

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



| | | | | | |
|--|----------------------|---------------------------------------|--|----------------------------|---------------|
| Customer | | | | | |
| Product line | | : NEMA Premium Efficiency Three-Phase | | Product code : | 11485817 |
| | | | | Catalog # : | 10018XT3G405T |
| Frame | : 404/5T | 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 | | : 1196 lb | |
| Protection degree | : IP55 | Moment of inertia (J) | | : 26.4 sq.ft.lb | |
| Design | : B | | | | |
| Output [HP] | 100 | 75 | 75 | 75 | |
| Poles | 4 | 4 | 4 | 4 | |
| Frequency [Hz] | 60 | 50 | 50 | 50 | |
| Rated voltage [V] | 460 | 380 | 400 | 415 | |
| Rated current [A] | 113 | 103 | 100 | 98.7 | |
| L. R. Amperes [A] | 814 | 773 | 840 | 898 | |
| LRC [A] | 7.2x(Code H) | 7.5x(Code H) | 8.4x(Code J) | 9.1x(Code K) | |
| No load current [A] | 39.0 | 39.0 | 42.0 | 45.0 | |
| Rated speed [RPM] | 1780 | 1480 | 1485 | 1485 | |
| Slip [%] | 1.11 | 1.33 | 1.00 | 1.00 | |
| Rated torque [ft.lb] | 295 | 266 | 265 | 265 | |
| Locked rotor torque [%] | 270 | 270 | 300 | 320 | |
| Breakdown torque [%] | 280 | 310 | 360 | 370 | |
| Service factor | 1.15 | 1.00 | 1.00 | 1.00 | |
| Temperature rise | 80 K | 80 K | 80 K | 80 K | |
| Locked rotor time | 23s (cold) 13s (hot) | 21s (cold) 12s (hot) | 21s (cold) 12s (hot) | 21s (cold) 12s (hot) | |
| Noise level ² | 75.0 dB(A) | 70.0 dB(A) | 70.0 dB(A) | 70.0 dB(A) | |
| Efficiency (%) | 25% | 94.0 | 93.9 | 93.4 | 93.4 |
| | 50% | 94.5 | 94.0 | 93.6 | 93.6 |
| | 75% | 95.0 | 94.5 | 94.5 | 94.5 |
| | 100% | 95.4 | 94.5 | 94.5 | 94.5 |
| Power Factor | 25% | 0.47 | 0.44 | 0.41 | 0.38 |
| | 50% | 0.72 | 0.69 | 0.65 | 0.62 |
| | 75% | 0.82 | 0.80 | 0.77 | 0.75 |
| | 100% | 0.87 | 0.86 | 0.84 | 0.82 |
| Bearing type | | Drive end : 6217 C3 | Non drive end : 6314 C3 | Foundation loads | |
| Sealing | | : Oil Seal | : Lip Seal | Max. traction : 2345 lb | |
| Lubrication interval | | : 9149 h | : 9789 h | Max. compression : 3541 lb | |
| Lubricant amount | | : 21 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. | | |
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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



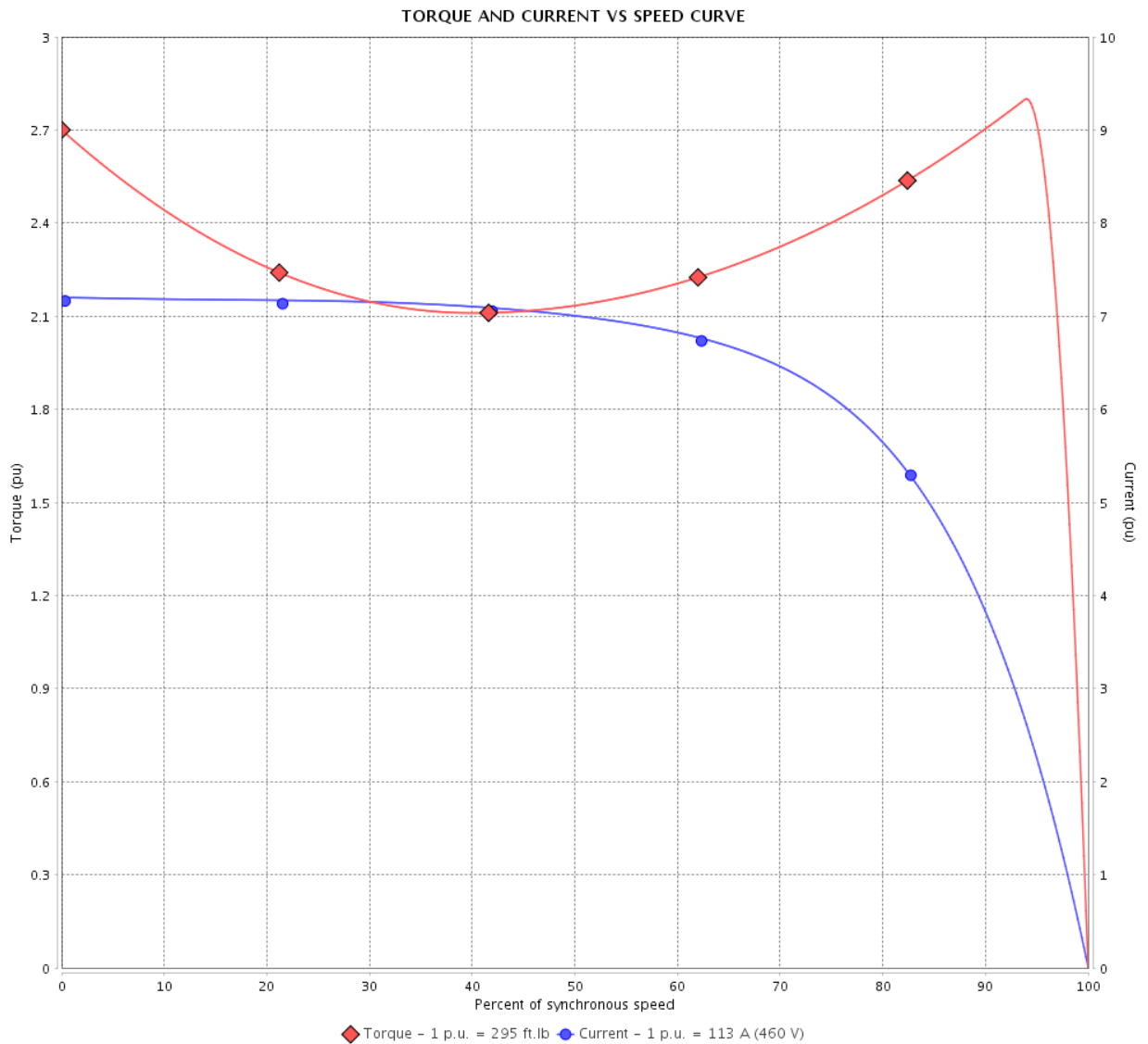
Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11485817

Catalog # : 10018XT3G405T



Performance : 460 V 60 Hz 4P

| | | | |
|---------------------|-------------|-----------------------|-----------------|
| Rated current | : 113 A | Moment of inertia (J) | : 26.4 sq.ft.lb |
| LRC | : 7.2 | Duty cycle | : Cont.(S1) |
| Rated torque | : 295 ft.lb | Insulation class | : F |
| Locked rotor torque | : 270 % | Service factor | : 1.15 |
| Breakdown torque | : 280 % | Temperature rise | : 80 K |
| Rated speed | : 1780 rpm | Design | : B |

Locked rotor time : 23s (cold) 13s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



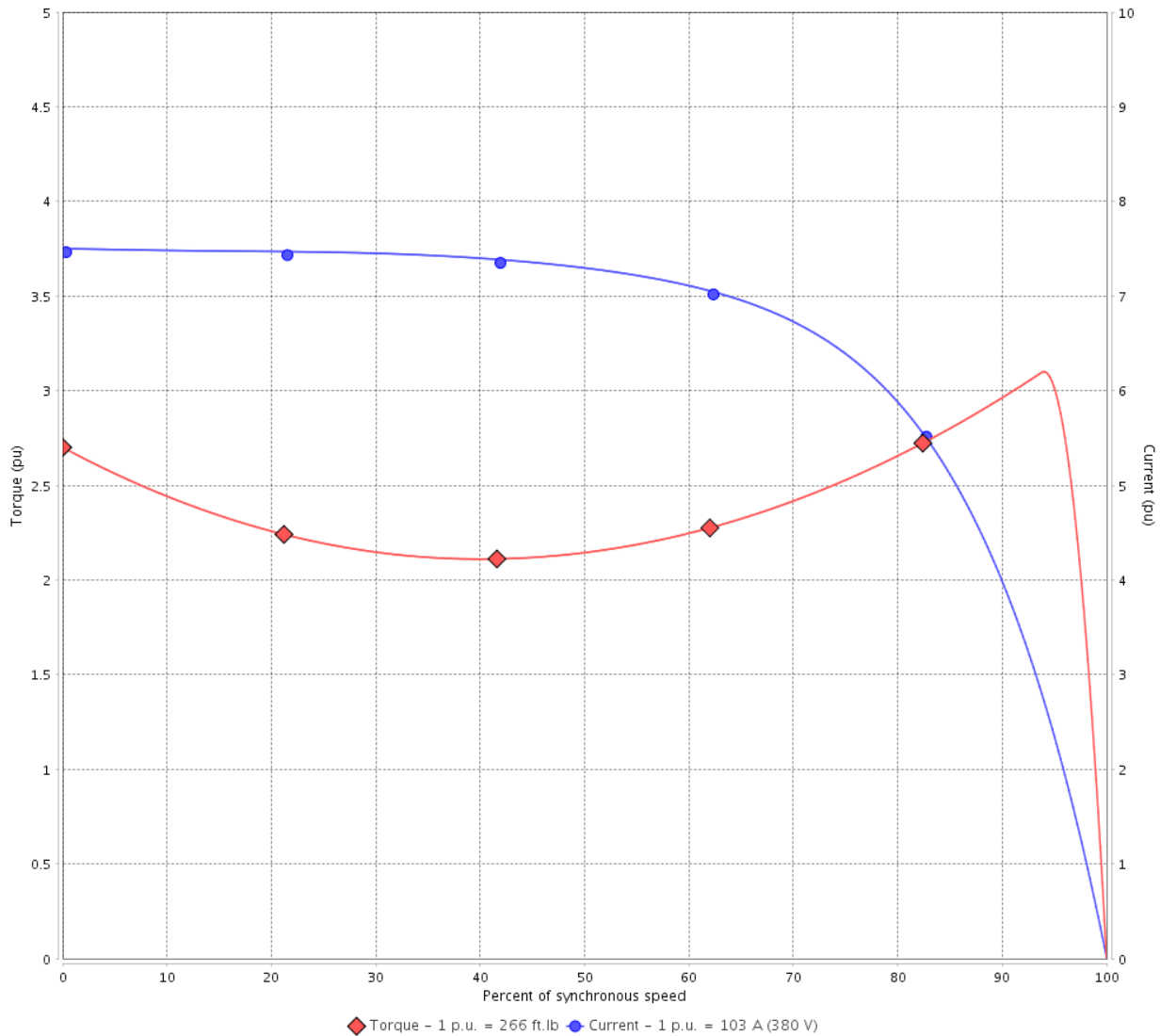
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11485817

Catalog # : 10018XT3G405T

TORQUE AND CURRENT VS SPEED CURVE



Performance : 380 V 50 Hz 4P IE2

| | | | |
|---------------------|-------------|-----------------------|-----------------|
| Rated current | : 103 A | Moment of inertia (J) | : 26.4 sq.ft.lb |
| LRC | : 7.5 | Duty cycle | : Cont.(S1) |
| Rated torque | : 266 ft.lb | Insulation class | : F |
| Locked rotor torque | : 270 % | Service factor | : 1.00 |
| Breakdown torque | : 310 % | Temperature rise | : 80 K |
| Rated speed | : 1480 rpm | Design | : B |

Locked rotor time : 21s (cold) 12s (hot)

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TORQUE AND CURRENT VS SPEED CURVE



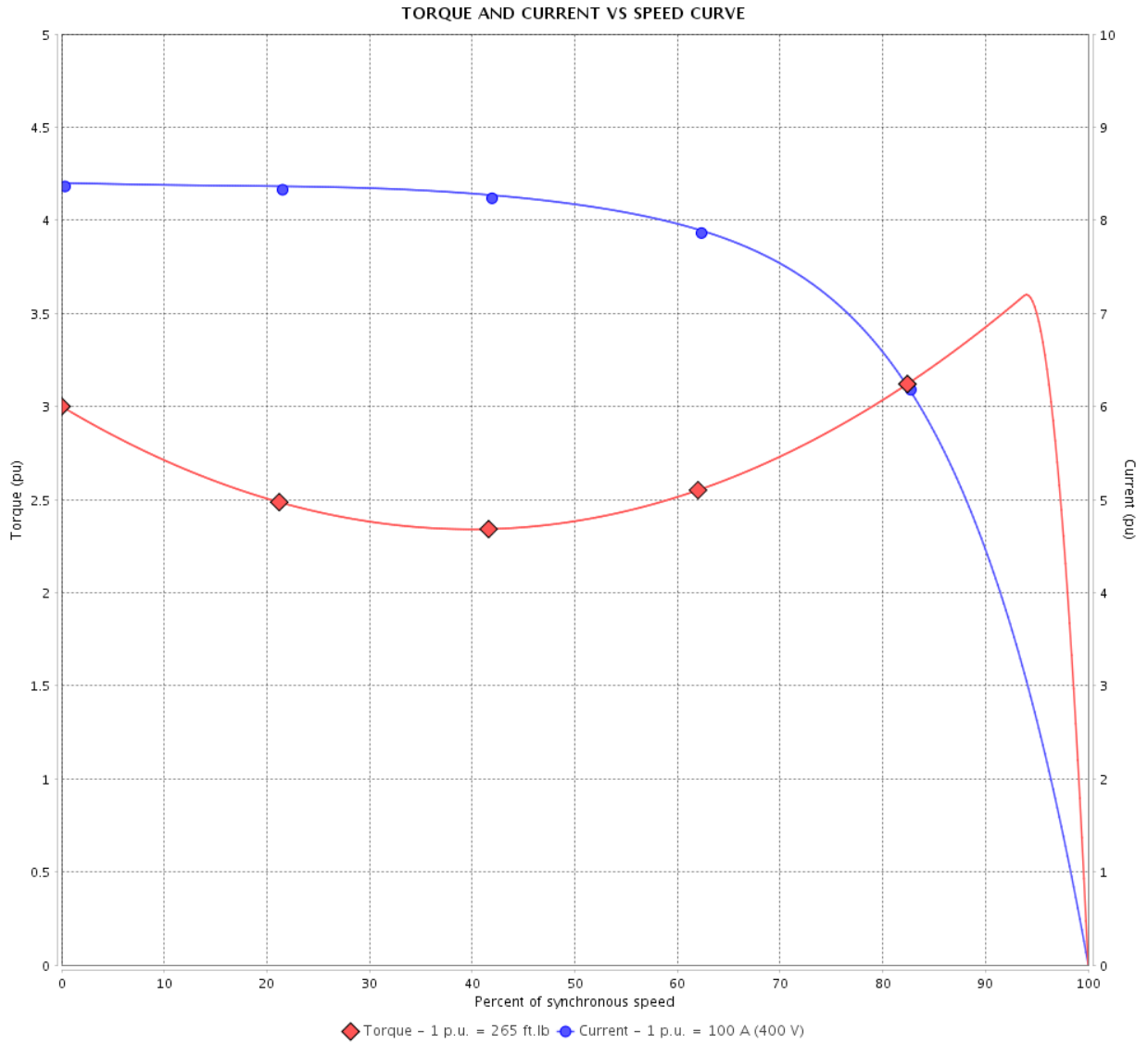
Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11485817

Catalog # : 10018XT3G405T



Performance : 400 V 50 Hz 4P IE2

| | | | |
|---------------------|-------------|-----------------------|-----------------|
| Rated current | : 100 A | Moment of inertia (J) | : 26.4 sq.ft.lb |
| LRC | : 8.4 | Duty cycle | : Cont.(S1) |
| Rated torque | : 265 ft.lb | Insulation class | : F |
| Locked rotor torque | : 300 % | Service factor | : 1.00 |
| Breakdown torque | : 360 % | Temperature rise | : 80 K |
| Rated speed | : 1485 rpm | Design | : B |

Locked rotor time : 21s (cold) 12s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



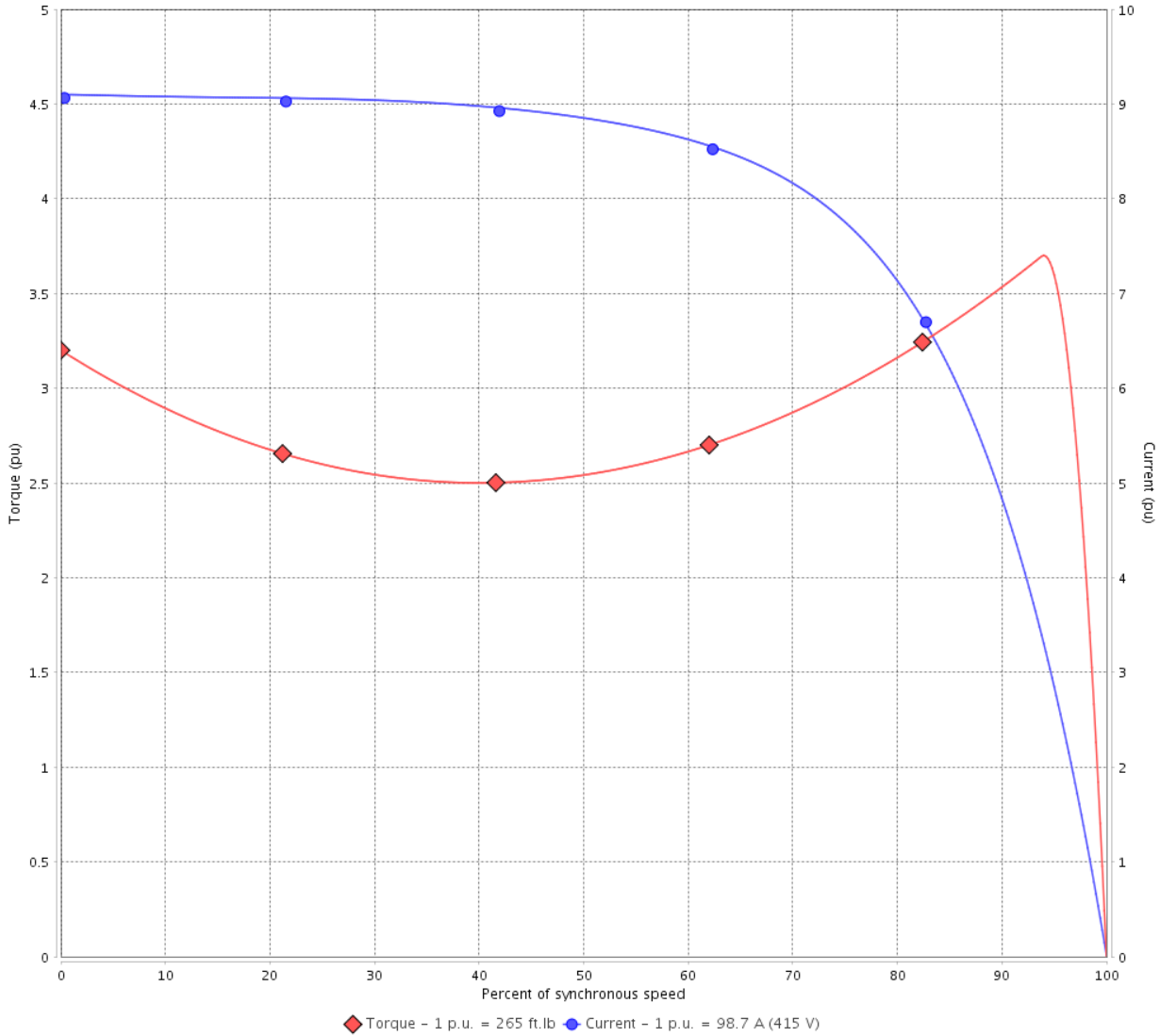
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TORQUE AND CURRENT VS SPEED CURVE



Performance : 415 V 50 Hz 4P IE2

| | | | |
|---------------------|-------------|-----------------------|-----------------|
| Rated current | : 98.7 A | Moment of inertia (J) | : 26.4 sq.ft.lb |
| LRC | : 9.1 | Duty cycle | : Cont.(S1) |
| Rated torque | : 265 ft.lb | Insulation class | : F |
| Locked rotor torque | : 320 % | Service factor | : 1.00 |
| Breakdown torque | : 370 % | Temperature rise | : 80 K |
| Rated speed | : 1485 rpm | Design | : B |

Locked rotor time : 21s (cold) 12s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

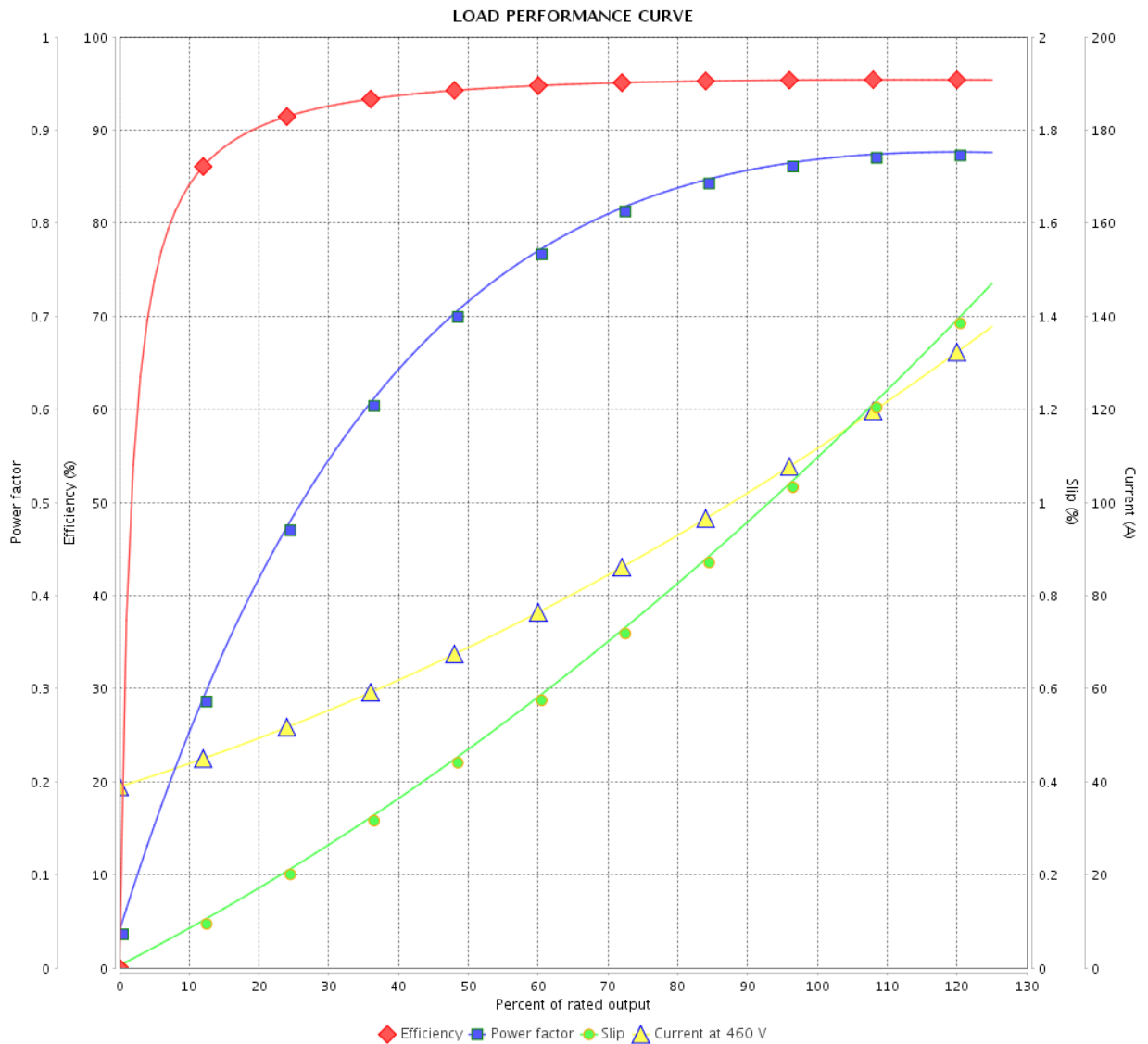


Customer : _____

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11485817

Catalog # : 10018XT3G405T



Performance : 460 V 60 Hz 4P

Rated current : 113 A
 LRC : 7.2
 Rated torque : 295 ft.lb
 Locked rotor torque : 270 %
 Breakdown torque : 280 %
 Rated speed : 1780 rpm

Moment of inertia (J) : 26.4 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



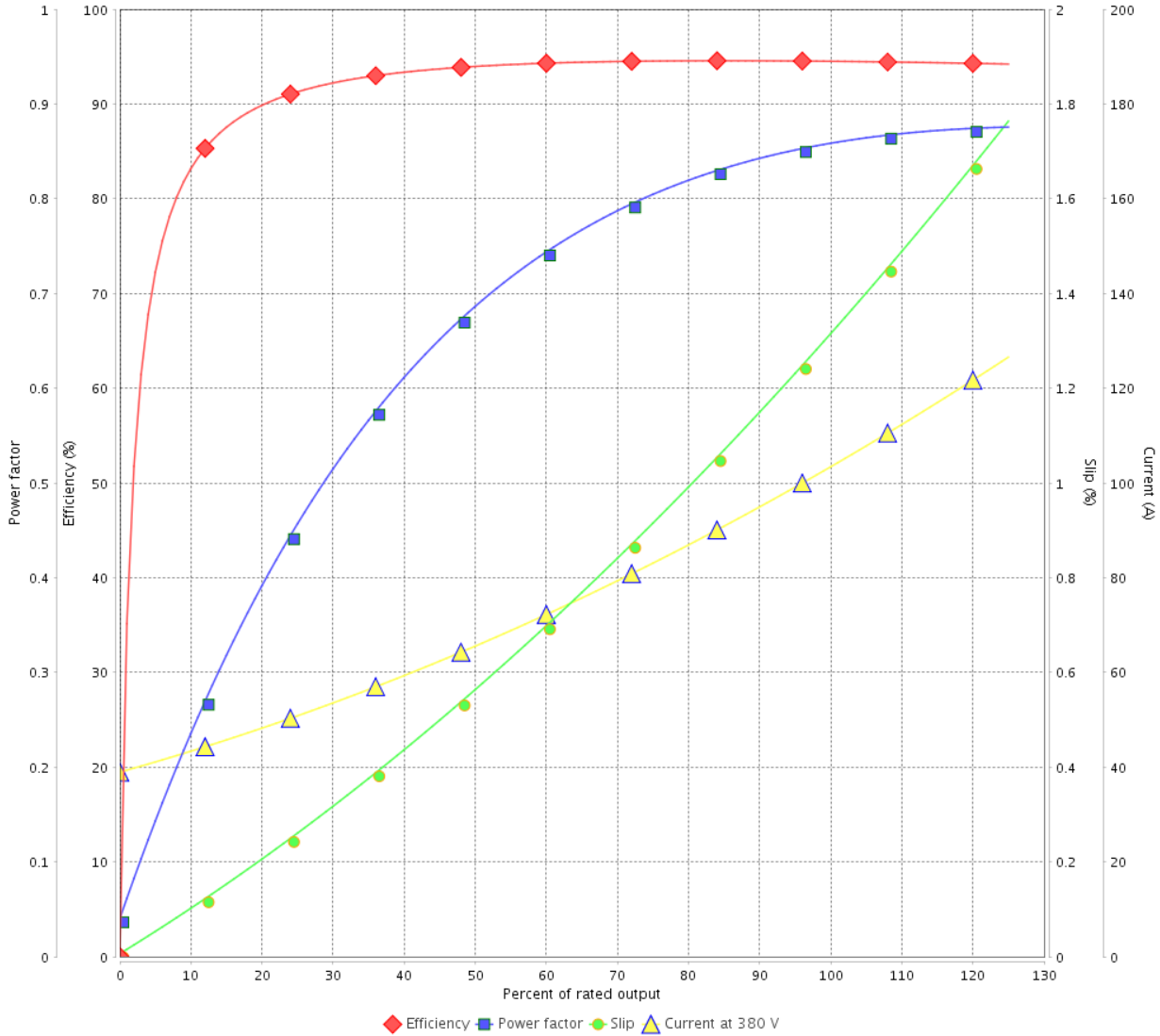
Customer : _____

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11485817

Catalog # : 10018XT3G405T

LOAD PERFORMANCE CURVE



Performance : 380 V 50 Hz 4P IE2

Rated current : 103 A
 LRC : 7.5
 Rated torque : 266 ft.lb
 Locked rotor torque : 270 %
 Breakdown torque : 310 %
 Rated speed : 1480 rpm

Moment of inertia (J) : 26.4 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

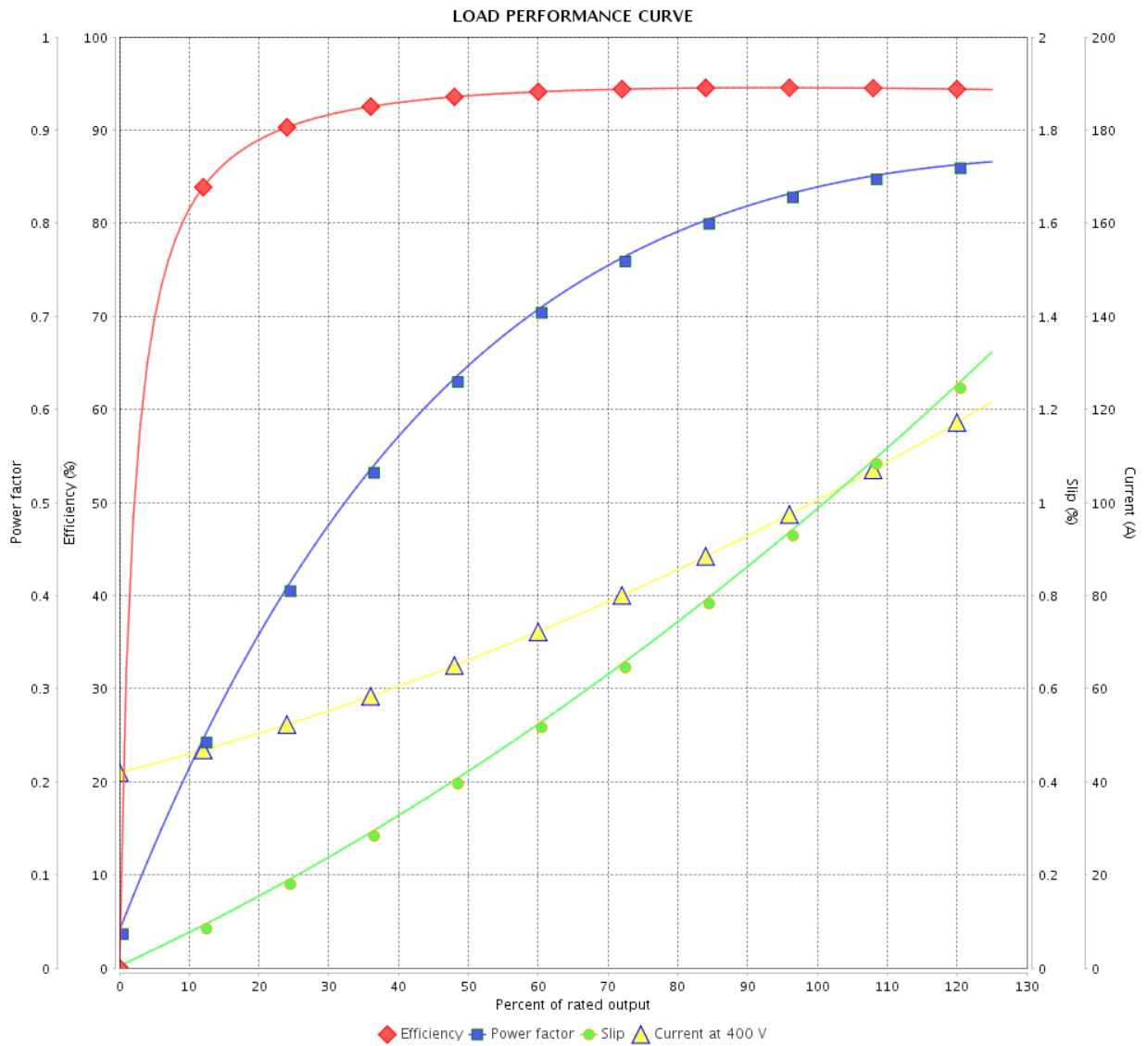


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Product code : 11485817

Catalog # : 10018XT3G405T



Performance : 400 V 50 Hz 4P IE2

Rated current : 100 A
 LRC : 8.4
 Rated torque : 265 ft.lb
 Locked rotor torque : 300 %
 Breakdown torque : 360 %
 Rated speed : 1485 rpm

Moment of inertia (J) : 26.4 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



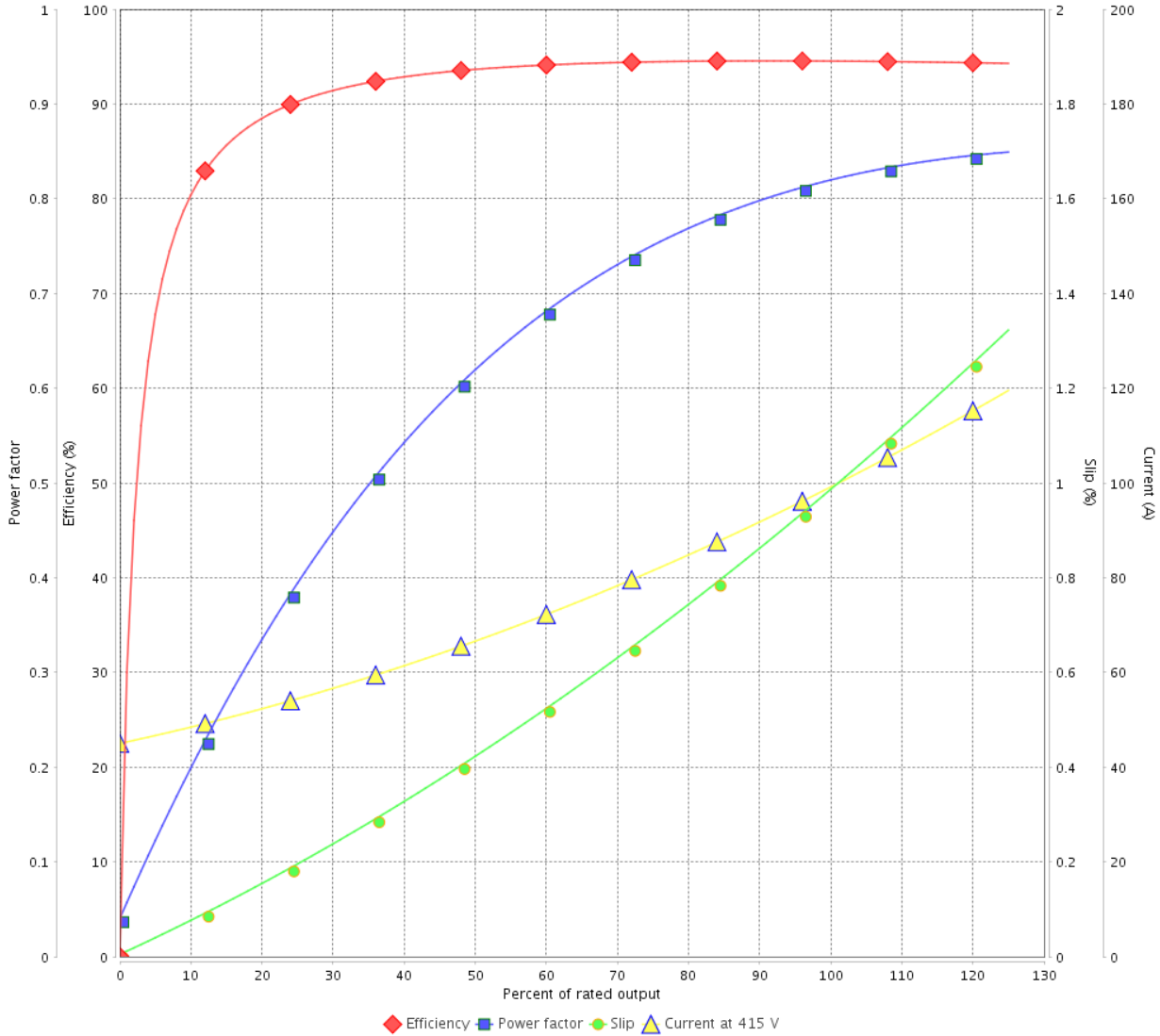
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LOAD PERFORMANCE CURVE



Performance : 415 V 50 Hz 4P IE2

Rated current : 98.7 A
 LRC : 9.1
 Rated torque : 265 ft.lb
 Locked rotor torque : 320 %
 Breakdown torque : 370 %
 Rated speed : 1485 rpm

Moment of inertia (J) : 26.4 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



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Catalog # : 10018XT3G405T

Performance : 460 V 60 Hz 4P

Rated current : 113 A
LRC : 7.2
Rated torque : 295 ft.lb
Locked rotor torque : 270 %
Breakdown torque : 280 %
Rated speed : 1780 rpm

Moment of inertia (J) : 26.4 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

Heating constant

Cooling constant

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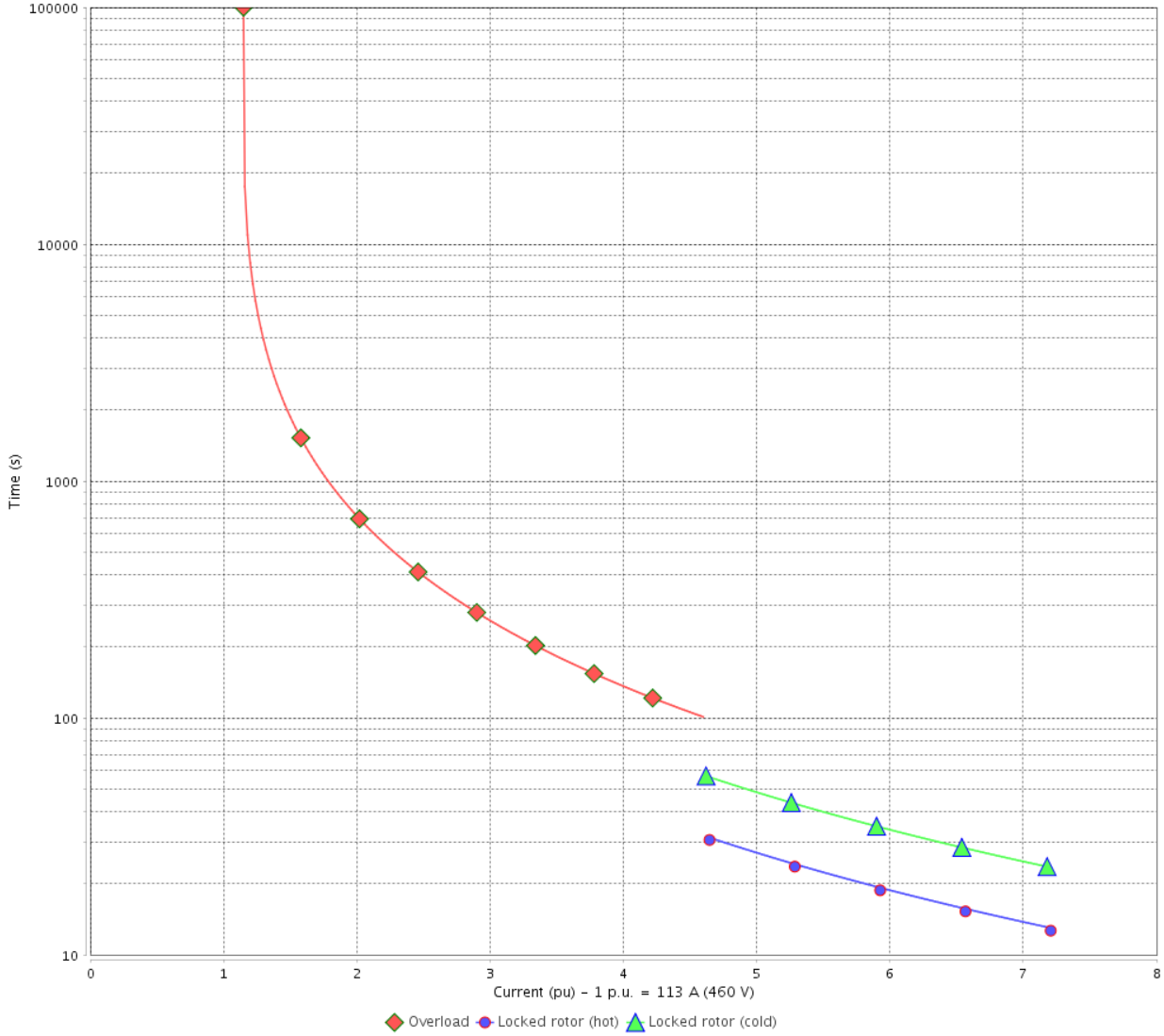
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THERMAL LIMIT CURVE



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Performance : 380 V 50 Hz 4P IE2

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| Rated current : 103 A | Moment of inertia (J) : 26.4 sq.ft.lb |
| LRC : 7.5 | Duty cycle : Cont.(S1) |
| Rated torque : 266 ft.lb | Insulation class : F |
| Locked rotor torque : 270 % | Service factor : 1.00 |
| Breakdown torque : 310 % | Temperature rise : 80 K |
| Rated speed : 1480 rpm | Design : B |

Heating constant

Cooling constant

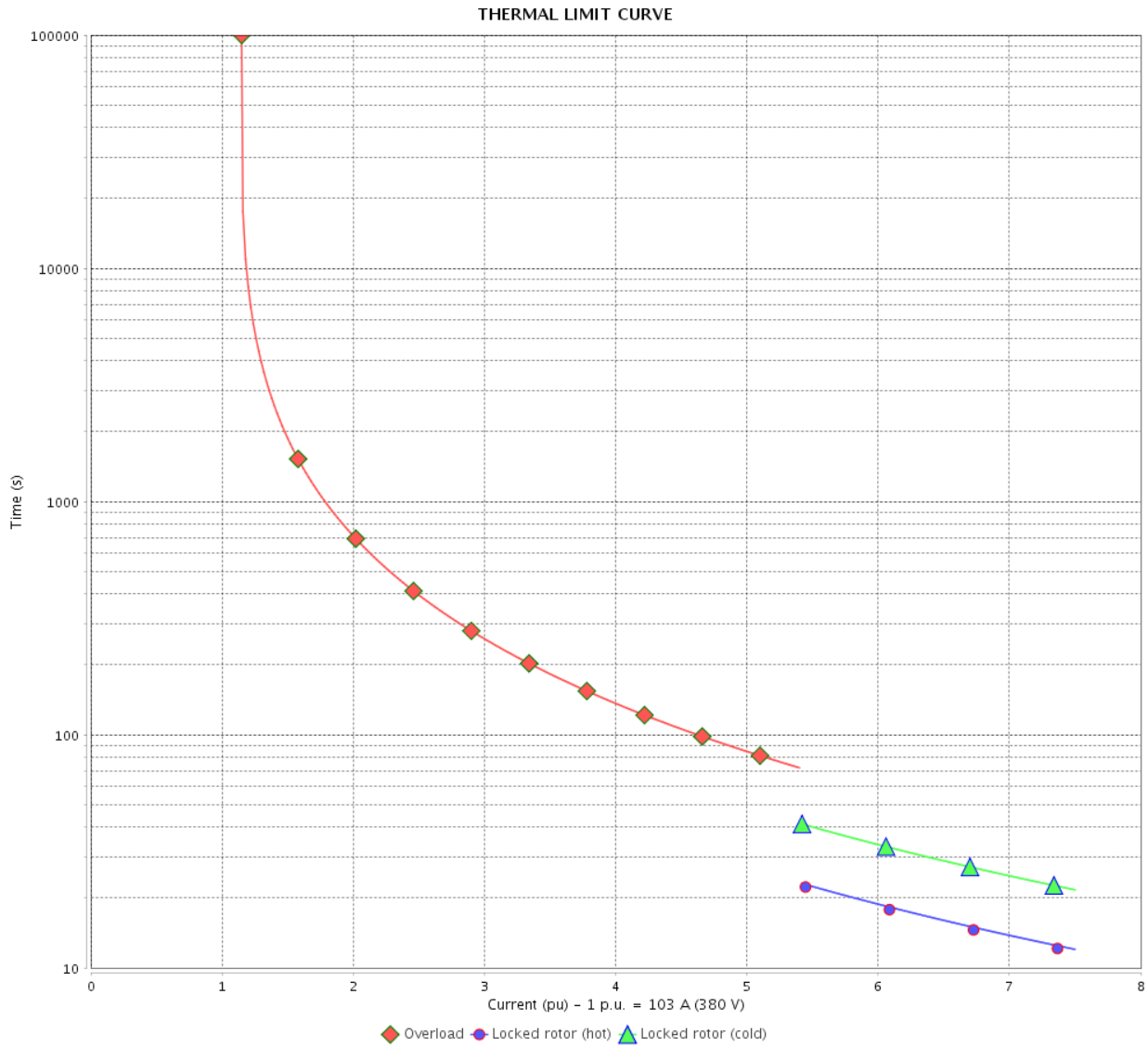
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Performance : 400 V 50 Hz 4P IE2

| | |
|-----------------------------|---------------------------------------|
| Rated current : 100 A | Moment of inertia (J) : 26.4 sq.ft.lb |
| LRC : 8.4 | Duty cycle : Cont.(S1) |
| Rated torque : 265 ft.lb | Insulation class : F |
| Locked rotor torque : 300 % | Service factor : 1.00 |
| Breakdown torque : 360 % | Temperature rise : 80 K |
| Rated speed : 1485 rpm | Design : B |

Heating constant

Cooling constant

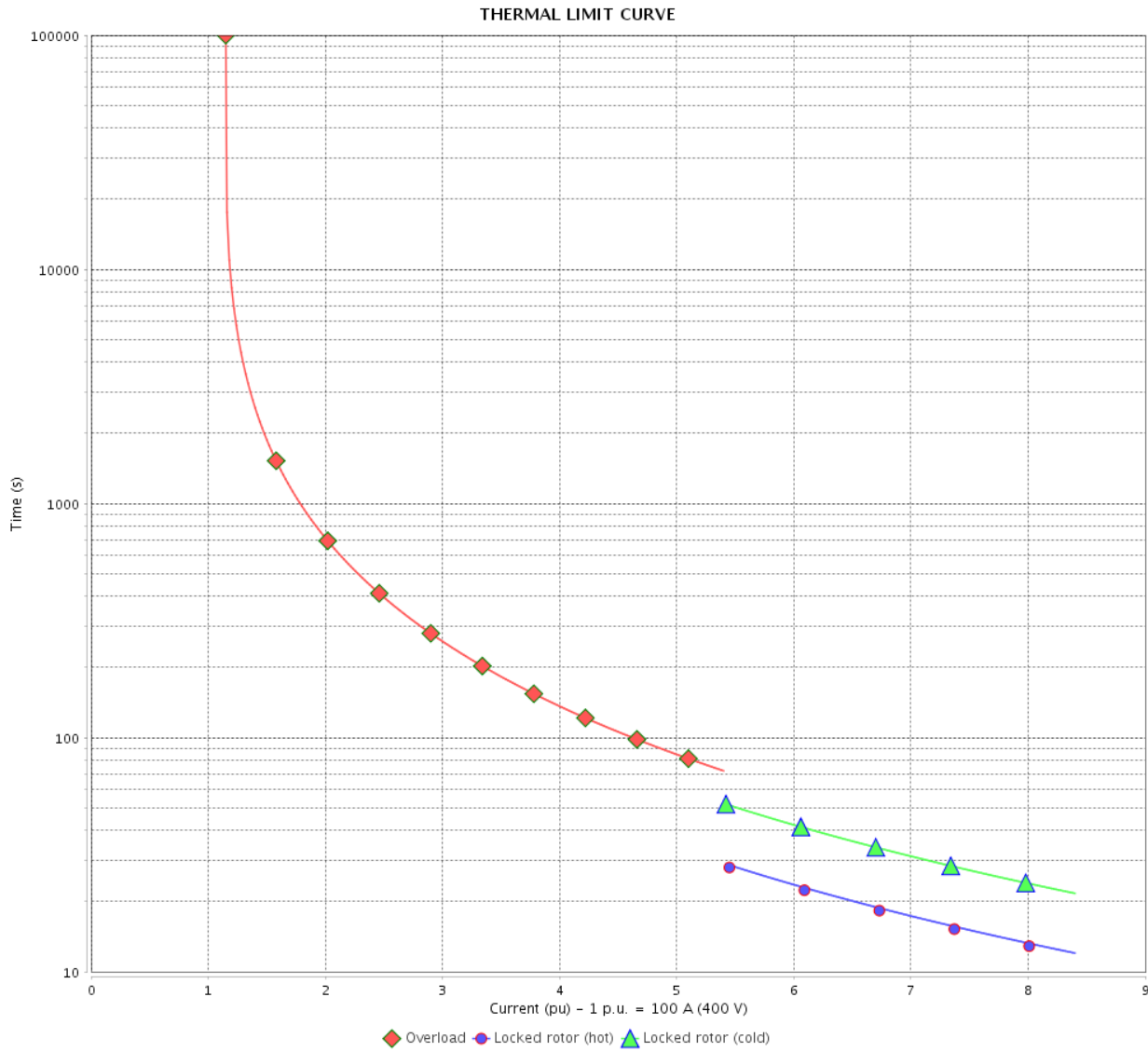
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THERMAL LIMIT CURVE



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Performance : 415 V 50 Hz 4P IE2

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| Rated current : 98.7 A | Moment of inertia (J) : 26.4 sq.ft.lb |
| LRC : 9.1 | Duty cycle : Cont.(S1) |
| Rated torque : 265 ft.lb | Insulation class : F |
| Locked rotor torque : 320 % | Service factor : 1.00 |
| Breakdown torque : 370 % | Temperature rise : 80 K |
| Rated speed : 1485 rpm | Design : B |

Heating constant

Cooling constant

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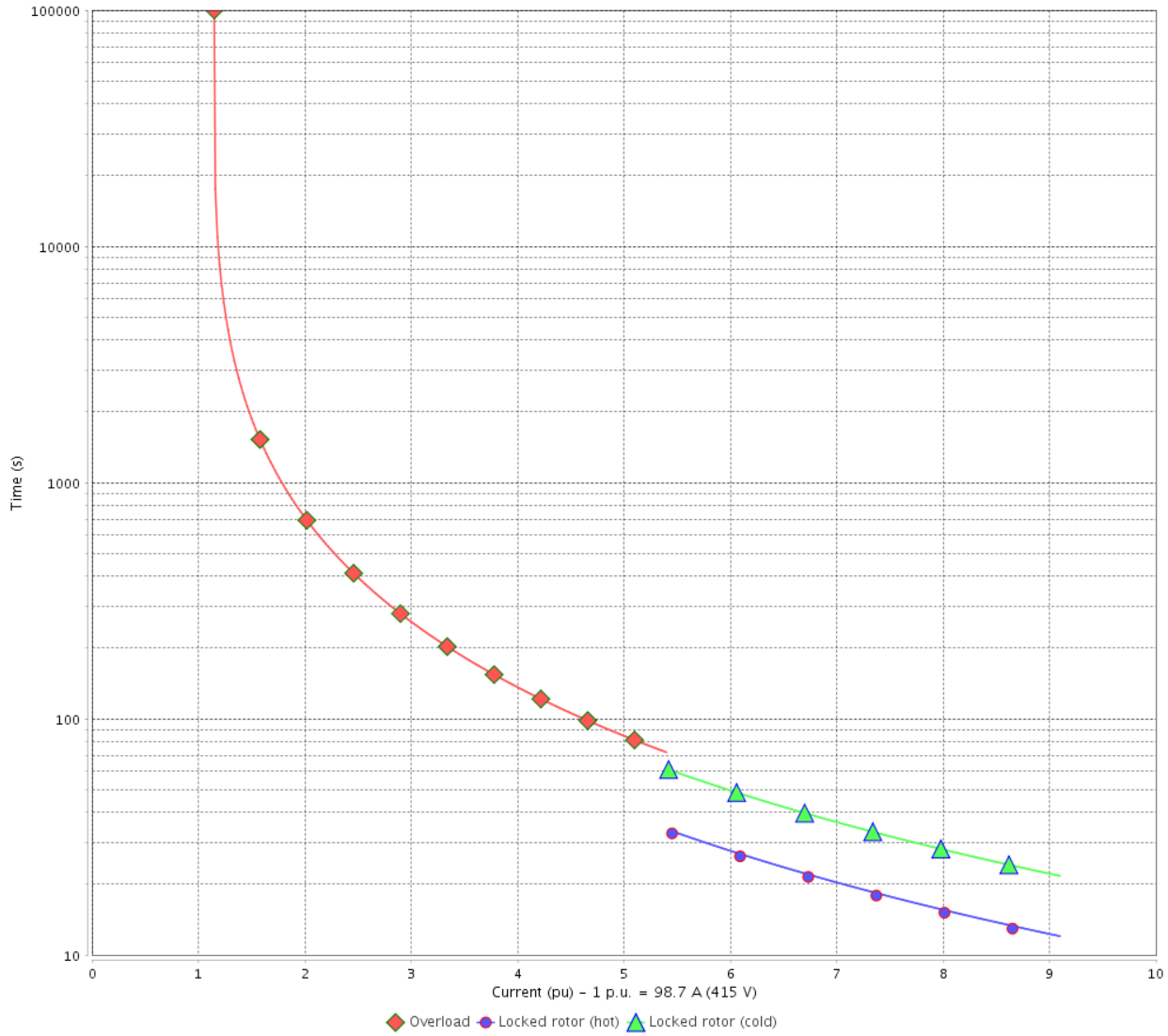
THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____

THERMAL LIMIT CURVE



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

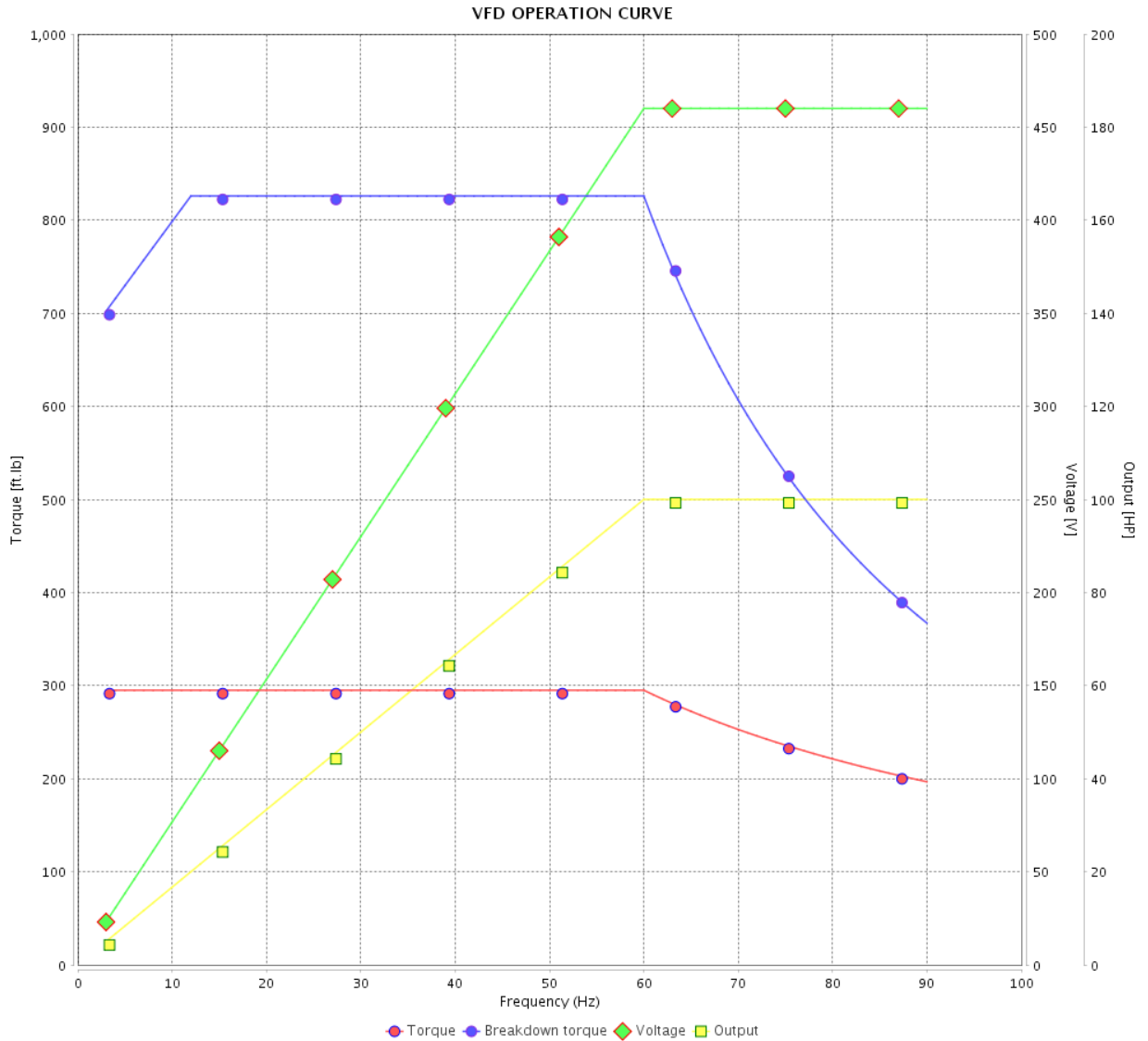


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 11485817

Catalog # : 10018XT3G405T



Performance : 460 V 60 Hz 4P

Rated current : 113 A
 LRC : 7.2
 Rated torque : 295 ft.lb
 Locked rotor torque : 270 %
 Breakdown torque : 280 %
 Rated speed : 1780 rpm

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 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



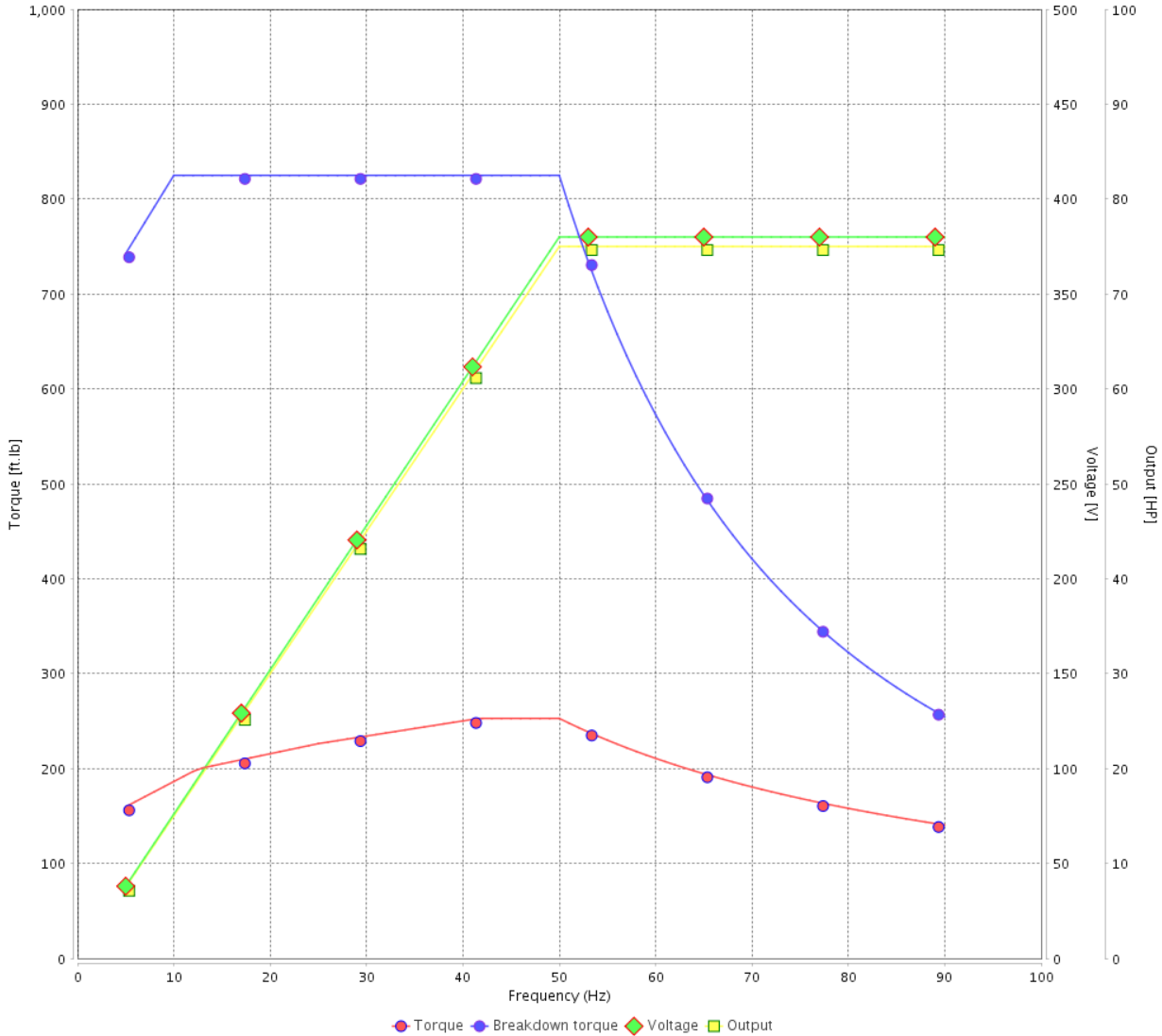
Customer : _____

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VFD OPERATION CURVE



Performance : 380 V 50 Hz 4P IE2

Rated current : 103 A
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 Locked rotor torque : 270 %
 Breakdown torque : 310 %
 Rated speed : 1480 rpm

Moment of inertia (J) : 26.4 sq.ft.lb
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 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

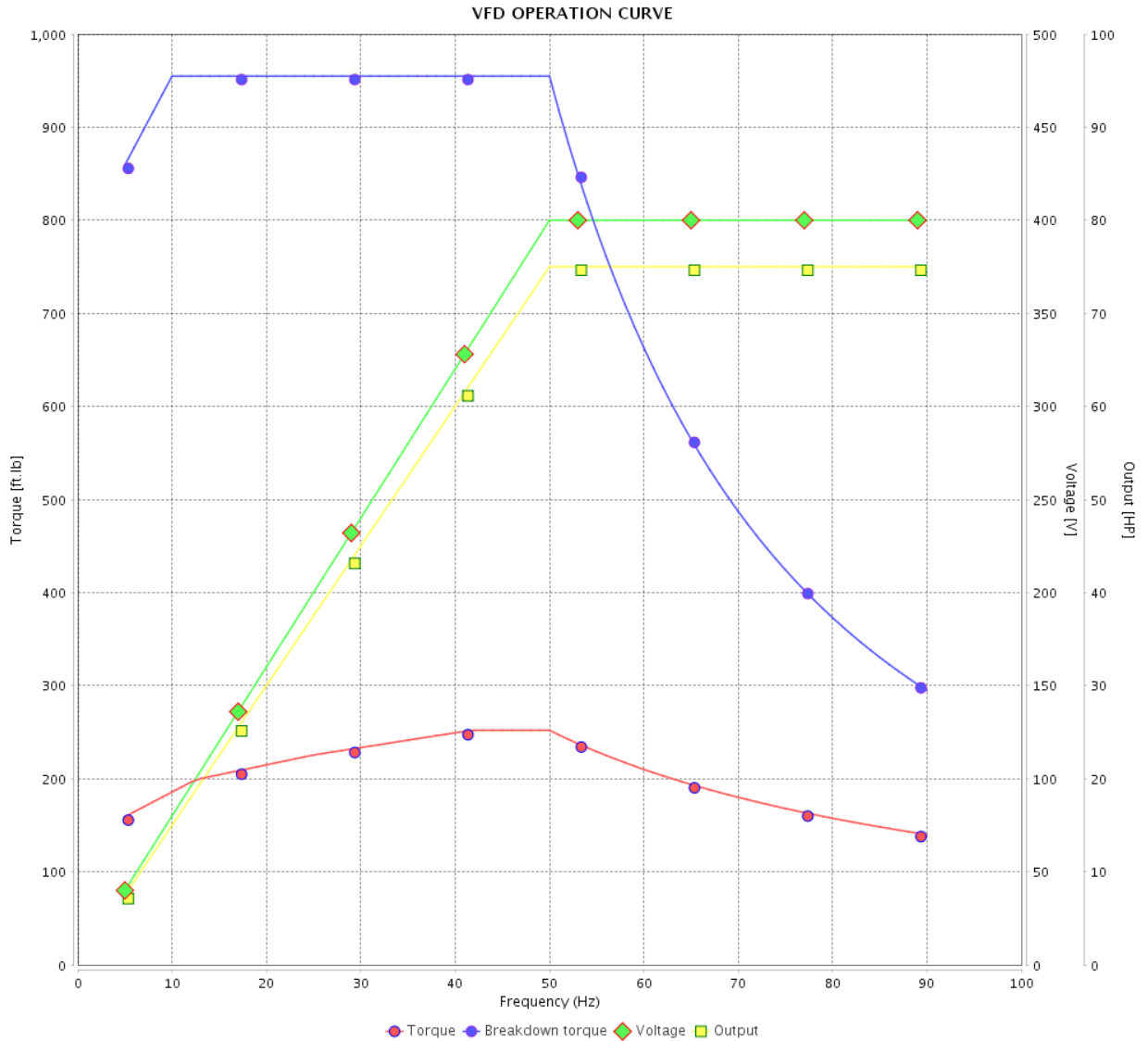


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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

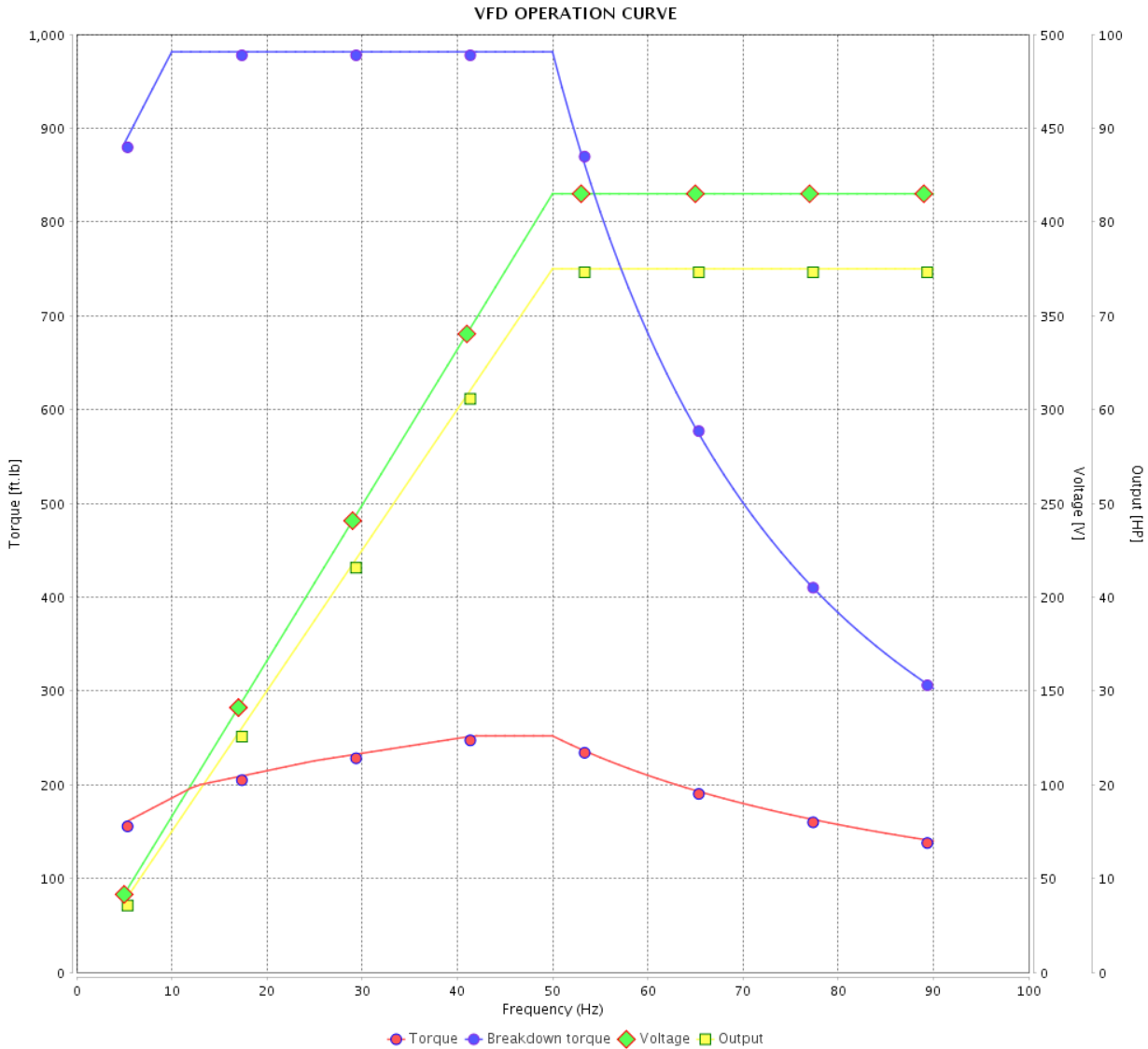


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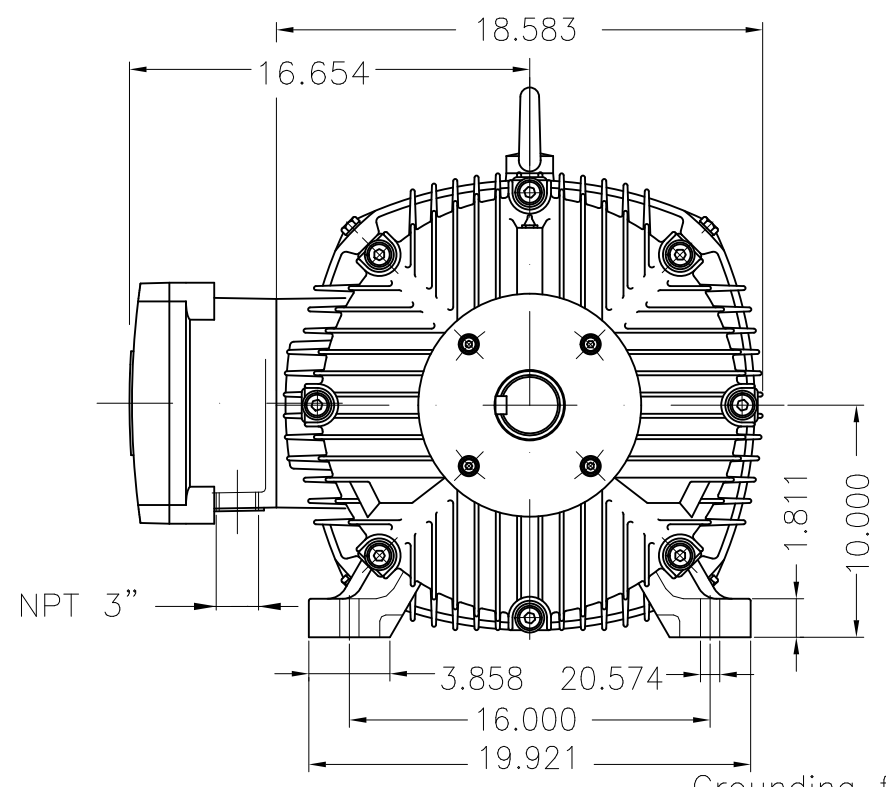


Performance : 415 V 50 Hz 4P IE2

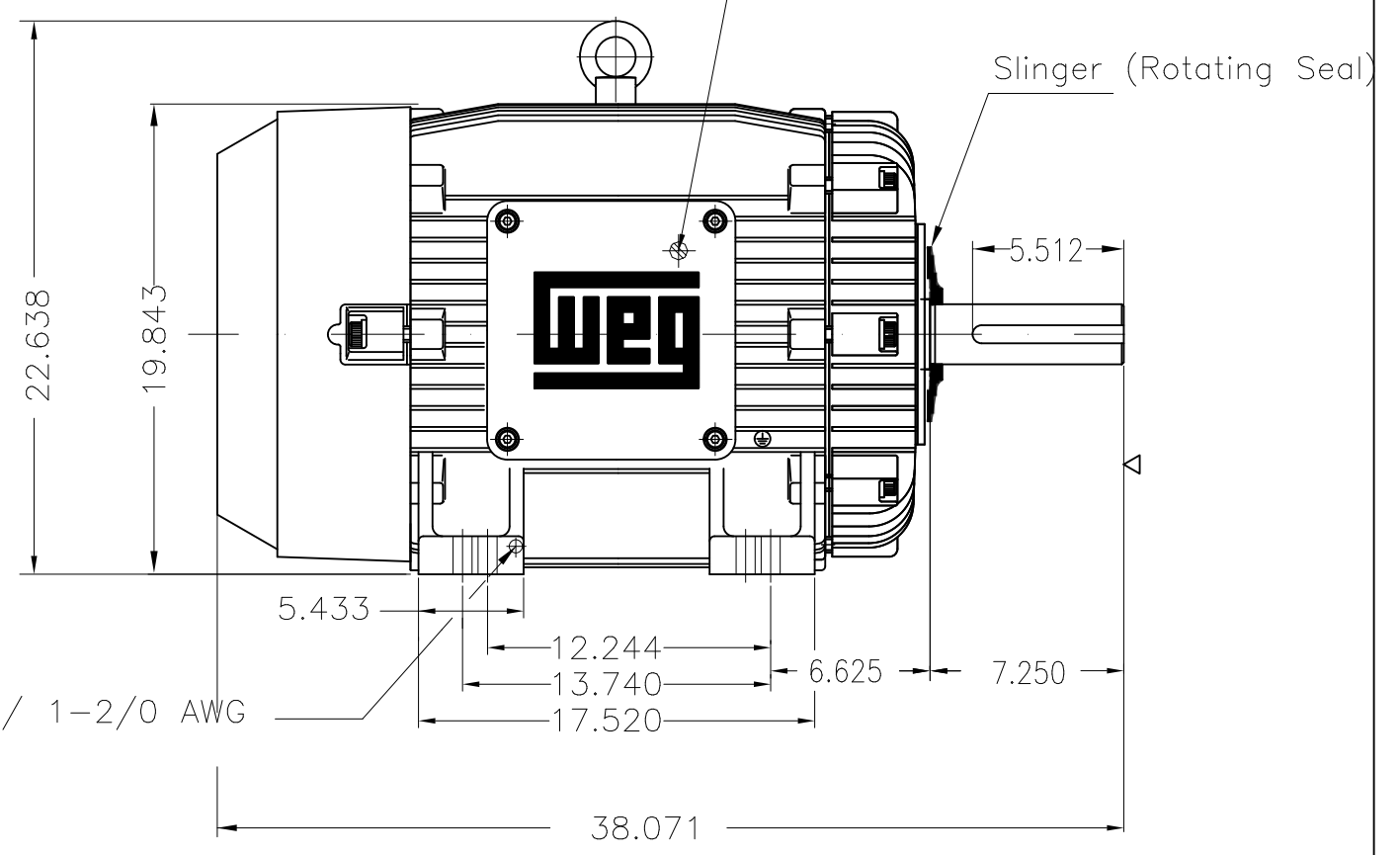
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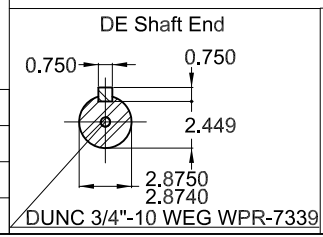


Grounding for leads 25–50 mm² / 3–1 AWG



Grounding for leads 35–70 mm² / 1–2/0 AWG

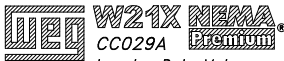
Color RAL 5009
 Painting plan 202P
 Mounting NEMA F-1
 Mounting B3R(D)



100 HP 04 Poles 60 Hz A

| ECM | LOC | SUMMARY OF MODIFICATIONS | EXECUTED | CHECKED | RELEASED | DATE | VER |
|----------|-----------|--|---------------------|---------|----------|------|-----|
| EXECUTED | PIRWBUSER | THREE PH. MOTOR EXPLOSION PROOF PREM. EFF. | | | | | |
| CHECKED | | FRAME 404/5T IP55 TEFC | | | | | |
| RELEASED | | | | | | | |
| REL DT. | WMO | Jaragua do Sul | Product Engineering | | | | |

PREVIEW
 WDD
 SHEET 1 / 1



W21X NEMA
CC029A Premium
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 10018XT3G405T
 MADE IN BRAZIL
 11485817

| | | | |
|----------------------|---|--------------------------|--------|
| PH 3 | FR 404/5T | HP(kW) 100(75) | Hz 60 |
| V 460 | A 113 | RPM 1780 | |
| NEMA NOM. EFF. 95.4% | | INS CL F Δ T 80 K | IP55 |
| PF 0.87 | DUTY CONT. | | CODE H |
| ENCL. TEFC | SF 1.15 | SFA 130 | |
| 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 |

| | | |
|---|----------------|------------------|
|  | → 6217-C3(21g) | MOBIL POLYREX EM |
| | → 6314-C3(27g) | 9149 h |

| | | | |
|----------|---------|------|-----|
| ALT 1000 | m.a.s.l | 1197 | Lbs |
|----------|---------|------|-----|