

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



| | | | | | |
|--|---|-----------------------------|--|----------------------|----------|
| Customer : | | | | | |
| Product line | : NEMA Premium Efficiency Three-Phase | Product code : | 12408388 | | |
| | | Catalog # : | 50018XT3G586/7 | | |
| Frame | : 586/7T | 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 | : 4761 lb | | |
| Protection degree | : IP55 | Moment of inertia (J) | : 256 sq.ft.lb | | |
| Design | : B | | | | |
| Output [HP] | 500 | 400 | 400 | 400 | |
| Poles | 4 | 4 | 4 | 4 | |
| Frequency [Hz] | 60 | 50 | 50 | 50 | |
| Rated voltage [V] | 460 | 380 | 400 | 415 | |
| Rated current [A] | 568 | 560 | 530 | 516 | |
| L. R. Amperes [A] | 3578 | 3360 | 3551 | 3767 | |
| LRC [A] | 6.3x(Code G) | 6.0x(Code F) | 6.7x(Code G) | 7.3x(Code H) | |
| No load current [A] | 140 | 138 | 149 | 155 | |
| Rated speed [RPM] | 1790 | 1490 | 1490 | 1490 | |
| Slip [%] | 0.56 | 0.67 | 0.67 | 0.67 | |
| Rated torque [ft.lb] | 1470 | 1410 | 1410 | 1410 | |
| Locked rotor torque [%] | 210 | 200 | 220 | 229 | |
| Breakdown torque [%] | 229 | 229 | 250 | 260 | |
| Service factor | 1.00 | 1.00 | 1.00 | 1.00 | |
| Temperature rise | 105 K | 105 K | 105 K | 105 K | |
| Locked rotor time | 45s (cold) 25s (hot) | 39s (cold) 22s (hot) | 39s (cold) 22s (hot) | 39s (cold) 22s (hot) | |
| Noise level ² | 83.0 dB(A) | 79.0 dB(A) | 79.0 dB(A) | 79.0 dB(A) | |
| Efficiency (%) | 25% | 95.7 | 96.1 | 95.7 | 95.3 |
| | 50% | 95.8 | 95.8 | 95.8 | 95.4 |
| | 75% | 96.2 | 96.2 | 96.2 | 96.2 |
| | 100% | 96.2 | 95.8 | 96.2 | 96.2 |
| Power Factor | 25% | 0.58 | 0.58 | 0.54 | 0.51 |
| | 50% | 0.81 | 0.81 | 0.78 | 0.76 |
| | 75% | 0.84 | 0.84 | 0.83 | 0.81 |
| | 100% | 0.85 | 0.85 | 0.85 | 0.84 |
| Bearing type | : <u>Drive end</u> 6322 C3 <u>Non drive end</u> 6319 C3 | Foundation loads | | | |
| Sealing | : Viton Oil Seal Viton Seal | Max. traction | : 5267 lb | | |
| | | Max. compression | : 10028 lb | | |
| Lubrication interval | : 5138 h 7038 h | | | | |
| Lubricant amount | : 60 g 45 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



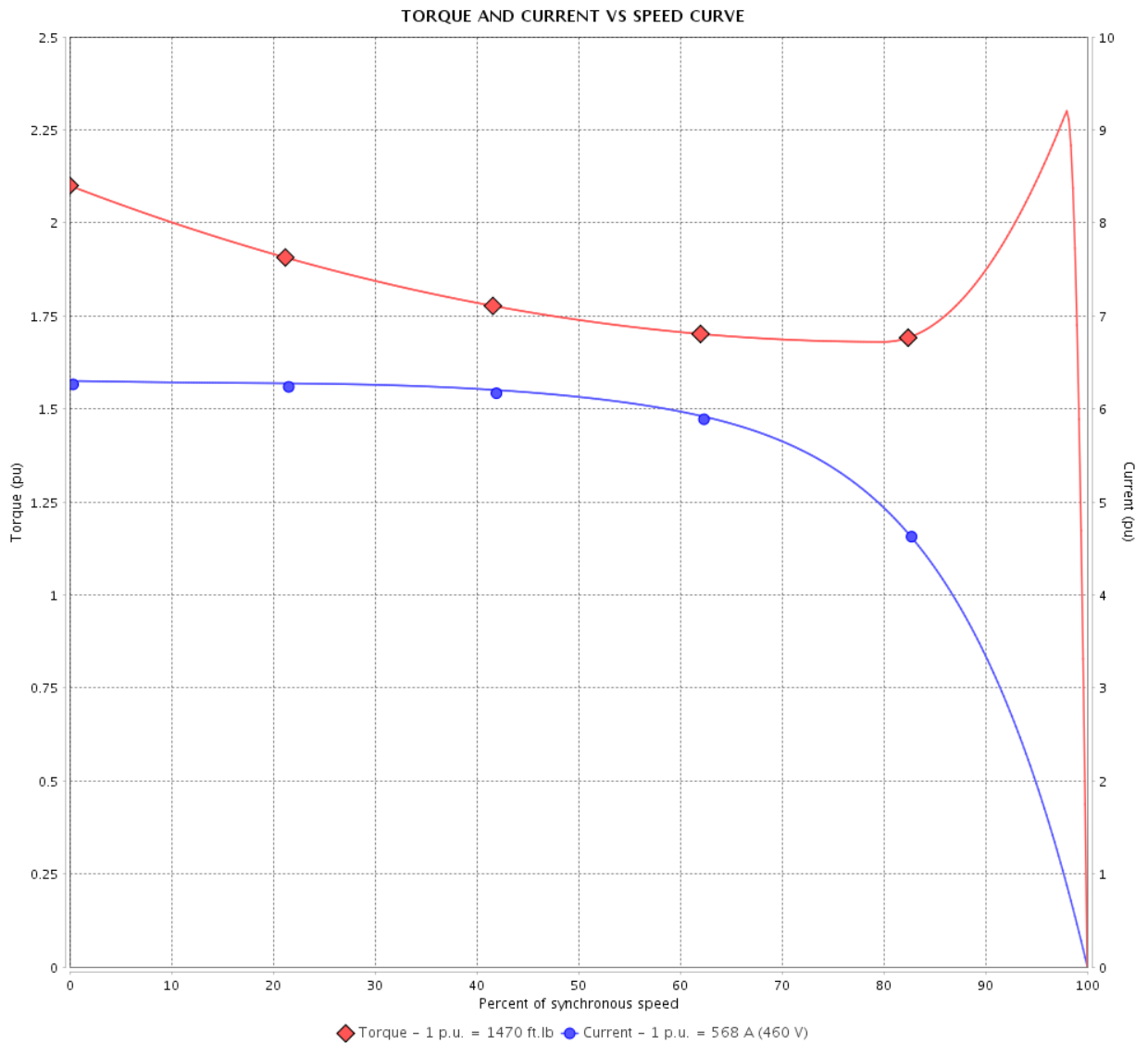
Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12408388

Catalog # : 50018XT3G586/7



Performance : 460 V 60 Hz 4P

| | | | |
|---------------------|--------------|-----------------------|----------------|
| Rated current | : 568 A | Moment of inertia (J) | : 256 sq.ft.lb |
| LRC | : 6.3 | Duty cycle | : Cont.(S1) |
| Rated torque | : 1470 ft.lb | Insulation class | : F |
| Locked rotor torque | : 210 % | Service factor | : 1.00 |
| Breakdown torque | : 229 % | Temperature rise | : 105 K |
| Rated speed | : 1790 rpm | Design | : B |

Locked rotor time : 45s (cold) 25s (hot)

| Rev. | Changes Summary | Performed | Checked | Date |
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| Date | 12/04/2022 | | | |

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



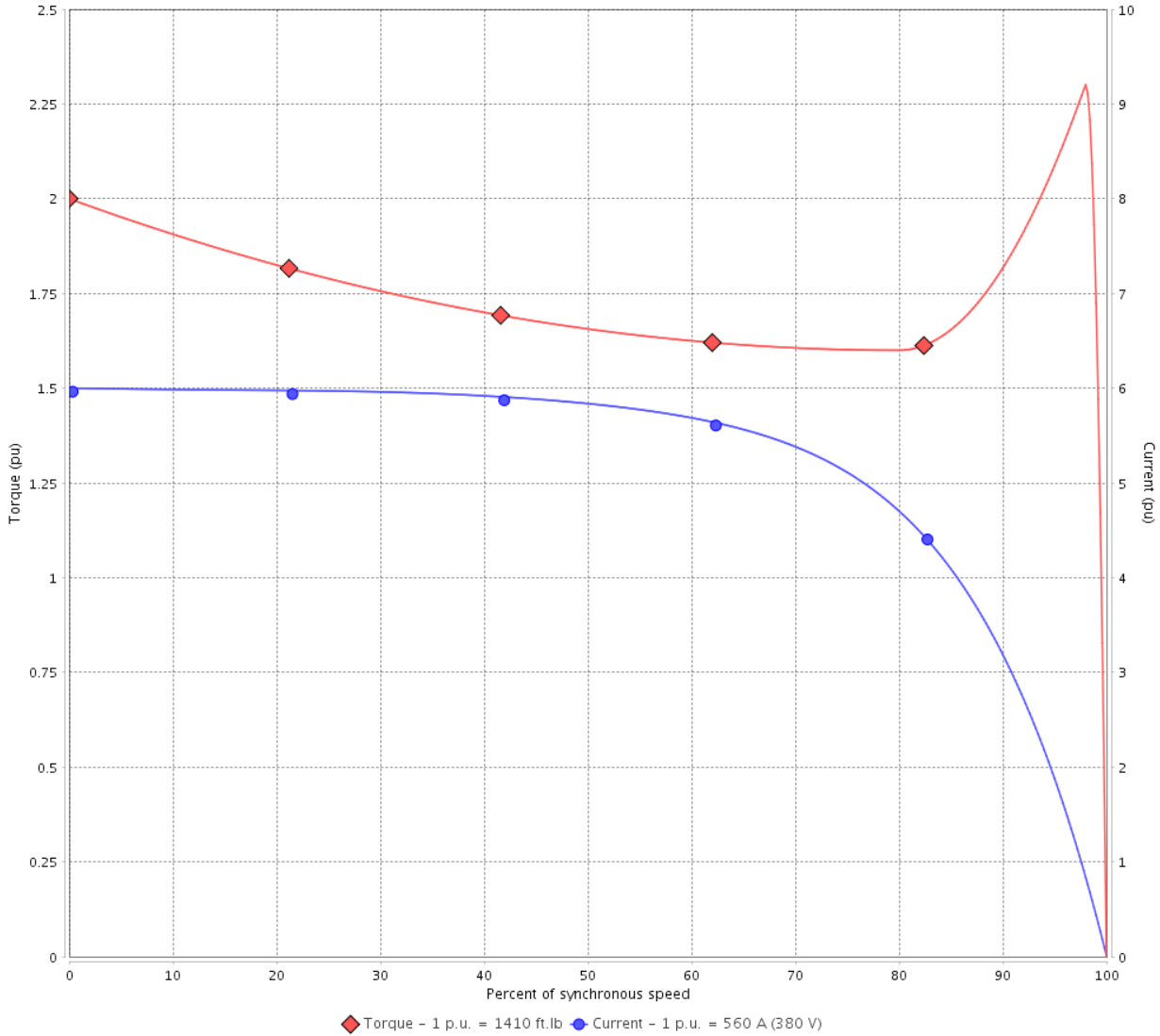
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12408388

Catalog # : 50018XT3G586/7

TORQUE AND CURRENT VS SPEED CURVE



Performance : 380 V 50 Hz 4P IE2

| | | | |
|---------------------|--------------|-----------------------|----------------|
| Rated current | : 560 A | Moment of inertia (J) | : 256 sq.ft.lb |
| LRC | : 6.0 | Duty cycle | : Cont.(S1) |
| Rated torque | : 1410 ft.lb | Insulation class | : F |
| Locked rotor torque | : 200 % | Service factor | : 1.00 |
| Breakdown torque | : 229 % | Temperature rise | : 105 K |
| Rated speed | : 1490 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



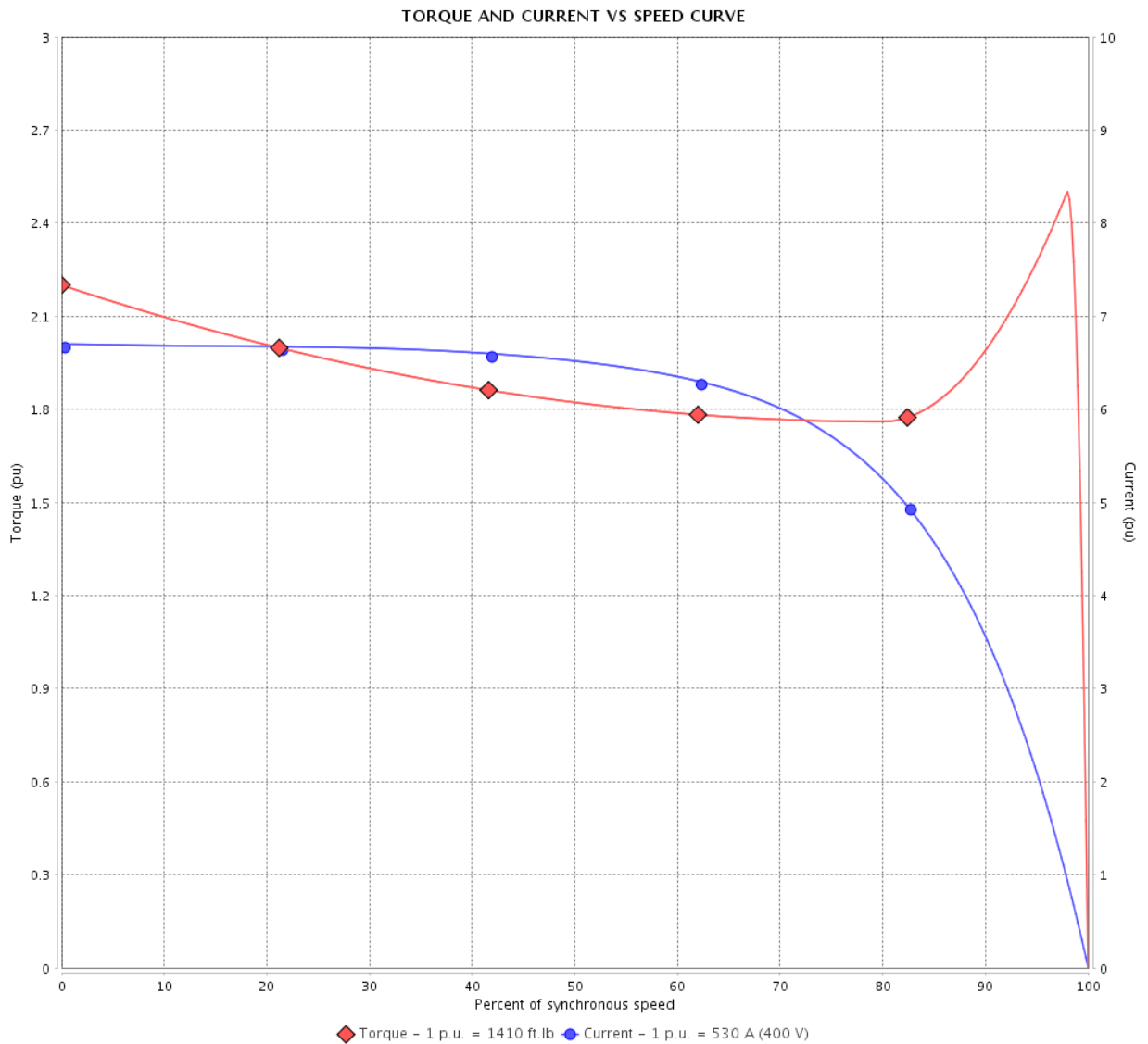
Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12408388

Catalog # : 50018XT3G586/7



Performance : 400 V 50 Hz 4P IE3

| | | | |
|---------------------|--------------|-----------------------|----------------|
| Rated current | : 530 A | Moment of inertia (J) | : 256 sq.ft.lb |
| LRC | : 6.7 | Duty cycle | : Cont.(S1) |
| Rated torque | : 1410 ft.lb | Insulation class | : F |
| Locked rotor torque | : 220 % | Service factor | : 1.00 |
| Breakdown torque | : 250 % | Temperature rise | : 105 K |
| Rated speed | : 1490 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



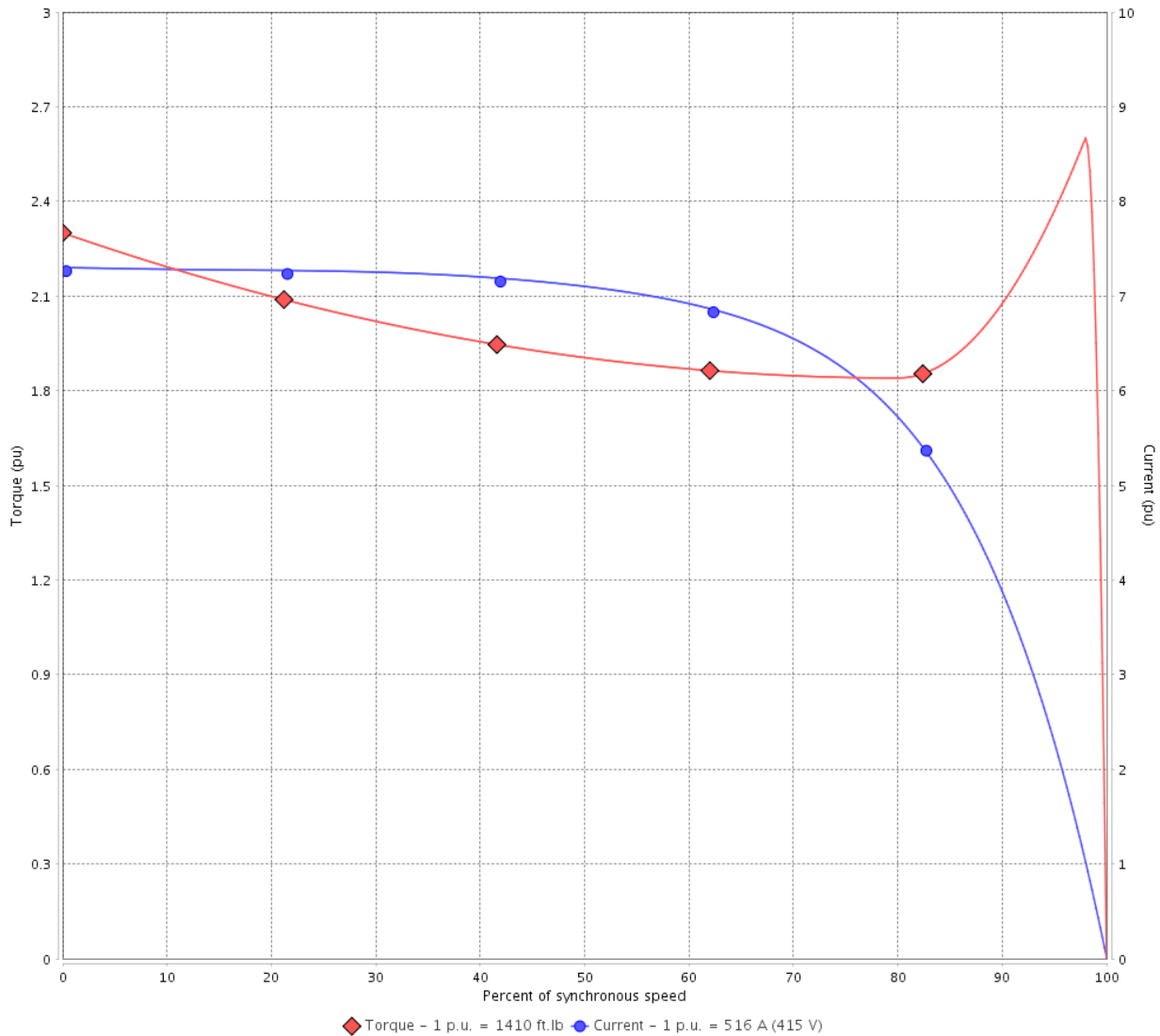
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12408388

Catalog # : 50018XT3G586/7

TORQUE AND CURRENT VS SPEED CURVE



Performance : 415 V 50 Hz 4P IE3

| | | | |
|---------------------|--------------|-----------------------|----------------|
| Rated current | : 516 A | Moment of inertia (J) | : 256 sq.ft.lb |
| LRC | : 7.3 | Duty cycle | : Cont.(S1) |
| Rated torque | : 1410 ft.lb | Insulation class | : F |
| Locked rotor torque | : 229 % | Service factor | : 1.00 |
| Breakdown torque | : 260 % | Temperature rise | : 105 K |
| Rated speed | : 1490 rpm | Design | : B |

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

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

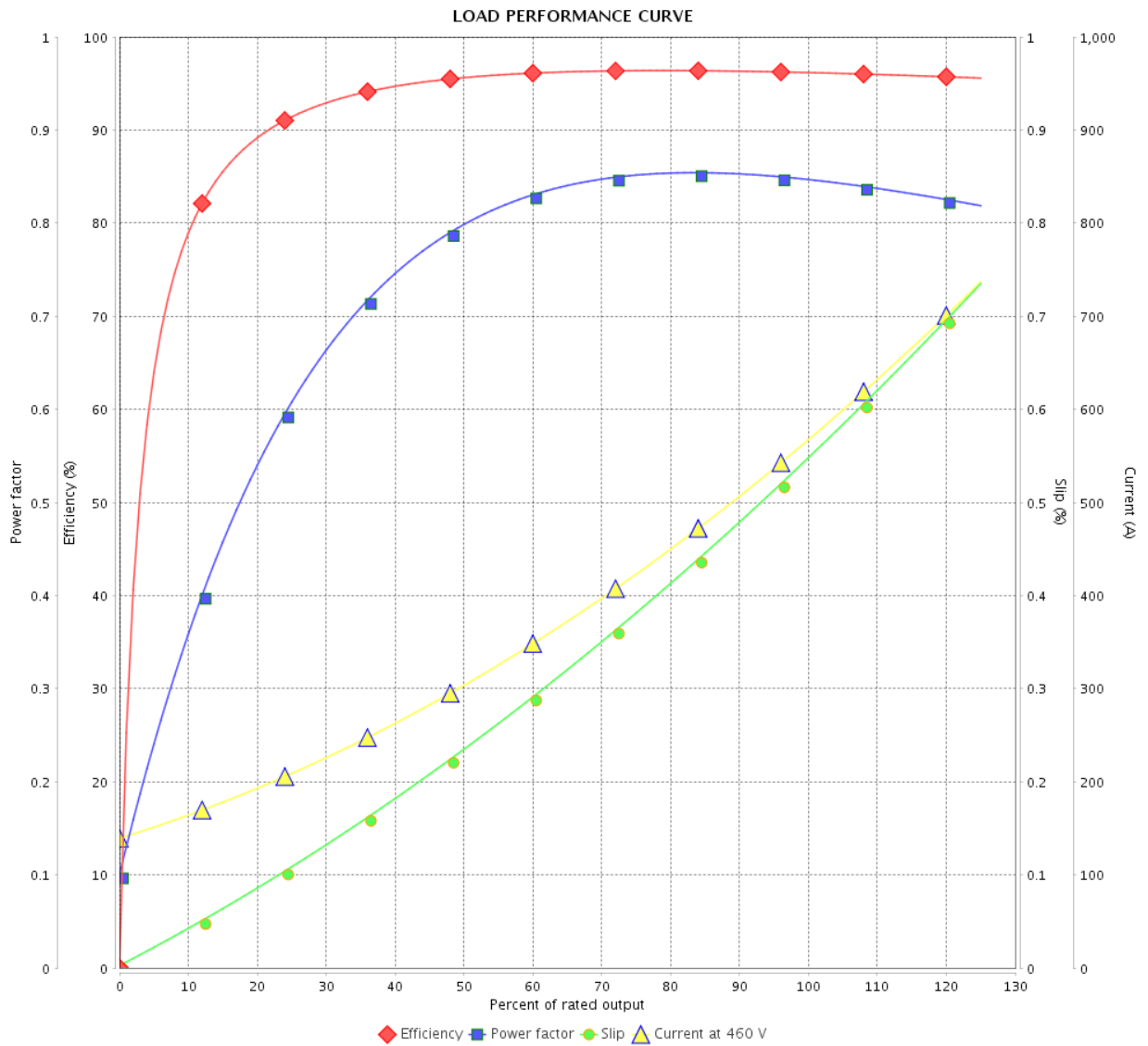


Customer : _____

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12408388

Catalog # : 50018XT3G586/7



Performance : 460 V 60 Hz 4P

Rated current : 568 A
 LRC : 6.3
 Rated torque : 1470 ft.lb
 Locked rotor torque : 210 %
 Breakdown torque : 229 %
 Rated speed : 1790 rpm

Moment of inertia (J) : 256 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : B

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

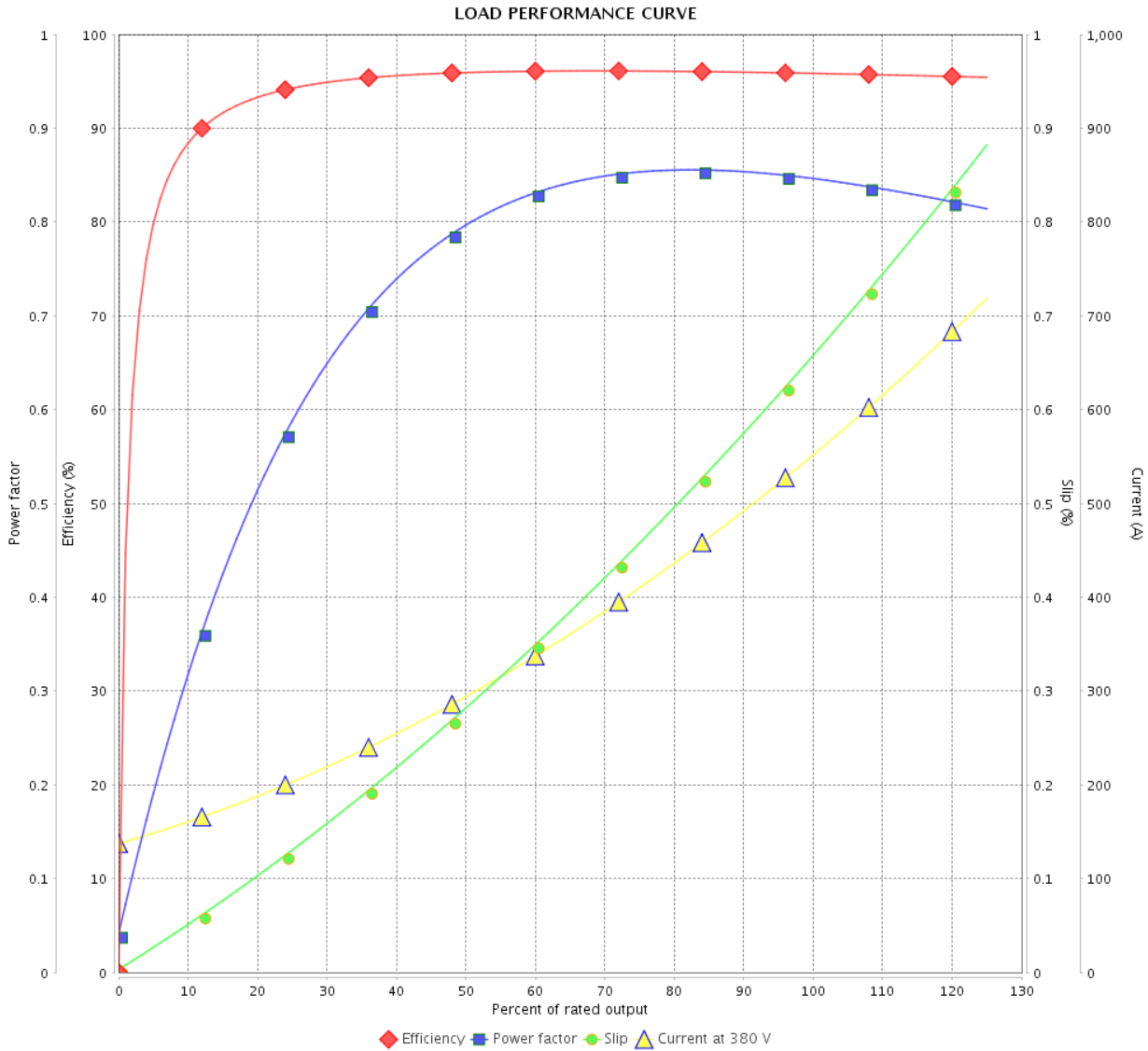


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12408388

Catalog # : 50018XT3G586/7



Performance : 380 V 50 Hz 4P IE2

| | | | |
|---------------------|--------------|-----------------------|----------------|
| Rated current | : 560 A | Moment of inertia (J) | : 256 sq.ft.lb |
| LRC | : 6.0 | Duty cycle | : Cont.(S1) |
| Rated torque | : 1410 ft.lb | Insulation class | : F |
| Locked rotor torque | : 200 % | Service factor | : 1.00 |
| Breakdown torque | : 229 % | Temperature rise | : 105 K |
| Rated speed | : 1490 rpm | Design | : B |

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

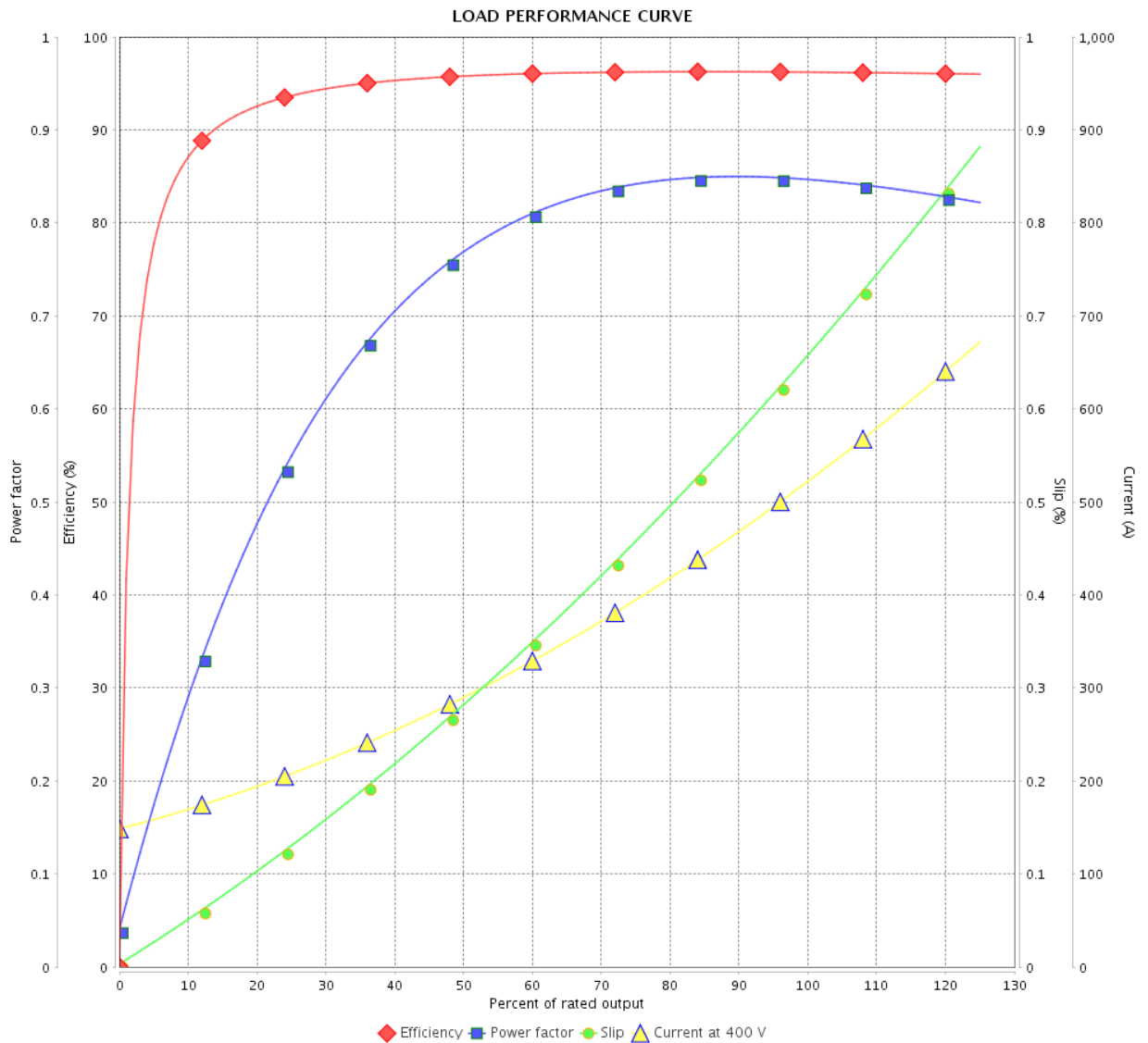


Customer : _____

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12408388

Catalog # : 50018XT3G586/7



Performance : 400 V 50 Hz 4P IE3

Rated current : 530 A
 LRC : 6.7
 Rated torque : 1410 ft.lb
 Locked rotor torque : 220 %
 Breakdown torque : 250 %
 Rated speed : 1490 rpm

Moment of inertia (J) : 256 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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LOAD PERFORMANCE CURVE

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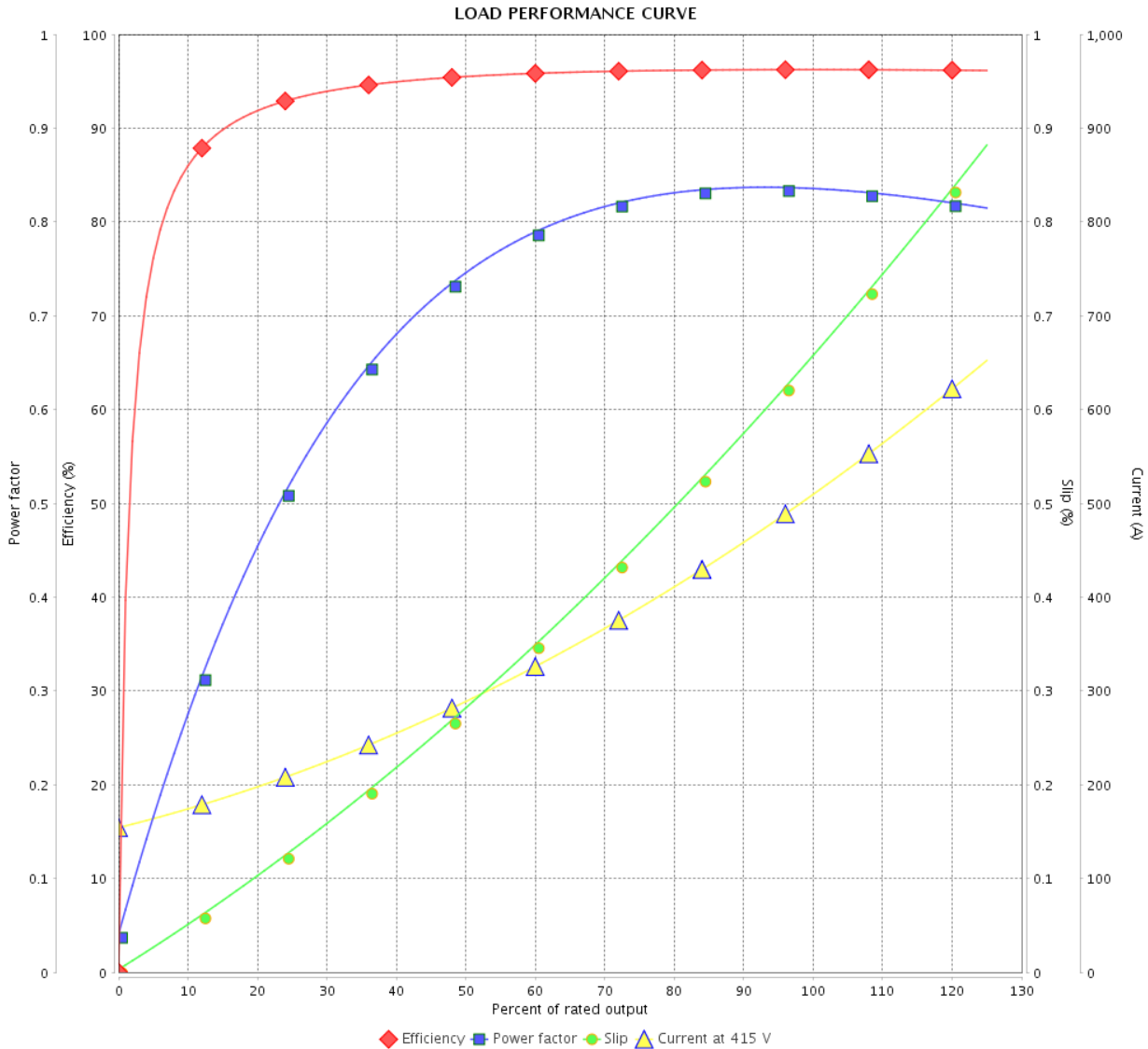


Customer : _____

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12408388

Catalog # : 50018XT3G586/7



Performance : 415 V 50 Hz 4P IE3

| | | | |
|---------------------|--------------|-----------------------|----------------|
| Rated current | : 516 A | Moment of inertia (J) | : 256 sq.ft.lb |
| LRC | : 7.3 | Duty cycle | : Cont.(S1) |
| Rated torque | : 1410 ft.lb | Insulation class | : F |
| Locked rotor torque | : 229 % | Service factor | : 1.00 |
| Breakdown torque | : 260 % | Temperature rise | : 105 K |
| Rated speed | : 1490 rpm | 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 : 12408388
 Catalog # : 50018XT3G586/7

Performance : 460 V 60 Hz 4P

| | |
|-----------------------------|--------------------------------------|
| Rated current : 568 A | Moment of inertia (J) : 256 sq.ft.lb |
| LRC : 6.3 | Duty cycle : Cont.(S1) |
| Rated torque : 1470 ft.lb | Insulation class : F |
| Locked rotor torque : 210 % | Service factor : 1.00 |
| Breakdown torque : 229 % | Temperature rise : 105 K |
| Rated speed : 1790 rpm | Design : B |

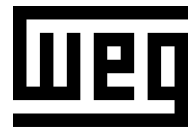
Heating constant

Cooling constant

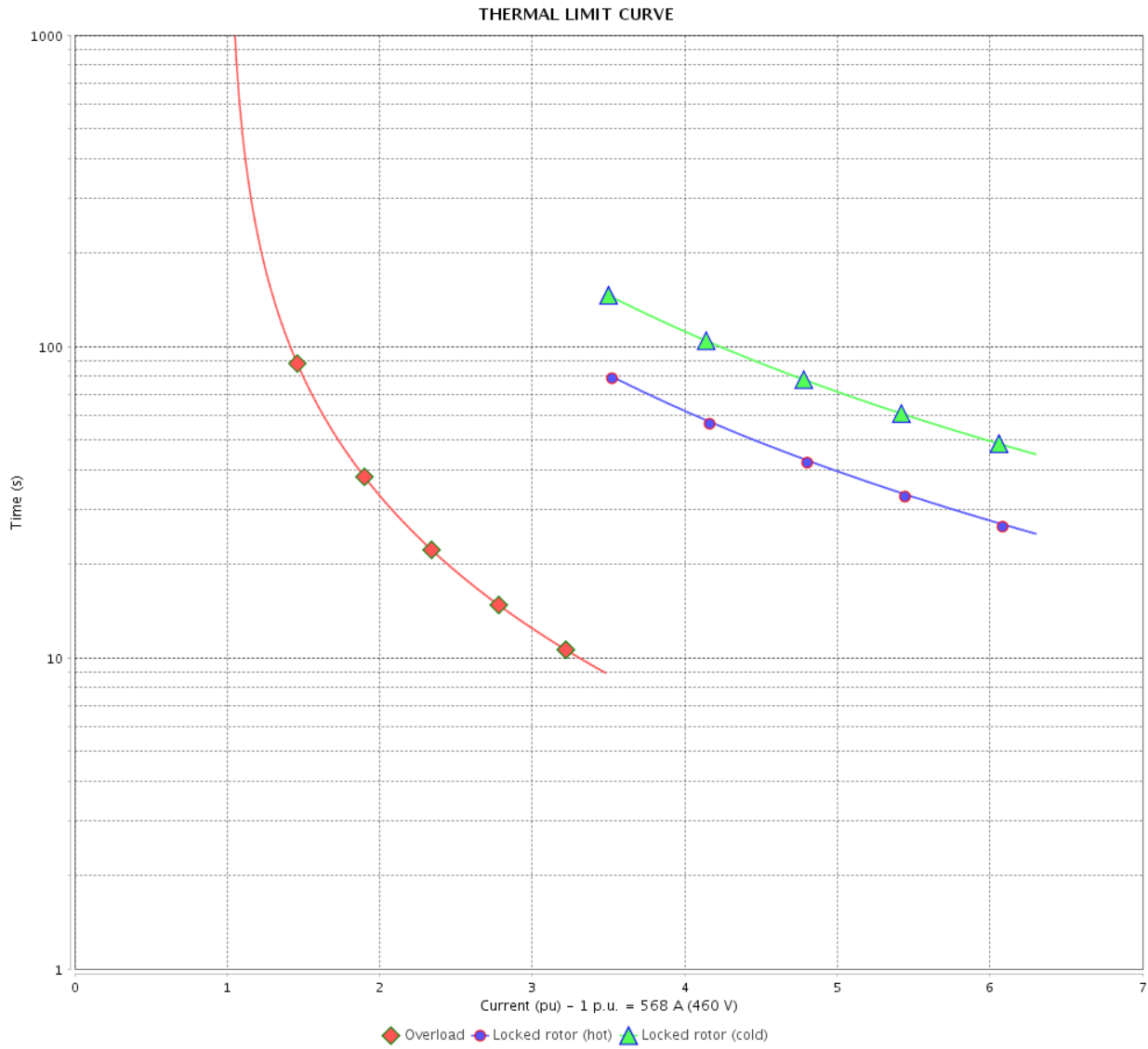
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



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THERMAL LIMIT CURVE



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase
 Product code : 12408388
 Catalog # : 50018XT3G586/7

Performance : 380 V 50 Hz 4P IE2

| | |
|-----------------------------|--------------------------------------|
| Rated current : 560 A | Moment of inertia (J) : 256 sq.ft.lb |
| LRC : 6.0 | Duty cycle : Cont.(S1) |
| Rated torque : 1410 ft.lb | Insulation class : F |
| Locked rotor torque : 200 % | Service factor : 1.00 |
| Breakdown torque : 229 % | Temperature rise : 105 K |
| Rated speed : 1490 rpm | Design : B |

Heating constant

Cooling constant

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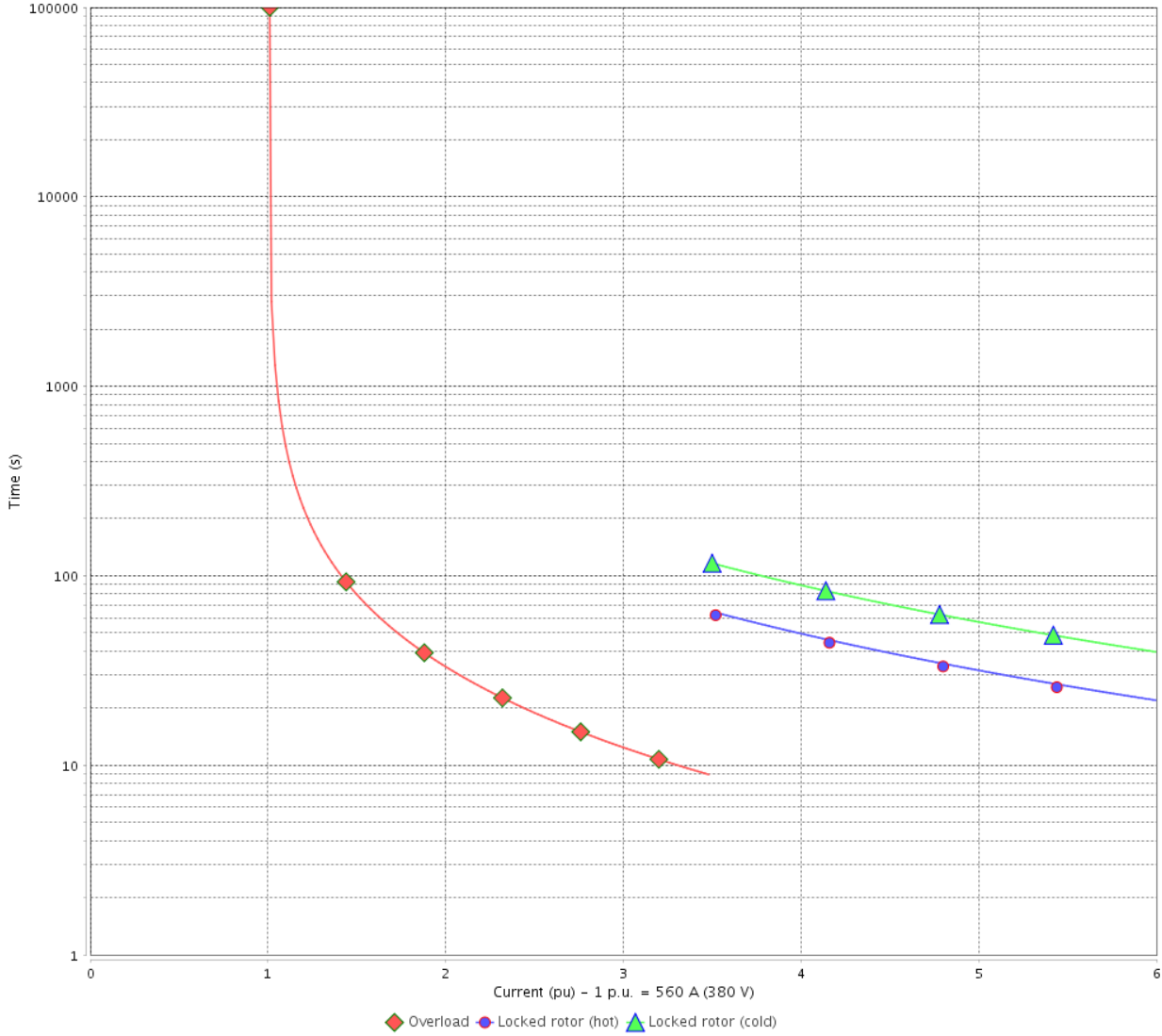
THERMAL LIMIT CURVE

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 : 12408388
 Catalog # : 50018XT3G586/7

Performance : 400 V 50 Hz 4P IE3

| | |
|-----------------------------|--------------------------------------|
| Rated current : 530 A | Moment of inertia (J) : 256 sq.ft.lb |
| LRC : 6.7 | Duty cycle : Cont.(S1) |
| Rated torque : 1410 ft.lb | Insulation class : F |
| Locked rotor torque : 220 % | Service factor : 1.00 |
| Breakdown torque : 250 % | Temperature rise : 105 K |
| Rated speed : 1490 rpm | Design : B |

Heating constant

Cooling constant

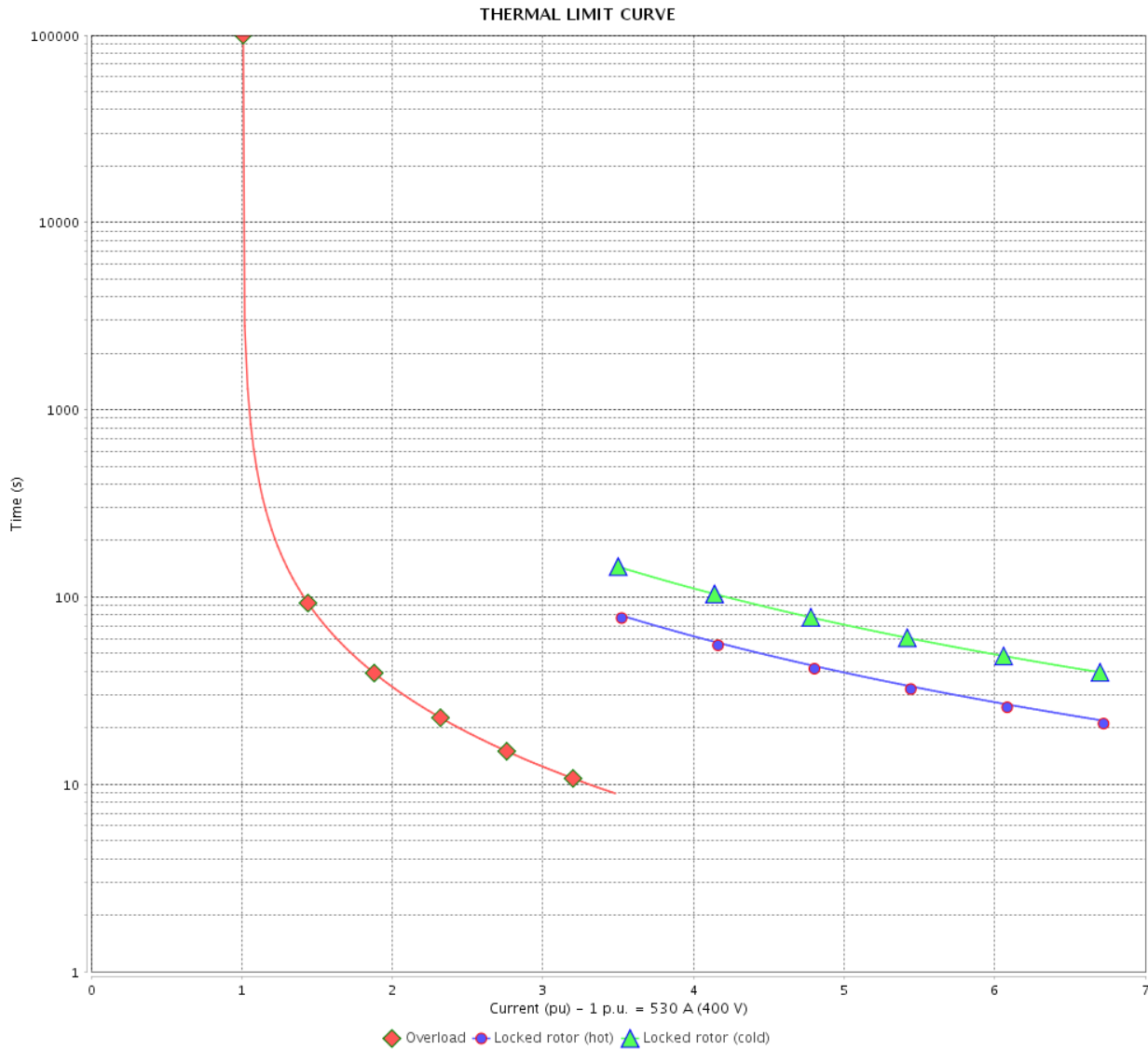
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THERMAL LIMIT CURVE

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 : 12408388
 Catalog # : 50018XT3G586/7

Performance : 415 V 50 Hz 4P IE3

| | |
|-----------------------------|--------------------------------------|
| Rated current : 516 A | Moment of inertia (J) : 256 sq.ft.lb |
| LRC : 7.3 | Duty cycle : Cont.(S1) |
| Rated torque : 1410 ft.lb | Insulation class : F |
| Locked rotor torque : 229 % | Service factor : 1.00 |
| Breakdown torque : 260 % | Temperature rise : 105 K |
| Rated speed : 1490 rpm | Design : B |

Heating constant

Cooling constant

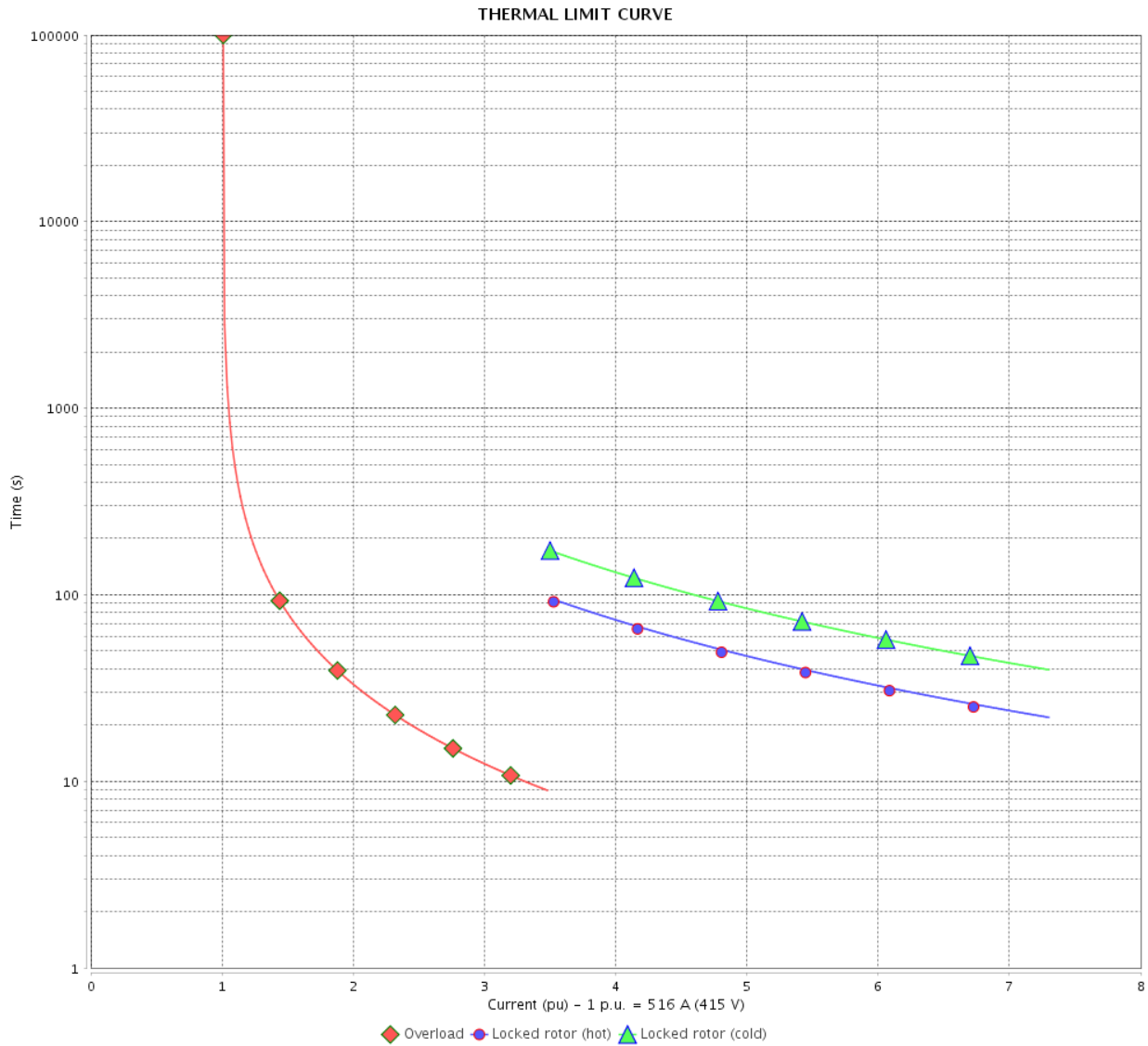
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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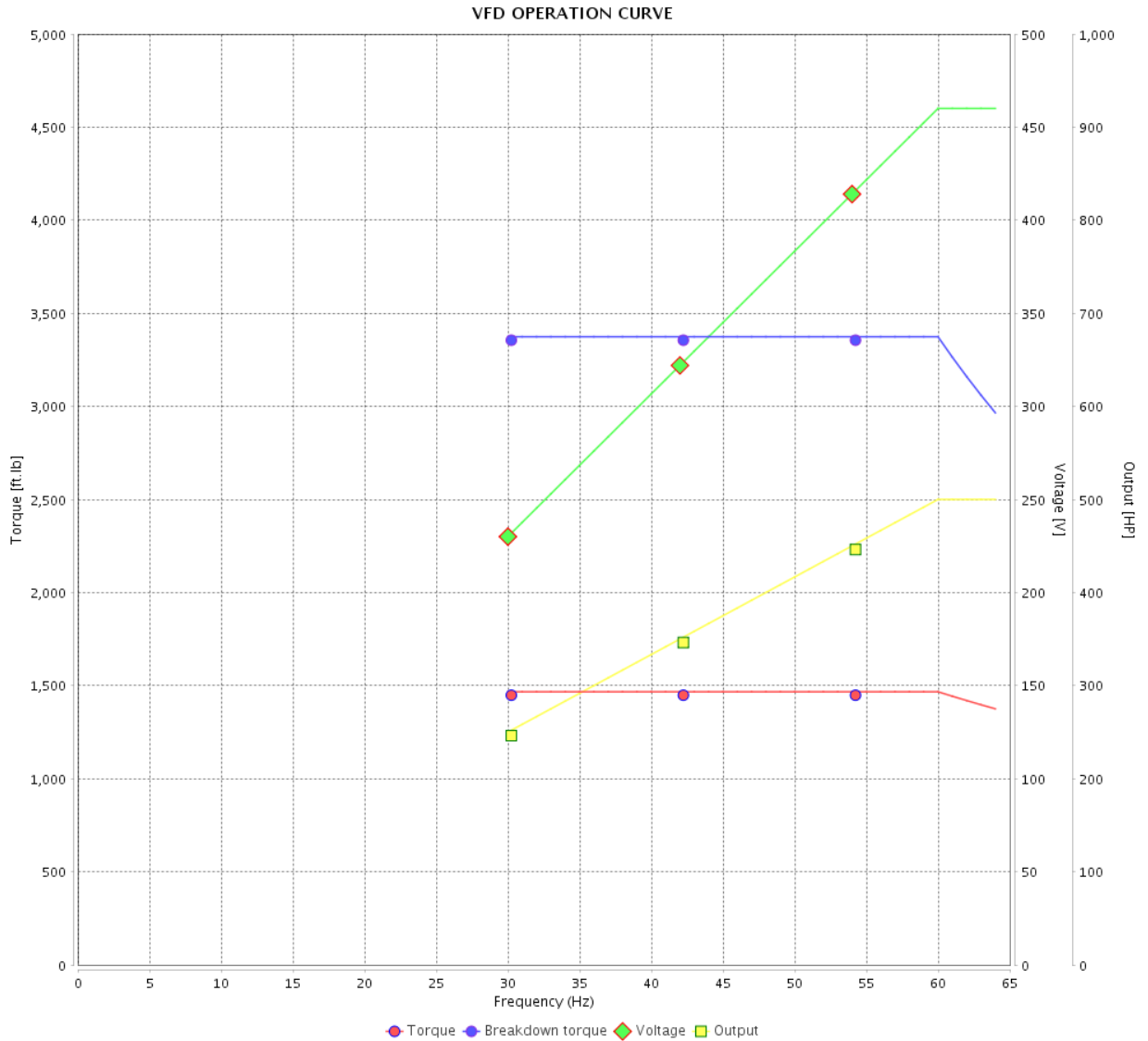
VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase
 Product code : 12408388
 Catalog # : 50018XT3G586/7



Performance : 460 V 60 Hz 4P

| | | | |
|---------------------|--------------|-----------------------|----------------|
| Rated current | : 568 A | Moment of inertia (J) | : 256 sq.ft.lb |
| LRC | : 6.3 | Duty cycle | : Cont.(S1) |
| Rated torque | : 1470 ft.lb | Insulation class | : F |
| Locked rotor torque | : 210 % | Service factor | : 1.00 |
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| Rated speed | : 1790 rpm | Design | : B |

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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



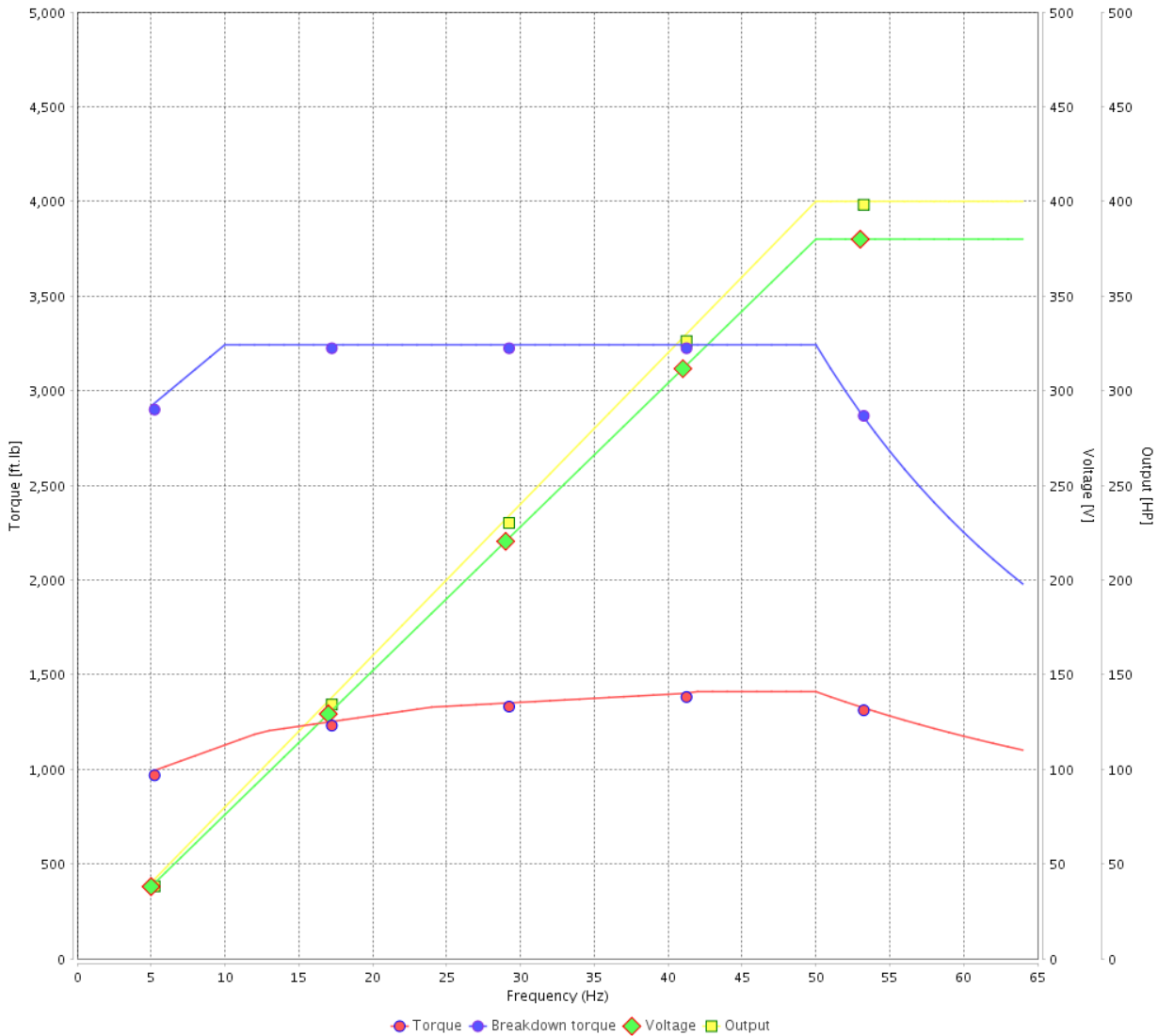
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12408388

Catalog # : 50018XT3G586/7

VFD OPERATION CURVE



Performance : 380 V 50 Hz 4P IE2

| | | | |
|---------------------|--------------|-----------------------|----------------|
| Rated current | : 560 A | Moment of inertia (J) | : 256 sq.ft.lb |
| LRC | : 6.0 | Duty cycle | : Cont.(S1) |
| Rated torque | : 1410 ft.lb | Insulation class | : F |
| Locked rotor torque | : 200 % | Service factor | : 1.00 |
| Breakdown torque | : 229 % | Temperature rise | : 105 K |
| Rated speed | : 1490 rpm | Design | : B |

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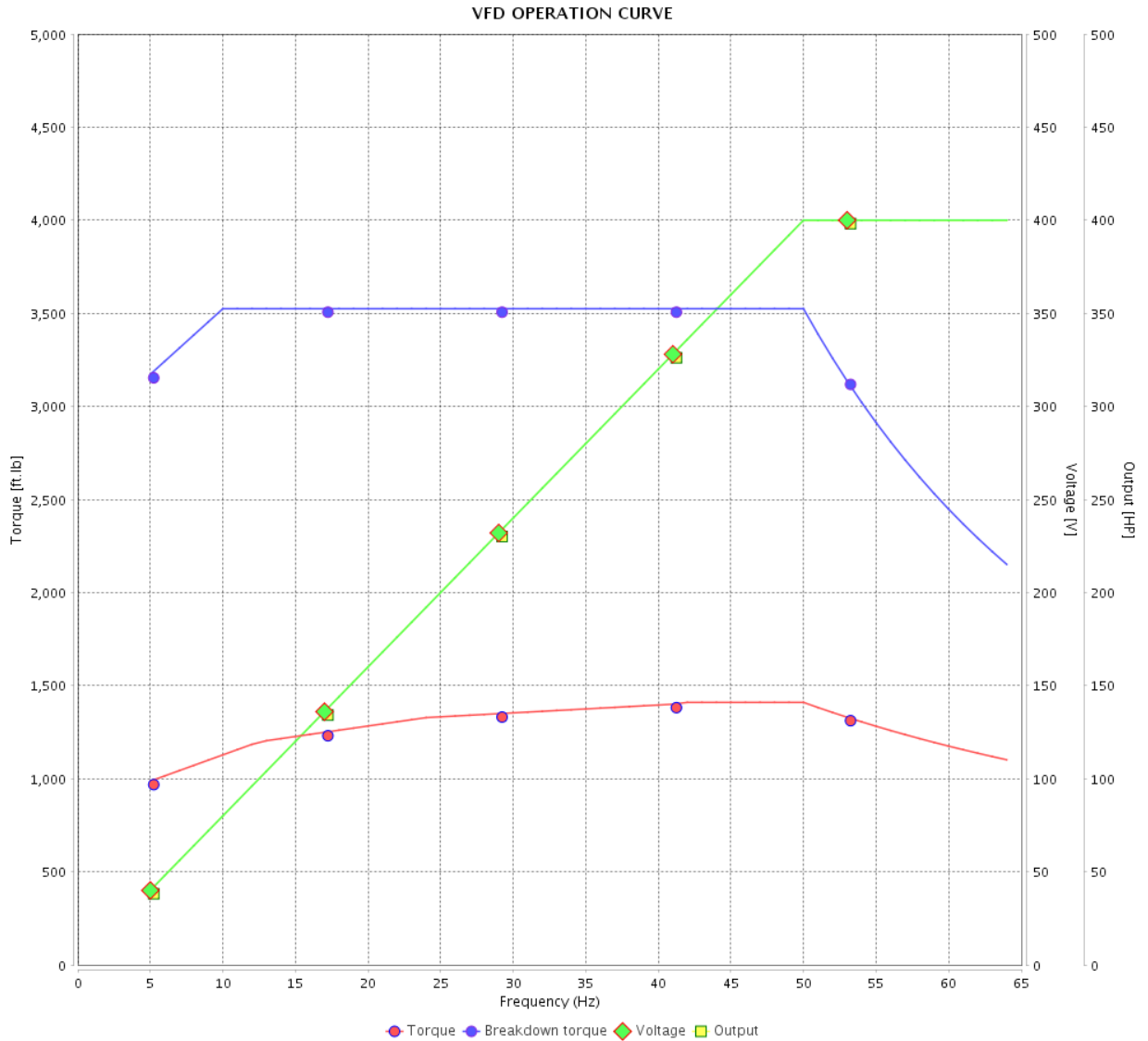
VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase
 Product code : 12408388
 Catalog # : 50018XT3G586/7



Performance : 400 V 50 Hz 4P IE3

| | | | |
|---------------------|--------------|-----------------------|----------------|
| Rated current | : 530 A | Moment of inertia (J) | : 256 sq.ft.lb |
| LRC | : 6.7 | Duty cycle | : Cont.(S1) |
| Rated torque | : 1410 ft.lb | Insulation class | : F |
| Locked rotor torque | : 220 % | Service factor | : 1.00 |
| Breakdown torque | : 250 % | Temperature rise | : 105 K |
| Rated speed | : 1490 rpm | Design | : B |

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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



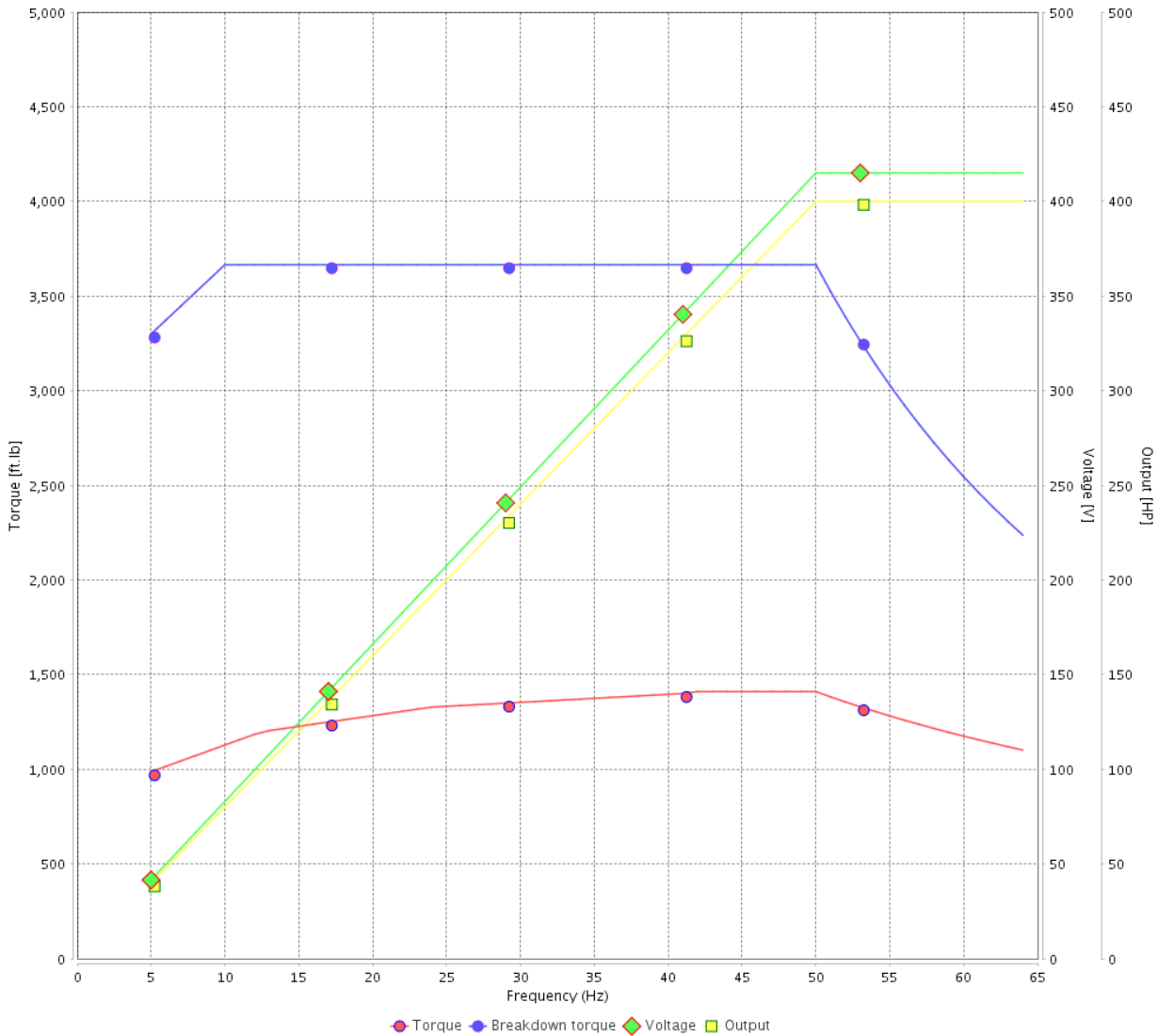
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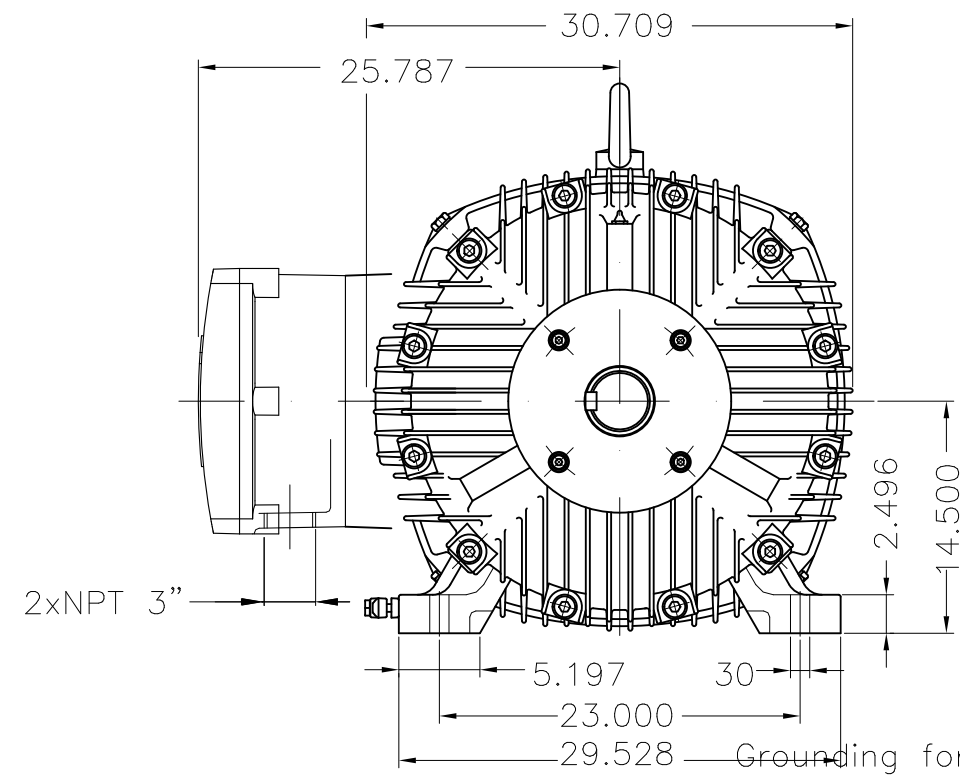
VFD OPERATION CURVE



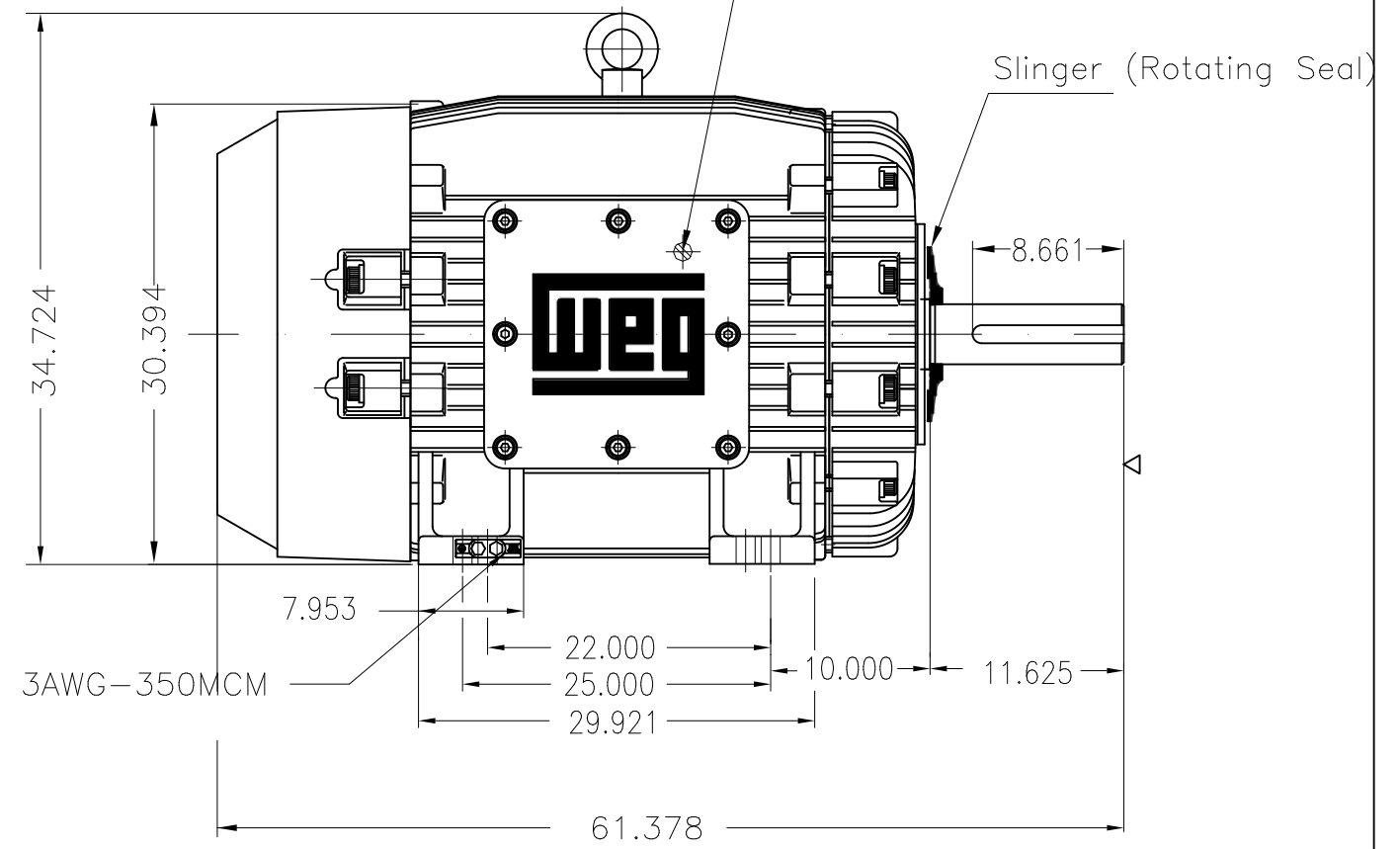
Performance : 415 V 50 Hz 4P IE3

| | | | |
|---------------------|--------------|-----------------------|----------------|
| Rated current | : 516 A | Moment of inertia (J) | : 256 sq.ft.lb |
| LRC | : 7.3 | Duty cycle | : Cont.(S1) |
| Rated torque | : 1410 ft.lb | Insulation class | : F |
| Locked rotor torque | : 229 % | Service factor | : 1.00 |
| Breakdown torque | : 260 % | Temperature rise | : 105 K |
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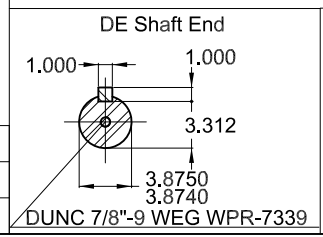
| Rev. | Changes Summary | Performed | Checked | Date |
|--------------|-----------------|-----------|-----------------|----------|
| | | | | |
| Performed by | | | Page 22 / 22 | Revision |
| Checked by | | | | |
| Date | 12/04/2022 | | | |



Grounding for leads 35-120 mm² / 1-4/0 AWG



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



Color RAL 5009
 Painting plan 202P
 Mounting B3R(D)

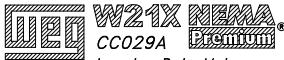
500 HP 04 Poles 60 Hz A

| ECM | LOC | SUMMARY OF MODIFICATIONS | EXECUTED | CHECKED | RELEASED | DATE | VER |
|----------|-----------|--|---------------------|---------|----------|------|-----|
| EXECUTED | PIRWBUSER | THREE PH. MOTOR EXPLOSION PROOF PREM. EFF. | | | | | |
| CHECKED | | FRAME 586/7T 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 50018XT3G586/7
 MADE IN BRAZIL
 12408388

| | | | |
|----------------------|------------|-----------------|--------|
| PH 3 | FR 586/7T | HP(kW) 500(370) | Hz 60 |
| V 460 | A 568 | RPM 1790 | |
| NEMA NOM. EFF. 96.2% | | INS CL F ΔT | K IP55 |
| PF 0.85 | DUTY CONT. | | CODE G |
| ENCL. TEFC | SF 1.00 | SFA | |
| AMB 40°C | DES B | | |
| | | | |

| 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 |

→ 6322-C3(60g) MOBIL POLYREX EM
 → 6319-C3(45g) 5138 h

ALT 1000 m.a.s.l 4786 Lbs