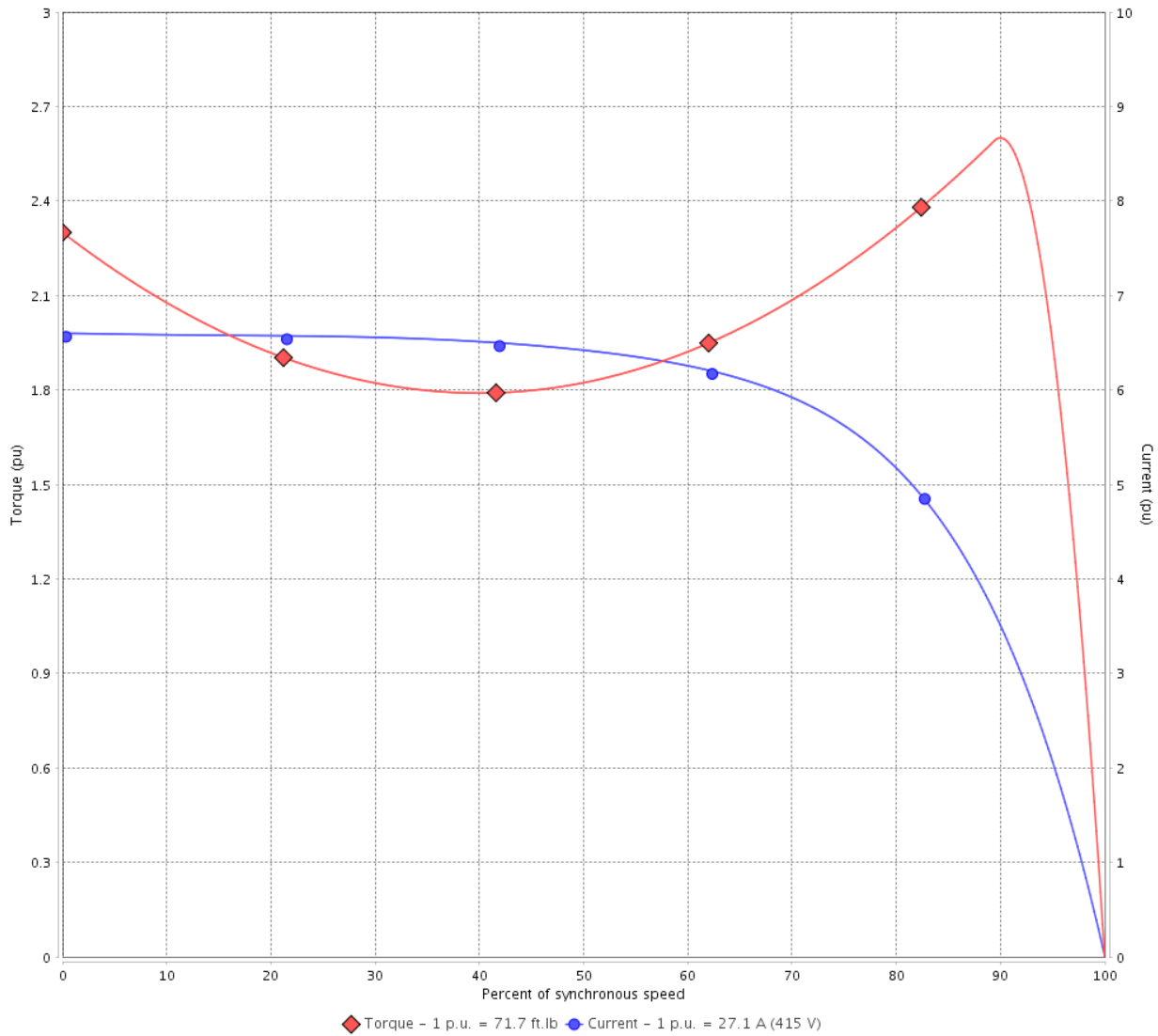
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TORQUE AND CURRENT VS SPEED CURVE



Performance : 415 V 50 Hz 4P IE2

| | | | |
|---------------------|--------------|-----------------------|-----------------|
| Rated current | : 27.1 A | Moment of inertia (J) | : 3.10 sq.ft.lb |
| LRC | : 6.6 | Duty cycle | : Cont.(S1) |
| Rated torque | : 71.7 ft.lb | Insulation class | : F |
| Locked rotor torque | : 229 % | Service factor | : 1.00 |
| Breakdown torque | : 260 % | Temperature rise | : 105 K |
| Rated speed | : 1465 rpm | Design | : B |

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

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

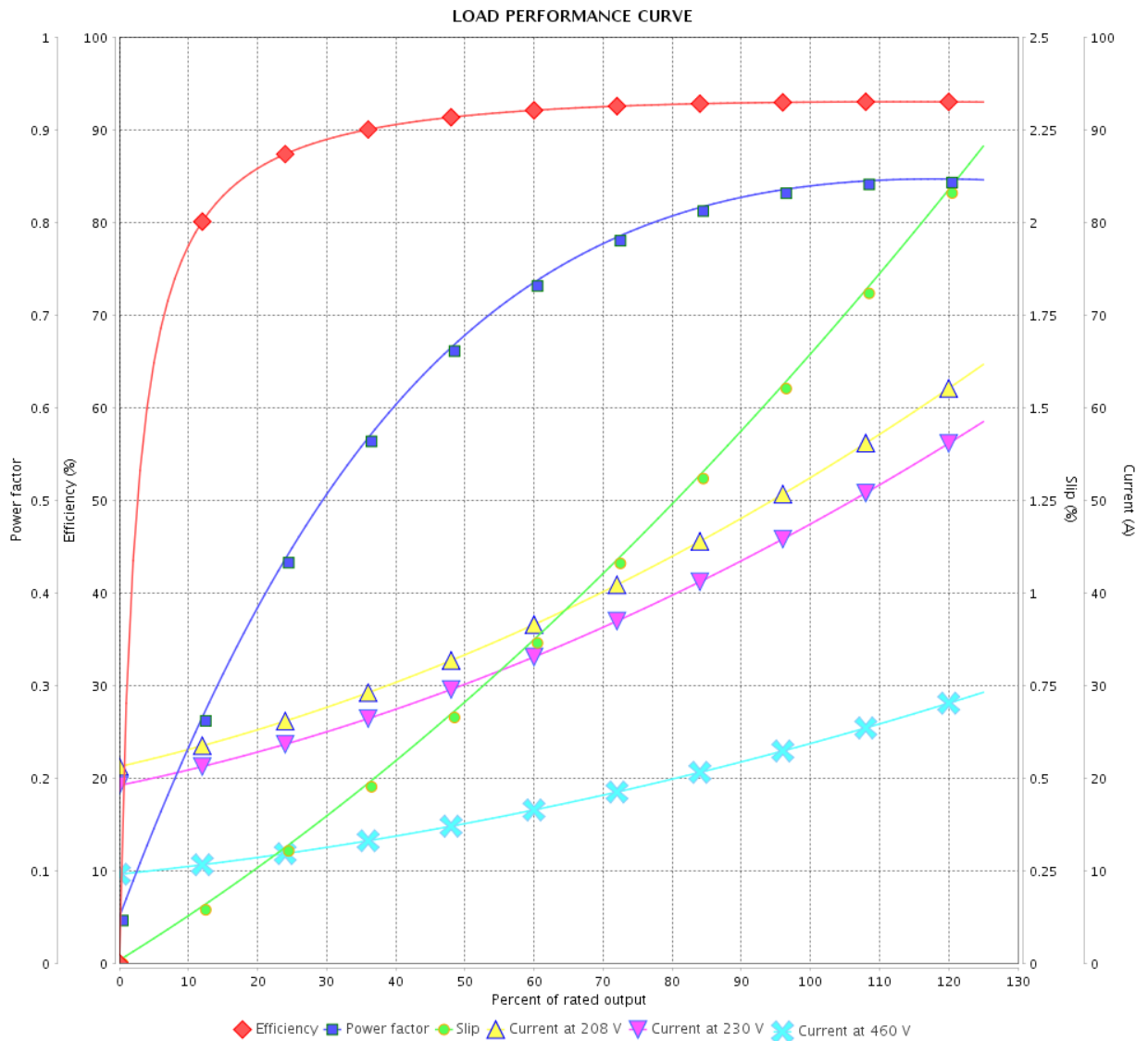


Customer :

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Performance : 230/460 V 60 Hz 4P

Rated current : 48.2/24.1 A
 LRC : 6.9
 Rated torque : 59.3 ft.lb
 Locked rotor torque : 240 %
 Breakdown torque : 260 %
 Rated speed : 1770 rpm

Moment of inertia (J) : 3.10 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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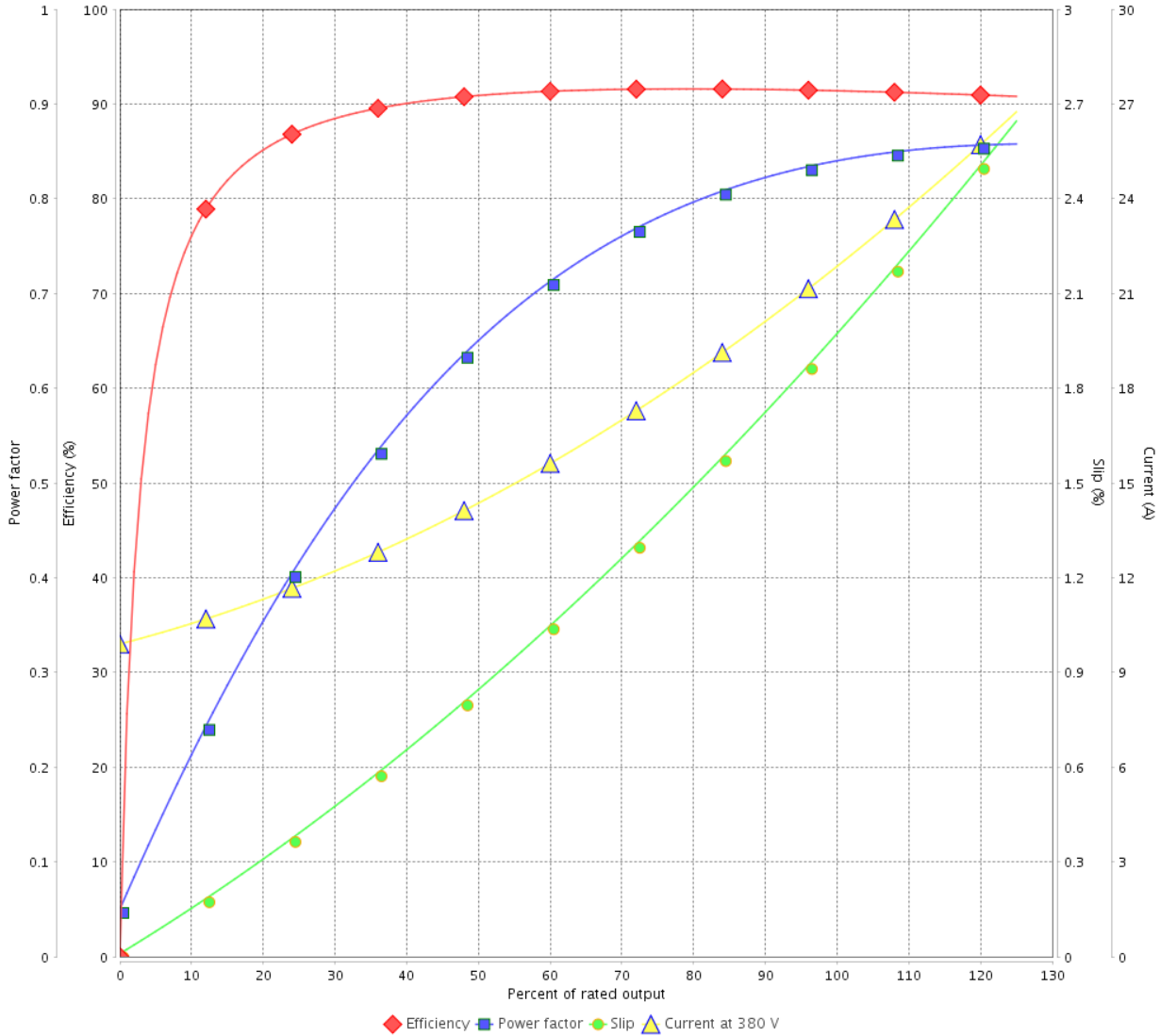
Customer :

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LOAD PERFORMANCE CURVE



Performance : 380 V 50 Hz 4P IE3

Rated current : 21.8 A
 LRC : 7.4
 Rated torque : 53.6 ft.lb
 Locked rotor torque : 250 %
 Breakdown torque : 290 %
 Rated speed : 1470 rpm

Moment of inertia (J) : 3.10 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

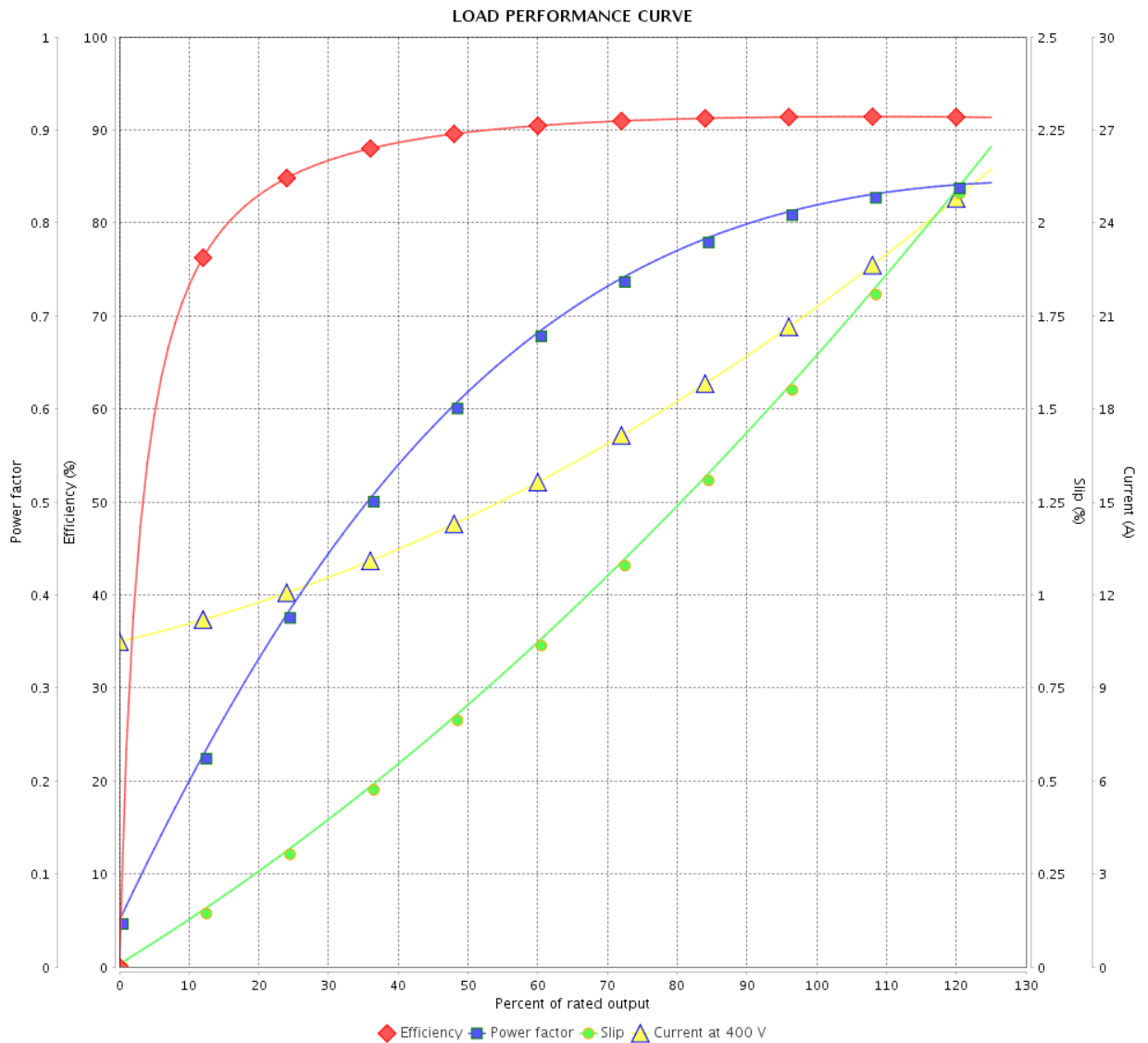


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Performance : 400 V 50 Hz 4P IE3

Rated current : 21.2 A
 LRC : 7.9
 Rated torque : 53.4 ft.lb
 Locked rotor torque : 280 %
 Breakdown torque : 320 %
 Rated speed : 1475 rpm

Moment of inertia (J) : 3.10 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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Three Phase Induction Motor - Squirrel Cage

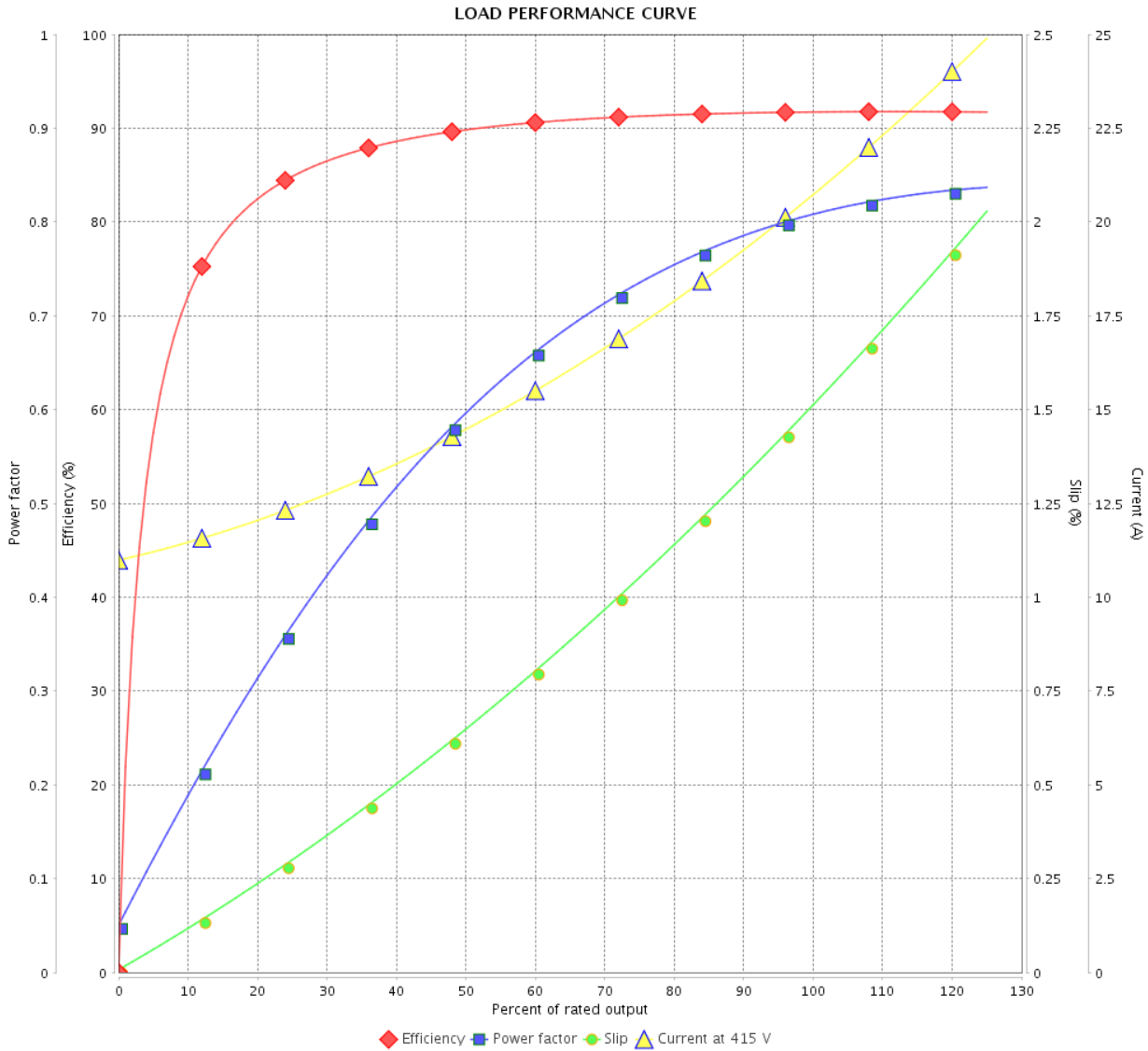


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Performance : 415 V 50 Hz 4P IE3

Rated current : 20.6 A
 LRC : 8.4
 Rated torque : 53.3 ft.lb
 Locked rotor torque : 300 %
 Breakdown torque : 340 %
 Rated speed : 1477 rpm

Moment of inertia (J) : 3.10 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

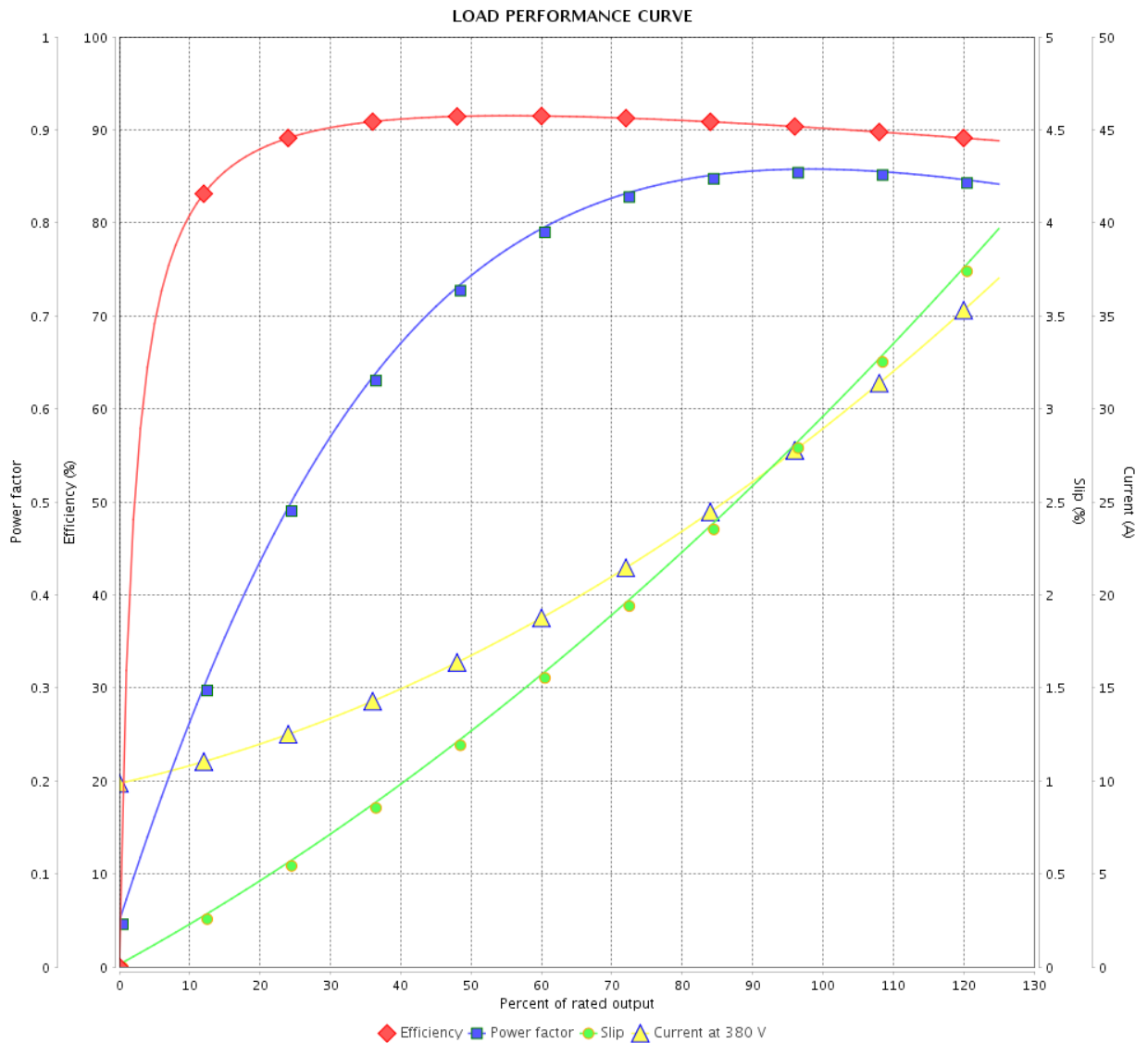


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Performance : 380 V 50 Hz 4P IE1

Rated current : 29.4 A
 LRC : 5.7
 Rated torque : 72.2 ft.lb
 Locked rotor torque : 190 %
 Breakdown torque : 210 %
 Rated speed : 1455 rpm

Moment of inertia (J) : 3.10 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : B

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Three Phase Induction Motor - Squirrel Cage



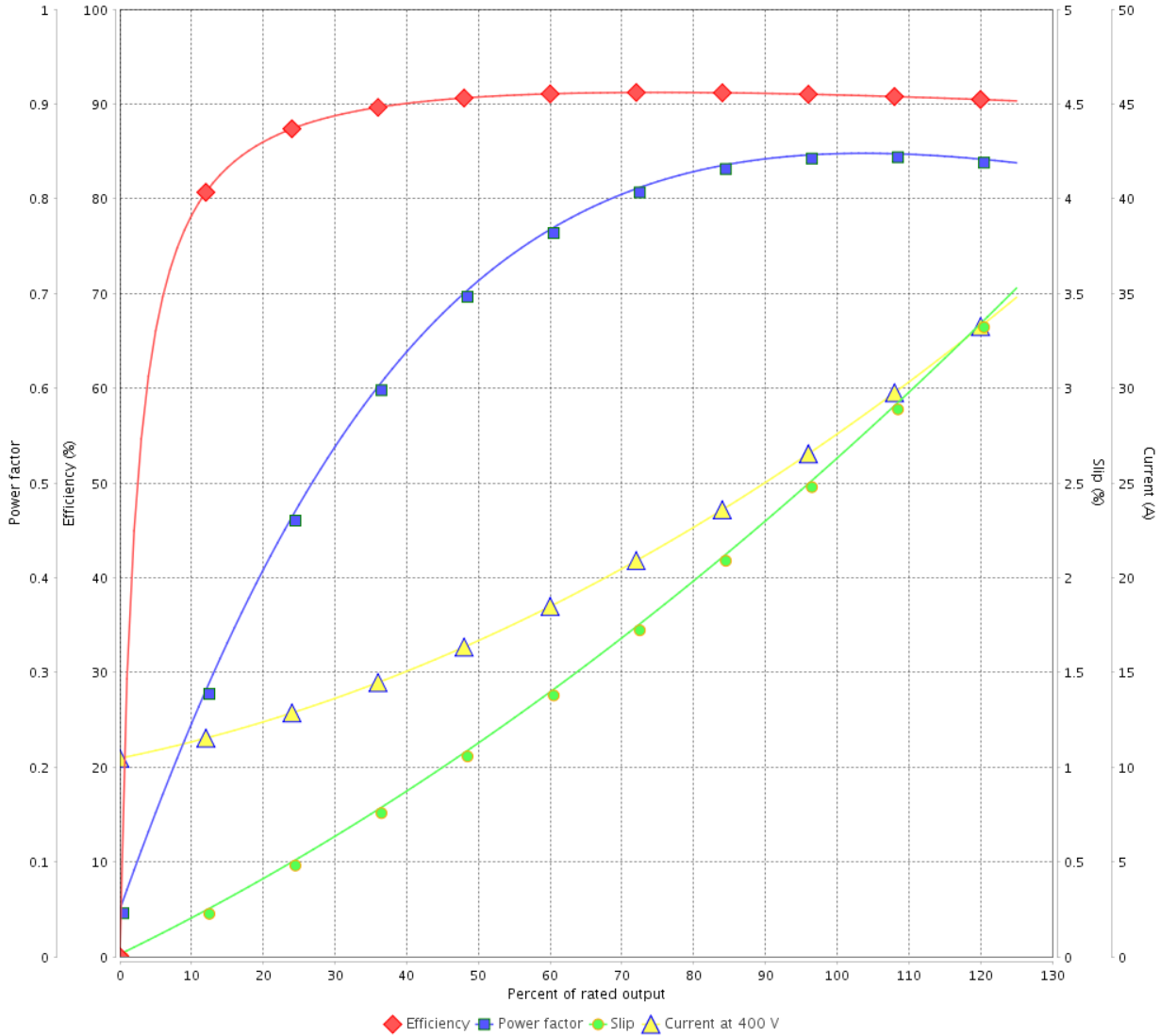
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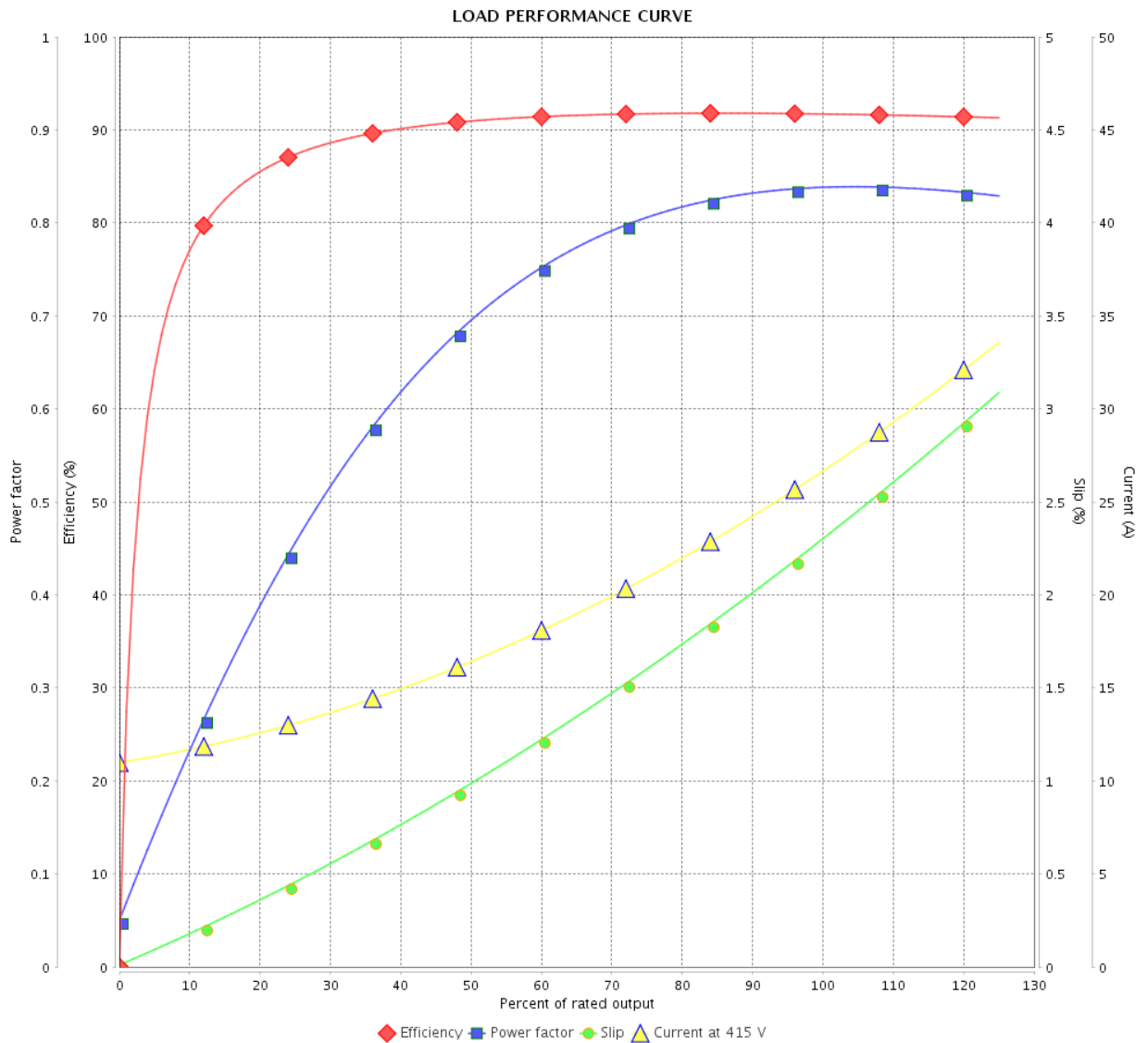


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Rated current : 27.1 A
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 Breakdown torque : 260 %
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



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| Breakdown torque | : 260 % | Temperature rise | : 80 K |
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Heating constant

Cooling constant

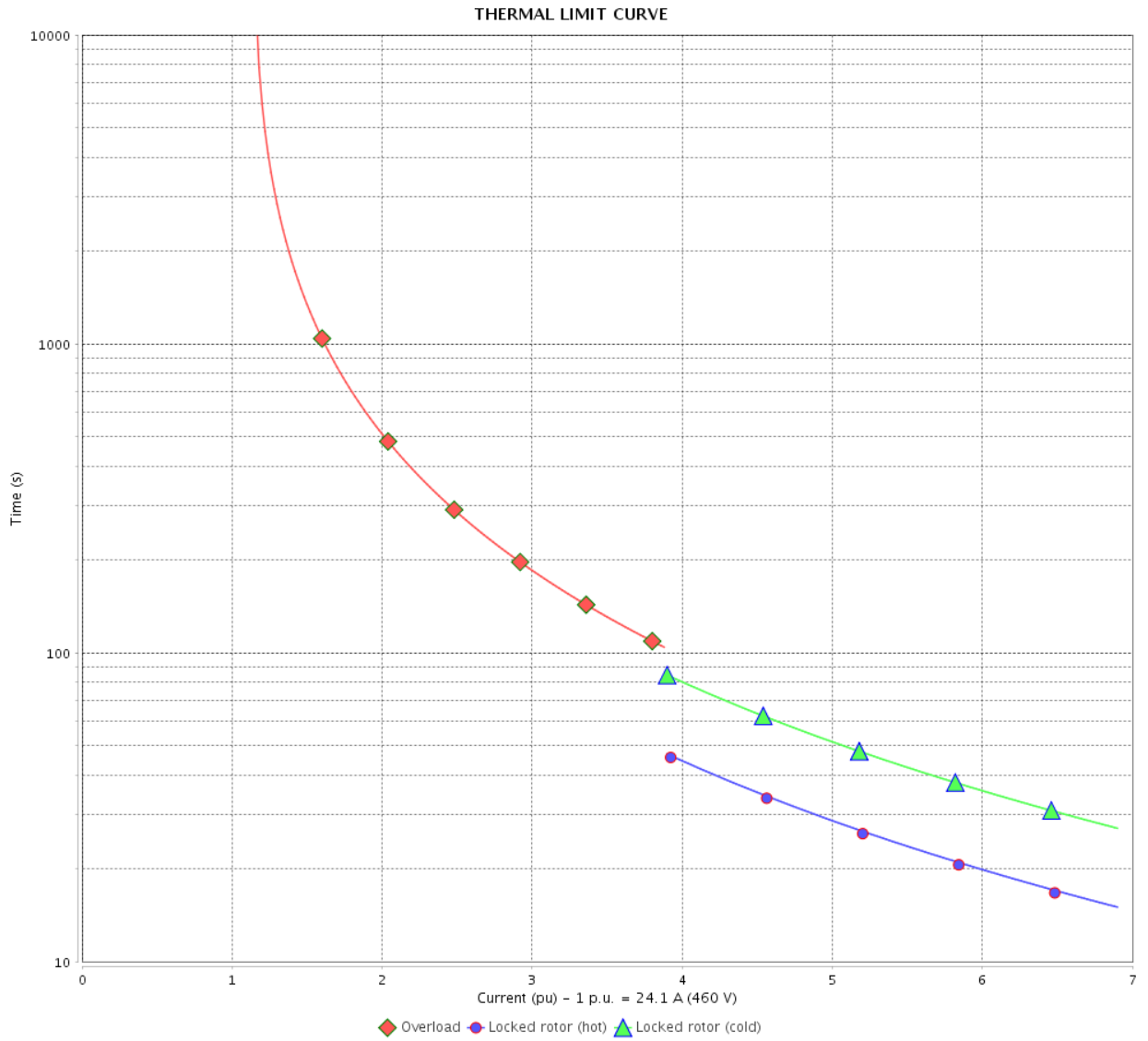
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Three Phase Induction Motor - Squirrel Cage

Customer :

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Performance : 380 V 50 Hz 4P IE3

| | | | |
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| Rated current | : 21.8 A | Moment of inertia (J) | : 3.10 sq.ft.lb |
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| Locked rotor torque | : 250 % | Service factor | : 1.00 |
| Breakdown torque | : 290 % | Temperature rise | : 80 K |
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Heating constant

Cooling constant

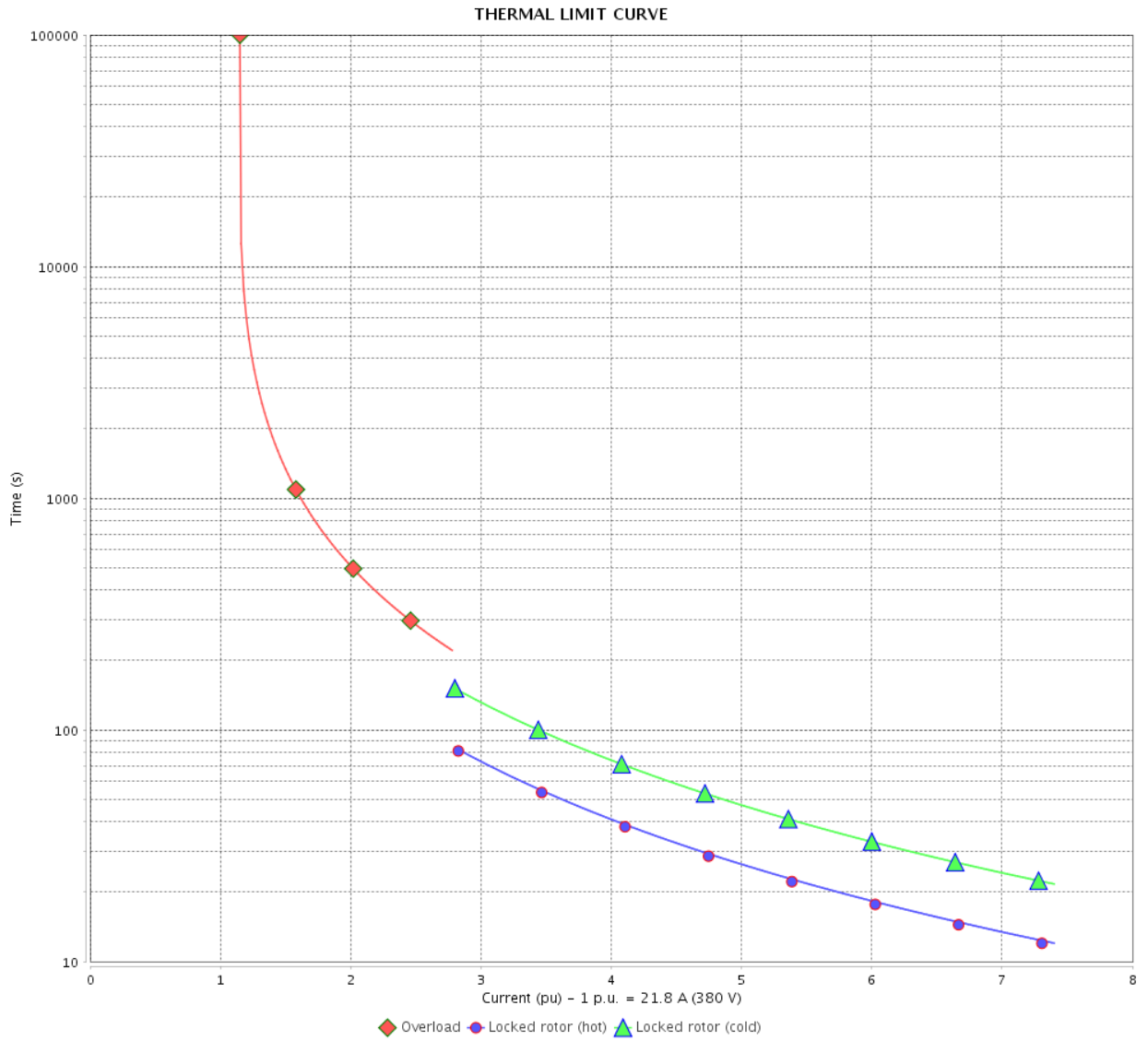
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| Rated torque : 53.4 ft.lb | Insulation class : F |
| Locked rotor torque : 280 % | Service factor : 1.00 |
| Breakdown torque : 320 % | Temperature rise : 80 K |
| Rated speed : 1475 rpm | Design : B |

Heating constant

Cooling constant

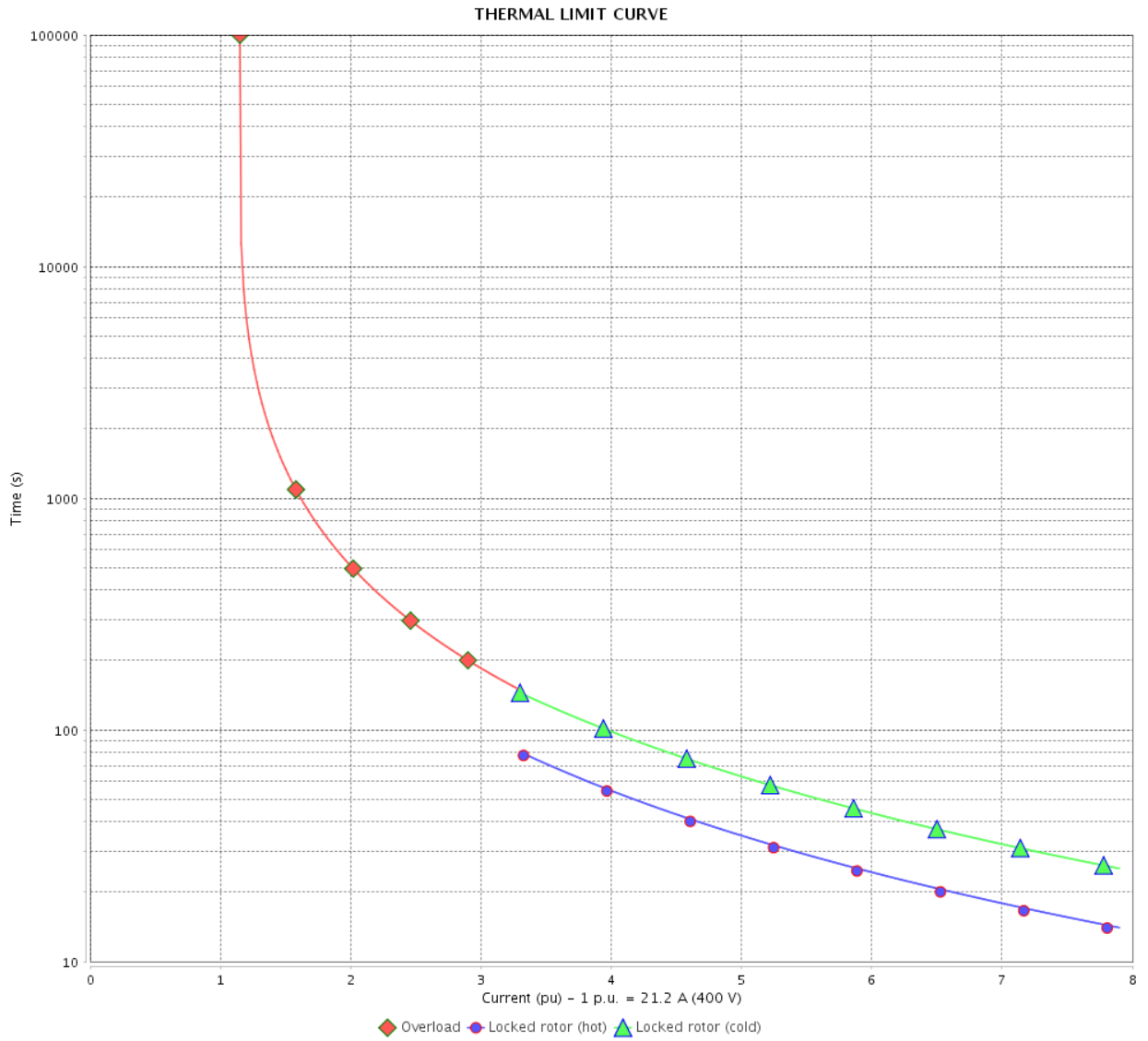
| Rev. | Changes Summary | Performed | Checked | Date |
|--------------|-----------------|-----------|-----------------|----------|
| | | | | |
| Performed by | | | Page 20 / 36 | Revision |
| Checked by | | | | |
| Date | 14/04/2022 | | | |

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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|--------------|-----------------|-----------------|---------|----------|
| | | | | |
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| Checked by | | | | |
| Date | | | | |

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase
Product code : 11901219
Catalog # : 02018ET3E256JP-W22

Performance : 415 V 50 Hz 4P IE3

| | | | |
|---------------------|--------------|-----------------------|-----------------|
| Rated current | : 20.6 A | Moment of inertia (J) | : 3.10 sq.ft.lb |
| LRC | : 8.4 | Duty cycle | : Cont.(S1) |
| Rated torque | : 53.3 ft.lb | Insulation class | : F |
| Locked rotor torque | : 300 % | Service factor | : 1.00 |
| Breakdown torque | : 340 % | Temperature rise | : 80 K |
| Rated speed | : 1477 rpm | Design | : B |

Heating constant

Cooling constant

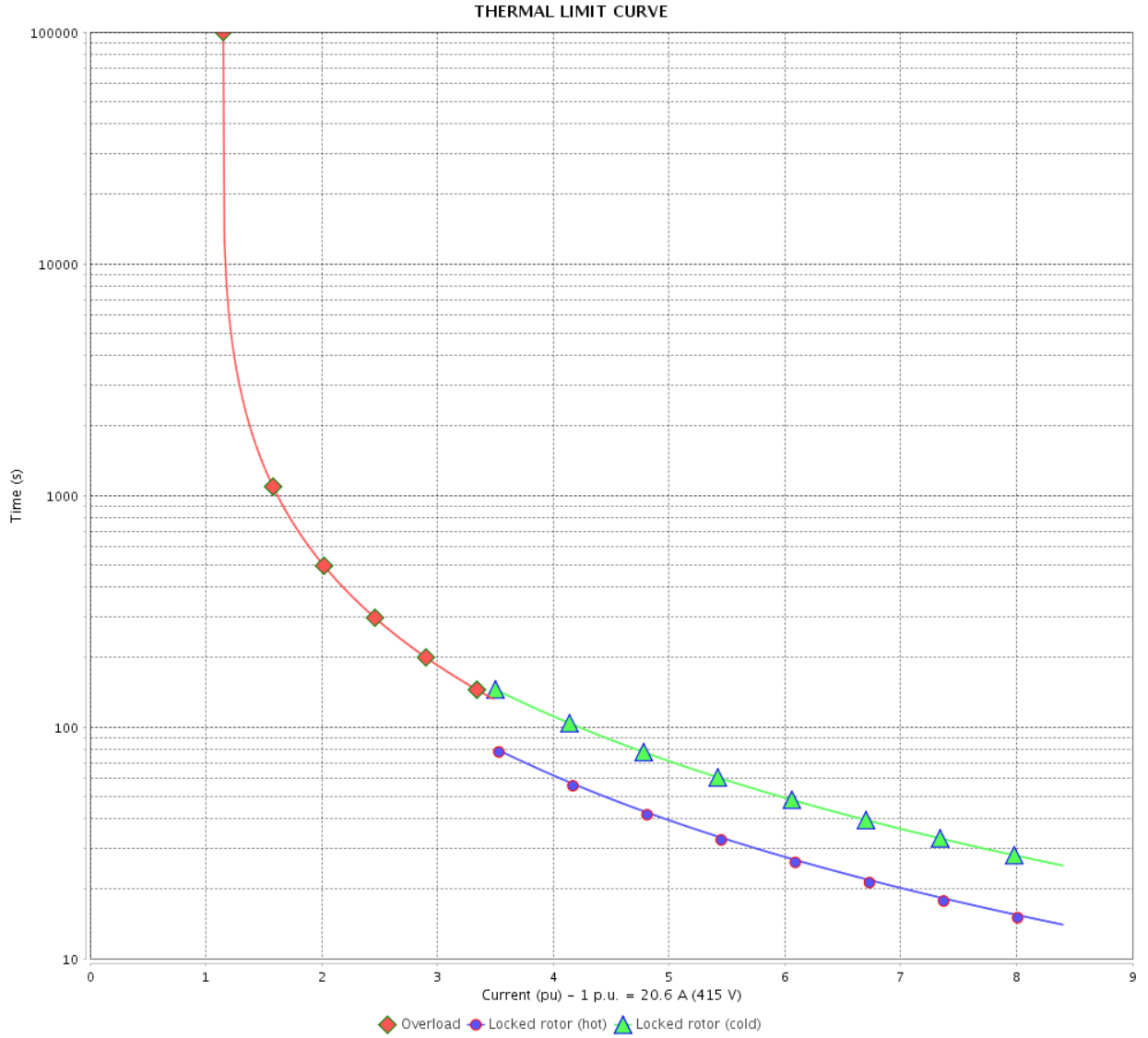
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|--------------|-----------------|-----------|---------|----------|
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| Performed by | | | | |
| Checked by | | | Page | Revision |
| Date | 14/04/2022 | | 22 / 36 | |

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



| Rev. | Changes Summary | Performed | Checked | Date |
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| Checked by | | 23 / 36 | | |
| Date | | 14/04/2022 | | |

THERMAL LIMIT CURVE



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase
Product code : 11901219
Catalog # : 02018ET3E256JP-W22

Performance : 380 V 50 Hz 4P IE1

| | | | |
|---------------------|--------------|-----------------------|-----------------|
| Rated current | : 29.4 A | Moment of inertia (J) | : 3.10 sq.ft.lb |
| LRC | : 5.7 | Duty cycle | : Cont.(S1) |
| Rated torque | : 72.2 ft.lb | Insulation class | : F |
| Locked rotor torque | : 190 % | Service factor | : 1.00 |
| Breakdown torque | : 210 % | Temperature rise | : 105 K |
| Rated speed | : 1455 rpm | Design | : B |

Heating constant

Cooling constant

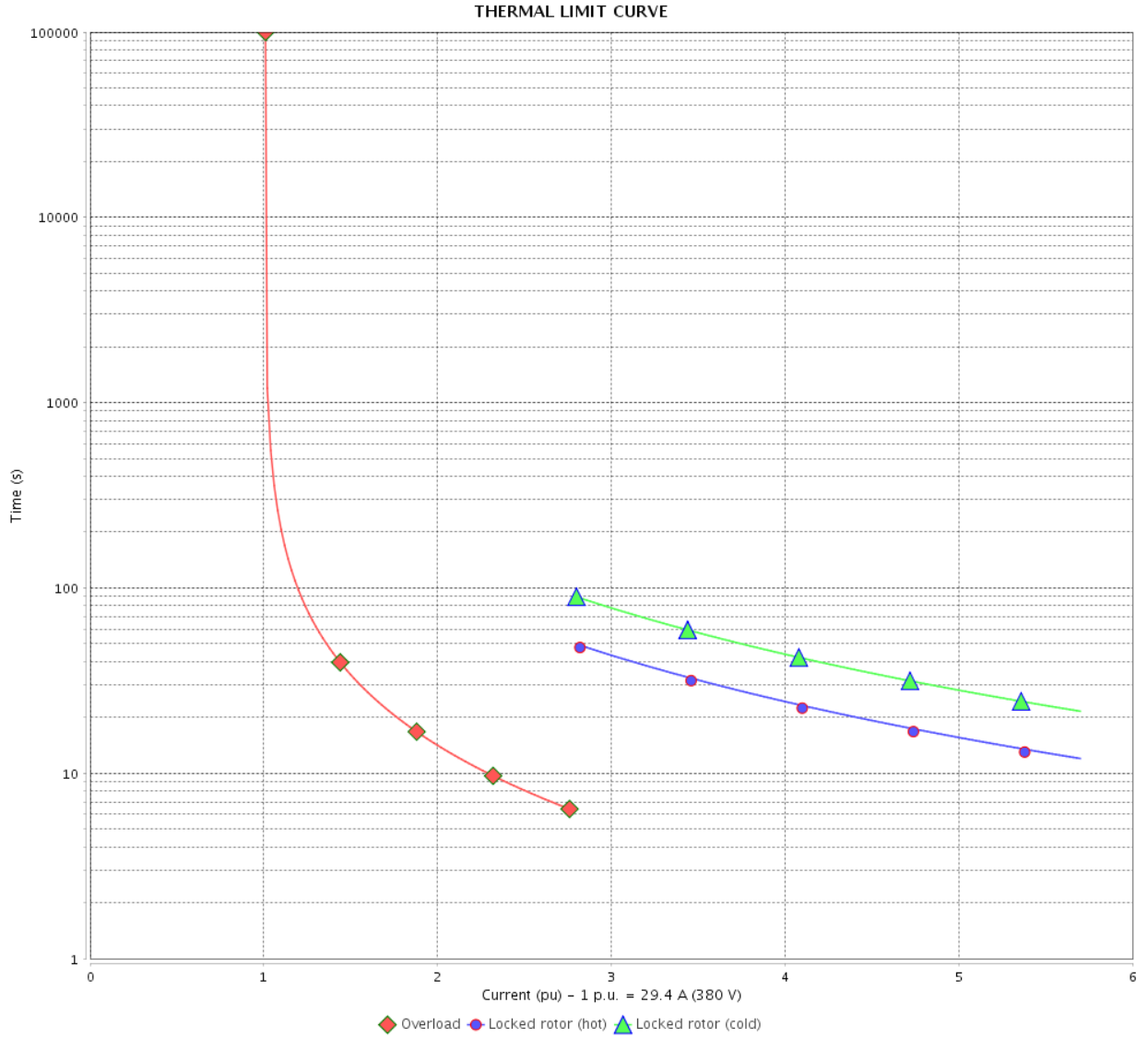
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| Performed by | | | | |
| Checked by | | | Page | Revision |
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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| Checked by | | | | |
| Date | | | | |
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase
Product code : 11901219
Catalog # : 02018ET3E256JP-W22

Performance : 400 V 50 Hz 4P IE2

| | | | |
|---------------------|--------------|-----------------------|-----------------|
| Rated current | : 28.0 A | Moment of inertia (J) | : 3.10 sq.ft.lb |
| LRC | : 6.2 | Duty cycle | : Cont.(S1) |
| Rated torque | : 71.9 ft.lb | Insulation class | : F |
| Locked rotor torque | : 210 % | Service factor | : 1.00 |
| Breakdown torque | : 229 % | Temperature rise | : 105 K |
| Rated speed | : 1460 rpm | Design | : B |

Heating constant

Cooling constant

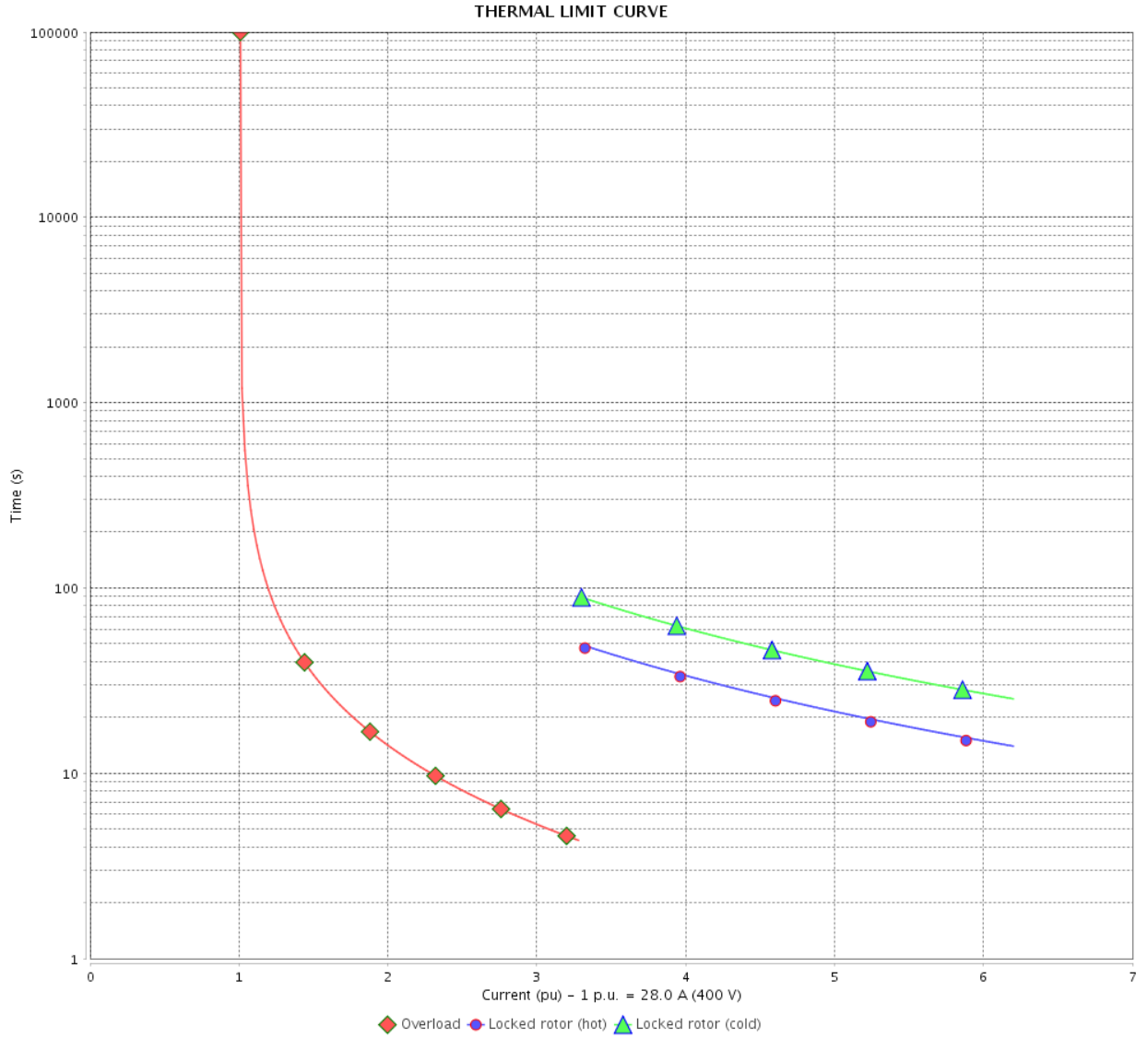
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| Performed by | | | | |
| Checked by | | | Page | Revision |
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



| Rev. | Changes Summary | Performed | Checked | Date |
|--------------|-----------------|------------|---------|----------|
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| Performed by | | Page | | Revision |
| Checked by | | 27 / 36 | | |
| Date | | 14/04/2022 | | |

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase
Product code : 11901219
Catalog # : 02018ET3E256JP-W22

Performance : 415 V 50 Hz 4P IE2

| | | | |
|---------------------|--------------|-----------------------|-----------------|
| Rated current | : 27.1 A | Moment of inertia (J) | : 3.10 sq.ft.lb |
| LRC | : 6.6 | Duty cycle | : Cont.(S1) |
| Rated torque | : 71.7 ft.lb | Insulation class | : F |
| Locked rotor torque | : 229 % | Service factor | : 1.00 |
| Breakdown torque | : 260 % | Temperature rise | : 105 K |
| Rated speed | : 1465 rpm | Design | : B |

Heating constant

Cooling constant

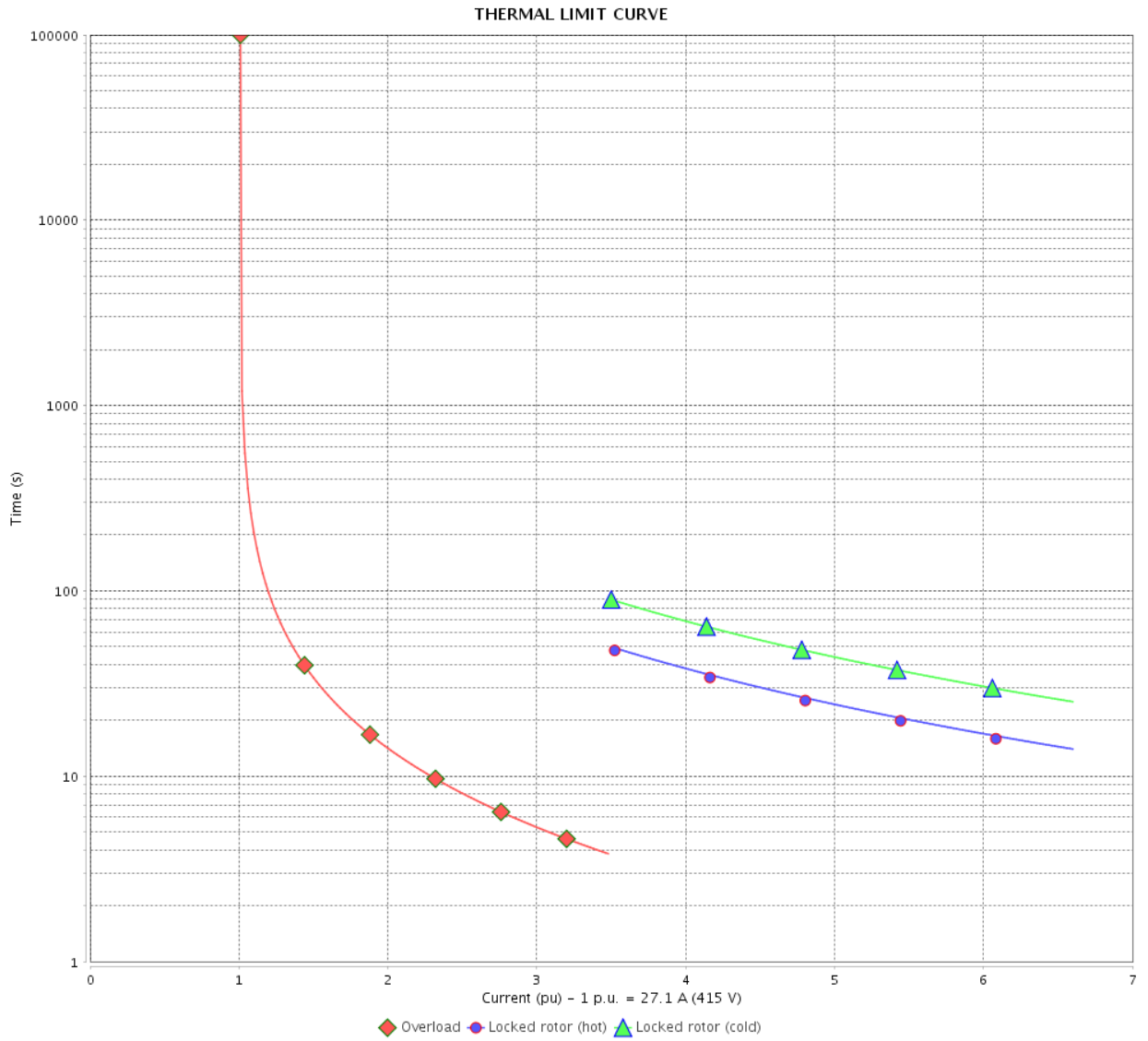
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| Performed by | | | | |
| Checked by | | | Page | Revision |
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



| Rev. | Changes Summary | Performed | Checked | Date |
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| Checked by | | | | |
| Date | | | | |

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

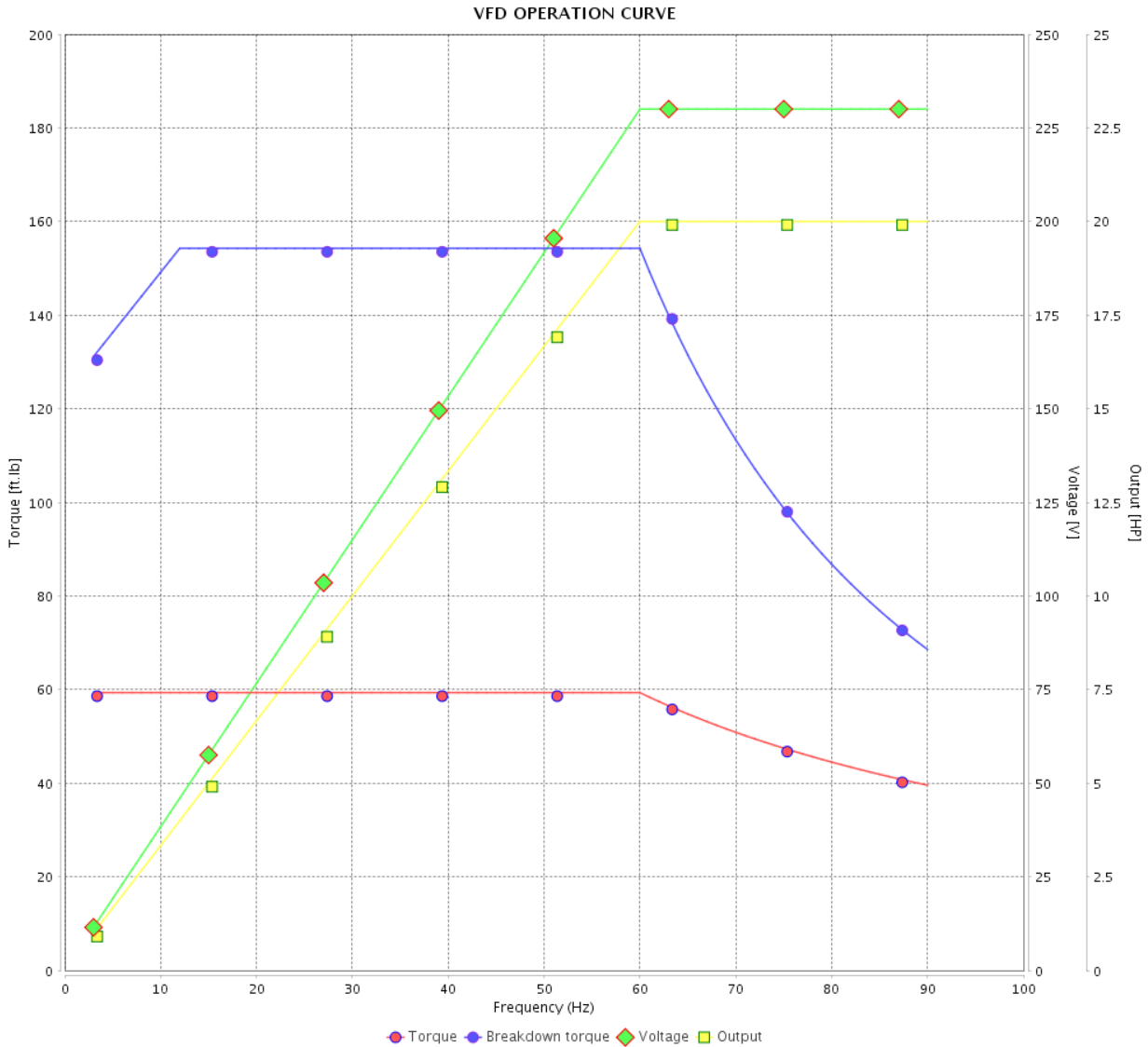


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11901219

Catalog # : 02018ET3E256JP-W22



Performance : 230/460 V 60 Hz 4P

Rated current : 48.2/24.1 A
 LRC : 6.9
 Rated torque : 59.3 ft.lb
 Locked rotor torque : 240 %
 Breakdown torque : 260 %
 Rated speed : 1770 rpm

Moment of inertia (J) : 3.10 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 30 / 36 | Revision |
| Checked by | | | | |
| Date | 14/04/2022 | | | |

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

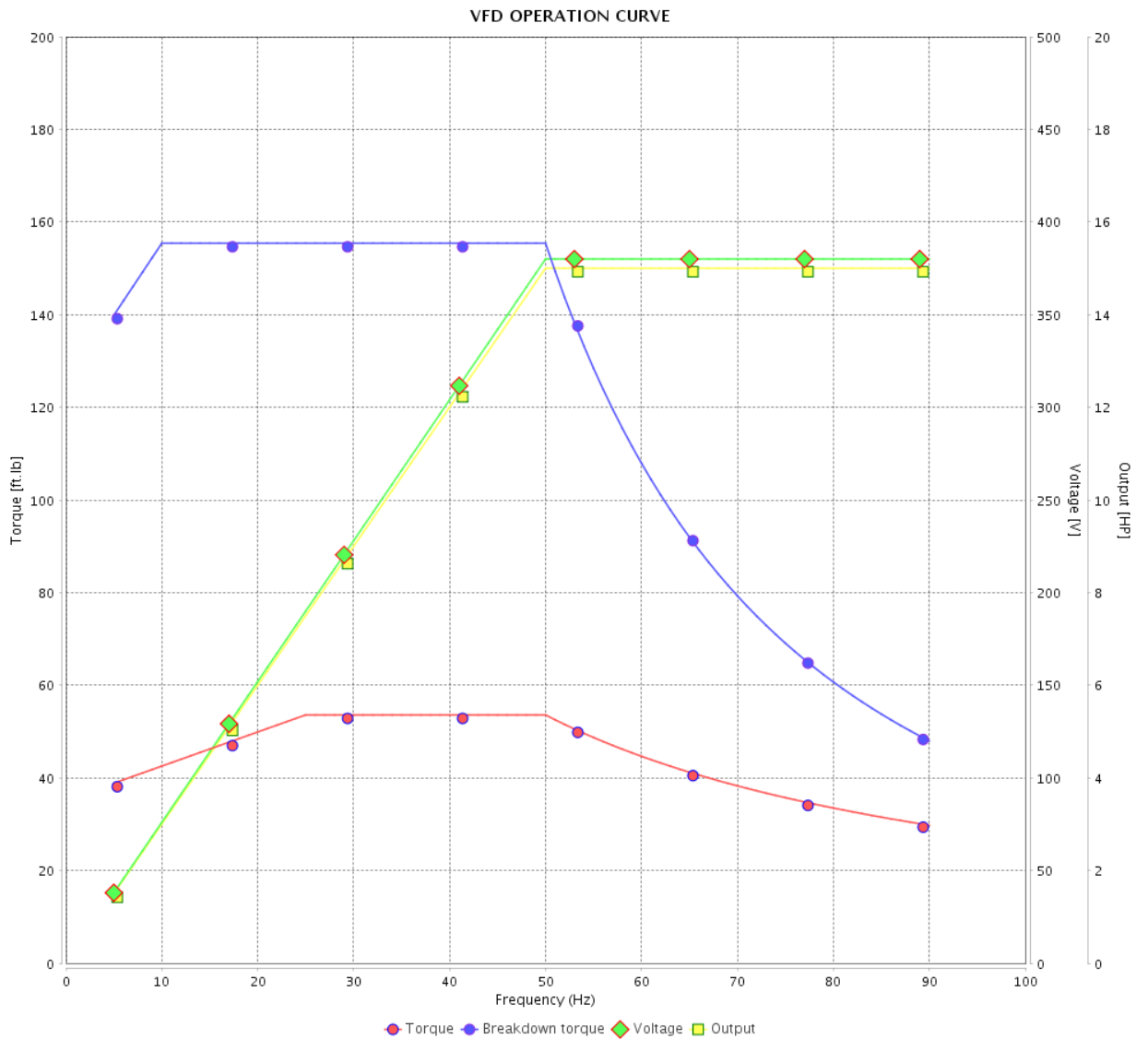


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11901219

Catalog # : 02018ET3E256JP-W22



Performance : 380 V 50 Hz 4P IE3

Rated current : 21.8 A
 LRC : 7.4
 Rated torque : 53.6 ft.lb
 Locked rotor torque : 250 %
 Breakdown torque : 290 %
 Rated speed : 1470 rpm

Moment of inertia (J) : 3.10 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 | 14/04/2022 | | | |

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



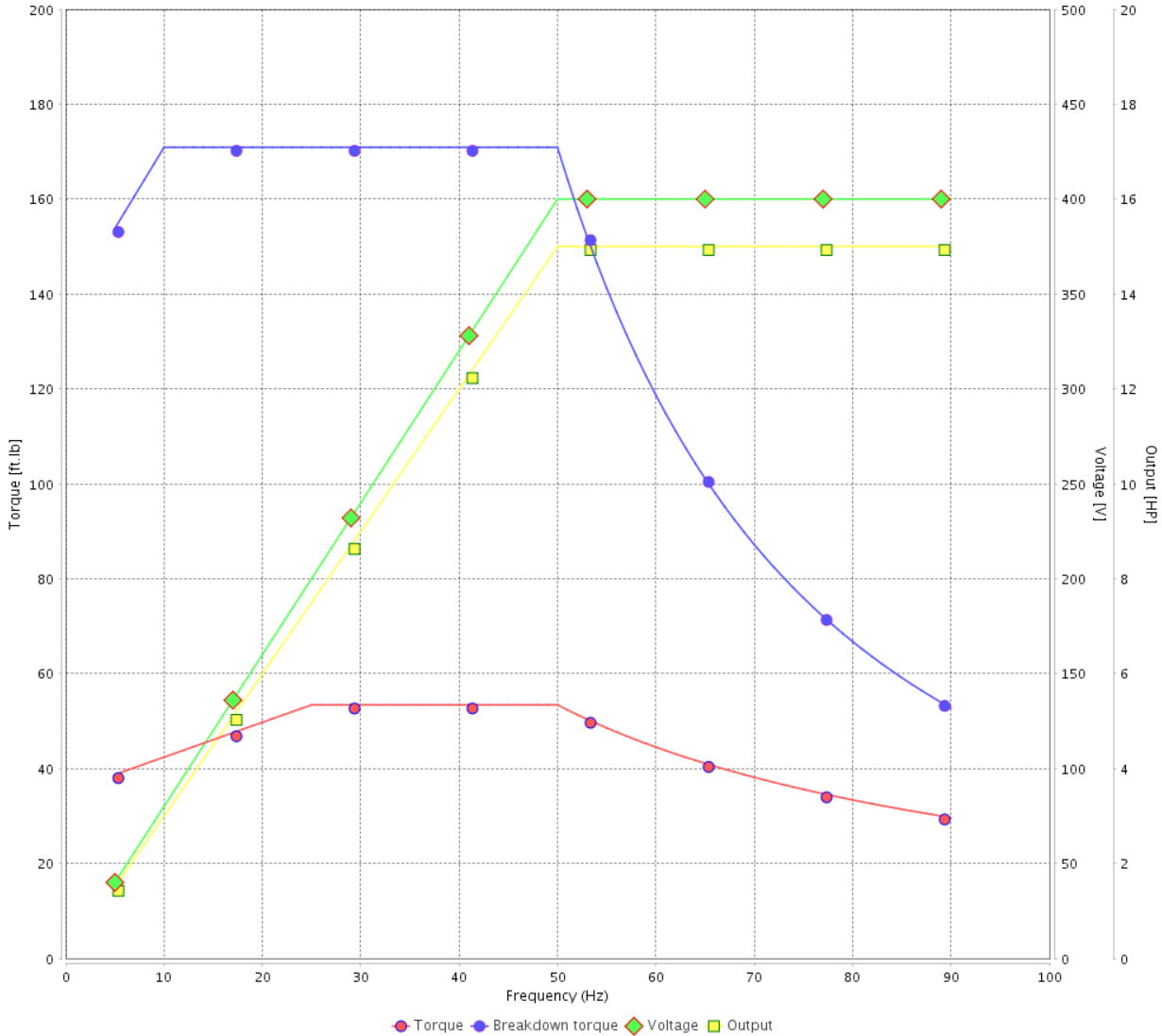
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11901219

Catalog # : 02018ET3E256JP-W22

VFD OPERATION CURVE



Performance : 400 V 50 Hz 4P IE3

| | | | |
|---------------------|--------------|-----------------------|-----------------|
| Rated current | : 21.2 A | Moment of inertia (J) | : 3.10 sq.ft.lb |
| LRC | : 7.9 | Duty cycle | : Cont.(S1) |
| Rated torque | : 53.4 ft.lb | Insulation class | : F |
| Locked rotor torque | : 280 % | Service factor | : 1.00 |
| Breakdown torque | : 320 % | Temperature rise | : 80 K |
| Rated speed | : 1475 rpm | Design | : B |

| Rev. | Changes Summary | Performed | Checked | Date |
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| Checked by | | | | |
| Date | 14/04/2022 | | | |

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

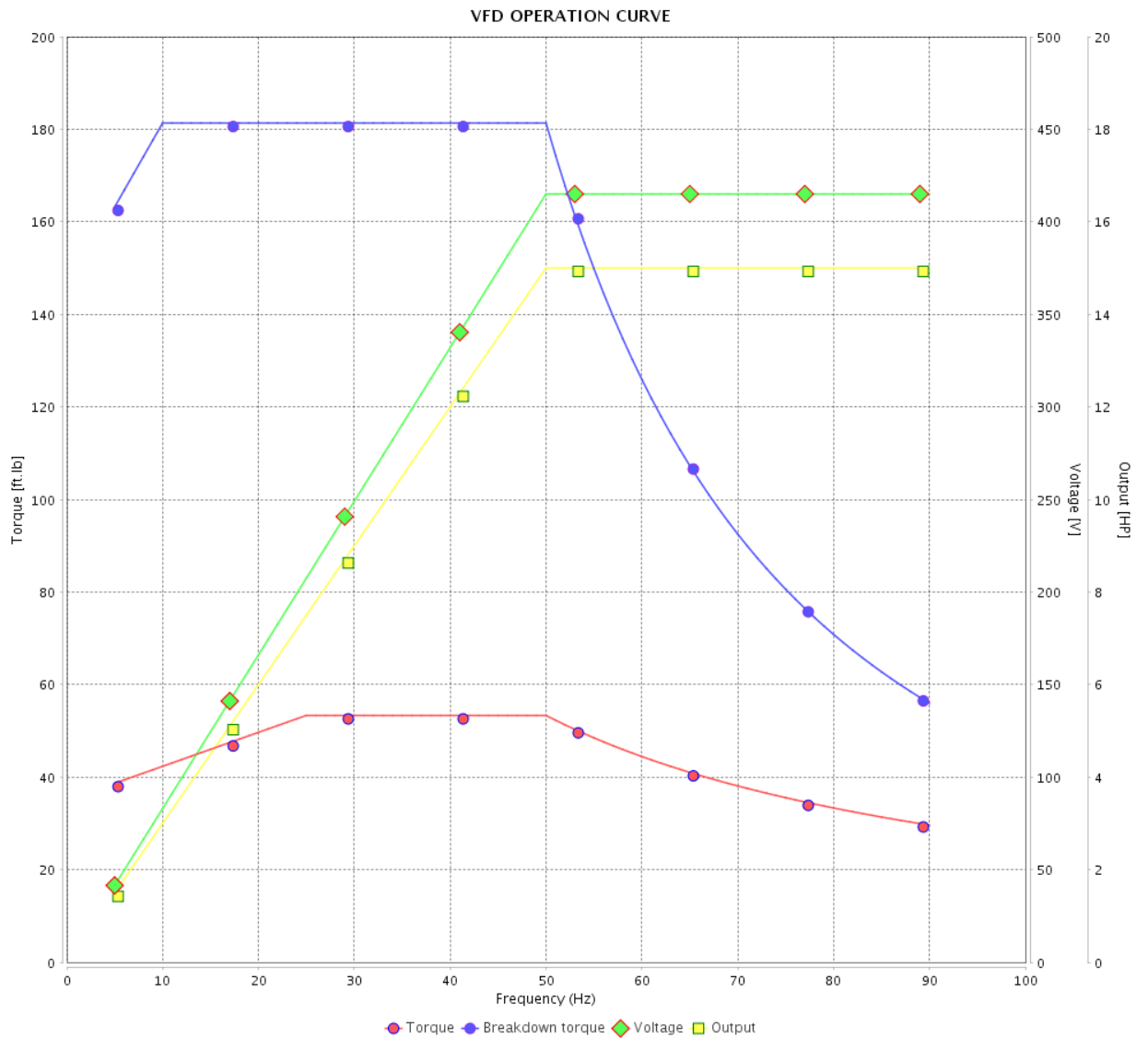


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11901219

Catalog # : 02018ET3E256JP-W22



Performance : 415 V 50 Hz 4P IE3

Rated current : 20.6 A
 LRC : 8.4
 Rated torque : 53.3 ft.lb
 Locked rotor torque : 300 %
 Breakdown torque : 340 %
 Rated speed : 1477 rpm

Moment of inertia (J) : 3.10 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 | | 33 / 36 | | |
| Date | 14/04/2022 | | | |

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



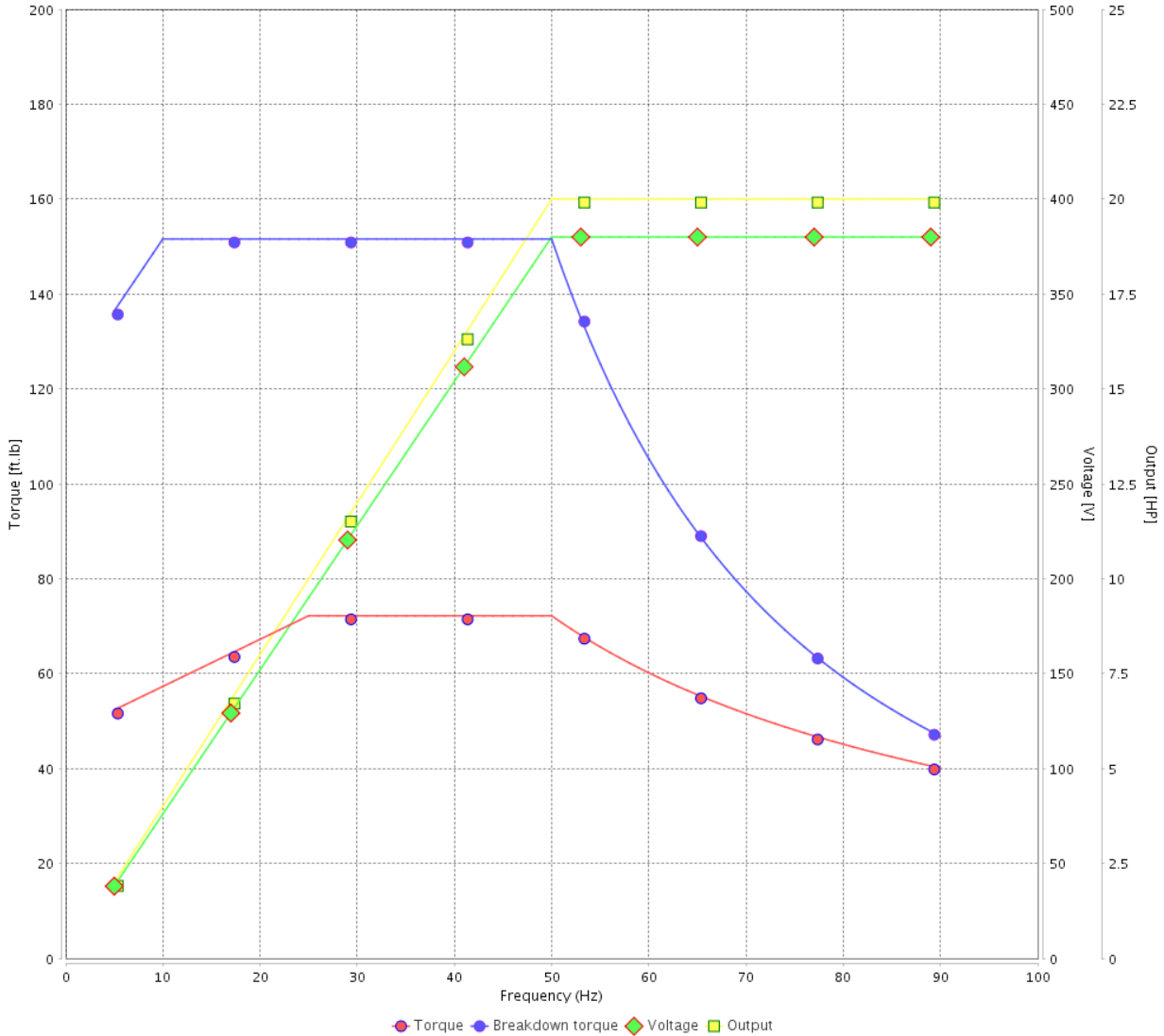
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11901219

Catalog # : 02018ET3E256JP-W22

VFD OPERATION CURVE



Performance : 380 V 50 Hz 4P IE1

Rated current : 29.4 A
 LRC : 5.7
 Rated torque : 72.2 ft.lb
 Locked rotor torque : 190 %
 Breakdown torque : 210 %
 Rated speed : 1455 rpm

Moment of inertia (J) : 3.10 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 | | | | |
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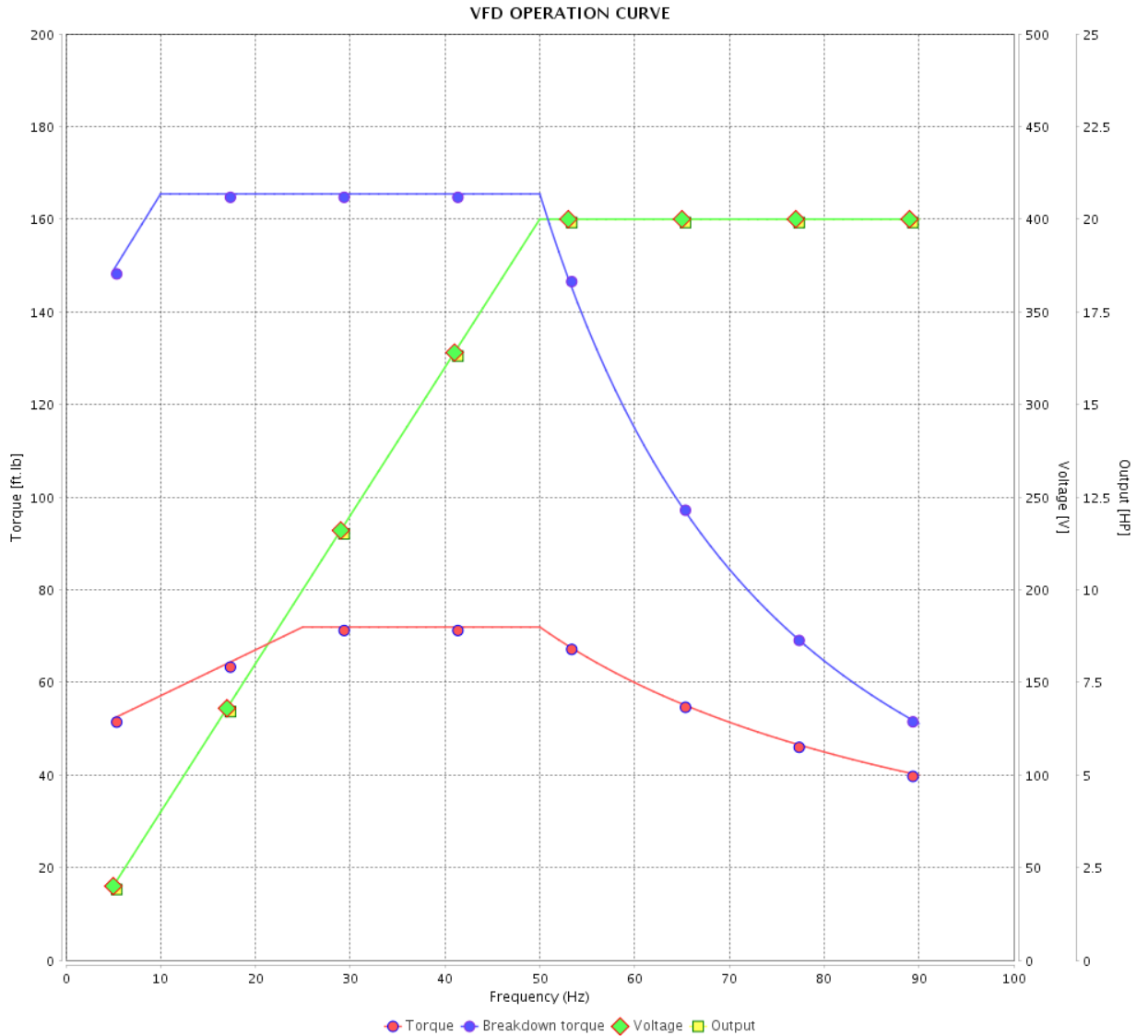
VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : NEMA Premium Efficiency Three-Phase
 Product code : 11901219
 Catalog # : 02018ET3E256JP-W22



Performance : 400 V 50 Hz 4P IE2

| | | | |
|---------------------|--------------|-----------------------|-----------------|
| Rated current | : 28.0 A | Moment of inertia (J) | : 3.10 sq.ft.lb |
| LRC | : 6.2 | Duty cycle | : Cont.(S1) |
| Rated torque | : 71.9 ft.lb | Insulation class | : F |
| Locked rotor torque | : 210 % | Service factor | : 1.00 |
| Breakdown torque | : 229 % | Temperature rise | : 105 K |
| Rated speed | : 1460 rpm | Design | : B |

| Rev. | Changes Summary | Performed | Checked | Date |
|--------------|-----------------|-----------|---------|----------|
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| Performed by | | Page | | Revision |
| Checked by | | 35 / 36 | | |
| Date | 14/04/2022 | | | |

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

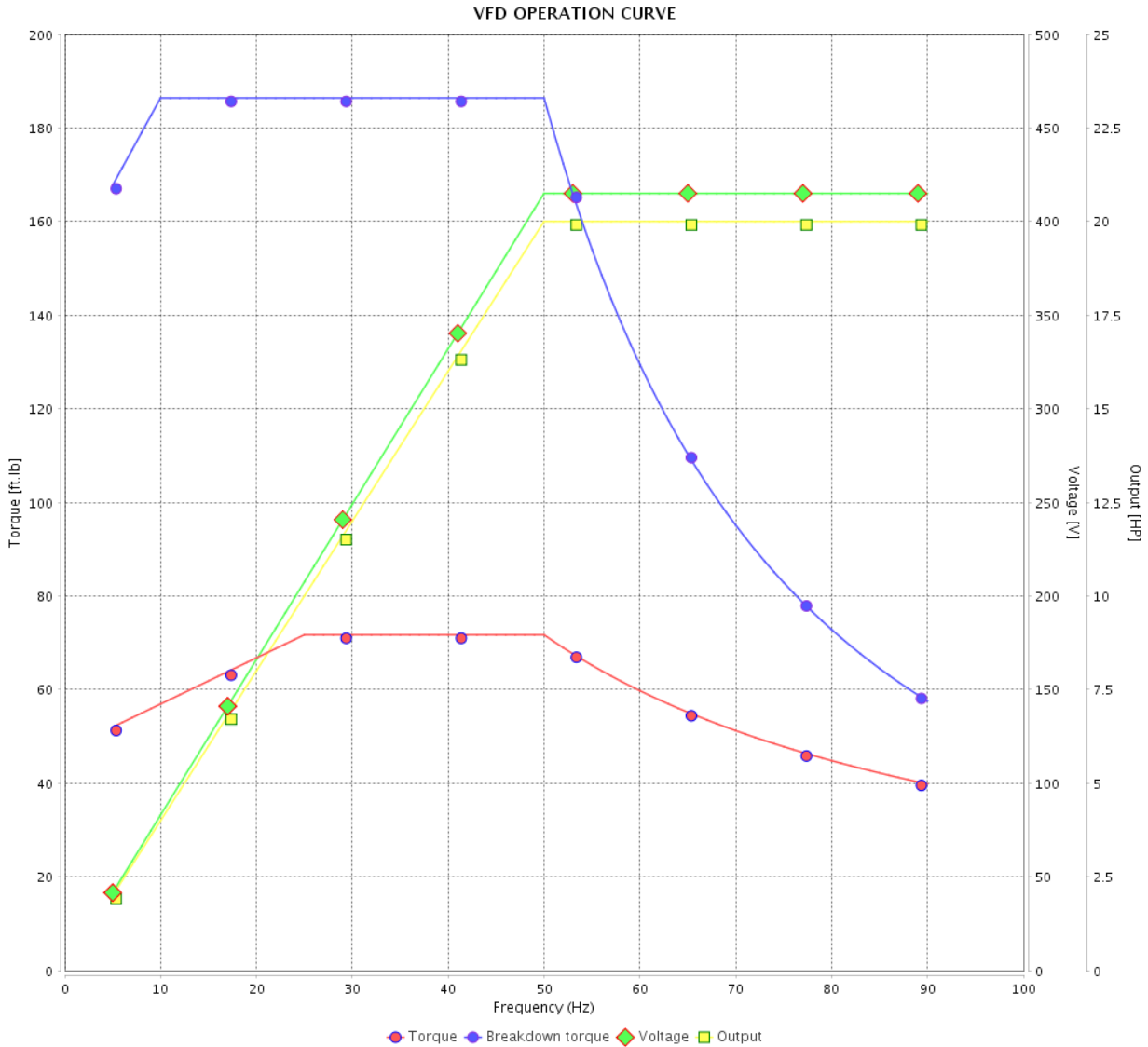


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11901219

Catalog # : 02018ET3E256JP-W22



Performance : 415 V 50 Hz 4P IE2

Rated current : 27.1 A
 LRC : 6.6
 Rated torque : 71.7 ft.lb
 Locked rotor torque : 229 %
 Breakdown torque : 260 %
 Rated speed : 1465 rpm

Moment of inertia (J) : 3.10 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : B

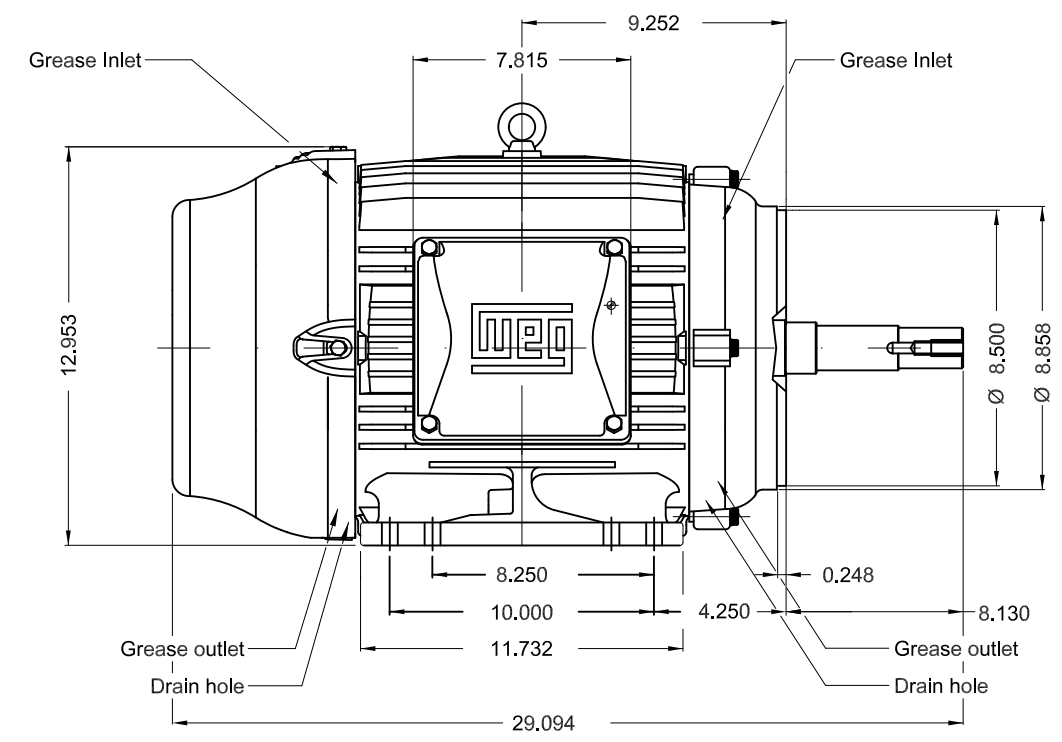
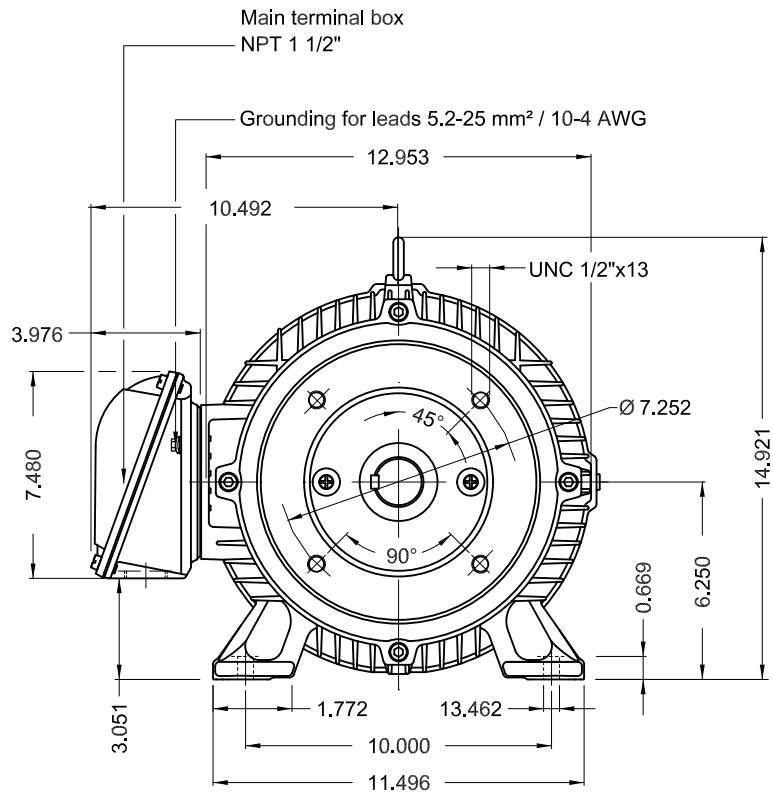
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|--------------|-----------------|-----------|-----------------|----------|
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| Performed by | | | Page 36 / 36 | Revision |
| Checked by | | | | |
| Date | 14/04/2022 | | | |

1 2 3 4 5 6

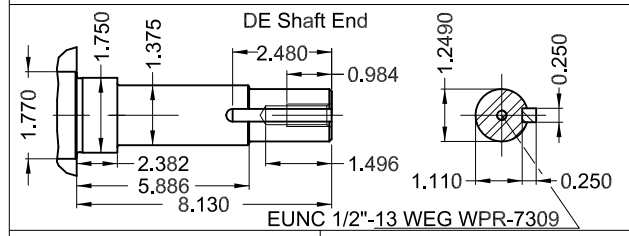
A

B

C



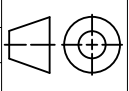
D



E

Without vertical jackscrews
 Color RAL 5009
 Painting plan 203A
 Mounting B34R(D)

20 HP 04 Poles 60 Hz A

| ECM | LOC | SUMMARY OF MODIFICATIONS | EXECUTED | CHECKED | RELEASED | DATE | VER |
|----------|-----------|--|----------------|---------------------|----------|-------|-----|
| EXECUTED | PIRWBUSER |  THREE PH. MOTOR JM/JP/JET PUMP W22 PREM. EFF. FRAME 254/6JP IP55 TEFC | | | | | |
| CHECKED | | | | | | | |
| RELEASED | | | | | | | |
| REL DT. | WMO | | Jaragua do Sul | Product Engineering | SHEET | 1 / 1 | |

PREVIEW
 WDD





Inverter Duty Motor
Severe Duty



FOR SAFE AREA
MOD.TE1BFOXON



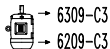
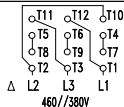
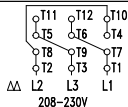
For 60Hz: Class I, Div 2, Gr. A, B, C and D - T3
Class I, Zone 2, IIC - T3

Class II, Div 2, Gr. F and G - T4

For 60Hz use on PWM, Gr. A, B, C, D and F,
VT 1000:1, CT 20:1, 1.0SF, T3A

MODEL 02018ET3E256JP-W22
MADE IN MEXICO
11901219

| | | | |
|--|--------------------|-------------------|---------------|
| PH 3 | FR 254/6JP | HP(kW) 20.0(15.0) | Hz 60 |
| V 230/460 | A 48.2/24.1 | RPM 1770 | DES B |
| NEMA NOM EFF 93.0 % | INS. CL. F ΔT 80 K | IP55 | |
| ENCL TEFC | DUTY CONT. | AMB. 40°C | |
| CODE H | PF 0.84 | SF 1.25 | SFA 60.3/30.1 |
| USABLE @208V | 53.3 A | SF 1.15 | SFA 61.3 |
| 20HP 15kW 50Hz 380V 29.4A 1455RPM SF1.00 EFF 90.2% (IE1) | | | |



MOBIL POLYREX EM
13 g 20000 h

ALT 1000 m.a.s.l. 342 Lbs