

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



| | | | | | |
|--|----------------------|---|--|----------------------------|----------------------|
| Customer | | | | | |
| Product line | | : NEMA Premium Efficiency Three-Phase | | Product code : 12378614 | |
| | | | | Catalog # : 15018XT3G445T | |
| Frame : 444/5T | | 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 : 2199 lb | | | |
| Protection degree : IP55 | | Moment of inertia (J) : 66.7 sq.ft.lb | | | |
| Design : B | | | | | |
| Output [HP] | 150 | 125 | 125 | 125 | 125 |
| Poles | 4 | 4 | 4 | 4 | 4 |
| Frequency [Hz] | 60 | 50 | 50 | 50 | 50 |
| Rated voltage [V] | 460 | 380 | 400 | 415 | 415 |
| Rated current [A] | 170 | 169 | 163 | 158 | 158 |
| L. R. Amperes [A] | 1071 | 1014 | 1076 | 1122 | 1122 |
| LRC [A] | 6.3x(Code G) | 6.0x(Code G) | 6.6x(Code H) | 7.1x(Code H) | 7.1x(Code H) |
| No load current [A] | 52.0 | 52.0 | 55.0 | 58.0 | 58.0 |
| Rated speed [RPM] | 1780 | 1480 | 1483 | 1485 | 1485 |
| Slip [%] | 1.11 | 1.33 | 1.13 | 1.00 | 1.00 |
| Rated torque [ft.lb] | 442 | 443 | 442 | 441 | 441 |
| Locked rotor torque [%] | 210 | 200 | 229 | 250 | 250 |
| Breakdown torque [%] | 220 | 220 | 250 | 270 | 270 |
| Service factor | 1.15 | 1.00 | 1.00 | 1.00 | 1.00 |
| Temperature rise | 80 K | 80 K | 80 K | 80 K | 80 K |
| Locked rotor time | 39s (cold) 22s (hot) | 54s (cold) 30s (hot) | 54s (cold) 30s (hot) | 54s (cold) 30s (hot) | 54s (cold) 30s (hot) |
| Noise level ² | 76.0 dB(A) | 72.0 dB(A) | 72.0 dB(A) | 72.0 dB(A) | 72.0 dB(A) |
| Efficiency (%) | 25% | 94.8 | 94.4 | 94.9 | 94.0 |
| | 50% | 95.0 | 94.5 | 95.0 | 94.5 |
| | 75% | 95.8 | 95.0 | 95.0 | 95.0 |
| | 100% | 95.8 | 95.0 | 95.0 | 95.4 |
| Power Factor | 25% | 0.49 | 0.49 | 0.46 | 0.44 |
| | 50% | 0.72 | 0.72 | 0.69 | 0.67 |
| | 75% | 0.81 | 0.81 | 0.79 | 0.78 |
| | 100% | 0.85 | 0.85 | 0.84 | 0.83 |
| Bearing type | | Drive end : 6219 C3 | Non drive end : 6316 C3 | Foundation loads | |
| Sealing | | : Viton Oil Seal Viton Seal | | Max. traction : 2082 lb | |
| Lubrication interval | | : 8033 h 8569 h | | Max. compression : 4281 lb | |
| Lubricant amount | | : 28 g 34 g | | | |
| Lubricant type | | : Mobil Polyrex EM | | | |
| Notes | | | | | |
| This revision replaces and cancel the previous one, which must be eliminated. (1) Looking the motor from the shaft end. (2) Measured at 1m and with tolerance of +3dB(A). (3) Approximate weight subject to changes after manufacturing process. (4) At 100% of full load. | | | These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1. | | |
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DATA SHEET

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Customer : _____

Thermal protection

| ID | Application | Type | Quantity | Sensing Temperature |
|----|-------------|----------------------|-----------|---------------------|
| 1 | Winding | Thermostat - 2 wires | 1 x Phase | 155 °C |

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TORQUE AND CURRENT VS SPEED CURVE



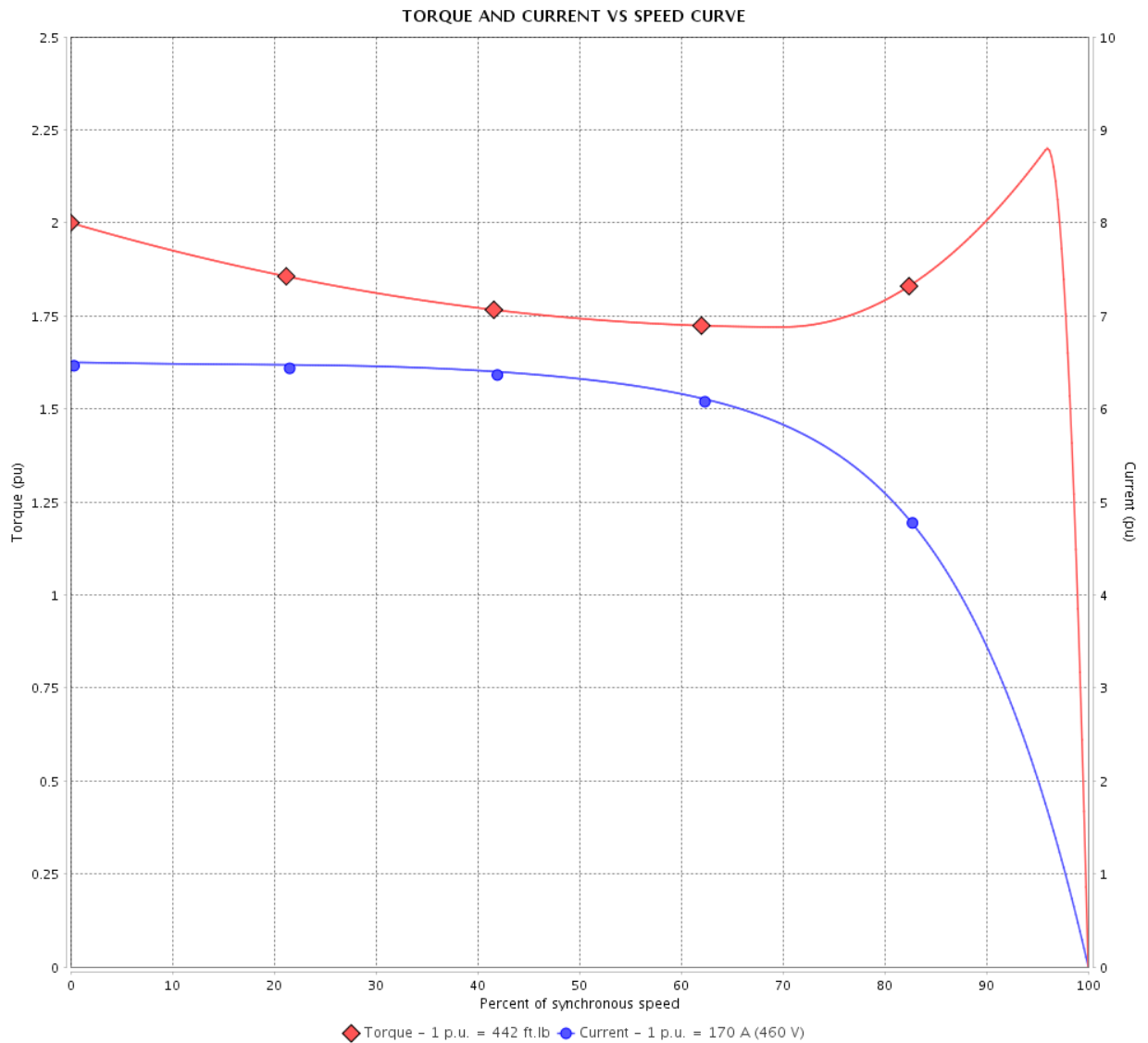
Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12378614

Catalog # : 15018XT3G445T



Performance : 460 V 60 Hz 4P

| | | | |
|---------------------|-------------|-----------------------|-----------------|
| Rated current | : 170 A | Moment of inertia (J) | : 66.7 sq.ft.lb |
| LRC | : 6.3 | Duty cycle | : Cont.(S1) |
| Rated torque | : 442 ft.lb | Insulation class | : F |
| Locked rotor torque | : 210 % | Service factor | : 1.15 |
| Breakdown torque | : 220 % | Temperature rise | : 80 K |
| Rated speed | : 1780 rpm | Design | : B |

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

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

Three Phase Induction Motor - Squirrel Cage



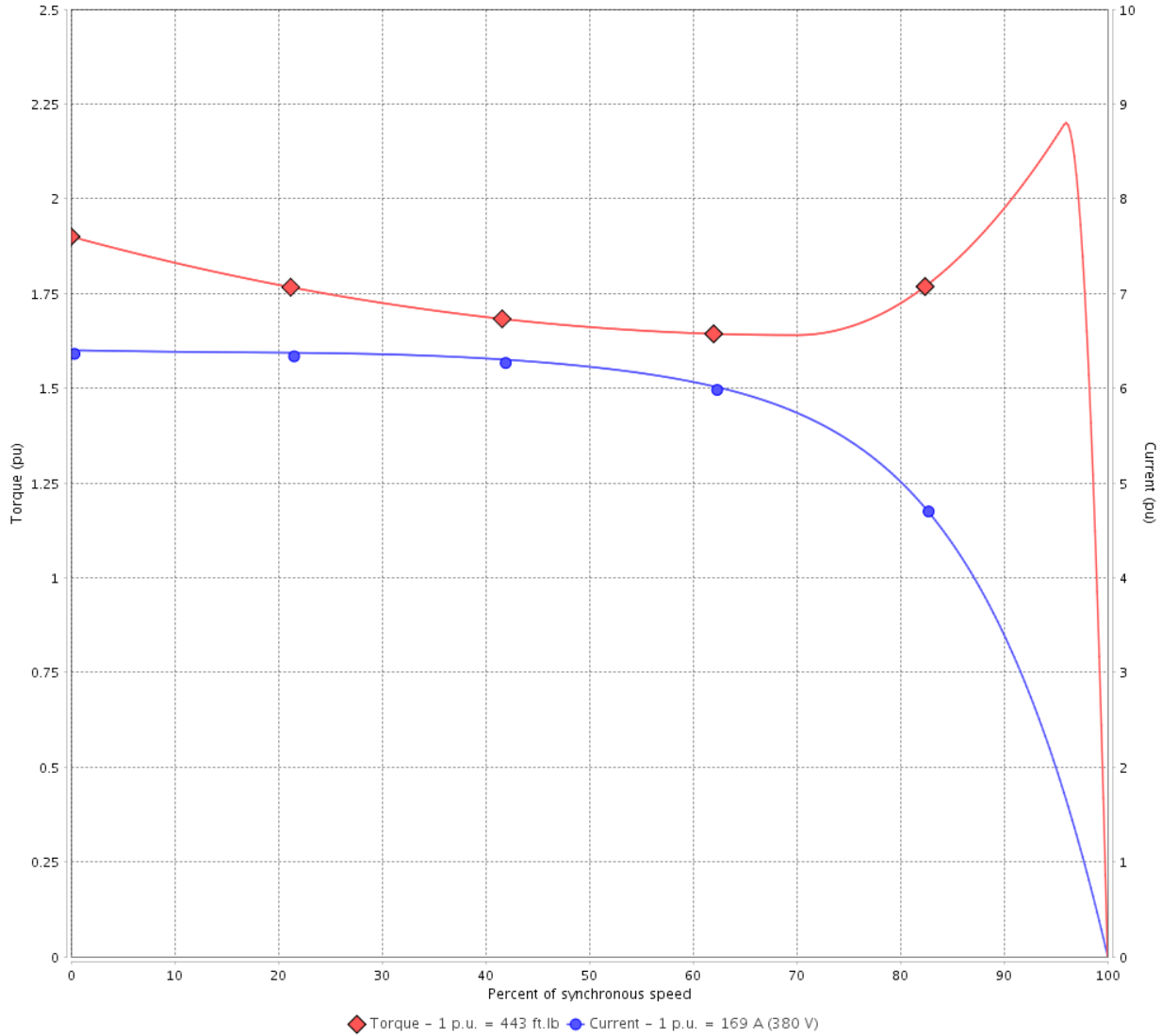
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12378614

Catalog # : 15018XT3G445T

TORQUE AND CURRENT VS SPEED CURVE



Performance : 380 V 50 Hz 4P IE2

| | | | |
|---------------------|-------------|-----------------------|-----------------|
| Rated current | : 169 A | Moment of inertia (J) | : 66.7 sq.ft.lb |
| LRC | : 6.0 | Duty cycle | : Cont.(S1) |
| Rated torque | : 443 ft.lb | Insulation class | : F |
| Locked rotor torque | : 200 % | Service factor | : 1.00 |
| Breakdown torque | : 220 % | Temperature rise | : 80 K |
| Rated speed | : 1480 rpm | Design | : B |

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

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



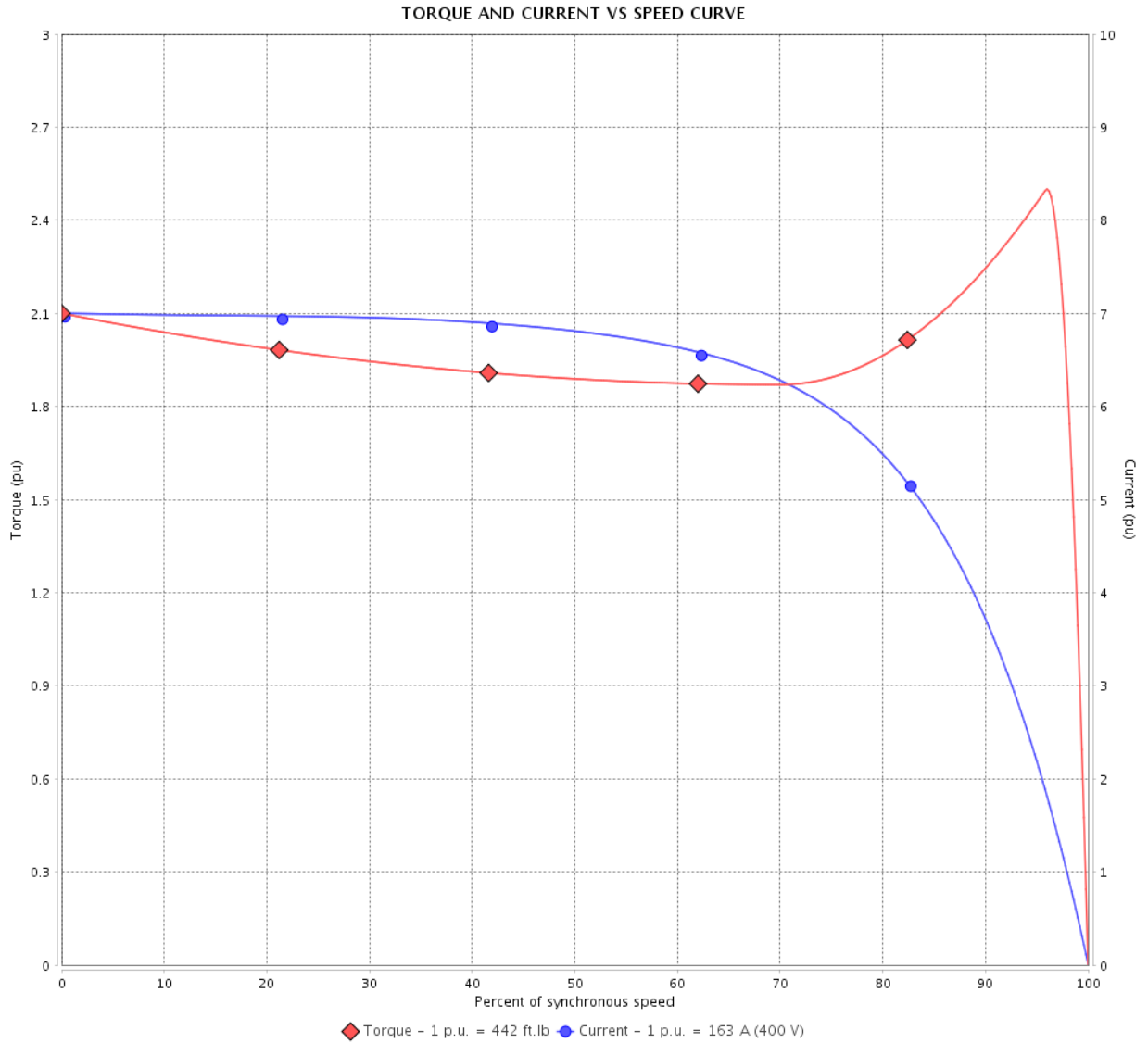
Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12378614

Catalog # : 15018XT3G445T



Performance : 400 V 50 Hz 4P IE2

| | | | |
|---------------------|-------------|-----------------------|-----------------|
| Rated current | : 163 A | Moment of inertia (J) | : 66.7 sq.ft.lb |
| LRC | : 6.6 | Duty cycle | : Cont.(S1) |
| Rated torque | : 442 ft.lb | Insulation class | : F |
| Locked rotor torque | : 229 % | Service factor | : 1.00 |
| Breakdown torque | : 250 % | Temperature rise | : 80 K |
| Rated speed | : 1483 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



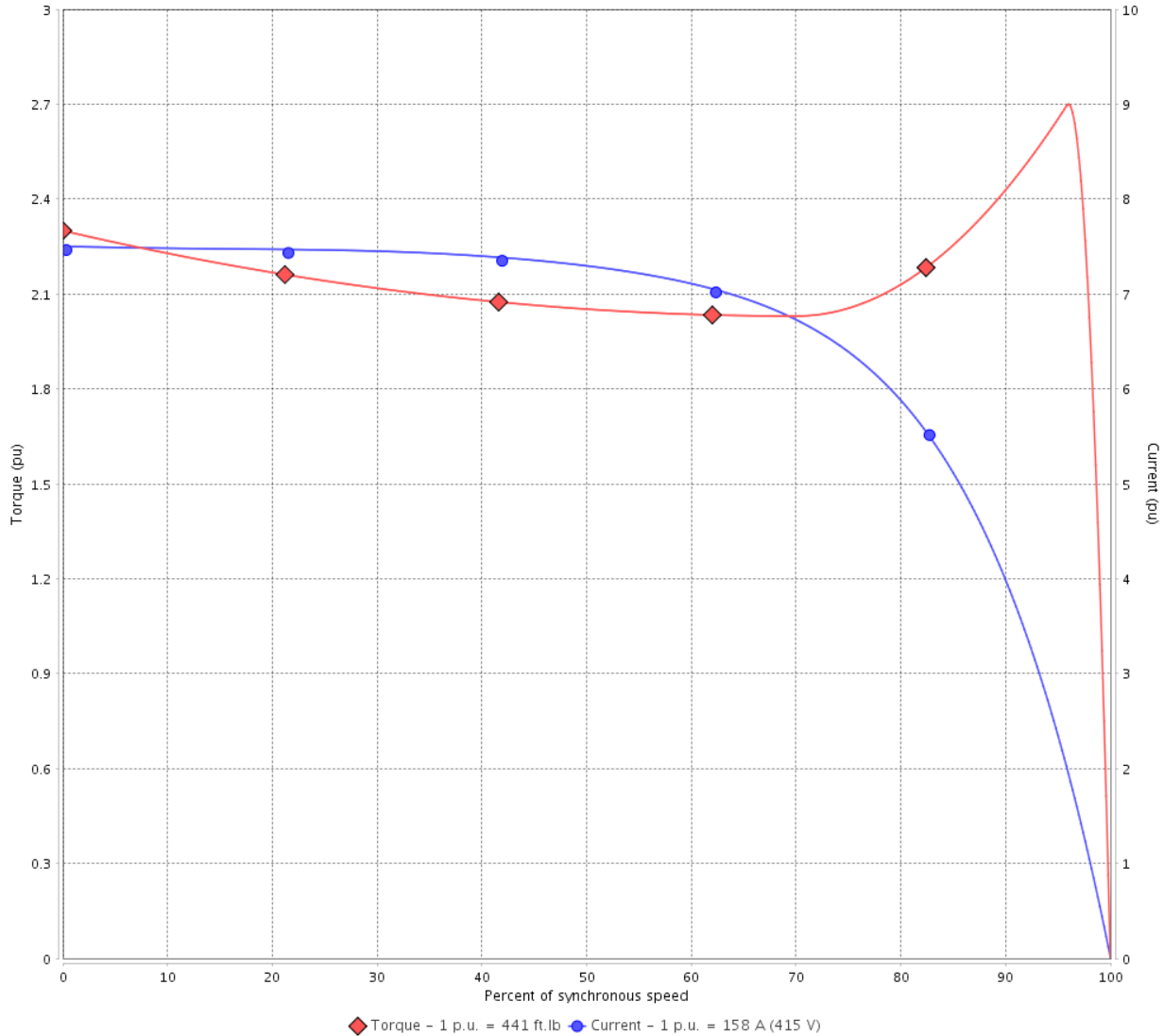
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12378614

Catalog # : 15018XT3G445T

TORQUE AND CURRENT VS SPEED CURVE



Performance : 415 V 50 Hz 4P IE3

| | | | |
|---------------------|-------------|-----------------------|-----------------|
| Rated current | : 158 A | Moment of inertia (J) | : 66.7 sq.ft.lb |
| LRC | : 7.1 | Duty cycle | : Cont.(S1) |
| Rated torque | : 441 ft.lb | Insulation class | : F |
| Locked rotor torque | : 250 % | Service factor | : 1.00 |
| Breakdown torque | : 270 % | Temperature rise | : 80 K |
| Rated speed | : 1485 rpm | Design | : B |

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

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

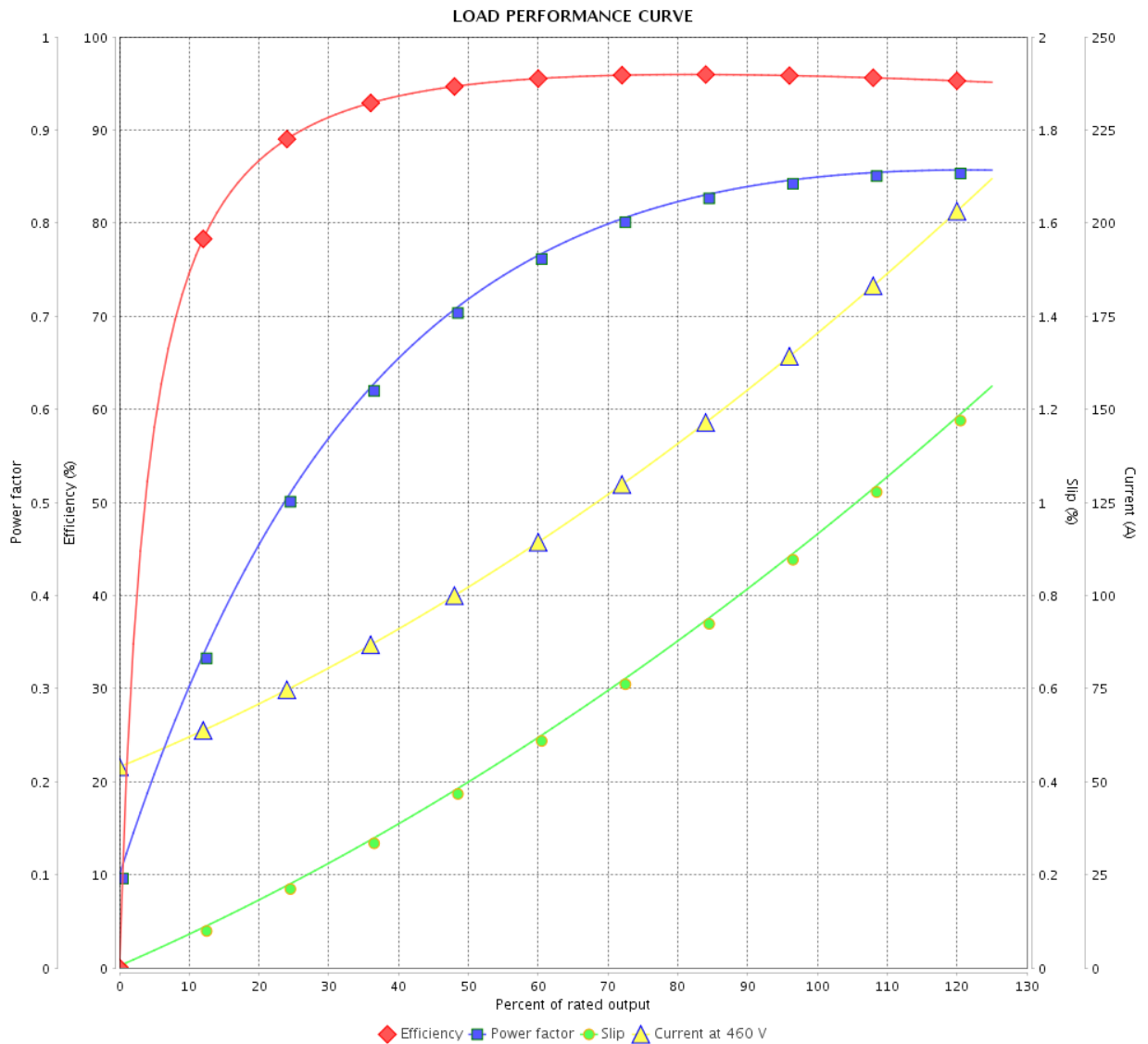


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12378614

Catalog # : 15018XT3G445T



Performance : 460 V 60 Hz 4P

Rated current : 170 A
 LRC : 6.3
 Rated torque : 442 ft.lb
 Locked rotor torque : 210 %
 Breakdown torque : 220 %
 Rated speed : 1780 rpm

Moment of inertia (J) : 66.7 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



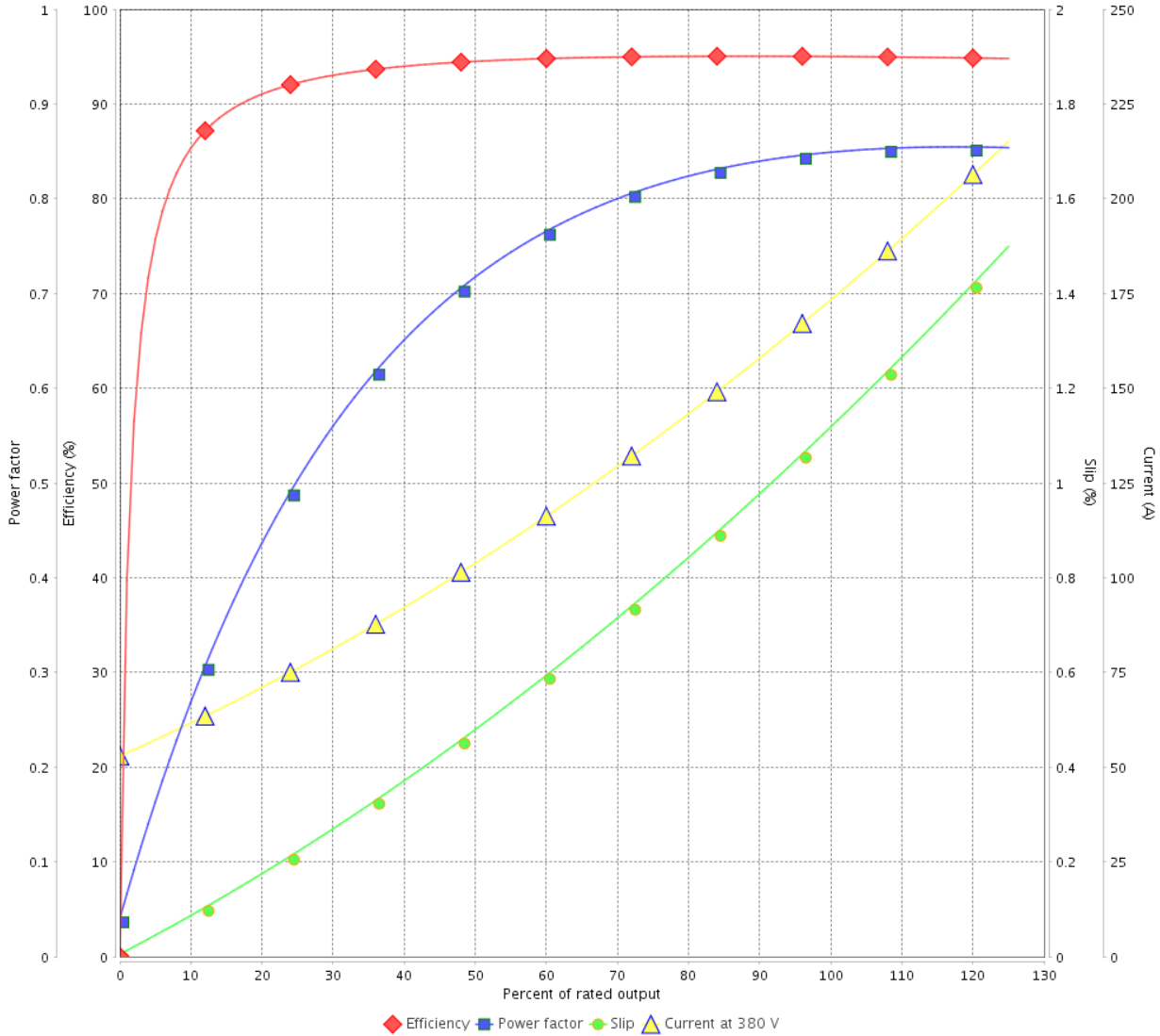
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12378614

Catalog # : 15018XT3G445T

LOAD PERFORMANCE CURVE



Performance : 380 V 50 Hz 4P IE2

Rated current : 169 A
 LRC : 6.0
 Rated torque : 443 ft.lb
 Locked rotor torque : 200 %
 Breakdown torque : 220 %
 Rated speed : 1480 rpm

Moment of inertia (J) : 66.7 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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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

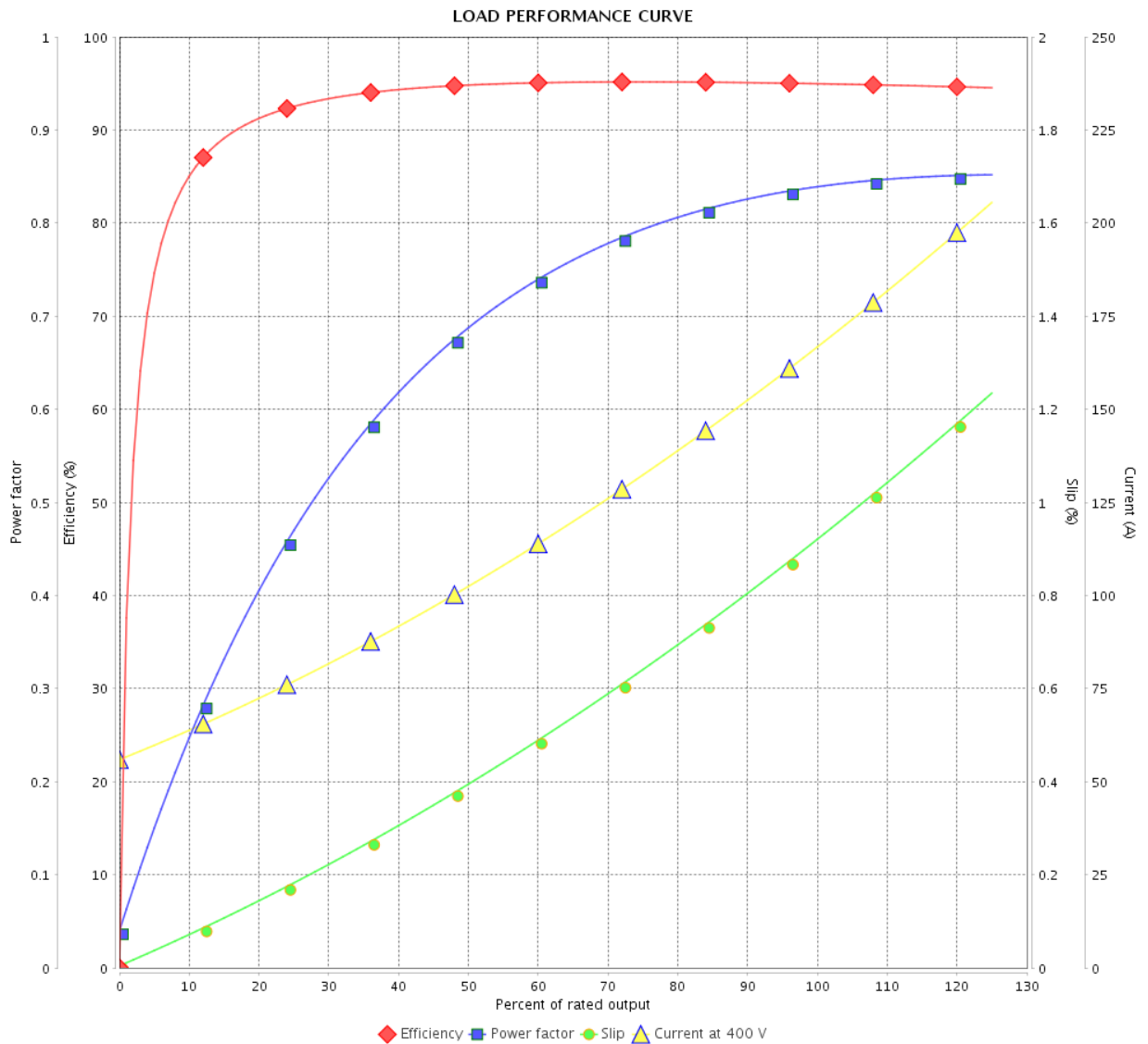


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12378614

Catalog # : 15018XT3G445T



Performance : 400 V 50 Hz 4P IE2

Rated current : 163 A
 LRC : 6.6
 Rated torque : 442 ft.lb
 Locked rotor torque : 229 %
 Breakdown torque : 250 %
 Rated speed : 1483 rpm

Moment of inertia (J) : 66.7 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

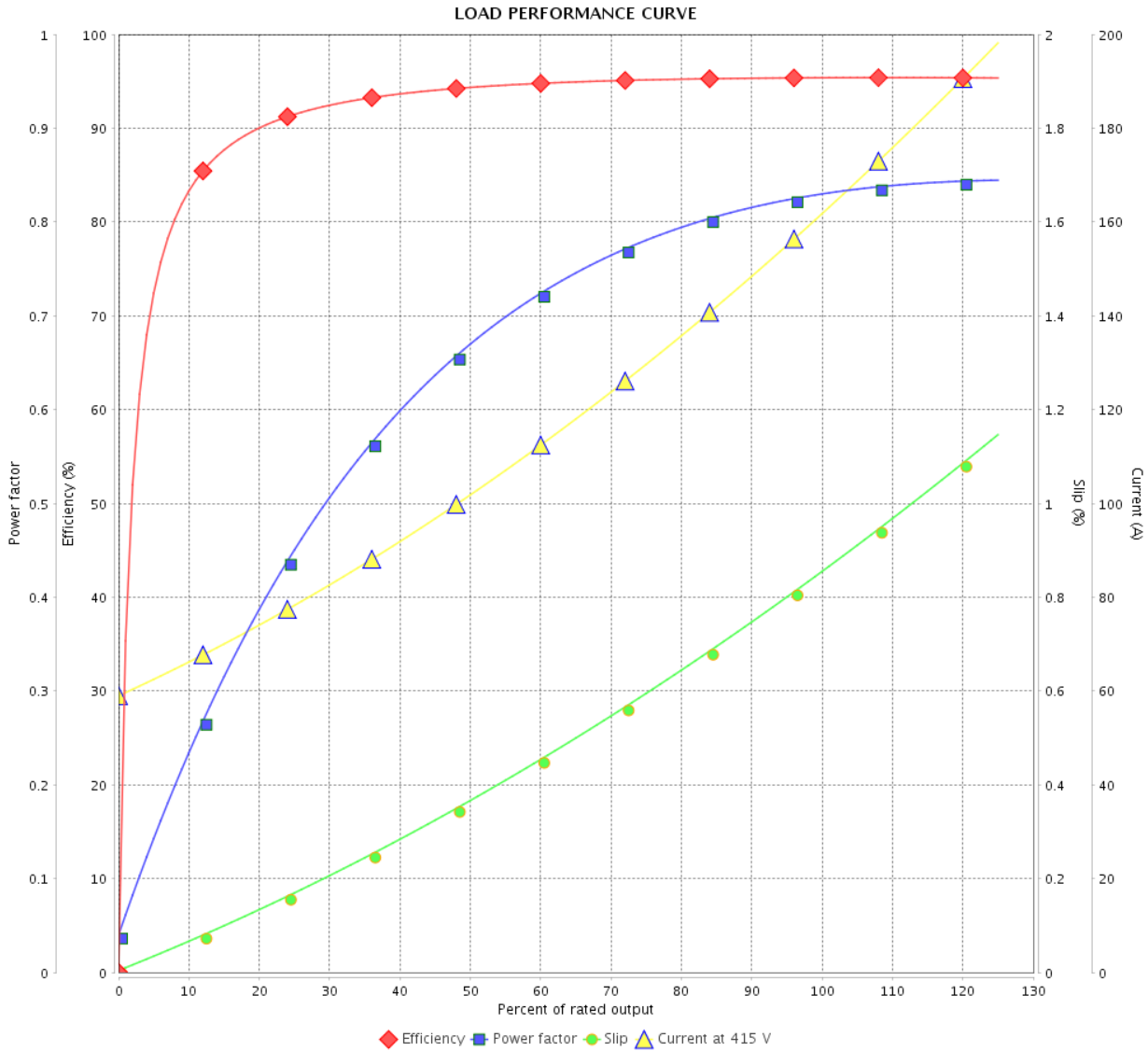


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12378614

Catalog # : 15018XT3G445T



Performance : 415 V 50 Hz 4P IE3

Rated current : 158 A
 LRC : 7.1
 Rated torque : 441 ft.lb
 Locked rotor torque : 250 %
 Breakdown torque : 270 %
 Rated speed : 1485 rpm

Moment of inertia (J) : 66.7 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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THERMAL LIMIT CURVE



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase
 Product code : 12378614
 Catalog # : 15018XT3G445T

Performance : 460 V 60 Hz 4P

| | |
|-----------------------------|---------------------------------------|
| Rated current : 170 A | Moment of inertia (J) : 66.7 sq.ft.lb |
| LRC : 6.3 | Duty cycle : Cont.(S1) |
| Rated torque : 442 ft.lb | Insulation class : F |
| Locked rotor torque : 210 % | Service factor : 1.15 |
| Breakdown torque : 220 % | Temperature rise : 80 K |
| Rated speed : 1780 rpm | Design : B |

Heating constant

Cooling constant

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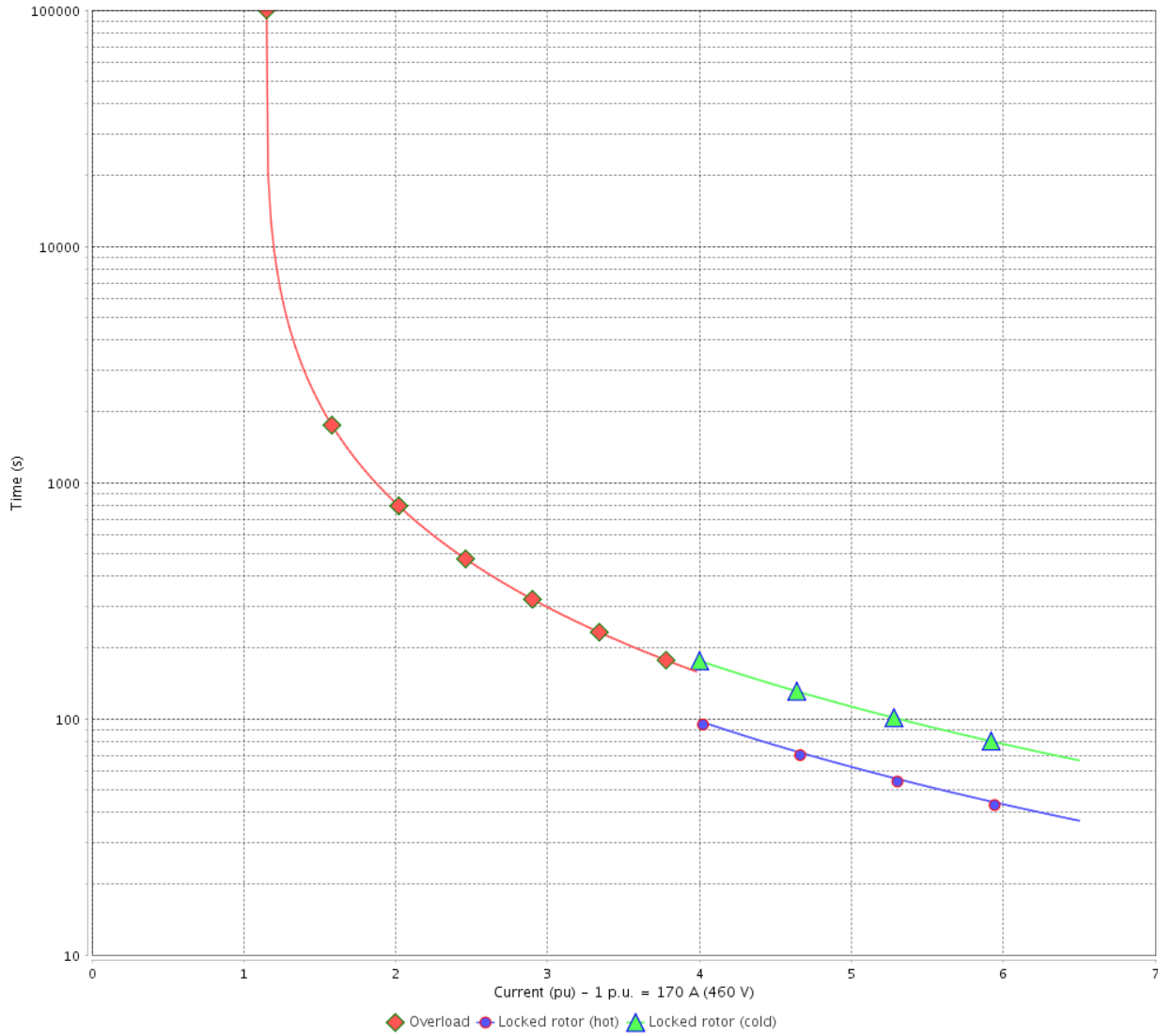
THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____

THERMAL LIMIT CURVE



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THERMAL LIMIT CURVE



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase
Product code : 12378614
Catalog # : 15018XT3G445T

Performance : 380 V 50 Hz 4P IE2

| | | | |
|---------------------|-------------|-----------------------|-----------------|
| Rated current | : 169 A | Moment of inertia (J) | : 66.7 sq.ft.lb |
| LRC | : 6.0 | Duty cycle | : Cont.(S1) |
| Rated torque | : 443 ft.lb | Insulation class | : F |
| Locked rotor torque | : 200 % | Service factor | : 1.00 |
| Breakdown torque | : 220 % | Temperature rise | : 80 K |
| Rated speed | : 1480 rpm | Design | : B |

Heating constant

Cooling constant

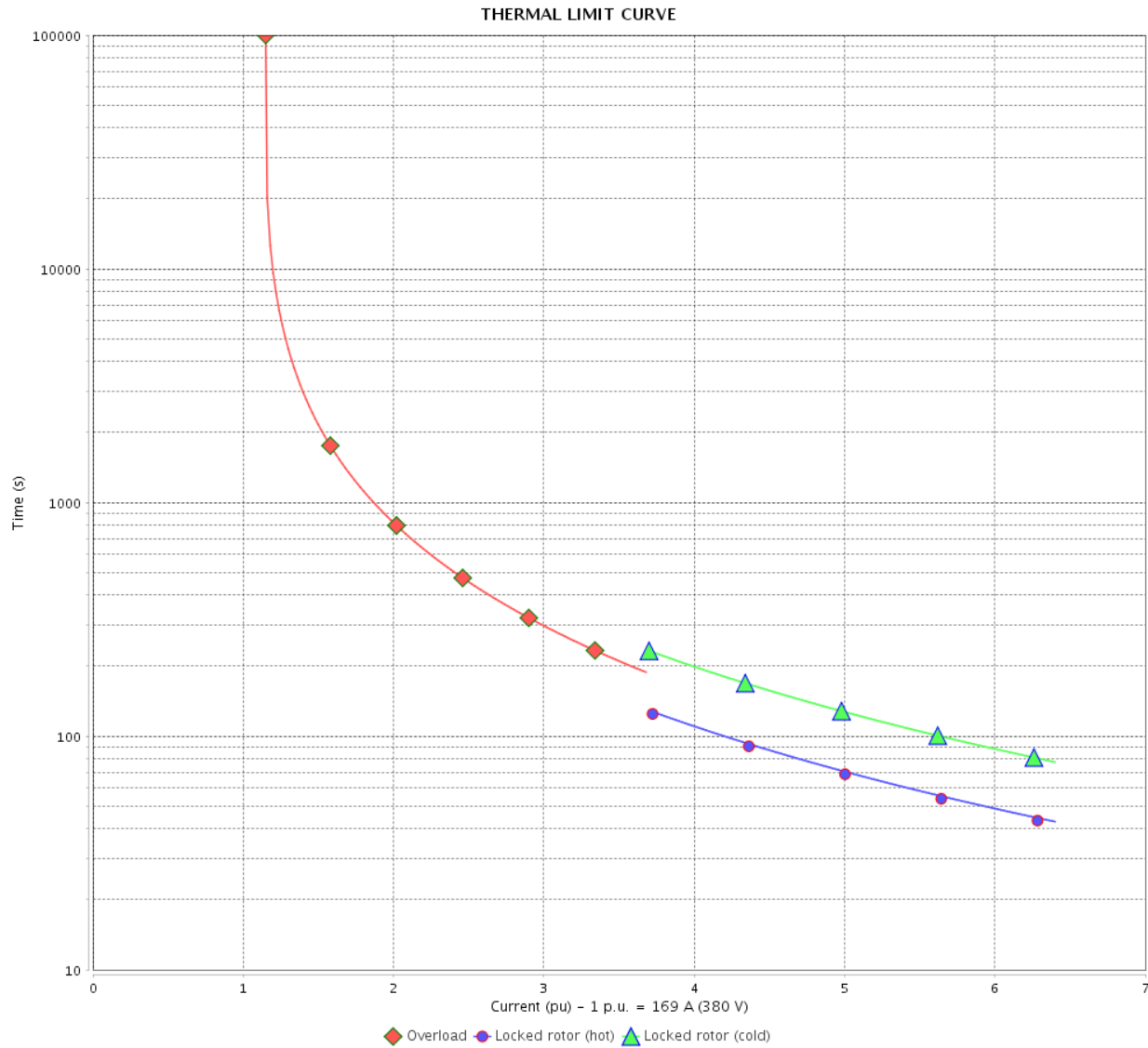
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THERMAL LIMIT CURVE

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 : 12378614
 Catalog # : 15018XT3G445T

Performance : 400 V 50 Hz 4P IE2

| | |
|-----------------------------|---------------------------------------|
| Rated current : 163 A | Moment of inertia (J) : 66.7 sq.ft.lb |
| LRC : 6.6 | Duty cycle : Cont.(S1) |
| Rated torque : 442 ft.lb | Insulation class : F |
| Locked rotor torque : 229 % | Service factor : 1.00 |
| Breakdown torque : 250 % | Temperature rise : 80 K |
| Rated speed : 1483 rpm | Design : B |

Heating constant

Cooling constant

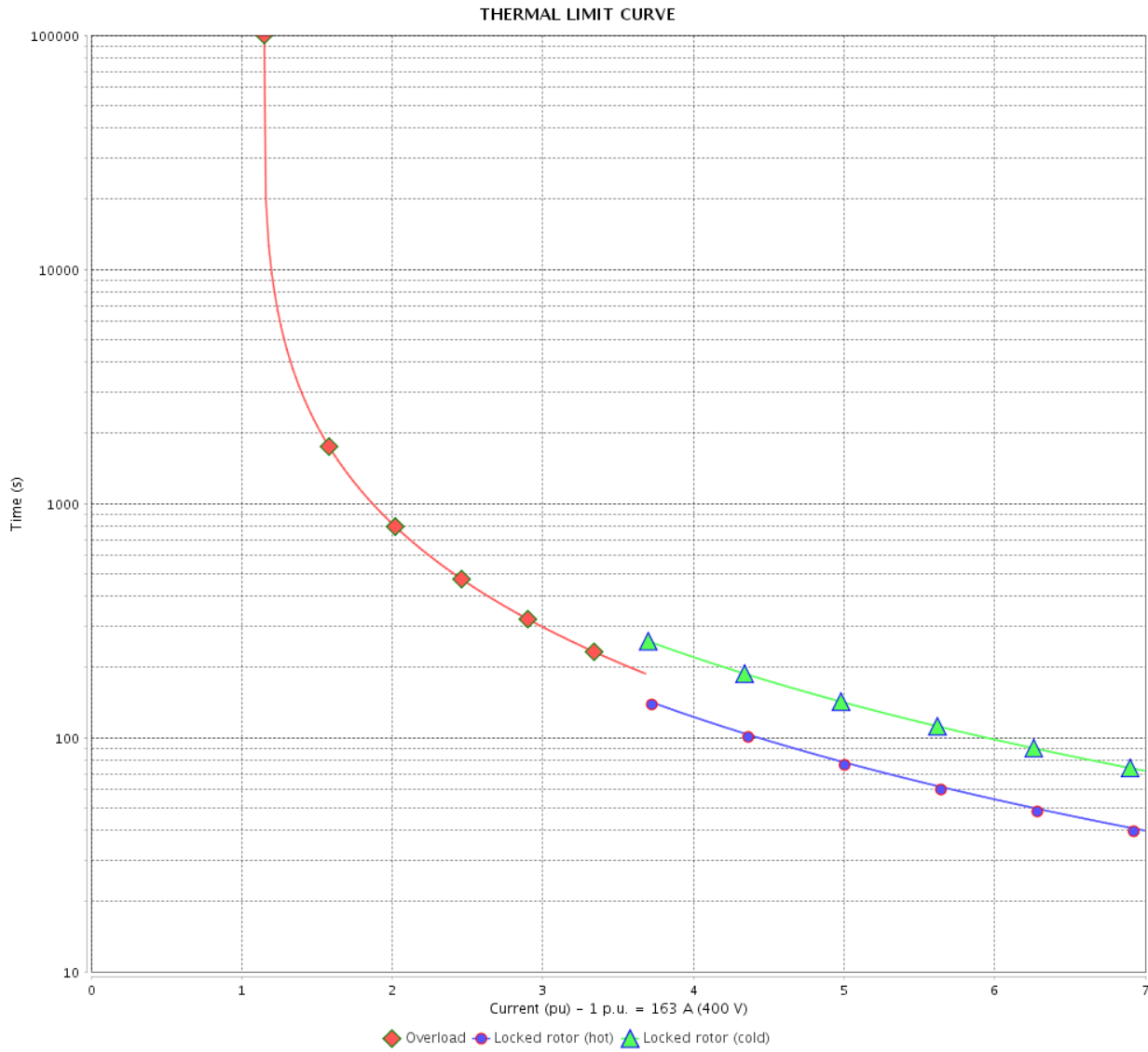
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THERMAL LIMIT CURVE

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 : 12378614
 Catalog # : 15018XT3G445T

Performance : 415 V 50 Hz 4P IE3

| | |
|-----------------------------|---------------------------------------|
| Rated current : 158 A | Moment of inertia (J) : 66.7 sq.ft.lb |
| LRC : 7.1 | Duty cycle : Cont.(S1) |
| Rated torque : 441 ft.lb | Insulation class : F |
| Locked rotor torque : 250 % | Service factor : 1.00 |
| Breakdown torque : 270 % | Temperature rise : 80 K |
| Rated speed : 1485 rpm | Design : B |

Heating constant

Cooling constant

| Rev. | Changes Summary | Performed | Checked | Date |
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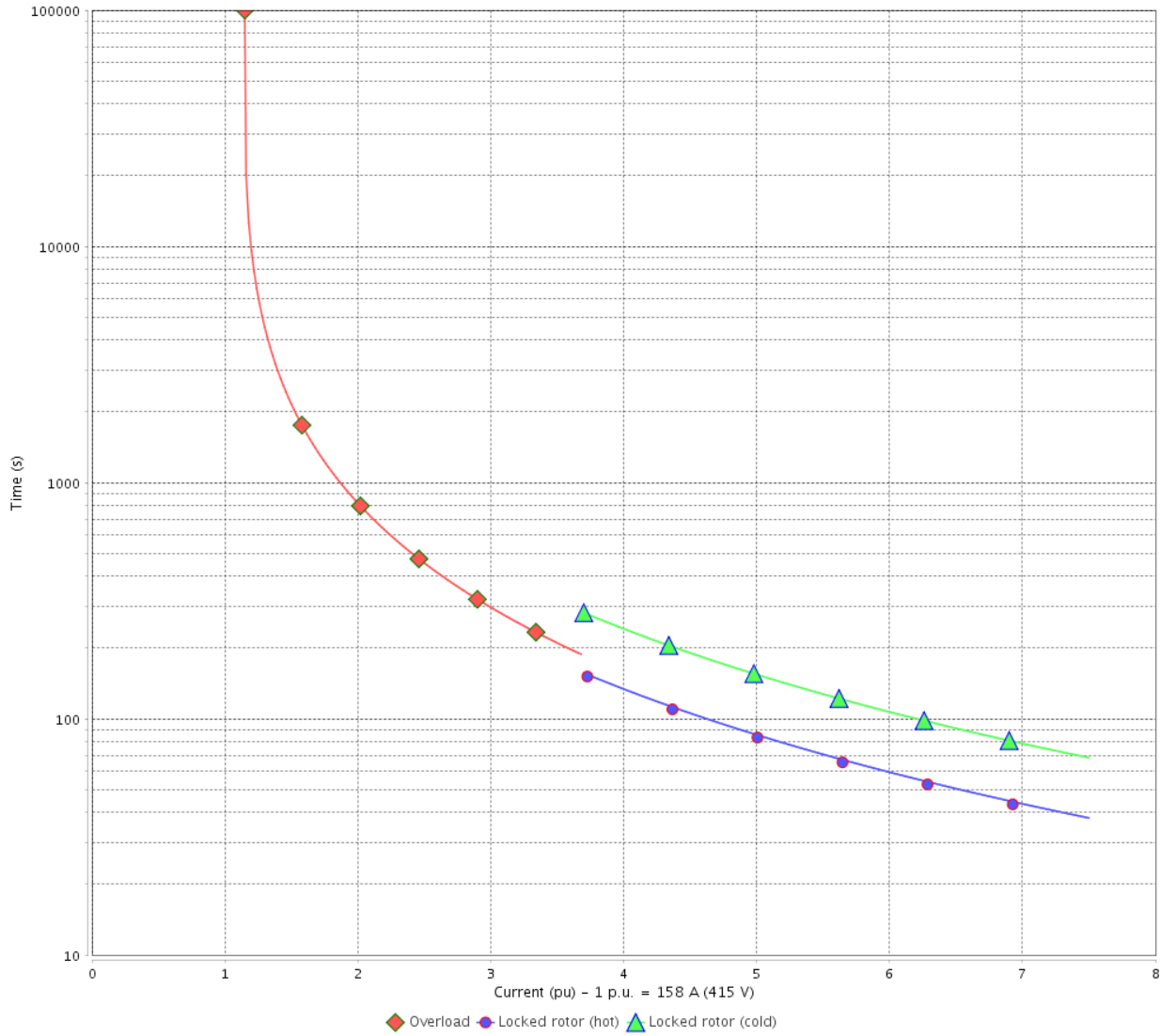
THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____

THERMAL LIMIT CURVE



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

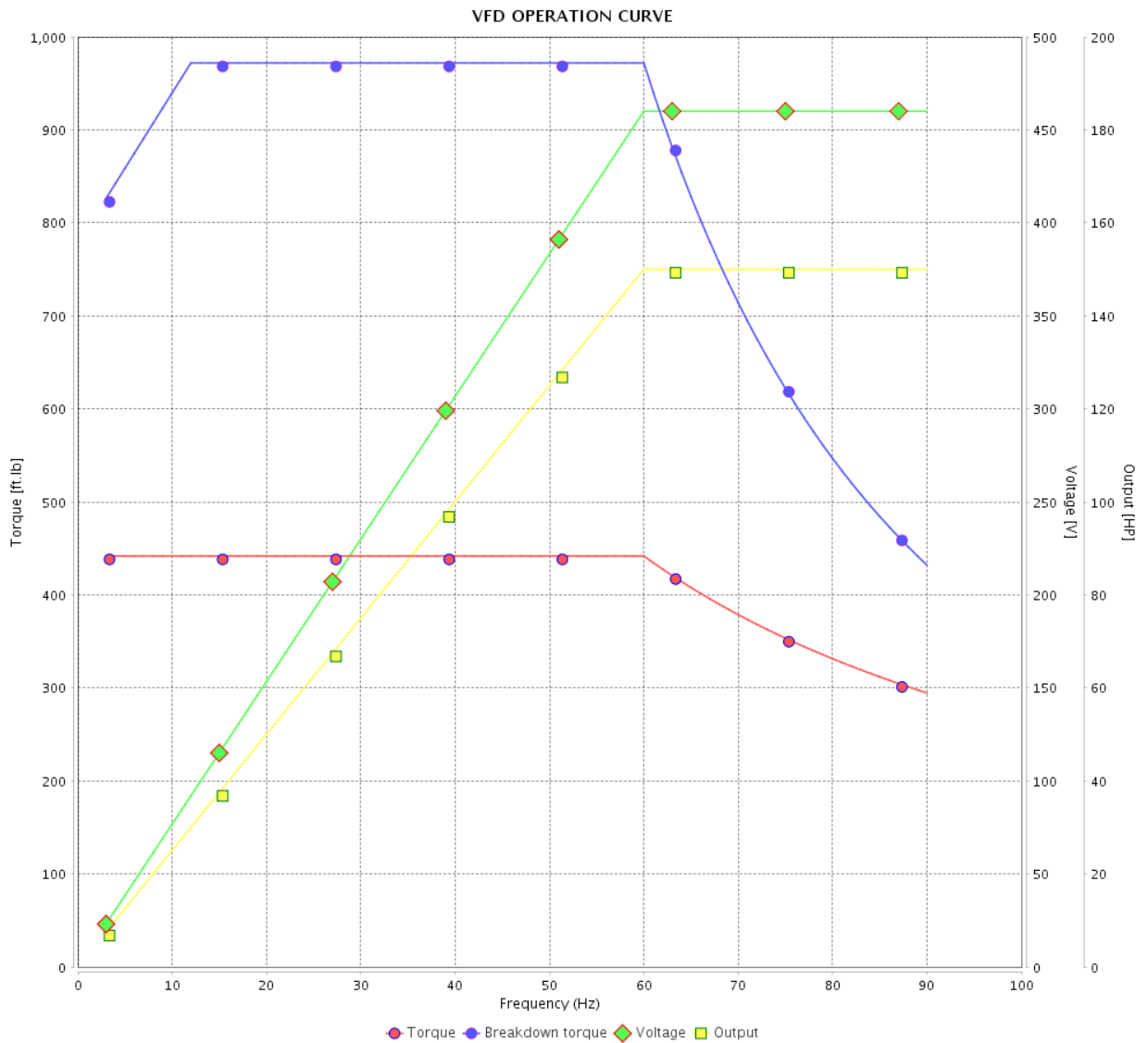


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12378614

Catalog # : 15018XT3G445T



Performance : 460 V 60 Hz 4P

Rated current : 170 A
 LRC : 6.3
 Rated torque : 442 ft.lb
 Locked rotor torque : 210 %
 Breakdown torque : 220 %
 Rated speed : 1780 rpm

Moment of inertia (J) : 66.7 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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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



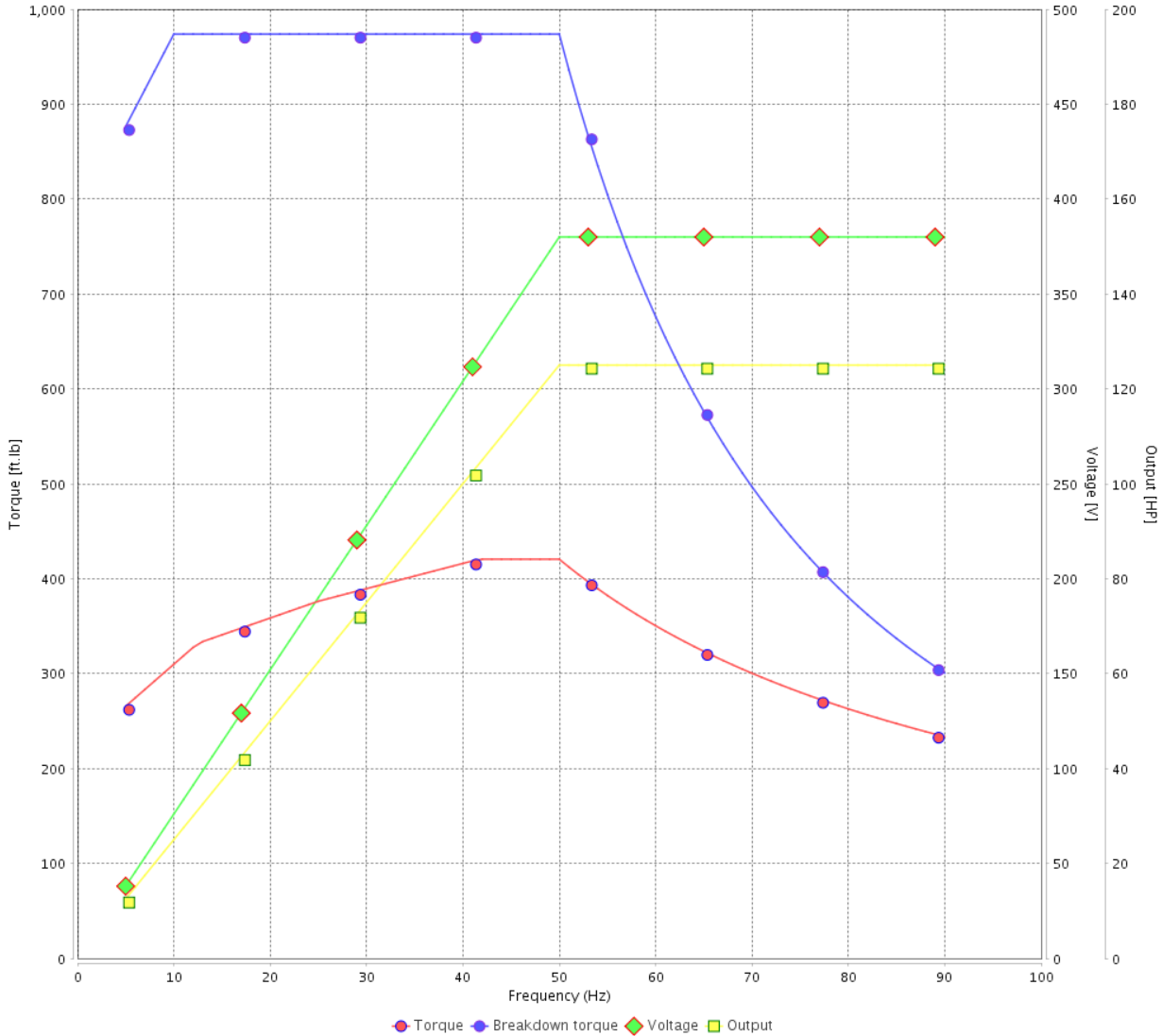
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12378614

Catalog # : 15018XT3G445T

VFD OPERATION CURVE



Performance : 380 V 50 Hz 4P IE2

Rated current : 169 A
 LRC : 6.0
 Rated torque : 443 ft.lb
 Locked rotor torque : 200 %
 Breakdown torque : 220 %
 Rated speed : 1480 rpm

Moment of inertia (J) : 66.7 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

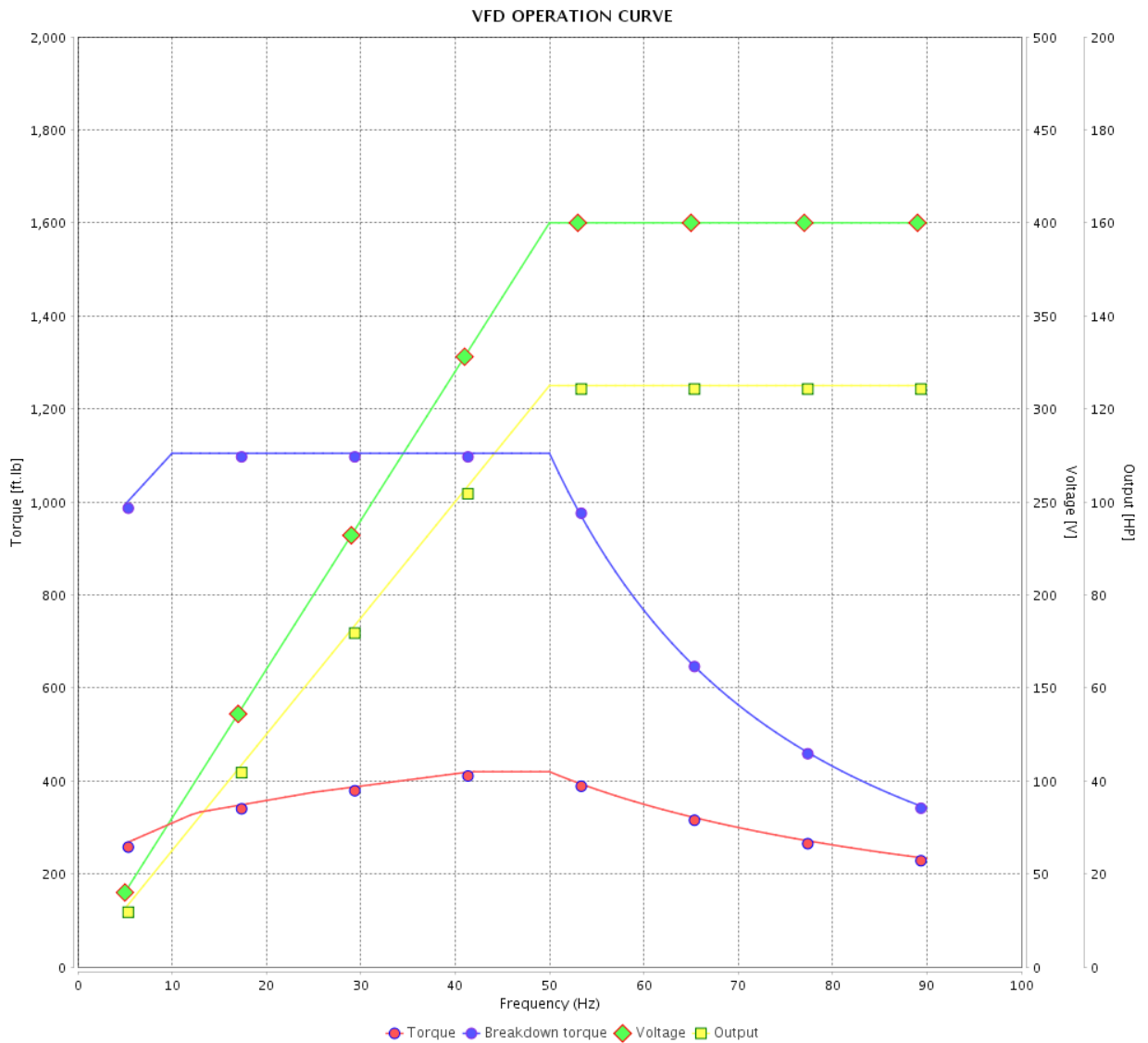


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12378614

Catalog # : 15018XT3G445T



Performance : 400 V 50 Hz 4P IE2

Rated current : 163 A
 LRC : 6.6
 Rated torque : 442 ft.lb
 Locked rotor torque : 229 %
 Breakdown torque : 250 %
 Rated speed : 1483 rpm

Moment of inertia (J) : 66.7 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



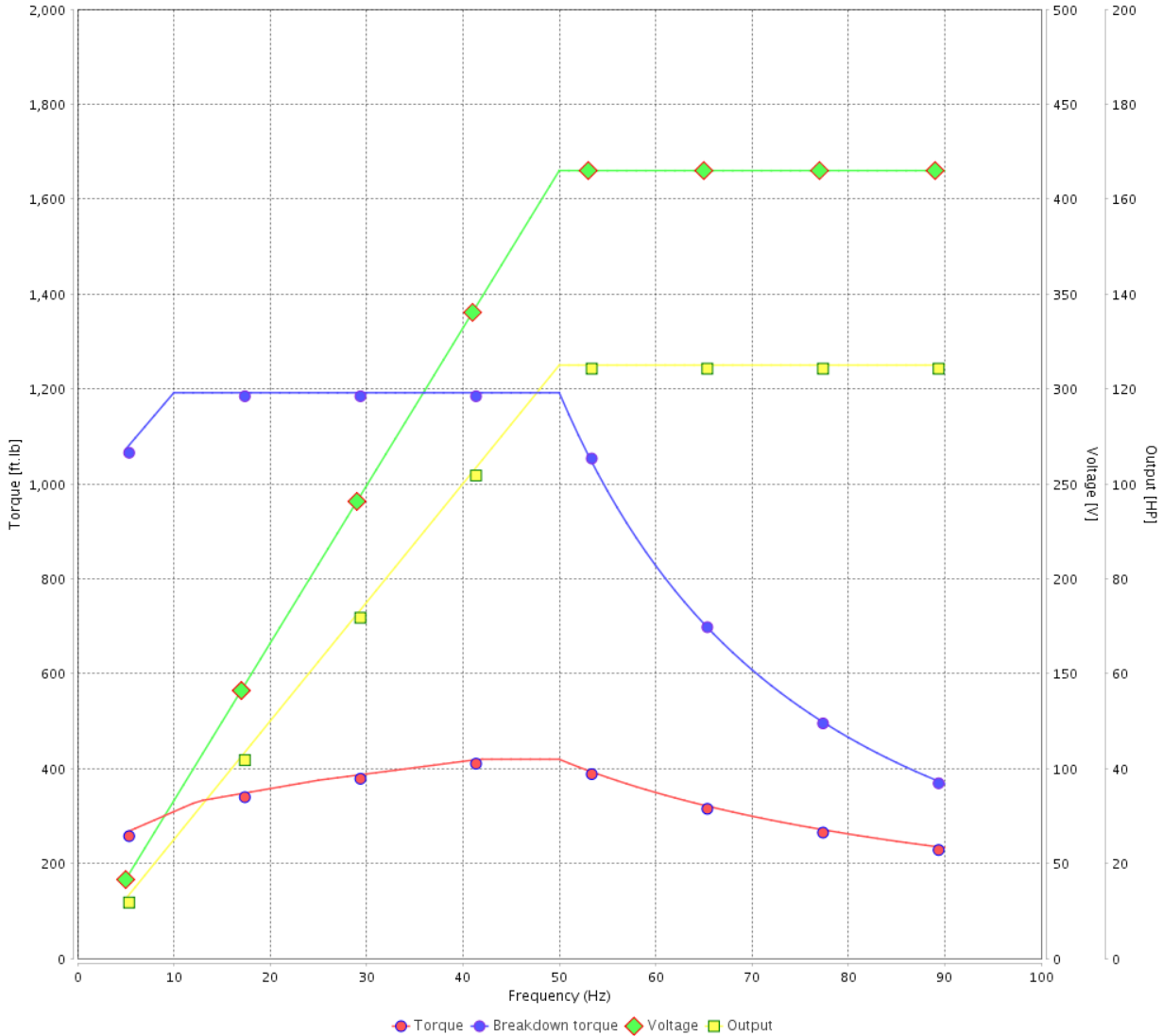
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12378614

Catalog # : 15018XT3G445T

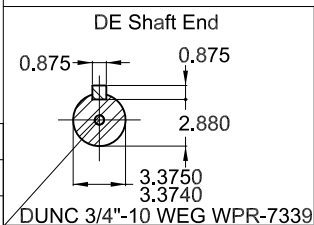
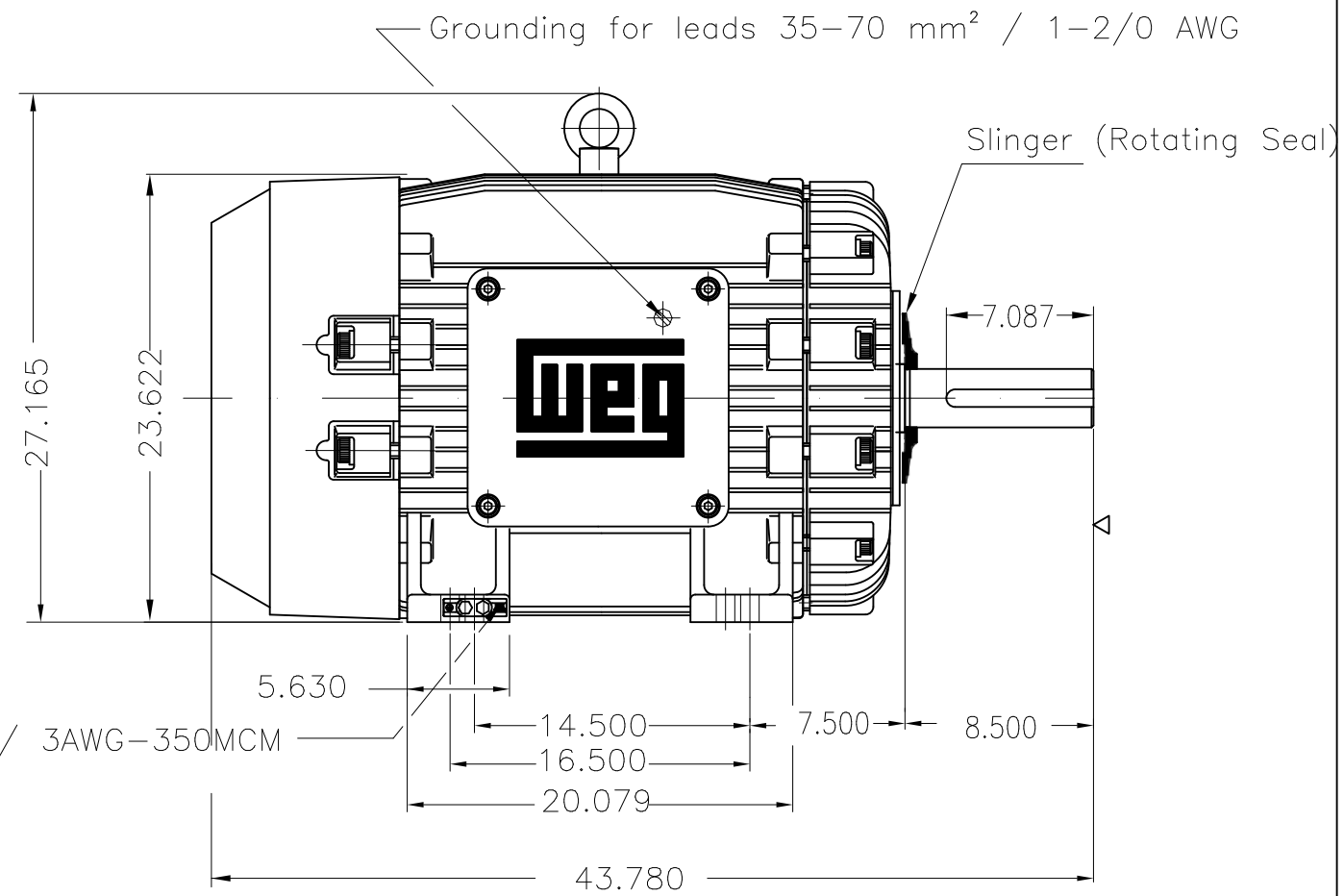
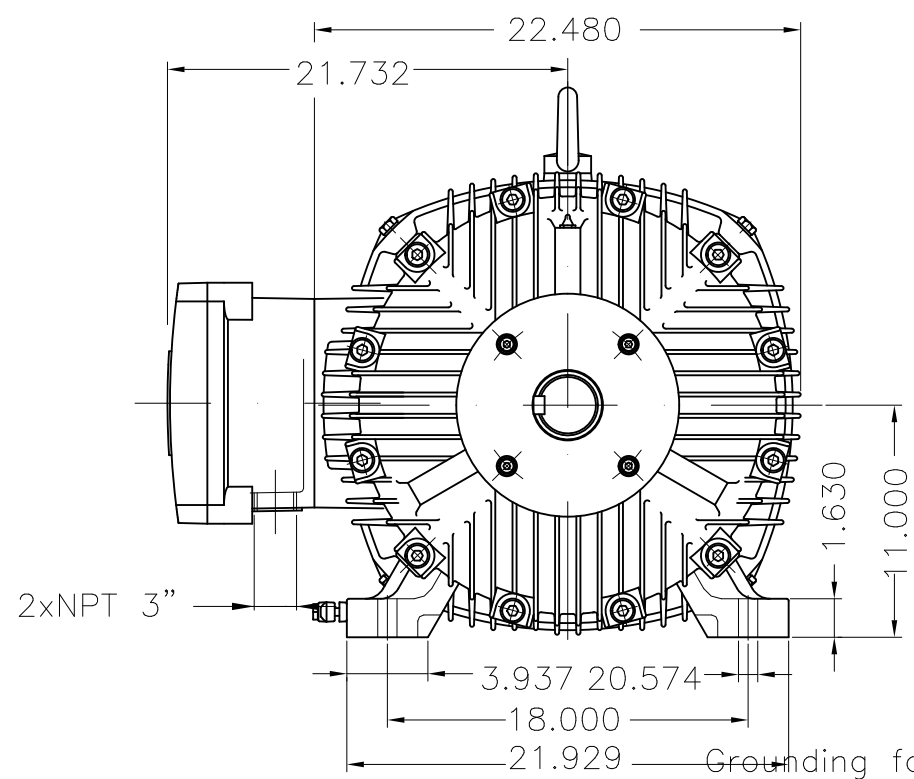
VFD OPERATION CURVE



Performance : 415 V 50 Hz 4P IE3

| | | | |
|---------------------|-------------|-----------------------|-----------------|
| Rated current | : 158 A | Moment of inertia (J) | : 66.7 sq.ft.lb |
| LRC | : 7.1 | Duty cycle | : Cont.(S1) |
| Rated torque | : 441 ft.lb | Insulation class | : F |
| Locked rotor torque | : 250 % | Service factor | : 1.00 |
| Breakdown torque | : 270 % | Temperature rise | : 80 K |
| Rated speed | : 1485 rpm | Design | : B |

| Rev. | Changes Summary | Performed | Checked | Date |
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Color RAL 5009
 Painting plan 202P
 Mounting B3R(D)

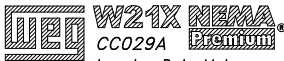
150 HP 04 Poles 60 Hz

| ECM | LOC | SUMMARY OF MODIFICATIONS | EXECUTED | CHECKED | RELEASED | DATE | VER |
|----------|-----------|--|---------------------|---------|----------|------|-----|
| EXECUTED | PIRWBUSER | THREE PH. MOTOR EXPLOSION PROOF PREM. EFF. | | | | | |
| CHECKED | | FRAME 444/5T IP55 TEFC | | | | | |
| RELEASED | | | | | | | |
| REL DT. | WMO | Jaragua do Sul | Product Engineering | | | | |

PREVIEW
 WDD



SHEET 1 / 1



Inverter Duty Motor
Severe Duty



TEMP CODE T3C
CSA/UL: Class I - Div. 1 - Groups C and D
CSA: Class II - Div. 1 - Groups F and G

CSA: Class I - Zone 1 - IIB
EXPLOSION PROOF MOTOR

FOR USE ON VPWM VFD 1000:1VT, 2:1CT, 1.0SF, T3C, AMB 40°C.

MODEL 15018XT3G445T
MADE IN BRAZIL
12378614

| | | | |
|----------------------|---|--------------------------|--------|
| PH 3 | FR 444/5T | HP(kW) 150(110) | Hz 60 |
| V 460 | A 170 | RPM 1780 | |
| NEMA NOM. EFF. 95.8% | | INS CL F Δ T 80 K | IP55 |
| PF 0.85 | DUTY CONT. | | CODE G |
| ENCL. TEFC | SF 1.15 | SFA 195 | |
| AMB 40°C | DES B | | |
| AMB 55°C SF1.0 | -bearings lub interval reduced by a factor of 50% | | |

| PART-WINDING | | | | | | WYE-DELTA | | | | | |
|--------------|------|------|------|------|------|-----------|------|------|------|------|------|
| START | | | RUN | | | START | | | RUN | | |
| ○T12 | ○T10 | ○T11 | ○T12 | ○T10 | ○T11 | ○T12 | ○T10 | ○T11 | ○T12 | ○T10 | ○T11 |
| ○T7 | ○T8 | ○T9 | ○T7 | ○T8 | ○T9 | ○T6 | ○T4 | ○T5 | ○T6 | ○T4 | ○T5 |
| ○T6 | ○T4 | ○T5 | ○T6 | ○T4 | ○T5 | ○T7 | ○T8 | ○T9 | ○T7 | ○T8 | ○T9 |
| ○T1 | ○T2 | ○T3 | ○T1 | ○T2 | ○T3 | ○T1 | ○T2 | ○T3 | ○T1 | ○T2 | ○T3 |
| L1 | L2 | L3 | L1 | L2 | L3 | L1 | L2 | L3 | L1 | L2 | L3 |

→ 6219-C3(28g) MOBIL POLYREX EM
 → 6316-C3(34g) 8033 h

ALT 1000 m.a.s.l 2200 Lbs